

CANADIAN UNITED MINERALS INC.

**Assessment Report on 2001 Exploration of the
Horn 1 - 18 Claims (grant # YC03762 - 79),
Tombstone Mountains,
Yukon Territory.**

Latitude 64° 27' N
Longitude 138° 38' W

094299

N.T.S. 116 B-7

**Diamond Drilling, Geological Surveys
Dawson Mining District**

D.Tenney

**Work done: 1 April 2001
30 Sept. 2001**

B.Sc. D.I.C. M.I.M.M. C.Eng.

February 27/2002.



**Mine Geology Services
Whitehorse, Yukon Territory.**

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 7200.

M. B.
Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

CONTENTS

- 1.0 Summary.**
- 2.0 Property, Location and Access.**
- 3.0 History of Previous Work.**
- 4.0 Geology.**
- 5.0 Work by Canadian United Minerals, 2001.**
 - 5.1 Main Showing (M – 1)**
 - 5.2 Bullseye Zone (M – 2)**
 - 5.3 Magnetic anomaly M – 3**
 - 5.4 Pump Zone (M – 4)**
 - 5.5 Magnetic anomaly M – 5**
 - 5.6 Camp Showing (M – 6)**
 - 5.7 Magnetic anomaly M – 7**
 - 5.8 Cirque Fault**
 - 5.9 Trenching**
 - 5.10 Diamond drilling**
 - 5.11 Geological mapping**
- 6.0 Permitting.**
- 7.0 Conclusions.**
- 8.0 Recommendations.**
- 9.0 Bibliography.**

**YUKON ENERGY, MINES
& RESOURCES LIBRARY**
P.O. Box 2703
Whitehorse, Yukon Y1A 2C8

APPENDICES

- 1. List of Horn claims from mining recorders office.**
- 2. Yukon Minfile 116 B147 (Marn Deposit).**
- 3. MLUR letter to Hugh Copland with 2001 wildlife log and exploration statistics.**
- 4. Horn rock codes for drill logs, sections and maps, 2001.**
- 5. Horn diamond drill hole logs HS00-08 and HS01-09 to HS01-36.**
- 6. List of diamond drill holes 1999 - 2001.**
- 7. Assay reports.**
- 8. List of intersections 1999 - 2001.**
- 9. Water Sampling Report – Laberge Environmental Services.**
- 10. Exploration costs from Sunshine Bookkeeping records.**
- 11. Statement of qualifications.**
- 12. Drawings.**
 - 1. Property location map.**
 - 2. Claim map.**
 - 3. Diamond drill cross section 70E.**
 - 4. Diamond drill cross section 75E (north).**
 - 5. Diamond drill cross section 75E (south).**
 - 6. Diamond drill cross section 84.5E.**
 - 7. Diamond drill cross section 90E.**
 - 8. Diamond drill cross section 95E.**
 - 9. Diamond drill cross section 189E.**
 - 10. Diamond drill cross section 190E.**
 - 11. Diamond drill cross section 210E.**
 - 12. Diamond drill cross section 240E.**
 - 13. Diamond drill cross section 270E.**
 - 14. Magnetometer survey (1998) with anomaly locations.**
 - 15. Geological map including 2001 mapping.**
 - 16. Cirque Zone float locations.**
 - 17. Diamond drill hole plan.**
 - 18. Main Showing - topography.**

1.0 Summary

Canadian United Minerals staked the Horn claims in March 1997 following a program of geochemical stream sediment sampling and prospecting that led to the discovery of the Main Showing. The property comprises twenty two claims staked in two blocks, a larger block of eighteen claims and a smaller block of four claims about one kilometer further north. These claim blocks lie in the Dawson Mining District about fifty kilometers northeast of Dawson City, Yukon Territory (claim sheet 116 B-7) on the north boundary of the Core Area of the proposed Tombstone Territorial Park. An order-in-council now prohibits claim staking in the Core Area and in the Study Area surrounding the Horn claims to the north. However, the owners of claims staked prior to this order retain the right to work any claims they own inside the Study Area. Canadian United Minerals holds a class III mining land use authorization LQ00041 that allows specified work, including diamond drilling, until the 2004 field season.

A glacial valley, cirque and terminal moraine surrounded by rugged nearly 2,000 meter high peaks dominate the topography of the claim blocks. The area, which is one of alpine tundra, lies in the Cloudy Range, a part of the Ogilvie Mountains. The overburden is mainly glacial moraine with extensive talus on mountainsides. Soil is thin to non-existent over much of the claim group and vegetation, where present, comprises mainly moss, lichen and grasses. There are no trees.

Normal access to the property is by helicopter from Dawson. There is no road access, but a snowmobile trail follows a route along the west branch of the Upper Blackstone River, starting at a point on the Dempster Highway near Chapman Lake. The company plans to apply for summer trail access along this same route during 2002.

Previous work in the area dates back one hundred years to include the discovery of silver veins at Spotted Fawn Gulch in 1901 and the Mam deposit in 1914. This deposit, which is similar to the Horn, contains an estimated 275,000 to 330,000 tonnes grading 8.6 g/t gold (0.25 oz/t), 1.0% copper, and 17 g/t (0.50 oz/t) silver. It lies ten kilometers (six miles) to the northwest of the Horn and provides a good exploration model for work on the property.

The main group of eighteen claims covers part of a roof pendant of meta-sediments of Devonian to Jurassic age enclosed by Tombstone plutonic rocks. Within the sediments are layers of Permian Tahkandit limestone with interbedded siliclastic sediments. Near the Main Showing, this package of rocks is apparently about 150m (500 feet) thick, but this is not a true thickness as the rocks are isoclinally folded. Geological mapping of float and outcrop defined at least three main limestone "layers". These are named the "upper", "middle" and "lower" limestone. The limestone layers strike sub-parallel to the intrusive contacts over a mapped east to west strike distance of about 800 meters (2,625 feet). The "lower" and probably also the "middle" limestone layers represent the noses of two isoclinal folds that are assumed to be synclinal. Axial planes dip to the north at a high angle. The "upper" limestone may represent the nose of another isoclinal fold or may be one limb of a more open fold that also has a steep dip to the north. Grey siliceous argillite of presumed Devonian-Mississippian age crops out below the "lower" limestone, and siliceous Jurassic meta-sediments above the "upper" limestone. This sequence of rocks and the limestone in particular, is cut to the east by the near vertical Cirque Fault. No Tahkandit limestone was mapped east of the fault but it may be buried beneath younger rocks. Calc-silicate and pyrrhotite skarns develop at or near the limestone contacts. The skarn zones contain gold and copper, with traces of silver, lead, zinc, arsenic and bismuth. The Cirque Zone, which has been identified from rusty float only, could either be a skarn deposit or a sulphide rich vein hosted by the Cirque Fault. Gold bearing float found at several locations on the property is associated with skarns in the "lower", "middle", and "upper" limestones. Feldspar porphyry dykes of the Tombstone Plutonic Complex cut the sediments and some of the intrusives themselves. Dykes are associated with the skarns and gold mineralization in the Main Showing and the Pump Zone.

A total field magnetic survey conducted by Shawn Ryan in 1998 located numerous magnetic anomalies of which the company selected seven for further exploration. The large anomaly south of the baseline (M-7) turned out to be magnetic intrusive while the remainder (M-1 to M-6) probably represent pyrrhotite bearing skarn, although this has not been proven in all cases. Two of these zones (M-1, the Main Showing, and M-4, the Pump Zone) produced samples of visible gold. A line of chip samples across the Main Showing on section 0+12W returned an average calculated gold grade of 58.9 gm/tonne (1.72 oz/ton) over a sampled width of 5.94m (19.5 feet). A similar set of samples on

section 0+00 E/W, taken in 2001, returned a grade of 114.1 gm/tonne (3.33 oz/ton) over a width of 3.34m (10.9 feet). Samples of gossan float taken north of the baseline near line 400E, returned some spectacular gold grades. The float, which is obviously of local origin, occurs in a talus cone developed where the Cirque Fault cuts the mountainside about half a kilometer northeast of camp. It provides the best exploration target remaining on the property.

Work completed during the 2001 summer field season comprised mainly 1,039m (3,409 feet) of AQT surfaced drilling using a Hydracore Prospector lightweight hydraulic drill. The drill intersected visible gold in three drill holes on magnetic anomaly M-4 (Pump Zone).

The property is in the exploration stage of development, however, some metallurgical and acid base accounting test work is ongoing, and there is a plan to excavate a small bulk sample for metallurgical testing off site, possibly in the year 2002. This will lead into a pre-feasibility study on the economic viability of a small open pit or underground mining operation on the Main Showing. Exploration to locate the Cirque Fault Showing and to test targets deeper in the pendant is warranted.

The company plans to make an application under the Territorial Lands Act for a summer road access for light vehicles along the valley of the West Branch of the Upper Blackstone River.

This report is a summary of work done primarily during the 2001 field season, but comments on earlier work are included where necessary.

Units used, including the grid coordinates, are metric with imperial values quoted in brackets.

2.0 Property, Location and Access

Canadian United Minerals staked the Horn property in March 1997 under the authority of the Yukon Quartz Mining Act. The claims are recorded with the Dawson mining recorder as Horn 1 - 22, with grant numbers YC03762 to YC03783 (appendix 1). The property comprises a total of twenty two claims in two blocks, a larger block of eighteen claims that has a provisional expiry date of March 10th 2016 (including 2001 assessment work), and a smaller block of four claims about one kilometer further north, which expires on March 10th 2004 (drawing 2). These claim blocks are in the Dawson Mining District about fifty kilometers northeast of Dawson City, Yukon Territory, on claim sheet 116 B-7 (drawing 1). The core area of the proposed Tombstone Territorial Park lies to the south and to the east of the claims. An order-in-council prohibits claim staking in the Core Area of the proposed park and in the Study Area that surrounds the claims to the north. However, claim owners have the right to explore and work any claims they own inside the Study Area that were staked prior to this order.

The Tombstone Range is one of Pleistocene mountain glaciation and the dominant geographic feature of the claim area is a blind, steep sided, east-west trending glacial valley with associated cirques and knife-edge ridges. Topography is rugged and elevations on the property cover a vertical range from about 1,300 to 2,000 meters. The main pyrrhotite showing (trench 99-01), however, is on relatively gently sloping ground about 100 meters or so north of the camp buildings and helicopter-landing pad.

Camp supplies come from a base at Dawson City by helicopter. There are no roads to the property, but there is a snowmobile route along the valley of the West Branch of the Upper Blackstone River. The route is about forty six kilometers (thirty miles) long and starts at a point on the Dempster Highway near Chapman Lake. The company plans to apply for permission to construct and use a summer trail along this route in 2002.

3.0 History of Previous Work

Previous work in the area dates back one hundred years to include the discovery of high grade silver veins at Spotted Fawn Gulch in 1901, and the skarn type Marn deposit in 1914. The Marn deposit lies ten kilometers (six miles) to the northwest of the Horn. Estimates indicate that it contains 275,000 to 330,000 tonnes (303,000 to 364,000 tons) of mineralization grading 8.6 g/t gold, (0.25 oz/t) 1.0% copper, and 17 g/t silver (0.50 oz/t) (Yukon Minfile - appendix 2). The mineralogy and geological structure of the Marn are comparable with the Horn claims.

L.H. Green mapped the Tombstone area for the Geological Survey of Canada in 1961 and D. J. Tempelman-Kluit did further mapping in 1964 as part of his Ph. D. thesis. The Tombstone Range generated considerable interest in the 1970's with the discovery of extensive deposits of low grade uranium in the region. More recent work includes additional geological mapping, and a regional stream sediment survey published by the Geological Survey of Canada as open file #2365. Bremner, 1994, summarizes prior work as part of a review of the mineral potential of the area.

During 1998 Canadian United carried out 5.1 km of magnetometer surveying over the Horn claims on regular grid lines from 25 to 50m apart, and dug twelve shallow trenches (T98-01 to T98-12), which in most cases encountered bedrock. Work was concentrated on the Main Showing and the coincident magnetic anomaly. Closely spaced chip sample lines across this showing assayed 40.3 gm/tonne gold over 2.44m (1.18 oz/ton over 8.0 feet), 17.3g/tonne over 3.66m (0.50 oz/ton over 12.0 feet) and 119.7 gm/tonne over 1.22m (3.49 oz/ton over 4.0 feet). The magnetometer survey defined numerous magnetic anomalies seven of which the company selected as promising enough for further follow-up.

The 1999 summer exploration program on the Horn claims comprised diamond drilling, geological mapping and limited magnetometer surveys. The company drilled an aggregate of 114.8m (377 feet) in ten "ex" diamond drill holes using an old x-ray drill. All holes were collared inside the trench over the Main Showing. Native gold was visible in four of these holes. The best assay came from 5.12m to 6.40m down hole HS 99-11, which assayed 376.9 gm/tonne over 1.28m (10.99 oz/ton over 4.2 feet).

The 2000 summer exploration comprised eight diamond drill holes with an aggregate depth of 359m (1,178 feet), seven shallow trenches and 5km of horizontal loop (MaxMin) electromagnetic surveying. Four of seven holes under the Main Showing intersected visible native gold. The Hydracore Prospector hydraulic drill used to do this work was far superior to the x-ray drill used the previous year, but work was hampered by a lack of spare parts for the water pumps, which resulted in significant downtime.

4.0 Geology

Bremner (1994) and many of the publications listed in the bibliography to his report describe the regional geology of the Tombstone Mountains region.

The Horn claims cover a package of sedimentary and intrusive rocks in a thrust sheet bounded above and below, respectively, by the Robert Service and Tombstone Thrusts. These thrusts are low angle, dip more or less to the south, and have a northerly movement. The same thrust sheet also hosts the mineral deposits in the Keno Hill silver camp further to the east. Neither thrust crops out on the property, but the Tombstone Thrust may exist at depth if it is not occluded by the intrusives. The Robert Service Thrust crops out further to the south but over the Horn claims is eroded. These two thrusts were isoclinally folded before the intrusion of the Tombstone plutonic rocks took place.

On the Horn claims, the thrust sheet hosts a narrow east to west trending roof pendant of Devonian to Jurassic age meta-sedimentary rocks enclosed on all sides by Cretaceous quartz monzonite intrusives that belong to the Tombstone Plutonic Suite. According to mapping by the Geological Survey of Canada, the pendant is about 600 m wide and over three kilometers long. The sediments within the pendant strike east to west, parallel to the intrusive contacts, and dip at about 70 degrees to the north. The Horn claims cover the western end of this pendant. The sedimentary package comprises Devono-Mississippian siliceous argillite overlain in turn by Permian Tahkandit limestone, followed by siliceous schists of Jurassic age.

Recent geological mapping on the property by Canadian United suggests that the Permian sedimentary sequence contains three bands of limestone, an "upper", a "middle", and a "lower" band. The "lower" and probably the "middle" limestone represent the noses of isoclinal folds, but the "upper" limestone may be monoclinial. The limestones are extensively recrystallized to form marble and locally patches of calc-silicate and pyrrhotite skarn develop on or near the limestone contacts. The high grade gold mineralization in the main showing is associated with one such lens of pyrrhotite skarn. The total exposed width of the mapped limestone, including any intercalated quartzite, is about 150m (500 feet), and the package has a mapped strike length of over

700m (2,300 feet). The limestones appear to pinch out to the west near grid line 600+00W and disappear under terminal moraine and talus to the east near grid location 300+00E. An steeply easterly dipping normal (extensional) fault, the Cirque Fault, that cuts both the sedimentary and igneous rocks of the area, appears to truncate the limestone at surface a short distance off the east end of the exploration grid at about 375+00E. On the east side of the fault (hangingwall side) are extensive exposures of slightly rusty siliceous rocks of presumed Jurassic age. The Jurassic rocks may overly bodies of "blind" Permian limestone that are in contact with the intrusive but do not reach surface. If such limestones exist, they are favorable locations for skarn formation and gold mineralization. The "lower" limestone represents the tip of a tight isoclinal fold that is probably synclinal (i.e. not an overturned anticline). This fold is well defined by diamond drilling and geological mapping. The lower limestone does not appear to have substantial potential to for mineralization down dip because the isoclinal folding does not allow the limestone to make contact with the main mass of the Tombstone intrusives. The mineralization discovered in the Pump Zone (magnetic anomaly M-4) is probably associated with a local dyke that did not generate large skarn zones. Other small bodies of skarn associated with the "lower" limestone, although often auriferous, appear to be local in extent. However, a drill target exists between the west end of the Pump Zone on section 189E and the single chip sample assay of 7.54 gm/tonne (0.22 oz/ton) in trench T00-05 on section 100E. The untested strike length is about 90m (270 feet).

The projected down dip extension of the "middle" and "upper" limestones is undefined, but they may extend down dip far enough to terminate against the intrusive contact. Such contacts between the limestone and the intrusive are favourable exploration targets. The possibility that the "middle" or the "upper" limestone pinches out or is faulted out (on the Tombstone Thrust for instance), or is folded away from the intrusive are possibilities that must be taken into account. The skarns contain green and brown calc-silicates and sometimes-massive to semi-massive pyrrhotite. The gold mineralization is associated with these skarns and particularly with the pyrrhotite. Geological mapping shows that feldspar porphyry dykes are associated with skarn at several locations on the property. The narrow dyke that cuts the main showing is skarnified in places, but the larger Tombstone intrusions do not appear to be.

The main showing is in the "middle" limestone layer close to the contacts with the surrounding siliclastic rocks. The mineralization includes massive to semi-massive

pyrrhotite along with pyrite, quartz, and calc-silicate minerals. Less abundant minerals include calcite, epidote, chalcopyrite, bismuth (bismuthinite?), fluorite, and there are traces of arsenopyrite, sphalerite and galena. The showing contains relatively high grade gold which is visible in drill core and in samples of trench material cut with a diamond saw.

Typically, skarn deposits form by alteration and metasomatism of pre-existing calcareous rocks. Skarn formation occurs along the contacts between the calcareous rocks and surrounding intrusives, often where the carbonates are either partially or totally enclosed by the intrusive. This usually results in the formation of a roof or flank pendant. Skarnification of the limestone is generally strongest nearer to the intrusive contacts and diminishes away from them. The heat needed to initiate skarnification comes from the intrusive.

Geological models for the structure and mineralogy of the Horn property include the Mam and the Little Chief deposits. Both deposits comprise exoskarn and sediments that lie in flank pendants at the margin of large bodies of acid plutonic rock. The mineralogy of the Mam deposit (Brown and Nesbitt 1987) is very similar to that of the Horn as they are both pyrrhotite/calc-silicate skarns that contain high grade gold. The Little Chief, although it is a copper-bearing magnetite serpentine skarn does, however, contain small but economically important amounts of gold. Whitehorse Copper Mines Ltd. mined the Little Chief, which is in the Whitehorse Copper Belt, to recover over five million tonnes of ore. The deposit provides a good exploration model since pendants of a similar type may well develop on the Horn claims. If the Horn sedimentary inlier is pendant shaped, rather than flat bottomed, and contacts with the surrounding intrusives dip at sixty degrees, the sediments, including the limestones, may, if not otherwise interrupted by folding, faulting, or facies changes dip down to a depth of about 600m (2,000 feet) or more where they are projected to terminate against the intrusive. No exploration drilling on the Horn claims has reached a greater depth than about sixty meters (two hundred feet) from surface, the deepest point at which hole HS 01-03 intersected pyrrhotite skarn. Diamond drilling is needed to test for gold-bearing skarns in these deeper target zones. The Hydracore drill has insufficient power to drill holes deep enough for this purpose and a larger machine will be needed.

5.0 EXPLORATION TARGETS

5.1 MAIN SHOWING (magnetic anomaly M-1)

Work during 2001 was limited to a line of chip samples taken along the bedrock surface approximately perpendicular to the strike of the zone on line 0+00E/W. A small quantity of explosive was used to obtain one of the samples. The average calculated grade returned by this sampling was 114.1 gm/tonne gold over a horizontal width of 3.34m (3.33 oz/ton over 10.9 feet). As the sample line was approximately perpendicular to the strike the true horizontal width is also about 3.94 m.

5.2 BULLSEYE (magnetic anomaly M-2)

This anomaly is 75m (246 feet) east of the Main Showing (magnetic anomaly M-1). It is a larger anomaly and it, too, is probably a reflection of magnetic pyrrhotite in the bedrock. An anomalous gold value of 1,540 ppb occurs in soil nearby. Seven short drill holes (HS01-30 to HS01-36) collared between trenches 99-03 and T00-03, and two deeper holes (HS01-09 and HS01-10) intersected mixed limestone and quartzite but no skarn or significant amounts of pyrrhotite, or any other magnetic material (drawings 4 & 6). A large cobble of coarse grained pyrrhotite excavated from rusty overburden in trench T00-03 suggests that the anomaly reflects pyrrhotite in the bedrock. However, the bedrock source of the boulder, which weighed about five kilograms, was surprisingly not located either in the trenches or in the drill holes.

5.3 MAGNETIC ANOMALY M-3

Drawing 14 shows the location of magnetic anomaly M-3, and drawing 13 shows a vertical cross section along grid line 270 E. The anomaly lies at the foot of a talus cone and the only available drill sites were on the anomalies south (footwall) side. Hole HS01-20 is not a good test of this anomaly as it was apparently drilled down dip mostly

in siliceous grey argillite. A small length of limestone but no pyrrhotite was intersected deeper in the hole.

5.4 PUMP ZONE (magnetic anomaly M-4)

Thirteen AQT diamond drill holes were completed on the Pump Zone in 2001 (drawings 10 – 13). The skarn and associated gold mineralization are related to a narrow monzonitic/syenitic dyke. Three different rock types host the gold mineralization, pyrrhotite skarn, quartzite, and intrusive, which makes interpretation of the ore outlines problematic. The down dip potential in this area is limited as the adjacent limestone forms the nose of a well defined isoclinal fold, which does not reach to a depth of much more than fifty meters (164 feet).

5.5 MAGNETIC ANOMALY M-5

Diamond drilling on sections 75E, 90E, and 95E intersected short lengths of limestone before passing into quartzite. A narrow band of calc silicate skarn developed at the contact between the limestone and the quartzite, but no pyrrhotite mineralization or significant gold grades were intersected

Trench T00-05 (0+12S, 100+00E)

Trench T00-05 was dug at the site of old pit 98-06 near the lower limestone/siliceous argillite contact on line 100+00E. The best grade sample across a band of rusty gossan in this trench returned a grade of 7.54 gm/tonne over a length one meter (sample number 23555 in appendix 7). Nearby hole HS01-13 intersected minor skarn and a small amount of molybdenite, but no pyrrhotite or gold, which suggests that the pyrrhotite lenses are limited in extent. This is in agreement with geological mapping and other drilling on magnetic anomalies M-5 and M-6 (Camp Showing) in the area between camp and 100E near the baseline. The occurrence of pyrrhotite in this area is limited to small pods of skarn that are sporadically mineralized with gold. The best remaining target on the lower limestone contact is between magnetic anomalies M-4 and M-5. Gold mineralization is present at both ends of an untested strike length of limestone from 100E to 189E. The gold at the west end is in trench T00-05 and that at the east end in

diamond drill holes on section 190E, where gold was visible in the drill core from hole HS01-26. Rather surprisingly, the host rock was quartzite. The area of talus between these encouraging results could not be drilled owing to the small size of the Hydracore drill, and its inability to penetrate such rubbly overburden.

Trench T00-06 (0+20N, 70+00E)

Trench T00-06 was dug at the site of old trench 98-05 near the lower limestone/siliceous argillite contact. Large boulders of pale grey marble at this location prevented completion of the trench, although some rusty bedrock was exposed. A large boulder of mineralized pyrrhotite skarn lying a short distance to the east of this trench assayed 47.9 g/t gold (1.40 oz/t), and magnetic anomaly M-5 lies nearby at 0+75E, 0+25N. Peak readings are 200 to 400 gammas above background. This anomaly has a short strike length, about 75 m (246 feet) and may correlate with the large piece of massive pyrrhotite float noted above, or with magnetic dyke material encountered in drill hole HS 01-28.

5.6 CAMP SHOWING (magnetic anomaly M-6)

The Camp Showing lies in a narrow exposure of "lower" limestone behind the camp. At this point the width of the limestone band is much reduced because the axis of the isoclinal fold brings the limestone close to surface. The magnetic anomaly is of limited extent and offers further evidence that the pyrrhotite skarns in this vicinity, (i.e. near the baseline between 0+00 and 100+00E) and any gold mineralization they may contain, are likely to be of local extent.

5.7 MAGNETIC ANOMALY M-7

An extensive magnetic anomaly, M-7 (drawing 14), that has peak readings of over 2,000 gamma above local background, lies on the exploration grid south of the baseline. It trends from east to west over a surveyed distance of about 600 meters, but it is probably more extensive than this. Geological mapping revealed boulders and outcrop of magnetic "monzonite" at several locations along the axis of this anomaly. The rock contained small amounts of disseminated pyrrhotite and weathered a light rusty color.

The 58,250 gamma contour approximately defines the contact between the intrusive and the adjacent sediments to the north.

5.8 CIRQUE FAULT

The most promising discovery made during the 2001 field season resulted from prospecting off the east end of the 1998 line cutting grid, approximately at the location of line 400 east. Numerous pieces of gold bearing gossanous float were found on a talus cone derived from a small gully on the north side of the grid (drawing 16). The gully, which can be clearly seen on air photographs, hosts the Cirque Fault, which extends across the cirque from north to south. The fault is a late fault that cuts both sediments and intrusive rocks. It dips steeply to the east, and the hangingwall (east) side is assumed to be downthrown making the fault extensional (normal). Cobbles of marble, and green and brown skarn also occur in the talus cone and in outcrops in the gully. The association of gold mineralization in this geological environment suggests another "distal" type pyrrhotite skarn replacing limestone similar to that found in the Main Showing. However, the possibility of a vein hosted by the Cirque Fault must be considered. Further to the east in this same package of rocks, the silver veins of the Keno Hill camp occur in fault veins. The upper part of the Cirque Fault gully is currently the most promising exploration target area on the property.

5.9 TRENCHING

No trenches were dug during the 2001 field season, as the Kubota backhoe was not operational. Trenches T98-10, T00-01, T00-02, T00-03, T00-04, T00-05, T00-06, and T00-07 were mapped and, where appropriate, sampled. Samples from trenches T98-10, T00-01 (the Main Showing), and T 00-05 returned significant assays.

The calculated average grade of samples over the main showing, approximately along picket line 0+00 E/W at 108+00N, was 114.1 gm/tonne over a sampled width of 3.94 m (3.34 oz/ton over 10.9 feet). Drawing 18, a contour plan around the main trenching, which will serve as a basis for future open pit design or underground mining, shows this sample line ("F" on the plan and appendix 8). The sampled width represents the true horizontal width of the deposit.

5.10 DIAMOND DRILLING

Twenty six drill holes were completed during the 2001 summer field season testing magnetic anomalies M-2 (7 holes), M-3 (one hole), M-4 (13 holes) and M-5 (5 holes). Aggregate depth amounted to 1,039.05 m (3,409.2 feet). A Hydracore portable hydraulic drill equipped to recover AQT (AQ thinwall) core was employed. The drilling operation was more efficient than in previous years largely because the crew were more familiar with operating conditions on the property, a reliable water supply pump was purchased, and critical spare parts were stocked on site.

5.11 GEOLOGICAL MAPPING

Geological mapping was limited to those trenches not mapped in 2000, and the area south of magnetic anomaly M-4, the Pump Zone (drawing 15), where more detailed information was obtained to guide the diamond drilling program.

6.0 Permitting

Exploration on the Horn claims is governed by Mining Land Use Regulations permit LQ00041, which allows specified work, including diamond drilling, up to the end of the 2004 field season. A wildlife log and a blasting log are included with a letter to Hugh Copland, Acting Chief Land Use, which is attached to this report (appendix 3). Wildlife is sparse on the property and blasting was very limited. No trenching or trail construction took place in 2001. Drill set ups were dug by hand and many of them were recontoured (see map and list attached to Copland letter in appendix 3). Water Sampling by Laberge

Environmental Services (appendix 9 – includes summary of previous years) showed no change from the low level readings recorded last year.

7.0 Conclusions

Development of the Horn property is in the mature exploration phase, and some preliminary feasibility work is warranted. The property encompasses one small but high grade deposit, the Main Showing, which is associated with magnetic anomaly M-1. Gold also occurs in bedrock and in float on other parts of the property. The high grade gossanous float found on the cirque talus cone is particularly interesting as it is widely distributed, of obvious local origin, and is sometimes very high grade. Generally, the gold occurs in pyrrhotite skarns, and it is often visible to the naked eye especially in drill core or on rock surfaces cut with a diamond saw. Grades can locally be very high and assays in excess of 30 g/t are common. Simple gravity separation of gold after crushing and grinding gives a recovery of over 70%. The skarns form replacement bodies that lie at the contacts of, or within, Permian Tahkandit limestones. The limestones are interbedded with siliclastic rocks, some of which are extremely hard. This sequence of Permian rocks is folded isoclinally and dips steeply to the north. The limestone is overlain by siliceous rocks presumed to correlate with Jurassic schist mapped in other parts of this region. The black siliceous argillite that underlies the Permian carbonate sequence in places contains small amounts of sphalerite. The age of this argillite is in doubt but it may correlate with Devonian-Carboniferous hornfels mapped elsewhere in the area. This package of rocks was faulted and folded before the intrusion of the Tombstone Plutonic Complex. A late easterly dipping normal or extensional fault (Cirque Fault) that cuts both the sedimentary and igneous rocks appears to truncate the limestone at surface a short distance off the east end of the exploration grid at about 375 E. On the east side of the fault are extensive exposures of slightly rusty Jurassic rocks that may overly buried bodies of Permian limestone. If such limestones exist, they are favorable locations for skarn formation and gold mineralization. On the west end of the grid, the limestones appear to pinch out near grid line 600+00W.

The skarn and associated high grade gold mineralization in trench T00-01 (99-01) is open on one section down dip and along strike to the east.

The calc-silicate skarn mapped intermittently over a strike length of about 400m (1,300 feet) along the axis of an isoclinal fold where the "lower" limestone is in contact with an older grey siliceous argillite close to the Tombstone intrusives provides a locus for

mineralization. The contact zone was tested except for the strike section between magnetic anomalies M-4 and M-5 (100 E - 190 E), which remains a promising target. Any area where limestone is partially or totally enclosed by intrusive will also provide a good exploration target.

8.0 Recommendations

1. Explore Cirque Fault gully north of 200N on approximately line 400+00E. The high grade gossan float emanating from this area provides the best remaining target on the property.
2. Diamond drill the area between Magnetic anomalies M-4 and M-5. A drill substantially larger than a Hydracore will be needed.
3. Complete diamond drilling down dip and on strike to the east on the Main Showing.
4. Trench magnetic anomaly M-2 (Bullseye Anomaly) to locate the source of the anomaly.
5. Geochemical soil/overburden survey over whole property for gold, copper, lead, bismuth, and arsenic.
6. Prospect and explore for skarn and sulphide showings in the Jurassic rocks.
7. Map geology over complete property, and sample where necessary.
8. Use geology to guide diamond drilling deeper in the pendant.
9. Take a bulk sample of the gold mineralization in the Main Showing.
10. Preliminary feasibility for small scale open pit or underground mining on the Main Showing.

9.0 Bibliography

- Bremner T.J.** Proposed Tombstone Area Park - A Preliminary Review of the Mineral Potential. Exploration and Geological Services Division, Yukon Region open file 994-2(T). April 1994.
- Brown I.J. and Nesbitt B.E.** - Copper-gold-bismuth mineralization in hedenbergitic skarn, Tombstone Mountains, Yukon. Canadian Journal of Earth Sciences 24, pp2362 - 2373 (1987)*
- Ettlinger A.D. and Meinert L.D.** Gold Skarn Mineralization and Fluid Evolution in the Nickel Plate Deposit, British Columbia. Economic Geology Vol. 87, 1992, pp 1541-1565.
- Meinert L.D.** Application of Skarn deposit Zonation Models to Mineral Exploration. Mining geol. Vol 6 No.2, pp 185-208, 1997.
- Tenney D.** The Whitehorse Copper Belt: Mining Exploration and geology (1967-1980) Department of Indian and Northern Affairs Canada, Bulletin 1.
- Yukon Minfile #116B 147 Mam.** Yukon Geology Program, Whitehorse.

APPENDIX 1

List of horn claims from mining recorders office



Claim Status Report

18 February 2002

Claim Name and Nbr	Claim No.	Reg. Date	Registered Owner	Owned	NTS #s
Horn 1 - 18	YC03762 - YC03779	2012/03/10	Canadian United Minerals Inc.	100.00	116-B-07
Horn 19 - 22	YC03780 - YC03783	2004/03/10	Canadian United Minerals Inc.	100.00	116-B-07

Criteria(s) used for search:

CLAIM NAME: HORN CLAIM NTS: 116B07 CLAIM STATUS: ACTIVE & PENDING REGULATION TYPE: QUARTZ

— Left column indicator legend:

R - Indicates the claim is on one or more pending renewal(s).

P - Indicates the claim is pending.

Right column indicator legend:

L- Indicates the Quartz Lease.

Total claims selected : 22

APPENDIX 2

Yukon Minfile 116 B147 (Mam Deposit)

MINFILE: 116B 147
PAGE NO: 1 of 2
UPDATED: 07/25/96

**YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE**

NAME(S): Marn
MINFILE #: 116B 147
MAJOR COMMODITIES: Au, Cu, W
MINOR COMMODITIES: Ag, Bi, Zn, Ni
TECTONIC ELEMENT: Selwyn Basin

NTS MAP SHEET: 116 B 7
LATITUDE: 64°29'14"N
LONGITUDE: 138°48'13"W
DEPOSIT TYPE: Skarn
STATUS: Deposit

~~~~~

**CLAIMS (PREVIOUS AND CURRENT)**

MARN, SEELA

**WORK HISTORY**

Old correspondence indicates that Frank McQuillan found this showing in 1914 but no claim records have been found. Staked as MARN cl (YA31491) in Atig/78 by Mattagami Lake ML and adjoining SEELA cl (YA31370) to the west in Jul/78 by Noranda. The Marn group was transferred to Numatt ML and Noranda, which explored with mapping and geochem sampling in 1979; mapping and sampling and 8 holes (1004 m) in 1980; mapping, surveying, hand trenching and 8 holes (about 950 m) in 1981; additional mapping in 1982, and 13 holes (1617 m) in 1983. In 1985, Noranda conducted a CSAMT (Control Source Audio Magnetotellurics) survey and drilled 2 holes (867 m).

Restaked as Marn cl 1-8 (YA31491) by Hemlo Gold Mines in Feb/95.

**GEOLOGY**

A gold-bearing massive sulphide zone occurs in a 30 m thick band of pyroxene skarn containing minor garnet and scheelite. The skarn is hosted by Permian Takhandit Formation limestone, which is underlain by a clastic unit of probable Devonian-Mississippian age and cut by a 600 to 800 m wide lobe on the west side of the Cretaceous Mt Brenner Stock. Most of the skarn lies beneath slightly discordant marginal sills off the diorite lobe.

The main stage of sulphide enrichment consisted of the replacement of skarn minerals by an assemblage that averages 70% pyrrhotite and 20% chalcopyrite and also contains minor sphalerite, arsenopyrite, pyrite and trace cubanite and pentlandite. The final stage of mineralization consisted of veinlets of electrum, native bismuth, bismuthinite, bismuth telluride (possibly hedleyite) and silver minerals, which cut the earlier sulphides and silicates.

Two zones are present, one on either side of the monzonite lobe. The Mini Grid Zone, on the north side, is estimated to contain 275 000 to 330 000 tonnes averaging 8.6 g/t Au, 1% Cu, 0.1% W and 17 g/t Ag. Gold grades up to 360 g/t Au have been obtained and the highest copper values (up to 1.5%) correlate with high gold grades. Tungsten, which grades up to 5.3% WO<sub>3</sub> across short intervals, is only present in the Mini Grid Zone.

The other zone, called Mineral Gully, rarely exceeds 0.5 g/t Au, 1.3 g/t Ag and 0.01% Cu. The 1985 drilling tested geophysical anomalies but did not intersect any skarn or significant mineralization.

**REFERENCES**

BROWN, I.M., AND NESBITT, B.E., Dec/87. Gold-copper-bismuth mineralization in hedenbergite skarn. Canadian Journal of Earth Sciences, p. 2362-2372.

GEOLOGICAL SURVEY OF CANADA Bulletin 180.

#####

**REFERENCES (CONTINUED)**

LAMBERT, M.B., Apr/66. Geology of the Mount Brenner Stock. Unpublished M.Sc. Thesis, University of British Columbia.

YUKON EXPLORATION AND GEOLOGY 1981, p. 239; 1982, p. 225 ; 1983, p. 278-279.

YUKON EXPLORATION 1985-86, p. 396.

YUKON GEOLOGY AND EXPLORATION 1979-80, p. 287-288.

## **APPENDIX 3**

**MLUR letter to H. Copland**

Dave Tenney  
Mine Geology Services  
63 Finch Crescent  
Whitehorse, YT  
Y1A 5X5

DIAND  
Mineral Resources  
Room 325 – 345 Main Street  
Whitehorse, YT  
Y1A 2B5

November 2/2001

**Attention: Hugh Copland, Acting Chief Mining Land Use**  
**RE: Horn Claims MLUR Permit LQ00041 Work – 2001 Report**

Dear Mr. Copland,

The following lists those matters concerning exploration work on the Horn claims that must be reported annually. Work during the 2001 field season comprised almost entirely diamond drilling, but we did limited magnetometer surveying and some bedrock and overburden sampling. The campsite was in use most of the time from June 7<sup>th</sup> to September 8<sup>th</sup>. Normally the crew comprised four people.

1. Wildlife Log.

June 28/2001 – one sheep on ridge south of camp (seen from campsite).

July 4/2001 – two sheep seen from helicopter on mountainside about 3 km northeast of camp.

July 15/2001 – one (?adult) wolverine in valley below camp heading east into cirque (seen from diamond drill set up near east end of grid).

August 8/2001 – one set (up and down valley) recent small caribou footprints (young?) in mud on east side of Horn Lake, 3 km. north of camp.

No other large animals or animal signs were noted. A marmot and numerous arctic ground squirrels were resident near camp.

2. Blasting Log.

August 4/2001 – 3.p.m. – blasted "B" line in trench 2000-01 to collect last of chip samples (no powder used).

August 15/2001 – blasted small boulder on drill set up at 5.15 p.m. and again at 5.45 p.m. "B" line and a small amount of powder was used.

The interpretive centre and the local outfitter were notified of these blasts two days in advance. Canadian United continued to follow a deliberate policy of not blasting unless absolutely necessary. In the upcoming field season (2002) we shall be trenching in bedrock in trench 2000-01 on the east end of the main showing. This will entail the blasting and removal of about 10 cubic meters (45 tonnes) of rock.

3. Campground. Canadian United will try to minimize the disturbance caused by our helicopters flying near the Dempster Highway campsite. Helicopter flying was reduced from last year.

4. Water return from Drill Holes. Water return was lost from nearly all drill holes. However, in two cases the water return was impounded behind a small dam to allow the solids to settle out. Limestone, generally in large amounts, was encountered in all drill holes.

5. Drill Set-ups. Twelve new setup pads for the diamond drill were excavated in the 2002 field season, bringing the total to nineteen. Eight of these setup pads have yet to be recontoured. We note that grasses seem to recover quickly and transplanted sod in some cases revives well.

6. Number of Drill Holes. A total of 28 drill holes were completed in the 2001 field season (holes HS 01-09 to HS 01-36). A list of these holes is attached, showing locations, depths and whether or not the setup has been recontoured.

7. Helicopter Activity. Helicopter flying was reduced during the 2001 field season.

8. Water Quality. Laberge Environmental took water samples part way through the season. No notable changes were recorded (report attached). There was no surface drainage from the main trench (99-01) so pH there could not be monitored.

9. Trenching – the Kubota backhoe was not used during the 2001 field season (a replacement fuel injection system is needed) and no trenches were either dug or backfilled.

10. Trails – No new trails were made during the 2001 field season because the Kubota was inoperative. The approximate location of earlier trails is shown on the attached environmental plan. No reclamation of these trails will be started before the last year of the program. We note that grass is growing through in the centre of some sections of trail.

If you need any more information do not hesitate to contact me.

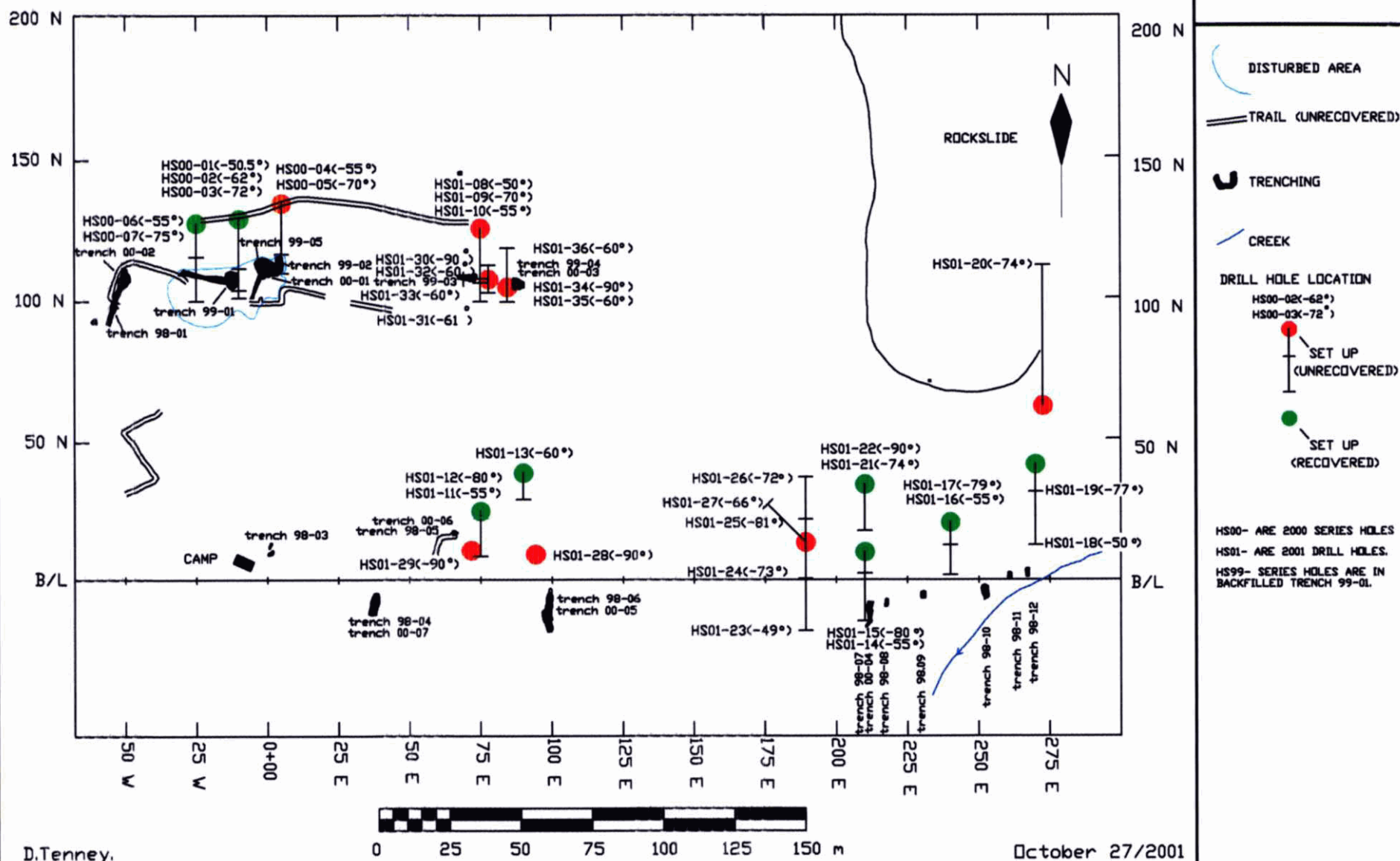
Yours truly,

Dave Tenney.

Attachments: List of drill holes and setups.  
Laberge Environmental report.  
Map.

HORN CLAIMS - TOMBSTONE MOUNTAINS  
LIST OF DIAMOND DRILL HOLES - 1999 TO 2001  
WITH PAD NUMBERS AND RECONTOURED

| HOLE ID    | COORDINATES |         | ELEV.  | BEARING | DIP   | DEPTH  | DEPTH   | SET UP | GROUND    | MAG     |
|------------|-------------|---------|--------|---------|-------|--------|---------|--------|-----------|---------|
|            | E           | N       | m.     |         |       | ft.    | m.      | #      | CONTOURED | ANOMALY |
| HS 99- 01  | 11.8W       | 105.4N  | 1683.0 | S       | -59   | 22.0   | 6.71    | 1      | yes       | 1       |
| HS 99- 02  | 11.8W       | 105.8N  | 1683.0 | -       | -90   | 12.2   | 3.72    | 1      | yes       | 1       |
| HS 99- 03  | 12.2W       | 106.0N  | 1683.0 | N       | -62   | 83.0   | 25.30   | 1      | yes       | 1       |
| HS 99- 04  | 12.2W       | 108.8N  | 1683.0 | S       | -64   | 51.0   | 15.54   | 1      | yes       | 1       |
| HS 99- 05  | 12.2W       | 109.8N  | 1683.0 | N       | -49   | 15.0   | 4.57    | 1      | yes       | 1       |
| HS 99- 06  | 12.2W       | 109.8N  | 1683.0 | E       | -40   | 30.0   | 9.14    | 1      | yes       | 1       |
| HS 99- 07  | 11.6W       | 108.2N  | 1683.0 | 150     | -55   | 28.0   | 8.53    | 1      | yes       | 1       |
| HS 99- 09  | 24.6W       | 109.8N  | 1680.0 | N       | -78   | 47.0   | 14.33   | 2      | yes       | 1       |
| HS 99- 10  | 23.8W       | 109.4N  | 1680.0 | S       | -79   | 30.0   | 9.14    | 2      | yes       | 1       |
| HS 99- 11  | 1.8W        | 108.2N  | 1684.0 | 064     | -78   | 26.0   | 7.92    | 3      | yes       | 1       |
| TOTAL 1999 |             |         |        |         |       | 344.2  | 104.9   |        |           |         |
| HS 00- 01  | 10.0W       | 128.0N  |        | S       | -50.5 | 144.5  | 44.04   | 4      | yes       | 1       |
| HS 00- 02  | 10.0W       | 128.0N  |        | S       | -62   | 177.5  | 54.10   | 4      | yes       | 1       |
| HS 00- 03  | 10.0W       | 128.0N  |        | S       | -72   | 187.0  | 57.00   | 4      | yes       | 1       |
| HS 00- 04  | 05.0E       | 133.5N  |        | S       | -55   | 142.0  | 43.28   | 5      | no        | 1       |
| HS 00- 05  | 05.0E       | 133.7N  |        | S       | -70   | 172.0  | 52.42   | 5      | no        | 1       |
| HS 00- 06  | 25.0W       | 126.5N  |        | S       | -55   | 158.0  | 48.11   | 6      | yes       | 1       |
| HS 00- 07  | 25.0W       | 126.5N  |        | S       | -75   | 152.0  | 46.33   | 6      | yes       | 1       |
| HS 00- 08  | 75.00E      | 124.7N  | 1702.8 | S       | -60   | 47.0   | 14.33   | 7      | no        | 2       |
| TOTAL 2000 |             |         |        |         |       | 1180.0 | 359.66  |        |           |         |
| HS 01- 09  | 75.0E       | 124.7N  | 1702.8 | S       | -70   | 250.0  | 76.20   | 7      | no        | 2       |
| HS 01- 10  | 75.0E       | 124.7N  | 1702.8 | S       | -55   | 111.0  | 33.83   | 7      | no        | 2       |
| HS 01- 11  | 75.0E       | 24.5N   | 1677.4 | S       | -55   | 92.5   | 28.19   | 8      | yes       | 5       |
| HS 01- 12  | 75.0E       | 24.5N   | 1677.4 | S       | -80   | 47.5   | 14.48   | 8      | yes       | 5       |
| HS 01- 13  | 90.0E       | 38.8N   | 1683.0 | S       | -60   | 62.0   | 18.90   | 9      | yes       | 5       |
| HS 01- 14  | 210.0E      | 10.0N   | 1684.5 | S       | -55   | 141.0  | 42.98   | 10     | yes       | 4       |
| HS 01- 15  | 210.0E      | 10.0N   | 1684.5 | S       | -80   | 146.0  | 44.50   | 10     | yes       | 4       |
| HS 01- 16  | 240.0E      | 20.1N   | 1693.0 | S       | -55   | 107.0  | 32.61   | 11     | yes       | 4       |
| HS 01- 17  | 240.0E      | 20.5N   | 1693.0 | S       | -79   | 140.0  | 42.60   | 11     | yes       | 4       |
| HS 01- 18  | 270.0E      | 40.7N   | 1699.5 | S       | -50   | 146.0  | 44.50   | 12     | yes       | 4       |
| HS 01- 19  | 270.0E      | 41.0N   | 1699.5 | S       | -77   | 142.0  | 43.28   | 12     | yes       | 4       |
| HS 01- 20  | 273.0E      | 62.0N   | 1701.6 | N       | -51.5 | 263.0  | 80.16   | 13     | no        | 3       |
| HS 01- 21  | 210.0E      | 33.5N   | 1688.0 | S       | -74.0 | 196.0  | 59.74   | 14     | yes       | 4       |
| HS 01- 22  | 210.0E      | 33.9N   | 1688.0 | -       | -90.0 | 252.5  | 76.96   | 14     | yes       | 4       |
| HS 01- 23  | 189.2E      | 12.6N   | 1681.7 | S       | -49.0 | 157.4  | 47.98   | 15     | no        | 4       |
| HS 01- 24  | 189.2E      | 12.9N   | 1681.7 | S       | -73.0 | 145.3  | 44.29   | 15     | no        | 4       |
| HS 01- 25  | 189.2E      | 13.45N  | 1681.7 | N       | -81.0 | 170.0  | 51.82   | 15     | no        | 4       |
| HS 01- 26  | 189.2E      | 13.75N  | 1681.7 | N       | -72.0 | 245.0  | 74.68   | 15     | no        | 4       |
| HS 01- 27  | 186.92E     | 13.53N  | 1681.7 | NW      | -66.0 | 152.0  | 46.33   | 15     | no        | 4       |
| HS 01- 28  | 94.25E      | 9.1N    | 1669.5 | -       | -90.0 | 34.0   | 10.36   | 16     | no        | 5       |
| HS 01- 29  | 71.7E       | 10.5N   | 1671.4 | -       | -90.0 | 27.0   | 8.23    | 17     | no        | 5       |
| HS 01- 30  | 78.15E      | 106.7N  | 1697.1 | -       | -90.0 | 45.0   | 13.72   | 18     | no        | 2       |
| HS 01- 31  | 78.15E      | 106.4N  | 1697.1 | S       | -61.0 | 33.0   | 10.06   | 18     | no        | 2       |
| HS 01- 32  | 78.15E      | 107.0N  | 1697.1 | N       | -60.0 | 32.0   | 9.75    | 18     | no        | 2       |
| HS 01- 33  | 77.85E      | 106.7N  | 1697.1 | W       | -60.0 | 57.0   | 17.37   | 18     | no        | 2       |
| HS 01- 34  | 84.5E       | 103.15N | 1697.0 | -       | -90.0 | 90.0   | 27.43   | 19     | no        | 2       |
| HS 01- 35  | 84.5E       | 102.7N  | 1697.0 | S       | -60.0 | 35.0   | 10.67   | 19     | no        | 2       |
| HS 01- 36  | 84.5E       | 103.9N  | 1697.0 | N       | -60.0 | 90.0   | 27.43   | 19     | no        | 2       |
| TOTAL 2001 |             |         |        |         |       | 3409.2 | 1039.05 |        |           |         |



**Horn Rock Codes**

## APPENDIX 4

## CANADIAN UNITED MINERALS

Dawson City, Yukon.

## ROCK CODES - 2001

| LITHOLOGY        |                              | SULPHIDES/OXIDES etc. |                | SILICATES etc. |                       |
|------------------|------------------------------|-----------------------|----------------|----------------|-----------------------|
| 1                | sulphides                    | A                     | arsenopyrite   | a              | actinolite            |
| 2                | vein                         | B                     | bismuthinite   | b              | biotite               |
| 3                | calc silicate skarn          | C                     | chalcopyrite   | c              | calcite               |
| 4                | quartzite, clastic sediments | F                     | fluorite       | d              | diopside              |
| 5                | marble/limestone             | G                     | galena         | e              | epidote               |
| 6                | schist                       | H                     | hematite       | f              | feldspar              |
| 7                | black siliceous argillite    | L                     | limonite       | g              | garnet                |
| 8                | monzonite (intrusive)        | M                     | magnetite      | h              | hedenbergite          |
| 9                | fault                        | N                     | stibnite       | i              | chlorite              |
| OB               | overburden                   | O                     | bornite        | k              | potash feldspar       |
| LC               | lost core                    | Q                     | vein quartz    | m              | muscovite             |
| WF               | water flow                   | P                     | pyrite         | o              | kaolin/clay minerals  |
| WL               | water lost                   | R                     | pyrrhotite     | p              | graphite              |
|                  |                              | S                     | marcasite      | q              | quartz/silicification |
|                  |                              | T                     | tetrahedrite   | t              | tremolite             |
|                  |                              | V                     | visible gold   | w              | wollastonite          |
|                  |                              | W                     | scheelite      | y              | gypsum                |
|                  |                              | Y                     | molybdenite    | z              | zeolites              |
|                  |                              | Z                     | sphalerite     |                |                       |
| TEXTURES         |                              |                       |                |                |                       |
| ~ fault gouge    | < fine grained               | \$ massive            | ! foliated     |                |                       |
| - broken core    | ^ medium grained             | + medium bedded       | : zoned        |                |                       |
| " fractured core | > coarse grained             | = thin bedded         | . bleached     |                |                       |
| @ sand           |                              | & stringers           | * disseminated |                |                       |
| % vuggy          |                              | X brecciated          | Δ fragmental   |                |                       |
|                  |                              | # boxwork             | ⊠ clastic      |                |                       |
|                  |                              |                       | □ porphyritic  |                |                       |

## **APPENDIX 5**

**Horn Diamond Drill Logs HS00-08, HS01-09 – HS01-36**

|                                     |  |                                                                                                                                                             |  |                       |     |                        |       |     |    |
|-------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------|-----|------------------------|-------|-----|----|
| PROPERTY _____ Horn Claims          |  | <b>CANADIAN UNITED MINERALS INC.</b><br><b>DIAMOND DRILL HOLE LOG</b>                                                                                       |  | MINE _____            |     | HOLE ID _____ HS 00-08 |       |     |    |
| N.T.S. _____ 116 B-7                |  |                                                                                                                                                             |  | PAGE NO. _____ 1 of 1 |     |                        |       |     |    |
| DATE STARTED _____ Sept 7/2000      |  | LATITUDE _____ 124.7 N      AZ _____ South<br>DEPARTURE _____ 75.0 E      DIP _____ 55 degs.<br>ELEVATION _____ 1702.8 m      DEPTH _____ 14.33 m (47 feet) |  | DIP TESTS             |     |                        |       |     |    |
| DATE COMPLETED _____ Sept 27/2000   |  |                                                                                                                                                             |  | DEPTH                 | DIP | AZ                     | DEPTH | DIP | AZ |
| LOGGED BY _____ D. Tenney           |  |                                                                                                                                                             |  |                       |     |                        |       |     |    |
| DATE _____ June 25/2001             |  |                                                                                                                                                             |  |                       |     |                        |       |     |    |
| PURPOSE _____ Test Bullseye Anomaly |  |                                                                                                                                                             |  |                       |     |                        |       |     |    |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                                           | sample no. | DEPTH |       | length | Rec. | R.Q.D. | R.Q.D. |
|---------|-------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|-------|--------|------|--------|--------|
| FROM    | TO    |           |                                                                                                                                                                                                                                                                                       |            | from  | to    | m      | %    | m      | %      |
| 0.00    | 2.24  | 4-        | QUARTZITE - light green some brown fine grained and rusty especially on joints. Broken core.                                                                                                                                                                                          |            | 0.00  | 2.13  | 1.10   | 52   | 0.00   | 0      |
|         |       |           |                                                                                                                                                                                                                                                                                       |            | 2.13  | 3.66  | 1.21   | 79   | 0.29   | 19     |
|         |       |           |                                                                                                                                                                                                                                                                                       |            | 3.66  | 5.18  | 1.40   | 92   | 0.13   | 9      |
| 2.24    | 6.71  | 4         | QUARTZITE - light green (weakly skarnified) brown (with micas?) light grey fine grained minor rust on joints. Fair coring some broken patches.                                                                                                                                        |            | 5.18  | 6.71  | 1.45   | 95   | 0.63   | 41     |
|         |       |           |                                                                                                                                                                                                                                                                                       |            | 6.71  | 8.23  | 1.32   | 87   | 0.31   | 20     |
|         |       |           |                                                                                                                                                                                                                                                                                       |            | 8.23  | 9.75  | 1.02   | 67   | 0.67   | 44     |
| 6.71    | 8.40  | 4-        | QUARTZITE - light grey fine grained cherty with patches very broken core.                                                                                                                                                                                                             |            | 9.75  | 11.28 | 1.53   | 100  | 1.00   | 65     |
|         |       |           |                                                                                                                                                                                                                                                                                       |            | 11.28 | 12.80 | 1.52   | 100  | 1.30   | 86     |
| 8.40    | 10.12 | 4RqCA     | QUARTZITE - brown yellow cherty with fine grained disseminated pyrrhotite (3%) especially on joints. Some pale grey siliceous replacement. Minor banding. Weak fragmental texture in places. Trace chalcocopyrite. One 5cm patch 10% pyrrhotite. Good coring. Pink alteration at end. |            | 12.80 | 14.32 | 1.38   | 91   | 0.84   | 55     |
|         |       |           |                                                                                                                                                                                                                                                                                       |            |       |       |        |      |        |        |
| 10.12   | 14.32 | 5         | MARBLE - white, grey, green, partly banded. Soft. Mainly good coring.                                                                                                                                                                                                                 |            |       |       |        |      |        |        |
|         |       |           | 11.62 banding (=bedding?) @ 74 degs.                                                                                                                                                                                                                                                  |            |       |       |        |      |        |        |
|         |       |           | 13.08 banding (=bedding?) @ 59 degs.                                                                                                                                                                                                                                                  |            |       |       |        |      |        |        |
|         |       |           | 13.86 banding (=bedding?) @ 57 degs.                                                                                                                                                                                                                                                  |            |       |       |        |      |        |        |
|         |       |           |                                                                                                                                                                                                                                                                                       |            |       |       |        |      |        |        |
|         |       |           | 14.32 E.O.H.                                                                                                                                                                                                                                                                          |            |       |       |        |      |        |        |
|         |       |           | Hole abandoned in bad weather. Redrilled as HS-01-10.                                                                                                                                                                                                                                 |            |       |       |        |      |        |        |
|         |       |           | A.Q.T. core.                                                                                                                                                                                                                                                                          |            |       |       |        |      |        |        |
|         |       |           |                                                                                                                                                                                                                                                                                       |            |       |       |        |      |        |        |

|                                                               |      |                                                                       |                                                                                                                                                                                                                                                   |               |                                      |    |                                         |           |           |           |         |         |     |    |
|---------------------------------------------------------------|------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------------------|----|-----------------------------------------|-----------|-----------|-----------|---------|---------|-----|----|
| PROPERTY <u>Horn Claims</u>                                   |      | <b>CANADIAN UNITED MINERALS INC.</b><br><b>DIAMOND DRILL HOLE LOG</b> |                                                                                                                                                                                                                                                   |               | MINE <u>                    </u>     |    | HOLE ID <u>                    </u>     |           | HS 01- 09 |           |         |         |     |    |
| N.T.S. <u>116 B-7</u>                                         |      |                                                                       |                                                                                                                                                                                                                                                   |               | PAGE NO. <u>                    </u> |    | 1 of 7                                  |           |           |           |         |         |     |    |
| DATE STARTED <u>                    </u> June 7/2001          |      |                                                                       |                                                                                                                                                                                                                                                   |               | DIP TESTS                            |    |                                         |           |           |           |         |         |     |    |
| DATE COMPLETED <u>                    </u> June 20/2001       |      |                                                                       |                                                                                                                                                                                                                                                   |               | LATITUDE <u>          </u> 124.7 N   |    | AZ <u>          </u> South (grid)       |           | DEPTH     | DIP       | AZ      | DEPTH   | DIP | AZ |
| LOGGED BY <u>          </u> D.Tenney                          |      |                                                                       |                                                                                                                                                                                                                                                   |               | DEPARTURE <u>          </u> 75.0 E   |    | DIP <u>          </u> -70 degs          |           |           |           |         |         |     |    |
| DATE <u>          </u> June 24/2001                           |      |                                                                       |                                                                                                                                                                                                                                                   |               | ELEVATION <u>          </u> 1702.8 m |    | DEPTH <u>          </u> 76.2m (250 ft.) |           |           |           |         |         |     |    |
| PURPOSE <u>          </u> Test Bullseye magnetic anomaly M-2. |      |                                                                       |                                                                                                                                                                                                                                                   |               |                                      |    |                                         |           |           |           |         |         |     |    |
| FOOTAGE                                                       |      | ROCK CODE                                                             | DESCRIPTION                                                                                                                                                                                                                                       | sample<br>no. | DEPTH                                |    | length<br>m                             | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |     |    |
| FROM                                                          | TO   |                                                                       |                                                                                                                                                                                                                                                   |               | from                                 | to |                                         |           |           |           |         |         |     |    |
| 0.00                                                          | 4.14 | OB/4-                                                                 | OVERBURDEN - grey quartzite rubble partly rusty                                                                                                                                                                                                   |               |                                      |    |                                         |           |           |           |         |         |     |    |
| 4.14                                                          | 4.73 | 4                                                                     | QUARTZITE - pale green and grey weakly skarnified fine grained quartzite<br>?incipient diopside. Fair coring.                                                                                                                                     |               |                                      |    |                                         |           |           |           |         |         |     |    |
| 4.73                                                          | 4.81 | 8                                                                     | QUARTZ FELDSPAR PORPHYRY DYKE - at high angle to core.<br>Good coring.                                                                                                                                                                            |               |                                      |    |                                         |           |           |           |         |         |     |    |
| 4.81                                                          | 5.38 | 4                                                                     | QUARTZITE - grey to brown fine grained. Hard. Fair coring. Biotitic with<br>minor fine grained pyrrhotite.<br>4.97 banding @ 87 degs.                                                                                                             |               |                                      |    |                                         |           |           |           |         |         |     |    |
| 5.38                                                          | 6.52 | 4/3d                                                                  | SKARNIFIED QUARTZITE - pale green (incipient diopside?) with<br>remnants brown/pink altered quartzite. Hard. Fine grained.                                                                                                                        |               |                                      |    |                                         |           |           |           |         |         |     |    |
| 6.52                                                          | 9.70 | 4                                                                     | QUARTZITE - white/pale grey fine grained. Minor disseminated fine<br>grained pyrrhotite mainly on joints and fractures. Minor weakly<br>skarnified sections. Darker grey sections have more sulphides. Good<br>coring.<br>7.93 banding @ 49 degs. |               |                                      |    |                                         |           |           |           |         |         |     |    |
| 9.70                                                          | 9.80 | 5g                                                                    | MARBLE - white marble tinged green in sections. Silicified. Fair coring.                                                                                                                                                                          |               |                                      |    |                                         |           |           |           |         |         |     |    |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |          |
|----------|----------|
| HOLE ID  | HS 01-09 |
| PAGE NO. | 2 of 7   |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                      | sample no. | DEPTH |    | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
|---------|-------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|----|-------------|-----------|-----------|-----------|---------|---------|
| FROM    | TO    |           |                                                                                                                                                                                                                                                                  |            | from  | to |             |           |           |           |         |         |
| 9.80    | 10.02 | 4         | QUARTZITE - grey fine grained very hard. Good coring.                                                                                                                                                                                                            |            |       |    |             |           |           |           |         |         |
| 10.02   | 10.60 | 5q        | MARBLE - pale green tinged and silicified. Moderately hard. Carbon dioxide with acid. Minor remnants of quartzite. Good coring.                                                                                                                                  |            |       |    |             |           |           |           |         |         |
| 10.60   | 11.57 | 4         | QUARTZITE - light grey/green with patches brown/pink alteration. Fine grained and hard. Good coring. Darker grey sections with about 4% disseminated fine grained pyrrhotite.                                                                                    |            |       |    |             |           |           |           |         |         |
| 11.57   | 12.43 | 5         | MARBLE - white to dark grey partly banded. Soft. Good coring.<br>11.70 banding (=bedding?) @ 58 degs.                                                                                                                                                            |            |       |    |             |           |           |           |         |         |
| 12.43   | 12.88 | 4         | QUARTZITE - altered brown and pink tinged fine grained. Hard.<br>Good coring. Trace fine grained disseminated pyrrhotite.                                                                                                                                        |            |       |    |             |           |           |           |         |         |
| 12.88   | 14.13 | 4<        | QUARTZITE - white/green f.grained. Hard. Fair coring. Minor broken core.<br>13.80 - 14.10 white 1mm rounded quartz clasts in matrix finer grained quartz fragments. Uniform texture.                                                                             |            |       |    |             |           |           |           |         |         |
| 14.13   | 16.10 | 4R        | ALTERED QUARTZITE - brown, pink, green with patchy weak green skarnification (diopside?). 3% disseminated fine grained pyrrhotite in more siliceous and skarnified sections. Hard. Good coring.<br>Trace very fine grained chalcopyrite. Pyrrhotite is magnetic. |            |       |    |             |           |           |           |         |         |
| 16.10   | 16.50 | 5q        | MARBLE - white moderately hard and silicified. Good coring.                                                                                                                                                                                                      |            |       |    |             |           |           |           |         |         |
| 16.50   | 17.17 | 4<        | QUARTZITE - white massive with minor blebs and patches of                                                                                                                                                                                                        |            |       |    |             |           |           |           |         |         |

## DIAMOND DRILL HOLE LOG

HOLE ID HS 01- 09

PAGE NO. 3 of 7

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                               | sample<br>no. | DEPTH |    | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
|---------|-------|-----------|---------------------------------------------------------------------------|---------------|-------|----|-------------|-----------|-----------|-----------|---------|---------|
| FROM    | TO    |           |                                                                           |               | from  | to |             |           |           |           |         |         |
|         |       |           | pyrrhotite (trace). Hard. Good coring.                                    |               |       |    |             |           |           |           |         |         |
| 17.17   | 19.21 | 5>=       | MARBLE - grey coarse grained and bedded. Soft. Good coring.               |               |       |    |             |           |           |           |         |         |
|         |       |           | 18.33 banding (=bedding?) @ 63 degs.                                      |               |       |    |             |           |           |           |         |         |
| 19.21   | 25.10 | 4         | QUARTZITE - grey brown green fine grained finely bedded in most places.   |               |       |    |             |           |           |           |         |         |
|         |       |           | 2% fine grained disseminated pyrrhotite with traces fine grained dis.     |               |       |    |             |           |           |           |         |         |
|         |       |           | chalcopryite. Minor rust on joints. Hard. Fair to good coring.            |               |       |    |             |           |           |           |         |         |
|         |       |           | 24.15 banding (=bedding?) @ 64 degs.                                      |               |       |    |             |           |           |           |         |         |
|         |       |           | 25.10 undulating but sharp contact @ about 24 degs.                       |               |       |    |             |           |           |           |         |         |
| 25.10   | 43.79 | 5>/5=     | MARBLE - white and grey mainly banded with white/pale grey coarse         |               |       |    |             |           |           |           |         |         |
|         |       |           | grained unbanded sections. Mainly good coring. Last metre very coarse     |               |       |    |             |           |           |           |         |         |
|         |       |           | grained 4mm calcite crystals - 8mm crystals at contact.                   |               |       |    |             |           |           |           |         |         |
|         |       |           | 26.15 bedding @ 45 degs.                                                  |               |       |    |             |           |           |           |         |         |
|         |       |           | 27.70 bedding @ 45 degs.                                                  |               |       |    |             |           |           |           |         |         |
|         |       |           | 29.30 bedding @ 61 degs.                                                  |               |       |    |             |           |           |           |         |         |
|         |       |           | 30.90 bedding @ 59 degs.                                                  |               |       |    |             |           |           |           |         |         |
|         |       |           | 32.60 bedding @ 59 degs.                                                  |               |       |    |             |           |           |           |         |         |
|         |       |           | 34.02 bedding @ 62 degs.                                                  |               |       |    |             |           |           |           |         |         |
|         |       |           | 35.47 bedding @ 61 degs.                                                  |               |       |    |             |           |           |           |         |         |
|         |       |           | 36.72 bedding @ 53 degs.                                                  |               |       |    |             |           |           |           |         |         |
|         |       |           | 38.40 bedding @ 40 degs.                                                  |               |       |    |             |           |           |           |         |         |
|         |       |           | 39.70 bedding @ 45 degs.                                                  |               |       |    |             |           |           |           |         |         |
|         |       |           | 41.00 bedding @ 52 degs.                                                  |               |       |    |             |           |           |           |         |         |
|         |       |           | 42.15 bedding @ 51 degs.                                                  |               |       |    |             |           |           |           |         |         |
|         |       |           | 43.40 bedding @ 55 degs.                                                  |               |       |    |             |           |           |           |         |         |
| 43.79   | 54.53 | 7g        | ALTERED ARGILLITE - black fine grained partly bedded siliceous argillite. |               |       |    |             |           |           |           |         |         |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 09 |
| PAGE NO. | 4 of 7    |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                                 | sample<br>no. | DEPTH |    | length | Rac. | Au  | Ag  | Cu | Fe |
|---------|-------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|----|--------|------|-----|-----|----|----|
| FROM    | TO    |           |                                                                                                                                                                                                                                                                             |               | from  | to | m      | %    | g/t | g/t | %  | %  |
|         |       |           | Moderately hard. Graphitic? Fair coring. Moderate jointing. Traces green skarn minerals and fine grained pyrite on joints.                                                                                                                                                  |               |       |    |        |      |     |     |    |    |
|         |       |           | 45.28 bedding @ 63 degs.                                                                                                                                                                                                                                                    |               |       |    |        |      |     |     |    |    |
|         |       |           | 45.95 bedding @ 63 degs.                                                                                                                                                                                                                                                    |               |       |    |        |      |     |     |    |    |
|         |       |           | 48.66 bedding @ 47 degs.                                                                                                                                                                                                                                                    |               |       |    |        |      |     |     |    |    |
|         |       |           | 52.00 bedding @ 46 degs.                                                                                                                                                                                                                                                    |               |       |    |        |      |     |     |    |    |
|         |       |           | 52.90 bedding @ 51 degs.                                                                                                                                                                                                                                                    |               |       |    |        |      |     |     |    |    |
| 54.53   | 54.70 | 7qZRC     | ALTERED ARGILLITE - white/green bleached/alterned moderately hard and weakly calcareous in places. Blebs angular sphalerite (2%) and minor specks pyrrhotite. Weak green skarnification. Silicified with 5mm wide quartz crystals. Fair to good coring.                     |               |       |    |        |      |     |     |    |    |
| 54.70   | 56.80 | 7q        | ARGILLITE - as above cherty bedding in sections. Good coring. Traces disseminated fine grained pyrrhotite aligned along bedding planes. Sections of weak silicification.                                                                                                    |               |       |    |        |      |     |     |    |    |
|         |       |           | 54.90 bedding @ 57 degs.                                                                                                                                                                                                                                                    |               |       |    |        |      |     |     |    |    |
|         |       |           | 55.88 bedding @ 55 degs.                                                                                                                                                                                                                                                    |               |       |    |        |      |     |     |    |    |
| 56.80   | 57.82 | 7q        | SILICIFIED ARGILLITE - black fine grained with irregular white pale grey quartz alteration (60%). Remnant bedding at 35 degrees. Weakly graphitic? (no smudging on hands). Good coring.                                                                                     |               |       |    |        |      |     |     |    |    |
| 57.82   | 58.31 | 7qRP      | SILICIFIED ARGILLITE - pale grey/green f. grained silicified sediment with possible fine grained altered quartz feldspar dyke. Traces of pale green mica and fine grained disseminate pyrite and pyrrhotite (2%). One brown section 8 cm long with disseminated pyrrhotite. |               |       |    |        |      |     |     |    |    |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

HOLE ID HS 01- 09

PAGE NO. 5 of 7

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                                                                                                            | sample<br>no. | DEPTH |    | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
|---------|-------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|----|-------------|-----------|-----------|-----------|---------|---------|
| FROM    | TO    |           |                                                                                                                                                                                                                                                                                                                                                        |               | from  | to |             |           |           |           |         |         |
| 58.31   | 65.01 | 7q        | BLACK ARGILLITE -very fine grained questionably graphitic (weak)<br>with 1% disseminate fine grained pyrite. Fair coring. Moderate jointing.<br>59.05 bedding @ 54 degs.<br>59.97 bedding @ 63 degs.                                                                                                                                                   |               |       |    |             |           |           |           |         |         |
| 65.01   | 66.52 | 7qP       | SILICIFIED ARGILLITE - as above. White/pale green with 1%<br>disseminated pyrite and remnnts of less altered brown tinged quartzite.<br>Weakly skarnified. Hard cherty core. Very good coring.                                                                                                                                                         |               |       |    |             |           |           |           |         |         |
| 66.52   | 67.10 | 7q        | BLACK ARGILLITE - fine grained 2% fine grained disseminated pyrite<br>cubes. Good coring.                                                                                                                                                                                                                                                              |               |       |    |             |           |           |           |         |         |
| 67.10   | 67.63 | 7qRZ      | SILICIFIED ARGILLITE - white/grey/green with remannts of altered<br>sediments and 1% disseminated fine grained pyrrhotite. Traces<br>spahlerite (black with red streak). Trace fine grained disseminated pyrite.<br>Red mineral (garnet) and yellow green mineral (color similar to<br>hemimorphite). Trace chalcopyrite. Very hard core. Good coring. |               |       |    |             |           |           |           |         |         |
| 67.63   | 69.70 | 7q        | BLACK ARGILLITE - fine grained looks faintly graphitic (but no good black<br>smudge off joints or slips). Thin 1mm very irregular white quartz veining<br>(4%). Hard core. Good coring.                                                                                                                                                                |               |       |    |             |           |           |           |         |         |
| 69.70   | 70.74 | 8qf>      | DYKE - white/grey coarse grained (up to 1.5cm) quartz and feldspar<br>crystals with graphic and runic textures. Wormlike texture at start.<br>Granitic composition with 5% black mafics.                                                                                                                                                               |               |       |    |             |           |           |           |         |         |
| 70.74   | 71.07 | 7q        | SILICIFIED ARGILLITE - similar to 67.10 to 67.63 but very weak sulphides.                                                                                                                                                                                                                                                                              |               |       |    |             |           |           |           |         |         |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

HOLE ID HS 01- 09

PAGE NO. 6 of 7

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                   | sample<br>no. | DEPTH |       | length | Rec. | R.Q.D. | R.Q.D. |  |  |
|---------|-------|-----------|-------------------------------------------------------------------------------|---------------|-------|-------|--------|------|--------|--------|--|--|
| FROM    | TO    |           |                                                                               |               | from  | to    | m      | %    | m      | %      |  |  |
|         |       |           | Trace fine grained pyrrhotite and pyrite. Good coring.                        |               | 0.00  | 4.57  | 1.70   | 37   | 0.12   | 3      |  |  |
|         |       |           |                                                                               |               | 4.57  | 6.10  | 1.32   | 86   | 0.45   | 29     |  |  |
| 71.07   | 74.63 | 7q        | BLACK ARGILLITE - as 67.63 to 69.70. Thin 1mm wide very irregular             |               | 6.10  | 7.62  | 1.37   | 90   | 1.14   | 75     |  |  |
|         |       |           | white quartz stringers. Hard. Good coring.                                    |               | 7.62  | 8.84  | 1.35   | 111  | 0.90   | 74     |  |  |
|         |       |           |                                                                               |               | 8.84  | 11.89 | 3.05   | 100  | 2.04   | 67     |  |  |
| 74.63   | 76.20 | 7qPZ      | SILICIFIED ARGILLITE - grey/pale green/black fine grained and weakly          |               | 11.89 | 13.41 | 1.49   | 98   | 0.80   | 53     |  |  |
|         |       |           | skarnified. 1% fine grained pyrite and trace of very fine grained sphalerite. |               | 13.41 | 13.72 | 0.31   | 100  | 0.20   | 65     |  |  |
|         |       |           |                                                                               |               | 13.72 | 14.63 | 0.88   | 97   | 0.62   | 68     |  |  |
|         |       |           | 76.20 E.O.H.                                                                  |               | 14.63 | 16.15 | 1.48   | 97   | 1.12   | 74     |  |  |
|         |       |           | AQT CORING.                                                                   |               | 16.15 | 17.68 | 1.53   | 100  | 1.43   | 93     |  |  |
|         |       |           |                                                                               |               | 17.68 | 19.20 | 1.52   | 100  | 1.52   | 100    |  |  |
|         |       |           | N.B. This hole contains silicified black argillite with disseminated minor    |               | 19.20 | 20.73 | 1.53   | 100  | 0.95   | 62     |  |  |
|         |       |           | amounts of sphalerite, pyrrhotite, pyrite and chalcopyrite.                   |               | 20.73 | 22.25 | 1.52   | 100  | 0.85   | 56     |  |  |
|         |       |           |                                                                               |               | 22.25 | 23.77 | 1.52   | 100  | 0.70   | 46     |  |  |
|         |       |           |                                                                               |               | 23.77 | 25.30 | 1.53   | 100  | 0.95   | 62     |  |  |
|         |       |           |                                                                               |               | 25.30 | 26.82 | 1.52   | 100  | 1.27   | 84     |  |  |
|         |       |           |                                                                               |               | 26.82 | 28.35 | 1.53   | 100  | 1.43   | 93     |  |  |
|         |       |           |                                                                               |               | 28.35 | 29.87 | 1.52   | 100  | 0.80   | 53     |  |  |
|         |       |           |                                                                               |               | 29.87 | 31.39 | 1.52   | 100  | 0.98   | 64     |  |  |
|         |       |           |                                                                               |               | 31.39 | 32.92 | 1.53   | 100  | 1.40   | 92     |  |  |
|         |       |           |                                                                               |               | 32.92 | 34.44 | 1.52   | 100  | 1.40   | 92     |  |  |
|         |       |           |                                                                               |               | 34.44 | 35.97 | 1.53   | 100  | 1.36   | 89     |  |  |
|         |       |           |                                                                               |               | 35.97 | 37.49 | 1.52   | 100  | 1.34   | 88     |  |  |
|         |       |           |                                                                               |               | 37.49 | 38.10 | 0.61   | 100  | 0.43   | 70     |  |  |
|         |       |           |                                                                               |               | 38.10 | 39.62 | 1.52   | 100  | 1.06   | 70     |  |  |
|         |       |           |                                                                               |               | 39.62 | 41.15 | 1.52   | 99   | 1.25   | 82     |  |  |
|         |       |           |                                                                               |               | 41.15 | 42.67 | 1.52   | 100  | 1.29   | 85     |  |  |

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 09 |
| PAGE NO. | 7 of 7    |

Mine Geology Services April 17/1999

|                                      |  |                                                                                                                                                                   |  |                |               |        |           |     |    |
|--------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------|---------------|--------|-----------|-----|----|
| PROPERTY _____ Horn Claims           |  | <b>CANADIAN UNITED MINERALS INC.</b><br><b>DIAMOND DRILL HOLE LOG</b>                                                                                             |  | MINE _____     | HOLE ID _____ |        | HS 01- 10 |     |    |
| N.T.S. _____ 118 B-7                 |  |                                                                                                                                                                   |  | PAGE NO. _____ |               | 1 of 3 |           |     |    |
| DATE STARTED _____ June 20/2001      |  | LATITUDE _____ 124.7 N      AZ _____ South (grd)<br>DEPARTURE _____ 75.0 E      DIP _____ -55 degs.<br>ELEVATION _____ 1702.8 m      DEPTH _____ 33.83m (111 ft.) |  | DIP TESTS      |               |        |           |     |    |
| DATE COMPLETED _____ June 23/2001    |  |                                                                                                                                                                   |  | DEPTH          | DIP           | AZ     | DEPTH     | DIP | AZ |
| LOGGED BY _____ D.Tenney             |  |                                                                                                                                                                   |  |                |               |        |           |     |    |
| DATE _____ June 24/2001              |  |                                                                                                                                                                   |  |                |               |        |           |     |    |
| PURPOSE _____ Test Bullseye anomaly. |  |                                                                                                                                                                   |  |                |               |        |           |     |    |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                  | sample no. | DEPTH |    | length m | Rec. % | Au g/t | Ag g/t | Cu % | Fe % |
|---------|-------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|----|----------|--------|--------|--------|------|------|
| FROM    | TO    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                              |            | from  | to |          |        |        |        |      |      |
| 0.00    | 3.96  | OB/4--    | OVERBURDEN - 2-5cm. Fragments pale green weakly skarnified fine grained quartzite. Minor dark grey fine grained quartzite. Non calcareous. Very hard. Some rusty places.                                                                                                                                                                                                                                                                     |            |       |    |          |        |        |        |      |      |
| 3.96    | 8.60  | 4         | QUARTZITE - light grey to grey/green skarnified fine grained and hard. Moderate to strong jointing. Non calcareous. Traces of rust on joints. Poor banding.                                                                                                                                                                                                                                                                                  |            |       |    |          |        |        |        |      |      |
| 8.60    | 9.50  | 4RP       | QUARTZITE - light grey pink tinged in places with minor green alteration. Fine grained and very hard. 2% fine grained magnetic pyrrhotite crystals often in clusters. Minor fine grained pyrite. Mainly good coring. Poor banding.                                                                                                                                                                                                           |            |       |    |          |        |        |        |      |      |
| 9.50    | 12.88 | 5=        | MARBLE - white and grey to darker grey with green tinged sections. Mainly well banded and coarse grained (5mm crystals). Unusual thin (1-3cm) bands grey quartzite in a few places (4% of rock). Mainly good coring. 9.65 bedding @ 54 degs. 10.65 bedding @ 53 degs. 11.40 3mm band dark grey fine grained quartzite parallel to bedding in limestone @ 50 degs. 12.47 5cm band of grey quartzite @ 64 degs. Parallel to banding in marble. |            |       |    |          |        |        |        |      |      |
| 12.88   | 13.08 | 4<*       | QUARTZITE - white with rounded to sub rounded grains clear quartz up                                                                                                                                                                                                                                                                                                                                                                         |            |       |    |          |        |        |        |      |      |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 10 |
| PAGE NO. | 2 of 3    |

banding (=bedding?) @ 69 degs.

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                  | sample<br>no. | DEPTH |    | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
|---------|-------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|----|-------------|-----------|-----------|-----------|---------|---------|
| FROM    | TO    |           |                                                                                                                                                                                                                                                                                                                                                                                              |               | from  | to |             |           |           |           |         |         |
|         |       |           | to 2mm diameter. Beach sand? Good coring.                                                                                                                                                                                                                                                                                                                                                    |               |       |    |             |           |           |           |         |         |
| 13.08   | 14.25 | 5         | MARBLE - white to pale grey coarse grained with some banding. Soft.<br>13.25 banding (=bedding?) @ 48 degs.                                                                                                                                                                                                                                                                                  |               |       |    |             |           |           |           |         |         |
| 14.25   | 14.67 | 4R        | QUARTZITE - light grey brown and pink tinged fine grained altered<br>quartzite. 3% blebs with some disseminated magnetic pyrrhotite. Non<br>calcareous. Hard. Good coring.                                                                                                                                                                                                                   |               |       |    |             |           |           |           |         |         |
| 14.67   | 17.28 | 5>=       | MARBLE - white and grey coarse grained banded. Good coring.<br>14.90 banding (=bedding?) @ 58 degs.<br>15.60 banding (=bedding?) @ 62 degs.<br>17.17 banding (=bedding?) @ 58 degs.<br>17.28 contact with quartzite mineralized over 3mm with fine grained<br>disseminated pyrrhotite. Contact @ 64 degs.                                                                                    |               |       |    |             |           |           |           |         |         |
| 17.28   | 23.50 | 4R=       | QUARTZITE - grey/green (darker) fine grained with weak alteration.<br>Disseminated and blebs magnetic pyrrhotite (4%) often aligned along the<br>bedding. Hard and very good coring.<br>17.53 banding (=bedding?) @ 63 degs.<br>18.30 banding (=bedding?) @ 58 degs.<br>18.90 banding (=bedding?) @ 79 degs.<br>20.15 banding (=bedding?) @ 69 degs.<br>22.75 banding (=bedding?) @ 77 degs. |               |       |    |             |           |           |           |         |         |
| 23.50   | 23.97 | 3dR/4     | ALTERED & SKARNIFIED QUARTZITE - pale apple green "pink" fine<br>grained with 3% fine grained disseminated pyrrhotite sometimes in                                                                                                                                                                                                                                                           |               |       |    |             |           |           |           |         |         |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 10 |
| PAGE NO. | 3 of 3    |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                             | sample<br>no. | DEPTH |       | length | Rec. | R.Q.D. | R.Q.D. |  |  |
|---------|-------|-----------|-------------------------------------------------------------------------|---------------|-------|-------|--------|------|--------|--------|--|--|
| FROM    | TO    |           |                                                                         |               | from  | to    | m      | %    | m      | %      |  |  |
|         |       |           | clumps. Siliceous patches and sections with sulphides. Trace garnet     |               | 0.00  | 3.96  | 0.90   | 23   | 0.00   | 0      |  |  |
|         |       |           | and specks chalcopryite. Very hard. Good coring                         |               | 3.96  | 5.18  | 1.06   | 87   | 0.15   | 12     |  |  |
|         |       |           | 23.50 gradational contact.                                              |               | 5.18  | 6.71  | 0.80   | 52   | 0.33   | 22     |  |  |
|         |       |           | 23.97 sharp contact @ 54 degs.                                          |               | 6.71  | 7.92  | 1.13   | 93   | 0.27   | 22     |  |  |
|         |       |           |                                                                         |               | 7.92  | 8.84  | 0.72   | 78   | 0.52   | 57     |  |  |
| 23.97   | 24.19 | 5         | MARBLE - white and grey coarse grained with fine grained disseminated   |               | 8.84  | 10.36 | 0.90   | 59   | 0.36   | 24     |  |  |
|         |       |           | pyrrhotite (2%) chalcopryite (tr). Banding at high angle (75 degs?).    |               | 10.36 | 11.89 | 1.47   | 96   | 1.35   | 88     |  |  |
|         |       |           | Soft. Good coring.                                                      |               | 11.89 | 13.41 | 1.52   | 100  | 1.30   | 86     |  |  |
|         |       |           |                                                                         |               | 13.41 | 14.94 | 1.53   | 100  | 1.23   | 80     |  |  |
| 24.19   | 24.29 | 4R        | QUARTZITE - white/pale grey fine grained with fine grained disseminated |               | 14.94 | 16.46 | 1.52   | 100  | 0.96   | 83     |  |  |
|         |       |           | pyrrhotite (2%) chalcopryite (tr). Very hard. Good coring               |               | 16.46 | 17.98 | 1.53   | 101  | 1.51   | 99     |  |  |
|         |       |           | 24.29 sharp conatct @ 49 degs.                                          |               | 17.98 | 19.51 | 1.53   | 100  | 1.29   | 84     |  |  |
|         |       |           |                                                                         |               | 19.51 | 21.03 | 1.52   | 100  | 1.36   | 89     |  |  |
| 24.29   | 24.90 | 4         | QUARTZITE - dark grey fine grained with disseminated pyrite and         |               | 21.03 | 22.56 | 1.53   | 100  | 1.01   | 66     |  |  |
|         |       |           | pyrrhotite (2%) mainly on joints and fractures. Very hard. Good coring. |               | 22.56 | 23.16 | 0.65   | 108  | 0.50   | 83     |  |  |
|         |       |           |                                                                         |               | 23.16 | 24.69 | 1.53   | 100  | 1.02   | 67     |  |  |
| 24.90   | 33.83 | 5=>       | MARBLE - white with darkgrey banding (2-10 cm) mainly coarse grained.   |               | 24.69 | 26.21 | 1.52   | 100  | 0.85   | 56     |  |  |
|         |       |           | soft. Good coring.                                                      |               | 26.21 | 27.74 | 1.53   | 100  | 1.23   | 80     |  |  |
|         |       |           | 26.10 banding (=bedding?) @ 66 degs.                                    |               | 27.74 | 29.26 | 1.52   | 100  | 1.01   | 66     |  |  |
|         |       |           | 27.35 banding (=bedding?) @ 67 degs.                                    |               | 29.26 | 30.78 | 1.52   | 100  | 1.52   | 100    |  |  |
|         |       |           | 28.62 banding (=bedding?) @ 63 degs.                                    |               | 30.78 | 32.31 | 1.53   | 100  | 1.53   | 100    |  |  |
|         |       |           | 29.36 banding (=bedding?) @ 71 degs.                                    |               | 32.31 | 33.83 | 1.52   | 100  | 1.14   | 75     |  |  |
|         |       |           | 31.00 banding (=bedding?) @ 72 degs.                                    |               |       |       |        |      |        |        |  |  |
|         |       |           | 32.40 banding (=bedding?) @ 79 degs.                                    |               |       |       |        |      |        |        |  |  |
|         |       |           |                                                                         |               |       |       |        |      |        |        |  |  |
|         |       |           |                                                                         |               |       |       |        |      |        |        |  |  |
|         |       |           | 33.83 E.O.H.                                                            |               |       |       |        |      |        |        |  |  |
|         |       |           | AQT core.                                                               |               |       |       |        |      |        |        |  |  |

|                                          |     |                                                                       |       |                               |    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |           |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------------------|-----|-----------------------------------------------------------------------|-------|-------------------------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|--|-------|-----|----|-------|-----|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| PROPERTY _____ Horn Claims               |     | <b>CANADIAN UNITED MINERALS INC.</b><br><b>DIAMOND DRILL HOLE LOG</b> |       | MINE _____                    |    | HOLE ID _____                                                                                                                                                                                                                                                                                                                                                                                                                       |  | HS 01- 11 |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N.T.S. _____ 116 B-7                     |     |                                                                       |       |                               |    | PAGE NO. _____                                                                                                                                                                                                                                                                                                                                                                                                                      |  | 1 of 2    |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DATE STARTED _____ June 25/2001          |     | LATITUDE _____ 25.5 N                                                 |       | AZ _____ South (grid)         |    | <div style="text-align: center;">DIP TESTS</div> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>DEPTH</td><td>DIP</td><td>AZ</td><td>DEPTH</td><td>DIP</td><td>AZ</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> |  |           |  | DEPTH | DIP | AZ | DEPTH | DIP | AZ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DEPTH                                    | DIP | AZ                                                                    | DEPTH | DIP                           | AZ |                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |           |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                          |     |                                                                       |       |                               |    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |           |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                          |     |                                                                       |       |                               |    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |           |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                          |     |                                                                       |       |                               |    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |           |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DATE COMPLETED _____ June 25/2001        |     | DEPARTURE _____ 75.0 E                                                |       | DIP _____ -55 degs.           |    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |           |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LOGGED BY _____ D.Tenney                 |     | ELEVATION _____ 1677.4m                                               |       | DEPTH _____ 28.19m (92.5 ft.) |    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |           |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DATE _____ June 26/2001                  |     |                                                                       |       |                               |    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |           |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PURPOSE _____ Test magnetic anomaly M-5. |     |                                                                       |       |                               |    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |           |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| FOOTAGE |      | ROCK CODE | DESCRIPTION                                                                                                                                       | sample no. | DEPTH |    | length m | Rec. % | Au g/t | Ag g/t | Cu % | Fe % |
|---------|------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|----|----------|--------|--------|--------|------|------|
| FROM    | TO   |           |                                                                                                                                                   |            | from  | to |          |        |        |        |      |      |
| 0.00    | 3.11 | 5-        | MARBLE - white and grey coarse grained marble with up to 5mm calcite crystals. Minor banding. Broken core.<br>1.24 banding (=bedding?) @ 28 degs. |            |       |    |          |        |        |        |      |      |
| 3.11    | 5.33 | 5=>       | MARBLE - pale grey coarse grained, bedded. Good coring.<br>4.00 banding (=bedding?) @ 34 degs.<br>5.10 banding (=bedding?) @ 44 degs.             |            |       |    |          |        |        |        |      |      |
| 5.33    | 5.76 | 4         | QUARTZITE - white and grey very hard. Cherty. White at start and end.                                                                             |            |       |    |          |        |        |        |      |      |
| 5.76    | 7.15 | 5>=       | MARBLE - pale grey coarse grained with poor banding. Good coring.<br>5.83 banding (=bedding?) @ 42 degs.<br>6.82 banding (=bedding?) @ 46 degs.   |            |       |    |          |        |        |        |      |      |
| 7.15    | 8.30 | 4         | QUARTZITE - white with small rounded to angular clasts of clear quartz. Good coring. Broken at end.                                               |            |       |    |          |        |        |        |      |      |
| 8.30    | 8.44 | 3d        | CALC SILICATE SKARN - pale apple green fine grained diopside? with remnants of brown quartzite. Fair coring.                                      |            |       |    |          |        |        |        |      |      |
| 8.44    | 8.85 | 4         | QUARTZITE - grey/brown/green fine grained weakly skarnified. Good coring.                                                                         |            |       |    |          |        |        |        |      |      |

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 11 |
| PAGE NO. | 2 of 2    |

Mine Geology Services April 17/1999

|                                          |  |                                                                       |  |                               |  |                |  |           |     |    |
|------------------------------------------|--|-----------------------------------------------------------------------|--|-------------------------------|--|----------------|--|-----------|-----|----|
| PROPERTY _____ Horn Claims               |  | <b>CANADIAN UNITED MINERALS INC.</b><br><b>DIAMOND DRILL HOLE LOG</b> |  | MINE _____                    |  | HOLE ID _____  |  | HS 01- 12 |     |    |
| N.T.S. _____ 116 B-7                     |  |                                                                       |  |                               |  | PAGE NO. _____ |  | 1 of 1    |     |    |
| DATE STARTED _____ June 25/2001          |  |                                                                       |  |                               |  | DIP TESTS      |  |           |     |    |
| DATE COMPLETED _____ June 26/2001        |  | LATITUDE _____ 24.5 N                                                 |  | AZ _____ South (grid)         |  |                |  | DEPTH     | DIP | AZ |
| LOGGED BY _____ D.Tenney                 |  | DEPARTURE _____ 75.0 E                                                |  | DIP _____ -80 degs.           |  |                |  |           |     |    |
| DATE _____ June 27/2001                  |  | ELEVATION _____ 1677.4m                                               |  | DEPTH _____ 14.50m (47.5 ft.) |  |                |  |           |     |    |
| PURPOSE _____ Test magnetic anomaly M-5. |  |                                                                       |  |                               |  |                |  |           |     |    |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                                                                                                          | sample no. | DEPTH |       | length | Rec. | R.Q.D. | R.Q.D. |  |  |
|---------|-------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|-------|--------|------|--------|--------|--|--|
| FROM    | TO    |           |                                                                                                                                                                                                                                                                                                                                                      |            | from  | to    | m      | %    | m      | %      |  |  |
| 0.00    | 5.18  | 5>        | MARBLE - white/pale grey coarse grained with weak banding along core<br>(?? degs.). Good coring.                                                                                                                                                                                                                                                     |            | 0.00  | 2.13  | 0.38   | 18   | 0.33   | 15     |  |  |
|         |       |           |                                                                                                                                                                                                                                                                                                                                                      |            | 2.13  | 3.66  | 1.25   | 82   | 0.95   | 62     |  |  |
|         |       |           |                                                                                                                                                                                                                                                                                                                                                      |            | 3.66  | 5.18  | 1.12   | 74   | 0.56   | 37     |  |  |
| 5.18    | 5.63  | 4<*\$     | QUARTZITE - light grey fine grained bleached and massive.                                                                                                                                                                                                                                                                                            |            | 5.18  | 6.71  | 1.46   | 95   | 1.24   | 81     |  |  |
|         |       |           |                                                                                                                                                                                                                                                                                                                                                      |            | 6.71  | 8.23  | 1.00   | 66   | 0.42   | 28     |  |  |
| 5.63    | 6.33  | 3dgh      | CALC SILICATE SKARN - fine grained green ?diopside with bands up to<br>4cm of brown garnet. Good coring.                                                                                                                                                                                                                                             |            | 6.23  | 9.75  | 1.00   | 66   | 0.51   | 34     |  |  |
|         |       |           | 6.06 banding (=bedding?) @ 74 degs.                                                                                                                                                                                                                                                                                                                  |            | 9.75  | 11.28 | 1.52   | 99   | 0.90   | 59     |  |  |
|         |       |           | note - this section is better developed skarn than in hole HS 01-11.                                                                                                                                                                                                                                                                                 |            | 11.28 | 12.80 | 1.52   | 100  | 0.87   | 57     |  |  |
|         |       |           |                                                                                                                                                                                                                                                                                                                                                      |            | 12.80 | 14.33 | 1.53   | 100  | 1.33   | 87     |  |  |
|         |       |           |                                                                                                                                                                                                                                                                                                                                                      |            | 14.33 | 14.50 | 0.17   | 100  | 0.00   | 0      |  |  |
| 6.33    | 11.75 | 4\$-      | QUARTZITE - white with pale grey sections mainly massive. Traces<br>disseminated fine grained pyrrhotite. Fair coring with broken sections.                                                                                                                                                                                                          |            |       |       |        |      |        |        |  |  |
|         |       |           |                                                                                                                                                                                                                                                                                                                                                      |            |       |       |        |      |        |        |  |  |
| 11.75   | 14.50 | 4Δ        | QUARTZITE - grey/green/brown siliceous sediment with clastic/<br>fragmental textures reminiscent of welded tuff with flattened fragments.<br>2% fine grained disseminated pyrrhotite and pyrite. Hard. Good coring.<br>11.25 banding (=bedding?) @ 58 degs.<br>13.30 banding (=bedding?) @ 60 degs.<br>note: this section may be of volcanic origin. |            |       |       |        |      |        |        |  |  |
|         |       |           |                                                                                                                                                                                                                                                                                                                                                      |            |       |       |        |      |        |        |  |  |
|         |       |           |                                                                                                                                                                                                                                                                                                                                                      |            |       |       |        |      |        |        |  |  |
|         |       |           | 14.50 E.O.H                                                                                                                                                                                                                                                                                                                                          |            |       |       |        |      |        |        |  |  |
|         |       |           | AQT core.                                                                                                                                                                                                                                                                                                                                            |            |       |       |        |      |        |        |  |  |

|                                          |     |                                                                       |       |                               |    |                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |           |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------------------|-----|-----------------------------------------------------------------------|-------|-------------------------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|--|-------|-----|----|-------|-----|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| PROPERTY _____ Horn Claims               |     | <b>CANADIAN UNITED MINERALS INC.</b><br><b>DIAMOND DRILL HOLE LOG</b> |       | MINE _____                    |    | HOLE ID _____                                                                                                                                                                                                                                                                                                                                                                                                                      |  | HS 01- 13 |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N.T.S. _____ 116 B-7                     |     |                                                                       |       |                               |    | PAGE NO. _____                                                                                                                                                                                                                                                                                                                                                                                                                     |  | 1 of 2    |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DATE STARTED _____ June 27/2001          |     | LATITUDE _____ 38.0 N                                                 |       | AZ _____ South (grid)         |    | <div style="text-align: center;">DIP TESTS</div> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>DEPTH</td><td>DIP</td><td>AZ</td><td>DEPTH</td><td>DIP</td><td>AZ</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> |  |           |  | DEPTH | DIP | AZ | DEPTH | DIP | AZ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DEPTH                                    | DIP | AZ                                                                    | DEPTH | DIP                           | AZ |                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |           |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                          |     |                                                                       |       |                               |    |                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |           |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                          |     |                                                                       |       |                               |    |                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |           |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                          |     |                                                                       |       |                               |    |                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |           |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DATE COMPLETED _____ June 28/2001        |     | DEPARTURE _____ 90.0 E                                                |       | DIP _____ -60 degs.           |    |                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |           |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LOGGED BY _____ D.Tenney                 |     | ELEVATION _____ 1683.0m                                               |       | DEPTH _____ 18.90m (62.0 ft.) |    |                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |           |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DATE _____ June 28/2001                  |     |                                                                       |       |                               |    |                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |           |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PURPOSE _____ Test magnetic anomaly M-5. |     |                                                                       |       |                               |    |                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |           |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                               | sample<br>no. | DEPTH |    | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
|---------|-------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|----|-------------|-----------|-----------|-----------|---------|---------|
| FROM    | TO    |           |                                                                                                                                                                                                                                                           |               | from  | to |             |           |           |           |         |         |
| 0.00    | 3.90  | OB/7-     | OVERBURDEN - lost core, boulders and rubble monzonite.                                                                                                                                                                                                    |               |       |    |             |           |           |           |         |         |
| 3.90    | 5.62  | 5/OB      | MARBLE/BOULDERS - coarse grained white/grey moderately bedded.<br>Good coring.<br>4.98 bedding @ 36 degs.                                                                                                                                                 |               |       |    |             |           |           |           |         |         |
| 5.62    | 5.67  | 5qRC      | SILICIFIED MARBLE - with 5cm patch of pyrrhotite and trace chalcopyrite.                                                                                                                                                                                  |               |       |    |             |           |           |           |         |         |
| 5.67    | 6.10  | 5/OB      | MARBLE/BOULDER - coarse grained white/grey moderately bedded.<br>6.00 bedding @ 48 degs.                                                                                                                                                                  |               |       |    |             |           |           |           |         |         |
| 6.10    | 7.72  | OB/4-     | OVERBURDEN - fragments of dark grey fine grained quartzite and monzonite.<br>7.55 bedding in quartzite @ 12 degs.                                                                                                                                         |               |       |    |             |           |           |           |         |         |
| 7.72    | 16.20 | 5         | MARBLE - coarse grained white/pale grey with weak bedding in places.<br>Good coring.<br>7.90 bedding @ 20 degs.<br>8.93 bedding @ 18 degs.<br>9.49 bedding @ 28 degs.<br>10.90 bedding @ 43 degs.<br>12.10 bedding @ 37 degs.<br>13.92 bedding @ 41 degs. |               |       |    |             |           |           |           |         |         |

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 13 |
| PAGE NO. | 2 of 2    |

Mine Geology Services April 17/1999

|                |                            |
|----------------|----------------------------|
| <b>PURPOSE</b> | Test magnetic anomaly M-4. |
|----------------|----------------------------|

# DIAMOND DRILL HOLE LOG

1 of 4

**DEPTH** 42.98m (141 ft.)

| DEPTH | DIP | AZ | DEPTH | DIP | AZ |
|-------|-----|----|-------|-----|----|
|       |     |    |       |     |    |
|       |     |    |       |     |    |
|       |     |    |       |     |    |

Mine Geology Services      July 22/2001

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 14 |
| PAGE NO. | 2 of 4    |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                                                                            | sample<br>no. | DEPTH |       | length | Rec. | Au   | Ag  | Cu | Fe |
|---------|-------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|-------|--------|------|------|-----|----|----|
| FROM    | TO    |           |                                                                                                                                                                                                                                                                                                                        |               | from  | to    | m      | %    | g/t  | g/t | %  | %  |
| 21.89   | 22.60 | 3d/4      | CALC SILICATE SKARN - fine grained light green to green with diopside.<br>Trace fine grained pyrrhotite. Remnant banding from original sediments.<br>Good coring.<br>22.50 banding (=bedding?) @ 45 degs.<br>21.89 contact sharp and regular @ 56 degs.                                                                | 23659         | 21.89 | 22.60 | 0.71   | 100  | 0.02 |     |    |    |
| 22.60   | 23.35 | 3dRPCY    | DIOPSIDE SKARN - dark green medium grained with disseminated<br>pyrrhotite (3%), pyrite (1%), and chalcopyrite (tr), molybdenite (tr).<br>Hard. Good coring.                                                                                                                                                           | 23660         | 22.60 | 23.35 | 0.75   | 100  | 1.22 |     |    |    |
| 23.35   | 23.65 | 3gd       | GARNET SKARN - red/brown coarse grained garnets with fine grained<br>green diopside matrix. Minor epidote. Hard. Good coring.                                                                                                                                                                                          | 23661         | 23.35 | 23.65 | 0.30   | 100  | 0.02 |     |    |    |
| 23.65   | 25.35 | 8\$>      | MONZONITE - white/green medium grained altered (chloritized?).<br>40% mafics. Uniform equigranular texture. Hard. Good coring.                                                                                                                                                                                         |               |       |       |        |      |      |     |    |    |
| 25.35   | 25.98 | 3gd/4     | GARNET DIOPSIDE SKARN - brown and green coarse grained with 5 cm<br>remnants unskarnified altered quartzite.                                                                                                                                                                                                           | 23662         | 25.35 | 25.98 | 0.63   | 100  | 0.00 |     |    |    |
| 25.98   | 26.38 | 1RPC/2qd  | SULPHIDE RICH CALC SILICATE SKARN - green diopside and ?actinolite<br>skarn with grey/green silicified patches containing disseminated specks<br>and blebs pyrrhotite (5%) and pyrite (1%) chalcopyrite (<1%). Similar to<br>high grade siliceous sections in main showing. This looks like it<br>should contain gold. | 23663         | 25.98 | 26.64 | 0.66   | 100  | 1.62 |     |    |    |
| 26.38   | 27.47 | 8fj/3dRC  | FELDSPAR PORPHYRY DYKE - altered and skarnified white/green<br>medium grained feldspathic intrusive with green altered mafics. Thin                                                                                                                                                                                    | 23664         | 26.64 | 27.41 | 0.77   | 100  | 2.55 |     |    |    |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 14 |
| PAGE NO. | 3 of 4    |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                                                                                  | sample<br>no. | DEPTH |       | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
|---------|-------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|-------|-------------|-----------|-----------|-----------|---------|---------|
| FROM    | TO    |           |                                                                                                                                                                                                                                                                                                                              |               | from  | to    |             |           |           |           |         |         |
|         |       |           | stringers (1mm) and disseminated pyrrhotite (1%) +/- chalcopyrite (tr)<br>Euhedral white feldspars up to 2 to 5 cm. Long. Hard. Good coring.                                                                                                                                                                                 |               |       |       |             |           |           |           |         |         |
| 27.47   | 31.50 | 4q/8RY    | HYBRID ZONE - remnants of brown siliceous sediments (angular and rounded) in white/grey matrix with igneous texture (salt and pepper). Partly assimilated quartzite? Disseminated f. grained pyrrhotite (2%) chalcopyrite (tr). Some sections pale green skarnification. Hard. Good coring.<br>31.04 two specks molybdenite. | 23665         | 27.41 | 28.41 | 1.00        | 100       | 0.78      |           |         |         |
| 31.50   | 36.47 | 8^        | MONZONITE - white/grey pinkish with black mafics (10%). Medium grained salt and pepper texture. Weak green skarnification in sections.<br>Good coring.                                                                                                                                                                       |               |       |       |             |           |           |           |         |         |
| 36.47   | 37.83 | 4/3df     | SKARNIFIED QUARTZITE - fine grained siliceous with remnants altered quartzite. Feldspathic throughout (up to 5mm white feldspar phenocrysts)<br>Hard. Good coring.<br>37.60 banding (=bedding?) @ 58 degs.                                                                                                                   |               |       |       |             |           |           |           |         |         |
| 37.83   | 40.35 | 4f/3df    | SKARNIFIED FELDSPATHIC SEDIMENTS - pale green weakly skarnified with diopside? Small subhedral white feldspar phenocrysts. Remnants brown/grey partially altered sediments. Moderate mineral lineation.<br>Hard. Good coring.<br>39.55 banding (=bedding?) @ 71 degs.<br>40.10 banding (=bedding?) @ 62 degs.                |               |       |       |             |           |           |           |         |         |
| 40.35   | 40.75 | 8^        | MONZONITE - white and black medium grained salt and pepper texture.<br>Black mafics becoming altered (skarnified?) to green at end. Good coring.                                                                                                                                                                             |               |       |       |             |           |           |           |         |         |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 14 |
| PAGE NO. | 4 of 4    |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                        | sample<br>no. | DEPTH |       | length | Rec. | R.Q.D. | R.Q.D. |  |  |
|---------|-------|-----------|----------------------------------------------------|---------------|-------|-------|--------|------|--------|--------|--|--|
| FROM    | TO    |           |                                                    |               | from  | to    | m      | %    | m      | %      |  |  |
| 40.75   | 42.98 | 4f/3df    | SKARNIFIED FELDSPATHIC SEDIMENTS - as above. Hard. |               | 0.00  | 3.35  | 0.56   | 17   | 0.26   | 8      |  |  |
|         |       |           | Good coring.                                       |               | 3.35  | 4.88  | 1.53   | 100  | 0.35   | 23     |  |  |
|         |       |           |                                                    |               | 4.88  | 6.40  | 1.52   | 100  | 1.12   | 74     |  |  |
|         |       |           | 42.98 E.O.H.                                       |               | 6.40  | 7.92  | 1.52   | 100  | 1.45   | 95     |  |  |
|         |       |           | AQT core split for assay.                          |               | 7.92  | 9.45  | 1.53   | 100  | 1.37   | 90     |  |  |
|         |       |           | Water return.                                      |               | 9.45  | 10.97 | 1.52   | 100  | 1.42   | 93     |  |  |
|         |       |           |                                                    |               | 10.97 | 12.50 | 1.53   | 100  | 1.43   | 93     |  |  |
|         |       |           |                                                    |               | 12.50 | 14.02 | 1.52   | 100  | 1.43   | 94     |  |  |
|         |       |           |                                                    |               | 14.02 | 15.54 | 1.52   | 100  | 1.43   | 94     |  |  |
|         |       |           |                                                    |               | 15.54 | 17.07 | 1.53   | 100  | 1.45   | 95     |  |  |
|         |       |           |                                                    |               | 17.07 | 18.59 | 1.52   | 100  | 1.00   | 66     |  |  |
|         |       |           |                                                    |               | 18.59 | 20.12 | 1.53   | 100  | 1.25   | 82     |  |  |
|         |       |           |                                                    |               | 20.12 | 21.64 | 1.52   | 100  | 1.32   | 87     |  |  |
|         |       |           |                                                    |               | 21.64 | 23.16 | 1.52   | 100  | 1.45   | 95     |  |  |
|         |       |           |                                                    |               | 23.16 | 24.69 | 1.53   | 100  | 1.30   | 85     |  |  |
|         |       |           |                                                    |               | 24.69 | 26.21 | 1.52   | 100  | 1.06   | 70     |  |  |
|         |       |           |                                                    |               | 26.21 | 27.74 | 1.53   | 100  | 1.26   | 82     |  |  |
|         |       |           |                                                    |               | 27.74 | 29.26 | 1.52   | 100  | 1.37   | 90     |  |  |
|         |       |           |                                                    |               | 29.26 | 30.78 | 1.52   | 100  | 1.36   | 89     |  |  |
|         |       |           |                                                    |               | 30.78 | 32.31 | 1.53   | 100  | 1.53   | 100    |  |  |
|         |       |           |                                                    |               | 32.31 | 33.83 | 1.52   | 100  | 1.48   | 97     |  |  |
|         |       |           |                                                    |               | 33.83 | 35.36 | 1.53   | 100  | 1.49   | 97     |  |  |
|         |       |           |                                                    |               | 35.36 | 36.88 | 1.52   | 100  | 1.52   | 100    |  |  |
|         |       |           |                                                    |               | 36.88 | 38.40 | 1.52   | 100  | 1.42   | 93     |  |  |
|         |       |           |                                                    |               | 38.40 | 39.93 | 1.53   | 100  | 1.07   | 70     |  |  |
|         |       |           |                                                    |               | 39.93 | 41.45 | 1.52   | 100  | 0.92   | 61     |  |  |
|         |       |           |                                                    |               | 41.45 | 42.98 | 1.53   | 100  | 1.53   | 100    |  |  |

|                                                                    |     |                                                                       |       |                             |    |                |  |                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------------------------------------------------|-----|-----------------------------------------------------------------------|-------|-----------------------------|----|----------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------|-----|----|-------|-----|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| PROPERTY _____ Horn Claims                                         |     | <b>CANADIAN UNITED MINERALS INC.</b><br><b>DIAMOND DRILL HOLE LOG</b> |       | MINE _____                  |    | HOLE ID _____  |  | HS 01- 15                                                                                                                                                                                                                                                                                                                                                                                       |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N.T.S. _____ 116 B-7                                               |     |                                                                       |       |                             |    | PAGE NO. _____ |  | 1 of 5                                                                                                                                                                                                                                                                                                                                                                                          |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DATE STARTED _____ June 30/2001                                    |     |                                                                       |       |                             |    |                |  | DIP TESTS<br><table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>DEPTH</td><td>DIP</td><td>AZ</td><td>DEPTH</td><td>DIP</td><td>AZ</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> |  | DEPTH | DIP | AZ | DEPTH | DIP | AZ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DEPTH                                                              | DIP | AZ                                                                    | DEPTH | DIP                         | AZ |                |  |                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                    |     |                                                                       |       |                             |    |                |  |                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                    |     |                                                                       |       |                             |    |                |  |                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                    |     |                                                                       |       |                             |    |                |  |                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DATE COMPLETED _____ July 1/2001                                   |     | LATITUDE _____ 10.0 N                                                 |       | AZ _____ South (grid)       |    |                |  |                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LOGGED BY _____ D.Tenney                                           |     | DEPARTURE _____ 210.0 E                                               |       | DIP _____ -80 degs.         |    |                |  |                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DATE _____ July 1/2001                                             |     | ELEVATION _____ 1884.5m                                               |       | DEPTH _____ 44.5m (146 ft.) |    |                |  |                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PURPOSE _____ Test magnetic anomaly M-4 and coincident skarn zone. |     |                                                                       |       |                             |    |                |  |                                                                                                                                                                                                                                                                                                                                                                                                 |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | sample no. | DEPTH |    | length m | Rec. % | Au g/t | Ag g/t | Cu % | Fe % |
|---------|-------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|----|----------|--------|--------|--------|------|------|
| FROM    | TO    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            | from  | to |          |        |        |        |      |      |
| 0.00    | 23.87 | 5         | MARBLE - white and grey medium and coarse grained mostly banded.<br>White sections are more massive less banded and coarser grained.<br>Soft core. Good coring.<br>2.23 banding (=bedding?) @ 46 degs.<br>4.45 banding (=bedding?) @ 36 degs.<br>5.80 banding (=bedding?) @ 47 degs.<br>7.40 banding (=bedding?) @ 49 degs.<br>9.56 banding (=bedding?) @ 45 degs.<br>11.63 banding (=bedding?) @ 56 degs.<br>14.52 banding (=bedding?) @ 54 degs.<br>16.58 banding (=bedding?) @ 56 degs.<br>17.42 banding (=bedding?) @ 76 degs.<br>18.70 banding (=bedding?) @ 51 degs.<br>20.25 banding (=bedding?) @ 43 degs.<br>21.42 banding (=bedding?) @ 72 degs.<br>23.30 banding (=bedding?) @ 47 degs. |            |       |    |          |        |        |        |      |      |
| 23.87   | 30.15 | 5         | MARBLE - white/grey coarse grained (especially white sections with up to 1cm. calcite crystals). Partly banded. Soft. Good coring.<br>24.43 banding (=bedding?) @ 63 degs. (poor)<br>26.08 banding (=bedding?) @ 58 degs.<br>27.90 banding (=bedding?) @ 56 degs.<br>30.00 banding (=bedding?) @ 45 degs.                                                                                                                                                                                                                                                                                                                                                                                          |            |       |    |          |        |        |        |      |      |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

HOLE ID HS 01- 15

PAGE NO. 2 of 5

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | sample<br>no.  | DEPTH          |                | length<br>m  | Rec.<br>%  | Au<br>g/t     | Ag<br>g/t | Cu<br>%      | Fe<br>%      |
|---------|-------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|--------------|------------|---------------|-----------|--------------|--------------|
| FROM    | TO    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                | from           | to             |              |            |               |           |              |              |
| 30.15   | 31.27 | 3dcR      | DIOPSIDE SKARN - dark green fine to medium grained with minor calcite.<br>Weak banding. 4% blebs and disseminated pyrrhotite often controlled<br>by banding (=bedding?). Disseminated pyrite (1%), and chalcopyrite<br>(<1%). Minor remnants of unskarnified marble. Hard. Good coring.<br>30.87 banding in skarn @ 51 degs.                                                                                                                                                | 23666          | 30.15          | 31.27          | 1.12         | 100        | 0.34          |           |              |              |
| 31.27   | 33.26 | 1RCPF     | SULPHIDES - massive to banded (=bedded?) pyrrhotite (60%) replacing<br>finely banded sediment. Disseminated and patches (2cm) chalcopyrite<br>(3%) and minor disseminated pyrite. Possible marcasite. Rock is weakly<br>calcareous and has numerous euhedral grey quartz crystals (hexagonal<br>cross-sections). Coarse grained grey green fluorite crystals. Good coring.<br>32.15 banding @ 31 degs.                                                                      | 23667<br>23668 | 31.27<br>32.59 | 32.59<br>33.26 | 1.32<br>0.67 | 100<br>100 | 3.69<br>13.46 |           | 0.38<br>0.14 | 36.3<br>24.4 |
| 33.26   | 34.12 | 1RPC/3dR  | MIXED SULPHIDES WITH BANDS DIOPSIDE SKARN - sulphides are<br>mainly finely layered pyrrhotite (5%), pyrite (2%), and chalcopyrite (<1%).<br>Diopside skarn layers from 2 to 10 cm parallel to the bedding in the<br>sulphide rich layers. These are hard and siliceous. Weakly calcareous<br>throughout. Hard. Good coring.<br>33.42 banding @ 26 degs.                                                                                                                     | 23669          | 33.26          | 34.12          | 0.86         | 100        | 4.31          |           | 0.06         | 18.75        |
| 34.12   | 35.26 | 1RPCdg    | SEMI MASSIVE SULPHIDES - green/black/brown silicate skarn with very<br>irregular patches and disseminations of pyrrhotite (25%), blebby pyrite in<br>patches up to 4cm and disseminated (3%), and disseminated<br>chalcopyrite (1%). Rock is partly banded with green diopside and brown<br>garnet. Remnant igneous equigranular texture in last part of section.<br>Non-calcareous. Hard. Good coring.<br>34.75 banding @ 40 degs. (typical) sulphide replacement tends to | 23670          | 34.12          | 35.26          | 1.14         | 100        | 14.84         |           | 0.16         | 23.1         |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 15 |
| PAGE NO. | 3 of 5    |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                                                                      | sample<br>no. | DEPTH |       | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
|---------|-------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|-------|-------------|-----------|-----------|-----------|---------|---------|
| FROM    | TO    |           |                                                                                                                                                                                                                                                                                                                  |               | from  | to    |             |           |           |           |         |         |
|         |       |           | follow the bedding except where more massive.<br>35.0 speck yellow metal questionably identified as native gold.                                                                                                                                                                                                 |               |       |       |             |           |           |           |         |         |
| 35.26   | 35.42 | 3g        | GARNET SKARN - brown medium grained. Hard. Good coring.                                                                                                                                                                                                                                                          | 23671         | 35.26 | 35.70 | 0.44        | 100       | 0.43      |           |         |         |
| 35.42   | 35.70 | 3dgRP     | DIOPSIDE SKARN - dark green with minor brown garnet. Minor disseminated pyrite (2%) and pyrrhotite (2%), mainly near end of section. Hard. Good coring.                                                                                                                                                          |               |       |       |             |           |           |           |         |         |
| 35.70   | 36.14 | 4q<       | QUARTZITE - grey/brown fine grained and cherty with minor green skarnification and alteration.<br>36.25 banding @ 55 degs.                                                                                                                                                                                       | 23672         | 35.70 | 37.15 | 1.45        | 100       | 0.54      |           |         |         |
| 36.14   | 37.28 | 3deg/8°R  | CALC SILICATE SKARN - dark green medium grained diopside skarn with incipient red/brown garnet. Minor epidote patches. Section of altered white monzonite and a larger section of green weakly to moderately altered monzonite with 5% pyrrhotite (towards end). Poor banding at high? angle. Hard. Good coring. |               |       |       |             |           |           |           |         |         |
| 37.28   | 37.80 | 4q<P      | QUARTZITE - as 35.70 to 36.14. 2% disseminated fine grained pyrite. Hard. Good coring.                                                                                                                                                                                                                           |               |       |       |             |           |           |           |         |         |
| 37.80   | 38.45 | 4qf       | SILICEOUS AND FELDSPATHIC SEDIMENTS - altered grey/green partly brown weakly skarnified sediments. Poorly bedded. Jointed. Very hard. Fair coring.                                                                                                                                                               |               |       |       |             |           |           |           |         |         |
| 38.45   | 40.82 | 8^        | MONZONITE - white/grey/black pink tinged salt and pepper texture. Mainly                                                                                                                                                                                                                                         |               |       |       |             |           |           |           |         |         |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 15 |
| PAGE NO. | 4 of 5    |

| FOOTAGE |       | ROCK CODE      | DESCRIPTION                                                               | sample<br>no. | DEPTH |       | length | Rec. | R.Q.D. | R.Q.D. |  |  |
|---------|-------|----------------|---------------------------------------------------------------------------|---------------|-------|-------|--------|------|--------|--------|--|--|
| FROM    | TO    |                |                                                                           |               | from  | to    | m      | %    | m      | %      |  |  |
|         |       |                | clean unaltered. Two short sections green alteration (skarnification?)    |               | 0.00  | 1.83  | 0.40   | 22   | 0.00   | 0      |  |  |
|         |       |                | with strong disseminated fine grained pyrrhotite and traces chalcopyrite. |               | 1.83  | 3.35  | 0.81   | 53   | 0.38   | 25     |  |  |
|         |       |                | Hard. Good coring.                                                        |               | 3.35  | 4.88  | 1.53   | 100  | 0.67   | 44     |  |  |
|         |       |                |                                                                           |               | 4.88  | 6.40  | 1.52   | 100  | 0.97   | 64     |  |  |
| 40.82   | 41.00 | 4qf/3          | SILICEOUS AND FELDSPATHIC SEDIMENTS - as above but weakly                 |               | 6.40  | 7.92  | 1.52   | 100  | 1.48   | 97     |  |  |
|         |       |                | skarnified. Hard. Good coring.                                            |               | 7.92  | 9.45  | 1.53   | 100  | 1.47   | 96     |  |  |
|         |       |                | 40.82 contact @ 50 degs. (sharp and even)                                 |               | 9.45  | 10.97 | 1.52   | 100  | 1.03   | 68     |  |  |
|         |       |                | 41.00 contact @ 33 degs. (sharp and even)                                 |               | 10.97 | 12.50 | 1.53   | 100  | 1.41   | 92     |  |  |
|         |       |                |                                                                           |               | 12.50 | 14.02 | 1.52   | 100  | 1.52   | 100    |  |  |
| 41.00   | 41.45 | 8 <sup>A</sup> | MONZONITE - as above. No alteration or sulphides. Hard. Good coring.      |               | 14.02 | 15.54 | 1.52   | 100  | 1.52   | 100    |  |  |
|         |       |                |                                                                           |               | 15.54 | 17.07 | 1.53   | 100  | 1.40   | 92     |  |  |
| 41.45   | 41.92 | 4qf/3dR        | SKARNIFIED SEDIMENT - pale green fine to medium grained siliceous         |               | 17.07 | 18.59 | 1.52   | 100  | 1.25   | 82     |  |  |
|         |       |                | and feldspathic sediments. Fine grained pyrrhotite (4%) in patches and    |               | 18.59 | 20.12 | 1.53   | 100  | 1.53   | 100    |  |  |
|         |       |                | disseminated with trace chalcopyrite. Hard. Good coring.                  |               | 20.12 | 21.64 | 1.52   | 100  | 1.31   | 86     |  |  |
|         |       |                | 41.45 contact @ 49 degs. (sharp and even)                                 |               | 21.64 | 23.16 | 1.52   | 100  | 1.49   | 98     |  |  |
|         |       |                | 41.92 contact @ 35 degs. (sharp and even)                                 |               | 23.16 | 24.69 | 1.53   | 100  | 1.45   | 95     |  |  |
|         |       |                |                                                                           |               | 24.69 | 26.21 | 1.50   | 99   | 1.45   | 95     |  |  |
| 41.92   | 43.54 | 8 <sup>A</sup> | MONZONITE - as above. No sulphides. Hard. Good coring.                    |               | 26.21 | 27.74 | 1.53   | 100  | 1.23   | 80     |  |  |
|         |       |                |                                                                           |               | 27.74 | 29.36 | 1.52   | 94   | 1.27   | 78     |  |  |
| 43.54   | 44.50 | 4q/3d          | SKARNIFIED SILICEOUS SEDIMENTS - brown and green with pinkish             |               | 29.36 | 30.78 | 1.52   | 107  | 0.78   | 55     |  |  |
|         |       |                | alteration and minor green skarnification. Hard. Good coring.             |               | 30.78 | 32.31 | 1.53   | 100  | 1.19   | 78     |  |  |
|         |       |                |                                                                           |               | 32.31 | 33.83 | 1.52   | 100  | 1.19   | 78     |  |  |
|         |       |                | 44.50 EOH.                                                                |               | 33.83 | 35.36 | 1.53   | 100  | 1.53   | 100    |  |  |
|         |       |                | AQT core.                                                                 |               | 33.83 | 36.88 | 1.52   | 99   | 1.04   | 68     |  |  |
|         |       |                | No water return.                                                          |               | 35.36 | 38.40 | 1.52   | 100  | 0.97   | 84     |  |  |
|         |       |                |                                                                           |               | 36.88 | 39.93 | 1.53   | 101  | 1.53   | 101    |  |  |
|         |       |                |                                                                           |               | 38.40 | 41.45 | 1.52   | 99   | 1.38   | 90     |  |  |

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 15 |
| PAGE NO. | 5 of 5    |

Mine Geology Services      April 17/1999

|                                                                                            |       |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |       |                |             |                         |           |     |           |  |
|--------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------|----------------|-------------|-------------------------|-----------|-----|-----------|--|
| PROPERTY _____ Horn Claims                                                                 |       | <b>CANADIAN UNITED MINERALS INC.</b><br><b>DIAMOND DRILL HOLE LOG</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |       | MINE _____     |             | HOLE ID _____ HS 01- 16 |           |     |           |  |
| N.T.S. _____ 116 B-7                                                                       |       |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |       | PAGE NO. _____ |             | 1 of 3                  |           |     |           |  |
| DATE STARTED _____ July 2/2001                                                             |       |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |       | DIP TESTS      |             |                         |           |     |           |  |
| DATE COMPLETED _____ July 3/2001                                                           |       | LATITUDE _____ 20.1 N                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | AZ _____ South (grid)        |       | DEPTH          | DIP         | AZ                      | DEPTH     | DIP | AZ        |  |
| LOGGED BY _____ D.Tenney                                                                   |       | DEPARTURE _____ 240.0 E                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | DIP _____ -55 degs.          |       |                |             |                         |           |     |           |  |
| DATE _____ July 3/2002                                                                     |       | ELEVATION _____ 1693.0 m                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | DEPTH _____ 32.61m (107 ft.) |       |                |             |                         |           |     |           |  |
| PURPOSE _____ Test magnetic anomaly M-4, coincident skarn, and sulphides in hole HS 01-15. |       |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |       |                |             |                         |           |     |           |  |
| FOOTAGE                                                                                    |       | ROCK CODE                                                             | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | sample<br>no.                | DEPTH |                | length<br>m | Rec.<br>%               | Au<br>g/t |     |           |  |
| FROM                                                                                       | TO    |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              | from  | to             |             |                         |           |     |           |  |
| 0.00                                                                                       | 21.53 | 5>\$                                                                  | MARBLE - white and grey mainly coarse grained and massive with several banded medium grained sections. Soft. Good coring.<br>0.00 - 5.22 broken core.<br>6.00 banding (=bedding?) @ 66 degs.<br>7.25 banding (=bedding?) @ 74 degs.<br>8.54 banding (=bedding?) @ 78 degs.<br>10.20 banding (=bedding?) @ 63 degs.<br>11.88 banding (=bedding?) @ 54 degs.<br>13.25 banding (=bedding?) @ 65 degs.<br>15.76 banding (=bedding?) @ 59 degs.<br>17.55 banding (=bedding?) @ 68 degs.<br>19.17 banding (=bedding?) @ 64 degs.<br>20.00 banding (=bedding?) @ 55 degs.<br>21.48 banding (=bedding?) @ 64 degs. |                              |       |                |             |                         |           |     |           |  |
| 21.53                                                                                      | 21.80 | 1RC/5R                                                                | SULPHIDES - coarse grained white marble with 7cm irregular band semi-massive pyrrhotite (75%). 2% disseminated specks chalcopyrite. Good coring.                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 23747                        | 21.53 | 21.60          | 0.07        | 100                     | 0.03      |     | not split |  |
| 21.60                                                                                      | 25.44 | 5=                                                                    | MARBLE - white and grey mainly banded with numerous white coarse grained sections (0.5 to 5 cm.). Soft. Good coring.<br>21.76 banding (=bedding?) @ 53 degs.<br>23.00 banding (=bedding?) @ 81 degs.                                                                                                                                                                                                                                                                                                                                                                                                       |                              |       |                |             |                         |           |     |           |  |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 16 |
| PAGE NO. | 2 of 3    |

0

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                                                               | sample<br>no. | DEPTH |       | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
|---------|-------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|-------|-------------|-----------|-----------|-----------|---------|---------|
| FROM    | TO    |           |                                                                                                                                                                                                                                                                                                           |               | from  | to    |             |           |           |           |         |         |
|         |       |           | 24.75 banding (=bedding?) @ 50 degs.                                                                                                                                                                                                                                                                      |               |       |       |             |           |           |           |         |         |
|         |       |           | 25.32 banding (=bedding?) @ 52 degs.                                                                                                                                                                                                                                                                      |               |       |       |             |           |           |           |         |         |
|         |       |           | 25.42 banding (=bedding?) @ 80 degs.                                                                                                                                                                                                                                                                      |               |       |       |             |           |           |           |         |         |
| 25.44   | 26.00 | 3d        | CALC SILICATE SKARN - dark green fine grained with diopside. Strongly calcareous at start then rest moderate. Disseminated pyrrhotite (3%), chalcopryite (1%). Hard. Good coring.                                                                                                                         | 23673         | 25.44 | 26.15 | 0.71        | 100       | 0.66      |           |         |         |
|         |       |           | 25.44 contact sharp and even @ 80 degs. (parallel to banding in marble).                                                                                                                                                                                                                                  |               |       |       |             |           |           |           |         |         |
| 26.00   | 26.20 | 3gd       | GARNET DIOPSIDE SKARN - brown with coarse grained garnet in diopside matrix. Hard. Good coring.                                                                                                                                                                                                           |               |       |       |             |           |           |           |         |         |
| 26.20   | 27.00 | 4/3dgRC   | SKARNIFIED QUARTZITE - green and grey mainly banded siliceous. disseminated fine grained pyrrhotite (4%) and chalcopryite (1%) preferentially oriented along bedding planes. Weakly calcareous. Minor incipient brown garnet crystals. Green mineral probably diopside. Minor epidote. Hard. Good coring. | 23674         | 26.15 | 27.00 | 0.85        | 100       | 0.29      |           |         |         |
|         |       |           | 26.60 banding (=bedding?) @ 57 degs.                                                                                                                                                                                                                                                                      |               |       |       |             |           |           |           |         |         |
| 27.00   | 30.29 | 4q<       | QUARTZITE - cherty very fine grained grey with minor green skarn minerals. Disseminated fine grained pyrite and pyrrhotite (1% each). Non calcareous. Hard. Good coring.                                                                                                                                  |               |       |       |             |           |           |           |         |         |
| 30.29   | 32.61 | 8^/3      | WEAKLY SKARNIFIED INTRUSIVE - white monzonite (?) with mafics altered green. Medium grained equigranular igneous texture. Very weak incipient calcite replacement. Hard. Good coring.                                                                                                                     |               |       |       |             |           |           |           |         |         |

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 16 |
| PAGE NO. | 3 of 3    |

Mine Geology Services April 17/1998

| PROPERTY _____ Horn Claims               |     | <b>CANADIAN UNITED MINERALS INC.</b><br><b>DIAMOND DRILL HOLE LOG</b> |       | MINE _____                     |    | HOLE ID _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | HS 01- 17 |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------------------|-----|-----------------------------------------------------------------------|-------|--------------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|--|-----------|--|--|--|--|--|-------|-----|----|-------|-----|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| N.T.S. _____ 116 B-7                     |     |                                                                       |       |                                |    | PAGE NO. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | 1 of 4    |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DATE STARTED _____ July 4/2001           |     | LATITUDE _____ 20.5 N                                                 |       | AZ _____ South (grid)          |    | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="6">DIP TESTS</th> </tr> <tr> <th>DEPTH</th> <th>DIP</th> <th>AZ</th> <th>DEPTH</th> <th>DIP</th> <th>AZ</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> |  |           |  | DIP TESTS |  |  |  |  |  | DEPTH | DIP | AZ | DEPTH | DIP | AZ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DIP TESTS                                |     |                                                                       |       |                                |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |           |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DEPTH                                    | DIP | AZ                                                                    | DEPTH | DIP                            | AZ |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |           |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                          |     |                                                                       |       |                                |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |           |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                          |     |                                                                       |       |                                |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |           |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                          |     |                                                                       |       |                                |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |           |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                          |     |                                                                       |       |                                |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |           |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DATE COMPLETED _____ July 12/2001        |     | DEPARTURE _____ 240.0 E                                               |       | DIP _____ -79 degs (Br)        |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |           |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LOGGED BY _____ D.Tenney                 |     | ELEVATION _____ 1693.0 m                                              |       | DEPTH _____ 42.60 m (140 feet) |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |           |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DATE _____ July 12/2001                  |     |                                                                       |       |                                |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |           |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PURPOSE _____ Test magnetic anomaly M-4. |     |                                                                       |       |                                |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |           |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                 | sample<br>no. | DEPTH |    | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
|---------|-------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|----|-------------|-----------|-----------|-----------|---------|---------|
| FROM    | TO    |           |                                                                                                                                             |               | from  | to |             |           |           |           |         |         |
| 0.00    | 22.93 | 5=        | MARBLE - grey to white medium to coarse grained (whiter sections) mainly banded (=bedding?) @ 50 degs.                                      |               |       |    |             |           |           |           |         |         |
|         |       |           | 2.24 banding (=bedding?) @ 50 degs.                                                                                                         |               |       |    |             |           |           |           |         |         |
|         |       |           | 4.10 banding (=bedding?) @ 63 degs.                                                                                                         |               |       |    |             |           |           |           |         |         |
|         |       |           | 5.61 banding (=bedding?) @ 57 degs.                                                                                                         |               |       |    |             |           |           |           |         |         |
|         |       |           | 7.18 banding (=bedding?) @ 46 degs.                                                                                                         |               |       |    |             |           |           |           |         |         |
|         |       |           | 8.48 banding (=bedding?) @ 58 degs.                                                                                                         |               |       |    |             |           |           |           |         |         |
|         |       |           | 10.32 banding (=bedding?) @ 41 degs. (compositional banding)                                                                                |               |       |    |             |           |           |           |         |         |
|         |       |           | 14.00 banding (=bedding?) @ 57 degs.                                                                                                        |               |       |    |             |           |           |           |         |         |
|         |       |           | 15.80 banding (=bedding?) @ 58 degs.                                                                                                        |               |       |    |             |           |           |           |         |         |
|         |       |           | 17.54 banding (=bedding?) @ 45 degs.                                                                                                        |               |       |    |             |           |           |           |         |         |
|         |       |           | 18.77 banding (=bedding?) @ 39 degs.                                                                                                        |               |       |    |             |           |           |           |         |         |
|         |       |           | 20.06 banding (=bedding?) @ 50 degs.                                                                                                        |               |       |    |             |           |           |           |         |         |
|         |       |           | 21.50 banding (=bedding?) @ 50 degs.                                                                                                        |               |       |    |             |           |           |           |         |         |
| 22.93   | 23.04 | 5/4R      | MARBLE - with irregular bands of silification (quartzite?) with fine grained disseminated pyrrhotite (3%). Trace chalcopyrite. Good coring. |               |       |    |             |           |           |           |         |         |
| 23.04   | 28.08 | 5=        | MARBLE - as 0.00 to 22.93. White sections are very coarse grained. Mostly banded.                                                           |               |       |    |             |           |           |           |         |         |
|         |       |           | 24.45 banding (=bedding?) @ 44 degs.                                                                                                        |               |       |    |             |           |           |           |         |         |
|         |       |           | 26.47 banding (=bedding?) @ 52 degs.                                                                                                        |               |       |    |             |           |           |           |         |         |
|         |       |           | 28.00 banding (=bedding?) @ 59 degs.                                                                                                        |               |       |    |             |           |           |           |         |         |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 17 |
| PAGE NO. | 2 of 4    |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | sample<br>no.  | DEPTH          |                | length<br>m  | Rec.<br>%  | Au<br>g/t    | Ag<br>g/t | Cu<br>% | Fe<br>% |
|---------|-------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|--------------|------------|--------------|-----------|---------|---------|
| FROM    | TO    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                | from           | to             |              |            |              |           |         |         |
| 28.08   | 28.55 | 1RP5SCcX  | MASSIVE SULPHIDES - pyrite (15%), pyrrhotite (15%) marcasite ?(15%)<br>Massive pyrrhotite with replacement by brassy marcasite or fine grained<br>pyrite along cleavage/fractures. - "island texture". Pyrite mainly coarse<br>grained and partly fragmented especially in calcareous section near end.<br>Weakly brecciated with minor limonite. Vuggy. Honey brown siderite<br>(25%). Sulphides truncate banding in marble at about 30 degrees at<br>start of section. Jointed core. fair coring. | 23675          | 28.08          | 28.55          | 0.47         | 100        | 0.86         |           | 0.10    | 4.29    |
| 28.55   | 37.70 | 5=        | MARBLE - as above. Nearly all grey and banded. Good coring.<br>30.00 banding (=bedding ?) @ 52 degs.<br>31.79 banding (=bedding ?) @ 52 degs.<br>33.22 banding (=bedding ?) @ 50 degs.<br>34.62 banding (=bedding ?) @ 54 degs.<br>36.62 banding (=bedding ?) @ 59 degs.<br>37.63 banding (=bedding ?) @ 63 degs.                                                                                                                                                                                   |                |                |                |              |            |              |           |         |         |
| 37.70   | 40.13 | 3dRC      | DIOPSIDE SKARN - dull light apple green fine grained - weak banding in<br>places. Disseminated fine grained pyrrhotite throughout (3%), incipient<br>calcite (3%), Minor red/brown garnet. Remnant irregular white and black<br>intrusive fragment at end. Good coring.<br>37.70 contact @ 65 degs.<br>38.22 Banding @ 57 degs.<br>39.32 banding @ 74 degs.<br>39.40 banding @ 61 degs.                                                                                                             | 23676<br>23677 | 37.70<br>38.91 | 38.91<br>40.13 | 1.21<br>1.22 | 100<br>100 | 0.10<br>0.07 |           |         |         |
| 40.13   | 42.39 | 4qfmb     | SILICEOUS AND FELDSPATHIC SEDIMENTS - grey to dark grey medium<br>hardness. Weakly skarnified green with fine grained black biotite in                                                                                                                                                                                                                                                                                                                                                              |                |                |                |              |            |              |           |         |         |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 17 |
| PAGE NO. | 3 of 4    |

| FOOTAGE |       | ROCK CODE      | DESCRIPTION                                                   | sample<br>no. | DEPTH |       | length | Rec. | R.Q.D. | R.Q.D. | Cu | Fe |
|---------|-------|----------------|---------------------------------------------------------------|---------------|-------|-------|--------|------|--------|--------|----|----|
| FROM    | TO    |                |                                                               |               | from  | to    | m      | %    | m      | %      | %  | %  |
|         |       |                | sections. Trace pyrrhotite. Fair coring. Moderate jointing.   |               | 0.00  | 0.91  | 0.14   | 15   | 0.00   | 0      |    |    |
|         |       |                |                                                               |               | 0.91  | 2.44  | 0.69   | 45   | 0.11   | 7      |    |    |
| 42.39   | 42.60 | 8 <sup>A</sup> | MONZONITE - medium grained white with 15% black mafics. Hard. |               | 2.44  | 3.96  | 1.36   | 89   | 1.17   | 77     |    |    |
|         |       |                | Good coring.                                                  |               | 3.96  | 5.49  | 1.53   | 100  | 1.31   | 86     |    |    |
|         |       |                | 42.39 contact at 54 degs. (parallel to banding in sediments). |               | 5.49  | 7.01  | 1.52   | 100  | 1.47   | 97     |    |    |
|         |       |                |                                                               |               | 7.01  | 8.53  | 1.52   | 100  | 1.52   | 100    |    |    |
|         |       |                | 42.60 E.O.H.                                                  |               | 8.53  | 10.06 | 1.53   | 100  | 1.46   | 95     |    |    |
|         |       |                | A.Q.T. core. Split for assay.                                 |               | 10.06 | 11.58 | 1.52   | 100  | 1.41   | 93     |    |    |
|         |       |                | Hole abandoned when core barrel lost at bottom of hole.       |               | 11.58 | 13.11 | 1.53   | 100  | 1.35   | 88     |    |    |
|         |       |                | Some water return mainly nearer top of hole.                  |               | 13.11 | 14.63 | 1.52   | 100  | 1.47   | 97     |    |    |
|         |       |                |                                                               |               | 14.63 | 16.15 | 1.52   | 100  | 1.27   | 84     |    |    |
|         |       |                |                                                               |               | 16.15 | 17.68 | 1.53   | 100  | 1.53   | 100    |    |    |
|         |       |                |                                                               |               | 17.68 | 19.20 | 1.52   | 100  | 1.52   | 100    |    |    |
|         |       |                |                                                               |               | 19.20 | 20.73 | 1.53   | 100  | 1.39   | 91     |    |    |
|         |       |                |                                                               |               | 20.73 | 22.25 | 1.52   | 100  | 1.43   | 94     |    |    |
|         |       |                |                                                               |               | 22.25 | 23.77 | 1.52   | 100  | 1.52   | 100    |    |    |
|         |       |                |                                                               |               | 23.77 | 25.30 | 1.53   | 100  | 1.53   | 100    |    |    |
|         |       |                |                                                               |               | 25.30 | 26.82 | 1.52   | 100  | 1.52   | 100    |    |    |
|         |       |                |                                                               |               | 26.82 | 28.35 | 1.53   | 100  | 1.32   | 86     |    |    |
|         |       |                |                                                               |               | 28.35 | 29.87 | 1.52   | 100  | 1.00   | 66     |    |    |
|         |       |                |                                                               |               | 29.87 | 31.39 | 1.52   | 100  | 1.37   | 90     |    |    |
|         |       |                |                                                               |               | 31.39 | 32.92 | 1.53   | 100  | 1.53   | 100    |    |    |
|         |       |                |                                                               |               | 32.92 | 34.44 | 1.52   | 100  | 1.46   | 96     |    |    |
|         |       |                |                                                               |               | 34.44 | 35.97 | 1.53   | 100  | 1.27   | 83     |    |    |
|         |       |                |                                                               |               | 35.97 | 37.49 | 1.52   | 100  | 1.48   | 97     |    |    |
|         |       |                |                                                               |               | 37.49 | 39.01 | 1.52   | 100  | 1.29   | 85     |    |    |
|         |       |                |                                                               |               | 39.01 | 40.54 | 1.53   | 100  | 1.20   | 78     |    |    |

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 17 |
| PAGE NO. | 4 of 4    |

Mine Geology Services      April 17/1999

|                                          |  |                                                                       |  |                               |  |                |     |          |       |     |    |
|------------------------------------------|--|-----------------------------------------------------------------------|--|-------------------------------|--|----------------|-----|----------|-------|-----|----|
| PROPERTY _____ Horn Claims               |  | <b>CANADIAN UNITED MINERALS INC.</b><br><b>DIAMOND DRILL HOLE LOG</b> |  | MINE _____                    |  | HOLE ID _____  |     | HS 01-18 |       |     |    |
| N.T.S. _____ 116 B-7                     |  |                                                                       |  |                               |  | PAGE NO. _____ |     | 1 of 5   |       |     |    |
| DATE STARTED _____ July 12/2001          |  |                                                                       |  |                               |  | DIP TESTS      |     |          |       |     |    |
| DATE COMPLETED _____ July 14/2001        |  | LATITUDE _____ 40.7 N                                                 |  | AZ _____ South (grid)         |  | DEPTH          | DIP | AZ       | DEPTH | DIP | AZ |
| LOGGED BY _____ D.Tenney                 |  | DEPARTURE _____ 270.0 E                                               |  | DIP _____ -50 degs. (Br.)     |  |                |     |          |       |     |    |
| DATE _____ July 14/2001                  |  | ELEVATION _____ 1699.5 m                                              |  | DEPTH _____ 44.5 m (146 feet) |  |                |     |          |       |     |    |
| PURPOSE _____ Test magnetic anomaly M-4. |  |                                                                       |  |                               |  |                |     |          |       |     |    |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                                                               | sample<br>no. | DEPTH |    | length<br>m | Rec.<br>% |  |  |  |  |
|---------|-------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|----|-------------|-----------|--|--|--|--|
| FROM    | TO    |           |                                                                                                                                                                                                                                                                                                           |               | from  | to |             |           |  |  |  |  |
| 0.00    | 1.93  | OB/4--    | OVERBURDEN - rubble, mainly grey quartzite.                                                                                                                                                                                                                                                               |               |       |    |             |           |  |  |  |  |
| 1.93    | 4.29  | 4q-       | QUARTZITE - mainly grey with rough banding. Hard. Well jointed to broken core.<br>4.00 banding (=bedding?) @ 70 degs.                                                                                                                                                                                     |               |       |    |             |           |  |  |  |  |
| 4.29    | 4.37  | 2dPRZY/4q | SKARNIFIED QUARTZITE - pale grey with irregular bands and patches fine grained diopside (30%) and fine grained disseminated sulphides. Pyrite (3%); pyrrhotite (1%); spahalerite (1%); molybdenite (tr). Hard. Good coring.                                                                               |               |       |    |             |           |  |  |  |  |
| 4.37    | 5.19  | 4q<       | QUARTZITE - light grey to brown very fine grained and cherty. Hard. Fair to good coring.                                                                                                                                                                                                                  |               |       |    |             |           |  |  |  |  |
| 5.19    | 5.22  | 3dZPRC    | DIOPSIDE SKARN - 3cm band dark green fine grained diopside with fine grained disseminated sphalerite (5%), pyrite (1%), pyrrhotite (1%), chalcopryite (tr). Hard. Good coring.<br>5.19 Irregular contact (healed?) with quartzite at high angle.<br>5.22 contact with marble sharp and regular @ 34 degs. |               |       |    |             |           |  |  |  |  |
| 5.22    | 33.47 | 5=        | MARBLE - grey and white medium to coarse grained nearly all banded at high angles.<br>5.45 banding (=bedding?) @ 56 degs.                                                                                                                                                                                 |               |       |    |             |           |  |  |  |  |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |          |
|----------|----------|
| HOLE ID  | HS 01-18 |
| PAGE NO. | 2 of 5   |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                          | sample<br>no. | DEPTH |       | length | Rec. | Au   | Ag  | Cu    | Fe |
|---------|-------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|-------|--------|------|------|-----|-------|----|
| FROM    | TO    |           |                                                                                                                                                                                                                                                                                                                                                                      |               | from  | to    | m      | %    | g/t  | g/t | %     | %  |
|         |       |           | 7.01 banding (=bedding?) @ 61 degs.                                                                                                                                                                                                                                                                                                                                  |               |       |       |        |      |      |     |       |    |
|         |       |           | 8.30 banding (=bedding?) @ 68 degs.                                                                                                                                                                                                                                                                                                                                  |               |       |       |        |      |      |     |       |    |
|         |       |           | 10.12 banding (=bedding?) @ 70 degs.                                                                                                                                                                                                                                                                                                                                 |               |       |       |        |      |      |     |       |    |
|         |       |           | 11.65 banding (=bedding?) @ 79 degs.                                                                                                                                                                                                                                                                                                                                 |               |       |       |        |      |      |     |       |    |
|         |       |           | 13.15 banding (=bedding?) @ 77 degs.                                                                                                                                                                                                                                                                                                                                 |               |       |       |        |      |      |     |       |    |
|         |       |           | 15.00 banding (=bedding?) @ 68 degs.                                                                                                                                                                                                                                                                                                                                 |               |       |       |        |      |      |     |       |    |
|         |       |           | 17.00 banding (=bedding?) @ 68 degs.                                                                                                                                                                                                                                                                                                                                 |               |       |       |        |      |      |     |       |    |
|         |       |           | 19.82 banding (=bedding?) @ 58 degs.                                                                                                                                                                                                                                                                                                                                 |               |       |       |        |      |      |     |       |    |
|         |       |           | 21.53 banding (=bedding?) @ 58 degs.                                                                                                                                                                                                                                                                                                                                 |               |       |       |        |      |      |     |       |    |
|         |       |           | 23.42 banding (=bedding?) @ 55 degs.                                                                                                                                                                                                                                                                                                                                 |               |       |       |        |      |      |     |       |    |
|         |       |           | 24.10 banding (=bedding?) @ 72 degs.                                                                                                                                                                                                                                                                                                                                 |               |       |       |        |      |      |     |       |    |
|         |       |           | 26.45 banding (=bedding?) @ 78 degs.                                                                                                                                                                                                                                                                                                                                 |               |       |       |        |      |      |     |       |    |
|         |       |           | 27.98 banding (=bedding?) @ 78 degs.                                                                                                                                                                                                                                                                                                                                 |               |       |       |        |      |      |     |       |    |
|         |       |           | 29.58 banding (=bedding?) @ 78 degs.                                                                                                                                                                                                                                                                                                                                 |               |       |       |        |      |      |     |       |    |
|         |       |           | 30.54 banding (=bedding?) @ 69 degs. (strong)                                                                                                                                                                                                                                                                                                                        |               |       |       |        |      |      |     |       |    |
|         |       |           | 31.27 banding (=bedding?) @ 68 degs.                                                                                                                                                                                                                                                                                                                                 |               |       |       |        |      |      |     |       |    |
|         |       |           | 33.22 banding (=bedding?) @ 66 degs.                                                                                                                                                                                                                                                                                                                                 |               |       |       |        |      |      |     |       |    |
|         |       |           | 34.60 banding (=bedding?) @ 66 degs.                                                                                                                                                                                                                                                                                                                                 |               |       |       |        |      |      |     |       |    |
| 33.47   | 36.25 | 5+>-      | MARBLE - mainly white very coarse grained massive and recrystallized.<br>Minor rust. Well jointed part broken.                                                                                                                                                                                                                                                       |               |       |       |        |      |      |     |       |    |
| 36.25   | 36.54 | 1RPSC     | MASSIVE SULPHIDES - (75%) Brassy dull metallic ?marcasite (or fine<br>grained pyrite?) (35%), fine grained pale yellow pyrite (25%) and<br>disseminated specks and small blebs chalcopryite. Minor magnetic<br>pyrrhotite (5%). Marcasite replaces pyrite and pyrrhotite which are left as<br>small islands (island texture). Small vugs (3%). Small euhedral quartz | 23678         | 36.25 | 36.54 | 0.29   | 100  | 0.07 |     | 0.047 |    |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |          |
|----------|----------|
| HOLE ID  | HS 01-18 |
| PAGE NO. | 3 of 5   |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                        | sample no. | DEPTH |       | length m | Rec. % | Au g/t | Ag g/t | Cu % | Fe % |
|---------|-------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|-------|----------|--------|--------|--------|------|------|
| FROM    | TO    |           |                                                                                                                                                                                                                                                                                                                                                                                                                    |            | from  | to    |          |        |        |        |      |      |
|         |       |           | crystals. Weakly calcareous and weakly magnetic. Moderately hard. Good coring.                                                                                                                                                                                                                                                                                                                                     |            |       |       |          |        |        |        |      |      |
| 36.54   | 36.81 | 2csX      | VEIN? - breccia with large (5cm+) calcite crystals and smaller dolomitized fragments. Very minor sulphides. Soft. Fair coring.                                                                                                                                                                                                                                                                                     | 23679      | 36.54 | 36.81 | 0.27     | 100    | 0.00   |        |      |      |
| 36.81   | 37.95 | 3d/1RPCQF | DIOPSIDE SKARN (50%) with sections near massive sulphides, some running along the core. Diopside contains specks and blebs of pyrrhotite. Sulphide rich sections are siliceous with euhedral quartz crystals. Rock is magnetic and contains on average 15 % sulphides (12% pyrrhotite; 2% chalcopryite; 1% pyrite). Very dark green euhedral fluorite crystals (2%). Rock is weakly calcareous. Hard. Good coring. | 23680      | 36.81 | 37.95 | 1.14     | 100    | 0.24   |        | 0.02 | 1.03 |
| 37.95   | 38.40 | 3dc       | DIOPSIDE SKARN - dark apple green fine grained with patches white calcite (5%) and clear grey quartz (5%) as euhedral crystals. Minor dark dark green epidote? Trace/no sulphides.                                                                                                                                                                                                                                 | 23681      | 37.95 | 38.40 | 0.45     | 100    | 0.00   |        |      |      |
| 38.40   | 38.80 | 1RCQ/3d   | SEM MASSIVE SULPHIDES - in diopside skarn. Siliceous and weakly calcareous with large grey quartz crystals. Specks and few coarse patches pyrrhotite with irregular spidery texture. Very large 2cm quartz crystals from 38.46 to 38.56 with associated coarse grained pyrrhotite.                                                                                                                                 | 23682      | 38.40 | 38.80 | 0.40     | 100    | 2.30   |        | 0.06 | 1.84 |
| 38.80   | 39.20 | 3dg       | GARNET DIOPSIDE SKARN - brown/red and dark green fine grained diopside with coarse grained garnet. Trace pyrrhotite. Hard. Good coring.                                                                                                                                                                                                                                                                            |            |       |       |          |        |        |        |      |      |
| 39.20   | 40.23 | 3gd/8^    | SKARNIFIED INTRUSIVE - garnet diopside skarn with remnant igneous texture. Green diopside and brown garnet. Hard. Good coring.                                                                                                                                                                                                                                                                                     |            |       |       |          |        |        |        |      |      |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

HOLE ID HS 01-18

PAGE NO. 4 of 5

| FOOTAGE |       | ROCK CODE         | DESCRIPTION                                                                                                                                                                                                               | sample<br>no. | DEPTH |       | length | Rec. | Au   | Ag  | Cu | Fe |
|---------|-------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|-------|--------|------|------|-----|----|----|
| FROM    | TO    |                   |                                                                                                                                                                                                                           |               | from  | to    | m      | %    | g/t  | g/t | %  | %  |
| 40.23   | 41.17 | 8 <sup>A</sup> /3 | SKARNIFIED MONZONITE - 30-40% green mafics (skarnified) in white matrix. Medium grained igneous texture. Hard. Good coring.                                                                                               |               | 0.00  | 1.83  | 0.50   | 27   | 0.00 | 0   |    |    |
|         |       |                   |                                                                                                                                                                                                                           |               | 1.83  | 3.96  | 1.25   | 59   | 0.21 | 59  |    |    |
|         |       |                   |                                                                                                                                                                                                                           |               | 3.96  | 4.42  | 0.46   | 100  | 0.28 | 100 |    |    |
| 41.17   | 41.49 | 3dR/8/4           | HYBRID ZONE - green and brown moderately skarnified and altered monzonite with 2cm band (at end) of disseminated pyrrhotite and traces pyrite and chalcopyrite. Remnants of brown siliceous sediments. Hard. Good coring. |               | 4.42  | 5.18  | 0.76   | 100  | 0.48 | 100 |    |    |
|         |       |                   |                                                                                                                                                                                                                           |               | 5.18  | 6.71  | 1.53   | 100  | 1.33 | 100 |    |    |
|         |       |                   |                                                                                                                                                                                                                           |               | 6.71  | 8.23  | 1.52   | 100  | 1.16 | 100 |    |    |
|         |       |                   |                                                                                                                                                                                                                           |               | 8.23  | 9.75  | 1.52   | 100  | 1.52 | 100 |    |    |
|         |       |                   |                                                                                                                                                                                                                           |               | 9.75  | 11.28 | 1.52   | 99   | 1.52 | 99  |    |    |
| 41.49   | 44.50 | 4q                | SILICEOUS SEDIMENTS - grey/brown fine grained with minor disseminated pyrite. Some pink and light green sections of alteration. Fair coring but well jointed.                                                             |               | 11.28 | 12.80 | 1.52   | 100  | 1.40 | 100 |    |    |
|         |       |                   |                                                                                                                                                                                                                           |               | 12.80 | 14.33 | 1.53   | 100  | 1.44 | 100 |    |    |
|         |       |                   |                                                                                                                                                                                                                           |               | 14.33 | 15.85 | 1.50   | 99   | 1.25 | 99  |    |    |
|         |       |                   |                                                                                                                                                                                                                           |               | 15.85 | 17.37 | 1.52   | 100  | 1.52 | 100 |    |    |
|         |       |                   | 44.50 E.O.H.                                                                                                                                                                                                              |               | 17.37 | 18.90 | 1.53   | 100  | 1.53 | 100 |    |    |
|         |       |                   | A.Q.T. core split for assay.                                                                                                                                                                                              |               | 18.90 | 20.42 | 1.52   | 100  | 1.44 | 100 |    |    |
|         |       |                   | No water return.                                                                                                                                                                                                          |               | 20.42 | 21.95 | 1.53   | 100  | 1.53 | 100 |    |    |
|         |       |                   |                                                                                                                                                                                                                           |               | 21.95 | 23.47 | 1.42   | 93   | 0.55 | 93  |    |    |
|         |       |                   |                                                                                                                                                                                                                           |               | 23.47 | 24.99 | 1.52   | 100  | 1.52 | 100 |    |    |
|         |       |                   |                                                                                                                                                                                                                           |               | 24.99 | 26.52 | 1.53   | 100  | 1.53 | 100 |    |    |
|         |       |                   |                                                                                                                                                                                                                           |               | 26.52 | 28.04 | 1.52   | 100  | 1.52 | 100 |    |    |
|         |       |                   |                                                                                                                                                                                                                           |               | 28.04 | 29.57 | 1.53   | 100  | 1.48 | 100 |    |    |
|         |       |                   |                                                                                                                                                                                                                           |               | 29.57 | 31.09 | 1.52   | 100  | 1.52 | 100 |    |    |
|         |       |                   |                                                                                                                                                                                                                           |               | 31.09 | 32.61 | 1.52   | 100  | 1.52 | 100 |    |    |
|         |       |                   |                                                                                                                                                                                                                           |               | 32.61 | 34.14 | 1.53   | 100  | 0.92 | 60  |    |    |
|         |       |                   |                                                                                                                                                                                                                           |               | 34.14 | 35.66 | 1.52   | 100  | 0.80 | 53  |    |    |
|         |       |                   |                                                                                                                                                                                                                           |               | 35.66 | 37.19 | 1.53   | 100  | 0.74 | 48  |    |    |
|         |       |                   |                                                                                                                                                                                                                           |               | 37.19 | 38.71 | 1.52   | 100  | 1.40 | 92  |    |    |
|         |       |                   |                                                                                                                                                                                                                           |               | 38.71 | 40.23 | 1.52   | 100  | 1.45 | 95  |    |    |

|          |          |
|----------|----------|
| HOLE ID  | HS 01-18 |
| PAGE NO. | 5 of 5   |

Mine Geology Services      April 17/1999

|                                          |  |                                                                                                                                                                    |  |                |               |        |           |     |    |
|------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------|---------------|--------|-----------|-----|----|
| PROPERTY _____ Horn Claims               |  | <b>CANADIAN UNITED MINERALS INC.</b><br><b>DIAMOND DRILL HOLE LOG</b>                                                                                              |  | MINE _____     | HOLE ID _____ |        | HS 01- 19 |     |    |
| N.T.S. _____ 116 B-7                     |  |                                                                                                                                                                    |  | PAGE NO. _____ |               | 1 of 3 |           |     |    |
| DATE STARTED _____ July 14/2001          |  | LATITUDE _____ 41.0 N      AZ _____ South (grid)<br>DEPARTURE _____ 270.0 E      DIP _____ -77 degs<br>ELEVATION _____ 1699.5m      DEPTH _____ 43.28 m (142 feet) |  | DIP TESTS      |               |        |           |     |    |
| DATE COMPLETED _____ July 15/2001        |  |                                                                                                                                                                    |  | DEPTH          | DIP           | AZ     | DEPTH     | DIP | AZ |
| LOGGED BY _____ D.Tenney                 |  |                                                                                                                                                                    |  |                |               |        |           |     |    |
| DATE _____ July 17/2001                  |  |                                                                                                                                                                    |  |                |               |        |           |     |    |
| PURPOSE _____ Test magnetic anomaly M-4. |  |                                                                                                                                                                    |  |                |               |        |           |     |    |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                                                                                                  | sample<br>no. | DEPTH |    | length<br>m | Rec.<br>% | R.Q.D.<br>m | R.Q.D.<br>% |  |  |
|---------|-------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|----|-------------|-----------|-------------|-------------|--|--|
| FROM    | TO    |           |                                                                                                                                                                                                                                                                                                                                              |               | from  | to |             |           |             |             |  |  |
| 0.00    | 2.08  | OB        | OVERBURDEN - rubble from talus mainly in 1 to 3 cm pieces. Black<br>?graphitic quartzite is commonest. Few pieces white/brown quartzite<br>at start.                                                                                                                                                                                         |               |       |    |             |           |             |             |  |  |
| 2.08    | 6.80  | 7q        | QUARTZITE - mainly dark grey to black fine grained with moderate banding<br>Hard well jointed core.<br>3.08 banding (=bedding?) @ 52 degs. - poor.<br>3.38 banding (=bedding?) @ 54 degs. - irregular.<br>6.16 banding (=bedding?) @ 50 degs. - good.                                                                                        |               |       |    |             |           |             |             |  |  |
| 6.80    | 6.97  | 3tgd      | CALC SILICATE SKARN - white green and brown with ?tremolite, diopside<br>and coarse grained garnet. Traces fine grained pyrrhotite and<br>chalcopyrite. Hard. Good coring.<br>6.80 contact irregular at high angle 71 degs.<br>6.97 contact at 39 degs.                                                                                      |               |       |    |             |           |             |             |  |  |
| 6.97    | 34.59 | 5         | MARBLE - grey medium grained partly banded (=bedded?) with minor<br>coarse grained massive white sections. Soft. Mainly good coring.<br>7.07 banding (=bedding?) @ 59 degs.<br>9.01 banding (=bedding?) @ 68 degs.<br>14.0-15.0 banding at low angle to core.<br>15.35 banding (=bedding?) @ 15 degs.<br>16.24 banding (=bedding?) @ 7 degs. |               |       |    |             |           |             |             |  |  |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 19 |
| PAGE NO. | 2 of 3    |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                            | sample<br>no. | DEPTH |       | length | rec. | R.Q.D. | R.Q.D. |  |  |
|---------|-------|-----------|------------------------------------------------------------------------|---------------|-------|-------|--------|------|--------|--------|--|--|
| FROM    | TO    |           |                                                                        |               | from  | to    | m      | %    | m      | %      |  |  |
|         |       |           | 17.75 banding (=bedding?) @ 27 degs.                                   |               | 0.00  | 0.61  | 0.20   | 33   | 0.00   | 0      |  |  |
|         |       |           | 19.30 banding (=bedding?) @ 33 degs.                                   |               | 0.61  | 1.83  | 0.86   | 70   | 0.21   | 17     |  |  |
|         |       |           | 20.85 banding (=bedding?) @ 38 degs. - good.                           |               | 1.83  | 3.05  | 0.98   | 80   | 0.34   | 28     |  |  |
|         |       |           | 22.55 banding (=bedding?) @ 50 degs.                                   |               | 3.05  | 4.57  | 1.52   | 100  | 0.33   | 22     |  |  |
|         |       |           | 23.38 banding (=bedding?) @ 46 degs. - good.                           |               | 4.57  | 6.10  | 1.53   | 100  | 0.20   | 13     |  |  |
|         |       |           | 24.88 banding (=bedding?) @ 48 degs.                                   |               | 6.10  | 7.62  | 1.52   | 100  | 0.87   | 57     |  |  |
|         |       |           | 26.73 banding (=bedding?) @ 50 degs.                                   |               | 7.62  | 9.14  | 1.52   | 100  | 0.84   | 55     |  |  |
|         |       |           | 28.14 banding (=bedding?) @ 53 degs.                                   |               | 9.14  | 10.67 | 1.53   | 100  | 1.18   | 77     |  |  |
|         |       |           | 29.66 banding (=bedding?) @ 55 degs.                                   |               | 10.67 | 12.19 | 1.52   | 100  | 1.27   | 84     |  |  |
|         |       |           | 31.45 banding (=bedding?) @ 54 degs.                                   |               | 12.19 | 13.72 | 1.53   | 100  | 1.33   | 87     |  |  |
|         |       |           | 32.85 banding (=bedding?) @ 51 degs. - very good.                      |               | 13.72 | 15.24 | 1.52   | 100  | 1.52   | 100    |  |  |
|         |       |           | 34.32 banding (=bedding?) @ 49 degs.                                   |               | 15.24 | 16.76 | 1.52   | 100  | 1.34   | 88     |  |  |
|         |       |           | This section of marble generally more massive and less banded than in  |               | 16.76 | 18.29 | 1.53   | 100  | 1.53   | 100    |  |  |
|         |       |           | holes HS-01-14 to HS-01-18.                                            |               | 18.29 | 19.81 | 1.48   | 97   | 1.38   | 91     |  |  |
|         |       |           |                                                                        |               | 19.81 | 21.34 | 1.46   | 95   | 1.26   | 82     |  |  |
| 34.59   | 34.86 | 5/3dsR    | MARBLE - moderately skarnified brown and green with garnet and         |               | 21.34 | 22.86 | 1.52   | 100  | 1.52   | 100    |  |  |
|         |       |           | diopside and ?serpentine. Trace fine grained disseminated pyrrhotite   |               | 22.86 | 24.38 | 1.52   | 100  | 1.52   | 100    |  |  |
|         |       |           | (<1%).                                                                 |               | 24.38 | 25.91 | 1.53   | 100  | 1.38   | 90     |  |  |
|         |       |           |                                                                        |               | 25.91 | 27.43 | 1.52   | 100  | 1.29   | 85     |  |  |
| 34.86   | 35.40 | 3dg       | DIOPSIDE GARNET SKARN - pale green fine grained diopside with          |               | 27.43 | 28.96 | 1.53   | 100  | 1.53   | 100    |  |  |
|         |       |           | uniform texture and bands of coarse grained brown garnet mainly nearer |               | 28.96 | 30.48 | 1.52   | 100  | 1.52   | 100    |  |  |
|         |       |           | end.                                                                   |               | 30.48 | 32.00 | 1.52   | 100  | 1.42   | 93     |  |  |
|         |       |           | 35.33 banding in skarn @ 59 degs.                                      |               | 32.00 | 33.53 | 1.53   | 100  | 1.15   | 75     |  |  |
|         |       |           |                                                                        |               | 33.53 | 35.05 | 1.52   | 100  | 1.52   | 100    |  |  |
| 35.40   | 36.07 | 4q<*\$    | WHITE QUARTZITE - very fine grained. Hard. Good coring.                |               | 35.05 | 36.58 | 1.53   | 100  | 1.11   | 73     |  |  |
|         |       |           |                                                                        |               | 36.58 | 38.10 | 1.52   | 100  | 1.14   | 75     |  |  |
| 36.07   | 36.30 | 5mqR/3    | MARBLE - white to grey weakly skarnified green in patches.             |               | 38.10 | 39.62 | 1.52   | 100  | 1.00   | 66     |  |  |

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 19 |
| PAGE NO. | 3 of 3    |

Mine Geology Services April 17/1999

|                                           |  |                                      |  |                                 |  |          |           |    |
|-------------------------------------------|--|--------------------------------------|--|---------------------------------|--|----------|-----------|----|
| PROPERTY <u>Horn Claims</u>               |  | <b>CANADIAN UNITED MINERALS INC.</b> |  | MINE                            |  | HOLE ID  | HS 01- 20 |    |
| N.T.S. <u>116 B-7</u>                     |  | <b>DIAMOND DRILL HOLE LOG</b>        |  |                                 |  | PAGE NO. | 1 of 5    |    |
| DATE STARTED <u>July 16/2001</u>          |  |                                      |  | DIP TESTS                       |  |          |           |    |
| DATE COMPLETED <u>July 24/2001</u>        |  | LATITUDE <u>62.0 N</u>               |  | AZ <u>North (grid)</u>          |  | DEPTH    | DIP       | AZ |
| LOGGED BY <u>D.Tenney</u>                 |  | DEPARTURE <u>273.0 E</u>             |  | DIP <u>-51.5 degs</u>           |  |          |           |    |
| DATE <u>July 24/2001</u>                  |  | ELEVATION <u>1701.6 m</u>            |  | DEPTH <u>80.16 m (263 feet)</u> |  |          |           |    |
| PURPOSE <u>Test magnetic anomaly M-3.</u> |  |                                      |  |                                 |  |          |           |    |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                               | sample no. | DEPTH |       | length | Rec. | R.Q.D. | R.Q.D. |  |  |
|---------|-------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|-------|--------|------|--------|--------|--|--|
| FROM    | TO    |           |                                                                                                                                           |            | from  | to    | m      | %    | m      | %      |  |  |
| 0.00    | 0.58  | OB        | OVERBURDEN - rubble of black quartzite and white monzonite.                                                                               |            | 0.00  | 1.52  | 1.21   | 80   | 0.39   | 26     |  |  |
|         |       |           |                                                                                                                                           |            | 1.52  | 3.05  | 1.38   | 90   | 0.00   | 0      |  |  |
| 0.58    | 5.43  | 7-        | SILICEOUS BLACK ARGILLITE - fine grained well jointed with rust on joints. Jointed to broken core. Possible low graphite content.         |            | 3.05  | 4.57  | 1.35   | 89   | 0.13   | 9      |  |  |
|         |       |           | 1.52 banding (=bedding?) @ 23 degs.                                                                                                       |            | 4.57  | 6.10  | 1.53   | 100  | 0.24   | 16     |  |  |
|         |       |           | 3.70 banding (=bedding?) @ 20 degs.                                                                                                       |            | 6.10  | 7.62  | 1.52   | 100  | 0.74   | 49     |  |  |
|         |       |           |                                                                                                                                           |            | 7.62  | 9.14  | 1.52   | 100  | 0.45   | 30     |  |  |
|         |       |           |                                                                                                                                           |            | 9.14  | 10.67 | 1.53   | 100  | 1.30   | 85     |  |  |
| 5.43    | 6.36  | 8<        | MONZONITE DYKE - white with 10% black mafics and salt and pepper texture. Medium/fine grained. Hard. Moderate jointing. Good coring.      |            | 10.67 | 12.19 | 1.52   | 100  | 0.94   | 62     |  |  |
|         |       |           | Contacts not sharp but probably at high angle.                                                                                            |            | 12.19 | 13.72 | 1.53   | 100  | 1.48   | 97     |  |  |
|         |       |           |                                                                                                                                           |            | 13.72 | 15.24 | 1.52   | 100  | 1.31   | 86     |  |  |
|         |       |           |                                                                                                                                           |            | 15.24 | 16.76 | 1.52   | 100  | 1.19   | 78     |  |  |
| 6.36    | 7.62  | 7qpP-     | SILICEOUS BLACK ARGILLITE - minor thin white quartz veins.                                                                                |            | 16.76 | 18.29 | 1.53   | 100  | 1.22   | 80     |  |  |
|         |       |           | 1% disseminated fine grained pyrite cubes. Well jointed and partly broken.                                                                |            | 18.29 | 19.81 | 1.52   | 100  | 1.03   | 68     |  |  |
|         |       |           | 7.25 banding (=bedding?) @ 6 degs.                                                                                                        |            | 19.81 | 21.34 | 1.53   | 100  | 0.77   | 50     |  |  |
|         |       |           |                                                                                                                                           |            | 21.34 | 22.86 | 1.15   | 76   | 0.64   | 42     |  |  |
| 7.62    | 9.14  | 7qpRCZ    | SILICEOUS BLACK ARGILLITE - fine grained as above. Partly graphitic (?)                                                                   |            | 22.86 | 24.38 | 1.52   | 100  | 1.17   | 77     |  |  |
|         |       |           | Disseminated fine grained pyrrhotite (1%), chalcopyrite (tr) sphalerite (tr)                                                              |            | 24.38 | 25.91 | 1.53   | 100  | 1.14   | 75     |  |  |
|         |       |           | Pronounced well developed bedding in places. Hard. Good coring.                                                                           |            | 25.91 | 26.21 | 0.30   | 100  | 0.30   | 100    |  |  |
|         |       |           | Sulphides related, to dyke intrusion?                                                                                                     |            | 26.21 | 27.74 | 1.53   | 100  | 1.50   | 98     |  |  |
|         |       |           | 8.16 banding (=bedding?) @ 26 degs.                                                                                                       |            | 27.74 | 29.26 | 1.52   | 100  | 1.33   | 87     |  |  |
| 9.14    | 36.49 | 7         | SILICEOUS BLACK ARGILLITE - fine grained possibly very weakly graphitic. Minor layers brown fine grained biotite at start. Partly banded. |            | 29.26 | 30.78 | 1.52   | 100  | 1.52   | 100    |  |  |
|         |       |           | Trace fine grained disseminated pyrite and sphalerite. Short sections                                                                     |            | 30.78 | 32.31 | 1.53   | 100  | 1.41   | 92     |  |  |
|         |       |           |                                                                                                                                           |            | 32.31 | 33.83 | 1.52   | 100  | 1.12   | 74     |  |  |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

HOLE ID HS 01- 20

PAGE NO. 2 of 5

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                            | sample no. | DEPTH |       | length | Rec. | R.Q.D. | R.Q.D. |  |  |
|---------|-------|-----------|------------------------------------------------------------------------|------------|-------|-------|--------|------|--------|--------|--|--|
| FROM    | TO    |           |                                                                        |            | from  | to    | m      | %    | m      | %      |  |  |
|         |       |           | bleached. 1-3mm white quartz stringers in irregular fracture zones are |            | 33.83 | 35.36 | 1.53   | 100  | 1.22   | 80     |  |  |
|         |       |           | common. Occasional microbreccia. Hard. Good coring.                    |            | 35.36 | 36.88 | 1.52   | 100  | 1.36   | 89     |  |  |
|         |       |           | 10.04 banding (=bedding?) @ 27 degs.                                   |            | 36.88 | 38.40 | 1.52   | 100  | 1.32   | 87     |  |  |
|         |       |           | 14.23 banding (=bedding?) @ 46 degs. (Fine)                            |            | 38.40 | 39.93 | 1.53   | 100  | 1.39   | 91     |  |  |
|         |       |           | 16.48 poor banding @ 24 degs.                                          |            | 39.93 | 41.45 | 1.52   | 100  | 1.36   | 89     |  |  |
|         |       |           | 19.48 banding (=bedding?) @ 31 degs.                                   |            | 41.45 | 42.98 | 1.53   | 100  | 1.48   | 97     |  |  |
|         |       |           | 21.65 banding (=bedding?) @ 31 degs.                                   |            | 42.98 | 44.50 | 1.52   | 100  | 1.45   | 95     |  |  |
|         |       |           | 22.80 banding (=bedding?) @ 16 degs.                                   |            | 44.50 | 46.02 | 1.52   | 100  | 1.35   | 89     |  |  |
|         |       |           | 25.18 banding (=bedding?) @ 27 degs.                                   |            | 46.02 | 47.55 | 1.53   | 100  | 0.52   | 34     |  |  |
|         |       |           | 27.10 banding (=bedding?) @ 39 degs.                                   |            | 47.55 | 49.07 | 1.52   | 100  | 0.60   | 39     |  |  |
|         |       |           | 31.47 banding (=bedding?) @ 31 degs.                                   |            | 49.07 | 50.60 | 1.53   | 100  | 0.87   | 57     |  |  |
|         |       |           | 33.42 banding (=bedding?) @ 30 degs. - good.                           |            | 50.60 | 52.12 | 1.52   | 100  | 1.27   | 84     |  |  |
|         |       |           | 35.77 banding (=bedding?) @ 23 degs. - poor.                           |            | 52.12 | 53.64 | 1.52   | 100  | 0.94   | 62     |  |  |
|         |       |           |                                                                        |            | 53.64 | 55.17 | 1.53   | 100  | 0.78   | 51     |  |  |
| 36.49   | 36.70 | 8f        | DYKE - white/grey feldspathic dyke with 2cm by 0.5cm white subhedral   |            | 55.17 | 56.39 | 1.22   | 100  | 0.00   | 0      |  |  |
|         |       |           | feldspar phenocrysts. 1% disseminated fine grained pyrrhotite.         |            | 56.39 | 57.91 | 1.52   | 100  | 1.11   | 73     |  |  |
|         |       |           | Hard. Good coring.                                                     |            | 57.91 | 59.44 | 1.53   | 100  | 1.43   | 93     |  |  |
|         |       |           | 36.49 contact sharp and planar @ 66 degs. (chilled?)                   |            | 59.44 | 60.96 | 1.52   | 100  | 1.40   | 92     |  |  |
| 36.70   | 47.78 | 7g        | BLACK QUARTZITE - fine grained banded (=bedded?) in places.            |            | 60.96 | 62.48 | 1.52   | 100  | 1.38   | 91     |  |  |
|         |       |           | Possible very low graphite or carbonaceous content. Irregular 1-2mm    |            | 62.48 | 64.01 | 1.53   | 100  | 0.94   | 61     |  |  |
|         |       |           | white veinlets intermittently in core. Few patches quartz veining and  |            | 64.01 | 65.53 | 1.52   | 100  | 1.19   | 78     |  |  |
|         |       |           | replacement. 1% disseminated fine grained pyrrhotite. Hard. Good       |            | 65.53 | 67.06 | 1.53   | 100  | 1.36   | 89     |  |  |
|         |       |           | coring.                                                                |            | 67.06 | 68.58 | 1.52   | 100  | 1.34   | 88     |  |  |
|         |       |           | 37.17 banding (=bedding?) @ 34degs.                                    |            | 68.58 | 70.10 | 1.52   | 100  | 1.00   | 66     |  |  |
|         |       |           | 38.71 banding (=bedding?) @ 47 degs. - composition and grain size.     |            | 70.10 | 71.63 | 1.53   | 100  | 1.47   | 96     |  |  |
|         |       |           | 38.84 - 38.89 8f - small granitic dyke similar to above.               |            | 71.63 | 73.15 | 1.52   | 100  | 1.42   | 93     |  |  |
|         |       |           | Parallels bedding @ 64 degs.                                           |            | 73.15 | 74.68 | 1.53   | 100  | 1.16   | 76     |  |  |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 20 |
| PAGE NO. | 3 of 5    |

| FOOTAGE |       | ROCK CODE        | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                            | sample<br>no. | DEPTH |       | length | Rec. | R.Q.D. | R.Q.D. | Cu | Fe |
|---------|-------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|-------|--------|------|--------|--------|----|----|
| FROM    | TO    |                  |                                                                                                                                                                                                                                                                                                                                                                                        |               | from  | to    | m      | %    | m      | %      | %  | %  |
|         |       |                  | 41.58 banding (=bedding?) @ 61 degs.                                                                                                                                                                                                                                                                                                                                                   |               | 74.68 | 76.20 | 1.52   | 100  | 0.88   | 58     |    |    |
|         |       |                  | 42.38 banding (=bedding?) @ 38 degs.                                                                                                                                                                                                                                                                                                                                                   |               | 76.20 | 77.72 | 1.52   | 100  | 1.11   | 73     |    |    |
|         |       |                  |                                                                                                                                                                                                                                                                                                                                                                                        |               | 77.72 | 79.25 | 1.53   | 100  | 0.77   | 50     |    |    |
| 47.78   | 48.30 | 4qbRP            | SILICIFIED ZONE - in sediments. Light grey green with 90% cherty quartz.<br>3% fine grained disseminated pyrite/pyrrhotite. Traces red/brown garnet<br>in 2mm crystals. Hard. Good coring.                                                                                                                                                                                             |               | 79.25 | 80.16 | 0.91   | 100  | 0.88   | 97     |    |    |
| 48.30   | 50.64 | 7q               | BLACK QUARTZITE - fine grained very hard with varying amounts of<br>silicification/recrystallization. 1% fine grained disseminated pyrrhotite.<br>Partly fractured but mainly good coring.                                                                                                                                                                                             |               |       |       |        |      |        |        |    |    |
| 50.64   | 51.10 | 4q/7             | SILICIFIED ZONE - in altered quartzite gradational into next section. Grey<br>and black fine grained with 2% disseminated fine grained pyrrhotite.<br>Hard. Good coring.                                                                                                                                                                                                               |               |       |       |        |      |        |        |    |    |
| 51.10   | 52.52 | 4qR <sup>+</sup> | ALTERED QUARTZITE - grey brown "pink" fine grained with microclastic<br>texture in places (about 1mm glassy rounded quartz grains in a fine<br>siliceous matrix). Rock is weakly skarnified green in places and has 2%<br>fine grained disseminated pyrrhotite. Hard. Good coring.                                                                                                     |               |       |       |        |      |        |        |    |    |
| 52.52   | 56.92 | 4/3dgt-          | SKARNIFIED QUARTZITE - white and pale green and brown fine to coarse<br>grained skarn with extensive remnants brown/"pink" altered quartzite.<br>White skarn mineral possibly felted masses coarse grained radiating<br>tremolite crystals. Heavy patches of dark brown garnet towards end.<br>Hard. Well jointed. Fair coring.<br>56.92 undulating contact at low angle about 6 degs. |               |       |       |        |      |        |        |    |    |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 20 |
| PAGE NO. | 4 of 5    |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                         | sample<br>no. | DEPTH |    | length | Rec. | Au  | Ag  | Cu | Fe |
|---------|-------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|----|--------|------|-----|-----|----|----|
| FROM    | TO    |           |                                                                                                                                                                                                                                                                                                                                                                     |               | from  | to | m      | %    | g/t | g/t | %  | %  |
| 56.92   | 60.23 | 5=        | MARBLE - dark grey medium to fine grained and banded. Two small patches altered green quartzite. Soft. Good coring.<br>58.20 banding (=bedding?) @ 24 degs.<br>58.67 banding (=bedding?) @ 17 degs.                                                                                                                                                                 |               |       |    |        |      |     |     |    |    |
| 60.23   | 61.50 | 4qRCc     | ALTERED QUARTZITE - light brown/grey fine grained with minor green skarnification. Fine grained disseminated pyrrhotite sometimes in patches with or without fine grained chalcopyrite. Light green fluorite on fracture(?). Minor calcite. Mainly hard. Good coring.<br>Contact with marble visible along core at 60.58 m.                                         |               |       |    |        |      |     |     |    |    |
| 61.50   | 66.60 | 5         | MARBLE - medium grained speckled grey with minor banding at low angles. Soft. Good coring.<br>61.70 banding (=bedding?) @ 15 degs.<br>62.76 banding (=bedding?) @ 16 degs.<br>63.57 banding (=bedding?) @ 15 degs.<br>65.25 banding (=bedding?) along core at ± 0 degs.<br>66.60 ~2mm band disseminated pyrrhotite on contact with trace fine grained chalcopyrite. |               |       |    |        |      |     |     |    |    |
| 66.60   | 68.56 | 7qR       | QUARTZITE - grey to dark grey cherty with 3% fine grained pyrrhotite mainly on joints. Hard. Good coring.                                                                                                                                                                                                                                                           |               |       |    |        |      |     |     |    |    |
| 68.56   | 69.94 | 7q        | QUARTZITE - dark grey fine grained with minor ?graphite.<br>Hard. Good coring.                                                                                                                                                                                                                                                                                      |               |       |    |        |      |     |     |    |    |
| 69.94   | 71.65 | 4q<□      | QUARTZITE - light grey fine grained quartzite with microclastic texture.                                                                                                                                                                                                                                                                                            |               |       |    |        |      |     |     |    |    |

|          |          |
|----------|----------|
| HOLE ID  | HS 01-20 |
| PAGE NO. | 5 of 5   |

Mine Geology Services April 17/1999

|                                                                              |  |                                                                                                                                                                          |  |            |     |                         |       |     |    |
|------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|-----|-------------------------|-------|-----|----|
| PROPERTY _____ Horn Claims                                                   |  | <b>CANADIAN UNITED MINERALS INC.</b><br><b>DIAMOND DRILL HOLE LOG</b>                                                                                                    |  | MINE _____ |     | HOLE ID _____ HS 01- 21 |       |     |    |
| N.T.S. _____ 116 B-7                                                         |  |                                                                                                                                                                          |  |            |     | PAGE NO. _____ 1 of 5   |       |     |    |
| DATE STARTED _____ July 24/2001                                              |  | LATITUDE _____ 33.5 N      AZ _____ South (grid)<br>DEPARTURE _____ 210.0E      DIP _____ -74 degs. (Br)<br>ELEVATION _____ 1688.0 m      DEPTH _____ 59.74 m (196 feet) |  | DIP TESTS  |     |                         |       |     |    |
| DATE COMPLETED _____ July 28/2001                                            |  |                                                                                                                                                                          |  | DEPTH      | DIP | AZ                      | DEPTH | DIP | AZ |
| LOGGED BY _____ D. Tenney                                                    |  |                                                                                                                                                                          |  |            |     |                         |       |     |    |
| DATE _____ July 25/2001                                                      |  |                                                                                                                                                                          |  |            |     |                         |       |     |    |
| PURPOSE _____ Test magnetic anomaly M-4 below intersection in hole HS-01-15. |  |                                                                                                                                                                          |  |            |     |                         |       |     |    |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                              | sample no. | DEPTH |       | length | Rec. | R.Q.D. | R.Q.D. |  |  |
|---------|-------|-----------|------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|-------|--------|------|--------|--------|--|--|
| FROM    | TO    |           |                                                                                                                                          |            | from  | to    | m      | %    | m      | %      |  |  |
| 0.00    | 1.20  | OB        | OVERBURDEN - rubble, poor recovery, mainly black quartzite.                                                                              |            | 0.00  | 1.52  | 0.50   | 33   | 0.00   | 0      |  |  |
|         |       |           |                                                                                                                                          |            | 1.52  | 1.98  | 0.32   | 70   | 0.00   | 0      |  |  |
| 1.20    | 4.57  | 5=-       | MARBLE - grey and white medium grained and banded with few coarse grained white sections. Very jointed. Fair coring.                     |            | 1.98  | 3.55  | 1.57   | 100  | 0.21   | 13     |  |  |
|         |       |           | 1.50 banding (=bedding?) @ 46 degs.                                                                                                      |            | 3.55  | 4.57  | 1.02   | 100  | 0.47   | 46     |  |  |
|         |       |           | 2.48 banding (=bedding?) @ 37 degs.                                                                                                      |            | 4.57  | 6.10  | 1.45   | 95   | 0.96   | 63     |  |  |
|         |       |           | 3.50 banding (=bedding?) @ 44 degs.                                                                                                      |            | 6.10  | 7.62  | 1.52   | 100  | 1.02   | 67     |  |  |
|         |       |           | 4.52 banding (=bedding?) @ 46 degs.                                                                                                      |            | 7.62  | 9.14  | 1.52   | 100  | 1.16   | 76     |  |  |
|         |       |           |                                                                                                                                          |            | 9.14  | 10.67 | 1.53   | 100  | 1.47   | 96     |  |  |
|         |       |           |                                                                                                                                          |            | 10.67 | 12.19 | 1.52   | 100  | 1.46   | 96     |  |  |
| 4.57    | 12.57 | 5=/5>     | MARBLE - grey and white banded with massive coarse grained white sections. Mainly good coring.                                           |            | 12.19 | 13.72 | 1.53   | 100  | 1.47   | 96     |  |  |
|         |       |           | 6.00 banding (=bedding?) @ 63 degs.                                                                                                      |            | 13.72 | 15.24 | 1.52   | 100  | 0.51   | 34     |  |  |
|         |       |           | 7.55 banding (=bedding?) @ 53 degs.                                                                                                      |            | 15.24 | 16.76 | 1.52   | 100  | 0.88   | 58     |  |  |
|         |       |           | 9.42 banding (=bedding?) @ 56 degs.                                                                                                      |            | 16.76 | 18.29 | 1.53   | 100  | 1.37   | 90     |  |  |
|         |       |           | 10.97 banding (=bedding?) @ 35 degs.                                                                                                     |            | 18.29 | 19.81 | 1.52   | 100  | 1.52   | 100    |  |  |
|         |       |           |                                                                                                                                          |            | 19.81 | 21.34 | 1.53   | 100  | 1.36   | 89     |  |  |
|         |       |           |                                                                                                                                          |            | 21.34 | 22.86 | 1.52   | 100  | 1.24   | 82     |  |  |
| 12.57   | 12.60 | 2QP<%     | QUARTZ VEIN - white/pale grey rusty with minor vugs (3%). Disseminated very fine grained pyrite clusters with small (<1mm) pyrite cubes. |            | 22.86 | 24.38 | 1.52   | 100  | 1.36   | 89     |  |  |
|         |       |           | Weathered with clay minerals. Vein at 3 degs. To core.                                                                                   |            | 24.38 | 25.91 | 1.53   | 100  | 0.75   | 49     |  |  |
|         |       |           |                                                                                                                                          |            | 25.91 | 27.43 | 1.52   | 100  | 1.47   | 97     |  |  |
|         |       |           |                                                                                                                                          |            | 27.43 | 28.96 | 1.53   | 100  | 1.19   | 78     |  |  |
| 12.60   | 48.84 | 5>/5=     | MARBLE - white to pale grey mainly coarse grained (5 -10mm crystals).                                                                    |            | 28.96 | 30.48 | 1.52   | 100  | 1.45   | 95     |  |  |
|         |       |           | Some rough banding. Soft. Good coring.                                                                                                   |            | 30.48 | 32.00 | 1.52   | 100  | 1.52   | 100    |  |  |
|         |       |           | 13.50 banding (=bedding?) @ 52.degs.                                                                                                     |            | 32.00 | 33.53 | 1.53   | 100  | 1.41   | 92     |  |  |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

HOLE ID HS 01- 21

PAGE NO. 2 of 5

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                 | sample<br>no. | DEPTH |       | length | Rec. | R.Q.D. | R.Q.D. | Cu | Fa |
|---------|-------|-----------|-----------------------------------------------------------------------------------------------------------------------------|---------------|-------|-------|--------|------|--------|--------|----|----|
| FROM    | TO    |           |                                                                                                                             |               | from  | to    | m      | %    | m      | %      | %  | %  |
|         |       |           | 14.83 banding (=bedding?) @ 67 degs.                                                                                        |               | 33.53 | 35.05 | 1.52   | 100  | 1.31   | 86     |    |    |
|         |       |           | 16.70 banding (=bedding?) @ 58 degs.                                                                                        |               | 35.05 | 36.57 | 1.52   | 100  | 1.50   | 99     |    |    |
|         |       |           | 18.10 banding (=bedding?) @ 57 degs.                                                                                        |               | 36.57 | 38.10 | 1.53   | 100  | 1.47   | 96     |    |    |
|         |       |           | 20.66 banding (=bedding?) @ 59 degs.                                                                                        |               | 38.10 | 39.62 | 1.52   | 100  | 1.52   | 100    |    |    |
|         |       |           | 22.60 banding (=bedding?) @ 63 degs.                                                                                        |               | 39.62 | 41.15 | 1.53   | 100  | 1.47   | 96     |    |    |
|         |       |           | 23.14 banding (=bedding?) @ 62 degs.                                                                                        |               | 41.15 | 42.67 | 1.52   | 100  | 1.52   | 100    |    |    |
|         |       |           | 25.04 banding (=bedding?) @ 59 degs.                                                                                        |               | 42.67 | 44.20 | 1.53   | 100  | 1.53   | 100    |    |    |
|         |       |           | 26.29 banding (=bedding?) @ 58 degs.                                                                                        |               | 44.20 | 45.72 | 1.52   | 100  | 1.52   | 100    |    |    |
|         |       |           | Poorest banding and coarse grain size from 27.5 to 31.5.                                                                    |               | 45.72 | 47.24 | 1.52   | 100  | 1.13   | 74     |    |    |
|         |       |           | 27.90 banding (=bedding?) @ 59 degs.                                                                                        |               | 47.24 | 48.77 | 1.53   | 100  | 1.15   | 75     |    |    |
|         |       |           | 29.95 banding (=bedding?) @ 60 degs.                                                                                        |               | 48.77 | 50.29 | 1.52   | 100  | 1.27   | 84     |    |    |
|         |       |           | 30.77 banding (=bedding?) @ 56 degs.                                                                                        |               | 50.29 | 51.82 | 1.53   | 100  | 1.28   | 84     |    |    |
|         |       |           | 32.34 banding (=bedding?) @ 57 degs.                                                                                        |               | 51.82 | 53.34 | 1.46   | 96   | 1.26   | 83     |    |    |
|         |       |           | 33.96 banding (=bedding?) @ 68 degs.                                                                                        |               | 53.34 | 54.86 | 1.52   | 100  | 0.68   | 45     |    |    |
|         |       |           | 35.44 banding (=bedding?) @ 60 degs.                                                                                        |               | 54.86 | 56.39 | 1.53   | 100  | 1.53   | 100    |    |    |
|         |       |           | 36.64 banding (=bedding?) @ 66 degs.                                                                                        |               | 56.39 | 57.91 | 1.52   | 100  | 1.52   | 100    |    |    |
|         |       |           | 38.44 banding (=bedding?) @ 77 degs.                                                                                        |               | 57.91 | 59.44 | 1.53   | 100  | 1.53   | 100    |    |    |
|         |       |           | 39.81 banding (=bedding?) @ 70 degs.                                                                                        |               | 59.44 | 59.74 | 0.30   | 100  | 0.30   | 100    |    |    |
|         |       |           | 41.38 banding (=bedding?) @ 79 degs.                                                                                        |               |       |       |        |      |        |        |    |    |
|         |       |           | 42.80 banding (=bedding?) @ 75 degs.                                                                                        |               |       |       |        |      |        |        |    |    |
|         |       |           | 44.50 banding (=bedding?) @ 76 degs.                                                                                        |               |       |       |        |      |        |        |    |    |
|         |       |           | 45.05 banding (=bedding?) @ 83 degs.                                                                                        |               |       |       |        |      |        |        |    |    |
|         |       |           | 47.18 banding (=bedding?) @ 66 degs.                                                                                        |               |       |       |        |      |        |        |    |    |
|         |       |           | 48.72 banding (=bedding?) @ 47 degs.                                                                                        |               |       |       |        |      |        |        |    |    |
| 48.84   | 48.88 | 3gd       | GARNET DIOPSIDE SKARN - band of brown coarse grained garnet with<br>1cm bands fine grained green diopside on both contacts. |               |       |       |        |      |        |        |    |    |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 21 |
| PAGE NO. | 3 of 5    |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                             | sample<br>no. | DEPTH |       | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
|---------|-------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|-------|-------------|-----------|-----------|-----------|---------|---------|
| FROM    | TO    |           |                                                                                                                                                                                                                                                         |               | from  | to    |             |           |           |           |         |         |
|         |       |           | 48.84 contact @ 60 degs.                                                                                                                                                                                                                                |               |       |       |             |           |           |           |         |         |
|         |       |           | 48.88 contact @ 66 degs.                                                                                                                                                                                                                                |               |       |       |             |           |           |           |         |         |
| 48.88   | 50.96 | 5>        | MARBLE - mainly white coarse grained with patchy rough banding.<br>Good coring.<br>49.95 banding (=beding?) @ 75 degs.<br>50.90 banding (=bedding?) @ 76 degs.                                                                                          |               |       |       |             |           |           |           |         |         |
| 50.96   | 51.24 | 1RCS      | MASSIVE SULPHIDES - 75% massive coarse grained brown magnetic pyrrhotite with 2 - 5mm mainly angular pieces chalcopyrite (4%). Patches very fine grained ?marcasite(5%); pyrite (3%); with blebs of milky white quartz/carbonate. Jointed. Fair Coring. | 23683         | 50.96 | 51.24 | 0.28        | 100       | 0.07      |           |         |         |
| 51.24   | 51.56 | 5RCq      | MARBLE - white/cream silicified with minor vugs (3%). Few large clots of pyrrhotite (4%) with or without chalcopyrite (2%). Good coring.<br>51.24 irregular contact @~ 38 degs.                                                                         | 23684         | 51.24 | 51.56 | 0.32        | 100       | 0.03      |           |         |         |
| 51.56   | 51.86 | 3dc       | DIOPSIDE SKARN - apple green fine grained with trace fine grained disseminated pyrrhotite and chalcopyrite. Incipient calcite. Good coring.<br>51.86 contact @ 76 degs.                                                                                 | 23685         | 51.56 | 51.86 | 0.30        | 100       | 0.14      |           |         |         |
| 51.86   | 52.02 | 1RCq      | MASSIVE SULPHIDES - heavy fine grained pyrrhotite (40%) with specks and a few blebs of chalcopyrite. Irregular "island" texture. Matrix is siliceous. Sparse 3mm quartz crystals. Good coring.                                                          | 23686         | 51.86 | 52.02 | 0.16        | 100       | 0.07      |           |         |         |
| 52.02   | 52.57 | 3dc       | DIOPSIDE SKARN - as above. Good coring.                                                                                                                                                                                                                 | 23687         | 52.02 | 52.57 | 0.55        | 100       | 0.07      |           |         |         |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |          |
|----------|----------|
| HOLE ID  | HS 01-21 |
| PAGE NO. | 4 of 5   |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                                                             | sample<br>no. | DEPTH |       | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
|---------|-------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|-------|-------------|-----------|-----------|-----------|---------|---------|
| FROM    | TO    |           |                                                                                                                                                                                                                                                                                                         |               | from  | to    |             |           |           |           |         |         |
| 52.57   | 52.91 | 1RCq      | MASSIVE SULPHIDES - 55% brown magnetic pyrrhotite both coarse and fine grained. Large coarse grained blebs (2cm) chalcopyrite (3%) at start. Also fine grained disseminated chalcopyrite. Siliceous matrix. Hard. Good coring.                                                                          | 23688         | 52.57 | 53.12 | 0.55        | 100       | 0.65      |           |         |         |
| 52.91   | 53.01 | 3gde      | CALC SILICATE SKARN - brown coarse grained garnet with green diopside and yellow/green epidote. Hard. Good coring.                                                                                                                                                                                      |               |       |       |             |           |           |           |         |         |
| 53.01   | 53.12 | 1RC/3d/4  | SEMI MASSIVE SULPHIDES - in green strongly skarnified quartzite. 15% fine grained pyrrhotite disseminated and partly banded with fine grained disseminated chalcopyrite (2%). Siliceous matrix with green diopside. Hard. Good coring.                                                                  |               |       |       |             |           |           |           |         |         |
| 53.12   | 54.30 | 4qdR-     | QUARTZITE - grey/brown/green fine grained banded and weakly skarnified with diopside. Siliceous. Specks and few bands fine grained pyrrhotite. Hard. Well jointed. Fair coring.                                                                                                                         | 23689         | 53.12 | 54.30 | 1.18        | 100       | 0.34      |           |         |         |
| 54.30   | 54.78 | 3d/1RC/8  | SULPHIDE ZONE - brown and green fine grained skarnified quartzite grading into skarnified intrusive with remnant medium grained igneous texture. Diopside with minor brown garnet. Fine grained disseminated pyrrhotite (10%) and chalcopyrite (<1%) with partially banded sections. Hard. Good coring. | 23690         | 54.30 | 54.78 | 0.48        | 100       | 2.09      |           |         |         |
| 54.78   | 58.01 | 8RC       | MONZONITE - medium grained salt and pepper texture, tinged green with weak skarnification. Minor disseminated pyrrhotite and chalcopyrite with or without minor white/grey quartz replacement. Hard. Very good coring.                                                                                  |               |       |       |             |           |           |           |         |         |

|          |          |
|----------|----------|
| HOLE ID  | HS 01-21 |
| PAGE NO. | 5 of 5   |

[illegible]

|                                                                            |  |                                                                       |  |                                 |  |                |  |           |     |    |
|----------------------------------------------------------------------------|--|-----------------------------------------------------------------------|--|---------------------------------|--|----------------|--|-----------|-----|----|
| PROPERTY _____ Horn Claims                                                 |  | <b>CANADIAN UNITED MINERALS INC.</b><br><b>DIAMOND DRILL HOLE LOG</b> |  | MINE _____                      |  | HOLE ID _____  |  | HS 01- 22 |     |    |
| N.T.S. _____ 116 B-7                                                       |  |                                                                       |  |                                 |  | PAGE NO. _____ |  | 1 of 7    |     |    |
| DATE STARTED _____ July 28/2001                                            |  |                                                                       |  |                                 |  | DIP TESTS      |  |           |     |    |
| DATE COMPLETED _____ Aug 1/2001                                            |  | LATITUDE _____ 33.9 N                                                 |  | AZ _____ Vertical               |  |                |  | DEPTH     | DIP | AZ |
| LOGGED BY _____ D.Tenney                                                   |  | DEPARTURE _____ 210.0 E                                               |  | DIP _____ -90 degs.             |  |                |  |           |     |    |
| DATE _____ July 30/2001                                                    |  | ELEVATION _____ 1688.0m                                               |  | DEPTH _____ 76.86m (252.5 feet) |  |                |  |           |     |    |
| PURPOSE _____ Test pyrrhotite zone down dip of holes HS-01-14, 15, and 21. |  |                                                                       |  |                                 |  |                |  |           |     |    |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                       | sample<br>no. | DEPTH |    | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
|---------|-------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|----|-------------|-----------|-----------|-----------|---------|---------|
| FROM    | TO    |           |                                                                                                                                                   |               | from  | to |             |           |           |           |         |         |
| 0.00    | 1.06  | OB/7      | OVERBURDEN - black quartzite rubble.                                                                                                              |               |       |    |             |           |           |           |         |         |
| 1.06    | 4.57  | 5=-       | Marble - grey and white banded with few coarse grained white sections.<br>Quality of banding is variable. Soft core. Good coring except at start. |               |       |    |             |           |           |           |         |         |
| 4.57    | 38.00 | 5=        | MARBLE - as above. Good coring. Not broken.                                                                                                       |               |       |    |             |           |           |           |         |         |
|         |       |           | 4.72 banding (=bedding?) @ 34 degs.                                                                                                               |               |       |    |             |           |           |           |         |         |
|         |       |           | 6.16 banding (=bedding?) @ 42 degs.                                                                                                               |               |       |    |             |           |           |           |         |         |
|         |       |           | 7.58 banding (=bedding?) @ 38 degs.                                                                                                               |               |       |    |             |           |           |           |         |         |
|         |       |           | 9.30 banding (=bedding?) @ 40 degs.                                                                                                               |               |       |    |             |           |           |           |         |         |
|         |       |           | 10.85 banding (=bedding?) @ 54 degs.                                                                                                              |               |       |    |             |           |           |           |         |         |
|         |       |           | 12.22 banding (=bedding?) @ 41 degs.                                                                                                              |               |       |    |             |           |           |           |         |         |
|         |       |           | 13.91 banding (=bedding?) @ 40 degs.                                                                                                              |               |       |    |             |           |           |           |         |         |
|         |       |           | 15.46 banding (=bedding?) @ 41 degs.                                                                                                              |               |       |    |             |           |           |           |         |         |
|         |       |           | 17.05 banding (=bedding?) @ 34 degs.                                                                                                              |               |       |    |             |           |           |           |         |         |
|         |       |           | 18.87 banding (=bedding?) @ 37 degs.                                                                                                              |               |       |    |             |           |           |           |         |         |
|         |       |           | 21.06 banding (=bedding?) @ 41 degs.                                                                                                              |               |       |    |             |           |           |           |         |         |
|         |       |           | 22.80 banding (=bedding?) @ 47 degs.                                                                                                              |               |       |    |             |           |           |           |         |         |
|         |       |           | 24.11 banding (=bedding?) @ 36 degs.                                                                                                              |               |       |    |             |           |           |           |         |         |
|         |       |           | 25.87 banding (=bedding?) @ 36 degs.                                                                                                              |               |       |    |             |           |           |           |         |         |
|         |       |           | 26.95 banding (=bedding?) @ 53 degs.                                                                                                              |               |       |    |             |           |           |           |         |         |
|         |       |           | 28.68 banding (=bedding?) @ 51. degs. - poor banding.                                                                                             |               |       |    |             |           |           |           |         |         |
|         |       |           | 29.91 banding (=bedding?) @ 56 degs.                                                                                                              |               |       |    |             |           |           |           |         |         |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

HOLE ID HS 01- 22

PAGE NO. 2 of 7

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                          | sample<br>no. | DEPTH |    | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
|---------|-------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|----|-------------|-----------|-----------|-----------|---------|---------|
| FROM    | TO    |           |                                                                                                                                                                                      |               | from  | to |             |           |           |           |         |         |
|         |       |           | 31.34 banding (=bedding?) @ 54 degs.                                                                                                                                                 |               |       |    |             |           |           |           |         |         |
|         |       |           | 33.03 banding (=bedding?) @ 51 degs.                                                                                                                                                 |               |       |    |             |           |           |           |         |         |
|         |       |           | 34.25 banding (=bedding?) @ 42 degs.                                                                                                                                                 |               |       |    |             |           |           |           |         |         |
|         |       |           | 35.57 banding (=bedding?) @ 50 degs.                                                                                                                                                 |               |       |    |             |           |           |           |         |         |
|         |       |           | 37.34 banding (=bedding?) @ 43 degs.                                                                                                                                                 |               |       |    |             |           |           |           |         |         |
| 38.00   | 50.61 | 5<5=      | MARBLE - white and grey mainly coarse grained (especially white sections). Banding is often poor. Soft. Good coring.                                                                 |               |       |    |             |           |           |           |         |         |
|         |       |           | 38.32 banding (=bedding?) @ 58 degs.                                                                                                                                                 |               |       |    |             |           |           |           |         |         |
|         |       |           | 39.69 banding (=bedding?) @ 52 degs.                                                                                                                                                 |               |       |    |             |           |           |           |         |         |
|         |       |           | 41.33 banding (=bedding?) @ 59 degs.                                                                                                                                                 |               |       |    |             |           |           |           |         |         |
|         |       |           | 43.03 banding (=bedding?) @ 61 degs. - white section.                                                                                                                                |               |       |    |             |           |           |           |         |         |
|         |       |           | 44.60 banding (=bedding?) @ 60 degs.                                                                                                                                                 |               |       |    |             |           |           |           |         |         |
|         |       |           | 46.14 banding (=bedding?) @ 57 degs.                                                                                                                                                 |               |       |    |             |           |           |           |         |         |
|         |       |           | 47.68 banding (=bedding?) @ 68 degs.                                                                                                                                                 |               |       |    |             |           |           |           |         |         |
|         |       |           | 48.92 banding (=bedding?) @ 77 degs.                                                                                                                                                 |               |       |    |             |           |           |           |         |         |
|         |       |           | 50.31 banding (=bedding?) @ 86 degs.                                                                                                                                                 |               |       |    |             |           |           |           |         |         |
| 50.61   | 51.55 | 3gde      | GARNET DIOPSIDE SKARN - coarse grained brown/red garnet with blebs and sections of of dark green fine grained diopside. Minor epidote at end. Hard. Good coring.                     |               |       |    |             |           |           |           |         |         |
|         |       |           | 50.61 contact sharp and even @ 62 degs.                                                                                                                                              |               |       |    |             |           |           |           |         |         |
| 51.55   | 52.07 | 8^        | MONZONITE - grey medium/fine grained feldspathic dyke. Fine grained mafics (10%) altered green. Hard. Good coring. Small (2-5cm) angular fragments dark green diopside skarn at end. |               |       |    |             |           |           |           |         |         |
|         |       |           | 51.55 contact about 29 degs. (fair/good).                                                                                                                                            |               |       |    |             |           |           |           |         |         |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 22 |
| PAGE NO. | 3 of 7    |

| FOOTAGE |       | ROCK CODE            | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | sample<br>no. | DEPTH |       | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
|---------|-------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|-------|-------------|-----------|-----------|-----------|---------|---------|
| FROM    | TO    |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               | from  | to    |             |           |           |           |         |         |
|         |       |                      | 52.07 contact ~ 71 degs. (two brown quartzite fragments) - poor.                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |       |       |             |           |           |           |         |         |
| 52.07   | 53.12 | 4q <sup>+</sup> /3gd | QUARTZITE - pale grey with small (1-2 mm) sub rounded grey quartz grains in a siliceous matrix. A 15 cm and a 20 cm band of brown/red garnet and dark green diopside skarn. Fair coring. Jointed core.                                                                                                                                                                                                                                                                                                     |               |       |       |             |           |           |           |         |         |
| 53.12   | 53.69 | 4q <sup>+</sup>      | QUARTZITE - grey/dull green fine grained altered (buff/pink) and weakly skarnified. 2% disseminated fine grained pyrite often as cubes. Minor clastic texture (microbreccia). Hard. Good coring.                                                                                                                                                                                                                                                                                                           |               |       |       |             |           |           |           |         |         |
| 53.69   | 54.11 | 2Q>Pgc               | QUARTZ VEIN - very coarse grained white/grey quartz, often euhedral with hexagonal crystal outlines (2cm crystals). Minor vugs (3%). Small (1-3mm) euhedral brown garnet crystals (3%) clustered at start and end of section associated with fine grained disseminated pyrite often as cubes (2%). Trace chalcopyrite. Middle 10cm. of vein is white and nearly barren. Vein contacts are not sharp. Could be siliceous replacement/recrystallization of quartzite. Weakly calcareous. Hard. Jointed core. | 23691         | 53.69 | 54.11 | 0.42        | 100       | 0.41      |           |         |         |
| 54.11   | 57.38 | 4q/4d                | QUARTZITE - dark grey fine grained largely altered to pale green (diopside?). Weak skarnification. Trace fine grained pyrite. Hard. Jointed core.                                                                                                                                                                                                                                                                                                                                                          |               |       |       |             |           |           |           |         |         |
| 57.38   | 58.33 | 3qdgRC               | CALC SILICATE SKARN - similar to 53.69 - 54.11 but more skarnified and more pyrrhotite. Grey/green/brown skarn with fine grained grey quartz and minor euhedral quartz crystals. Heavy coarse and fine grained dark green diopside and finer grained patchy brown garnet, sometimes                                                                                                                                                                                                                        | 23692         | 57.38 | 58.33 | 0.97        | 100       | 0.21      |           |         |         |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

HOLE ID HS 01- 22

PAGE NO. 4 of 7

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                            | sample<br>no. | DEPTH |       | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
|---------|-------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|-------|-------------|-----------|-----------|-----------|---------|---------|
| FROM    | TO    |           |                                                                                                                                                                                                                                                                                                                                                                        |               | from  | to    |             |           |           |           |         |         |
|         |       |           | euhedral. Irregular patches fine grained pyrrhotite (3%), pyrite (1%), minor epidote and trace of chalcopyrite. Weakly calcareous. Hard. Good coring.                                                                                                                                                                                                                  |               |       |       |             |           |           |           |         |         |
|         |       |           | 57.36 contact @ 40 degs.                                                                                                                                                                                                                                                                                                                                               |               |       |       |             |           |           |           |         |         |
|         |       |           | 58.33 contact irregular ~ 22 degs.                                                                                                                                                                                                                                                                                                                                     |               |       |       |             |           |           |           |         |         |
| 58.33   | 58.88 | 4d        | QUARTZITE - light green fine grained weakly skarnified with diopside?<br>Siliceous layers at low angle in core. Hard. Good coring.                                                                                                                                                                                                                                     |               |       |       |             |           |           |           |         |         |
| 58.88   | 59.52 | 3qdgRC    | QUARTZ DIOPSIDE GARNET SKARN - fine grained and euhedral quartz with fine to coarse grained patches and sections of dark green diopside. Patches and disseminated fine grained pyrrhotite (3%), pyrite (1%), chalcopyrite (trace). Unusual scattered brown garnet crystals in places similar to 57.36 to 58.33. Minor altered pale green quartzite. Weakly calcareous. | 23693         | 58.88 | 59.52 | 0.64        | 100       | 0.17      |           | 0.1     | 14.80   |
|         |       |           |                                                                                                                                                                                                                                                                                                                                                                        |               |       |       |             |           |           |           |         |         |
| 59.52   | 60.04 | 1RCSVQds  | SULPHIDE ZONE - green diopside and grey quartz with scattered irregular specks blebs and patches fine grained pyrrhotite (10%) and fine grained pyrite (or marcasite) rimming pyrrhotite islands (5%) - "island texture". Fine grained and irregular chalcopyrite (1%) disseminated and as one 3cm bleb. Ten specks visible native gold less than 1mm size.            | 23694         | 59.52 | 60.04 | 0.52        | 100       | 90.02     |           | 0.1     | 4.58    |
|         |       |           | 59.72 one speck visible native gold (<1mm).                                                                                                                                                                                                                                                                                                                            |               |       |       |             |           |           |           |         | 19.80   |
|         |       |           | 59.76 one speck visible native gold (<1mm).                                                                                                                                                                                                                                                                                                                            |               |       |       |             |           |           |           |         |         |
|         |       |           | 59.79 one speck visible native gold (<1mm).                                                                                                                                                                                                                                                                                                                            |               |       |       |             |           |           |           |         |         |
|         |       |           | 59.90 one speck visible native gold (<1mm).                                                                                                                                                                                                                                                                                                                            |               |       |       |             |           |           |           |         |         |
|         |       |           | 59.92 one speck visible native gold (<1mm).                                                                                                                                                                                                                                                                                                                            |               |       |       |             |           |           |           |         |         |
|         |       |           | 59.94 three specks visible native gold (<1mm).                                                                                                                                                                                                                                                                                                                         |               |       |       |             |           |           |           |         |         |
|         |       |           | 59.98 one speck visible native gold (1mm).                                                                                                                                                                                                                                                                                                                             |               |       |       |             |           |           |           |         |         |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |          |
|----------|----------|
| HOLE ID  | HS 01-22 |
| PAGE NO. | 5 of 7   |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                                                                            | sample no. | DEPTH |       | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
|---------|-------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|-------|-------------|-----------|-----------|-----------|---------|---------|
| FROM    | TO    |           |                                                                                                                                                                                                                                                                                                                        |            | from  | to    |             |           |           |           |         |         |
|         |       |           | 60.00 one speck visible native gold (<1mm).<br>Traces bismuth.                                                                                                                                                                                                                                                         |            |       |       |             |           |           |           |         |         |
| 60.04   | 60.87 | 3Qd/1RC   | MINERALIZED SILICEOUS DIOPSIDE SKARN - grey coarse grained quartz with large patches light green diopside. Specks and blebs and a few patches angular mainly fine grained pyrrhotite (4%) with or without chalcopyrite (1.5%). Numerous euhedral clear grey quartz crystals in patches. Hard. Good coring.             | 23695      | 60.04 | 60.87 | 0.83        | 100       | 0.96      |           | 10      | 9.58    |
| 60.87   | 61.87 | 3dq/1RC   | MINERALIZED DIOPSIDE QUARTZ SKARN - pale apple green diopside with irregular patches white/grey coarse grained quartz. Specks blebs and patches fine grained pyrrhotite; fine grained pyrite (3%); marcasite ? (1%). Clear grey quartz crystals in places. Hard. Good coring.<br>61.70 banding @ 35 degs.              | 23696      | 60.87 | 61.87 | 1.00        | 100       | 9.02      |           | 05      | 14.15   |
| 61.87   | 62.23 | 4q/3d     | SKARNIFIED QUARTZITE - green fine grained with diopside. Banding (=bedding?) preserved. Fair coring.<br>62.00 - 62.04 Fault Gouge - green.<br>62.10 banding (=bedding?) @ 39 degs.<br>62.23 contact @ 46 degs. (sharp and regular).                                                                                    | 23697      | 61.87 | 62.23 | 0.36        | 100       | 0.10      |           | -       | -       |
| 62.23   | 62.99 | 1RPCV/3dg | SULPHIDE ZONE - pale green diopside skarn with grey siliceous sections. Heavy fine grained pyrrhotite (15%) in patches, blebs and associated fine grained pyrite often as 1mm cubes. Minor disseminated and patches chalcopyrite (1%). Three specks visible native gold at 62.79, 62.81 and 62.88m. Hard. Good coring. | 23698      | 62.23 | 62.99 | 0.76        | 100       | 9.91      |           | 26      | 16.26   |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

HOLE ID HS 01-22

PAGE NO. 6 of 7

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                        | sample<br>no. | DEPTH |       | length | Rec. | R.Q.D. | R.Q.D. |  |  |
|---------|-------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|-------|--------|------|--------|--------|--|--|
| FROM    | TO    |           |                                                                                                                                                                    |               | from  | to    | m      | %    | m      | %      |  |  |
| 62.99   | 63.46 | 8q        | ALTERED INTRUSIVE - white siliceous altered monzonite? Rough<br>banding at 40 degs. Hard. Good coring.                                                             |               | 0.00  | 1.52  | 0.55   | 36   | 0.00   | 0      |  |  |
|         |       |           |                                                                                                                                                                    |               | 1.52  | 3.05  | 1.43   | 93   | 0.10   | 7      |  |  |
|         |       |           |                                                                                                                                                                    |               | 3.05  | 4.57  | 1.52   | 100  | 0.49   | 32     |  |  |
| 63.46   | 69.46 | 8k^       | MONZONITE - white, red, black, medium grained equigranular texture .<br>Potash feldspar (35%); 10% mafics. Uniform texture; massive. Hard.<br>Good coring.         |               | 4.57  | 6.10  | 1.53   | 100  | 1.20   | 78     |  |  |
|         |       |           |                                                                                                                                                                    |               | 6.10  | 7.62  | 1.52   | 100  | 1.44   | 95     |  |  |
|         |       |           |                                                                                                                                                                    |               | 7.62  | 9.14  | 1.52   | 100  | 1.35   | 89     |  |  |
|         |       |           |                                                                                                                                                                    |               | 9.14  | 10.67 | 1.53   | 100  | 1.49   | 97     |  |  |
|         |       |           | 69.46 contact @ 52 degs. (sharp and even)                                                                                                                          |               | 10.67 | 12.19 | 1.52   | 100  | 1.52   | 100    |  |  |
| 69.46   | 72.72 | 4qR       | QUARTZITE - light grey fine grained very hard. Minor pyrrhotite (2%) with<br>or without chalcopyrite (trace) on joints.                                            |               | 12.19 | 13.72 | 1.53   | 100  | 1.31   | 86     |  |  |
|         |       |           |                                                                                                                                                                    |               | 13.72 | 15.24 | 1.52   | 100  | 1.52   | 100    |  |  |
|         |       |           |                                                                                                                                                                    |               | 15.24 | 16.76 | 1.52   | 100  | 1.50   | 99     |  |  |
| 72.72   | 74.28 | 8f]       | MONZONITE - grey and very pale green feldspar porphyry dyke with<br>2-3cm feldspar phenocrysts. Matrix medium/fine grained dioritic texture.<br>Hard. Good coring. |               | 16.76 | 18.29 | 1.53   | 100  | 1.45   | 95     |  |  |
|         |       |           |                                                                                                                                                                    |               | 18.29 | 19.81 | 1.52   | 100  | 1.43   | 94     |  |  |
|         |       |           |                                                                                                                                                                    |               | 19.81 | 21.34 | 1.53   | 100  | 1.48   | 97     |  |  |
|         |       |           |                                                                                                                                                                    |               | 21.34 | 22.86 | 1.52   | 100  | 1.52   | 100    |  |  |
|         |       |           | 72.72 contact @ 39 degs. - sharp and undulating.                                                                                                                   |               | 22.86 | 24.38 | 1.52   | 100  | 1.36   | 89     |  |  |
| 74.28   | 76.86 | 4qR       | QUARTZITE - as above. Few green tinged sections with weak<br>skarnification. Very hard. Good coring.                                                               |               | 24.38 | 25.91 | 1.53   | 100  | 1.41   | 92     |  |  |
|         |       |           |                                                                                                                                                                    |               | 25.91 | 27.43 | 1.52   | 100  | 1.27   | 84     |  |  |
|         |       |           | 76.05 weak irregular banding @ 49 degs.                                                                                                                            |               | 27.43 | 28.96 | 1.53   | 100  | 1.47   | 96     |  |  |
|         |       |           |                                                                                                                                                                    |               | 28.96 | 30.48 | 1.52   | 100  | 1.22   | 80     |  |  |
|         |       |           | 76.86 E.O.H.                                                                                                                                                       |               | 30.48 | 32.00 | 1.52   | 100  | 1.52   | 100    |  |  |
|         |       |           | A.Q.T. core split for assay.                                                                                                                                       |               | 32.00 | 33.53 | 1.53   | 100  | 1.31   | 86     |  |  |
|         |       |           | Water return.                                                                                                                                                      |               | 33.53 | 35.05 | 1.52   | 100  | 1.52   | 100    |  |  |
|         |       |           |                                                                                                                                                                    |               | 35.05 | 36.58 | 1.53   | 100  | 1.41   | 92     |  |  |
|         |       |           |                                                                                                                                                                    |               | 36.58 | 38.10 | 1.52   | 100  | 1.20   | 79     |  |  |
|         |       |           |                                                                                                                                                                    |               | 38.10 | 39.62 | 1.52   | 100  | 1.41   | 93     |  |  |
|         |       |           |                                                                                                                                                                    |               | 39.62 | 41.15 | 1.53   | 100  | 1.53   | 100    |  |  |

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 22 |
| PAGE NO. | 7 of 7    |

Mine Geology Services      April 17/1999

|                                                                |  |                                      |  |                                 |  |             |  |                |     |           |  |
|----------------------------------------------------------------|--|--------------------------------------|--|---------------------------------|--|-------------|--|----------------|-----|-----------|--|
| PROPERTY _____ Horn Claims                                     |  | <b>CANADIAN UNITED MINERALS INC.</b> |  |                                 |  | MINE _____  |  | HOLE ID _____  |     | HS 01- 23 |  |
| N.T.S. _____ 116 B-7                                           |  | <b>DIAMOND DRILL HOLE LOG</b>        |  |                                 |  |             |  | PAGE NO. _____ |     | 1 of 7    |  |
| DATE STARTED _____ Aug 1/2001                                  |  |                                      |  |                                 |  |             |  | DIP TESTS      |     |           |  |
| DATE COMPLETED _____ Aug 3/2001                                |  | LATITUDE _____ 12.6 N                |  | AZ _____ South (grid)           |  | DEPTH _____ |  | DEPTH          | DIP | AZ        |  |
| LOGGED BY _____ D.Tenney                                       |  | DEPARTURE _____ 189.2 E              |  | DIP _____ -49 degs. (Br)        |  |             |  |                |     |           |  |
| DATE _____ Aug 3/2001                                          |  | ELEVATION _____ 1681.7m              |  | DEPTH _____ 47.98m (157.4 feet) |  |             |  |                |     |           |  |
| PURPOSE _____ Test magnetic anomaly M-4 west of hole HS 01-14. |  |                                      |  |                                 |  |             |  |                |     |           |  |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | sample<br>no. | DEPTH |       | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>%   | Fe<br>% |
|---------|-------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|-------|-------------|-----------|-----------|-----------|-----------|---------|
| FROM    | TO    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               | from  | to    |             |           |           |           |           |         |
| 0.00    | 1.98  | OB        | OVERBURDEN - rubble with fragments of quartzite and a few of marble.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |       |       |             |           |           |           |           |         |
| 1.98    | 17.64 | 5>/5=     | MARBLE - white coarse grained (up to 1cm calcite crystals) with sections of grey marble with mainly poor banding. Soft. Good coring.<br>This section of marble is coarser grained and less banded than previous drill holes in magnetic anomaly M-4.<br>2.58 banding (=bedding?) @ 70 degs.<br>4.06 banding (=bedding?) @ 68 degs.<br>5.28 banding (=bedding?) @ 64 degs. (poor banding)<br>7.89 banding (=bedding?) @ 57 degs.<br>10.27 banding (=bedding?) @ 63 degs.<br>13.99 banding (=bedding?) @ 57 degs. (poor banding)<br>15.35 banding (=bedding?) @ 80 degs.<br>17.30 - 17.34 irregular inclusions of grey quartzite with fine grained disseminated pyrrhotite (1%) and pyrite (1%). Hard. |               |       |       |             |           |           |           |           |         |
| 17.64   | 17.83 | 4qRP      | QUARTZITE - grey/brown fine grained with rounded and angular fragments up to 10cm with very fine grained disseminated pyrrhotite (4%), pyrite (2%) and chalcopyrite (<1%). Matrix of marble (20%). Hard. Good coring.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 23746         | 17.64 | 17.83 | 0.19        | 100       | 0.00      |           | not split |         |
| 17.83   | 21.16 | 5>\$      | MARBLE - white very coarse grained unbanded. Soft. Good coring.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |       |       |             |           |           |           |           |         |
| 21.16   | 26.77 | 5=        | MARBLE - grey mainly banded. Soft. Good coring.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |       |       |             |           |           |           |           |         |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 23 |
| PAGE NO. | 2 of 7    |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                                                    | sample no. | DEPTH |       | length | Rec. | Au   | Ag  | Cu | Fe |
|---------|-------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|-------|--------|------|------|-----|----|----|
| FROM    | TO    |           |                                                                                                                                                                                                                                                                                                |            | from  | to    | m      | %    | g/t  | g/t | %  | %  |
|         |       |           | 21.37 banding (=bedding?) @ 71 degs.                                                                                                                                                                                                                                                           |            |       |       |        |      |      |     |    |    |
|         |       |           | 22.98 banding (=bedding?) @ 67 degs.                                                                                                                                                                                                                                                           |            |       |       |        |      |      |     |    |    |
|         |       |           | 24.49 banding (=bedding?) @ 65 degs. (good; representative)                                                                                                                                                                                                                                    |            |       |       |        |      |      |     |    |    |
|         |       |           | 25.88 banding (=bedding?) @ 65 degs. (good)                                                                                                                                                                                                                                                    |            |       |       |        |      |      |     |    |    |
|         |       |           | 26.68 banding (=bedding?) @ 72 degs. (good; representative)                                                                                                                                                                                                                                    |            |       |       |        |      |      |     |    |    |
| 26.77   | 27.43 | 3dg       | DIOPSIDE GARNET SKARN - green fine grained diopside and red/brown coarse grained garnet with specks pyrrhotite (tr) and pyrite (tr). One speck chalcopyrite. Banding in silicates poor at high angle. Hard.                                                                                    | 23699      | 26.77 | 27.43 | 0.66   | 100  | 0.07 |     |    |    |
| 27.43   | 28.20 | 8k/3      | MONZONITE - medium grained white and pink feldspar with euhedral green crystals (?chloritized) altered amphibole (20%). Unusually high mafic content. Hard. Good coring.                                                                                                                       | 23701      | 27.43 | 28.20 | 0.77   | 100  | 0.14 |     |    |    |
| 28.20   | 28.70 | 3dggcR    | DIOPSIDE GARNET QUARTZ SKARN - green/brown/white medium grained, weakly calcareous with patches and fine grained disseminated pyrrhotite (2%), pyrite (1%), and chalcopyrite (tr). Hard. Good coring.                                                                                          | 23702      | 28.20 | 28.70 | 0.50   | 100  | 0.27 |     |    |    |
| 28.70   | 29.94 | 3gd       | GARNET DIOPSIDE SKARN - red/brown medium grained garnet (60%) with dark green fine grained diopside (15%), and flecks and patches white calcite (4%). Hard. Good coring.                                                                                                                       | 23703      | 28.70 | 29.94 | 1.24   | 100  | 0.03 |     |    |    |
| 29.94   | 30.88 | 1RCV/3dg  | SULPHIDE ZONE - dull yellow/green medium grained diopside skarn with grey siliceous sections. Irregular disseminated specks, blebs and patches pyrrhotite (20%), with or without specks and small blebs chalcopyrite (1%). Trace molybdenite. 2 specks visible native gold. Hard. Good coring. | 23704      | 29.94 | 30.88 | 0.94   | 100  | 0.14 |     |    |    |
|         |       |           | 30.31 1 speck visible native gold (<1mm).                                                                                                                                                                                                                                                      |            |       |       |        |      |      |     |    |    |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |          |
|----------|----------|
| HOLE ID  | HS 01-23 |
| PAGE NO. | 3 of 7   |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                               | sample<br>no. | DEPTH |       | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
|---------|-------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|-------|-------------|-----------|-----------|-----------|---------|---------|
| FROM    | TO    |           |                                                                                                                                                                                                                                                                                                                                                                                                           |               | from  | to    |             |           |           |           |         |         |
|         |       |           | 30.33 1 speck visible native gold (<1mm).                                                                                                                                                                                                                                                                                                                                                                 |               |       |       |             |           |           |           |         |         |
|         |       |           | 30.40 several small specks molybdenite.                                                                                                                                                                                                                                                                                                                                                                   |               |       |       |             |           |           |           |         |         |
| 30.88   | 32.20 | 8/3dV     | MONZONITE - dull pale green/white with diopsidic? alteration of feldspars. Mafics (10%) black to dark green. Fine grained disseminated pyrite, pyrrhotite and chalcopyrite mainly concentrated at start of section and on a few joint faces. Medium grained igneous texture gradational from previous to next rock type. Several specks of native gold about 1mm across. "Gold scour" on surface of core. | 23705         | 30.88 | 32.00 | 1.12        | 100       | 0.03      |           |         |         |
|         |       |           | 32.05 2 specks of native gold 1mm across and several smaller ones.                                                                                                                                                                                                                                                                                                                                        | 23706         | 32.00 | 32.20 | 0.20        | 100       | 5.21      |           |         |         |
| 32.20   | 37.80 | 8k^       | MONZONITE - white, grey, pink, with small black euhedral mafic crystals. High potash feldspar content. Equigranular igneous texture. Minor short sections weak pale green skarnification. Few feldspar phenocrysts. Very hard. Good coring.                                                                                                                                                               |               |       |       |             |           |           |           |         |         |
|         |       |           | 37.80 sharp even contact @ 64 degs.                                                                                                                                                                                                                                                                                                                                                                       |               |       |       |             |           |           |           |         |         |
| 37.80   | 38.30 | 4qf       | SILICEOUS SEDIMENTS - pale green fine grained cherty with white feldspar crystals (3-4mm) in few plaques. Disseminated fine grained pyrrhotite and pyrite (1%). Very hard. Good coring.                                                                                                                                                                                                                   |               |       |       |             |           |           |           |         |         |
| 38.30   | 38.75 | 8k^       | MONZONITE - as above. Short section green alteration (skarnification?) with low angle 4mm quartz vein and irregular specks and blebs of pyrrhotite (1%). Hard. Good coring.                                                                                                                                                                                                                               |               |       |       |             |           |           |           |         |         |
|         |       |           | 38.30 sharp regular contact @ 33 degs.                                                                                                                                                                                                                                                                                                                                                                    |               |       |       |             |           |           |           |         |         |
|         |       |           | 38.75 sharp regular conatct @ 58 degs.                                                                                                                                                                                                                                                                                                                                                                    |               |       |       |             |           |           |           |         |         |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

HOLE ID HS 01- 23

PAGE NO. 4 of 7

| FOOTAGE |       | ROCK CODE          | DESCRIPTION                                                                                                                                                                                             | sample<br>no. | DEPTH |    | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
|---------|-------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|----|-------------|-----------|-----------|-----------|---------|---------|
| FROM    | TO    |                    |                                                                                                                                                                                                         |               | from  | to |             |           |           |           |         |         |
| 38.75   | 40.80 | 4qb/8 <sup>A</sup> | SILICEOUS SEDIMENTS - green weakly skarnified fine grained with white/<br>2-4 cm wide at low angle to core. Short sections white/black<br>monzonite. Hard. Good coring.                                 |               |       |    |             |           |           |           |         |         |
| 40.80   | 40.90 | 4qdRC              | SILICEOUS SEDIMENTS - particularly siliceous zone with fine grained<br>pyrrhotite (5%), chalcopyrite (1%) and pyrite (1%), mainly as thin stringers.<br>Hard. Good coring.                              |               |       |    |             |           |           |           |         |         |
| 40.90   | 41.25 | 4qb/8 <sup>A</sup> | SILICEOUS SEDIMENTS - green weakly skarnified fine grained with white/<br>2-4 cm wide at low angle to core. Short sections white/black<br>monzonite. Hard. Good coring.                                 |               |       |    |             |           |           |           |         |         |
| 41.25   | 42.87 | 8 <sup>A</sup>     | MONZONITE - as above. Not skarnified. Pyrrhotite (tr) and chalcopyrite<br>(tr) in short section associated with a low angle joint. Hard. Good coring.                                                   |               |       |    |             |           |           |           |         |         |
| 42.87   | 44.20 | 4qfΔ               | SILICEOUS AND FELDSPATHIC SEDIMENTS - green weakly skarnified<br>with grey flattened fragments reminiscent of welded tuff. Minor<br>disseminated and stringers pyrrhotite (tr). Very hard. Good coring. |               |       |    |             |           |           |           |         |         |
| 44.20   | 44.72 | 8f□                | MONZONITE DYKE - grey and black with euhedral pale green/grey<br>feldspar spenocrysts (1-4 cm). Hard. Good coring.<br>44.20 contact @ 35 degs.<br>44.72 contact @ 47 degs.                              |               |       |    |             |           |           |           |         |         |
| 44.72   | 47.98 | 4qfΔ               | SILICEOUS AND FELDSPATHIC SEDIMENTS - as above. Suggestion<br>this may be pyroclastic. Weak banding and small white/grey f spar crystals<br>prominent in some sections. Very hard. Good coring.         |               |       |    |             |           |           |           |         |         |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

| HOLE ID |
|---------|
|---------|

HS 01-23

**PAGE NO.**

5 of 7

[illegible]

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

HOLE ID HS 01- 23

PAGE NO. 6 of 7

| FOOTAGE |    | ROCK CODE | DESCRIPTION | sample<br>no. | DEPTH |       | length | Rec. | R.Q.D. | R.Q.D. |  |  |
|---------|----|-----------|-------------|---------------|-------|-------|--------|------|--------|--------|--|--|
| FROM    | TO |           |             |               | from  | to    | m      | %    | m      | %      |  |  |
|         |    |           |             |               | 0.00  | 1.22  | 0.20   | 16   | 0.00   | 0      |  |  |
|         |    |           |             |               | 1.22  | 3.05  | 1.50   | 82   | 0.57   | 31     |  |  |
|         |    |           |             |               | 3.05  | 4.57  | 1.52   | 100  | 1.13   | 74     |  |  |
|         |    |           |             |               | 4.57  | 6.10  | 1.53   | 100  | 1.46   | 95     |  |  |
|         |    |           |             |               | 6.10  | 7.62  | 1.52   | 100  | 1.48   | 97     |  |  |
|         |    |           |             |               | 7.62  | 9.14  | 1.52   | 100  | 1.40   | 92     |  |  |
|         |    |           |             |               | 9.14  | 10.67 | 1.53   | 100  | 1.35   | 88     |  |  |
|         |    |           |             |               | 10.67 | 12.19 | 1.52   | 100  | 1.52   | 100    |  |  |
|         |    |           |             |               | 12.19 | 13.72 | 1.53   | 100  | 1.40   | 92     |  |  |
|         |    |           |             |               | 13.72 | 15.24 | 1.52   | 100  | 1.30   | 86     |  |  |
|         |    |           |             |               | 15.24 | 16.76 | 1.52   | 100  | 1.43   | 94     |  |  |
|         |    |           |             |               | 16.76 | 18.29 | 1.53   | 100  | 1.53   | 100    |  |  |
|         |    |           |             |               | 18.29 | 19.81 | 1.52   | 100  | 1.50   | 99     |  |  |
|         |    |           |             |               | 19.81 | 21.34 | 1.53   | 100  | 1.25   | 82     |  |  |
|         |    |           |             |               | 21.34 | 22.86 | 1.52   | 100  | 1.38   | 91     |  |  |
|         |    |           |             |               | 22.86 | 24.38 | 1.52   | 100  | 1.32   | 87     |  |  |
|         |    |           |             |               | 24.38 | 25.91 | 1.53   | 100  | 1.30   | 85     |  |  |
|         |    |           |             |               | 25.91 | 27.43 | 1.52   | 100  | 1.45   | 95     |  |  |
|         |    |           |             |               | 27.43 | 28.96 | 1.53   | 100  | 1.36   | 89     |  |  |
|         |    |           |             |               | 28.96 | 30.48 | 1.52   | 100  | 1.39   | 91     |  |  |
|         |    |           |             |               | 30.48 | 32.00 | 1.52   | 100  | 1.52   | 100    |  |  |
|         |    |           |             |               | 32.00 | 33.53 | 1.53   | 100  | 1.33   | 87     |  |  |
|         |    |           |             |               | 33.53 | 35.05 | 1.52   | 100  | 1.52   | 100    |  |  |
|         |    |           |             |               | 35.05 | 36.58 | 1.53   | 100  | 1.14   | 75     |  |  |
|         |    |           |             |               | 36.58 | 38.10 | 1.52   | 100  | 1.52   | 100    |  |  |
|         |    |           |             |               | 38.10 | 39.62 | 1.52   | 100  | 1.41   | 93     |  |  |
|         |    |           |             |               | 39.62 | 41.15 | 1.53   | 100  | 1.48   | 97     |  |  |

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 23 |
| PAGE NO. | 7 of 7    |

Mine Geology Services April 17/1999

|                                                                              |       |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 |       |                |             |                         |           |           |         |         |
|------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------|----------------|-------------|-------------------------|-----------|-----------|---------|---------|
| PROPERTY _____ Horn Claims                                                   |       | <b>CANADIAN UNITED MINERALS INC.</b><br><b>DIAMOND DRILL HOLE LOG</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 |       | MINE _____     |             | HOLE ID _____ HS 01- 24 |           |           |         |         |
| N.T.S. _____ 116 B-7                                                         |       |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 |       | PAGE NO. _____ |             | 1 of 3                  |           |           |         |         |
| DATE STARTED _____ Aug 3/2001                                                |       |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 |       | DIP TESTS      |             |                         |           |           |         |         |
| DATE COMPLETED _____ Aug 5/2001                                              |       | LATITUDE _____ 12.9 N                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | AZ _____ South (grid)           |       | DEPTH          | DIP         | AZ                      | DEPTH     | DIP       | AZ      |         |
| LOGGED BY _____ D.Tenney                                                     |       | DEPARTURE _____ 189.2 E                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | DIP _____ -73 degs.             |       |                |             |                         |           |           |         |         |
| DATE _____ Aug 6/2001                                                        |       | ELEVATION _____ 1681.7m                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | DEPTH _____ 44.29m (145.3 feet) |       |                |             |                         |           |           |         |         |
| PURPOSE _____ Test magnetic anomaly M-4 below visible gold in hole HS-01-23. |       |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 |       |                |             |                         |           |           |         |         |
| FOOTAGE                                                                      |       | ROCK CODE                                                             | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | sample<br>no.                   | DEPTH |                | length<br>m | Rec.<br>%               | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
| FROM                                                                         | TO    |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 | from  | to             |             |                         |           |           |         |         |
| 0.00                                                                         | 1.83  | OB-                                                                   | OVERBURDEN - broken black quartzite and grey marble.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                 |       |                |             |                         |           |           |         |         |
| 1.83                                                                         | 34.74 | 5=/5>                                                                 | MARBLE - grey variably banded medium grained marble with few<br>coarse grained massive white sections up to 15cm long. Soft. Good coring.<br>2.23 banding (=bedding?) @ 58 degs.<br>3.70 banding (=bedding?) @ 55 degs.<br>4.87 banding (=bedding?) @ 44 degs.<br>7.62 banding (=bedding?) @ 42 degs.<br>9.37 banding (=bedding?) @ 48 degs.<br>12.54 banding (=bedding?) @ 49 degs.<br>13.57 banding (=bedding?) @ 51 degs.<br>13.57 - 18.27 banding absent or poor to irregular.<br>18.27 banding (=bedding?) @ 78 degs. (typical)<br>22.36 banding (=bedding?) @ 64 degs. (sparse and variable)<br>23.70 banding (=bedding?) @ 49 degs. (poor)<br>25.10 banding (=bedding?) @ 70 degs.<br>27.90 banding (=bedding?) @ 57 degs. (poor)<br>29.49 banding (=bedding?) @ 72 degs.<br>32.34 banding (=bedding?) @ 58 degs. (typical)<br>34.05 banding (=bedding?) @ 64 degs. (typical)<br>37.74 contact with skarn @ 72 degs cutting banding in marble ~ 40 degs. |                                 |       |                |             |                         |           |           |         |         |
| 34.74                                                                        | 36.55 | 3dgc                                                                  | DIOPSIDE GARNET SKARN - fine grained green to dark green diopside                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 |       |                |             |                         |           |           |         |         |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 24 |
| PAGE NO. | 2 of 3    |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                           | sample<br>no. | DEPTH |       | length<br>m | Rec.<br>% | R.Q.D.<br>M | R.Q.D.<br>% | Cu<br>% | Fe<br>% |
|---------|-------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|-------|-------------|-----------|-------------|-------------|---------|---------|
| FROM    | TO    |           |                                                                                                                                                                                                       |               | from  | to    |             |           |             |             |         |         |
|         |       |           | with patches red/brown coarse grained garnet. Calcareous especially at start. Minor disseminated pyrrhotite (<1%) mainly at start. Hard. Good coring.                                                 |               | 0.00  | 1.83  | 0.42        | 23        | 0.00        | 0           |         |         |
|         |       |           |                                                                                                                                                                                                       |               | 1.83  | 3.05  | 1.22        | 100       | 0.15        | 12          |         |         |
|         |       |           |                                                                                                                                                                                                       |               | 3.05  | 4.57  | 1.52        | 100       | 0.50        | 33          |         |         |
|         |       |           |                                                                                                                                                                                                       |               | 4.57  | 5.18  | 0.61        | 100       | 0.40        | 66          |         |         |
| 36.55   | 37.30 | 8*/3dg    | SKARNIFIED INTRUSIVE - white/green/brown skarnified monzonite with patchy red/brown garnet and green mafics altered to diopside. Medium grained igneous texture nearly throughout. Hard. Good coring. |               | 5.18  | 6.71  | 1.53        | 100       | 1.00        | 65          |         |         |
|         |       |           |                                                                                                                                                                                                       |               | 6.71  | 8.23  | 1.52        | 100       | 1.30        | 86          |         |         |
|         |       |           |                                                                                                                                                                                                       |               | 8.23  | 9.75  | 1.52        | 100       | 1.25        | 82          |         |         |
|         |       |           |                                                                                                                                                                                                       |               | 9.75  | 11.28 | 1.53        | 100       | 1.27        | 83          |         |         |
| 37.30   | 38.33 | 8*/3d     | SKARNIFIED INTRUSIVE - white and green medium grained with igneous texture. Mafics partly altered to green ?diopside. Hard. Good coring.                                                              |               | 11.28 | 12.80 | 1.52        | 100       | 1.52        | 100         |         |         |
|         |       |           |                                                                                                                                                                                                       |               | 12.80 | 14.33 | 1.53        | 100       | 1.29        | 84          |         |         |
|         |       |           |                                                                                                                                                                                                       |               | 14.33 | 15.85 | 1.52        | 100       | 1.38        | 91          |         |         |
| 38.33   | 43.08 | 8k^       | MONZONITE - white with 10% black mafics. Medium grained igneous texture. Few sections tinged pink/brown suggesting high potash feldspar content. Hard. Good coring.                                   |               | 15.85 | 17.37 | 1.52        | 100       | 1.52        | 100         |         |         |
|         |       |           |                                                                                                                                                                                                       |               | 17.37 | 18.90 | 1.53        | 100       | 1.53        | 100         |         |         |
|         |       |           |                                                                                                                                                                                                       |               | 18.90 | 20.42 | 1.52        | 100       | 1.52        | 100         |         |         |
|         |       |           |                                                                                                                                                                                                       |               | 20.42 | 21.95 | 1.53        | 100       | 1.08        | 71          |         |         |
| 43.08   | 43.51 | 4q/8X     | IGNEOUS BRECCIA WITH SILICEOUS SEDIMENTS - rounded fragments dark grey meta-quartzite with 1% disseminated pyrite in matrix fine grained intrusive. Igneous breccia. Hard. Good coring but jointed.   |               | 21.95 | 23.47 | 1.52        | 100       | 1.52        | 100         |         |         |
|         |       |           |                                                                                                                                                                                                       |               | 23.47 | 24.99 | 1.52        | 100       | 1.37        | 90          |         |         |
|         |       |           |                                                                                                                                                                                                       |               | 24.99 | 26.52 | 1.53        | 100       | 1.42        | 93          |         |         |
|         |       |           |                                                                                                                                                                                                       |               | 26.52 | 28.04 | 1.52        | 100       | 1.52        | 100         |         |         |
| 43.51   | 44.29 | 8k^       | MONZONITE - as 38.33 to 43.08.                                                                                                                                                                        |               | 28.04 | 29.56 | 1.52        | 100       | 1.44        | 95          |         |         |
|         |       |           |                                                                                                                                                                                                       |               | 29.56 | 31.09 | 1.53        | 100       | 1.49        | 97          |         |         |
|         |       |           | 44.29 E.O.H.                                                                                                                                                                                          |               | 31.09 | 32.61 | 1.52        | 100       | 1.48        | 97          |         |         |
|         |       |           | A.Q.T. core.                                                                                                                                                                                          |               | 32.61 | 34.14 | 1.53        | 100       | 1.53        | 100         |         |         |
|         |       |           | Water return.                                                                                                                                                                                         |               | 34.14 | 35.66 | 1.52        | 100       | 1.52        | 100         |         |         |
|         |       |           |                                                                                                                                                                                                       |               | 35.66 | 37.19 | 1.53        | 100       | 1.53        | 100         |         |         |
|         |       |           |                                                                                                                                                                                                       |               | 37.19 | 38.71 | 1.52        | 100       | 1.38        | 91          |         |         |
|         |       |           |                                                                                                                                                                                                       |               | 38.71 | 40.23 | 1.52        | 100       | 1.40        | 92          |         |         |

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 24 |
| PAGE NO. | 3 of 3    |

Mine Geology Services      April 17/1999

|                               |     |                                                                       |       |                               |    |                                                                                                                                                                                                                                                                                                                                                                                                 |  |           |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |                        |  |                       |  |
|-------------------------------|-----|-----------------------------------------------------------------------|-------|-------------------------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|-----|----|-------|-----|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---------------------------------|--|------------------------|--|-----------------------|--|
| PROPERTY _____ Horn Claims    |     | <b>CANADIAN UNITED MINERALS INC.</b><br><b>DIAMOND DRILL HOLE LOG</b> |       | MINE _____                    |    | HOLE ID _____                                                                                                                                                                                                                                                                                                                                                                                   |  | HS 01- 25 |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |                        |  |                       |  |
| N.T.S. _____ 116 B-7          |     |                                                                       |       |                               |    | PAGE NO. _____                                                                                                                                                                                                                                                                                                                                                                                  |  | 1 of 4    |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |                        |  |                       |  |
| DATE STARTED _____ Aug 5/2001 |     |                                                                       |       |                               |    | DIP TESTS<br><table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>DEPTH</td><td>DIP</td><td>AZ</td><td>DEPTH</td><td>DIP</td><td>AZ</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> |  | DEPTH     | DIP | AZ | DEPTH | DIP | AZ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | DATE COMPLETED _____ Aug 6/2001 |  | LATITUDE _____ 13.45 N |  | AZ _____ North (grid) |  |
| DEPTH                         | DIP | AZ                                                                    | DEPTH | DIP                           | AZ |                                                                                                                                                                                                                                                                                                                                                                                                 |  |           |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |                        |  |                       |  |
|                               |     |                                                                       |       |                               |    |                                                                                                                                                                                                                                                                                                                                                                                                 |  |           |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |                        |  |                       |  |
|                               |     |                                                                       |       |                               |    |                                                                                                                                                                                                                                                                                                                                                                                                 |  |           |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |                        |  |                       |  |
|                               |     |                                                                       |       |                               |    |                                                                                                                                                                                                                                                                                                                                                                                                 |  |           |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |                        |  |                       |  |
| LOGGED BY _____ D.Tenney      |     | DEPARTURE _____ 189.2 E                                               |       | DIP _____ -81 degs. (Br)      |    |                                                                                                                                                                                                                                                                                                                                                                                                 |  |           |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |                        |  |                       |  |
| DATE _____ Aug 7/2001         |     | ELEVATION _____ 1681.7m                                               |       | DEPTH _____ 51.82m (170 feet) |    |                                                                                                                                                                                                                                                                                                                                                                                                 |  |           |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |                        |  |                       |  |
| PURPOSE _____                 |     | Test magnetic anomaly M-4 west of V.G. in hole HS-01-22.              |       |                               |    |                                                                                                                                                                                                                                                                                                                                                                                                 |  |           |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                 |  |                        |  |                       |  |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                       | sample no. | DEPTH |    | length m | Rec. % | Au g/t | Ag g/t | Cu % | Fe % |
|---------|-------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|----|----------|--------|--------|--------|------|------|
| FROM    | TO    |           |                                                                                                                                                                   |            | from  | to |          |        |        |        |      |      |
| 0.00    | 1.19  | OB--      | OVERBURDEN - broken dark grey quartzite and marble.                                                                                                               |            |       |    |          |        |        |        |      |      |
| 1.19    | 46.85 | 5         | MARBLE - medium to coarse grained massive white marble with very coarse grained recrystallized sections. Generally poor banding where present. Soft. Good coring. |            |       |    |          |        |        |        |      |      |
|         |       |           | 1.98 banding (=bedding?) @ 39 degs.                                                                                                                               |            |       |    |          |        |        |        |      |      |
|         |       |           | 3.52 banding (=bedding?) @ 37 degs. (poor)                                                                                                                        |            |       |    |          |        |        |        |      |      |
|         |       |           | 5.45 banding (=bedding?) @ 42 degs. (poor)                                                                                                                        |            |       |    |          |        |        |        |      |      |
|         |       |           | 8.57 banding (=bedding?) @ 42 degs. (poor)                                                                                                                        |            |       |    |          |        |        |        |      |      |
|         |       |           | 10.50 banding (=bedding?) @ 38 degs. (good, typical)                                                                                                              |            |       |    |          |        |        |        |      |      |
|         |       |           | 11.97 banding (=bedding?) @ 39 degs. (poor)                                                                                                                       |            |       |    |          |        |        |        |      |      |
|         |       |           | 14.98 banding (=bedding?) @ 53 degs.                                                                                                                              |            |       |    |          |        |        |        |      |      |
|         |       |           | 17.30 banding (=bedding?) @ 51 degs.                                                                                                                              |            |       |    |          |        |        |        |      |      |
|         |       |           | 19.48 banding (=bedding?) @ 42 degs.                                                                                                                              |            |       |    |          |        |        |        |      |      |
|         |       |           | 22.53 banding (=bedding?) @ 33 degs. (typical)                                                                                                                    |            |       |    |          |        |        |        |      |      |
|         |       |           | 25.21 banding (=bedding?) @ 66 degs. (typical)                                                                                                                    |            |       |    |          |        |        |        |      |      |
|         |       |           | 27.00 banding (=bedding?) @ 66 degs. (poor)                                                                                                                       |            |       |    |          |        |        |        |      |      |
|         |       |           | 28.30 banding (=bedding?) @ 57 degs.                                                                                                                              |            |       |    |          |        |        |        |      |      |
|         |       |           | 29.72 banding (=bedding?) @ 64 degs.                                                                                                                              |            |       |    |          |        |        |        |      |      |
|         |       |           | 31.28 banding (=bedding?) @ 67 degs.                                                                                                                              |            |       |    |          |        |        |        |      |      |
|         |       |           | 32.85 banding (=bedding?) @ 61 degs. (typical)                                                                                                                    |            |       |    |          |        |        |        |      |      |
|         |       |           | 34.92 banding (=bedding?) @ 58 degs.                                                                                                                              |            |       |    |          |        |        |        |      |      |
|         |       |           | 38.21 banding (=bedding?) @ 66 degs. (good)                                                                                                                       |            |       |    |          |        |        |        |      |      |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 25 |
| PAGE NO. | 2 of 4    |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                          | sample<br>no. | DEPTH |       | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
|---------|-------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|-------|-------------|-----------|-----------|-----------|---------|---------|
| FROM    | TO    |           |                                                                                                                                                                                                                                                      |               | from  | to    |             |           |           |           |         |         |
|         |       |           | 38.21 - 44.94 very poor banding if present at al.                                                                                                                                                                                                    |               |       |       |             |           |           |           |         |         |
|         |       |           | 44.94 banding (=bedding?) @ 30 degs.                                                                                                                                                                                                                 |               |       |       |             |           |           |           |         |         |
| 46.85   | 47.30 | 5L-       | MARBLE - with stringers and bands limonitic gossan. No remnant sulphides. Matrix is partly ice. Soft and friable. Broken core.                                                                                                                       | 23707         | 46.85 | 47.30 | 0.45        | 100       | 0.03      |           |         |         |
| 47.30   | 47.49 | 3dqRP-    | DIOPSIDE QUARTZ SKARN - pale grey green fine grained with disseminated pyrrhotite (5%) as specks and blebs often rimmed with fine grained pyrite (and or marcasite?) (2%). Specks chalcopyrite (tr). Core very hard and very broken.                 | 23708         | 47.30 | 47.49 | 0.19        | 100       | 0.17      |           |         |         |
| 47.49   | 48.52 | 1RPCq     | SULPHIDE ZONE - massive to semi-massive fine grained pyrrhotite (50%) with very irregular grain boundaries, in grey/green quartz diopside skarn. Fine grained pyrite (10%) in patches. Irregular specks and blebs of chalcopyrite (1%). Good coring. | 23709         | 47.49 | 48.52 | 1.03        | 100       | 9.12      |           |         |         |
| 48.52   | 49.16 | 3dR/8     | SKARNIFIED INTRUSIVE - green skarn with diopside and fine grained disseminated pyrrhotite (2%) and pyrite (1%). Hard. Good coring.                                                                                                                   | 23710         | 48.52 | 49.16 | 0.64        | 100       | 0.21      |           |         |         |
| 49.16   | 51.82 | 8k^       | SYENITE DYKE - red/brown potash feldspar (50%), white feldspar (20%), mafics (10%). With medium grained equigranular igneous texture. Hard. Very good coring.                                                                                        |               |       |       |             |           |           |           |         |         |
|         |       |           | 51.82 E.O.H.                                                                                                                                                                                                                                         |               |       |       |             |           |           |           |         |         |
|         |       |           | A.Q.T. core split for assay.                                                                                                                                                                                                                         |               |       |       |             |           |           |           |         |         |
|         |       |           | No water return.                                                                                                                                                                                                                                     |               |       |       |             |           |           |           |         |         |
|         |       |           | Hole stopped - too hard to drill.                                                                                                                                                                                                                    |               |       |       |             |           |           |           |         |         |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 25 |
| PAGE NO. | 3 of 4    |

| FOOTAGE |    | ROCK CODE | DESCRIPTION | sample<br>no. | DEPTH |       | length | Rec. | R.Q.D. | R.Q.D. |  |  |
|---------|----|-----------|-------------|---------------|-------|-------|--------|------|--------|--------|--|--|
| FROM    | TO |           |             |               | from  | to    | m      | %    | M      | %      |  |  |
|         |    |           |             |               | 0.00  | 1.83  | 1.06   | 58   | 0.30   | 16     |  |  |
|         |    |           |             |               | 1.83  | 3.05  | 1.22   | 100  | 1.35   | 111    |  |  |
|         |    |           |             |               | 3.05  | 4.57  | 1.52   | 100  | 1.26   | 83     |  |  |
|         |    |           |             |               | 4.57  | 6.10  | 1.53   | 100  | 1.07   | 70     |  |  |
|         |    |           |             |               | 6.10  | 7.62  | 1.52   | 100  | 1.38   | 91     |  |  |
|         |    |           |             |               | 7.62  | 9.14  | 1.52   | 100  | 1.32   | 87     |  |  |
|         |    |           |             |               | 9.14  | 10.67 | 1.53   | 100  | 1.49   | 97     |  |  |
|         |    |           |             |               | 10.67 | 12.19 | 1.52   | 100  | 1.24   | 82     |  |  |
|         |    |           |             |               | 12.19 | 13.72 | 1.53   | 100  | 1.33   | 87     |  |  |
|         |    |           |             |               | 13.72 | 15.24 | 1.52   | 100  | 1.41   | 93     |  |  |
|         |    |           |             |               | 15.24 | 16.76 | 1.52   | 100  | 1.52   | 100    |  |  |
|         |    |           |             |               | 16.76 | 18.29 | 1.53   | 100  | 1.37   | 90     |  |  |
|         |    |           |             |               | 18.29 | 19.81 | 1.52   | 100  | 1.34   | 88     |  |  |
|         |    |           |             |               | 19.81 | 21.34 | 1.53   | 100  | 1.36   | 89     |  |  |
|         |    |           |             |               | 21.34 | 22.86 | 1.47   | 97   | 1.17   | 77     |  |  |
|         |    |           |             |               | 22.86 | 24.38 | 1.52   | 100  | 1.52   | 100    |  |  |
|         |    |           |             |               | 24.38 | 25.91 | 1.53   | 100  | 1.45   | 95     |  |  |
|         |    |           |             |               | 25.91 | 27.43 | 1.52   | 100  | 1.29   | 85     |  |  |
|         |    |           |             |               | 27.43 | 28.96 | 1.53   | 100  | 1.50   | 98     |  |  |
|         |    |           |             |               | 28.96 | 30.48 | 1.52   | 100  | 1.38   | 91     |  |  |
|         |    |           |             |               | 30.48 | 32.00 | 1.52   | 100  | 1.46   | 96     |  |  |
|         |    |           |             |               | 32.00 | 33.53 | 1.53   | 100  | 1.19   | 78     |  |  |
|         |    |           |             |               | 33.53 | 35.05 | 1.52   | 100  | 1.48   | 96     |  |  |
|         |    |           |             |               | 35.05 | 36.58 | 1.53   | 100  | 1.53   | 100    |  |  |
|         |    |           |             |               | 36.58 | 38.10 | 1.52   | 100  | 1.52   | 100    |  |  |
|         |    |           |             |               | 38.10 | 39.62 | 1.52   | 100  | 1.31   | 86     |  |  |
|         |    |           |             |               | 39.62 | 41.15 | 1.53   | 100  | 1.17   | 76     |  |  |

|                                                                       |          |           |
|-----------------------------------------------------------------------|----------|-----------|
| <b>CANADIAN UNITED MINERALS INC.</b><br><b>DIAMOND DRILL HOLE LOG</b> | HOLE ID  | HS 01- 25 |
|                                                                       | PAGE NO. | 4 of 4    |

HS 01-25

4 of 4

[illegible]

|                                  |     |                                                                            |       |                               |    |                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------------|-----|----------------------------------------------------------------------------|-------|-------------------------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------|-----|----|-------|-----|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| PROPERTY _____ Horn Claims       |     | <b>CANADIAN UNITED MINERALS INC.</b><br><b>DIAMOND DRILL HOLE LOG</b>      |       | MINE _____                    |    | HOLE ID _____ HS 01- 28                                                                                                                                                                                                                                                                                                                                                                                                                  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N.T.S. _____ 116 B-7             |     |                                                                            |       | PAGE NO. _____ 1 of 8         |    |                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DATE STARTED _____ Aug 8/2001    |     | LATITUDE _____ 13.75 N                                                     |       | AZ _____ North (grid)         |    | <div style="text-align: center;">DIP TESTS</div> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>DEPTH</td> <td>DIP</td> <td>AZ</td> <td>DEPTH</td> <td>DIP</td> <td>AZ</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> |  | DEPTH | DIP | AZ | DEPTH | DIP | AZ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DEPTH                            | DIP | AZ                                                                         | DEPTH | DIP                           | AZ |                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                  |     |                                                                            |       |                               |    |                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                  |     |                                                                            |       |                               |    |                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                  |     |                                                                            |       |                               |    |                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DATE COMPLETED _____ Aug 14/2001 |     | DEPARTURE _____ 189.2 E                                                    |       | DIP _____ -72 degs.           |    |                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LOGGED BY _____ D.Terney         |     | ELEVATION _____ 1681.7m                                                    |       | DEPTH _____ 74.68m (245 feet) |    |                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DATE _____ Aug 14/2001           |     | PURPOSE _____ Test magnetic anomaly M-4. to west of V.G. in hole HS-01-22. |       |                               |    |                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                          | sample no. | DEPTH |    | length m | Rec. % | Au g/t | Ag g/t | Cu % | Fe % |
|---------|-------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|----|----------|--------|--------|--------|------|------|
| FROM    | TO    |           |                                                                                                                                                                                      |            | from  | to |          |        |        |        |      |      |
| 0.00    | 1.00  | OB        | OVERBURDEN - fragments grey and black quartzite.                                                                                                                                     |            |       |    |          |        |        |        |      |      |
| 1.00    | 23.60 | 5/5=      | MARBLE - grey partly banded medium grained with patches white very coarse grained. Soft. Good coring.                                                                                |            |       |    |          |        |        |        |      |      |
|         |       |           | 2.01 banding (=bedding?) @ 31 degs.                                                                                                                                                  |            |       |    |          |        |        |        |      |      |
|         |       |           | 3.67 banding (=bedding?) @ 42 degs.                                                                                                                                                  |            |       |    |          |        |        |        |      |      |
|         |       |           | 4.56 banding (=bedding?) @ 29 degs.                                                                                                                                                  |            |       |    |          |        |        |        |      |      |
|         |       |           | 6.50 banding (=bedding?) @ 26 degs.                                                                                                                                                  |            |       |    |          |        |        |        |      |      |
|         |       |           | 7.88 banding (=bedding?) @ 28 degs.                                                                                                                                                  |            |       |    |          |        |        |        |      |      |
|         |       |           | 8.66 banding (=bedding?) @ 35 degs. (good)                                                                                                                                           |            |       |    |          |        |        |        |      |      |
|         |       |           | 10.85 banding (=bedding?) @ 27 degs.                                                                                                                                                 |            |       |    |          |        |        |        |      |      |
|         |       |           | 12.43 banding (=bedding?) @ 28 degs.                                                                                                                                                 |            |       |    |          |        |        |        |      |      |
|         |       |           | 14.56 banding (=bedding?) @ 30 degs.                                                                                                                                                 |            |       |    |          |        |        |        |      |      |
|         |       |           | 14.99 banding (=bedding?) @ 30 degs. (good)                                                                                                                                          |            |       |    |          |        |        |        |      |      |
|         |       |           | 16.39 banding (=bedding?) @ 44 degs.                                                                                                                                                 |            |       |    |          |        |        |        |      |      |
|         |       |           | 18.12 banding (=bedding?) @ 40 degs.                                                                                                                                                 |            |       |    |          |        |        |        |      |      |
|         |       |           | 19.28 banding (=bedding?) @ 34 degs.                                                                                                                                                 |            |       |    |          |        |        |        |      |      |
|         |       |           | 21.05 banding (=bedding?) @ 25 degs.                                                                                                                                                 |            |       |    |          |        |        |        |      |      |
|         |       |           | 22.05 banding (=bedding?) @ 45 degs.                                                                                                                                                 |            |       |    |          |        |        |        |      |      |
| 23.60   | 43.14 | 5=        | MARBLE - grey medium grained with poor to moderate banding. A few coarse grained white sections that are strongly recrystallized. Last 42cm is weakly silicified and partly leached. |            |       |    |          |        |        |        |      |      |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 26 |
| PAGE NO. | 2 of 8    |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                | sample<br>no. | DEPTH |       | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
|---------|-------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|-------|-------------|-----------|-----------|-----------|---------|---------|
| FROM    | TO    |           |                                                                                                                                                                                                                                            |               | from  | to    |             |           |           |           |         |         |
|         |       |           | 23.30 banding (=bedding?) @ 44 degs.                                                                                                                                                                                                       |               |       |       |             |           |           |           |         |         |
|         |       |           | 24.87 banding (=bedding?) @ 64 degs.                                                                                                                                                                                                       |               |       |       |             |           |           |           |         |         |
|         |       |           | 26.09 banding (=bedding?) @ 50 degs.                                                                                                                                                                                                       |               |       |       |             |           |           |           |         |         |
|         |       |           | 27.81 banding (=bedding?) @ 52 degs.                                                                                                                                                                                                       |               |       |       |             |           |           |           |         |         |
|         |       |           | 29.38 banding (=bedding?) @ 52 degs.                                                                                                                                                                                                       |               |       |       |             |           |           |           |         |         |
|         |       |           | 30.76 banding (=bedding?) @ 56 degs.                                                                                                                                                                                                       |               |       |       |             |           |           |           |         |         |
|         |       |           | 32.34 banding (=bedding?) @ 59 degs.                                                                                                                                                                                                       |               |       |       |             |           |           |           |         |         |
|         |       |           | 33.85 banding (=bedding?) @ 59 degs.                                                                                                                                                                                                       |               |       |       |             |           |           |           |         |         |
|         |       |           | 35.34 banding (=bedding?) @ 51 degs.                                                                                                                                                                                                       |               |       |       |             |           |           |           |         |         |
|         |       |           | 36.34 banding (=bedding?) @ 61 degs. (typical; good)                                                                                                                                                                                       |               |       |       |             |           |           |           |         |         |
|         |       |           | 38.17 banding (=bedding?) @ 63 degs.                                                                                                                                                                                                       |               |       |       |             |           |           |           |         |         |
|         |       |           | 41.58 - 41.61 dark grey siliceous sediment with fine grained disseminated<br>pyrrhotite (5%) and pyrite (3%).                                                                                                                              |               |       |       |             |           |           |           |         |         |
|         |       |           | 41.61 contact with marble @ 80 degs.                                                                                                                                                                                                       |               |       |       |             |           |           |           |         |         |
|         |       |           | 42.20 banding (=bedding?) @ 55 degs.                                                                                                                                                                                                       |               |       |       |             |           |           |           |         |         |
| 43.14   | 43.56 | 5q%C      | MARBLE - grey and white medium grained weakly silicified with minor<br>green skarnification. Minor limonite. Vuggy. Medium to coarse<br>grained chalcopyrite at start (tr). Grey/black submetallic mineral not<br>identified (?sphalerite) |               |       |       |             |           |           |           |         |         |
| 43.56   | 43.90 | 1Pst      | MASSIVE PYRITE - coarse grained rimmed with light honey brown siderite<br>(10%). First 4cm of section is talc (?serpentine) rich. Contacts at high<br>angle to core axis.                                                                  | 23711         | 43.56 | 43.90 | 0.34        | 100       | 3.98      | 3.98      |         |         |
| 43.90   | 44.20 | 3dRc      | DIOPSIDE SKARN - dark green medium grained uniform texture and<br>weakly calcareous. Minor disseminated grains of pyrrhotite (2%). Hard.                                                                                                   | 23712         | 43.90 | 44.20 | 0.30        | 100       | 0.75      | 0.75      |         |         |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 26 |
| PAGE NO. | 3 of 8    |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                                                                                     | sample<br>no. | DEPTH |       | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
|---------|-------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|-------|-------------|-----------|-----------|-----------|---------|---------|
| FROM    | TO    |           |                                                                                                                                                                                                                                                                                                                                 |               | from  | to    |             |           |           |           |         |         |
|         |       |           | Good coring.                                                                                                                                                                                                                                                                                                                    |               |       |       |             |           |           |           |         |         |
| 44.20   | 45.31 | 8fj/3dR   | SKARNIFIED PORPHYRITIC DYKE - dark green with ?diopside grading into grey dyke material still weakly skarnified. Greenish subrounded to euhedral feldspar phenocrysts up to 2cm. Fine grained disseminated pyrrhotite (tr), pyrite (tr), and chalcopyrite (tr) mainly concentrated in <1mm stringers at low angle to core axis. | 23713         | 44.20 | 45.31 | 1.11        | 100       | 0.24      |           |         |         |
|         |       |           | 45.31 contact @ 20 degs.                                                                                                                                                                                                                                                                                                        |               |       |       |             |           |           |           |         |         |
| 45.31   | 48.00 | 4q/3dY    | WEAKLY SKARNIFIED QUARTZITE - fine grained grey and green with poor banding in places. Fine grained disseminated pyrite (1%), pyrrhotite (tr) and chalcopyrite (tr). Greener section with diopside?. Hard.                                                                                                                      | 23714         | 45.31 | 48.65 | 1.34        | 100       | 0.03      |           |         |         |
|         |       |           | Good coring.                                                                                                                                                                                                                                                                                                                    | 23715         | 46.65 | 48.00 | 1.35        | 100       | 0.07      |           |         |         |
|         |       |           | 45.84 banding (=bedding?) @ 18 degs.                                                                                                                                                                                                                                                                                            |               |       |       |             |           |           |           |         |         |
|         |       |           | 46.02 small bleb molybdenite (2mm)                                                                                                                                                                                                                                                                                              |               |       |       |             |           |           |           |         |         |
|         |       |           | 47.84 disseminated molybdenite and minor red/brown garnet with 3% disseminated pyrite.                                                                                                                                                                                                                                          |               |       |       |             |           |           |           |         |         |
| 48.00   | 48.20 | 1RPCq     | SULPHIDE ZONE - fine irregular grains pyrrhotite (20%), pyrite (3%), and chalcopyrite (1%) in fine grained siliceous matrix. Hard. Good coring.                                                                                                                                                                                 | 23716         | 48.00 | 48.20 | 0.20        | 100       | 0.79      |           |         |         |
| 48.20   | 48.92 | 3gdc      | GARNET DIOPSIDE SKARN - red/brown garnet and dark green diopside Medium grained and weakly calcareous. Hard. Good coring.                                                                                                                                                                                                       | 23717         | 48.20 | 48.92 | 0.72        | 100       | 0.75      |           |         |         |
| 48.92   | 50.59 | 8/3dRPC   | WEAKLY SKARNIFIED AND MINERALIZED INTRUSIVE - pale green (with diopside?) medium grained equigranular texture with disseminated pyrrhotite (2%), pyrite (1%) and chalcopyrite (tr). Sparse 1mm sulphide                                                                                                                         | 23718         | 48.92 | 50.59 | 1.67        | 100       | 0.45      |           |         |         |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 28 |
| PAGE NO. | 4 of 8    |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                      | sample<br>no. | DEPTH |       | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
|---------|-------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|-------|-------------|-----------|-----------|-----------|---------|---------|
| FROM    | TO    |           |                                                                                                                                                                                                                                                                                                                                                                                  |               | from  | to    |             |           |           |           |         |         |
|         |       |           | stringers. Hard. Good coring.                                                                                                                                                                                                                                                                                                                                                    |               |       |       |             |           |           |           |         |         |
| 50.59   | 52.78 | 8k        | SYENITIC INTRUSIVE - medium grained pink/white/black equigranular texture. Heavy pink potash feldspar (60%) and black mafics (10%). Uniform texture. Hard. Very good coring.                                                                                                                                                                                                     |               |       |       |             |           |           |           |         |         |
| 52.76   | 55.05 | 8/3dRPC   | WEAKLY SKARNIFIED AND MINERALIZED INTRUSIVE - as 48.92-50.59. Mafic minerals largely destroyed. One section of heavier sulphides from 53.82 - 54.53 (~ 7% combined diss. pyrite, pyrrhotite and chalcopyrite) Hard. Good coring.                                                                                                                                                 | 23719         | 52.76 | 53.89 | 1.13        | 100       | 0.14      |           |         |         |
|         |       |           |                                                                                                                                                                                                                                                                                                                                                                                  | 23720         | 53.89 | 55.05 | 1.16        | 100       | 0.17      |           |         |         |
| 55.05   | 56.60 | 3dRP/8    | STRONGLY SKARNIFIED INTRUSIVE - green to dark green with disseminated pyrrhotite (2%), pyrite (2%), and chalcopyrite (tr). Remnant igneous texture. Some sections rich in black mafics. Hard. Good coring.                                                                                                                                                                       | 23721         | 55.05 | 56.60 | 1.55        | 100       | 0.10      |           |         |         |
| 56.60   | 58.94 | 3qdec     | CALC SILICATE SKARN - coarse grained red/brown garnet (25%), diopside (25%), epidote (15%), and calcite (5%). No sulphides. Hard. Good coring.                                                                                                                                                                                                                                   | 23722         | 56.60 | 58.94 | 0.34        | 100       | 0.00      |           |         |         |
| 56.94   | 60.33 | 4q<*      | WHITE QUARTZITE - very fine grained minor green alteration. Uniform texture Moderate jointing. No sulphides. Hard. Good coring.                                                                                                                                                                                                                                                  | 23723         | 56.94 | 58.68 | 1.74        | 100       | 0.03      |           |         |         |
|         |       |           |                                                                                                                                                                                                                                                                                                                                                                                  | 23724         | 58.68 | 60.33 | 1.65        | 100       | 0.00      |           |         |         |
| 60.33   | 60.96 | 4qdRPCV   | GREY QUARTZITE - fine grained with patch of diffuse dark green diopside. Specks and blebs of pyrrhotite (3%), pyrite (2%), and chalcopyrite (<1%) associated with a fracture running the length of the core at a low angle. Five specks of visible native gold all <1mm associated with clear euhedral quartz crystals in fracture. Sulphides generally have irregular outlines. | 23725         | 60.33 | 60.96 | 0.63        | 100       | 8.81      |           |         |         |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

HOLE ID HS 01- 26

PAGE NO. 5 of 8

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                             | sample<br>no. | DEPTH |       | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
|---------|-------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|-------|-------------|-----------|-----------|-----------|---------|---------|
| FROM    | TO    |           |                                                                                                                                                                                                                                                                         |               | from  | to    |             |           |           |           |         |         |
|         |       |           | Hard. Good coring.                                                                                                                                                                                                                                                      |               |       |       |             |           |           |           |         |         |
|         |       |           | 60.46 1 speck native gold (<1mm)                                                                                                                                                                                                                                        |               |       |       |             |           |           |           |         |         |
|         |       |           | 60.56 1 speck native gold (<1mm)                                                                                                                                                                                                                                        |               |       |       |             |           |           |           |         |         |
|         |       |           | 60.75 1 speck native gold (<1mm)                                                                                                                                                                                                                                        |               |       |       |             |           |           |           |         |         |
|         |       |           | 60.79 2 specks native gold (<1mm)                                                                                                                                                                                                                                       |               |       |       |             |           |           |           |         |         |
| 60.96   | 62.44 | 4qdRPC    | QUARTZITE - white and grey fine grained with minor incipient green diopside alteration in irregular patches or along joints. Associated fine grained pyrrhotite (2%), pyrite (2%) and chalcopyrite (tr). Similar to above but without visible gold.. Hard. Good coring. | 23726         | 60.96 | 62.44 | 1.48        | 100       | 0.99      |           |         |         |
| 62.44   | 64.25 | 3dg       | DIOPSIDE GARNET SKARN - dark green fine to coarse grained diopside with irregular patches coarse grained red/brown garnet. No sulphides. Soft (leached or altered?). Good coring.                                                                                       | 23727         | 62.44 | 63.34 | 0.90        | 100       | 0.07      |           |         |         |
|         |       |           |                                                                                                                                                                                                                                                                         | 23728         | 63.34 | 64.25 | 0.91        | 100       | 0.00      |           |         |         |
| 64.25   | 64.67 | 8fq       | DYKE - white medium grained with feldspar (few crystals are euhedral) and quartz. Altered green mafics (5%). Hard. Good coring.                                                                                                                                         | 23729         | 64.25 | 64.67 | 0.42        | 100       | 0.00      |           |         |         |
| 64.67   | 64.94 | 8/3dRPC   | SKARNIFIED DYKE - green diopsidic dyke with disseminated fine grained irregular specks, blebs and patches pyrrhotite (4%), pyrite (4%) and chalcopyrite (<1%). Good coring. Jointed.                                                                                    | 23730         | 64.67 | 64.94 | 0.27        | 100       | 0.00      |           |         |         |
| 64.94   | 68.27 | 3dggc     | CALC SILICATE SKARN - mainly dark apple green diopside (70%) with coarse grained brown/red garnet (20%) in irregular patches or stringers. Siliceous and weakly calcareous in places. No sulphides. Remnant igneous texture in places. Hard. Good coring.               | 23731         | 64.94 | 68.44 | 1.50        | 100       | 0.00      |           |         |         |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

HOLE ID HS 01- 26

PAGE NO. 6 of 8

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                 | sample<br>no. | DEPTH |    | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
|---------|-------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|----|-------------|-----------|-----------|-----------|---------|---------|
| FROM    | TO    |           |                                                                                                                                                                                                             |               | from  | to |             |           |           |           |         |         |
| 68.27   | 69.86 | 4q<*      | QUARTZITE - white/grey fine grained with minor white quartz stringers and green alteration. No sulphides. Hard. Good coring.                                                                                |               |       |    |             |           |           |           |         |         |
| 69.86   | 70.20 | 8fq       | DYKE - similar to 64.25 to 64.67. Hard. Good coring.<br>70.20 contact sharp and even @ 17 degs.                                                                                                             |               |       |    |             |           |           |           |         |         |
| 70.20   | 70.53 | 4q<*      | QUARTZITE - as 68.27 - 69.86. No sulphides. Hard. Good coring.                                                                                                                                              |               |       |    |             |           |           |           |         |         |
| 70.53   | 70.71 | 3dg       | DIOPSIDE GARNET SKARN - green and brown/red coarse grained.<br>hard. Good coring.<br>70.53 contact even @ 68 degs.<br>70.71 contact uneven @ 59 degs.                                                       |               |       |    |             |           |           |           |         |         |
| 70.71   | 71.57 | 4q</8f    | MIXED QUARTZITE AND MONZONITE - light grey fine grained quartzite with irregular patches of feldspathic material with igneous texture (?partly assimilated quartzite). No sulphides. Hard. Good coring.     |               |       |    |             |           |           |           |         |         |
| 71.57   | 72.01 | 8f[]q     | PORPHYRITIC DYKE - feldspathic with light grey/green color. Few 1-2cm feldspar phenocrysts. No sulphides. Hard. Good coring.                                                                                |               |       |    |             |           |           |           |         |         |
| 72.01   | 72.39 | 3dg       | DIOPSIDE GARNET SKARN - dark apple green diopside with medium grained red/brown garnet in irregular patches. Minor light green/yellow epidote. No sulphides. Hard. Good coring.<br>72.39 contact @ 66 degs. |               |       |    |             |           |           |           |         |         |
| 72.39   | 73.34 | 8f[]      | FELDSPATHIC DYKE - as 71.57 - 72.01. Hard. Very good coring.<br>73.34 irregular contact at high angle 79 degs.                                                                                              |               |       |    |             |           |           |           |         |         |
| 73.34   | 74.68 | 4q<*/3d   | QUARTZITE - white fine grained (90%) with short patches dark green                                                                                                                                          |               |       |    |             |           |           |           |         |         |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 26 |
| PAGE NO. | 7 of 8    |

| FOOTAGE |    | ROCK CODE | DESCRIPTION                                              | sample<br>no. | DEPTH |       | length | Rec. | R.Q.D. | R.Q.D. |  |  |
|---------|----|-----------|----------------------------------------------------------|---------------|-------|-------|--------|------|--------|--------|--|--|
| FROM    | TO |           |                                                          |               | from  | to    | m      | %    | m      | %      |  |  |
|         |    |           | diopside skarn at high angle to core axis. No sulphides. |               | 0.00  | 1.83  | 0.96   | 52   | 0.50   | 27     |  |  |
|         |    |           | 74.30 skarn band @ 71 degs.                              |               | 1.83  | 3.05  | 1.22   | 100  | 1.00   | 82     |  |  |
|         |    |           |                                                          |               | 3.05  | 4.57  | 1.52   | 100  | 1.52   | 100    |  |  |
|         |    |           | 74.68 E.O.H.                                             |               | 4.57  | 6.10  | 1.53   | 100  | 1.26   | 82     |  |  |
|         |    |           | A.Q.T. core split for assay.                             |               | 6.10  | 7.62  | 1.52   | 100  | 1.43   | 94     |  |  |
|         |    |           | No water return.                                         |               | 7.62  | 9.14  | 1.52   | 100  | 1.19   | 78     |  |  |
|         |    |           |                                                          |               | 9.14  | 10.67 | 1.53   | 100  | 1.48   | 97     |  |  |
|         |    |           |                                                          |               | 10.67 | 12.19 | 1.52   | 100  | 1.32   | 87     |  |  |
|         |    |           |                                                          |               | 12.19 | 13.72 | 1.53   | 100  | 1.53   | 100    |  |  |
|         |    |           |                                                          |               | 13.72 | 15.24 | 1.52   | 100  | 1.52   | 100    |  |  |
|         |    |           |                                                          |               | 15.24 | 16.76 | 1.52   | 100  | 1.45   | 95     |  |  |
|         |    |           |                                                          |               | 16.76 | 18.29 | 1.53   | 100  | 1.18   | 77     |  |  |
|         |    |           |                                                          |               | 18.29 | 19.81 | 1.52   | 100  | 1.34   | 88     |  |  |
|         |    |           |                                                          |               | 19.81 | 21.34 | 1.53   | 100  | 1.35   | 88     |  |  |
|         |    |           |                                                          |               | 21.34 | 22.86 | 1.52   | 100  | 1.45   | 95     |  |  |
|         |    |           |                                                          |               | 22.86 | 24.38 | 1.52   | 100  | 1.52   | 100    |  |  |
|         |    |           |                                                          |               | 24.38 | 25.91 | 1.53   | 100  | 1.30   | 85     |  |  |
|         |    |           |                                                          |               | 25.91 | 27.43 | 1.52   | 100  | 0.95   | 63     |  |  |
|         |    |           |                                                          |               | 27.43 | 28.96 | 1.53   | 100  | 0.68   | 44     |  |  |
|         |    |           |                                                          |               | 28.96 | 30.48 | 1.52   | 100  | 1.52   | 100    |  |  |
|         |    |           |                                                          |               | 30.48 | 32.00 | 1.52   | 100  | 1.52   | 100    |  |  |
|         |    |           |                                                          |               | 32.00 | 33.53 | 1.53   | 100  | 1.53   | 100    |  |  |
|         |    |           |                                                          |               | 33.53 | 35.05 | 1.52   | 100  | 1.41   | 93     |  |  |
|         |    |           |                                                          |               | 35.05 | 36.58 | 1.53   | 100  | 1.41   | 92     |  |  |
|         |    |           |                                                          |               | 36.58 | 38.10 | 1.52   | 100  | 1.41   | 93     |  |  |
|         |    |           |                                                          |               | 38.10 | 39.62 | 1.52   | 100  | 1.49   | 98     |  |  |
|         |    |           |                                                          |               | 39.62 | 41.15 | 1.53   | 100  | 1.45   | 95     |  |  |

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 26 |
| PAGE NO. | 8 of 8    |

Mine Geology Services      April 17/1999

|                                  |       |                                                                                             |                                                                                                                                                                                                              |                               |       |                |             |           |           |           |         |         |
|----------------------------------|-------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------|----------------|-------------|-----------|-----------|-----------|---------|---------|
| PROPERTY _____ Horn Claims       |       | <b>CANADIAN UNITED MINERALS INC.</b><br><b>DIAMOND DRILL HOLE LOG</b>                       |                                                                                                                                                                                                              | MINE _____                    |       | HOLE ID _____  |             | HS 01- 27 |           |           |         |         |
| N.T.S. _____ 116 B-7             |       |                                                                                             |                                                                                                                                                                                                              |                               |       | PAGE NO. _____ |             | 1 of 4    |           |           |         |         |
| DATE STARTED _____ Aug 14/2001   |       |                                                                                             |                                                                                                                                                                                                              |                               |       | DIP TESTS      |             |           |           |           |         |         |
| DATE COMPLETED _____ Aug 28/2001 |       | LATITUDE _____ 13.53 N                                                                      |                                                                                                                                                                                                              | AZ _____ NW (grid)            |       | DEPTH          | DIP         | AZ        | DEPTH     | DIP       | AZ      |         |
| LOGGED BY _____ D.Tenney         |       | DEPARTURE _____ 188.92 E                                                                    |                                                                                                                                                                                                              | DIP _____ -66 degs (Br)       |       |                |             |           |           |           |         |         |
| DATE _____ Aug 29/2001           |       | ELEVATION _____ 1681.7m                                                                     |                                                                                                                                                                                                              | DEPTH _____ 46.33m (152 feet) |       |                |             |           |           |           |         |         |
| PURPOSE _____                    |       | Test magnetic anomaly M-4 on strike to west of visible gold in holes HS-01-22 and HS-01-25. |                                                                                                                                                                                                              |                               |       |                |             |           |           |           |         |         |
| FOOTAGE                          |       | ROCK CODE                                                                                   | DESCRIPTION                                                                                                                                                                                                  | sample<br>no.                 | DEPTH |                | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
| FROM                             | TO    |                                                                                             |                                                                                                                                                                                                              |                               | from  | to             |             |           |           |           |         |         |
| 0.00                             | 0.98  | OB                                                                                          | OVERBURDEN - limestone and quartzite rubble. Most of core lost.                                                                                                                                              |                               |       |                |             |           |           |           |         |         |
| 0.98                             | 16.71 | 5= /5>                                                                                      | MARBLE - mainly grey to white partly banded medium grained marble with few short white sections that are very coarse grained (1cm calcite crystals). Massive with generally poor banding. Soft. Good coring. |                               |       |                |             |           |           |           |         |         |
|                                  |       |                                                                                             | 1.45 banding (=bedding?) @ 37 degs.                                                                                                                                                                          |                               |       |                |             |           |           |           |         |         |
|                                  |       |                                                                                             | 3.00 banding (=bedding?) @ 39 degs.                                                                                                                                                                          |                               |       |                |             |           |           |           |         |         |
|                                  |       |                                                                                             | 5.69 banding (=bedding?) @ 41 degs.                                                                                                                                                                          |                               |       |                |             |           |           |           |         |         |
|                                  |       |                                                                                             | 8.20 banding (=bedding?) @ 38 degs.                                                                                                                                                                          |                               |       |                |             |           |           |           |         |         |
|                                  |       |                                                                                             | 10.30 banding (=bedding?) @ 28 degs.                                                                                                                                                                         |                               |       |                |             |           |           |           |         |         |
|                                  |       |                                                                                             | 21.11 banding (=bedding?) @ 55 degs.                                                                                                                                                                         |                               |       |                |             |           |           |           |         |         |
|                                  |       |                                                                                             | 13.90 banding (=bedding?) @ 45 degs. (good; typical)                                                                                                                                                         |                               |       |                |             |           |           |           |         |         |
|                                  |       |                                                                                             | 16.23 banding (=bedding?) @ 46 degs. (good; typical)                                                                                                                                                         |                               |       |                |             |           |           |           |         |         |
| 16.71                            | 31.10 | 5^ /5>                                                                                      | MARBLE -as above - with more white very coarse grained unbanded sections. Soft. Good coring.                                                                                                                 |                               |       |                |             |           |           |           |         |         |
|                                  |       |                                                                                             | 17.40 banding (=bedding?) @ 75 degs.                                                                                                                                                                         |                               |       |                |             |           |           |           |         |         |
|                                  |       |                                                                                             | 19.61 banding (=bedding?) @ 45 degs. (good)                                                                                                                                                                  |                               |       |                |             |           |           |           |         |         |
|                                  |       |                                                                                             | 20.54 banding (=bedding?) @ 54 degs.                                                                                                                                                                         |                               |       |                |             |           |           |           |         |         |
|                                  |       |                                                                                             | 22.00 banding (=bedding?) @ 46 degs.                                                                                                                                                                         |                               |       |                |             |           |           |           |         |         |
|                                  |       |                                                                                             | 23.59 banding (=bedding?) @ 76 degs.                                                                                                                                                                         |                               |       |                |             |           |           |           |         |         |
|                                  |       |                                                                                             | 25.01 banding (=bedding?) @ 58 degs.                                                                                                                                                                         |                               |       |                |             |           |           |           |         |         |
|                                  |       |                                                                                             | 26.38 banding (=bedding?) @ 58 degs. (poor)                                                                                                                                                                  |                               |       |                |             |           |           |           |         |         |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |          |
|----------|----------|
| HOLE ID  | HS 01-27 |
| PAGE NO. | 2 of 4   |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                 | sample<br>no. | DEPTH |       | length | Rec. | Au   | Ag  | Cu | Fe |
|---------|-------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|-------|--------|------|------|-----|----|----|
| FROM    | TO    |           |                                                                                                                                                                             |               | from  | to    | m      | %    | g/t  | g/t | %  | %  |
|         |       |           | 27.70 banding (=bedding?) @ 47 degs. (good; typical)                                                                                                                        |               |       |       |        |      |      |     |    |    |
|         |       |           | 29.48 banding (=bedding?) @ 73 degs. (strong; typical)                                                                                                                      |               |       |       |        |      |      |     |    |    |
|         |       |           | 31.23 banding (=bedding?) @ 70 degs.                                                                                                                                        |               |       |       |        |      |      |     |    |    |
|         |       |           | 32.58 banding (=bedding?) @ 66 degs.                                                                                                                                        |               |       |       |        |      |      |     |    |    |
|         |       |           | 34.73 banding (=bedding?) @ 59 degs. (irregular)                                                                                                                            |               |       |       |        |      |      |     |    |    |
|         |       |           | 36.74 banding (=bedding?) @ 77 degs.                                                                                                                                        |               |       |       |        |      |      |     |    |    |
|         |       |           | 38.44 banding (=bedding?) @ 62 degs. (poor)                                                                                                                                 |               |       |       |        |      |      |     |    |    |
|         |       |           | 39.82 banding (=bedding?) @ 77 degs.                                                                                                                                        |               |       |       |        |      |      |     |    |    |
| 31.10   | 41.75 | 5=5>      | MARBLE - dark grey medium to coarse grained mainly banded. Soft.<br>Very good coring.                                                                                       |               |       |       |        |      |      |     |    |    |
|         |       |           | 41.11 banding (=bedding?) @ 78 degs. (strong; typical)                                                                                                                      |               |       |       |        |      |      |     |    |    |
| 41.75   | 42.28 | 5/4/3g    | WEAKLY SKARNIFIED MARBLE AND QUARTZITE - brown/grey weakly<br>banded quartzite with patches white marble, and short section of brown<br>garnet. Hard. Fair coring. Jointed. |               |       |       |        |      |      |     |    |    |
| 42.28   | 42.33 | 3gd       | GARNET DIOPSIDE SKARN - brown and green fine grained. No sulphides.<br>Hard. Fair coring.                                                                                   |               |       |       |        |      |      |     |    |    |
| 42.33   | 42.52 | 8<        | IGNEOUS INTRUSIVE - fine grained white with speckled black mafics.<br>Minor white quartz veining and incipient green diopside. Hard.<br>Good coring.                        |               |       |       |        |      |      |     |    |    |
|         |       |           | 42.33 irregular contact @ ~ 39 degs.                                                                                                                                        |               |       |       |        |      |      |     |    |    |
| 42.52   | 42.88 | 3dRC/8    | SKARNIFIED INTRUSIVE - dark green diopside skarn with disseminated<br>specks and blebs pyrrhotite (4%), and fine grained chalcopyrite (<1%).                                | 23732         | 42.52 | 42.88 | 0.36   | 100  | 0.21 |     |    |    |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 27 |
| PAGE NO. | 3 of 4    |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                | sample<br>no. | DEPTH |       | length | Rec. | R.Q.D. | R.Q.D. |  |  |
|---------|-------|-----------|----------------------------------------------------------------------------|---------------|-------|-------|--------|------|--------|--------|--|--|
| FROM    | TO    |           |                                                                            |               | from  | to    | m      | %    | M      | %      |  |  |
|         |       |           | disseminated and as 2mm stringer. Remnants of unskarnified intrusive.      |               | 0.00  | 1.55  | 0.82   | 53   | 0.50   | 32     |  |  |
|         |       |           | Hard. Good coring.                                                         |               | 1.55  | 2.13  | 0.55   | 95   | 0.55   | 95     |  |  |
|         |       |           |                                                                            |               | 2.13  | 3.66  | 1.53   | 100  | 1.43   | 93     |  |  |
| 42.88   | 43.10 | 4d        | QUARTZITE - weakly skarnified green with diopside. No sulphides.           |               | 3.66  | 4.27  | 0.61   | 100  | 0.49   | 80     |  |  |
|         |       |           | Weakly banded. Fair coring. Jointed.                                       |               | 4.27  | 5.79  | 1.52   | 100  | 1.36   | 89     |  |  |
|         |       |           |                                                                            |               | 5.79  | 7.32  | 1.53   | 100  | 1.35   | 88     |  |  |
| 43.10   | 43.51 | 8f□       | FELDSPAR PORPHYRY DYKE - grey medium grained with 1-2 cm white             |               | 7.32  | 8.84  | 1.52   | 100  | 1.30   | 86     |  |  |
|         |       |           | feldspar phenocrysts that are euhedral to weakly corroded. No sulphides.   |               | 8.84  | 10.36 | 1.52   | 100  | 1.49   | 98     |  |  |
|         |       |           | Small 2cm inclusions of green skarn. Hard. Good coring.                    |               | 10.36 | 11.89 | 1.53   | 100  | 1.34   | 88     |  |  |
|         |       |           |                                                                            |               | 11.89 | 13.41 | 1.52   | 100  | 1.35   | 89     |  |  |
| 43.51   | 43.94 | 8/4/3     | MIXED ZONE - skarnified quartzite with remnant igneous texture in patches. |               | 13.41 | 14.94 | 1.53   | 100  | 1.33   | 87     |  |  |
|         |       |           | Incipient green diopside. No sulphides. Hard. Jointed core.                |               | 14.94 | 16.46 | 1.52   | 100  | 1.24   | 82     |  |  |
|         |       |           |                                                                            |               | 16.46 | 17.98 | 1.52   | 100  | 1.27   | 84     |  |  |
| 43.94   | 44.47 | 4q<       | QUARTZITE - grey/green fine grained very weakly skarnified. Minor fine     |               | 17.98 | 19.51 | 1.53   | 100  | 1.21   | 79     |  |  |
|         |       |           | grained pyrite (2%) mainly on jointes. Fair coring. Jointed.               |               | 19.51 | 21.03 | 1.52   | 100  | 1.52   | 100    |  |  |
|         |       |           |                                                                            |               | 21.03 | 22.56 | 1.53   | 100  | 1.53   | 100    |  |  |
| 44.47   | 46.33 | 4q/8      | QUARTZITE - white/grey fine grained very hard. Small patches of            |               | 22.56 | 24.08 | 1.52   | 100  | 1.44   | 95     |  |  |
|         |       |           | igneous material (medium grained white feldspar and clear quartz). Trace   |               | 24.08 | 26.60 | 1.52   | 60   | 1.31   | 52     |  |  |
|         |       |           | fine grained pyrite.                                                       |               | 26.60 | 27.13 | 1.53   | 289  | 1.53   | 289    |  |  |
|         |       |           |                                                                            |               | 27.13 | 28.65 | 1.52   | 100  | 1.36   | 89     |  |  |
|         |       |           | 46.33 E.O.H.                                                               |               | 28.65 | 30.18 | 1.53   | 100  | 1.53   | 100    |  |  |
|         |       |           | A.Q.T. core split for assay.                                               |               | 30.18 | 31.70 | 1.52   | 100  | 1.44   | 95     |  |  |
|         |       |           | Hole abandoned as quartzite too hard to drill.                             |               | 31.70 | 33.22 | 1.52   | 100  | 1.52   | 100    |  |  |
|         |       |           | No water return.                                                           |               | 33.22 | 34.75 | 1.53   | 100  | 1.50   | 98     |  |  |
|         |       |           |                                                                            |               | 34.75 | 36.27 | 1.52   | 100  | 1.45   | 95     |  |  |
|         |       |           |                                                                            |               | 36.27 | 37.80 | 1.53   | 100  | 1.53   | 100    |  |  |
|         |       |           |                                                                            |               | 37.80 | 39.32 | 1.52   | 100  | 1.52   | 100    |  |  |

|                                                                       |          |          |
|-----------------------------------------------------------------------|----------|----------|
| <b>CANADIAN UNITED MINERALS INC.</b><br><b>DIAMOND DRILL HOLE LOG</b> | HOLE ID  | HS 01-27 |
|                                                                       | PAGE NO. | 4 of 4   |

HS 01-27

4 of 4

[illegible]

|                                                                          |     |                                                                       |       |                              |               |                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------------------------------------------------------|-----|-----------------------------------------------------------------------|-------|------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--|--|-------|-----|----|-------|-----|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| PROPERTY _____ Horn Claims                                               |     | <b>CANADIAN UNITED MINERALS INC.</b><br><b>DIAMOND DRILL HOLE LOG</b> |       | MINE _____                   | HOLE ID _____ |                                                                                                                                                                                                                                                                                                                                                                                                                                     | HS 01- 28 |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N.T.S. _____ 116 B-7                                                     |     |                                                                       |       | PAGE NO. _____               |               | 1 of 2                                                                                                                                                                                                                                                                                                                                                                                                                              |           |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DATE STARTED _____ Aug 28/2001                                           |     | LATITUDE _____ 9.10 N                                                 |       | AZ _____ -                   |               | <div style="text-align: center;">DIP TESTS</div> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>DEPTH</td><td>DIP</td><td>AZ</td><td>DEPTH</td><td>DIP</td><td>AZ</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> |           |  |  | DEPTH | DIP | AZ | DEPTH | DIP | AZ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DEPTH                                                                    | DIP | AZ                                                                    | DEPTH | DIP                          | AZ            |                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                          |     |                                                                       |       |                              |               |                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                          |     |                                                                       |       |                              |               |                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                          |     |                                                                       |       |                              |               |                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DATE COMPLETED _____ Aug 29/2001                                         |     | DEPARTURE _____ 94.25 E                                               |       | DIP _____ -90 degs.          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LOGGED BY _____ D.Tenney                                                 |     | ELEVATION _____ 1669.5m                                               |       | DEPTH _____ 10.36m (34 feet) |               |                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DATE _____ Aug 29/2001                                                   |     | DEPTH _____ 10.36m (34 feet)                                          |       |                              |               |                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PURPOSE _____ Test magnetic anomaly M-5 east of showing in trench 98-05. |     |                                                                       |       |                              |               |                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                         | sample<br>no. | DEPTH |      | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
|---------|-------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|------|-------------|-----------|-----------|-----------|---------|---------|
| FROM    | TO    |           |                                                                                                                                                                                                                                                                                                                                                                                                     |               | from  | to   |             |           |           |           |         |         |
| 0.00    | 3.64  | OB/5-     | OVERBURDEN - broken marble. Casing to 0.61m.                                                                                                                                                                                                                                                                                                                                                        |               |       |      |             |           |           |           |         |         |
| 3.64    | 4.08  | 5         | MARBLE - grey and white coarse grained poor banding. Soft.<br>partly broken.<br>3.86 banding (=bedding?) @ 71 degs. (poor)                                                                                                                                                                                                                                                                          |               |       |      |             |           |           |           |         |         |
| 4.08    | 5.22  | 4qΔ       | QUARTZITE - grey fine grained partly banded and cherty. Fine grained<br>disseminated pyrite and pyrrhotite (2%). Hard. Moderate jointing.<br>Some sections with feldspar clasts that are flattened as in a welded tuff.<br>4.47 banding (=bedding?) @ 34 degs.<br>5.14 banding (=bedding?) @ 28 degs.                                                                                               |               |       |      |             |           |           |           |         |         |
| 5.22    | 6.57  | 8/4R/3    | HYBRID - weakly skarnified partially assimilated siliceous sediment. Grey,<br>dark grey, and green tinged with igneous or remnant igneous texture.<br>Patches of dark grey sediment from 5.69m with strong fine grained<br>disseminated pyrrhotite (3%) and very fine grained chalcopryite (tr).<br>Sections with igneous texture are partly skarnified green with ?diopside.<br>Hard. Good coring. | 23733         | 5.69  | 6.57 | 0.88        | 100       | 0.03      |           |         |         |
| 6.57    | 6.97  | 8<        | INTRUSIVE - fine grained ?dyke grey weakly altered with 3mm quartz/<br>pyrrhotite/chalcopryite stringer along core.                                                                                                                                                                                                                                                                                 |               |       |      |             |           |           |           |         |         |
| 6.97    | 10.36 | 8/3dg     | SKARNIFIED INTRUSIVE (ENDOSKARN) - white coarse grained with                                                                                                                                                                                                                                                                                                                                        | 23734         | 6.57  | 7.77 | 1.20        | 100       | 0.03      |           |         |         |

|                                                                       |          |          |
|-----------------------------------------------------------------------|----------|----------|
| <b>CANADIAN UNITED MINERALS INC.</b><br><b>DIAMOND DRILL HOLE LOG</b> | HOLE ID  | HS 01-28 |
|                                                                       | PAGE NO. | 2 of 2   |

HS 01- 28

2 of 2

[illegible]

|                                                                |  |                                      |  |                                  |     |                          |       |     |    |
|----------------------------------------------------------------|--|--------------------------------------|--|----------------------------------|-----|--------------------------|-------|-----|----|
| PROPERTY <u>Horn Claims</u>                                    |  | <b>CANADIAN UNITED MINERALS INC.</b> |  | MINE <u>                    </u> |     | HOLE ID <u>HS 01- 29</u> |       |     |    |
| N.T.S. <u>116 B-7</u>                                          |  |                                      |  |                                  |     | PAGE NO. <u>1 of 1</u>   |       |     |    |
| DATE STARTED <u>Aug 29/2001</u>                                |  | <b>DIAMOND DRILL HOLE LOG</b>        |  | DIP TESTS                        |     |                          |       |     |    |
| DATE COMPLETED <u>Aug 30/2001</u>                              |  |                                      |  | DEPTH                            | DIP | AZ                       | DEPTH | DIP | AZ |
| LOGGED BY <u>D.Tenney</u>                                      |  |                                      |  |                                  |     |                          |       |     |    |
| DATE <u>Aug 30/2001</u>                                        |  |                                      |  |                                  |     |                          |       |     |    |
| PURPOSE <u>Test magnetic anomaly M-5 east of trench 98-05.</u> |  |                                      |  |                                  |     |                          |       |     |    |
| LATITUDE <u>10.5 N</u>                                         |  | AZ <u>-</u>                          |  |                                  |     |                          |       |     |    |
| DEPARTURE <u>71.70 E</u>                                       |  | DIP <u>-90 degs.</u>                 |  |                                  |     |                          |       |     |    |
| ELEVATION <u>1671.4m</u>                                       |  | DEPTH <u>8.23m (27 feet)</u>         |  |                                  |     |                          |       |     |    |

| FOOTAGE |      | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                                                       | sample<br>no. | DEPTH |      | length | Rec. | R.Q.D. | R.Q.D. |  |  |
|---------|------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|------|--------|------|--------|--------|--|--|
| FROM    | TO   |           |                                                                                                                                                                                                                                                                                                   |               | from  | to   | m      | %    | m      | %      |  |  |
| 0.00    | 1.13 | OB        | OVERBURDEN - no recovery                                                                                                                                                                                                                                                                          |               | 0.00  | 2.13 | 1.05   | 49   | 0.14   | 7      |  |  |
|         |      |           |                                                                                                                                                                                                                                                                                                   |               | 2.13  | 3.66 | 1.16   | 76   | 0.36   | 24     |  |  |
| 1.13    | 1.35 | 5--       | MARBLE - white very broken (?overburden)                                                                                                                                                                                                                                                          |               | 3.66  | 5.18 | 0.50   | 33   | 0.20   | 13     |  |  |
|         |      |           |                                                                                                                                                                                                                                                                                                   |               | 5.18  | 6.71 | 0.80   | 52   | 0.53   | 35     |  |  |
| 1.35    | 1.75 | 4q<*□     | WHITE QUARTZITE - bleached micclastic (tapioca) texture. Hard.<br>Partly broken.                                                                                                                                                                                                                  |               | 6.71  | 8.23 | 0.53   | 35   | 0.14   | 9      |  |  |
|         |      |           |                                                                                                                                                                                                                                                                                                   |               |       |      |        |      |        |        |  |  |
| 1.75    | 2.08 | 3gd       | GARNET DIOPSIDE SKARN - red/brown and brown garnet with green<br>diopside. Coarse grained. Broken core.                                                                                                                                                                                           |               |       |      |        |      |        |        |  |  |
|         |      |           |                                                                                                                                                                                                                                                                                                   |               |       |      |        |      |        |        |  |  |
| 2.08    | 3.55 | 5-        | MARBLE - grey to dark grey impure marble. Soft. Mainly jointed/broken.                                                                                                                                                                                                                            |               |       |      |        |      |        |        |  |  |
|         |      |           |                                                                                                                                                                                                                                                                                                   |               |       |      |        |      |        |        |  |  |
| 3.55    | 8.23 | 4qfΔ-     | QUARTZITE - siliceous and feldspathic sediments with small scale (1cm)<br>and large scale (5cm) fragmental texture. Some fragments flattened and<br>irregular as in welded tuff. Bleached at start. Trace of fine grained<br>pyrrhotite and very fine grained sulphides (?pyrrhotite and pyrite). |               |       |      |        |      |        |        |  |  |
|         |      |           |                                                                                                                                                                                                                                                                                                   |               |       |      |        |      |        |        |  |  |
|         |      |           | 8.23 E.O.H.                                                                                                                                                                                                                                                                                       |               |       |      |        |      |        |        |  |  |
|         |      |           | A.Q.T. Core.                                                                                                                                                                                                                                                                                      |               |       |      |        |      |        |        |  |  |
|         |      |           | No water return.                                                                                                                                                                                                                                                                                  |               |       |      |        |      |        |        |  |  |
|         |      |           |                                                                                                                                                                                                                                                                                                   |               |       |      |        |      |        |        |  |  |
|         |      |           |                                                                                                                                                                                                                                                                                                   |               |       |      |        |      |        |        |  |  |
|         |      |           |                                                                                                                                                                                                                                                                                                   |               |       |      |        |      |        |        |  |  |

|                                                       |  |                                      |  |                              |  |             |  |                |     |           |  |
|-------------------------------------------------------|--|--------------------------------------|--|------------------------------|--|-------------|--|----------------|-----|-----------|--|
| PROPERTY _____ Horn Claims                            |  | <b>CANADIAN UNITED MINERALS INC.</b> |  |                              |  | MINE _____  |  | HOLE ID _____  |     | HS 01- 30 |  |
| N.T.S. _____ 116 B-7                                  |  | <b>DIAMOND DRILL HOLE LOG</b>        |  |                              |  |             |  | PAGE NO. _____ |     | 1 of 3    |  |
| DATE STARTED _____ Aug 31/2001                        |  |                                      |  |                              |  |             |  | DIP TESTS      |     |           |  |
| DATE COMPLETED _____ Sept 1/2001                      |  | LATITUDE _____ 106.70 N              |  | AZ _____ -                   |  | DEPTH _____ |  | DEPTH          | DIP | AZ        |  |
| LOGGED BY _____ D.Tenney                              |  | DEPARTURE _____ 78.15 E              |  | DIP _____ -90 degs.          |  |             |  |                |     |           |  |
| DATE _____ Sept 1/2001                                |  | ELEVATION _____ 1697.1m              |  | DEPTH _____ 13.72m (45 feet) |  |             |  |                |     |           |  |
| PURPOSE _____ Locate magnetic anomaly M-2 (Bullseye). |  |                                      |  |                              |  |             |  |                |     |           |  |

| FOOTAGE |      | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                                         | sample<br>no. | DEPTH |      | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
|---------|------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|------|-------------|-----------|-----------|-----------|---------|---------|
| FROM    | TO   |           |                                                                                                                                                                                                                                                                                     |               | from  | to   |             |           |           |           |         |         |
| 0.00    | 1.42 | OB        | OVERBURDEN -= small fragments mainly quartzite.                                                                                                                                                                                                                                     |               |       |      |             |           |           |           |         |         |
| 1.42    | 3.42 | 5-        | MARBLE - white and grey medium to coarse grained partly banded. Soft.<br>Fair coring.<br>1.97 - 2.13 very broken core (cave?). Mostly marble.<br>1.50 banding (=bedding?) @ 26 degs.<br>3.35 banding (=bedding?) @ 42 degs. (strong; typical)                                       |               |       |      |             |           |           |           |         |         |
| 3.42    | 4.57 | 7q*=-     | SILICEOUS ARGILLITE - dark grey bleached to light brown in places.<br>Finely laminated. Disseminated fine grained pyrrhotite (2%) largely on<br>bedding planes. Weakly graphitic? Hard. Jointed. Minor broken core.<br>3.63 fine bedding @ 35 degs.<br>4.06 fine bedding @ 33 degs. |               |       |      |             |           |           |           |         |         |
| 4.57    | 4.63 | 3dR       | DIOPSIDE SKARN - light to dark green with thin (2mm) stringer and<br>disseminated, specks and blebs (0.5cm) of pyrrhotite. Specks chalcopryite<br>(tr). Sulphide texture irregular. Derived from quartzite?                                                                         | 23735         | 4.57  | 4.63 | 0.06        | 100       | 0.00      |           |         |         |
| 4.63    | 6.02 | 4*-       | QUARTZITE - bleached siliceous sediment as 3.42 - 4.57. Banded. Hard.<br>broken core.<br>4.83 banding (=bedding?) @ 19 degs.                                                                                                                                                        | 23736         | 4.63  | 6.02 | 0.30        | 22        | 0.00      |           |         |         |
| 6.02    | 6.15 | 3dL--     | DIOPSIDE SKARN - green/grey fine grained derived from quartzite. Minor                                                                                                                                                                                                              | 23737         | 6.02  | 7.62 | 0.84        | 53        | 0.00      |           | 0.14    | 6.70    |

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 30 |
| PAGE NO. | 2 of 3    |

[illegible]

|                                                                       |          |           |
|-----------------------------------------------------------------------|----------|-----------|
| <b>CANADIAN UNITED MINERALS INC.</b><br><b>DIAMOND DRILL HOLE LOG</b> | HOLE ID  | HS 01- 30 |
|                                                                       | PAGE NO. | 3 of 3    |

HS 01-30

3 of 3

[illegible]

| PROPERTY _____ Horn Claims                                     |     | <b>CANADIAN UNITED MINERALS INC.</b><br><b>DIAMOND DRILL HOLE LOG</b> |       | MINE _____                   |    | HOLE ID _____ HS 01- 31                                                                                                                                                                                                                                                                                                                                                                                                   |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------------------------------------------|-----|-----------------------------------------------------------------------|-------|------------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|--|--|--|--|--|-------|-----|----|-------|-----|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| N.T.S. _____ 116 B-7                                           |     |                                                                       |       | PAGE NO. _____               |    | 1 of 2                                                                                                                                                                                                                                                                                                                                                                                                                    |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DATE STARTED _____ Sept 1/2001                                 |     | LATITUDE _____ 106.4 N                                                |       | AZ _____ South (grid)        |    | <table border="1" style="width:100%; border-collapse: collapse;"> <tr><th colspan="6">DIP TESTS</th></tr> <tr> <th>DEPTH</th><th>DIP</th><th>AZ</th><th>DEPTH</th><th>DIP</th><th>AZ</th></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> |  | DIP TESTS |  |  |  |  |  | DEPTH | DIP | AZ | DEPTH | DIP | AZ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DIP TESTS                                                      |     |                                                                       |       |                              |    |                                                                                                                                                                                                                                                                                                                                                                                                                           |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DEPTH                                                          | DIP | AZ                                                                    | DEPTH | DIP                          | AZ |                                                                                                                                                                                                                                                                                                                                                                                                                           |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                |     |                                                                       |       |                              |    |                                                                                                                                                                                                                                                                                                                                                                                                                           |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                |     |                                                                       |       |                              |    |                                                                                                                                                                                                                                                                                                                                                                                                                           |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                |     |                                                                       |       |                              |    |                                                                                                                                                                                                                                                                                                                                                                                                                           |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DATE COMPLETED _____ Sept 2/2001                               |     | DEPARTURE _____ 78.15 E                                               |       | DIP _____ -81 degs.          |    |                                                                                                                                                                                                                                                                                                                                                                                                                           |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LOGGED BY _____ D.Tenney                                       |     | ELEVATION _____ 1697.1m                                               |       | DEPTH _____ 10.06m (33 feet) |    |                                                                                                                                                                                                                                                                                                                                                                                                                           |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DATE _____ Sept 3/2001                                         |     |                                                                       |       |                              |    |                                                                                                                                                                                                                                                                                                                                                                                                                           |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PURPOSE _____ Locate cause of magnetic anomaly M-2 (Bullseye). |     |                                                                       |       |                              |    |                                                                                                                                                                                                                                                                                                                                                                                                                           |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| FOOTAGE |      | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                            | sample no. | DEPTH |      | length m | Rec. % | Au g/t | Ag g/t | Cu %       | Fe % |
|---------|------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|------|----------|--------|--------|--------|------------|------|
| FROM    | TO   |           |                                                                                                                                                                                                                                                        |            | from  | to   |          |        |        |        |            |      |
| 0.00    | 2.44 | OB--      | OVERBURDEN - lost core, broken rubble of grey marble, dark grey quartzite and rusty ?skarn.                                                                                                                                                            |            |       |      |          |        |        |        |            |      |
| 2.44    | 4.37 | 4q<*-     | QUARTZITE - fine grained bleached partly banded and weakly skarnified in patches. Light grey/green with dark grey less altered sections. Disseminated fine grained pyrrhotite (3%) in skarnified sections. Mainly broken.. Minor lost core.            |            |       |      |          |        |        |        |            |      |
| 4.37    | 5.79 | 5>/5=     | MARBLE - white and coarse grained with greyer banded sections that are medium grained. Fair coring. Some broken.<br>4.99 banding (=bedding?) @ 69 degs. (typical)                                                                                      |            |       |      |          |        |        |        |            |      |
| 5.79    | 6.10 | 5>/5=     | MARBLE - as above. Broken.                                                                                                                                                                                                                             |            |       |      |          |        |        |        |            |      |
| 6.10    | 8.98 | 5>/5=     | MARBLE - AS 4.37 - 5.79.<br>6.85 banding (=bedding?) @ 52 degs. (typical)<br>8.00 banding (=bedding?) @ 57 degs. (strong; typical)                                                                                                                     |            |       |      |          |        |        |        |            |      |
| 8.98    | 9.03 | 1LX/LC%   | GOSSAN - massive brown limonite (non-magnetic) possibly replacing marble breccia with rounded and angular fragments up to 1cm. Vuggy (10%). No sulphides. Driller reports 30cm of this material washed away and not recovered. Fair coring. Lost core. | 23739      | 8.98  | 9.03 | 0.05     | 100    | 0.00   |        | not split. |      |
|         |      |           |                                                                                                                                                                                                                                                        |            |       |      |          |        |        |        |            |      |
|         |      |           |                                                                                                                                                                                                                                                        |            |       |      |          |        |        |        |            |      |
|         |      |           |                                                                                                                                                                                                                                                        |            |       |      |          |        |        |        |            |      |
|         |      |           |                                                                                                                                                                                                                                                        |            |       |      |          |        |        |        |            |      |

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 31 |
| PAGE NO. | 2 of 2    |

Mine Geology Services April 17/1999

|                                                               |     |                                                                       |       |                             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------------------------------------------------|-----|-----------------------------------------------------------------------|-------|-----------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--|--|-------|-----|----|-------|-----|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| PROPERTY _____ Horn Claims                                    |     | <b>CANADIAN UNITED MINERALS INC.</b><br><b>DIAMOND DRILL HOLE LOG</b> |       | MINE _____                  | HOLE ID _____ |                                                                                                                                                                                                                                                                                                                                                                                                                                     | HS 01- 32 |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N.T.S. _____ 118 B-7                                          |     |                                                                       |       | PAGE NO. _____              |               | 1 of 2                                                                                                                                                                                                                                                                                                                                                                                                                              |           |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DATE STARTED _____ Sept 2/2001                                |     | LATITUDE _____ 107.0 N                                                |       | AZ _____ North (grid)       |               | <div style="text-align: center;">DIP TESTS</div> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>DEPTH</td><td>DIP</td><td>AZ</td><td>DEPTH</td><td>DIP</td><td>AZ</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> |           |  |  | DEPTH | DIP | AZ | DEPTH | DIP | AZ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DEPTH                                                         | DIP | AZ                                                                    | DEPTH | DIP                         | AZ            |                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                               |     |                                                                       |       |                             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                               |     |                                                                       |       |                             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                               |     |                                                                       |       |                             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DATE COMPLETED _____ Sept 3/2001                              |     | DEPARTURE _____ 78.15 E                                               |       | DIP _____ -60 degs          |               |                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LOGGED BY _____ D.Tenney                                      |     | ELEVATION _____ 1697.1m                                               |       | DEPTH _____ 9.75m (32 feet) |               |                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DATE _____ Sept 3/2001                                        |     |                                                                       |       |                             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PURPOSE _____ Find source of magnetic anomaly M-2 (Bullseye). |     |                                                                       |       |                             |               |                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| FOOTAGE |      | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                    | sample<br>no. | DEPTH |      | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
|---------|------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|------|-------------|-----------|-----------|-----------|---------|---------|
| FROM    | TO   |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                |               | from  | to   |             |           |           |           |         |         |
| 0.00    | 1.44 | OB        | OVERBURDEN - mostly lost core. Few fragments of marble and grey quartzite.                                                                                                                                                                                                                                                                                                                                                                     |               |       |      |             |           |           |           |         |         |
| 1.44    | 1.90 | 5--       | MARBLE - mainly massive white marble with some grey sections. Very broken.                                                                                                                                                                                                                                                                                                                                                                     |               |       |      |             |           |           |           |         |         |
| 1.90    | 5.70 | 5         | MARBLE - grey medium grained partly banded with minor white very coarse grained recrystallized sections. Banding generally at low angle to core axis. Soft. Mainly good coring.<br>3.38 banding (=bedding?) @ 13 degs.<br>5.60 banding (=bedding?) @ 24 degs.                                                                                                                                                                                  |               |       |      |             |           |           |           |         |         |
| 5.70    | 9.00 | 4qR=      | QUARTZITE - brown/grey fine grained cherty with low angle banding.<br>Disseminated fine grained pyrrhotite (4%) mainly aligned along bedding planes. Few 1-2mm pyrrhotite stringers also parallel to bedding.<br>Bands of reddish biotite along some bedding planes. Mostly good coring.<br>6.80 - 7.40 broken and fractured core (not a fault?)<br>6.00 banding (=bedding?) @ 24 degs. (strong)<br>7.85 banding along core ± 0 degs (strong). | 23740         | 5.70  | 6.80 | 1.10        | 100       | 0.00      |           |         |         |
|         |      |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                | 23741         | 6.80  | 7.90 | 1.10        | 100       | 0.00      |           |         |         |
|         |      |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                | 23742         | 7.90  | 9.00 | 1.10        | 100       | 0.00      |           |         |         |
| 9.00    | 9.75 | 4/3dR     | SKARNIFIED QUARTZITE - pale green with diopside and minor "pink" alteration. Fine grained with few stringers and blebs pyrrhotite (2%).<br>Hard. Good coring.                                                                                                                                                                                                                                                                                  | 23743         | 9.00  | 9.75 | 0.75        | 100       | 0.00      |           |         |         |

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 32 |
| PAGE NO. | 2 of 2    |

Mine Geology Services      April 17/1989

|                                                             |       |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                              |       |                |             |           |           |           |         |         |
|-------------------------------------------------------------|-------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------|----------------|-------------|-----------|-----------|-----------|---------|---------|
| PROPERTY _____ Horn Claims                                  |       | <b>CANADIAN UNITED MINERALS INC.</b><br><b>DIAMOND DRILL HOLE LOG</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | MINE _____                   |       | HOLE ID _____  |             | HS 01- 33 |           |           |         |         |
| N.T.S. _____ 116 B-7                                        |       |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                              |       | PAGE NO. _____ |             | 1 of 2    |           |           |         |         |
| DATE STARTED _____ Sept 3/2001                              |       |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                              |       | DIP TESTS      |             |           |           |           |         |         |
| DATE COMPLETED _____ Sept 4/2001                            |       | LATITUDE _____ 106.70 N                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | AZ _____ West                |       |                |             | DEPTH     | DIP       | AZ        |         |         |
| LOGGED BY _____ D.Tenney                                    |       | DEPARTURE _____ 77.85 E                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DIP _____ -60 degs.          |       |                |             |           |           |           |         |         |
| DATE _____ Sept 4/2001                                      |       | ELEVATION _____ 1697.1m                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DEPTH _____ 17.37m (57 feet) |       |                |             |           |           |           |         |         |
| PURPOSE _____ Find case of magnetic anomaly M-2 (Bultseye). |       |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                              |       |                |             |           |           |           |         |         |
| FOOTAGE                                                     |       | ROCK CODE                                                             | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | sample<br>no.                | DEPTH |                | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
| FROM                                                        | TO    |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                              | from  | to             |             |           |           |           |         |         |
| 0.00                                                        | 2.74  | OB/5                                                                  | OVERBURDEN - LOST CORE. Very broken marble rubble, mainly coarse grained and white.                                                                                                                                                                                                                                                                                                                                                                                               |                              |       |                |             |           |           |           |         |         |
| 2.74                                                        | 6.65  | 5>                                                                    | MARBLE - mainly coarse grained white and grey with minor banding. Fair to good coring with some jointed sections. 2.80 banding (=bedding?) @ 46 degs. (strong)                                                                                                                                                                                                                                                                                                                    |                              |       |                |             |           |           |           |         |         |
| 6.65                                                        | 15.72 | 4qRA                                                                  | QUARTZITE - grey to dark grey fine grained with banding and fragmental textures. Minor bleaching. Disseminated pyrrhotite throughout (3%) sometimes in clumps that are near massive. 8.93 - 9.35 fragmental texture - some fragments replaced with heavy fine grained disseminated pyrrhotite (7%). Siliceous. 11.75 - 12.45 irregular banding with 5% disseminated fine grained pyrrhotite, and one semi-massive section from 12.20 to 12.21. 7.70 banding (=bedding?) @ 7 degs. | 23744                        | 8.93  | 9.35           | 0.42        | 100       | 0.00      |           | 0.17    | 9.10    |
|                                                             |       |                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 23745                        | 11.75 | 12.45          | 0.70        | 100       | 0.03      |           | 0.10    | 6.30    |
| 15.72                                                       | 17.37 | 5>                                                                    | MARBLE - mainly white coarse grained with minor banding. Good coring. 16.46 banding (=bedding?) @ 51 degs. 17.37 E.O.H. A.Q.T. core split for assay. No water return.                                                                                                                                                                                                                                                                                                             |                              |       |                |             |           |           |           |         |         |

|          |           |
|----------|-----------|
| HOLE ID  | HS 01- 33 |
| PAGE NO. | 2 of 2    |

Mine Geology Services      April 17/1999

| PROPERTY _____ Horn Claims                                   |     | <b>CANADIAN UNITED MINERALS INC.</b><br><b>DIAMOND DRILL HOLE LOG</b> |       | MINE _____                   |    | HOLE ID _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | HS 01- 34 |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------------------------------------------|-----|-----------------------------------------------------------------------|-------|------------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|--|-----------|--|--|--|--|--|-------|-----|----|-------|-----|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| N.T.S. _____ 116 B-7                                         |     |                                                                       |       |                              |    | PAGE NO. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | 1 of 3    |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DATE STARTED _____ Sept 3/2001                               |     | LATITUDE _____ 103.15 N                                               |       | AZ _____ -                   |    | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="6">DIP TESTS</th> </tr> <tr> <th>DEPTH</th> <th>DIP</th> <th>AZ</th> <th>DEPTH</th> <th>DIP</th> <th>AZ</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> |  |           |  | DIP TESTS |  |  |  |  |  | DEPTH | DIP | AZ | DEPTH | DIP | AZ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DIP TESTS                                                    |     |                                                                       |       |                              |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |           |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DEPTH                                                        | DIP | AZ                                                                    | DEPTH | DIP                          | AZ |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |           |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                              |     |                                                                       |       |                              |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |           |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                              |     |                                                                       |       |                              |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |           |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                              |     |                                                                       |       |                              |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |           |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                              |     |                                                                       |       |                              |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |           |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DATE COMPLETED _____ Sept 4/2001                             |     | DEPARTURE _____ 84.50 E                                               |       | DIP _____ -90 degs.          |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |           |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LOGGED BY _____ D.Tenney                                     |     | ELEVATION _____ 1897.0m                                               |       | DEPTH _____ 27.43m (90 feet) |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |           |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DATE _____ Sept 5/2001                                       |     |                                                                       |       |                              |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |           |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PURPOSE _____ Find cause of magnetic anomaly M-2 (Bullseye). |     |                                                                       |       |                              |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |           |  |           |  |  |  |  |  |       |     |    |       |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                              | sample<br>no. | DEPTH |    | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
|---------|-------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|----|-------------|-----------|-----------|-----------|---------|---------|
| FROM    | TO    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               | from  | to |             |           |           |           |         |         |
| 0.00    | 1.15  | OB        | OVERBURDEN - no recovery.                                                                                                                                                                                                                                                                                                                                                                                                                                |               |       |    |             |           |           |           |         |         |
| 1.15    | 4.57  | 5>/LC--   | MARBLE - white and grey coarse and medium grained partly banded.<br>Much lost core especially from 2.13 to 3.05m. Core soft jointed and broken.<br>1.80 banding (=bedding?) @ 41 degs. (typical)<br>4.13 banding (=bedding?) @ 47 degs.<br>5.15 banding (=bedding?) @ 41 degs.                                                                                                                                                                           |               |       |    |             |           |           |           |         |         |
| 4.57    | 14.79 | 5>        | MARBLE - mainly white coarse grained with some banded grey sections.<br>Soft. Good coring.<br>6.00 banding (=bedding?) @ 41 degs.<br>6.90 banding (=bedding?) @ 47 degs.<br>8.52 banding (=bedding?) @ 43 degs.<br>9.42 banding (=bedding?) @ 41 degs.<br>10.38 banding (=bedding?) @ 46 degs.<br>11.33 banding (=bedding?) @ 44 degs. (strong; typical)<br>12.45 banding (=bedding?) @ 40 degs. (strong)<br>14.50 banding (=bedding?) @ 29 degs. (weak) |               |       |    |             |           |           |           |         |         |
| 14.79   | 14.98 | 4         | QUARTZITE - altered fine grained partly banded "pink" quartzite. 1cm clear<br>euhedral crystals quartz (5%) with disseminated fine grained and specks<br>pyrrhotite mainly associated with quartz and contacts. Small irregular<br>patches of calcite. Hard.                                                                                                                                                                                             |               |       |    |             |           |           |           |         |         |

**CANADIAN UNITED MINERALS INC.**  
**DIAMOND DRILL HOLE LOG**

HOLE ID HS 01- 34

PAGE NO. 2 of 3

| FOOTAGE |       | ROCK CODE | DESCRIPTION                                                                                                                                                                                                                                 | sample<br>no. | DEPTH |    | length<br>m | Rec.<br>% | Au<br>g/t | Ag<br>g/t | Cu<br>% | Fe<br>% |
|---------|-------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|----|-------------|-----------|-----------|-----------|---------|---------|
| FROM    | TO    |           |                                                                                                                                                                                                                                             |               | from  | to |             |           |           |           |         |         |
|         |       |           | 14.98 contact with marble @ 40 degs. (sharp and regular).                                                                                                                                                                                   |               |       |    |             |           |           |           |         |         |
| 14.98   | 21.79 | 5>        | MARBLE - as above. Very coarse grained and recrystallized. Soft.<br>Good coring.                                                                                                                                                            |               |       |    |             |           |           |           |         |         |
|         |       |           | 15.75 banding (=bedding?) @ 45 degs. (sharp and even)                                                                                                                                                                                       |               |       |    |             |           |           |           |         |         |
|         |       |           | 17.67 banding (=bedding?) @ 44 degs.                                                                                                                                                                                                        |               |       |    |             |           |           |           |         |         |
|         |       |           | 18.40 banding (=bedding?) @ 41 degs. (rough)                                                                                                                                                                                                |               |       |    |             |           |           |           |         |         |
|         |       |           | 20.32 banding (=bedding?) @ 36 degs. (poor)                                                                                                                                                                                                 |               |       |    |             |           |           |           |         |         |
|         |       |           | 21.20 banding (=bedding?) @ 38 degs. (poor)                                                                                                                                                                                                 |               |       |    |             |           |           |           |         |         |
| 21.79   | 22.13 | 4/5       | QUARTZITE - irregular patches and fragments grey quartzite (80%) in<br>matrix of marble (20%). Specks and fine grained disseminated<br>pyrrhotite (tr) in quartzite. Good coring.                                                           |               |       |    |             |           |           |           |         |         |
|         |       |           | 22.13 contact with marble @ 49 degs.                                                                                                                                                                                                        |               |       |    |             |           |           |           |         |         |
| 22.13   | 26.55 | 5>        | MARBLE - as 14.98 - 21.79. Coarse grained. Good coring.                                                                                                                                                                                     |               |       |    |             |           |           |           |         |         |
|         |       |           | 23.06 banding (=bedding?) @ 48 degs. (typical)                                                                                                                                                                                              |               |       |    |             |           |           |           |         |         |
|         |       |           | 24.68 banding (=bedding?) @ 46 degs. (weak)                                                                                                                                                                                                 |               |       |    |             |           |           |           |         |         |
|         |       |           | 26.21 banding (=bedding?) @ 43 degs.                                                                                                                                                                                                        |               |       |    |             |           |           |           |         |         |
|         |       |           | 26.55 contact with argillite @ 35 degs.                                                                                                                                                                                                     |               |       |    |             |           |           |           |         |         |
| 26.55   | 27.43 | 7q        | BLACK SILICEOUS ARGILLITE - fine grained minor irregular 1mm white<br>quartz veining. Brown/red mica on a few foliations. Possibly weakly<br>graphitic or carbonaceous (no smudge on fingers). Fine but weak banding.<br>Hard. Good coring. |               |       |    |             |           |           |           |         |         |
|         |       |           | 27.18 banding (=bedding?) @ 34 degs.                                                                                                                                                                                                        |               |       |    |             |           |           |           |         |         |

|          |          |
|----------|----------|
| HOLE ID  | HS 01-34 |
| PAGE NO. | 3 of 3   |

Mine Geology Services      April 17/1999

|                |                                                 |
|----------------|-------------------------------------------------|
| <b>PURPOSE</b> | Find source of magnetic anomaly M-2 (Bullseye). |
|----------------|-------------------------------------------------|

# DIAMOND DRILL HOLE LOG

1 of 1

## DIP TESTS

A2

**DEPTH** 10.67m (35 feet)

Mining Geology Services July 22/2001

## **APPENDIX 6**

### **List of diamond drill holes 1999 - 2001**

HORN CLAIMS - TOMBSTONE MOUNTAINS  
LIST OF DIAMOND DRILL HOLES - 1999 TO 2001  
WITH PAD NUMBERS AND RECLAMATION STATUS

APPENDIX 6

| HOLE ID    | COORDINATES |         | ELEV.  | BEARING | DIP   | DEPTH  | DEPTH   | SET UP | GROUND    | MAG     |
|------------|-------------|---------|--------|---------|-------|--------|---------|--------|-----------|---------|
|            | E           | N       | m.     |         |       | ft.    | m.      | #      | CONTOURED | ANOMALY |
| HS 99- 01  | 11.8W       | 105.4N  | 1683.0 | S       | -59   | 22.0   | 6.71    | 1      | yes       | 1       |
| HS 99- 02  | 11.8W       | 105.8N  | 1683.0 | -       | -90   | 12.2   | 3.72    | 1      | yes       | 1       |
| HS 99- 03  | 12.2W       | 106.0N  | 1683.0 | N       | -62   | 83.0   | 25.30   | 1      | yes       | 1       |
| HS 99- 04  | 12.2W       | 108.8N  | 1683.0 | S       | -64   | 51.0   | 15.54   | 1      | yes       | 1       |
| HS 99- 05  | 12.2W       | 109.8N  | 1683.0 | N       | -49   | 15.0   | 4.57    | 1      | yes       | 1       |
| HS 99- 06  | 12.2W       | 109.8N  | 1683.0 | E       | -40   | 30.0   | 9.14    | 1      | yes       | 1       |
| HS 99- 07  | 11.6W       | 108.2N  | 1683.0 | 150     | -55   | 28.0   | 8.53    | 1      | yes       | 1       |
| HS 99- 09  | 24.6W       | 109.8N  | 1680.0 | N       | -78   | 47.0   | 14.33   | 2      | yes       | 1       |
| HS 99- 10  | 23.8W       | 109.4N  | 1680.0 | S       | -79   | 30.0   | 9.14    | 2      | yes       | 1       |
| HS 99- 11  | 1.8W        | 108.2N  | 1684.0 | 064     | -78   | 26.0   | 7.92    | 3      | yes       | 1       |
| TOTAL 1999 |             |         |        |         |       | 344.2  | 104.9   |        |           |         |
| HS 00- 01  | 10.0W       | 128.0N  |        | S       | -50.5 | 144.5  | 44.04   | 4      | yes       | 1       |
| HS 00- 02  | 10.0W       | 128.0N  |        | S       | -62   | 177.5  | 54.10   | 4      | yes       | 1       |
| HS 00- 03  | 10.0W       | 128.0N  |        | S       | -72   | 187.0  | 57.00   | 4      | yes       | 1       |
| HS 00- 04  | 05.0E       | 133.5N  |        | S       | -55   | 142.0  | 43.28   | 5      | no        | 1       |
| HS 00- 05  | 05.0E       | 133.7N  |        | S       | -70   | 172.0  | 52.42   | 5      | no        | 1       |
| HS 00- 06  | 25.0W       | 126.5N  |        | S       | -55   | 158.0  | 48.11   | 6      | yes       | 1       |
| HS 00- 07  | 25.0W       | 126.5N  |        | S       | -75   | 152.0  | 46.33   | 6      | yes       | 1       |
| HS 00- 08  | 75.00E      | 124.7N  | 1702.8 | S       | -60   | 47.0   | 14.33   | 7      | no        | 2       |
| TOTAL 2000 |             |         |        |         |       | 1180.0 | 359.66  |        |           |         |
| HS 01- 09  | 75.0E       | 124.7N  | 1702.8 | S       | -70   | 250.0  | 76.20   | 7      | no        | 2       |
| HS 01- 10  | 75.0E       | 124.7N  | 1702.8 | S       | -55   | 111.0  | 33.83   | 7      | no        | 2       |
| HS 01- 11  | 75.0E       | 24.5N   | 1677.4 | S       | -55   | 92.5   | 28.19   | 8      | yes       | 5       |
| HS 01- 12  | 75.0E       | 24.5N   | 1677.4 | S       | -80   | 47.5   | 14.48   | 8      | yes       | 5       |
| HS 01- 13  | 90.0E       | 38.8N   | 1683.0 | S       | -60   | 62.0   | 18.90   | 9      | yes       | 5       |
| HS 01- 14  | 210.0E      | 10.0N   | 1684.5 | S       | -55   | 141.0  | 42.98   | 10     | yes       | 4       |
| HS 01- 15  | 210.0E      | 10.0N   | 1684.5 | S       | -80   | 146.0  | 44.50   | 10     | yes       | 4       |
| HS 01- 16  | 240.0E      | 20.1N   | 1693.0 | S       | -55   | 107.0  | 32.61   | 11     | yes       | 4       |
| HS 01- 17  | 240.0E      | 20.5N   | 1693.0 | S       | -79   | 140.0  | 42.60   | 11     | yes       | 4       |
| HS 01- 18  | 270.0E      | 40.7N   | 1699.5 | S       | -50   | 146.0  | 44.50   | 12     | yes       | 4       |
| HS 01- 19  | 270.0E      | 41.0N   | 1699.5 | S       | -77   | 142.0  | 43.28   | 12     | yes       | 4       |
| HS 01- 20  | 273.0E      | 62.0N   | 1701.6 | N       | -51.5 | 263.0  | 80.16   | 13     | no        | 3       |
| HS 01- 21  | 210.0E      | 33.5N   | 1688.0 | S       | -74.0 | 196.0  | 59.74   | 14     | yes       | 4       |
| HS 01- 22  | 210.0E      | 33.9N   | 1688.0 | -       | -90.0 | 252.5  | 76.96   | 14     | yes       | 4       |
| HS 01- 23  | 189.2E      | 12.6N   | 1681.7 | S       | -49.0 | 157.4  | 47.98   | 15     | no        | 4       |
| HS 01- 24  | 189.2E      | 12.9N   | 1681.7 | S       | -73.0 | 145.3  | 44.29   | 15     | no        | 4       |
| HS 01- 25  | 189.2E      | 13.45N  | 1681.7 | N       | -81.0 | 170.0  | 51.82   | 15     | no        | 4       |
| HS 01- 26  | 189.2E      | 13.75N  | 1681.7 | N       | -72.0 | 245.0  | 74.68   | 15     | no        | 4       |
| HS 01- 27  | 188.92E     | 13.53N  | 1681.7 | NW      | -66.0 | 152.0  | 46.33   | 15     | no        | 4       |
| HS 01- 28  | 94.25E      | 9.1N    | 1689.5 | -       | -90.0 | 34.0   | 10.36   | 16     | no        | 5       |
| HS 01- 29  | 71.7E       | 10.5N   | 1671.4 | -       | -90.0 | 27.0   | 8.23    | 17     | no        | 5       |
| HS 01- 30  | 78.15E      | 106.7N  | 1697.1 | -       | -90.0 | 45.0   | 13.72   | 18     | no        | 2       |
| HS 01- 31  | 78.15E      | 106.4N  | 1697.1 | S       | -61.0 | 33.0   | 10.06   | 18     | no        | 2       |
| HS 01- 32  | 78.15E      | 107.0N  | 1697.1 | N       | -60.0 | 32.0   | 9.75    | 18     | no        | 2       |
| HS 01- 33  | 77.85E      | 106.7N  | 1697.1 | W       | -60.0 | 57.0   | 17.37   | 18     | no        | 2       |
| HS 01- 34  | 84.5E       | 103.15N | 1697.0 | -       | -90.0 | 90.0   | 27.43   | 19     | no        | 2       |
| HS 01- 35  | 84.5E       | 102.7N  | 1697.0 | S       | -60.0 | 35.0   | 10.67   | 19     | no        | 2       |
| HS 01- 36  | 84.5E       | 103.9N  | 1697.0 | N       | -60.0 | 90.0   | 27.43   | 19     | no        | 2       |
| TOTAL 2001 |             |         |        |         |       | 3409.2 | 1039.05 |        |           |         |

## **APPENDIX 7**

### **Assay Reports**

31/08/2001

Certificate of Analysis

# of pages (not including this page): 2

Canadian United Minerals

WO# 00208

Certified by 

Justin Lemphers (Senior Assayer)

Date Received: 17/08/01

**SAMPLE PREPARATION:**

| Code | # of<br>Samples | Type       | Preparation Description (All wet samples are dried first.)   |
|------|-----------------|------------|--------------------------------------------------------------|
| dc   | 50              | drill core | Crush to -10 mesh; riffle split 200g; pulverize to -100 mesh |

**ANALYTICAL METHODS SUMMARY:**

| Symbol  | Units  | Element | Method (A:assay)<br>(G:geochem) | Fusion/Digestion    | Lower<br>Limit | Upper<br>Limit |
|---------|--------|---------|---------------------------------|---------------------|----------------|----------------|
| Au      | oz/ton | Gold    | A: FA/AAS                       | 1AT FA / aqua regia | 0.001          | 0.400          |
| Au grav | oz/ton | Gold    | A: FA/Gravimetric               | 1AT FA              | 0.010          | #              |
| Cu      | %      | Copper  | A: AAS                          | aqua regia          | 0.001          | #              |
| Fe      | %      | Iron    | A: AAS                          | aqua regia *        | 0.01           | #              |
| Bi      | %      | Bismuth | A: AAS (BC)                     | aqua regia          | 0.001          | #              |

AAS = atomic absorption spectrophotometry

BC = background correction applied

FA = fire assay

\* Aqua regia digestion may be incomplete for some mineral forms of this element.

# No reporting limit. Interferences, solubility limits may limit accuracy of AAS at very high grades.

1000ppb = 1ppm = 1g/mt = 0.0001% = 0.029166oz/ton

31/08/2001

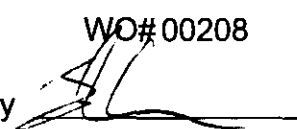
Certificate of Analysis

Page 1

Canadian United Minerals

WO# 00208

Certified by



| Sample # | Au<br>oz/ton | Au grav<br>oz/ton | Au grav<br>oz/ton | Cu<br>% | Bi<br>% | Fe<br>% |
|----------|--------------|-------------------|-------------------|---------|---------|---------|
| dc 23568 | 0.018        |                   |                   | 0.100   |         | 24.59   |
| dc 23569 | >.400        | 0.764             |                   |         |         |         |
| dc 23570 | 0.003        |                   |                   |         |         |         |
| dc 23571 | 0.047        |                   |                   |         |         |         |
| dc 23572 | >.400        | 0.365             |                   |         |         |         |
| dc 23573 | 0.004        |                   |                   |         |         |         |
| dc 23574 | 0.248        |                   |                   |         |         |         |
| dc 23575 | 0.042        |                   |                   |         |         |         |
| dc 23576 | >.400        | 2.628             |                   |         |         |         |
| dc 23577 | 0.022        |                   |                   |         |         |         |
| dc 23691 | 0.012        |                   |                   |         |         |         |
| dc 23692 | 0.006        |                   |                   |         |         |         |
| dc 23693 | 0.005        |                   |                   |         |         |         |
| dc 23694 | >.400        | 2.626             | 1.875             | 0.070   | 0.073   | 19.80   |
| dc 23695 | 0.028        |                   |                   | 0.095   | 0.002   | 9.58    |
| dc 23696 | 0.263        |                   |                   | 0.048   |         | 14.15   |
| dc 23697 | 0.003        |                   |                   |         |         |         |
| dc 23698 | 0.289        |                   |                   | 0.263   |         | 16.26   |
| dc 23699 | 0.002        |                   |                   |         |         |         |
| dc 23701 | 0.004        |                   |                   |         |         |         |
| dc 23702 | 0.008        |                   |                   |         |         |         |
| dc 23703 | 0.001        |                   |                   |         |         |         |
| dc 23704 | 0.04         |                   |                   | 0.169   |         | 16.29   |
| dc 23705 | 0.001        |                   |                   |         |         |         |
| dc 23706 | >.400        | 0.152             | 0.055             |         |         |         |
| dc 23707 | 0.001        |                   |                   |         |         |         |
| dc 23708 | 0.005        |                   |                   |         |         |         |
| dc 23709 | 0.266        |                   |                   | 0.160   |         | 22.97   |
| dc 23710 | 0.006        |                   |                   |         |         |         |
| dc 23711 | 0.116        |                   |                   |         |         | 23.12   |

31/08/2001

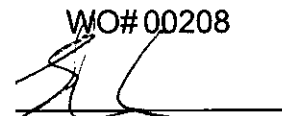
Certificate of Analysis

Page 2

Canadian United Minerals

WO# 00208

Certified by



| Sample # | Au<br>oz/ton | Au grav<br>oz/ton | Au grav<br>oz/ton | Cu<br>% | Bi<br>% | Fe<br>% |
|----------|--------------|-------------------|-------------------|---------|---------|---------|
| dc 23712 | 0.022        |                   |                   | 0.023   |         | 6.15    |
| dc 23713 | 0.007        |                   |                   |         |         |         |
| dc 23714 | 0.001        |                   |                   |         |         |         |
| dc 23715 | 0.002        |                   |                   |         |         |         |
| dc 23716 | 0.023        |                   |                   | 0.050   |         | 14.00   |
| dc 23717 | 0.022        |                   |                   |         |         |         |
| dc 23718 | 0.013        |                   |                   |         |         |         |
| dc 23719 | 0.004        |                   |                   | 0.009   |         | 2.04    |
| dc 23720 | 0.005        |                   |                   | 0.012   |         | 2.63    |
| dc 23721 | 0.003        |                   |                   |         |         |         |
| dc 23722 | <.001        |                   |                   |         |         |         |
| dc 23723 | 0.001        |                   |                   |         |         |         |
| dc 23724 | <.001        |                   |                   |         |         |         |
| dc 23725 | 0.257        |                   |                   | 0.015   |         | 2.84    |
| dc 23726 | 0.029        |                   |                   | 0.020   |         | 1.97    |
| dc 23727 | 0.002        |                   |                   |         |         |         |
| dc 23728 | <.001        |                   |                   |         |         |         |
| dc 23729 | <.001        |                   |                   |         |         |         |
| dc 23730 | <.001        |                   |                   |         |         |         |
| dc 23731 | <.001        |                   |                   |         |         |         |

26/09/2001

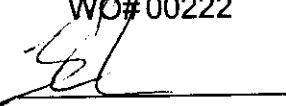
Certificate of Analysis

Page 1

Canadian United Minerals

WO# 00222

Certified by



| Sample # | Au<br>oz/ton | Au grav<br>oz/ton | Cu<br>% | Fe<br>% |
|----------|--------------|-------------------|---------|---------|
| 23578    | 0.001        |                   |         |         |
| 23579    | 0.001        |                   |         |         |
| 23580    | 0.237        |                   |         |         |
| 23581    | 0.065        |                   |         |         |
| 23582    | >.400        | 4.915             |         |         |
| 23583    | 0.089        |                   |         |         |
| 23584    | 0.022        |                   |         |         |
| 23585    | 0.035        |                   |         |         |
| 23586    | >.400        | 0.802             |         |         |
| 23587    | 0.087        |                   |         |         |
| 23588    | 0.094        |                   |         |         |
| 23589    | 0.004        |                   |         |         |
| 23732    | 0.006        |                   |         |         |
| 23733    | 0.001        |                   |         |         |
| 23734    | 0.001        |                   |         |         |
| 23735    | <.001        |                   |         |         |
| 23736    | <.001        |                   |         |         |
| 23737    | <.001        |                   | 0.141   | 6.7     |
| 23738    | 0.001        |                   | 0.173   | 6.2     |
| 23739    | <.001        |                   |         |         |
| 23740    | <.001        |                   |         |         |
| 23741    | <.001        |                   |         |         |
| 23742    | <.001        |                   |         |         |
| 23743    | <.001        |                   |         |         |
| 23744    | <.001        |                   | 0.168   | 9.1     |
| 23745    | 0.001        |                   | 0.102   | 6.3     |
| 23746    | <.001        |                   |         |         |
| 23747    | 0.001        |                   |         |         |

19/10/2001

Certificate of Analysis

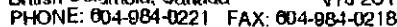
Page 1

Canadian United, Dave Tenney

WO#00246

Certified by

| Sample # | Au<br>oz/ton | Cu<br>% | Fe<br>% |
|----------|--------------|---------|---------|
| 23502    | 0.001        |         |         |
| 23564    | 0.169        | 0.109   |         |
| 23565    | 0.002        |         |         |
| 23566    | 0.002        |         |         |
| 23567    | 0.002        |         |         |
| 23675    | 0.025        | 0.100   | 4.29    |
| 23676    | 0.003        |         |         |
| 23677    | 0.002        |         |         |
| 23678    | 0.002        | 0.047   |         |
| 23679    | <.001        |         |         |
| 23680    | 0.007        | 0.022   | 1.03    |
| 23681    | <.001        |         |         |
| 23682    | 0.067        | 0.057   | 1.84    |



Page Number : 1-A  
Total Pages : 1  
Certificate Date: 23-JUL-01  
Invoice No. : 10120050  
P.O. Number :  
Account : PHP

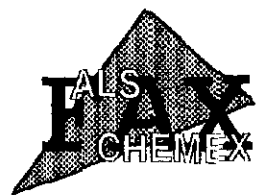
\* PLEASE NOTE

## CERTIFICATE OF ANALYSIS

**A0120050**

[illegible]

**CERTIFICATION.**



# ALS Chemex

Aurora Laboratory Services Ltd.  
Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: CANADIAN UNITED MINERALS INC.

BOX 1260  
DAWSON CITY, YT  
Y0B 1G0

Project:

Comments: ATTN: DAVE TENNEY CC: DAVE TENNEY

Page Number : 1-B  
Total Pages : 1  
Certificate Date: 26-JUL-01  
Invoice No. : 10120461  
P.O. Number :  
Account : PRP

## CERTIFICATE OF ANALYSIS

A0120461

| SAMPLE | PREP<br>CODE | Mg<br>% | Mn<br>ppm | Mo<br>ppm | Na<br>% | Ni<br>ppm | P<br>ppm | Pb<br>ppm | S<br>% | Sb<br>ppm | Sc<br>ppm | Sr<br>ppm | Ti<br>% | Tl<br>ppm | U<br>ppm | V<br>ppm | W<br>ppm | Zn<br>ppm |
|--------|--------------|---------|-----------|-----------|---------|-----------|----------|-----------|--------|-----------|-----------|-----------|---------|-----------|----------|----------|----------|-----------|
| 23553  | 94139402     | ----    | ----      | ----      | ----    | ----      | ----     | ----      | ----   | ----      | ----      | ----      | ----    | ----      | ----     | ----     | ----     | ----      |
| 23554  | 94139402     | ----    | ----      | ----      | ----    | ----      | ----     | ----      | ----   | ----      | ----      | ----      | ----    | ----      | ----     | ----     | ----     | ----      |
| 23555  | 94139402     | ----    | ----      | ----      | ----    | ----      | ----     | ----      | ----   | ----      | ----      | ----      | ----    | ----      | ----     | ----     | ----     | ----      |
| 23556  | 94139402     | ----    | ----      | ----      | ----    | ----      | ----     | ----      | ----   | ----      | ----      | ----      | ----    | ----      | ----     | ----     | ----     | ----      |
| 23557  | 94139402     | ----    | ----      | ----      | ----    | ----      | ----     | ----      | ----   | ----      | ----      | ----      | ----    | ----      | ----     | ----     | ----     | ----      |
| 23558  | 94139402     | ----    | ----      | ----      | ----    | ----      | ----     | ----      | ----   | ----      | ----      | ----      | ----    | ----      | ----     | ----     | ----     | ----      |
| 23559  | 94139402     | ----    | ----      | ----      | ----    | ----      | ----     | ----      | ----   | ----      | ----      | ----      | ----    | ----      | ----     | ----     | ----     | ----      |
| 23560  | 94139402     | ----    | ----      | ----      | ----    | ----      | ----     | ----      | ----   | ----      | ----      | ----      | ----    | ----      | ----     | ----     | ----     | ----      |
| 23561  | 94139402     | ----    | ----      | ----      | ----    | ----      | ----     | ----      | ----   | ----      | ----      | ----      | ----    | ----      | ----     | ----     | ----     | ----      |
| 23562  | 94139402     | ----    | ----      | ----      | ----    | ----      | ----     | ----      | ----   | ----      | ----      | ----      | ----    | ----      | ----     | ----     | ----     | ----      |
| 23563  | 94139402     | 0.16    | 290       | < 1       | 0.08    | 3         | 1820     | 18        | 0.08   | < 2       | 1         | 80        | 0.16    | 30        | < 10     | 82       | < 10     | 58        |

CERTIFICATION:



# ALS Chemex

Aurora Laboratory Services Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 Brooksbank Ave., North Vancouver

British Columbia, Canada V7J 2C1

PHONE: 604-984-0221 FAX: 604-984-0218

To: CANADIAN UNITED MINERALS INC.

BOX 1260

DAWSON CITY, YT

Y0B 1G0

Page Number : 1-A

Total Pages : 1

Certificate Date: 28-JUL-01

Invoice No. : 10120461

P.O. Number :

Account : PRP

Project :

Comments: ATTN: DAVE TENNEY CC: DAVE TENNEY

## CERTIFICATE OF ANALYSIS

A0120461

| SAMPLE | PREP CODE | Weight Kg | Ag FA+AA | Ag ppm | Al % | As ppm | B ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | K %  | La ppm |
|--------|-----------|-----------|----------|--------|------|--------|-------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|--------|------|--------|
| 21553  | 94139402  | 1.28      | 420      | ----   | ---- | ----   | ----  | ----   | ----   | ----   | ---- | ----   | ----   | ----   | ----   | ---- | ----   | ----   | ---- | ----   |
| 21554  | 94139402  | 1.92      | 600      | ----   | ---- | ----   | ----  | ----   | ----   | ----   | ---- | ----   | ----   | ----   | ----   | ---- | ----   | ----   | ---- | ----   |
| 21555  | 94139402  | 2.20      | 7540     | ----   | ---- | ----   | ----  | ----   | ----   | ----   | ---- | ----   | ----   | ----   | ----   | ---- | ----   | ----   | ---- | ----   |
| 21556  | 94139402  | 1.66      | 895      | ----   | ---- | ----   | ----  | ----   | ----   | ----   | ---- | ----   | ----   | ----   | ----   | ---- | ----   | ----   | ---- | ----   |
| 21557  | 94139402  | 1.10      | 65       | ----   | ---- | ----   | ----  | ----   | ----   | ----   | ---- | ----   | ----   | ----   | ----   | ---- | ----   | ----   | ---- | ----   |
| 21558  | 94139402  | 1.50      | 50       | ----   | ---- | ----   | ----  | ----   | ----   | ----   | ---- | ----   | ----   | ----   | ----   | ---- | ----   | ----   | ---- | ----   |
| 21559  | 94139402  | 0.72      | 20       | ----   | ---- | ----   | ----  | ----   | ----   | ----   | ---- | ----   | ----   | ----   | ----   | ---- | ----   | ----   | ---- | ----   |
| 21560  | 94139402  | 0.66      | 40       | ----   | ---- | ----   | ----  | ----   | ----   | ----   | ---- | ----   | ----   | ----   | ----   | ---- | ----   | ----   | ---- | ----   |
| 21561  | 94139402  | 0.58      | 265      | ----   | ---- | ----   | ----  | ----   | ----   | ----   | ---- | ----   | ----   | ----   | ----   | ---- | ----   | ----   | ---- | ----   |
| 21562  | 94139402  | 0.66      | 715      | ----   | ---- | ----   | ----  | ----   | ----   | ----   | ---- | ----   | ----   | ----   | ----   | ---- | ----   | ----   | ---- | ----   |
| 21563  | 94139402  | 0.96      | < 5      | < 0.2  | 0.29 | 54     | < 10  | 80     | 1.5    | 6      | 1.02 | < 0.5  | 2      | 24     | 26     | 2.70 | < 10   | < 1    | 0.16 | 150    |

CERTIFICATION:

## **APPENDIX 8**

### **List of intersections 1999 – 2001**

**APPENDIX 8**

| CANADIAN UNITED MINERALS INC.<br>HORN CLAIMS - TOMBSTONE MOUNTAINS<br>AVERAGE CALCULATED GRADES<br>DIAMOND DRILL INTERSECTIONS |       |       |        |      |        |       |       |      |      |
|--------------------------------------------------------------------------------------------------------------------------------|-------|-------|--------|------|--------|-------|-------|------|------|
| HOLE #                                                                                                                         | FROM  | TO    | LENGTH | REC. | Au     | Au    | Ag    | Cu   | Fe   |
|                                                                                                                                | m     | m     | m      | %    | oz/ton | g/t   | g/t   | %    | %    |
| HS 99-02                                                                                                                       | 9.14  | 12.49 | 3.35   | 80   | 1.64   | 56.1  | 16.2  | 0.32 | 30.0 |
| HS 99-03                                                                                                                       | 0.00  | 11.88 | 11.88  | 61   | 0.56   | 19.3  | 11.8  | 0.19 | 41.1 |
| HS 99-04                                                                                                                       | 0.00  | 11.03 | 11.03  | 63   | 0.63   | 21.6  | 15.8  | 0.19 | 31.7 |
| HS 99-06                                                                                                                       | 0.00  | 0.98  | 0.98   | 28   | 1.27   | 43.8  | 58.7  | 1.52 | 34.8 |
| HS 99-07                                                                                                                       | 0.00  | 0.70  | 0.70   | 57   | 1.26   | 43.3  | 87.1  | 1.62 | 55.6 |
| HS 99-11                                                                                                                       | 2.62  | 7.92  | 5.30   | 52   | 5.28   | 180.8 | 60.3  | 0.90 | 32.7 |
| HS 00-01                                                                                                                       | 28.90 | 31.15 | 2.25   | 100  | 1.44   | 49.2  | 22.3  | 0.44 | 52.6 |
| HS 00-02                                                                                                                       | 31.08 | 38.03 | 6.95   | 100  | 1.49   | 51.0  | 27.0  | 0.63 | 48.3 |
| HS 00-03                                                                                                                       | 45.00 | 46.44 | 1.44   | 100  | 4.26   | 146.1 | 27.15 | 0.67 | 32.3 |
| HS00-04                                                                                                                        | 33.89 | 34.51 | 0.62   | 100  | 3.80   | 130.2 | 35.6  | 0.10 | 28.1 |
| HS01-15                                                                                                                        | 31.27 | 35.26 | 3.99   | 100  | 0.25   | 8.7   | -     | 0.21 | 26.7 |
| HS01-22                                                                                                                        | 59.52 | 62.99 | 3.47   | 100  | 0.54   | 18.5  | -     | -    | -    |
| HS01-23                                                                                                                        | 32.00 | 32.20 | 0.20   | 100  | 0.15   | 5.2   | -     | -    | -    |
| HS01-26                                                                                                                        | 60.33 | 60.96 | 0.63   | 100  | 0.26   | 8.8   | -     | -    | -    |

| CHIP SAMPLING FROM TRENCHES |        |      |       |      |      |        |          |         |    |
|-----------------------------|--------|------|-------|------|------|--------|----------|---------|----|
| TRENCH SAMPLE               | LENGTH | Au   | Au    | Ag   | Cu   | Fe     | LOCATION | SAMPLER |    |
| LINE                        | m      | oz/t | g/t   | g/t  | %    | %      |          |         |    |
| 99-01 A                     | 2.44   | 1.18 | 40.3  | -    | -    | -      | 107N/14W | Ryan    | 98 |
| 99-01 B                     | 3.66   | 0.50 | 17.3  | -    | -    | -      | 106N/13W | Ryan    | 98 |
| 99-01 C                     | 1.22   | 3.49 | 119.7 | -    | -    | -      | 106N/12W | Ryan    | 98 |
| 99-01 D                     | 5.94   | 1.72 | 58.9  | 17.5 | 0.49 | 45.6   | 106N/12W | Tenney  | 99 |
| 99-05 E                     | 4.45   | 2.49 | 85.4  | 59.4 | 1.11 | -      | 110N/2W  | Tenney  | 99 |
| 00-01 F                     | 3.34   | 3.33 | 114.1 | 43.5 | 0.82 | 27.300 | 108N/00W | Tenney  | 00 |

| CIRQUE TALUS CONE FLOAT SAMPLES |          |     |       |        |                                              |
|---------------------------------|----------|-----|-------|--------|----------------------------------------------|
| SAMPLE NUMBER                   | LOCATION |     | Au    | Au     | COMMENTS                                     |
|                                 | N        | E   | oz/t  | g/t    |                                              |
| 23569                           | 245      | 412 | 0.764 | 26.19  | Rusty gossan 12*20*10cm.                     |
| 23572                           | 280      | 425 | 0.365 | 12.51  | Rusty leached gossan (possible bedrock?).    |
| 23574                           | 270      | 422 | 0.248 | 8.50   | Rusty gossan in Cirque gully.                |
| 23576                           | 87       | 400 | 2.628 | 90.09  | Rusty gossan, vuggy with minor quartz.       |
| 23582                           | 54       | 400 | 4.915 | 168.49 | Rusty gossan float. Duplicate left in field. |
| 23583                           | 28       | 400 | 0.089 | 3.05   | Rusty gossan.                                |
| 23586                           | 296      | 432 | 0.802 | 27.49  | Rusty gossan ,1 kg piece. Flagged in field.  |
| 23587                           | 300      | 433 | 0.067 | 2.98   | Rusty outcrop west side Cirque gully.        |
| 23588                           | 120      | 384 | 0.094 | 3.22   | Rusty gossan from Cirque gully.              |

## **APPENDIX 9**

### **Water sampling report – Laberge Environmental Services**

**WATER CHARACTERIZATION - HORN CLAIMS  
RESULTS FOR THE JULY 4, 2001 SURVEY**

Prepared for:

**CANADIAN UNITED MINERALS**

Prepared by:

**LABERGE ENVIRONMENTAL SERVICES  
AUGUST, 2001**

## **TABLE OF CONTENTS**

|     |                                             |   |
|-----|---------------------------------------------|---|
| 1.0 | SCOPE OF WORK .....                         | 1 |
| 2.0 | RESULTS .....                               | 1 |
| 2.1 | General Observations .....                  | 1 |
| 2.2 | Methods .....                               | 1 |
| 2.3 | Water and Flow Data .....                   | 2 |
| 3.0 | DISCUSSION .....                            | 3 |
| 3.1 | Flow .....                                  | 3 |
| 3.2 | Physical Tests .....                        | 3 |
| 3.3 | Dissolved Anions .....                      | 3 |
| 3.5 | Metals .....                                | 3 |
| 3.6 | Comparisons with Previous Years' Data ..... | 4 |

## **LIST OF APPENDICES**

|            |                                         |
|------------|-----------------------------------------|
| APPENDIX A | Chemical Analysis Report, 2001          |
| APPENDIX B | Water Quality Data, 2001, 2000 and 1999 |

## **1.0 SCOPE OF WORK**

Bonnie Burns and Stuart Withers of Laberge Environmental Services (LES) conducted a baseline water survey on July 4, 2001 accessing the site by helicopter. The purpose of this exercise was to collect water samples that would represent current background water quality conditions in local streams. This is the third summer of baseline water sample collection. A total of six water samples were collected. Estimates and measurements of stream discharge were made and a series of photographs were taken.

## **2.0 RESULTS**

The original ASL lab report is attached.

### **2.1 General Observations**

At the time of visit, snow cover was absent from the Balckstone River valley, and most of the vegetation was nearing full bloom. Snow cover was still prevalent at higher elevations and in Cirque Creek. No flowing water could be located under the snow in Cirque Creek directly south of the camp. A sample of Cirque Creek was collected downstream of the camp, just upstream of the confluence with C-3. This site shall now become C-2.

### **2.2 Methods**

Water quality samples were collected in clean new bottles after rinsing three times with sample waters. Samples to be analyzed for dissolved metals were filtered and preserved in Dawson later that day. Other samples were preserved accordingly, kept cold, and shipped to ASL in Vancouver, B.C. by air freight from Dawson City on July 5, 2001.

In situ measurements of water quality were made using calibrated instruments - pH with an Accumet portable pH meter, conductivity and temperature with an Orion model 126 conductivity meter, and dissolved oxygen with a YSI meter model 550.

Estimates of stream discharge were made using either a Price type velocity meter and velocity - cross sectional area method, or simply with visual estimates.

The site locations are outlined in the table below:

| SITE # | SAMPLE DESCRIPTION                                                                             | LOCATION<br>07W UTM |
|--------|------------------------------------------------------------------------------------------------|---------------------|
| C-1    | Camp Creek, a very low flow intermittent stream located immediately below the camp building    | 0614444<br>7148007  |
| C-2    | Cirque Creek just upstream of the confluence with C-3                                          | 0613764<br>7148229  |
| C-3    | Unnamed tributary flowing from the east flank of Horn Mt                                       | 0613764<br>7148229  |
| C-4    | Rusty Creek, second left bank tributary flowing from Horn Mt                                   | 0613780<br>7148667  |
| C-5    | On the south branch of the Blackstone headwaters downstream of the confluence with Rusty Creek | 0613979<br>7148931  |
| C-6    | On the south branch of the Blackstone River just upstream of a small lake.                     | 0613715<br>7151199  |

## 2.3 Water and Flow Data

The results of in situ measurements for the July 2001 samples follow:

| Site #               | C-1       | C-2      | C-3      | C-4   | C-5   | C-6   |
|----------------------|-----------|----------|----------|-------|-------|-------|
| Flow, cms            | 0.008 (e) | 0.20 (e) | 0.15 (e) | 0.043 | 0.433 | 1.152 |
| Temp °C              | 4.9       | 0.9      | 0.7      | 3.6   | 3.2   | 4.1   |
| pH                   | 7.4       | 7.32     | 7.5      | 7.4   | 8.1   | 7.2   |
| Cond uS/cm           | 48.6      | 25.0     | 29.0     | 24.1  | 35.1  | 11.2  |
| TDS, mg/L            | 22        | 11       | 12       | 10    | 16    | 5     |
| D.O., mg/L           | ---       | 13.3     | 13.9     | 12.4  | 13.0  | 12.4  |
| (e) = estimated flow |           |          |          |       |       |       |

The original lab results are attached along with the chain of custody form.

### **3.0 DISCUSSION**

#### **3.1 Flow**

Flow in all creeks was again variable. Snow covered most of the stream bed of Cirque creek until its confluence with the first tributary. Below that point, where the main stem can be called the Blackstone River, flow was mainly confined, but some braided open channels were present. Flow was swift with mainly glides and riffles with few pools.

The small watersheds in the Horn Claims are in the High Alpine. There is only an "open water" season of about three months for the drainage above the valley floor.

#### **3.2 Physical Tests**

All surface waters were near neutral or slightly alkaline. Conductivity (Cond) and, total dissolved solids (TDS) were very low indicating that the majority of flow consists of snowmelt and/or rainwater. With the exception of Camp Creek (C-1) which was moderately soft, all sampled waters were very soft. All waters were very clear and no suspended solids were detected.

#### **3.3 Dissolved Anions**

Anions were very low. Acidity was barely detected at all of the sites, and alkalinity ranged from 3 to 19 mg/L as  $\text{CaCO}_3$ ). Sulphate was low throughout ranging from 2 to 7 mg/L.

#### **3.4 Nutrients**

Nutrient levels were low. Nitrogen was present in the form of nitrate, nitrite and/or ammonia at the sites. Ortho phosphate levels were below the method detection limit of 0.001 mg/L.

#### **3.5 Metals**

A total of 11 metals were below the method detection limit in all samples (beryllium, boron, chromium, manganese, mercury, molybdenum, potassium, sodium, thallium, titanium and vanadium). Waters sampled from C-1 had the highest concentrations of the majority of the metals that were detected. This intermittent stream emerges and disappears through the talus. The higher levels of metals in the water at C-1 reflect the fact that the source is shallow

groundwater which allows for greater contact with the mineralized soil.

The concentrations of metals in the surface waters were very low where detected. All sites had detectable levels of aluminum, arsenic and copper. Rusty Creek (C-4) had detectable levels of cadmium and zinc.

The results were compared to the Canadian Council of the Ministers of the Environment (CCME, 1999) guidelines for the protection of aquatic life. The applicable guidelines for the following metals were met in all of the samples; aluminum, arsenic, chromium, copper, iron, lead, mercury, molybdenum, nickel, selenium, silver and thallium. The guideline for cadmium was exceeded at C-1 and C-4. The new guideline for cadmium is more stringent than the 1987 guideline, with a recommended level of 0.000017 mg/L. Even the lowest method detection limit of 0.00005 mg/L is greater than the guideline, therefore it is not known if C-2, C-3, C-5 and C-6 met the recommended guideline or not. The recommended guideline of 0.030 mg/L for zinc was slightly exceeded at C-1 where a concentration of 0.051 mg/L was documented.

### **3.6 Comparisons with Previous Years' Data**

Water quality samples have been collected from streams in the Horn Claims area on four different occasions; June 24, 1999, September 15, 1999, July 14, 2000, and July 4, 2001. These data have been compiled and are presented in Appendix B.

The baseline water quality has remained fairly consistent with only notable changes occurring seasonally. In mid September, 1999, water samples were collected from two of the regular sample sites. By this time of the year in the alpine region, the majority of the flow in the creeks was base flow. As there are no storage basins until the lake downstream of C-6, ground water contributes to most of the flow in these streams. Hence concentrations of ions (sulphate, calcium, magnesium) were higher than that recorded during the summer months when snow melt represented the primary discharge in the creeks.

**APPENDIX A**

**CHEMICAL ANALYSIS REPORT, 2001**



# CHEMICAL ANALYSIS REPORT

---

**Date:** August 1, 2001

**ALS File No.** N2984

**Report On:** Horn Claims, C.U.M.  
Water Analysis

**Report To:** **Laberge Environmental Services**  
PO Box 5111  
Whitehorse, YT  
T1A 4S3

**Attention:** **Ms. Bonnie Burns**

**Received:** July 9, 2001

---

**ALS ENVIRONMENTAL**

per:

Joanne Patrick, B.Sc. - Project Chemist  
Can Dang, B.Sc. - Project Chemist

**REMARKS**



For some of the submitted water samples, the measured concentration of specific dissolved parameters is greater than the corresponding total parameters concentration. The explanation for these findings is one or a combination of the following:

- laboratory method variability;
- field sampling method variability;
- bias introduced during general handling, storage, transportation and/or analysis of the sample;
- field sample grab bias - where separate grab samples are processed to produce total and dissolved samples;
- field sample split bias - where total and dissolved parameters samples are produced from the same grab sample.

For further clarification on any of the above information, please contact your ALS representative.

File No. N2984

**RESULTS OF ANALYSIS - Water**



| Sample ID   | C-1      | C-2      | C-3      | C-4      | C-5      |
|-------------|----------|----------|----------|----------|----------|
| Sample Date | 01 07 04 | 01 07 04 | 01 07 04 | 01 07 04 | 01 07 04 |
| ALS ID      | 1        | 2        | 3        | 4        | 5        |

**Physical Tests**

|                            |      |     |      |     |      |
|----------------------------|------|-----|------|-----|------|
| Total Dissolved Solids     | 26   | 12  | 13   | 13  | 22   |
| Hardness CaCO <sub>3</sub> | 24.0 | 9.3 | 11.8 | 8.7 | 13.2 |
| Total Suspended Solids     | <3   | <3  | <3   | <3  | <3   |

**Dissolved Anions**

|                          |                   |    |   |    |   |   |
|--------------------------|-------------------|----|---|----|---|---|
| Acidity (to pH 8.3)      | CaCO <sub>3</sub> | 2  | 2 | 1  | 2 | 1 |
| Alkalinity-Total         | CaCO <sub>3</sub> | 19 | 5 | 10 | 3 | 7 |
| Sulphate SO <sub>4</sub> |                   | 4  | 4 | 2  | 6 | 7 |

**Nutrients**

|                           |   |        |        |        |        |        |
|---------------------------|---|--------|--------|--------|--------|--------|
| Ammonia Nitrogen          | N | 0.018  | <0.005 | <0.005 | 0.173  | 0.04   |
| Nitrate Nitrogen          | N | 0.052  | 0.043  | 0.047  | 0.048  | 0.054  |
| Nitrite Nitrogen          | N | 0.001  | <0.001 | 0.001  | 0.001  | 0.001  |
| Dissolved ortho-Phosphate | P | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |

Remarks regarding the analyses appear at the beginning of this report.  
 Results are expressed as milligrams per litre except where noted.  
 < = Less than the detection limit indicated.

**RESULTS OF ANALYSIS - Water**

| Sample ID           |      | C-1      | C-2      | C-3      | C-4      | C-5      |
|---------------------|------|----------|----------|----------|----------|----------|
| Sample Date         |      | 01 07 04 | 01 07 04 | 01 07 04 | 01 07 04 | 01 07 04 |
| ALS ID              |      | 1        | 2        | 3        | 4        | 5        |
| <hr/>               |      |          |          |          |          |          |
| <b>Total Metals</b> |      |          |          |          |          |          |
| Aluminum            | T-Al | 0.005    | 0.044    | 0.026    | 0.046    | 0.043    |
| Antimony            | T-Sb | 0.0001   | <0.0001  | <0.0001  | <0.0001  | <0.0001  |
| Arsenic             | T-As | 0.0009   | 0.0002   | 0.0005   | 0.0003   | 0.0001   |
| Barium              | T-Ba | 0.01     | <0.01    | <0.01    | <0.01    | <0.01    |
| Beryllium           | T-Be | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Boron               | T-B  | <0.1     | <0.1     | <0.1     | <0.1     | <0.1     |
| Cadmium             | T-Cd | 0.00106  | <0.00005 | <0.00005 | 0.00007  | <0.00005 |
| Calcium             | T-Ca | 8.54     | 3.35     | 4.49     | 3.18     | 4.67     |
| Chromium            | T-Cr | <0.0005  | <0.0005  | <0.0005  | <0.0005  | <0.0005  |
| Cobalt              | T-Co | <0.0001  | <0.0001  | <0.0001  | <0.0001  | 0.0001   |
| Copper              | T-Cu | 0.0012   | 0.0009   | 0.0004   | 0.0007   | 0.0006   |
| Iron                | T-Fe | <0.03    | 0.05     | <0.03    | <0.03    | <0.03    |
| Lead                | T-Pb | <0.00005 | 0.00013  | 0.00013  | 0.00009  | 0.00006  |
| Magnesium           | T-Mg | 0.3      | 0.2      | 0.1      | 0.2      | 0.3      |
| Manganese           | T-Mn | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   |
| Mercury             | T-Hg | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 |
| Molybdenum          | T-Mo | <0.03    | <0.03    | <0.03    | <0.03    | <0.03    |
| Nickel              | T-Ni | 0.002    | <0.001   | <0.001   | 0.002    | <0.001   |
| Potassium           | T-K  | <2       | <2       | <2       | <2       | <2       |
| Selenium            | T-Se | 0.002    | <0.001   | <0.001   | <0.001   | <0.001   |
| Silver              | T-Ag | 0.00001  | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Sodium              | T-Na | <2       | <2       | <2       | <2       | <2       |
| Thallium            | T-Tl | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Titanium            | T-Ti | <0.01    | <0.01    | <0.01    | <0.01    | <0.01    |
| Uranium             | T-U  | <0.0001  | 0.0003   | 0.0004   | 0.0002   | 0.0002   |
| Vanadium            | T-V  | <0.03    | <0.03    | <0.03    | <0.03    | <0.03    |
| Zinc                | T-Zn | 0.051    | <0.005   | <0.005   | 0.007    | <0.005   |

Remarks regarding the analyses appear at the beginning of this report.  
 Results are expressed as milligrams per litre except where noted.  
 < = Less than the detection limit indicated.

**RESULTS OF ANALYSIS - Water**

| Sample ID               |      | C-1      | C-2      | C-3      | C-4      | C-5      |
|-------------------------|------|----------|----------|----------|----------|----------|
| Sample Date             |      | 01 07 04 | 01 07 04 | 01 07 04 | 01 07 04 | 01 07 04 |
| ALS ID                  |      | 1        | 2        | 3        | 4        | 5        |
| <b>Dissolved Metals</b> |      |          |          |          |          |          |
| Aluminum                | D-Al | <0.005   | 0.008    | 0.006    | 0.007    | 0.044    |
| Antimony                | D-Sb | 0.0001   | <0.0001  | <0.0001  | <0.0001  | <0.0001  |
| Arsenic                 | D-As | 0.0009   | <0.0001  | 0.0004   | 0.0001   | <0.0001  |
| Barium                  | D-Ba | 0.01     | <0.01    | <0.01    | <0.01    | <0.01    |
| Beryllium               | D-Be | <0.001   | <0.001   | <0.001   | <0.001   | <0.001   |
| Boron                   | D-B  | <0.1     | <0.1     | <0.1     | <0.1     | <0.1     |
| Cadmium                 | D-Cd | 0.00110  | <0.00005 | <0.00005 | 0.00006  | <0.00005 |
| Calcium                 | D-Ca | 9.04     | 3.37     | 4.52     | 3.14     | 4.72     |
| Chromium                | D-Cr | <0.0005  | <0.0005  | <0.0005  | <0.0005  | <0.0005  |
| Cobalt                  | D-Co | <0.0001  | <0.0001  | <0.0001  | <0.0001  | <0.0001  |
| Copper                  | D-Cu | 0.0011   | 0.0004   | 0.0003   | 0.0005   | 0.0005   |
| Iron                    | D-Fe | <0.03    | <0.03    | <0.03    | <0.03    | <0.03    |
| Lead                    | D-Pb | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Magnesium               | D-Mg | 0.3      | 0.2      | 0.1      | 0.2      | 0.3      |
| Manganese               | D-Mn | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   |
| Mercury                 | D-Hg | <0.00002 | <0.00002 | <0.00002 | <0.00002 | <0.00002 |
| Molybdenum              | D-Mo | <0.03    | <0.03    | <0.03    | <0.03    | <0.03    |
| Nickel                  | D-Ni | 0.002    | <0.001   | <0.001   | 0.002    | <0.001   |
| Potassium               | D-K  | <2       | <2       | <2       | <2       | <2       |
| Selenium                | D-Se | 0.002    | <0.001   | <0.001   | <0.001   | <0.001   |
| Silver                  | D-Ag | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| Sodium                  | D-Na | <2       | <2       | <2       | <2       | <2       |
| Thallium                | D-Tl | <0.00005 | <0.00005 | <0.00005 | <0.00005 | <0.00005 |
| Titanium                | D-Ti | <0.01    | <0.01    | <0.01    | <0.01    | <0.01    |
| Uranium                 | D-U  | <0.0001  | 0.0002   | 0.0003   | 0.0001   | 0.0002   |
| Vanadium                | D-V  | <0.03    | <0.03    | <0.03    | <0.03    | <0.03    |
| Zinc                    | D-Zn | 0.055    | <0.005   | <0.005   | 0.006    | <0.005   |

Remarks regarding the analyses appear at the beginning of this report.  
 Results are expressed as milligrams per litre except where noted.  
 < = Less than the detection limit indicated.

File No. N2984

**RESULTS OF ANALYSIS - Water**



Sample ID C-6

Sample Date 01 07 04  
ALS ID 6

---

**Physical Tests**

|                        |                   |      |
|------------------------|-------------------|------|
| Total Dissolved Solids |                   | 16   |
| Hardness               | CaCO <sub>3</sub> | 12.0 |
| Total Suspended Solids |                   | <3   |

**Dissolved Anions**

|                     |                   |   |
|---------------------|-------------------|---|
| Acidity (to pH 8.3) | CaCO <sub>3</sub> | 1 |
| Alkalinity-Total    | CaCO <sub>3</sub> | 6 |
| Sulphate            | SO <sub>4</sub>   | 4 |

**Nutrients**

|                           |   |        |
|---------------------------|---|--------|
| Ammonia Nitrogen          | N | 0.089  |
| Nitrate Nitrogen          | N | 0.071  |
| Nitrite Nitrogen          | N | 0.002  |
| Dissolved ortho-Phosphate | P | <0.001 |

---

Remarks regarding the analyses appear at the beginning of this report.  
Results are expressed as milligrams per litre except where noted.  
< = Less than the detection limit indicated.

File No. N2984

**RESULTS OF ANALYSIS - Water**



Sample ID C-6

Sample Date 01 07 04  
ALS ID 6

---

**Total Metals**

|            |      |          |
|------------|------|----------|
| Aluminum   | T-Al | 0.021    |
| Antimony   | T-Sb | <0.0001  |
| Arsenic    | T-As | 0.0004   |
| Barium     | T-Ba | <0.01    |
| Beryllium  | T-Be | <0.001   |
| Boron      | T-B  | <0.1     |
| Cadmium    | T-Cd | <0.00005 |
| Calcium    | T-Ca | 4.18     |
| Chromium   | T-Cr | <0.0005  |
| Cobalt     | T-Co | <0.0001  |
| Copper     | T-Cu | 0.0005   |
| Iron       | T-Fe | <0.03    |
| Lead       | T-Pb | <0.00005 |
| Magnesium  | T-Mg | 0.3      |
| Manganese  | T-Mn | <0.005   |
| Mercury    | T-Hg | <0.00002 |
| Molybdenum | T-Mo | <0.03    |
| Nickel     | T-Ni | <0.001   |
| Potassium  | T-K  | <2       |
| Selenium   | T-Se | <0.001   |
| Silver     | T-Ag | <0.00001 |
| Sodium     | T-Na | <2       |
| Thallium   | T-Tl | <0.00005 |
| Titanium   | T-Ti | <0.01    |
| Uranium    | T-U  | 0.0007   |
| Vanadium   | T-V  | <0.03    |
| Zinc       | T-Zn | <0.005   |

---

Remarks regarding the analyses appear at the beginning of this report.  
Results are expressed as milligrams per litre except where noted.  
< = Less than the detection limit indicated.

File No. N2984

**RESULTS OF ANALYSIS - Water**



Sample ID C-6

Sample Date 01 07 04  
ALS ID 6

---

**Dissolved Metals**

|            |      |          |
|------------|------|----------|
| Aluminum   | D-Al | 0.012    |
| Antimony   | D-Sb | <0.0001  |
| Arsenic    | D-As | 0.0003   |
| Barium     | D-Ba | <0.01    |
| Beryllium  | D-Be | <0.001   |
| Boron      | D-B  | <0.1     |
| Cadmium    | D-Cd | <0.00005 |
| Calcium    | D-Ca | 4.21     |
| Chromium   | D-Cr | <0.0005  |
| Cobalt     | D-Co | <0.0001  |
| Copper     | D-Cu | 0.0005   |
| Iron       | D-Fe | <0.03    |
| Lead       | D-Pb | <0.00005 |
| Magnesium  | D-Mg | 0.3      |
| Manganese  | D-Mn | <0.005   |
| Mercury    | D-Hg | <0.00002 |
| Molybdenum | D-Mo | <0.03    |
| Nickel     | D-Ni | <0.001   |
| Potassium  | D-K  | <2       |
| Selenium   | D-Se | <0.001   |
| Silver     | D-Ag | <0.00001 |
| Sodium     | D-Na | <2       |
| Thallium   | D-Tl | <0.00005 |
| Titanium   | D-Ti | <0.01    |
| Uranium    | D-U  | 0.0006   |
| Vanadium   | D-V  | <0.03    |
| Zinc       | D-Zn | <0.005   |

---

Remarks regarding the analyses appear at the beginning of this report.  
Results are expressed as milligrams per litre except where noted.  
< = Less than the detection limit indicated.

## Appendix 1 - QUALITY CONTROL - Replicates



|       |          |                |
|-------|----------|----------------|
| Water | C-1      | C-1            |
|       | 01 07 04 | QC #<br>247512 |

**Physical Tests**

|          |                   |      |      |
|----------|-------------------|------|------|
| Hardness | CaCO <sub>3</sub> | 24.0 | 23.1 |
|----------|-------------------|------|------|

**Dissolved Anions**

|                     |                   |    |    |
|---------------------|-------------------|----|----|
| Acidity (to pH 8.3) | CaCO <sub>3</sub> | 2  | 2  |
| Alkalinity-Total    | CaCO <sub>3</sub> | 19 | 19 |
| Sulphate            | SO <sub>4</sub>   | 4  | 4  |

**Nutrients**

|                           |   |        |        |
|---------------------------|---|--------|--------|
| Ammonia Nitrogen          | N | 0.018  | 0.018  |
| Nitrate Nitrogen          | N | 0.052  | 0.051  |
| Dissolved ortho-Phosphate | P | <0.001 | <0.001 |

Remarks regarding the analyses appear at the beginning of this report.  
Results are expressed as milligrams per litre except where noted.  
< = Less than the detection limit indicated.

## Appendix 1 - QUALITY CONTROL - Replicates



Water

C-1

C-1

01 07 04

QC #  
247512**Total Metals**

|            |      |          |          |
|------------|------|----------|----------|
| Aluminum   | T-Al | 0.005    | 0.005    |
| Antimony   | T-Sb | 0.0001   | 0.0001   |
| Arsenic    | T-As | 0.0009   | 0.0009   |
| Barium     | T-Ba | 0.01     | 0.01     |
| Beryllium  | T-Be | <0.001   | <0.001   |
| Boron      | T-B  | <0.1     | <0.1     |
| Cadmium    | T-Cd | 0.00106  | 0.00105  |
| Calcium    | T-Ca | 8.54     | 8.64     |
| Chromium   | T-Cr | <0.0005  | <0.0005  |
| Cobalt     | T-Co | <0.0001  | <0.0001  |
| Copper     | T-Cu | 0.0012   | 0.0012   |
| Iron       | T-Fe | <0.03    | <0.03    |
| Lead       | T-Pb | <0.00005 | <0.00005 |
| Magnesium  | T-Mg | 0.3      | 0.3      |
| Manganese  | T-Mn | <0.005   | <0.005   |
| Mercury    | T-Hg | <0.00002 | <0.00002 |
| Molybdenum | T-Mo | <0.03    | <0.03    |
| Nickel     | T-Ni | 0.002    | 0.002    |
| Potassium  | T-K  | <2       | <2       |
| Selenium   | T-Se | 0.002    | 0.002    |
| Silver     | T-Ag | 0.00001  | 0.00002  |
| Sodium     | T-Na | <2       | <2       |
| Thallium   | T-Tl | <0.00005 | <0.00005 |
| Titanium   | T-Ti | <0.01    | <0.01    |
| Uranium    | T-U  | <0.0001  | <0.0001  |
| Vanadium   | T-V  | <0.03    | <0.03    |
| Zinc       | T-Zn | 0.051    | 0.050    |

Remarks regarding the analyses appear at the beginning of this report.  
Results are expressed as milligrams per litre except where noted.  
< = Less than the detection limit indicated.

## Appendix 1 - QUALITY CONTROL - Replicates



| Water                   |      | C-1      | C-1            |
|-------------------------|------|----------|----------------|
|                         |      | 01 07 04 | QC #<br>247512 |
| <b>Dissolved Metals</b> |      |          |                |
| Aluminum                | D-Al | <0.005   | <0.005         |
| Antimony                | D-Sb | 0.0001   | 0.0001         |
| Arsenic                 | D-As | 0.0009   | 0.0009         |
| Barium                  | D-Ba | 0.01     | 0.01           |
| Beryllium               | D-Be | <0.001   | <0.001         |
|                         |      |          |                |
| Boron                   | D-B  | <0.1     | <0.1           |
| Cadmium                 | D-Cd | 0.00110  | 0.00105        |
| Calcium                 | D-Ca | 9.04     | 8.72           |
| Chromium                | D-Cr | <0.0005  | <0.0005        |
| Cobalt                  | D-Co | <0.0001  | <0.0001        |
|                         |      |          |                |
| Copper                  | D-Cu | 0.0011   | 0.0011         |
| Iron                    | D-Fe | <0.03    | <0.03          |
| Lead                    | D-Pb | <0.00005 | <0.00005       |
| Magnesium               | D-Mg | 0.3      | 0.3            |
| Manganese               | D-Mn | <0.005   | <0.005         |
|                         |      |          |                |
| Mercury                 | D-Hg | <0.00002 | <0.00002       |
| Molybdenum              | D-Mo | <0.03    | <0.03          |
| Nickel                  | D-Ni | 0.002    | 0.002          |
| Potassium               | D-K  | <2       | <2             |
| Selenium                | D-Se | 0.002    | 0.002          |
|                         |      |          |                |
| Silver                  | D-Ag | <0.00001 | <0.00001       |
| Sodium                  | D-Na | <2       | <2             |
| Thallium                | D-Tl | <0.00005 | <0.00005       |
| Titanium                | D-Ti | <0.01    | <0.01          |
| Uranium                 | D-U  | <0.0001  | <0.0001        |
|                         |      |          |                |
| Vanadium                | D-V  | <0.03    | <0.03          |
| Zinc                    | D-Zn | 0.055    | 0.053          |

Remarks regarding the analyses appear at the beginning of this report.  
 Results are expressed as milligrams per litre except where noted.  
 < = Less than the detection limit indicated.

## Appendix 2 - METHODOLOGY



Outlines of the methodologies utilized for the analysis of the samples submitted are as follows

### Solids in Water

This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total dissolved solids (TDS) and total suspended solids (TSS) are determined by filtering a sample through a glass fibre filter, TDS is determined by evaporating the filtrate to dryness at 180 degrees celsius, TSS is determined by drying the filter at 104 degrees celsius. Total solids are determined by evaporating a sample to dryness at 104 degrees celsius. Fixed and volatile solids are determined by igniting a dried sample residue at 550 degrees celsius.

Recommended Holding Time:

Sample: 7 days

Reference: APHA

For more detail see ALS Environmental "Collection & Sampling Guide"

### Acidity in Water

This analysis is carried out using procedures adapted from APHA Method 2310 "Acidity". Acidity is determined by potentiometric titration to a specified endpoint.

Recommended Holding Time:

Sample: 14 days

Reference: APHA

For more detail see ALS Environmental "Collection & Sampling Guide"

### Alkalinity in Water by Colourimetry

This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.

Recommended Holding Time:

Sample: 14 days

Reference: APHA

For more detail see ALS Environmental "Collection & Sampling Guide"

### Sulphate in Water

This analysis is carried out using procedures adapted from APHA Method 4500-SO4 "Sulphate". Sulphate is determined using the turbidimetric method.

Recommended Holding Time:

Sample: 28 days

Reference: APHA

For more detail see ALS Environmental "Collection & Sampling Guide"

## Appendix 2 - METHODOLOGY - Continued



### Ammonia in Water by Colourimetry

This analysis is carried out, on unpreserved samples, using procedures adapted from APHA Method 4500-NH<sub>3</sub> "Nitrogen (Ammonia)". Ammonia is determined using the phenate colourimetric method.

Recommended Holding Time:

Sample: 1 day

Reference: APHA

For more detail see ALS Environmental "Collection & Sampling Guide"

### Nitrate and Nitrite In Water by Colourimetry

This analysis is carried out using procedures adapted from APHA Method 4500-NO<sub>2</sub> "Nitrogen (Nitrite)" and Method 4500-NO<sub>3</sub> "Nitrogen (Nitrate)". Nitrite is determined using the azo dye colourimetric method. Nitrate is determined using the cadmium reduction colourimetric method. Nitrate/nitrite is the sum of the concentrations of nitrate and nitrite present in the sample.

Recommended Holding Time:

Sample: 2 days

Reference: APHA and EPA

For more detail see ALS Environmental "Collection & Sampling Guide"

### Phosphate in Water

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". All forms of phosphate are determined by the ascorbic acid colourimetric method. Dissolved ortho-phosphate (dissolved reactive phosphorous) is determined by direct measurement. Total phosphate (total phosphorous) is determined after persulphate digestion of a sample. Total dissolved phosphate (total dissolved phosphorous) is determined by filtering a sample through a 0.45 micron membrane filter followed by persulfate digestion of the filtrate.

Recommended Holding Time:

Sample: 2 days

Reference: EPA

For more detail see ALS Environmental "Collection & Sampling Guide"

### Metals in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotplate or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by atomic absorption/emission spectrophotometry (EPA Method 7000 series), inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B), and/or inductively coupled plasma - mass spectrometry (EPA Method 6020).

## Appendix 2 - METHODOLOGY - Continued



**Recommended Holding Time:**

Sample: 6 months  
Reference: EPA  
For more detail see: ALS "Collection & Sampling Guide"

### Mercury in Water

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" 20th Edition 1998 published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedure involves a cold-oxidation of the acidified sample using bromine monochloride prior to reduction of the sample with stannous chloride. Instrumental analysis is by cold vapour atomic absorption and/or fluorescence spectrophotometry (EPA Method 7470A/7471A/245.7).

**Recommended Holding Time:**

Sample: 28 days  
Reference: EPA  
For more detail see ALS Environmental "Collection & Sampling Guide"

### Ammonia in Water by Selective Ion Electrode

This analysis is carried out, on sulphuric acid preserved samples, using procedures adapted from APHA Method 4500-NH3 "Nitrogen (Ammonia)". Ammonia is determined using an ammonia selective electrode.

**Recommended Holding Time:**

Sample: 28 days  
Reference: APHA  
For more detail see ALS Environmental "Collection & Sampling Guide"

**End Of Report**



## **APPENDIX B**

### **WATER QUALITY DATA, 2001, 2000 AND 1999**

## APPENDIX B

## WATER QUALITY DATA FOR 1999, 2000 AND 2001

| Sample ID                 | C-1      |         |         | C-2      |          |          |
|---------------------------|----------|---------|---------|----------|----------|----------|
| Year Sampled              | 2001     | 2000    | 1999    | 2001     | 1999     | 1999     |
| Date Sampled              | July 4   | July 14 | June 24 | July 4   | Sept 15  | June 24  |
| Time Sampled              | 20:30    | 12:50   | 10:00   | 20:10    | 10:00    | 10:45    |
| <b>In-situ Tests</b>      |          |         |         |          |          |          |
| Flow, cms                 | 0.0008   | 0.0005  | 0.0015  | 0.20     | —        | 0.062    |
| Temperature °C            | 4.9      | 4.1     | 1.4     | 0.9      | —        | 0.2      |
| pH                        | 7.4      | 8.1     | 7.65    | 7.32     | —        | 6.68     |
| Conductivity, uS/cm       | 48.6     | 130.3   | 100     | 25       | —        | 38.1     |
| Dissolved Oxygen, mg/L    | —        | —       | —       | 13.3     | —        | —        |
| <b>Physical Tests</b>     |          |         |         |          |          |          |
| Total Dissolved Solids    | 26       | 76      | -       | 12       | 121      | 16       |
| Hardness CaCO3            | 24       | 66.4    | 52.7    | 9.3      | 81.3     | 11.8     |
| Total Suspended Solids    | <3       | 3       | -       | <3       | <3       | 5        |
| <b>Dissolved Anions</b>   |          |         |         |          |          |          |
| Acidity (to pH 8.3) CaCO3 | 2        | <1      | -       | 2        | 2        | 2        |
| Alkalinity-Total CaCO3    | 19       | 53      | -       | 5        | 17       | 4        |
| Sulphate SO4              | 4        | 11      | -       | 4        | 61       | 8        |
| <b>Nutrients</b>          |          |         |         |          |          |          |
| Ammonia Nitrogen N        | 0.018    | <0.005  | -       | <0.005   | <0.005   | 0.009    |
| Nitrate Nitrogen N        | 0.052    | 0.186   | -       | 0.043    | 0.231    | 0.067    |
| Nitrite Nitrogen N        | 0.001    | 0.001   | -       | <0.001   | 0.001    | 0.001    |
| Dissolved ortho-Phosphate | <0.001   | 0.007   | -       | <0.001   | 0.001    | <0.001   |
| <b>Total Metals</b>       |          |         |         |          |          |          |
| Aluminum T-Al             | 0.005    | -       | -       | 0.044    | 0.043    | 0.158    |
| Antimony T-Sb             | 0.0001   | -       | -       | <0.0001  | 0.0001   | <0.0001  |
| Arsenic T-As              | 0.0009   | -       | -       | 0.0002   | 0.0003   | 0.0004   |
| Barium T-Ba               | 0.01     | -       | -       | <0.01    | 0.01     | <0.01    |
| Beryllium T-Be            | <0.001   | -       | -       | <0.001   | <0.001   | <0.005   |
| Boron T-B                 | <0.1     | -       | -       | <0.1     | <0.1     | <0.1     |
| Cadmium T-Cd              | 0.00106  | -       | -       | <0.00005 | <0.00005 | <0.0002  |
| Calcium T-Ca              | 8.54     | -       | -       | 3.35     | 27.6     | 4.31     |
| Chromium T-Cr             | <0.0005  | -       | -       | <0.0005  | <0.0005  | <0.001   |
| Cobalt T-Co               | <0.0001  | -       | -       | <0.0001  | 0.0002   | <0.01    |
| Copper T-Cu               | 0.0012   | -       | -       | 0.0009   | 0.0013   | 0.003    |
| Iron T-Fe                 | <0.03    | -       | -       | 0.05     | <0.03    | 0.18     |
| Lead T-Pb                 | <0.00005 | -       | -       | 0.00013  | 0.00021  | <0.001   |
| Magnesium T-Mg            | 0.3      | -       | -       | 0.2      | 2.4      | 0.3      |
| Manganese T-Mn            | <0.005   | -       | -       | <0.005   | <0.005   | 0.015    |
| Mercury T-Hg              | <0.00002 | -       | -       | <0.00002 | <0.00002 | <0.00005 |
| Molybdenum T-Mo           | <0.03    | -       | -       | <0.03    | <0.03    | <0.03    |
| Nickel T-Ni               | 0.002    | -       | -       | <0.001   | <0.001   | 0.002    |
| Potassium T-K             | <2       | -       | -       | <2       | <2       | -        |
| Selenium T-Se             | 0.002    | -       | -       | <0.001   | <0.001   | <0.0005  |
| Silver T-Ag               | 0.00001  | -       | -       | <0.00001 | 0.00002  | <0.0001  |
| Sodium T-Na               | <2       | -       | -       | <2       | <2       | <2       |
| Thallium T-Tl             | <0.00005 | -       | -       | <0.00005 | <0.00005 | <0.0001  |
| Titanium T-Ti             | <0.01    | -       | -       | <0.01    | <0.01    | <0.01    |
| Uranium T-U               | <0.0001  | -       | -       | 0.0003   | 0.0035   | 0.00114  |
| Vanadium T-V              | <0.03    | -       | -       | <0.03    | <0.03    | <0.03    |
| Zinc T-Zn                 | 0.051    | -       | -       | <0.005   | <0.005   | 0.006    |

APPENDIX B

WATER QUALITY DATA FOR 1999, 2000 AND 2001

| Sample ID               | C-1          |              |              | C-2          |              |              |
|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                         | 2001         | 2000         | 1999         | 2001         | 1999         | 1999         |
|                         | Year Sampled | Year Sampled | Year Sampled | Year Sampled | Year Sampled | Year Sampled |
|                         | Date Sampled | Date Sampled | Date Sampled | Date Sampled | Date Sampled | Date Sampled |
| Time Sampled            | 20:30        | 12:50        | 10:00        | 20:10        | 10:00        | 10:45        |
| <b>Dissolved Metals</b> |              |              |              |              |              |              |
| Aluminum D-Al           | <0.005       | 0.009        | 0.01         | 0.008        | 0.011        | 0.037        |
| Antimony D-Sb           | 0.0001       | 0.0002       | 0.0002       | <0.0001      | 0.0001       | <0.0001      |
| Arsenic D-As            | 0.0009       | 0.0015       | 0.0015       | <0.0001      | 0.0002       | 0.0001       |
| Barium D-Ba             | 0.01         | 0.03         | 0.03         | <0.01        | 0.01         | <0.01        |
| Beryllium D-Be          | <0.001       | <0.001       | <0.005       | <0.001       | <0.001       | <0.005       |
| Boron D-B               | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         | <0.1         |
| Cadmium D-Cd            | 0.0011       | 0.00214      | 0.003        | <0.00005     | <0.00005     | <0.0002      |
| Calcium D-Ca            | 9.04         | 25.3         | 19.8         | 3.37         | 28.4         | 4.25         |
| Chromium D-Cr           | <0.0005      | <0.0005      | <0.001       | <0.0005      | <0.0005      | <0.001       |
| Cobalt D-Co             | <0.0001      | <0.0001      | <0.01        | <0.0001      | <0.0001      | <0.01        |
| Copper D-Cu             | 0.0011       | 0.0026       | 0.002        | 0.0004       | 0.0009       | 0.001        |
| Iron D-Fe               | <0.03        | <0.03        | <0.03        | <0.03        | <0.03        | <0.03        |
| Lead D-Pb               | <0.00005     | <0.0001      | <0.001       | <0.00005     | <0.0001      | <0.001       |
| Magnesium D-Mg          | 0.3          | 0.8          | 0.8          | 0.2          | 2.5          | 0.3          |
| Manganese D-Mn          | <0.005       | <0.005       | <0.005       | <0.005       | <0.005       | 0.012        |
| Mercury D-Hg            | <0.00002     | <0.00002     | <0.00005     | <0.00002     | <0.00002     | <0.00005     |
| Molybdenum D-Mo         | <0.03        | <0.03        | <0.03        | <0.03        | <0.03        | <0.03        |
| Nickel D-Ni             | 0.002        | 0.005        | 0.006        | <0.001       | <0.001       | 0.002        |
| Potassium D-K           | <2           | <2           | -            | <2           | <2           | -            |
| Selenium D-Se           | 0.002        | 0.006        | 0.0022       | <0.001       | <0.001       | <0.0005      |
| Silver D-Ag             | <0.00001     | <0.00001     | <0.0001      | <0.00001     | <0.00001     | <0.0001      |
| Sodium D-Na             | <2           | <2           | <2           | <2           | <2           | <2           |
| Thallium D-Tl           | <0.00005     | <0.00005     | <0.0001      | <0.00005     | <0.00005     | <0.0001      |
| Titanium D-Ti           | <0.01        | <0.01        | <0.01        | <0.01        | <0.01        | <0.01        |
| Uranium D-U             | <0.0001      | 0.0012       | 0.00134      | 0.0002       | 0.0031       | 0.00051      |
| Vanadium D-V            | <0.03        | <0.03        | <0.03        | <0.03        | <0.03        | <0.03        |
| Zinc D-Zn               | 0.055        | 0.079        | 0.146        | <0.005       | <0.005       | <0.005       |

Footnotes: Results are expressed as milligrams per litre except where noted.  
< = Less than the detection limit indicated.

## APPENDIX B

## WATER QUALITY DATA FOR 1999, 2000 AND 2001

| Sample ID                             | C-3      |         |         | C-4      |          |         |
|---------------------------------------|----------|---------|---------|----------|----------|---------|
| Year Sampled                          | 2001     | 2000    | 1999    | 2001     | 2000     | 1999    |
| Date Sampled                          | July 4   | July 14 | June 24 | July 4   | July 14  | June 24 |
| Time Sampled                          | 19:30    | 12:30   | 11:30   | 18:20    | 11:45    | 11:50   |
| <b>In-situ Tests</b>                  |          |         |         |          |          |         |
| Flow, cms                             | 0.15     | 0.03    | 0.03    | 0.043    | 0.025    | 0.04    |
| Temperature °C                        | 0.7      | 1.5     | 1.5     | 3.6      | 2.3      | 4.1     |
| pH                                    | 7.5      | 7.6     | 6.75    | 7.4      | 7.3      | 6.81    |
| Conductivity, uS/cm                   | 29       | 56.1    | 35.7    | 24.1     | 44.4     | 26.3    |
| Dissolved Oxygen, mg/L                | 13.9     | —       | —       | 12.4     | —        | —       |
| <b>Physical Tests</b>                 |          |         |         |          |          |         |
| Total Dissolved Solids                | 13       | 30      | -       | 13       | 34       | -       |
| Hardness CaCO <sub>3</sub>            | 11.8     | 24.3    | 17.8    | 8.7      | 18.2     | 11.2    |
| Total Suspended Solids                | <3       | <3      | -       | <3       | <3       | -       |
| <b>Dissolved Anions</b>               |          |         |         |          |          |         |
| Acidity (to pH 8.3) CaCO <sub>3</sub> | 1        | <1      | -       | 2        | 1        | -       |
| Alkalinity-Total CaCO <sub>3</sub>    | 10       | 19      | -       | 3        | 5        | -       |
| Sulphate SO <sub>4</sub>              | 2        | 3       | -       | 6        | 12       | -       |
| <b>Nutrients</b>                      |          |         |         |          |          |         |
| Ammonia Nitrogen N                    | <0.005   | <0.005  | -       | 0.173    | <0.005   | -       |
| Nitrate Nitrogen N                    | 0.047    | 0.082   | -       | 0.048    | 0.092    | -       |
| Nitrite Nitrogen N                    | 0.001    | <0.001  | -       | 0.001    | 0.001    | -       |
| Dissolved ortho-Phosphate             | <0.001   | 0.001   | -       | <0.001   | 0.007    | -       |
| <b>Total Metals</b>                   |          |         |         |          |          |         |
| Aluminum T-Al                         | 0.026    | -       | -       | 0.046    | 0.022    | -       |
| Antimony T-Sb                         | <0.0001  | -       | -       | <0.0001  | <0.0001  | -       |
| Arsenic T-As                          | 0.0005   | -       | -       | 0.0003   | 0.0003   | -       |
| Barium T-Ba                           | <0.01    | -       | -       | <0.01    | <0.01    | -       |
| Beryllium T-Be                        | <0.001   | -       | -       | <0.001   | <0.001   | -       |
| Boron T-B                             | <0.1     | -       | -       | <0.1     | <0.1     | -       |
| Cadmium T-Cd                          | <0.00005 | -       | -       | 0.00007  | 0.000090 | -       |
| Calcium T-Ca                          | 4.49     | -       | -       | 3.18     | 6.28     | -       |
| Chromium T-Cr                         | <0.0005  | -       | -       | <0.0005  | <0.0005  | -       |
| Cobalt T-Co                           | <0.0001  | -       | -       | <0.0001  | 0.0001   | -       |
| Copper T-Cu                           | 0.0004   | -       | -       | 0.0007   | 0.0008   | -       |
| Iron T-Fe                             | <0.03    | -       | -       | <0.03    | <0.03    | -       |
| Lead T-Pb                             | 0.00013  | -       | -       | 0.00009  | <0.00005 | -       |
| Magnesium T-Mg                        | 0.1      | -       | -       | 0.2      | 0.4      | -       |
| Manganese T-Mn                        | <0.005   | -       | -       | <0.005   | <0.005   | -       |
| Mercury T-Hg                          | <0.00002 | -       | -       | <0.00002 | <0.00002 | -       |
| Molybdenum T-Mo                       | <0.03    | -       | -       | <0.03    | <0.03    | -       |
| Nickel T-Ni                           | <0.001   | -       | -       | 0.002    | 0.003    | -       |
| Potassium T-K                         | <2       | -       | -       | <2       | <2       | -       |
| Selenium T-Se                         | <0.001   | -       | -       | <0.001   | <0.001   | -       |
| Silver T-Ag                           | <0.00001 | -       | -       | <0.00001 | <0.00001 | -       |
| Sodium T-Na                           | <2       | -       | -       | <2       | <2       | -       |
| Thallium T-Tl                         | <0.00005 | -       | -       | <0.00005 | <0.00005 | -       |
| Titanium T-Ti                         | <0.01    | -       | -       | <0.01    | <0.01    | -       |
| Uranium T-U                           | 0.0004   | -       | -       | 0.0002   | 0.0002   | -       |
| Vanadium T-V                          | <0.03    | -       | -       | <0.03    | <0.03    | -       |
| Zinc T-Zn                             | <0.005   | -       | -       | 0.007    | 0.009    | -       |

**APPENDIX B**
**WATER QUALITY DATA FOR 1999, 2000 AND 2001**

| Sample ID    | C-3    |         |         | C-4    |         |         |
|--------------|--------|---------|---------|--------|---------|---------|
| Year Sampled | 2001   | 2000    | 1999    | 2001   | 2000    | 1999    |
| Date Sampled | July 4 | July 14 | June 24 | July 4 | July 14 | June 24 |
| Time Sampled | 19:30  | 12:30   | 11:30   | 18:20  | 11:45   | 11:50   |

**Dissolved Metals**

|                 |          |          |          |          |          |          |
|-----------------|----------|----------|----------|----------|----------|----------|
| Aluminum D-Al   | 0.006    | 0.006    | 0.008    | 0.007    | 0.014    | 0.007    |
| Antimony D-Sb   | <0.0001  | <0.0001  | <0.0001  | <0.0001  | <0.0001  | <0.0001  |
| Arsenic D-As    | 0.0004   | 0.0004   | 0.0005   | 0.0001   | 0.0002   | 0.0002   |
| Barium D-Ba     | <0.01    | <0.01    | <0.01    | <0.01    | <0.01    | <0.01    |
| Beryllium D-Be  | <0.001   | <0.001   | <0.005   | <0.001   | <0.001   | <0.005   |
| Boron D-B       | <0.1     | <0.1     | <0.1     | <0.1     | <0.1     | <0.1     |
| Cadmium D-Cd    | <0.00005 | <0.00005 | <0.0002  | 0.00006  | 0.00009  | <0.0002  |
| Calcium D-Ca    | 4.52     | 9.37     | 6.77     | 3.14     | 6.63     | 3.99     |
| Chromium D-Cr   | <0.0005  | <0.0005  | <0.001   | <0.0005  | <0.0005  | <0.001   |
| Cobalt D-Co     | <0.0001  | <0.0001  | <0.01    | <0.0001  | 0.0001   | <0.01    |
| Copper D-Cu     | 0.0003   | 0.0005   | <0.001   | 0.0005   | 0.0007   | <0.001   |
| Iron D-Fe       | <0.03    | <0.03    | <0.03    | <0.03    | <0.03    | <0.03    |
| Lead D-Pb       | <0.00005 | <0.0001  | <0.001   | <0.00005 | <0.0001  | <0.001   |
| Magnesium D-Mg  | 0.1      | 0.2      | 0.2      | 0.2      | 0.4      | 0.3      |
| Manganese D-Mn  | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   |
| Mercury D-Hg    | <0.00002 | <0.00002 | <0.00005 | <0.00002 | <0.00002 | <0.00005 |
| Molybdenum D-Mo | <0.03    | <0.03    | <0.03    | <0.03    | <0.03    | <0.03    |
| Nickel D-Ni     | <0.001   | <0.001   | <0.001   | 0.002    | 0.003    | 0.002    |
| Potassium D-K   | <2       | <2       | -        | <2       | <2       | -        |
| Selenium D-Se   | <0.001   | <0.001   | <0.0005  | <0.001   | <0.001   | <0.0005  |
| Silver D-Ag     | <0.00001 | <0.00001 | <0.0001  | <0.00001 | <0.00001 | <0.0001  |
| Sodium D-Na     | <2       | <2       | <2       | <2       | <2       | <2       |
| Thallium D-Tl   | <0.00005 | <0.00005 | <0.0001  | <0.00005 | <0.00005 | <0.0001  |
| Titanium D-Ti   | <0.01    | <0.01    | <0.01    | <0.01    | <0.01    | <0.01    |
| Uranium D-U     | 0.0003   | 0.0012   | 0.0007   | 0.0001   | 0.0002   | 0.00011  |
| Vanadium D-V    | <0.03    | <0.03    | <0.03    | <0.03    | <0.03    | <0.03    |
| Zinc D-Zn       | <0.005   | <0.005   | <0.005   | 0.006    | 0.008    | 0.008    |

Footnotes:

**WATER QUALITY DATA FOR 1999, 2000 AND 2001**

| Sample ID                 | C-5      |          |          |          | C-6      |         |          |
|---------------------------|----------|----------|----------|----------|----------|---------|----------|
| Year Sampled              | 2001     | 2000     | 1999     | 1999     | 2001     | 2000    | 1999     |
| Date Sampled              | July 4   | July 14  | Sept 15  | June 24  | July 4   | July 14 | June 24  |
| Time Sampled              | 17:50    | 12:00    | 12:00    | 12:30    | 19:00    | 11:00   | 13:00    |
| <b>In-situ Tests</b>      |          |          |          |          |          |         |          |
| Flow, cms                 | 0.433    | 0.288    | —        | 0.134    | 1.15     | 0.711   | —        |
| Temperature °C            | 3.2      | 3.1      | —        | 5.1      | 4.1      | 2.4     | 4.1      |
| pH                        | 8.1      | 7.3      | —        | 6.71     | 7.2      | 7.6     | 6.58     |
| Conductivity, uS/cm       | 35.1     | 55.2     | —        | 36.6     | 11.2     | 40.8    | 23.7     |
| Dissolved Oxygen, mg/L    | 13.0     | —        | —        | —        | 12.4     | —       | —        |
| <b>Physical Tests</b>     |          |          |          |          |          |         |          |
| Total Dissolved Solids    | 22       | 36       | 67       | 18       | 16       | 32      | 15       |
| Hardness CaCO3            | 13.2     | 22.7     | 43.1     | 15.9     | 12       | 16.7    | 10.1     |
| Total Suspended Solids    | <3       | <3       | <3       | <3       | <3       | <3      | <3       |
| <b>Dissolved Anions</b>   |          |          |          |          |          |         |          |
| Acidity (to pH 8.3) CaCO3 | 1        | 1        | 2        | 2        | 1        | <1      | 2        |
| Alkalinity-Total CaCO3    | 7        | 8        | 12       | 7        | 6        | 8       | 5        |
| Sulphate SO4              | 7        | 13       | 32       | 9        | 4        | 8       | 6        |
| <b>Nutrients</b>          |          |          |          |          |          |         |          |
| Ammonia Nitrogen N        | 0.04     | 0.005    | <0.005   | <0.005   | 0.089    | <0.005  | 0.047    |
| Nitrate Nitrogen N        | 0.054    | 0.075    | 0.224    | 0.082    | 0.071    | 0.098   | 0.061    |
| Nitrite Nitrogen N        | 0.001    | 0.001    | 0.001    | 0.001    | 0.002    | 0.001   | 0.001    |
| Dissolved ortho-Phosphate | <0.001   | 0.007    | 0.002    | <0.001   | <0.001   | 0.006   | <0.001   |
| <b>Total Metals</b>       |          |          |          |          |          |         |          |
| Aluminum T-Al             | 0.043    | 0.045    | 0.039    | 0.068    | 0.021    | -       | 0.036    |
| Antimony T-Sb             | <0.0001  | <0.0001  | <0.0001  | <0.0001  | <0.0001  | -       | <0.0001  |
| Arsenic T-As              | 0.0001   | 0.0002   | 0.0001   | 0.0003   | 0.0004   | -       | 0.0004   |
| Barium T-Ba               | <0.01    | <0.01    | 0.01     | <0.01    | <0.01    | -       | <0.01    |
| Beryllium T-Be            | <0.001   | <0.001   | <0.001   | <0.005   | <0.001   | -       | <0.005   |
| Boron T-B                 | <0.1     | <0.1     | <0.1     | <0.1     | <0.1     | -       | <0.1     |
| Cadmium T-Cd              | <0.00005 | 0.000060 | 0.00009  | <0.0002  | <0.00005 | -       | <0.0002  |
| Calcium T-Ca              | 4.67     | 7.76     | 15.3     | 5.85     | 4.18     | -       | 3.64     |
| Chromium T-Cr             | <0.0005  | <0.0005  | <0.0005  | <0.001   | <0.0005  | -       | <0.001   |
| Cobalt T-Co               | 0.0001   | 0.0001   | 0.0004   | <0.01    | <0.0001  | -       | <0.01    |
| Copper T-Cu               | 0.0006   | 0.0007   | 0.0007   | 0.001    | 0.0005   | -       | <0.001   |
| Iron T-Fe                 | <0.03    | <0.03    | <0.03    | 0.06     | <0.03    | -       | 0.06     |
| Lead T-Pb                 | 0.00006  | 0.00014  | 0.00009  | <0.001   | <0.00005 | -       | <0.001   |
| Magnesium T-Mg            | 0.3      | 0.6      | 1.4      | 0.4      | 0.3      | -       | 0.4      |
| Manganese T-Mn            | <0.005   | 0.005    | 0.015    | <0.005   | <0.005   | -       | 0.006    |
| Mercury T-Hg              | <0.00002 | <0.00002 | <0.00002 | <0.00005 | <0.00002 | -       | <0.00005 |
| Molybdenum T-Mo           | <0.03    | <0.03    | <0.03    | <0.03    | <0.03    | -       | <0.03    |
| Nickel T-Ni               | <0.001   | 0.001    | 0.002    | 0.001    | <0.001   | -       | <0.001   |
| Potassium T-K             | <2       | <2       | <2       | -        | <2       | -       | -        |
| Selenium T-Se             | <0.001   | <0.001   | <0.001   | <0.0005  | <0.001   | -       | <0.0005  |
| Silver T-Ag               | <0.00001 | <0.00001 | 0.00001  | <0.0001  | <0.00001 | -       | <0.0001  |
| Sodium T-Na               | <2       | <2       | <2       | <2       | <2       | -       | <2       |
| Thallium T-Tl             | <0.00005 | <0.00005 | <0.00005 | <0.0001  | <0.00005 | -       | <0.0001  |
| Titanium T-Ti             | <0.01    | <0.01    | <0.01    | <0.01    | <0.01    | -       | <0.01    |
| Uranium T-U               | 0.0002   | 0.0003   | 0.0004   | 0.00033  | 0.0007   | -       | 0.0007   |
| Vanadium T-V              | <0.03    | <0.03    | <0.03    | <0.03    | <0.03    | -       | <0.03    |
| Zinc T-Zn                 | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   | -       | <0.005   |

## APPENDIX B

## WATER QUALITY DATA FOR 1999, 2000 AND 2001

| Sample ID    | C-5    |         |         |         | C-6    |         |         |
|--------------|--------|---------|---------|---------|--------|---------|---------|
| Year Sampled | 2001   | 2000    | 1999    | 1999    | 2001   | 2000    | 1999    |
| Date Sampled | July 4 | July 14 | Sept 15 | June 24 | July 4 | July 14 | June 24 |
| Time Sampled | 17:50  | 12:00   | 12:00   | 12:30   | 19:00  | 11:00   | 13:00   |

**Dissolved Metals**

|                 |          |          |          |          |          |          |          |
|-----------------|----------|----------|----------|----------|----------|----------|----------|
| Aluminum D-Al   | 0.044    | 0.022    | 0.028    | 0.021    | 0.012    | 0.01     | 0.012    |
| Antimony D-Sb   | <0.0001  | <0.0001  | <0.0001  | <0.0001  | <0.0001  | <0.0001  | <0.0001  |
| Arsenic D-As    | <0.0001  | 0.0001   | 0.0001   | 0.0001   | 0.0003   | 0.0003   | 0.0003   |
| Barium D-Ba     | <0.01    | <0.01    | 0.01     | <0.01    | <0.01    | <0.01    | <0.01    |
| Beryllium D-Be  | <0.001   | <0.001   | <0.001   | <0.005   | <0.001   | <0.001   | <0.005   |
| Boron D-B       | <0.1     | <0.1     | <0.1     | <0.1     | <0.1     | <0.1     | <0.1     |
| Cadmium D-Cd    | <0.00005 | 0.00006  | 0.00009  | <0.0002  | <0.00005 | <0.00005 | <0.0002  |
| Calcium D-Ca    | 4.72     | 8.06     | 15       | 5.68     | 4.21     | 5.97     | 3.56     |
| Chromium D-Cr   | <0.0005  | <0.0005  | <0.0005  | <0.001   | <0.0005  | <0.0005  | <0.001   |
| Cobalt D-Co     | <0.0001  | 0.0001   | 0.0004   | <0.01    | <0.0001  | <0.0001  | <0.01    |
| Copper D-Cu     | 0.0005   | 0.0005   | 0.0007   | <0.001   | 0.0005   | 0.0006   | <0.001   |
| Iron D-Fe       | <0.03    | <0.03    | <0.03    | <0.03    | <0.03    | <0.03    | <0.03    |
| Lead D-Pb       | <0.00005 | <0.0001  | <0.0001  | <0.001   | <0.00005 | <0.0001  | <0.001   |
| Magnesium D-Mg  | 0.3      | 0.6      | 1.4      | 0.4      | 0.3      | 0.4      | 0.3      |
| Manganese D-Mn  | <0.005   | 0.005    | 0.015    | <0.005   | <0.005   | <0.005   | <0.005   |
| Mercury D-Hg    | <0.00002 | <0.00002 | <0.00002 | <0.00005 | <0.00002 | <0.00002 | <0.00005 |
| Molybdenum D-Mo | <0.03    | <0.03    | <0.03    | <0.03    | <0.03    | <0.03    | <0.03    |
| Nickel D-Ni     | <0.001   | 0.001    | 0.002    | 0.001    | <0.001   | <0.001   | <0.001   |
| Potassium D-K   | <2       | <2       | <2       | -        | <2       | <2       | -        |
| Selenium D-Se   | <0.001   | <0.001   | <0.001   | <0.0005  | <0.001   | <0.001   | <0.0005  |
| Silver D-Ag     | <0.00001 | <0.00001 | <0.00001 | <0.0001  | <0.00001 | <0.00001 | <0.0001  |
| Sodium D-Na     | <2       | <2       | <2       | <2       | <2       | <2       | <2       |
| Thallium D-Tl   | <0.00005 | <0.00005 | <0.00005 | <0.0001  | <0.00005 | <0.00005 | <0.0001  |
| Titanium D-Ti   | <0.01    | <0.01    | <0.01    | <0.01    | <0.01    | <0.01    | <0.01    |
| Uranium D-U     | 0.0002   | 0.0003   | 0.0004   | 0.00021  | 0.0006   | 0.0008   | 0.0005   |
| Vanadium D-V    | <0.03    | <0.03    | <0.03    | <0.03    | <0.03    | <0.03    | <0.03    |
| Zinc D-Zn       | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   | <0.005   |

Footnotes

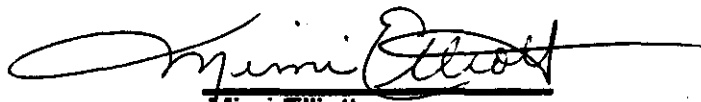
## **APPENDIX 10**

### **Exploration costs – Sunshine Bookkeeping**

**Abstract of Costs from Books of Sunshine Bookkeeping Services**

|                        |                     |
|------------------------|---------------------|
| Assaying Etc.          | 8,838.86            |
| Office Expenses        | 521.90              |
| Camp Supplies          | 5,298.06            |
| Consulting Services    | 27,413.14           |
| Fuel and Oil           | 8,876.41            |
| Helicopter and Freight | 45,027.37           |
| Kitchen Supplies       | 6,071.00            |
| License                | 510.00              |
| Repairs & Maintenance  | 22,141.79           |
| Telephone              | 2,159.59            |
| Travel                 | 590.25              |
| Utilities (Propane)    | 2,774.74            |
| Wages, drillers, etc.  | 59,139.82           |
|                        | <u>\$189,362.93</u> |

I certify that the exploration work done was to the value of at least \$189,362.93.

  
Mimi Elliott

## APPENDIX 10

### Abstract of Costs from Books of Sunshine Bookkeeping

|                        |                   |
|------------------------|-------------------|
| Assaying etc.          | 8,838.86          |
| Bookkeeping            | 521.90            |
| Camp supplies          | 5,298.06          |
| Consulting services    | 27,413.14         |
| Fuel and oil           | 8,876.41          |
| Helicopter and freight | 45,027.37         |
| Kitchen supplies       | 6,071.00          |
| Licenses               | 510.00            |
| Repairs & maintenance  | 22,141.79         |
| Telephone              | 2,159.59          |
| Travel                 | 590.25            |
| Utilities (propane)    | 2,774.74          |
| Wages drillers etc.    | 59,139.82         |
| <b>TOTAL</b>           | <b>189,362.90</b> |

## **APPENDIX 11**

### **Statement of qualifications**

**STATEMENT OF QUALIFICATIONS**

I, David Tenney, C.Eng. do hereby certify that:

I am a consulting mine geologist, registered as a Chartered Engineer (C.Eng.) with the Engineering Council of Great Britain.

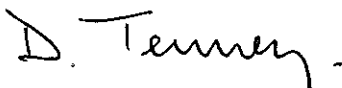
I graduated from the University of Leicester, England, in 1961, with a Bachelor of Science Degree in geology (B.Sc. Geol.). I also hold a postgraduate diploma in mineral exploration from the Royal School of Mines, Imperial College of Science and Technology, London. (D.I.C. Min.Ex.)

I have practised my profession for the past 39 years.

The opinions, and conclusions contained in this report are based on information collected during extensive field work on the Horn claims in June, July, August and early September, 2001, and on previous field work in the summers of 1999 and 2000.

I do not own any direct, indirect or contingent interest in the properties or shares or securities of Canadian United Minerals Incorporated or any associated company.

I reside at 63, Finch Crescent, Whitehorse, Yukon, Y1A - 5X5, Canada, and carry on business in the Yukon Territory, and elsewhere, under the title of Mine Geology Services.



David Tenney C.Eng.

B.Sc. D.I.C. M.I.M.M. C.Eng.

February 23, 2002.

## CANADIAN UNITED MINERALS INC.

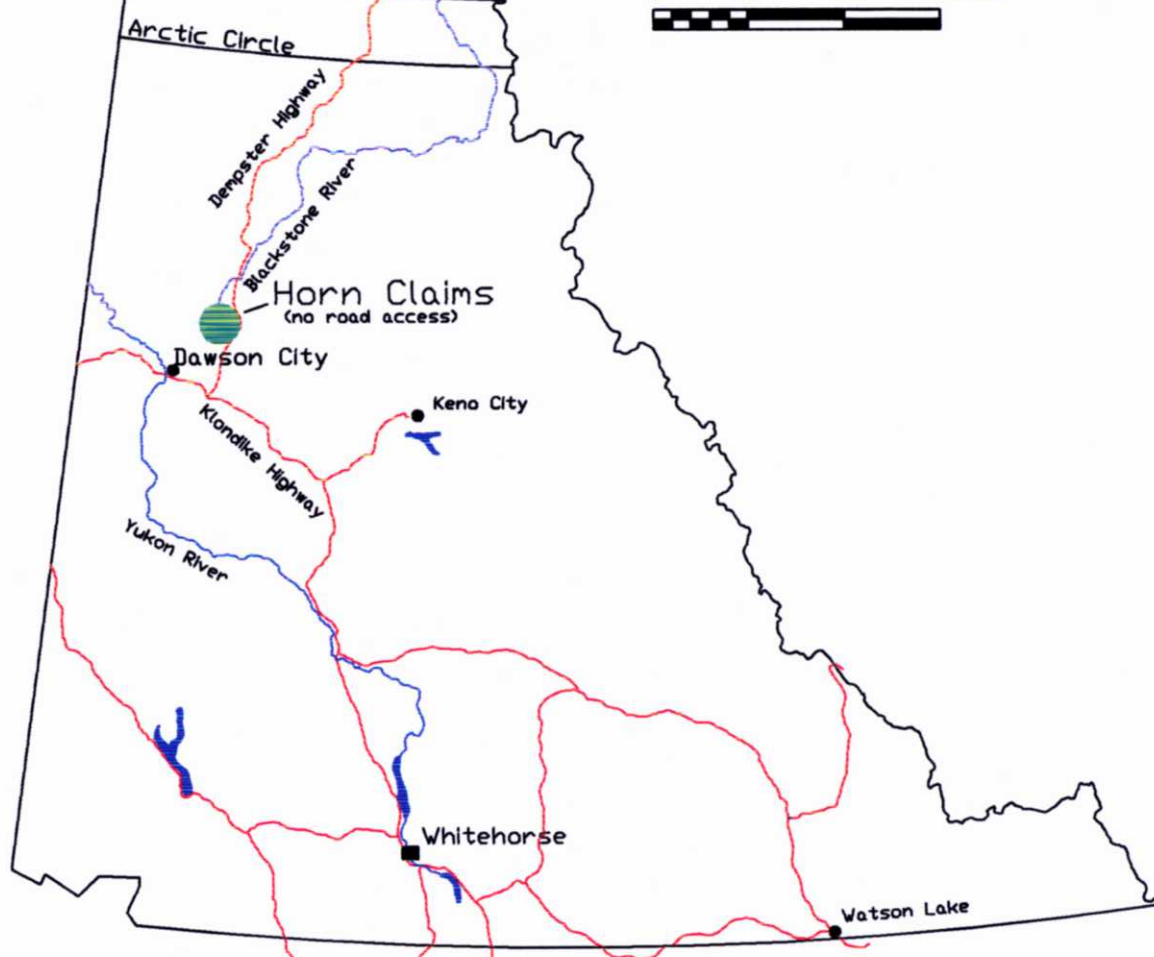
## HORN CLAIMS - LOCATION

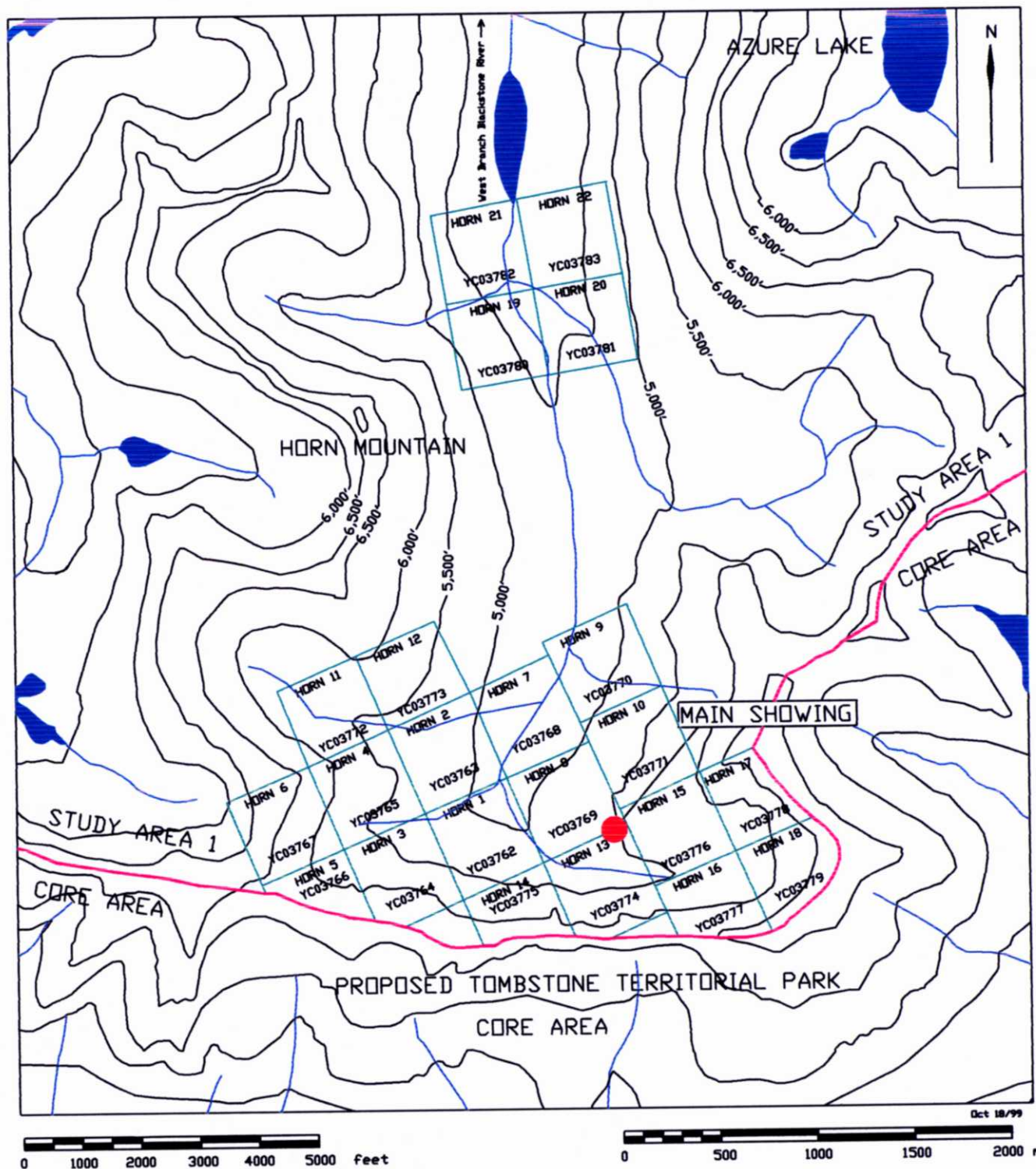
## YUKON TERRITORY

0 50 100 150 200km



0 50 100 150 miles





CANADIAN UNITED MINERALS INC.  
HORN CLAIM GROUP

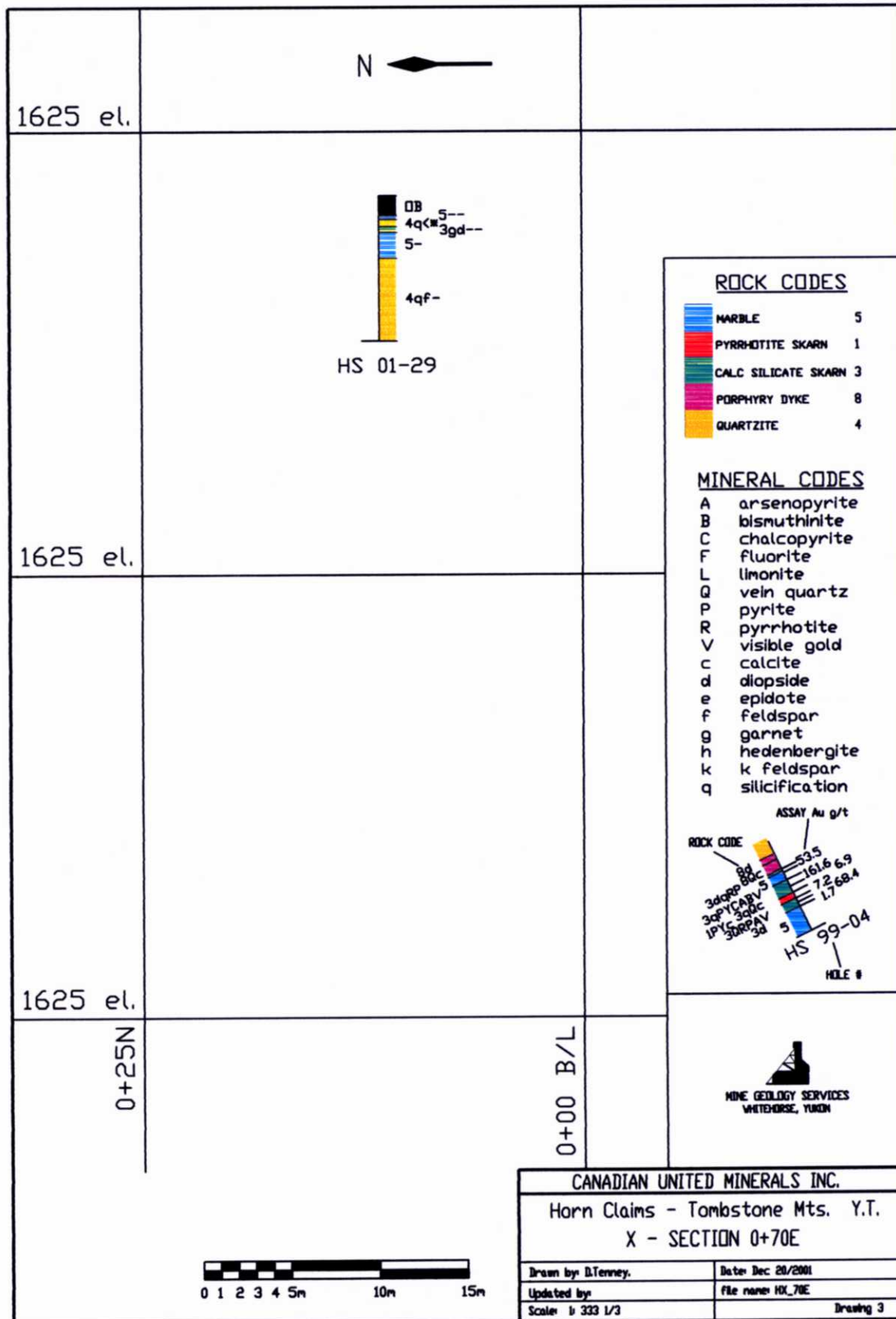
Dawson Mining Division

YUKON TERRITORY

NTS 116 B-7



Mine Geology Services  
Whitehorse, Yukon

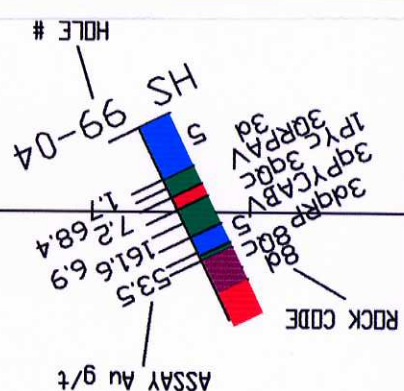


Horn Claims - Tombstone Mts. Y.T. X - SECTION 75E

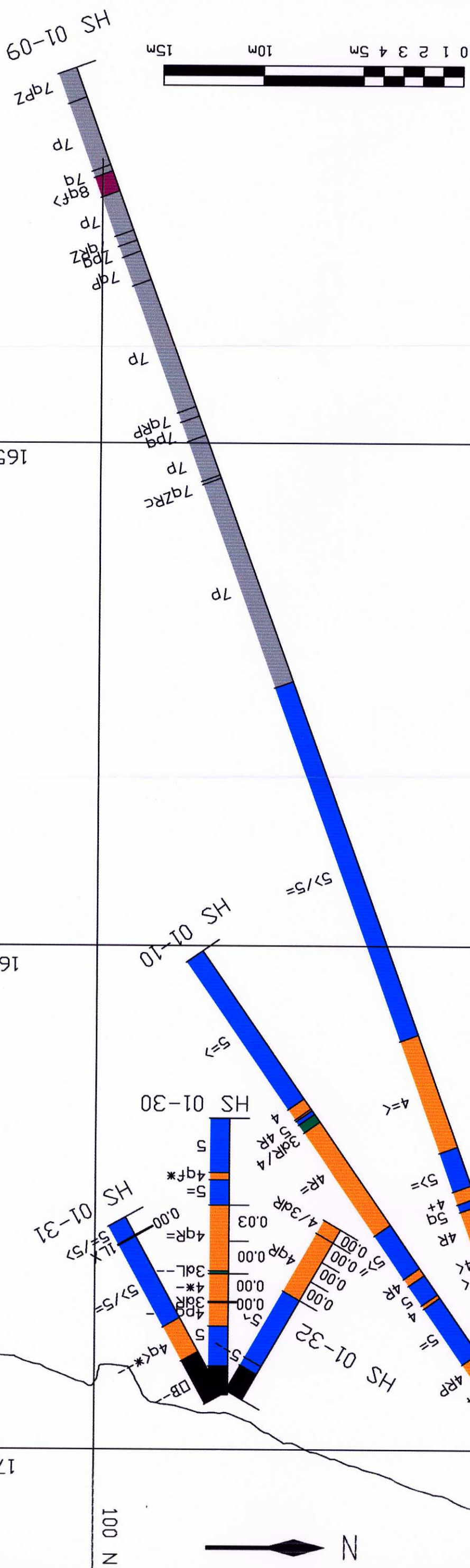
## X - SECTION 75E

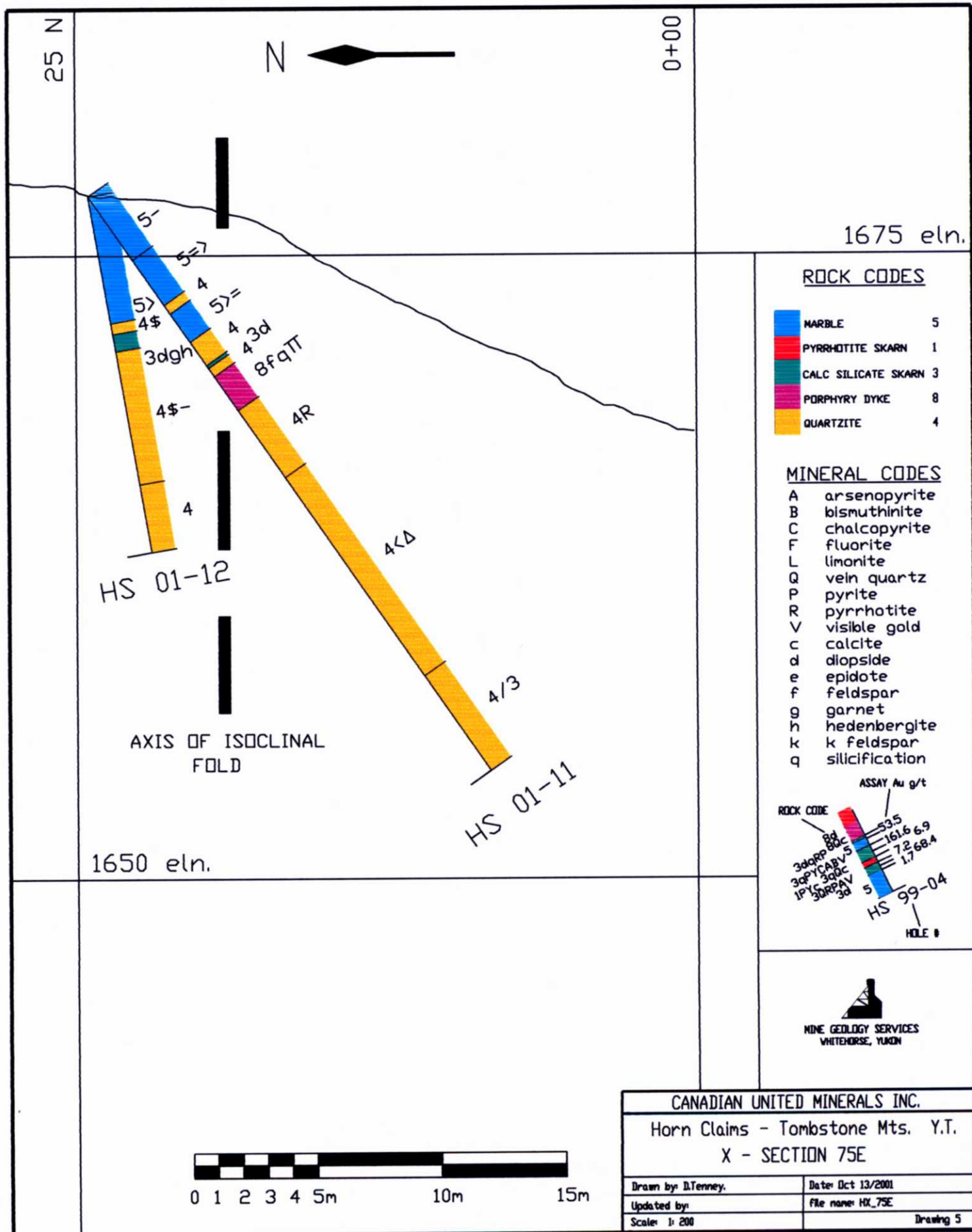
CANADIAN UNITED MINERALS INC.

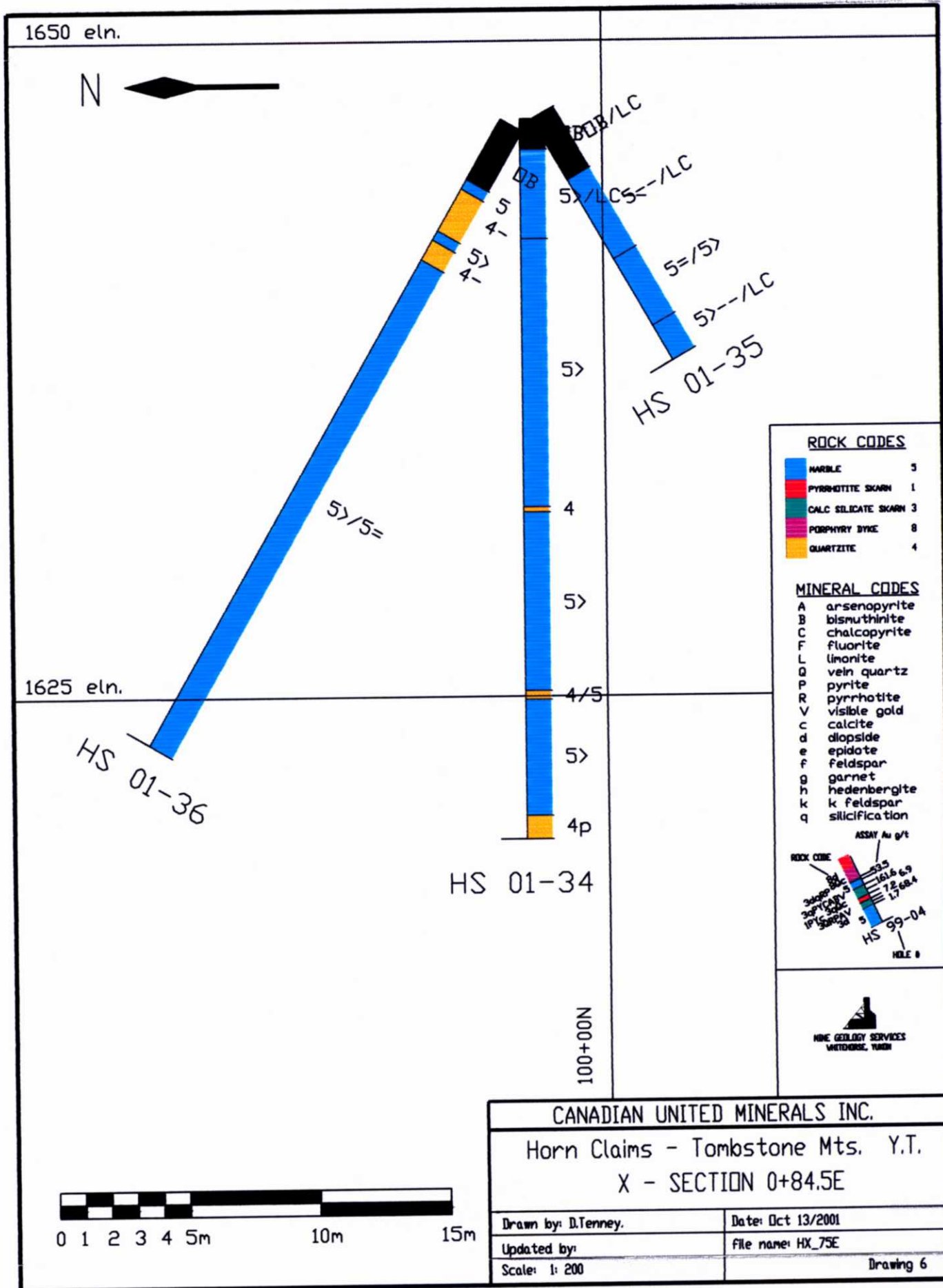
WHITEHORSE, YUKON  
MINE GEOLOGY SERVICES

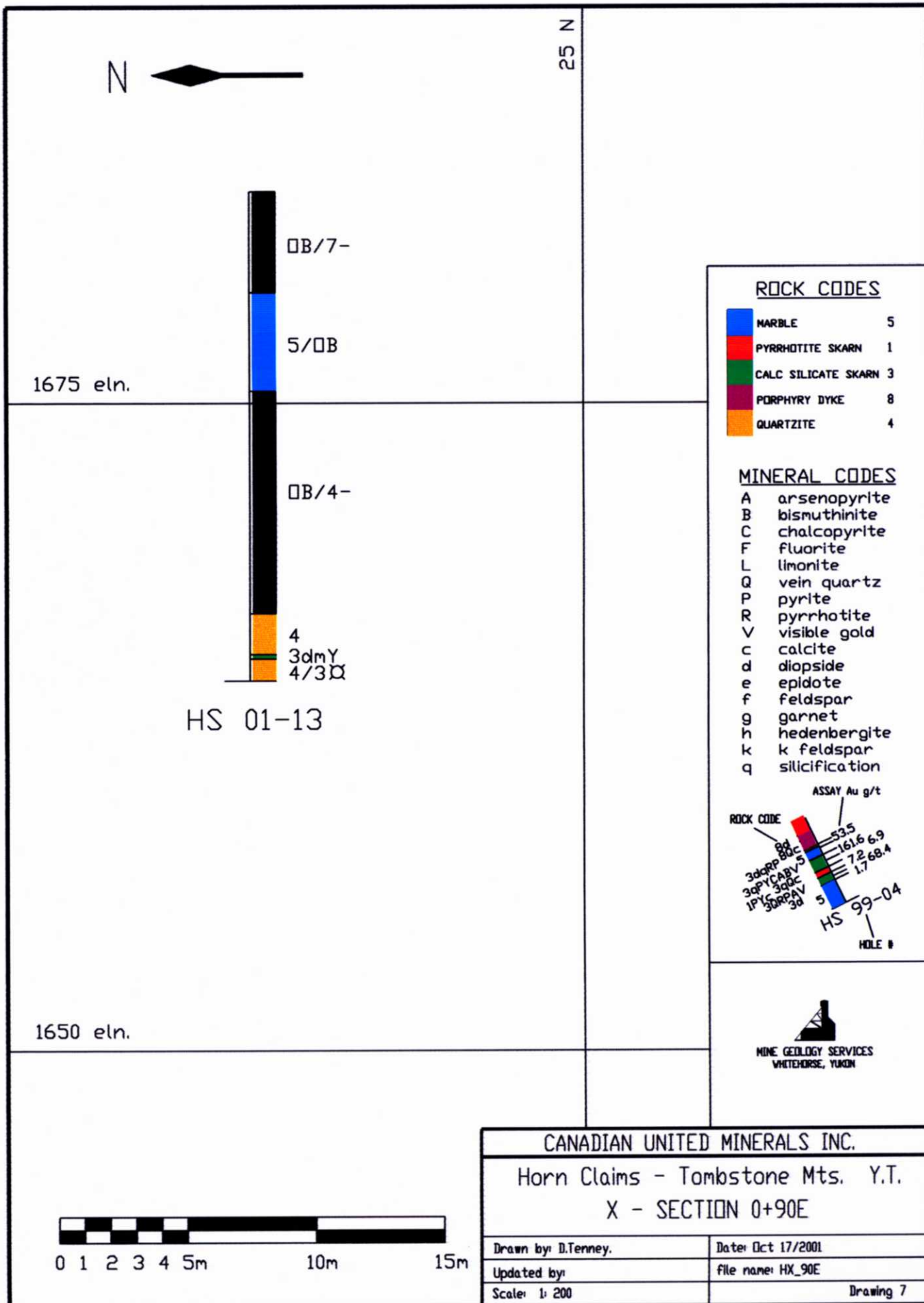


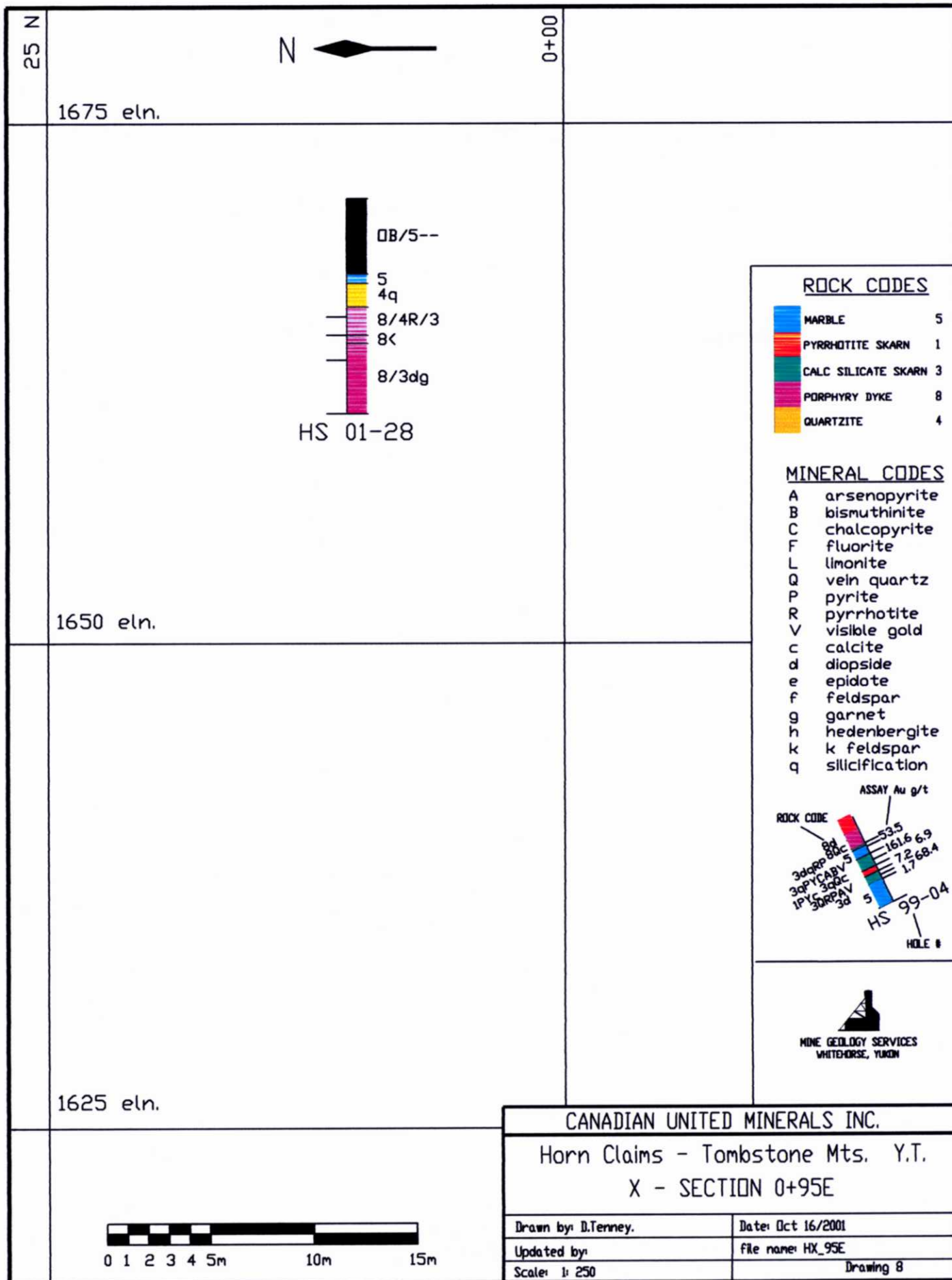
|   |                |
|---|----------------|
| A | arsenopyrite   |
| B | bismuthinite   |
| C | chalcopyrite   |
| F | fluorite       |
| L | limonite       |
| Q | vein quartz    |
| P | pyrite         |
| R | pyrrhotite     |
| V | visible gold   |
| C | calcite        |
| d | diopside       |
| e | epidote        |
| f | feldspar       |
| g | garnet         |
| h | hedenbergite   |
| k | k feldspar     |
| q | silicification |

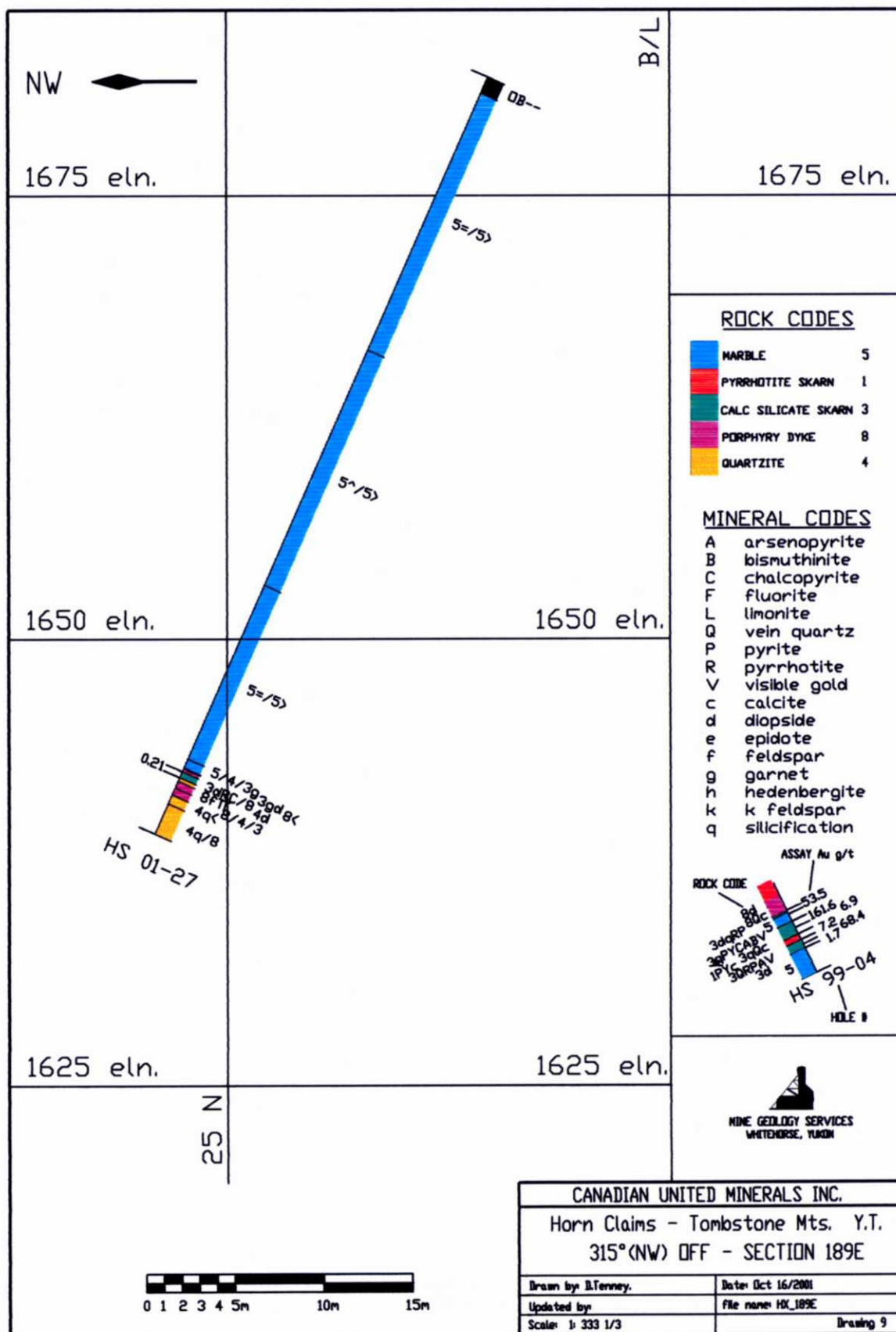


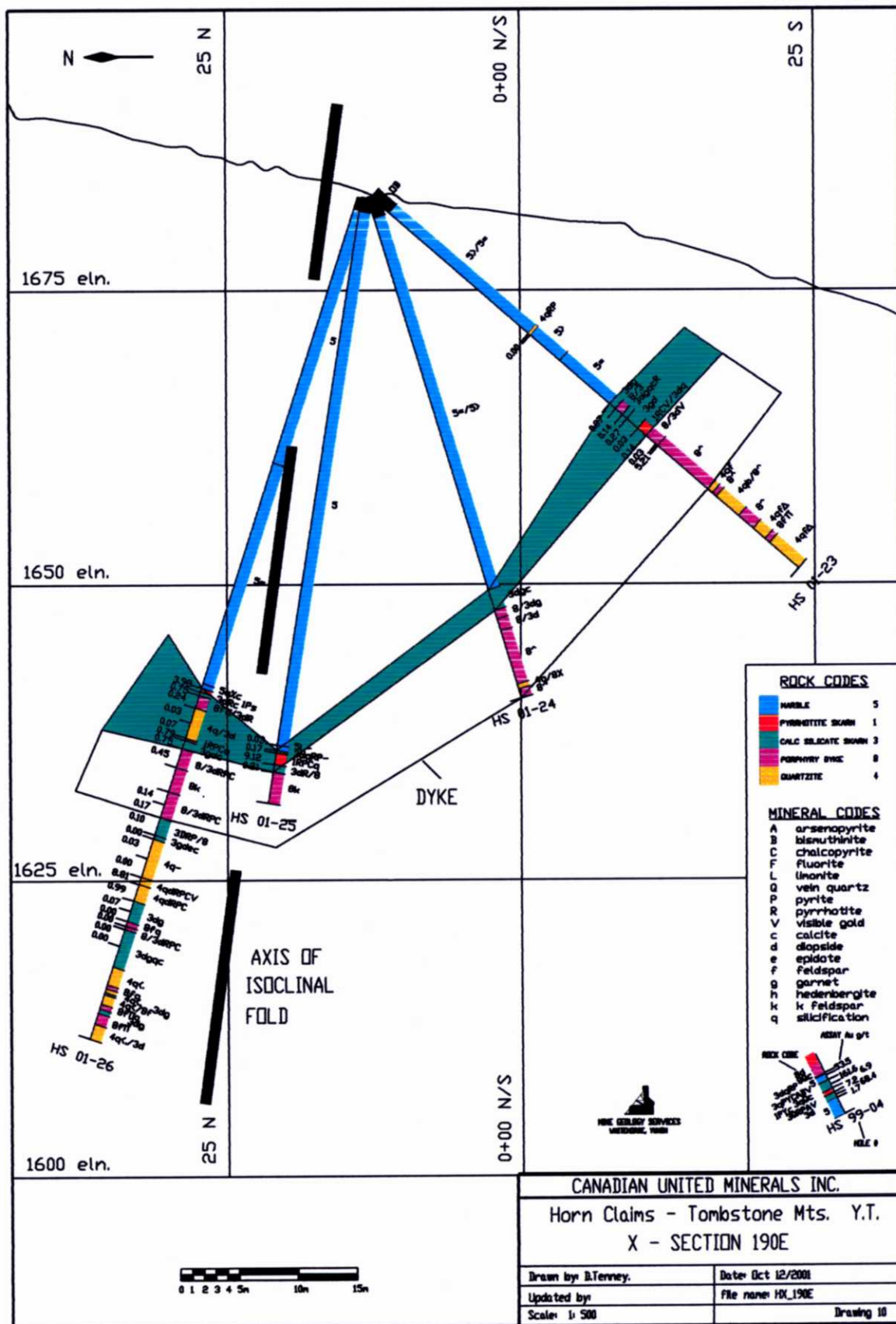


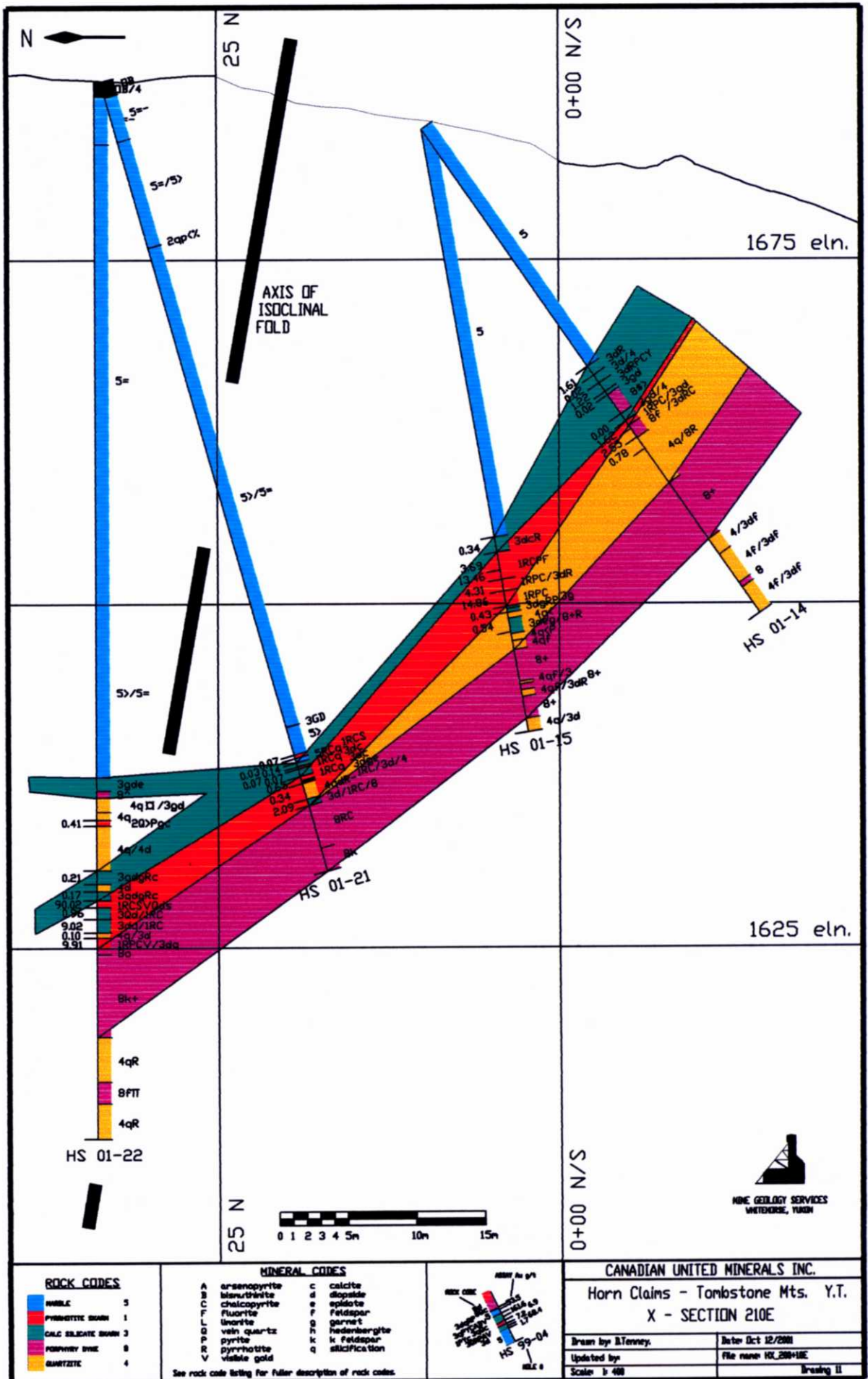


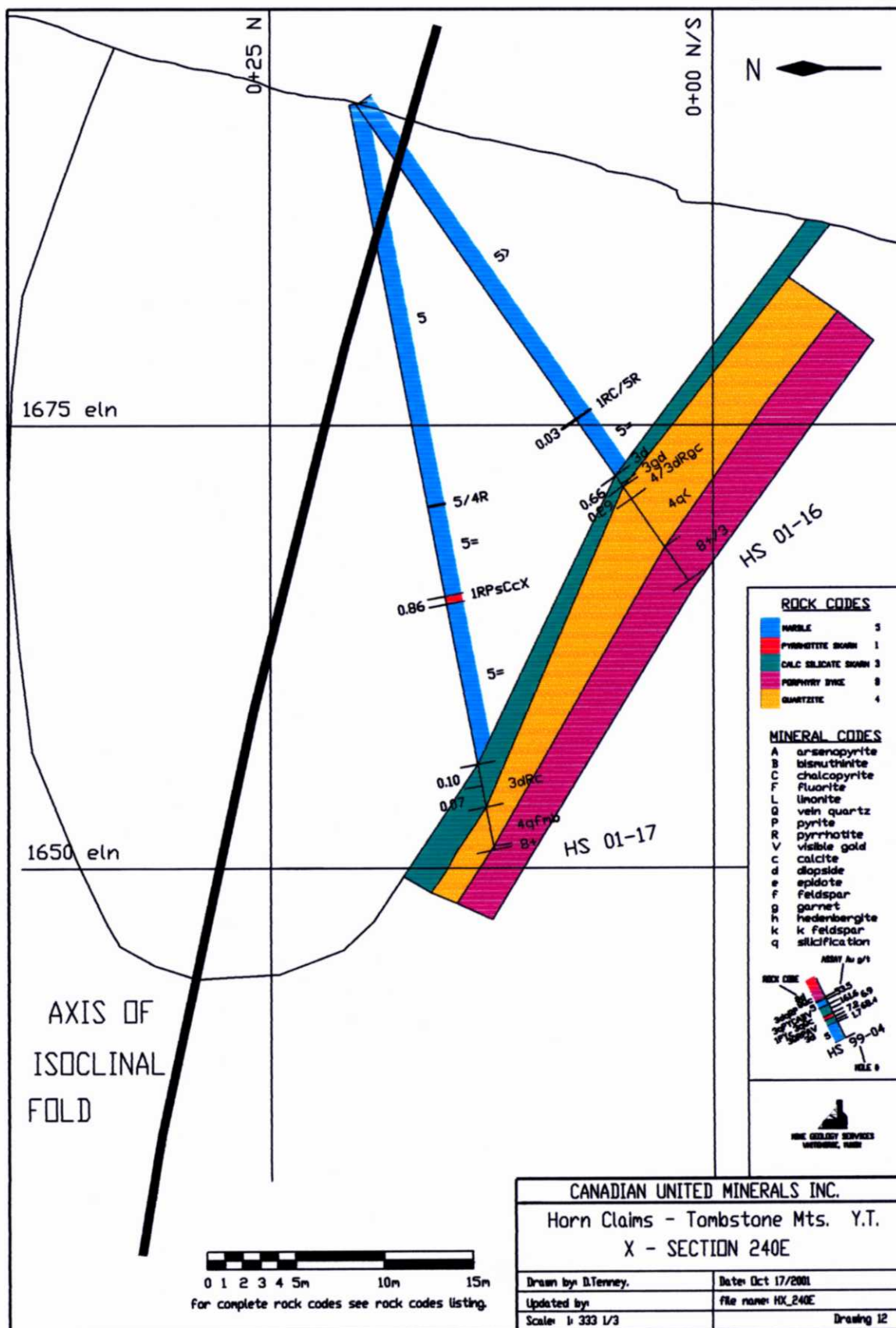


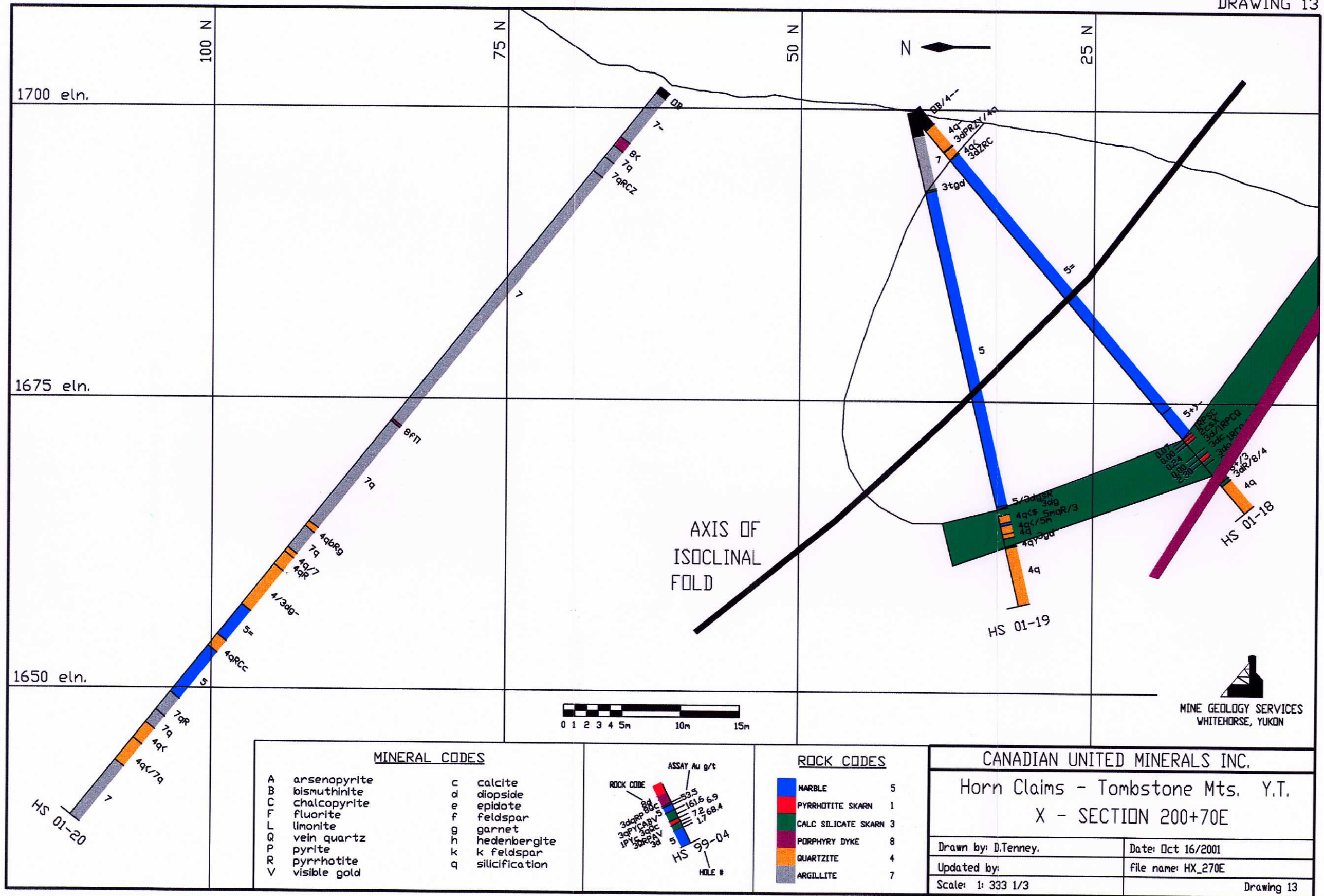


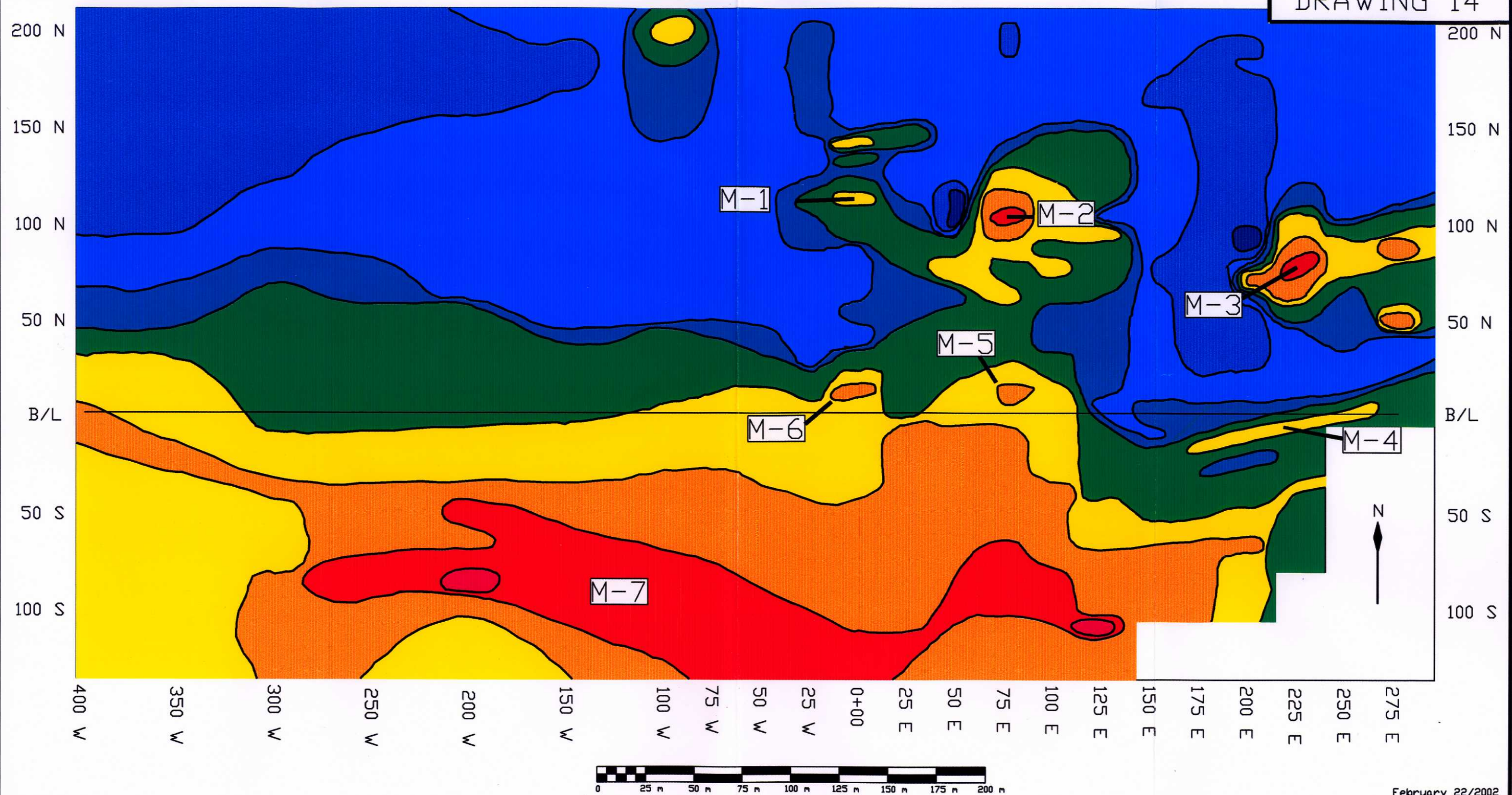






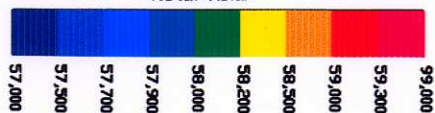






February 22/2002

MAGNETIC CONTOURS - GAMMAS  
(total field)

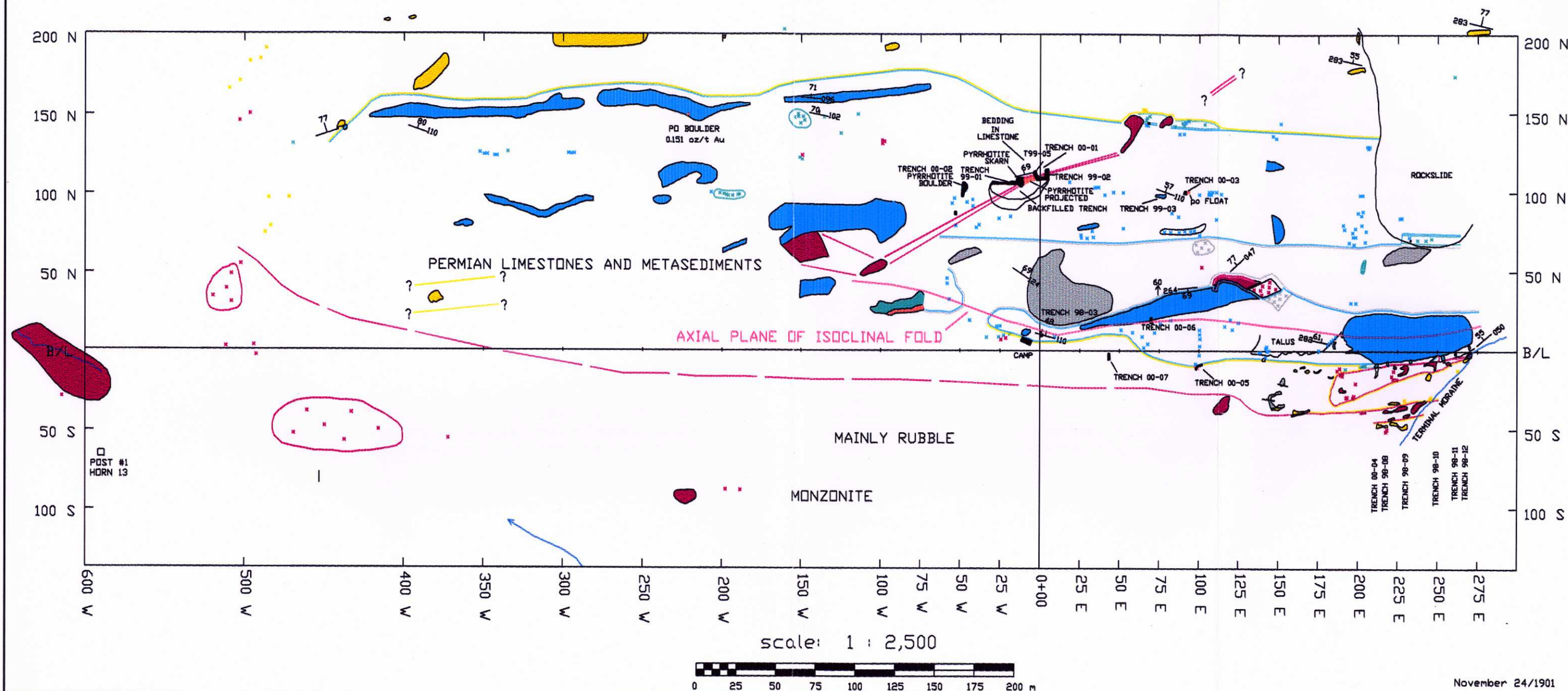


Plotted magnetic readings have 57,000 gamma deducted.

Canadian United Minerals Inc.  
Horn Claims - NTS Sheet 116-B-7  
Magnetometer Survey (Shawn Ryan) 1998



Mine Geology Services  
Whitehorse, Yukon.



November 24/1901

## LEGEND

|                     |                          |
|---------------------|--------------------------|
| LIMESTONE/MARBLE    | MASSIVE SULPHIDES/OXIDES |
| METASEDIMENTS       | "MONZONITE"              |
| HORNFELS            | BLACK QUARTZITE          |
| CALC-SILICATE SKARN | BOULDER/SMALL OUTCROP    |

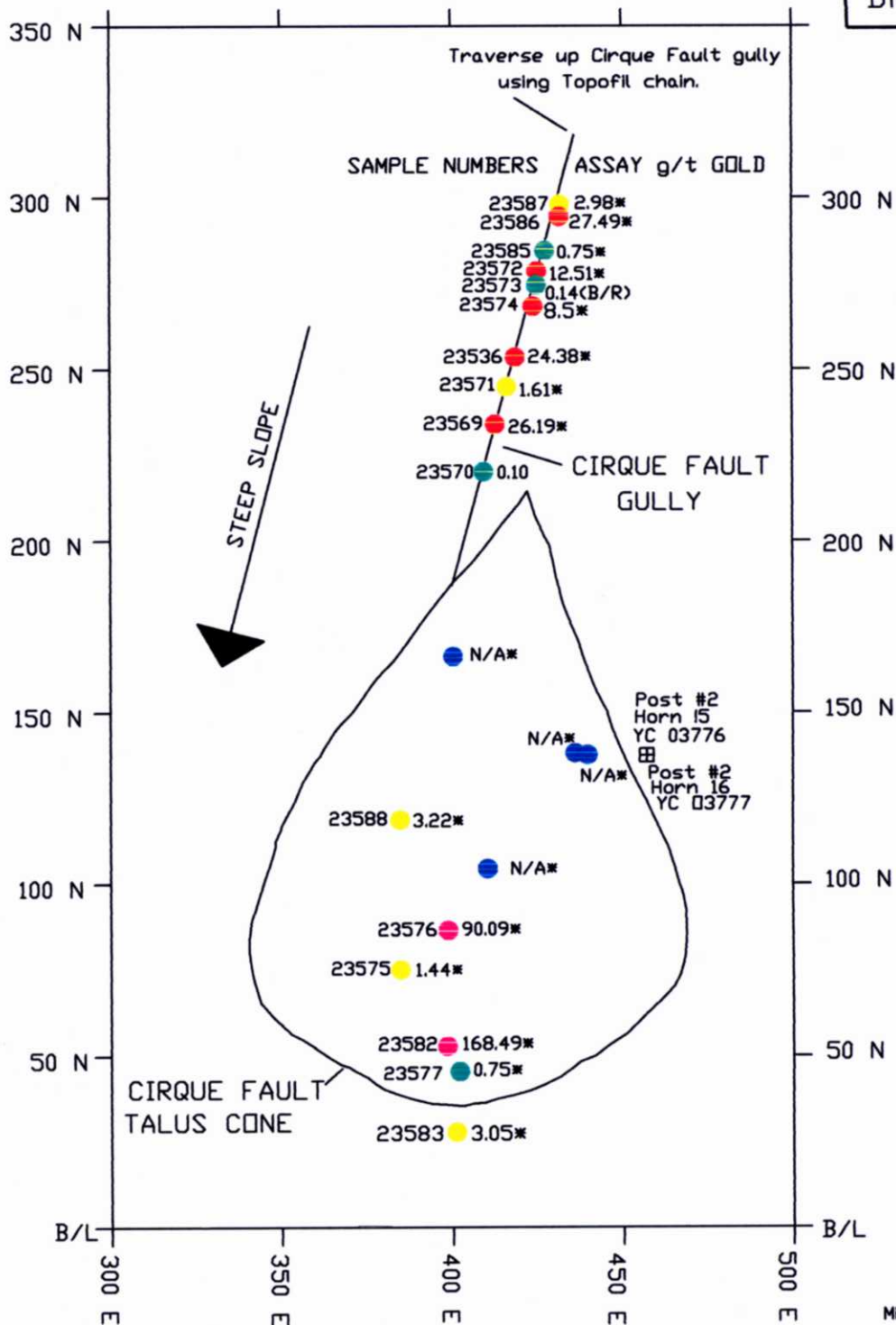
NOTE: SOME BOULDER TRAINS INTERPRETED AS OUTCROP.

Canadian United Minerals Inc.  
 Horn Claims - NTS Sheet 116-B-7  
 Geological Mapping - D. Tenney 1999 - 2001



Mine Geology Services  
 Whitehorse, Yukon.

N



Oct 25/2001

Mine Geology Services  
Whitehorse, Yukon.

SAMPLE LOCATION

23582 168.49\*

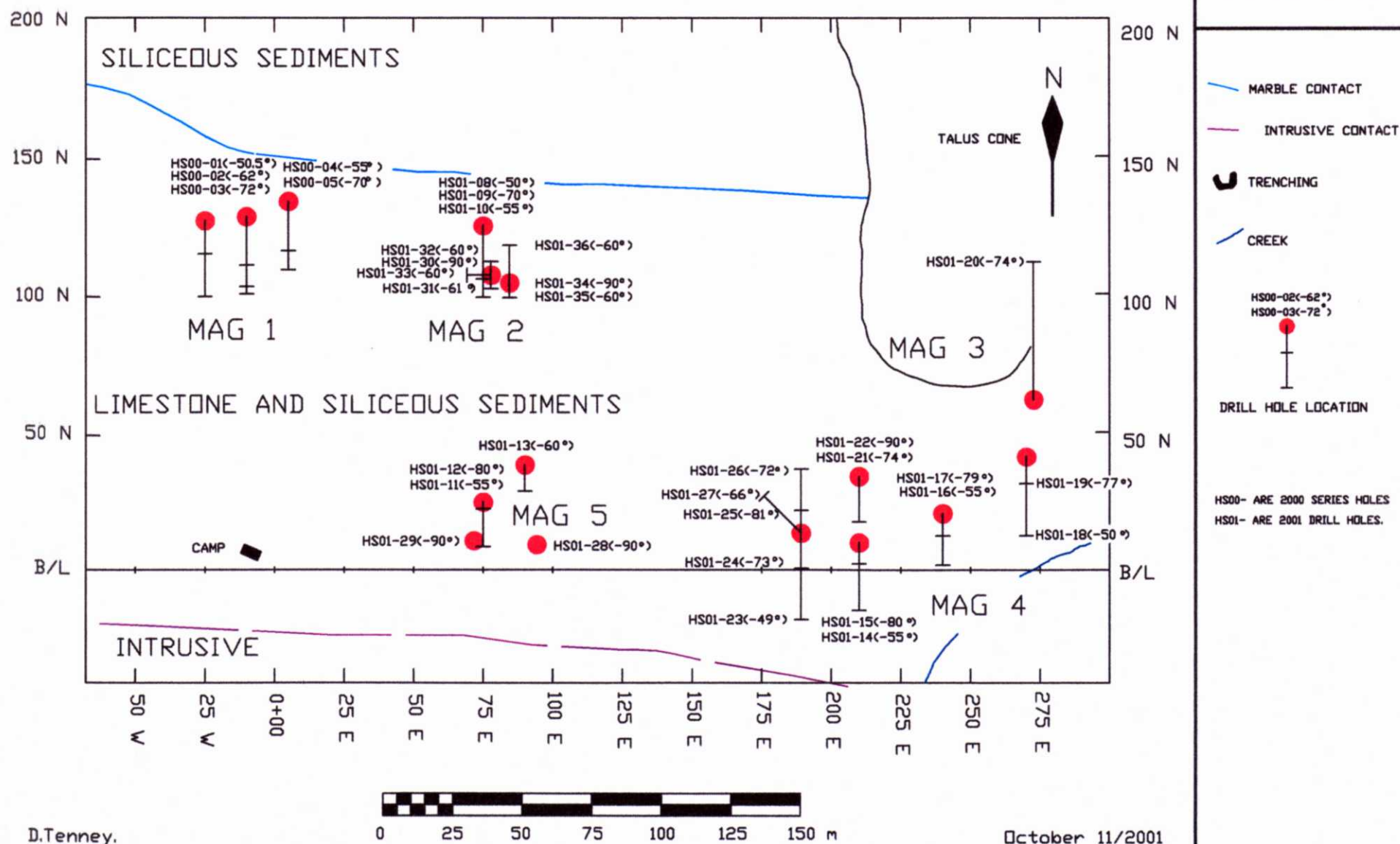
SAMPLE NUMBER ASSAY g/t Au

\* = gossan

Canadian United Minerals Inc.  
Horn Claims - NTS Sheet 116-B-7  
CIRQUE FAULT FLOAT SAMPLING 2001



- NOT ASSAYED
- 0 - 1 G/T GOLD
- 1 - 5 G/T GOLD
- 5 - 30 G/T GOLD
- 30+ G/T GOLD



Canadian United Minerals Inc.  
 Horn Claims - NTS Sheet 116-B-7  
 2000 - 2001 Diamond Drill Hole Locations



Mine Geology Services  
 Whitehorse, Yukon.

# DRAWING 18



- PYRRHOTITE SKARN
- MARBLE
- SILICATE SKARN
- INTRUSIVE

- CONTOURS
- TRENCHES
- DISTURBED
- TRAILS



CANADIAN UNITED MINERALS

Horn Claims  
Dawson Mining District  
Topography - Main Showing  
(FROM TAPE AND COMPASS SURVEY)

NTS SHEET 116 B-7

|             |          |            |                  |
|-------------|----------|------------|------------------|
| Drawn by:   | D.Terney | Date:      | FEBRUARY 24/2002 |
| Updated by: |          | File name: | Pit_topo2        |
| Scale:      | 1 : 250  | DRAWING    | 18               |

