



Blackstone Resources Inc.

**1997 DRILLING PROGRAM
ON THE REIN PROPERTY**

093750

Located near Lomond Creek
Mayo and Dawson Mining Districts
NTS 116A/12, B/9
64° 42' North Latitude
138° 05' West Longitude

-prepared for-

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SUMMARY

The Rein property, centred 95 kilometres northeast of Dawson, is located in the Taiga Basin in the west-central Yukon. The property, prior to the 1997 drilling, was comprised of 194 claims in three separate blocks. On the basis of the drill results, the total claim package has been expanded to 1043 claims in one contiguous block. Topography is gentle to moderate with local rugged terrain and mainly above tree-line. The Dempster Highway passes within five kilometres of the western claim boundary.

The project area lies within the Taiga Shale Basin, a 30 by 90 km, Ordovician to Mississippian clastic sub-basin of the Selwyn Basin, located within a shelf sequence north of the Dawson Thrust. The basin has been affected by a series of east-west striking, south-dipping thrust faults and open folds. Mafic volcanic and intrusive units of uncertain age (Middle to Late Paleozoic) occur within the project area.

The Taiga Basin, including the Rein property, was explored by UMEX in 1976 and 1977 for shale-hosted lead-zinc-barite deposits. UMEX completed detailed silt and soil sampling in the Rein area identifying extensive Zn geochemical anomalies and hydrozincite-coated shales, limestone and chert. In 1994, Blackstone Resources Inc. acquired UMEX's database, sample pulps and an option to acquire 75% of 16 Rein claims dating from 1976. Prospecting led to the discovery of the TB Showing, a thin bed of pyrite-vaesite which assayed 2.06% Ni with elevated Mo, Au and platinum group elements (PGE). In 1995, Blackstone re-analyzed 2,195 soil pulps from the Rein area and staked 178 more Rein claims to cover the TB Showing and strong, coincident, stratigraphically-controlled Ni-Mo-Zn-As geochemical anomalies. A geological mapping, prospecting and soil sampling conducted by Blackstone in 1996 led to the discovery of pyrite-vaesite mineralization at the DM Showing and defined extensive Ni-Mo-Zn-As-Pd soil anomalies on the TB and MM grids and ridge spur lines on the east claim block. Ni-bearing secondary mineralization was discovered on the MM grid in the footwall of a bedded barite horizon.

The 1997 exploration work consisted of drilling 12 BTW holes totalling 587 metres from nine widely spaced sites. The drilling was targeted at the DM and TB showings and the extensive Ni-Mo-Zn-As-Pd soil anomalies on all three claim blocks.

The drilling program was highlighted by the discovery of two Ni-bearing horizons situated above and below the bedded barite on the MM grid. These zones were intersected in two holes, REN97-07 and REN97-08. The highest grade mineralization, 1.41% Ni over 5.3 metres in hole REN97-08, is hosted in an extremely fossiliferous unit within a larger carbonaceous black shale unit which has a distinct baritic, nickeliferous and phosphatic signature. A similar black shale unit hosts the Ni mineralization beneath the barite horizon. Hole REN97-07 returned a weighted average of 0.26% Ni over 6.09 metres. This hole did not contain the Ni-rich fossil bed; better core recoveries are needed to determine if a stratigraphic pinch-out has occurred in this area. No Ni sulphide minerals were observed in either hole. Ongoing studies should determine what mineral species is the main contributor of Ni. The amount of secondary Ni mineralization is not sufficient to explain the higher Ni assays, one of which exceeds 2.0% Ni.

The Rein property hosts stratiform Ni-Mo-Zn-Au-PGE mineralization with metal suite, mineral textures and stratigraphic environment very similar to a newly-described class of high-grade, high-tonnage, poly-element deposits. The connection between the more typical pyrite-vaesite mineralization at the TB and DM showings, and that contained in holes REN97-07 and 08, remains to be determined, although they both appear to occupy a similar stratigraphic position in the Lower Earn Group. Of greater importance, the MM grid mineralization provides evidence that mineable thicknesses of Ni mineralization can occur, greatly enhancing the overall potential of the Rein property and the Taiga Basin.

An aggressive exploration effort is recommended for the upcoming field season. This program should continue the reconnaissance mapping, soil sampling and prospecting initiated in 1996 to complement continued drilling of the MM grid, existing soil geochemical targets on the east Rein claim block and other targets generated by the reconnaissance work.

1.0 INTRODUCTION

The Rein property is situated in the Taiga Basin, a shale sub-basin at the northwestern extremity of the Selwyn Basin, covering 2,200 square kilometres of the west-central Yukon and centred 95 kilometres northeast of Dawson on the Dempster Highway (Figures 1a and 1b). In 1994, Blackstone Resources Inc. acquired proprietary data and sample pulps from regional exploration programs carried out over the Taiga Basin from 1975 to 1977, along with an interest in 16 Rein claims dating from that time.

Reconnaissance prospecting around the existing Rein claims by Blackstone Resources in 1994 led to the discovery of a sulphide-rich bed within black shale which assayed 2.06% Ni, along with 454 ppm Mo, 30 ppb Au, 120 ppb Pt and 58 ppb Pd (TB Showing). Several widely-spaced soil samples also returned highly anomalous nickel, molybdenum and zinc values. Recognizing the area's potential for stratiform Ni-Zn-Au-PGE massive sulphide deposits, Blackstone selected 2,195 soil pulps and 62 rock pulps for ICP analysis and subsequently staked an additional 178 Rein claims over strong coincident Ni-Mo-Zn-As soil anomalies.

A geological mapping, prospecting and soil geochemical program was carried out by Blackstone Resources in 1996. This work program led to the discovery of similar pyrite-vaesite mineralization to the TB showing at the DM showing, defined extensive Ni-Mo-Zn-As-Pd soil anomalies on the TB and MM grids and ridge spur lines on the east claim block. Anomalous rock geochemistry of the same was found associated with barite horizons at the MM grid.

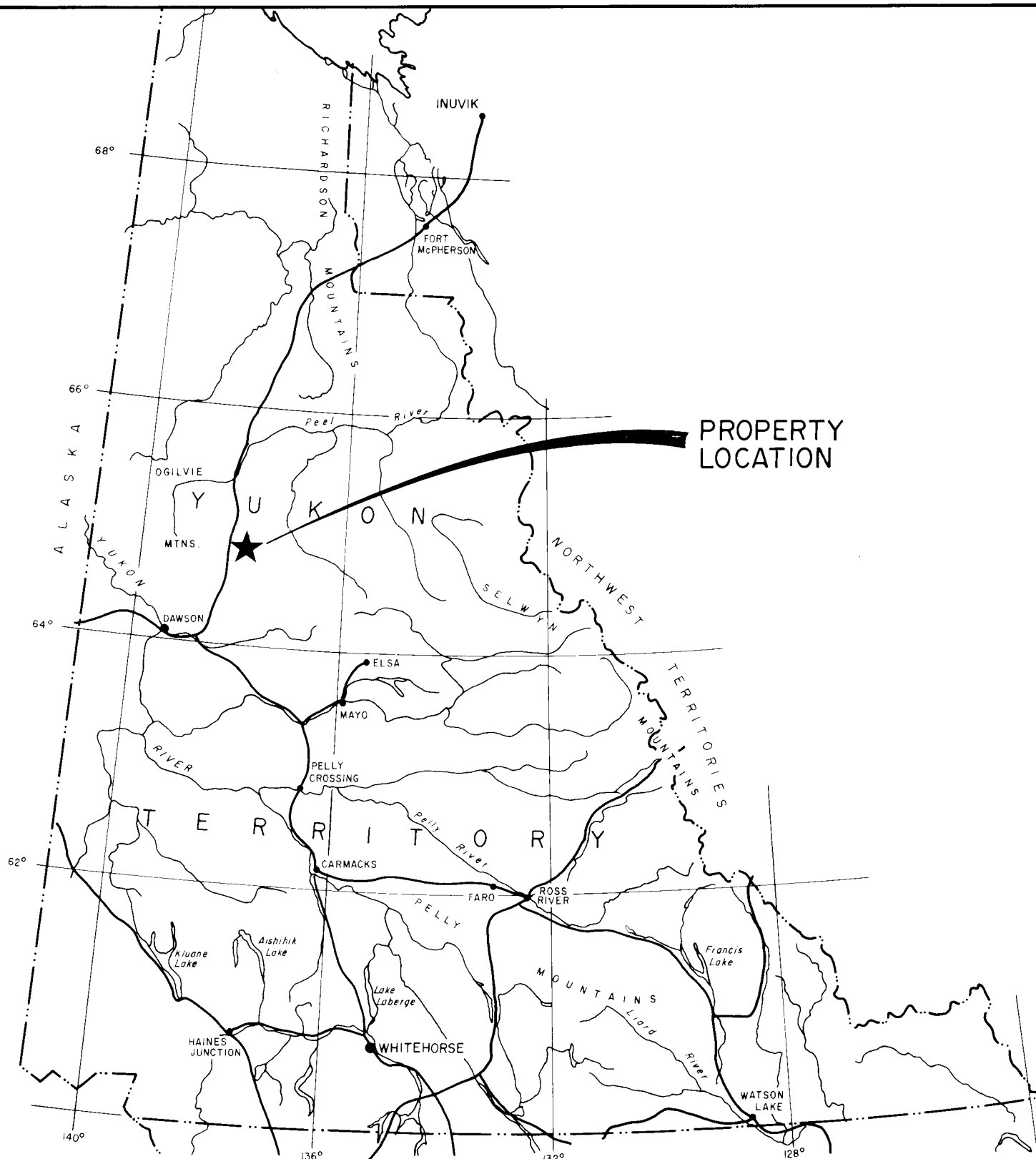
In August and September of 1997, Blackstone Resources Inc. conducted an exploration program on the Rein property consisting primarily of diamond drilling. Minor reconnaissance work was completed at the TB grid. This work was completed by Equity Engineering Ltd. which has also been retained to report on the results of the fieldwork.

2.0 LIST OF CLAIMS

The Rein property comprised three blocks of contiguous claims totalling 194 claims prior to the 1997 drill program. Based on the favourable drill results, the property was expanded by the staking of the RC 1-59, 61-168 and MC 1-682 claims to bring the total number of claims to 1043. The claims, excluding the most western RC claims, are located in the Mayo Mining District (Figure 2). The western RC claims are located in the Dawson Mining District. New claim maps have not been issued for the Mayo Mining District, therefore, the boundary shown on Figure 2 has been approximated from staking sketches. Claim data for the Rein property is summarized in Table 2.0.1. The expiry dates listed are subject to approval of assessment work covered by this report.

TABLE 2.0.1
CLAIM DATA

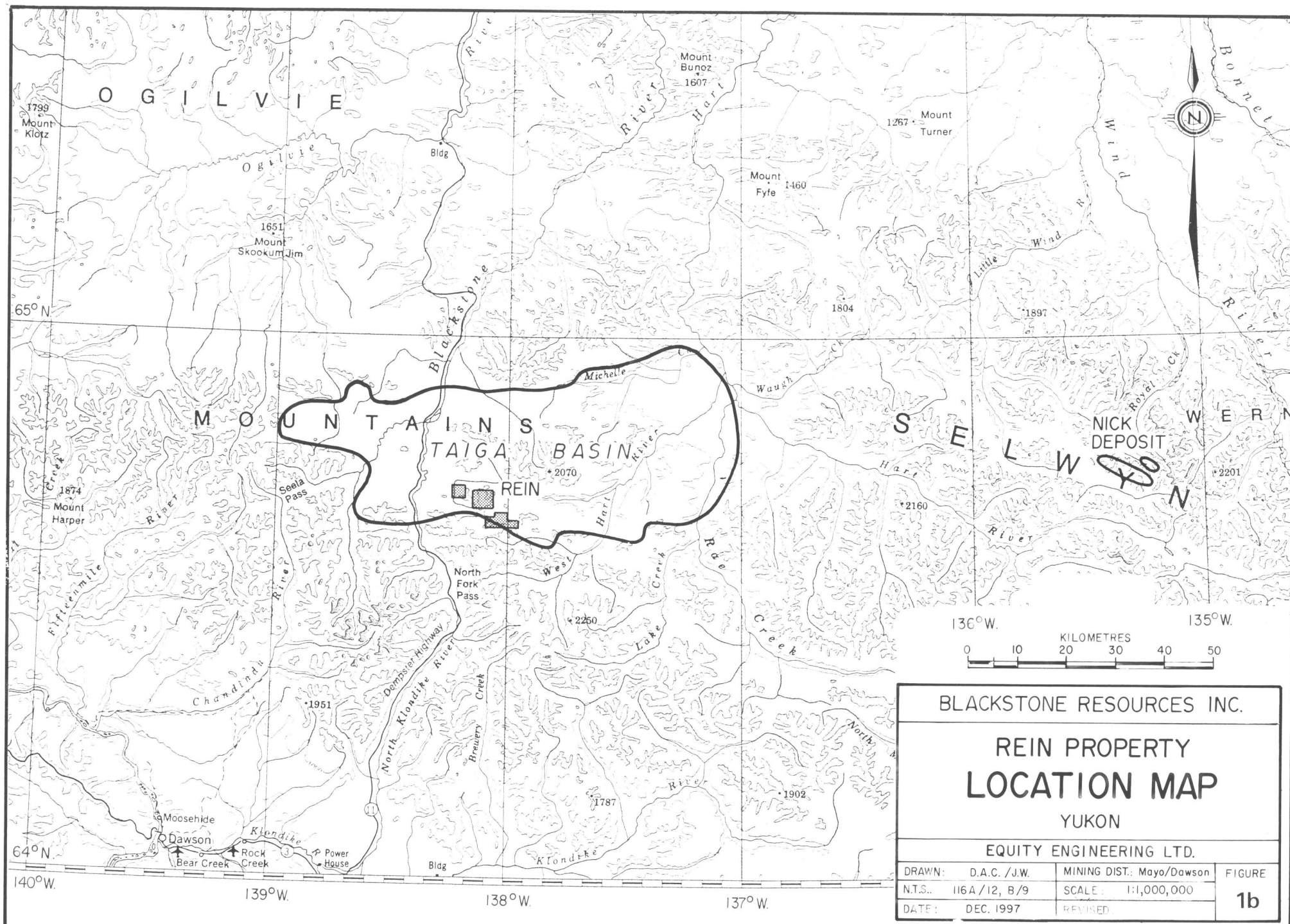
Claim Name	Grant Number	No. of Claims	Record Date	Expiry Date
Rein 9	YA05733	1	July 14, 1976	December 31, 2002
Rein 11-12	YA05735-36	2	July 14, 1976	December 31, 2002
Rein 27	YA05751	1	July 14, 1976	December 31, 2002
Rein 29	YA 05753	1	July 14, 1976	December 31, 2002
Rein 35-40	YA05759-64	6	July 14, 1976	December 31, 2004
Rein 49-50	YA05773-74	2	July 14, 1976	December 31, 2004
Rein 60	YA06488	1	August 27, 1976	December 31, 2004
Rein 62	YA37922	1	August 14, 1976	December 31, 2004
Rein 76	YA37920	1	August 14, 1976	December 31, 2002

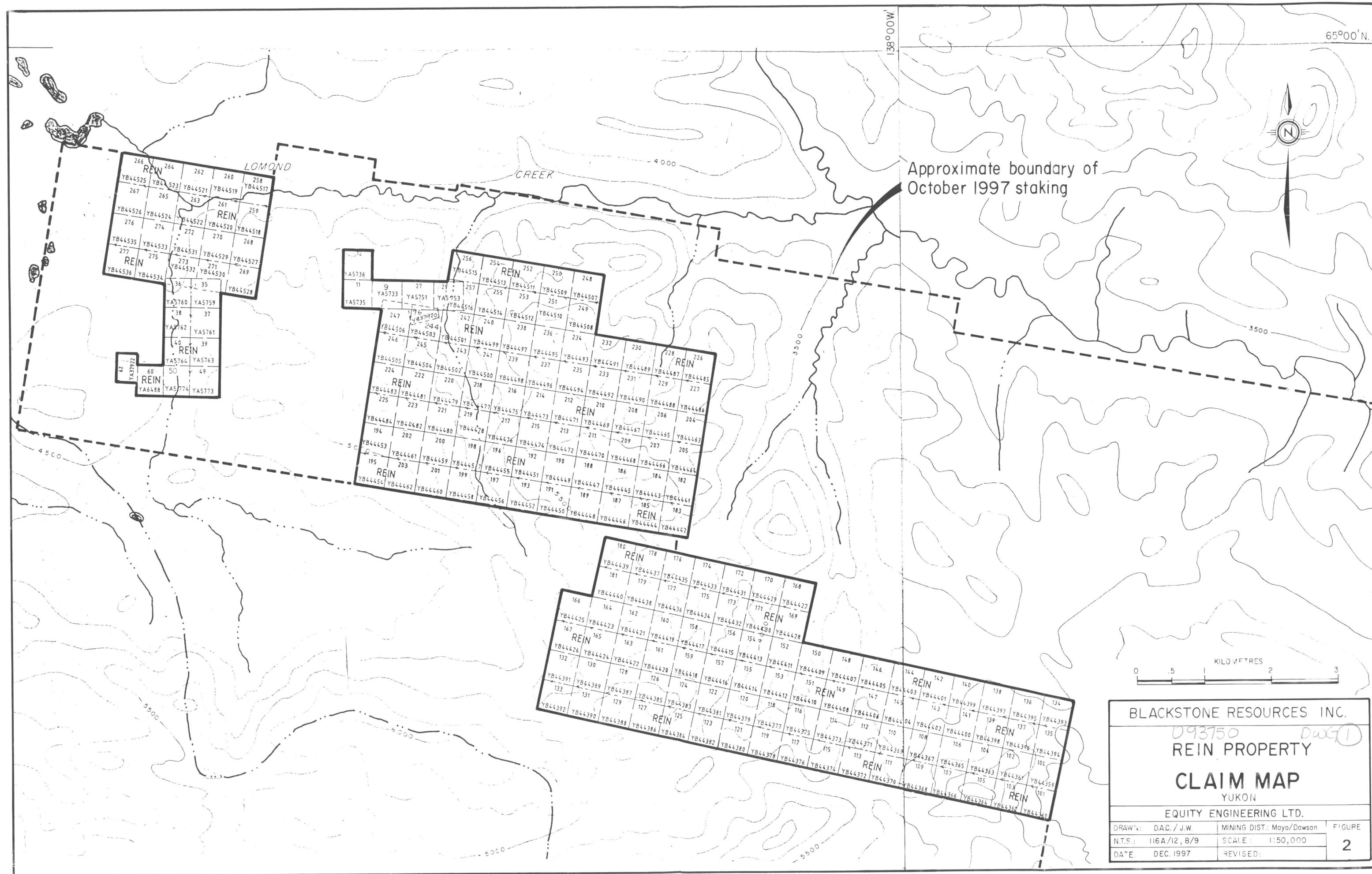


PROPERTY
LOCATION

BLACKSTONE RESOURCES INC.		
REIN PROPERTY PROPERTY LOCATION MAP YUKON		
EQUITY ENGINEERING LTD.		
DRAWN: J.W./D.A.C.	MINING DIST.: Mayo/Dawson	FIGURE 1a
N.T.S.: 116A/12, B/9	SCALE: 1:5,000,000	
DATE: DEC. 1997	REVISED:	







BLACKSTONE RESOURCES INC.		
093750 DWG 1		
REIN PROPERTY		
CLAIM MAP		
YUKON		
EQUITY ENGINEERING LTD.		
DRAWN: DAC./J.W.	MINING DIST: Mayo/Dawson	FIGURE
N.T.S.: 1:66,12, B/9	SCALE: 1:50,000	2
DATE: DEC. 1997	REVISED:	

TABLE 2.0.1 cont'd
CLAIM DATA

Claim Name	Grant Number	No. of Claims	Record Date	Expiry Date
Rein 100-257	YB44359-516	158	May 10, 1995	December 31, 2002
Rein 258-277	YB44517-36	20	May 10, 1995	December 31, 2004
		194		

3.0 LOCATION, ACCESS AND GEOGRAPHY

The Rein property is located in the Puddingstone Range of the Ogilvie Mountains of west central Yukon, centred 95 kilometres northeast of Dawson (Figures 1a and 1b). The area is centred at 64° 42' north latitude and 138° 05' west longitude.

Topography in the area of the Rein property is gentle to moderate, with local areas of more rugged terrain. Elevations range from 915 metres along Lomond Creek to over 1800 metres on an unnamed peak south of the east Rein claim block. The area is mostly above tree line, covered by alpine grasses and shrubs. Scrub spruce is found at lower elevations along Lomond Creek. The Rein claims lie 6 to 21 kilometres east of the Dempster Highway. The new staking stretches the claim coverage 38 kilometres to the West Hart River. Outcrop exposure is variable depending on steepness of terrain; the tracing of lithological units may be accomplished by mapping felsenmeer exposures exposed along mountain ridge and spurs. Permafrost is developed in poorly drained north facing slopes and in valley bottoms covered by thick moss accumulations.

The area has a continental climate with low levels of precipitation and a wide temperature range. Summers are typically pleasant with long daylight hours whereas winters are long and may be extremely cold. Most of the snow cover will have disappeared by the start of June and may return by the middle of September.

The 1997 exploration was conducted from a helicopter-serviced base camp located in the western Rein claim block (7181350N, 633500E). Mobilization and demobilization was carried out from a gravel pit along the Dempster Highway, near Two Moose Lake.

4.0 REGIONAL AND PROPERTY EXPLORATION HISTORY

The Rein property was staked as a result of a regional exploration program conducted by the Blackstone Joint Venture. The Blackstone Joint Venture was formed in 1975 by Union Miniere Explorations and Mining Corporation Limited (UMEX), the operator, and Shell Canada Resources Ltd., to explore 26,000 km² of the west-central Yukon (Figure 1b). In 1975 and 1976, UMEX carried out regional silt sampling from selected parts of the joint venture area. The 1975 work was targeted at sedimentary copper (Zambian Copperbelt-type), stratiform zinc-lead (Sullivan-type) and Mississippi Valley-type deposits within windows of Proterozoic sediments to the east and west of the Taiga Basin (Dyson, 1975). The emphasis in 1976 shifted to Paleozoic Road River and Earn Group strata, searching for shale-hosted zinc+lead+barite deposits similar to those being discovered elsewhere in the Selwyn Basin. UMEX collected 5,836 silt samples in 1976, mostly from the Taiga Basin, and analyzed them for copper, lead and zinc; every third sample was analyzed for uranium. Soil grids were established on the Rein and Shay claims; the new Rein claims cover a portion of the lapsed Shay claims. A total of 692 soil samples were collected at this time and analyzed for lead and zinc.

The 1977 Blackstone JV exploration within the Taiga Basin focused on the belt of zinc geochemistry and barite occurrences extending 23 kilometres east from the Rein to the Shay claims.

UMEX took 3,848 soil samples from this belt, generally at 61 metre (200') intervals along lines 305 metres (1000') apart, identifying extensive zinc anomalies generally without correspondingly elevated lead values. These claims were mapped at a scale of 1:16,000, and reconnaissance EM-16 and horizontal loop EM surveys were completed on the Rein claims. No stratiform sphalerite or galena was found; the widespread stratabound hydrozincite was attributed to surface precipitation of zinc leached by groundwater from background concentrations in black shales (Burgoyne, 1977).

With the Taiga Basin's potential for sedimentary exhalative zinc-lead mineralization down-graded, UMEX's exploration emphasis shifted towards the Rein barite occurrences as a potential source for drilling mud. Initial studies on the grade and marketability of the barite were carried out in 1977. Following trenching and detailed sampling programs in 1978 (Burgoyne and Tolbert, 1978), the property was optioned to Milchem Incorporated of Houston, Texas. In late 1979 and early 1980, Milchem did trenching, road building and percussion drilling (21 holes; 906m) on the barite showings. In 1981, the barite showings were re-examined and sampled by Dome Petroleum Limited. No further work was recorded by the Blackstone Joint Venture. Their Taiga Basin claim groups were all allowed to lapse except for 16 Rein claims.

The East Barite and part of the Cliff Barite showings, adjacent to the Rein claims, were staked by Getty Mining Pacific Limited in 1976 to cover zinc, copper and uranium stream sediment anomalies. Getty performed soil and rock geochemical sampling in conjunction with geological mapping in 1976 and 1977. All their claims have lapsed.

The 16 Rein claims, UMEX's database and several thousand silt, soil and rock sample pulps from the Blackstone JV were purchased by Major General Resources Ltd. in 1989. Placer Dome acquired an option on the database and geochemically analyzed every third silt sample for gold and a suite of elements. Placer Dome subsequently relinquished their option and returned the database to Major General.

Blackstone Resources Inc. optioned the Rein claims in 1994, acquiring the Blackstone JV database and pulps in return for a back-in right on new claims. Blackstone carried out one day's mapping and prospecting on the Rein property in July 1994, taking 30 rock samples and 9 soil samples. One of the rock samples, taken from pyritic black shale, assayed 2.06% Ni with 454 ppm Mo, 35 ppb Au, 120 ppb Pt and 58 ppb Pd (TB Showing). The soil samples, taken along 2.5 kilometres of strike length below and above a baritic horizon, returned highly anomalous nickel, molybdenum and zinc values (Baknes, 1995).

Recognizing a common metal assemblage and strong similarities in mineral textures and stratigraphy to the Nick stratiform Ni-Zn-Au-PGE deposit located 100 kilometres to the east, Blackstone selected 2,195 soil and 62 rock pulps from UMEX's library for 32-element ICP analysis in early 1995. No analysis could be made for Pd-Pt values for these pulps due to a lack of sample material. In May 1995, Blackstone staked an additional 178 Rein claims on the basis of strong Ni-Mo-Zn-As soil anomalies and UMEX's geological mapping.

In 1996, an exploration program consisting of geological mapping, prospecting and soil sampling was conducted over a three week period in June and early July. The program resulted in the discovery of pyrite-vaesite mineralization at the DM showing and defined extensive Ni-Mo-Zn-As-Pd soil anomalies on the TB and MM grids, and along ridge spur lines on the east claim block (Caulfield, 1997).

5.0 1997 EXPLORATION PROGRAM

Twelve BTW diamond drill holes totalling 586.7 metres (1925') were drilled from nine sites in August and September, 1997. Core was logged by the author and Charles Baker, geologist. The core was split and analyzed for Au, Pt, Pd and Ba plus 32 elements by ICP geochemistry (Appendix E). Overlimit Ni and Zn results were also assayed. All core was removed from the site and stored in a trailer

at TNTA's hangar in Dawson. Drill logs are attached in Appendix F. Drilling was efficiently carried out by Falcon Drilling Ltd., of Prince George, B.C., using their F-1000 fly drill.

Three rock samples were collected from the western Rein claim block. Field locations are marked by metal tag and a combination of pink and blue flagging. Samples were shipped to Chemex Labs to be analyzed for the same elements as the core. Rock sample descriptions, analytical procedures and complete results are included in the appendices (Appendix D and E). A magnetic declination of 29° 44' east of true north was used for all compass work.

6.0 REGIONAL GEOLOGY

Reconnaissance geological mapping of the Dawson and Larson Creek 1:250,000 map sheets (116A,B) was carried out by the Geological Survey of Canada from 1961 to 1966 (Green, 1972). The most recent government mapping was released in 1995 by R. I. Thompson and others of the Geological Survey of Canada (Open File 2849). Their work included mapping of twelve 1:50,000 sheets on 116A and 116B, including the Rein area on 116B/9. Their mapping shows very little detail in the Rein area and there are inconsistencies between fossil identification (Devonian dates) and the assignment of these rock units to Road River Group. Therefore, the earlier 1972 map was used as a base for Figure 3. Regional mapping by DIAND at 1:50,000 scale of map sheets 116A/10 and 116A/11 confirms Green's mapping, correlates his units to nomenclature used elsewhere in the Yukon and demonstrates much more complex imbricate thrust faulting than previously recognized (Abbott, 1993; Abbott and Roots, 1993a,b). In the western part of the map, there is a transition from the Mackenzie Platform shelf sequence to the north and off-shelf sediments of the Selwyn Basin to the south (Figure 3). The shelf sequence consists of Middle Proterozoic through Middle Paleozoic clastic, carbonate and volcanic rocks; the off-shelf sequence comprises Late Proterozoic to Middle Paleozoic clastic and volcanic rocks. In the Rein area, both the underlying Ordovician platform carbonates and overlying off-shelf or basinal rocks clastics are preserved north of the Dawson Thrust, unconformably overlying Proterozoic strata to the north, east and west. Cambrian strata were probably removed by erosion. In both areas, the two assemblages are separated by the Dawson Fault, the most prominent of a series of northerly-directed thrusts produced by Mesozoic compression. Thompson and Roots (1982) suggest that the Dawson Fault may have been a reactivated extensional fault, citing the abundance of Early to Middle Paleozoic mafic volcanics along it. The Taiga Shale Basin is a 30 x 90 kilometre, Ordovician to Mississippian clastic sub-basin of the Selwyn Basin, located within the shelf sequence and bounded to the south by the Dawson Fault.

The oldest stratigraphic units in the region are Proterozoic Wernecke Supergroup shelf assemblage strata, consisting of dolomite-dominant lithologies (**Unit 2**) of the Gillespie Lake Group and siliciclastics (**Unit 1**) of the Quartet and Fairchild Lake groups. These units have been penetrated by specular hematite-bearing breccias hosting Cu-Co-Au mineralization, and cut by mafic sills and dykes. Exposures of these rock types are found north, east and west of the Taiga Basin. The Wernecke Supergroup shelf strata are unconformably overlain by Late Proterozoic grits, limestone and shale of the Fifteenmile Group (included on Figure 3 within Units 1 and 2). Slivers of Late Proterozoic Windermere Group dolomitic diamictite and siliciclastics have also been included in Unit 2.

South of the Dawson Fault, **Unit 3** comprises Late Proterozoic and Early Cambrian grits, limestones and shales of the off-shelf Hyland Group. In the vicinity of the Taiga Basin, **Unit 4** contains mafic volcanic units of Cambrian to Ordovician (or possibly Devonian) age (Abbott, 1993).

North of the Dawson Fault, thick-bedded Ordovician to Silurian dolostone (**Unit 8**), locally with thin mafic tuff horizons, is regionally extensive and forms prominent outcrops. It is conformably overlain by recessive, black, graptolitic shale and chert of the Ordovician-Silurian Road River Group (**Unit 9**). Portions of Unit 13 have also been re-mapped as Road River Group by Abbott (1993). The Road River strata are similar on both sides of the Dawson Fault: blue-grey weathering, noncalcareous shales with thin beds of black to dark grey chert and argillaceous chert. Further north in the Taiga Basin, the Road

River is characterized by black calcareous shale. Mafic sills and volcanics are intercalated with, or overlie, the Road River Group shales near the Dawson Fault; they may be diachronous with the mafic sills in Unit 8, fifteen kilometres to the north (Abbott, 1992).

Recessive, poorly exposed, light brown to blue weathering chert, silver-blue siliceous shale, black shale, sandstone and minor chert grit (**Unit 13**) have been tentatively correlated to the Devonian-Mississippian Earn Group by Abbott (1992). Near Lomond Lake, Unit 13 is capped by a laterally extensive band of chert pebble conglomerate. The Earn Group is conformably overlain by 700 metres of Mississippian to Permian limestone with minor chert pebble conglomerate, chert, shale and quartzite (**Unit 14**), followed by thick-bedded limestone and chert of the Permian Tahkandit Formation (**Unit 15**).

7.0 PROPERTY GEOLOGY

No mapping was conducted during the 1997 program. The following description has been abridged or summarized from the 1996 Rein report (Caulfield, 1997). Selected areas of the Rein property were mapped at a scale of 1:10,000 during the 1996 program (Figures 4 and 5). Table 7.0.1 lists the map units, their descriptive elements and correlation to Green's (1972) map units.

TABLE 7.0.1
STRATIGRAPHIC COLUMN

Middle to Upper Devonian

Lower Earn Group

DLEu (Green Unit 13) Upper member - chert, cherty argillite, chert pebble conglomerate, barite: red and yellow ochre stained, silvery grey outcrops

- chert and cherty argillite are thin to medium-bedded, wavy to planar bedded, distinctive thin shaley interbeds, may contain thin limy lenses
- pebble chert conglomerate caps upper member, forms black resistant outcrops; thick massive bedded with interbeds of light grey siltstone and sandstone

DLEba Barite horizon: resistant light grey outcrops, bedded, up to 30 m thick, fetid, carbonaceous (up to 25% organic carbon) and calcareous, may contain spherical rosettes of barite at base of section, laminated at top, X-ray and thin section studies by UMEX indicate a mineralogy of barite, baritocalcite, calcite and carbonaceous matter

- the Ni-sulphide horizon correlates stratigraphically with this unit
- baritic, carbonaceous shale encountered above and below the barite in 1997 drilling on the MM grid included with this unit

DLEI (Green Unit 12) Lower member - argillite, calcareous shale and siltstone, limestone and chert: intensely fractured, weather dark grey-olive brown, may have ribbed weathered surface due to thin-bedded, rhythmic section of alternating calcareous and clastic units; an overall decrease in carbonate content up section, strong gypsum, calcite and hydrozincite coatings; abundant tentaculites, styliolina fossils noted by UMEX

- upper section is comprised of interbedded siliceous black shale and chert containing peculiar limestone and limey barite balls up to 1.0 m in diameter

Dmv (Green Unit 20?) mafic volcanic, diorite: brown weathering, blocky fractured

- dark green, volcanic unit mapped north of the thrust at eastern end of eastern Rein claim block
- medium-grained, dark green gabbro to diorite outcrop noted east of Rein claims in 1995

CONFORMABLE CONTACT

Ordovician to Silurian

Road River Group

ORsh (Green Unit 9) shale: dark grey to black, papery thin to platy, calcareous and carbonaceous, exposed along the West Creek, contains graptolites

TABLE 7.0.1 cont'd
STRATIGRAPHIC COLUMN

UNCONFORMABLE - DAWSON THRUST

Upper Proterozoic and Lower Cambrian

Hyland Group

PCHph (Green Unit 3) laminated phyllitic siltstone and shale: alternating light to medium grey with patchy rust stained exposures, foliated

PCHmv (Green and Roddick Unit 20?) mafic volcanic: light brown weathering, blocky fractured, light green, fine- to medium-grained, amygdaloidal, pillowed, nonmagnetic, trace pyrite

- pseudo-concretions of argillite and limestone noted by UMEX

Units ORsh and DLEI do not outcrop well with exposures found along creek cuts and steeper slopes; the contrasting competencies of the lithologies comprising these members have fractured intensely during thrusting. Unit DLEu, being more siliceous, caps many of the ridges. The chert-pebble conglomerate forms distinctive craggy hoodoos, examples of which are exposed at the top of the cirque at the eastern end of the Rein property. Units DLEba, Dmv, PCHmv and PCHph are noted by their colouration or fracturing patterns. Unit PCHmv has been classified as part of the Hyland Group due to its apparent location within foliated sedimentary strata of this group. However, the close association of this unit with thrust structures and the lack of any structural fabric are unusual, perhaps suggesting that the volcanic unit may be younger. It is the association of these mafic flows with the Dawson thrust which led Thompson and Roots (1982) to believe the Dawson Thrust is a re-activated rift structure.

Detailed stratigraphic sections were not measured although some general observations can be made. First, the proportion of chert pebble conglomerate in unit DLEu shows a general increase to the east. The thickness of Unit DLEI, as determined by UMEX in the West Creek stratigraphic section (Figure 4), is approximately 90 metres. Barite of Unit DLEba varies from centimetre scale laminations to 30 metres thick. The thickest sections of bedded barite are found at the RF, MM, Ridge and Cliff showings and on the ridge on the west side of the east Rein claim block. The 1997 drilling on the MM grid (holes REN97-07 and -08) has shown the presence of a previously unrecognized, soft, black carbonaceous shale unit on top of the barite horizon. The unit is characterized by its high nickel, phosphorus and barium values and the unusual presence of baritic limestone balls and fossil-rich beds. On the basis of these features and its stratigraphic position, this unit has been included in Unit DLEba. The thickness of units DLEu, ORsh and PCHph are not known as neither the tops nor bottoms of these units were mapped.

The difficulty in mapping on the Rein property is in differentiating the clastic and carbonate rocks of units ORsh, DLEI and DLEu. Table 7.1.2 lists the diagnostic features used to distinguish the three units during the 1996 program.

TABLE 7.0.2
DIAGNOSTIC FEATURES OF UNITS ORsh, DLEI and DLEu

	ORsh	DLEI	DLEu
Weathering characteristics	Papery thin to platy, dark grey to black	Intensely fractured, dark grey to olive brown	Silvery grey with red and yellow ochrous staining
Presence of hydrozincite, gypsum, calcite coatings on fractures	Present	Abundant	Rare
Calcareous component	Yes	Yes, although decreasing in upper part of section	None observed
Chert pebble conglomerate	None observed	None observed	Yes
Fossils	Graptolites	Tentaculites, styliolina	None observed
Limestone or barite balls	None observed	Barite and limestone balls at top of section, UMEX noted calcareous concretions at bottom of section	None observed

Fossil identification for unit DLEI on the Rein property constrains the lower limit for the age of Ni-sulphide and barite mineralization on the Rein property to an Eifelian age (Green, 1972; Thompson et al, 1995). No fossils were identified for the hanging wall strata (DLEu) in the immediate area of the Rein property, however, fossils collected from the lower part of Unit 13 (or DLEu), 25 km north-northeast of the Rein property at Michelle Creek, provided a lower Middle Devonian age (Eifelian) (Green, 1972). Therefore, the age of Rein Ni-sulphide mineralization is most likely Eifelian (380-387 Ma). Preliminary age determinations for conodonts extracted from limestone balls in the immediate footwall of the mineralization at the Nick property (Hulbert et al., 1992) suggests a Givetian-Frasnian (367-380 Ma) age, a somewhat younger age than that found at the Rein property. Conodonts extracted from a Ni-sulphide bed on the Peel River are Eifelian in age (Goodfellow et al., 1996). Graptolite-and conodont-bearing strata of unit ORsh have returned Llanvirnian age (468-478 Ma), or Middle Ordovician, putting this unit within the Road River Group.

The Rein property is affected by a series of east-west trending, south-dipping, thrust faults (Figures 4 and 5). The southernmost of these, the Dawson Thrust Fault, juxtaposes Hyland Group strata against the Paleozoic Road River and Earn groups of the Taiga Basin. Smaller displacement thrust faults to the north generally thrust incompetent units ORsh and DLEI over more competent unit DLEu. This has resulted in as many as ten repetitions of the favourable DLEI-DLEu stratigraphic contact on the Rein claims. The thrust faults are not well exposed; their presence was largely inferred from stratigraphic relations. Where observed, as on the eastern side of the east claim block they are marked by up to 30 metres of shearing and contorted folding grading outwards to relatively undisturbed rocks. The thrust faults are accompanied by east-west trending open folds and north-south fractures. Although there are a number of stratigraphic repeats, there is no evidence that the strata is overturned as a result of tight folding.

7.1 Mineralization

Four types of mineralization had been identified previously on the Rein property: (1) extensive hydrozincite coatings on units ORsh and DLEI, (2) quartz-calcite-barite veining including quartz-sulvanite, barite-pyrite, quartz-tetrahedrite and quartz-calcite-sphalerite-galena veining, (3) vaesite-pyrite stratiform massive sulphides and (4) bedded barite. In 1994, prospecting sample 596656 was taken from a thin bed of sulphide-bearing shale (TB Showing) near the northwest end of the Rein property

(Figure 4). The discovery sample assayed 2.06% Ni and 5.52% organic C along with 454 ppm Mo, >10,000 ppm P, 35 ppb Au, 120 ppb Pt and 58 ppb Pd. In 1996, the discovery sample site was found and re-sampled over its 45 cm width, returning 84 ppb Au, 340 ppb Pt, 160 ppb Pd, 2330 ppm As, 853 ppm Mo, 3.58% Ni, >10,000 P and 202 ppm Zn (#44365). The lens reaches a maximum thickness of 45 cm but pinches over 1.5 m.

A second occurrence (DM Showing) of Ni-sulphide mineralization was found 450 metres south of the TB Showing on the east bank of West Creek (Figure 4). The Ni sulphide horizon reaches a thickness of 6.0 cm, with geochemical values of 100 ppb Au, 560 ppb Pt, 244 ppb Pd, 2770 ppm As, 1635 ppm Mo, >10,000 P, 136 ppm Zn and 5.21% Ni assay. At this showing and other occurrences on the Rein property, the presence of nickel is marked by green annabergite ($\text{Ni}_3(\text{AsO}_4) \cdot 8\text{H}_2\text{O}$), or nickel bloom.

Further Ni-sulphide mineralization was discovered in 1996 on the MM grid in two different structural panels. In the upper panel at the east end of the grid (#44381-383) and in the lower panel (#44393, #44394), the Ni occurrences are very similar to those at the TB and DM showings, though metal values were lower overall. At both locations, the zone has been strongly weathered and no sulphides were seen which may account for the lower values. Through the central part of the grid, a rusty layer spotted with annabergite, occurs at the lower contact of the barite bed with a calcareous shale exhibiting limestone and barite balls. This horizon was sampled at four different locations (#44385, #44388, #44390, #44391) returning elevated gold, PGE's, Ni, Mo, As and Zn at each sample site. The elevated zinc at all of the MM grid occurrences distinguishes these from the low zinc values at the TB and DM showings. It was postulated that there may be a second Ni-bearing horizon above the barite, as limestone balls and anomalous soil geochemistry occur up slope from the barite bed (Caulfield, 1997). The presence of an upper Ni-bearing horizon was substantiated this year by the sample results returned from holes REN97-07 and REN97-08 (see Section 8.0). Stratigraphic sampling of the RF Showing in 1996 also indicated the presence of two Ni horizons.

Fine-grained, disseminated and framboidal pyrite was noted in concentrations up to 7% in the lower part of unit DLEu on the RF grid, not far above where the Ni-sulphide layer should occur. Sampling in 1996 failed to return anomalous Ni, Mo or PGE values (#44369, #44375, #3901). One sample (#3868), taken within unit DLEu, did return weakly anomalous PGE's (8 ppb Au, 5 ppb Pt, 14 ppb Pd) with no corresponding enrichment in Ni, Mo, and Zn, although As (164 ppm) and P (>10,000) are elevated. In 1997, similar pyritic material was discovered in cherty units of DLEu in holes REN97-01 and REN97-02 and in a creek cut south of drill camp (#3909-3911, Figure 4). In the holes and surface samples, anomalous PGE's and P values were encountered with no particular enrichment in Ni and Mo. From hole REN97-02 and the three surface samples, there appears to be a zone of anomalous Zn +/- Pb higher in the pyritic sequence.

On the east side of the TB grid, the area of anomalous Pb-Zn soil geochemistry on the south part of L5600E was examined to find the source of the anomalous soil geochemistry. No definitive source for the geochemistry was found despite reasonable rock exposure in the area. The area is underlain by intensely fractured unit DLEI which has been shown to be anomalous throughout the Rein property. In the area, rare quartz-sulvanite veining was noted as well as more abundant quartz-calcite veining. Although no Pb-Zn sulphides were identified in these veins, it may be that these veins contain Pb-Zn mineralization similar to a calcite vein with sphalerite and galena found on the east side of the creek in 1996.

In 1996, two Ni-bearing samples (#3856 - 2990 ppm, #3857 - 2320 ppm) were collected 600 metres south of the DM Showing. This year, an examination of the sample locations revealed the samples were taken from a fault structure (010°/80°W) cutting siliceous shale and limestone of unit DLEI. Green, presumably Ni-bearing, secondary minerals coat the fault surface.

8.0 DIAMOND DRILLING

Three areas were targeted during the 1997 drill program: (1) three holes were drilled on the west Rein claim block in the vicinity of the TB and DM showings, (2) seven holes on the MM grid in the central claim block and (3) 2 holes on the western part of the east Rein claim block. These holes are widely spaced reconnaissance holes utilizing nine sites over a distance of 10 kilometres. Table 8.0.1 summarizes location, orientation, collar elevation and drilling depths for the drill holes. Drill holes are located relative to the UTM coordinates although azimuths are relative to true north. Analyses below detection are plotted on the sections as negative values (Figures 6-14).

Table 8.0.1
DRILL HOLE SURVEY DATA

Hole	Azimuth (°)	Dip (°)	Depth (m)	Elevation (m)	UTM Coordinates North	UTM Coordinates East
REN97-01	000	-60	74.58	1235	7181070	632750
REN97-02	030	-60	79.85	1220	7180660	632285
REN97-03	000	-50	21.95*	1295	7180140	637165
REN97-04	000	-60	41.76	1295	7180140	637165
REN97-05	000	-50	47.85	1360	7179960	637160
REN97-06	000	-75	41.76*	1360	7179960	637160
REN97-07	000	-50	44.50	1370	7179865	637365
REN97-08	000	-60	66.15	1390	7179895	637535
REN97-09	340	-70	53.04	1360	7179900	638010
REN97-10	010	-70	5.18*	1375	7174530	640735
REN97-11	010	-80	53.64	1375	7174530	640735
REN97-12	340	-55	56.39	1160	7181045	632555
TOTAL			586.65			

* - Hole lost

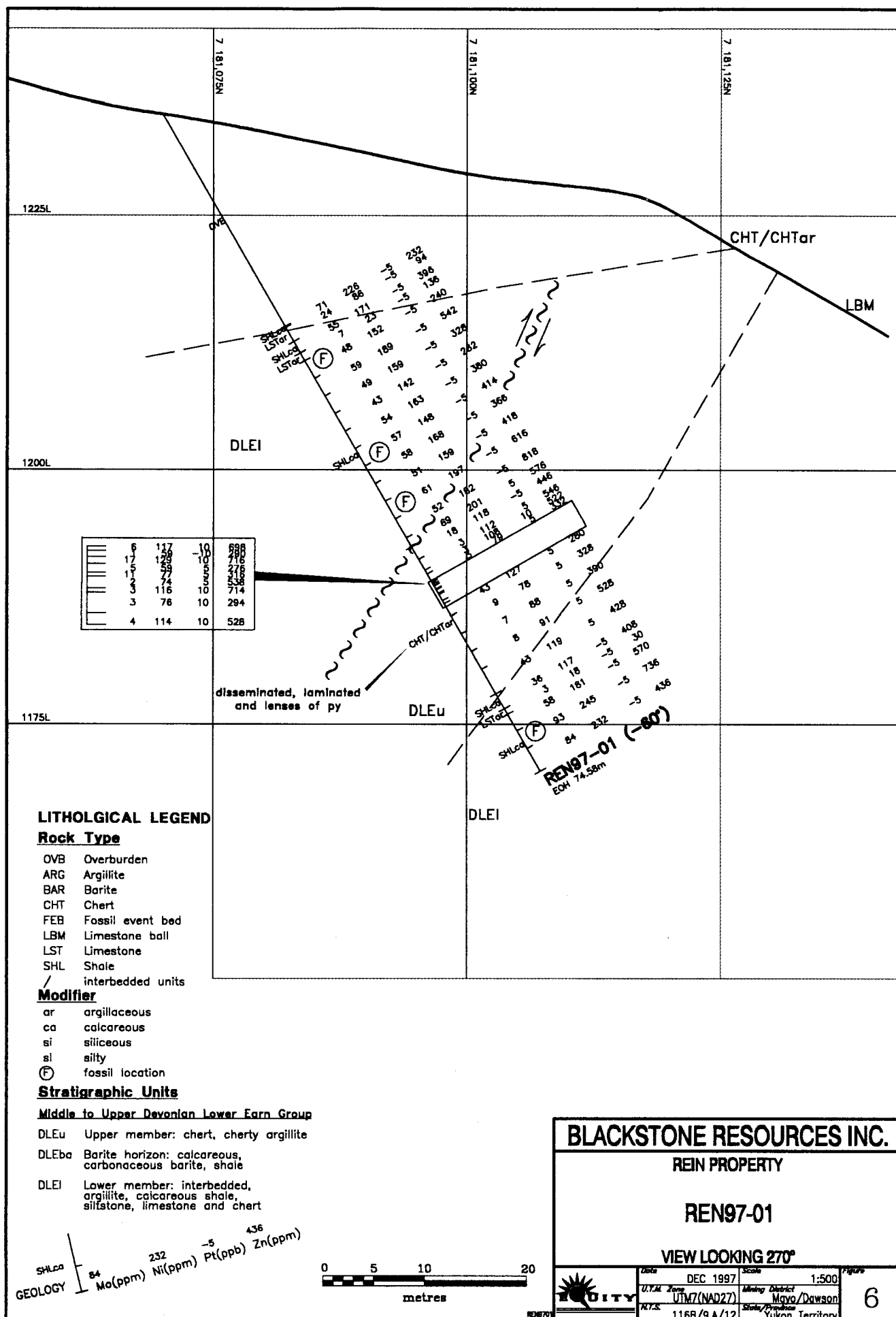
8.1 TB Grid

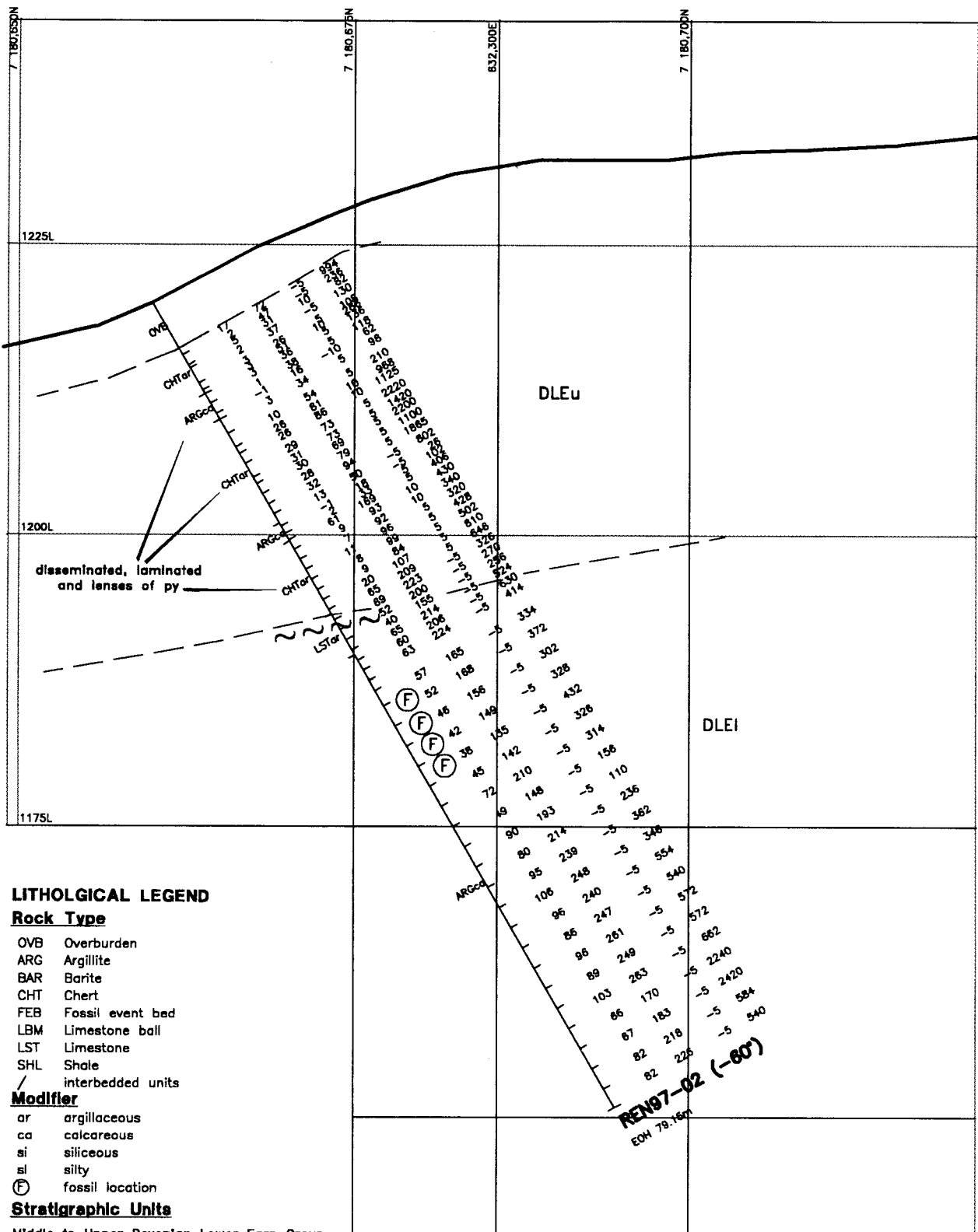
Hole REN97-01

Hole REN97-01 targeted a Ni-Mo-As-Zn-Pd soil anomaly on the north end of L5400E, east of the TB Showing. The upper part of the hole entered interbedded, fossiliferous calcareous shale and argillaceous limestone of unit DLEI. After passing through a thrust fault at 49.15 metres, the hole continued through chert and cherty argillite to a depth of 65.80 metres. From this point on, the hole passed through lithologies similar to the upper part of the hole. The target horizon between the underlying unit DLEI and DLEu was not mineralized. However, the hanging wall chert contained pyrite in several forms: very fine disseminations, tiny spheroidal grains, wispy lenses and laminations and narrow massive bands. Ni and Mo values were low through the pyritic section whereas Zn (up to 716 ppm), Au (up to 18 ppb), Pt (up to 10 ppb), Pd (up to 22 ppb) and P (up to 3940 ppm) values are slightly elevated ((Figure 6). The elevated Zn values are significant not in terms of absolute values but in their occurrence. No hydrozincite was observed and it is assumed that all the Zn is contained in a sulphide phase with the pyrite.

Hole REN97-02

The eastern downdip projection of DM Showing was tested by hole REN97-02. To a depth of 30.90 metres, the hole was drilled through pyritic cherty argillite of DLEu, similar to hole REN97-01, with minor interbeds of calcareous argillite (Figure 7). Below 30.90 metres, argillaceous limestone and calcareous argillite of unit DLEI is present, very similar to the bottom of hole REN97-01 with comparable fossils. No pyrite-vaesite mineralization or limestone balls, as found on surface, were encountered at





LITHOLOGICAL LEGEND

Rock Type

- OVB Overburden
- ARG Argillite
- BAR Barite
- CHT Chert
- FEB Fossil event bed
- LBM Limestone ball
- LST Limestone
- SHL Shale
- / interbedded units

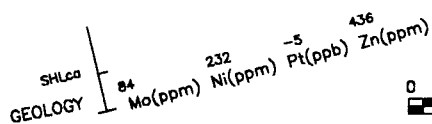
Modifier

- ar argillaceous
- ca calcareous
- si siliceous
- sl silty
- (F) fossil location

Stratigraphic Units

Middle to Upper Devonian Lower Earn Group

- DLEu Upper member: chert, cherty argillite
- DLEba Barite horizon: calcareous, carbonaceous barite, shale
- DLEl Lower member: interbedded, argillite, calcareous shale, siltstone, limestone and chert



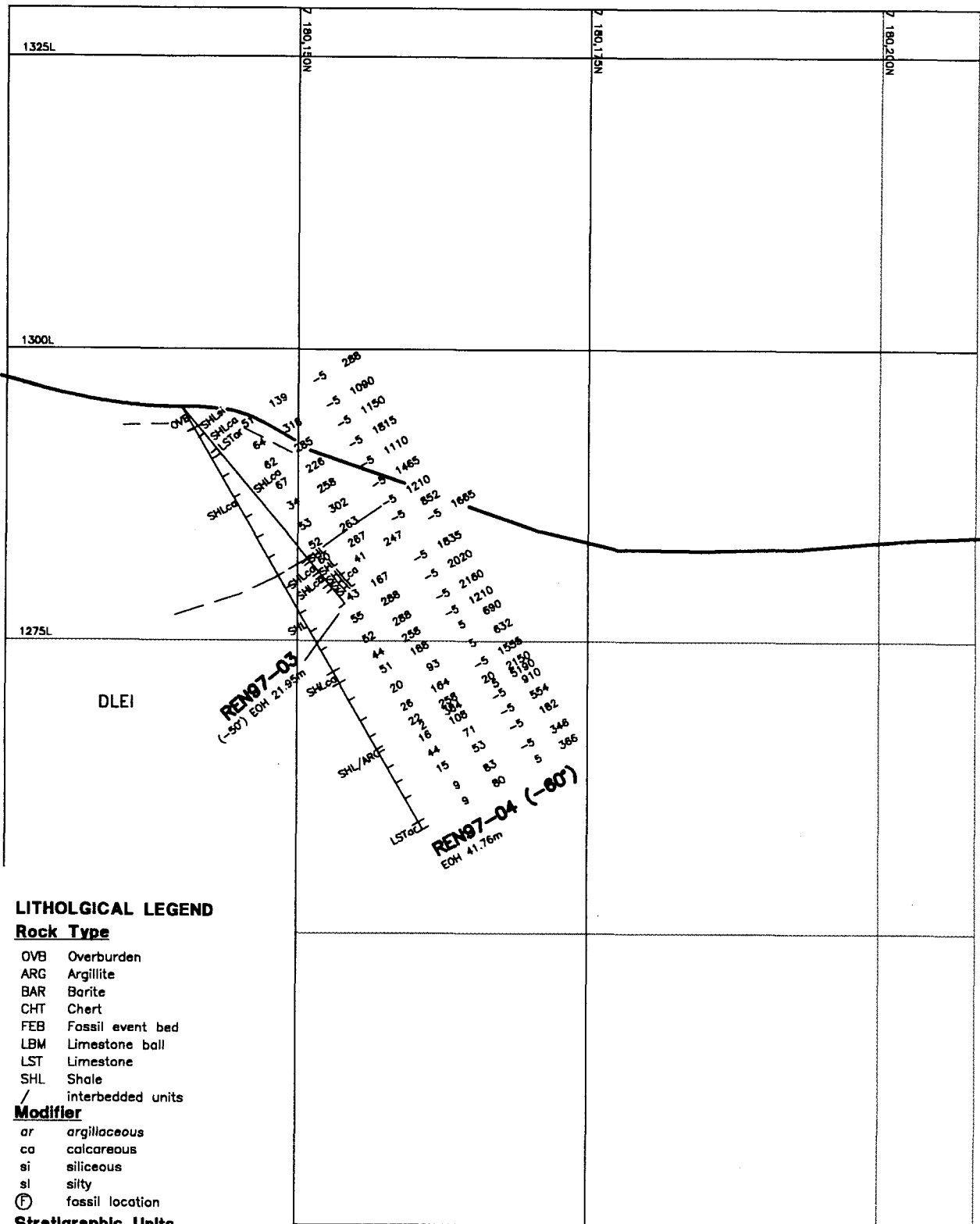
BLACKSTONE RESOURCES INC.

REIN PROPERTY

REN97-02

VIEW LOOKING 300°

Date	DEC 1997	Scale	1:500	Figure	7
UTM Zone	UTM7(NAD27)	Mining District	Mayo/Dawson		
N.T.S.	116B/9A/12	Shale/Pyrite	Yukon Territory		



SHLco 84 Mo(ppm) 232 Ni(ppm) -5 Pt(ppb) 436 Zn(ppm)

GEOLOGY

0 5 10 20
metres

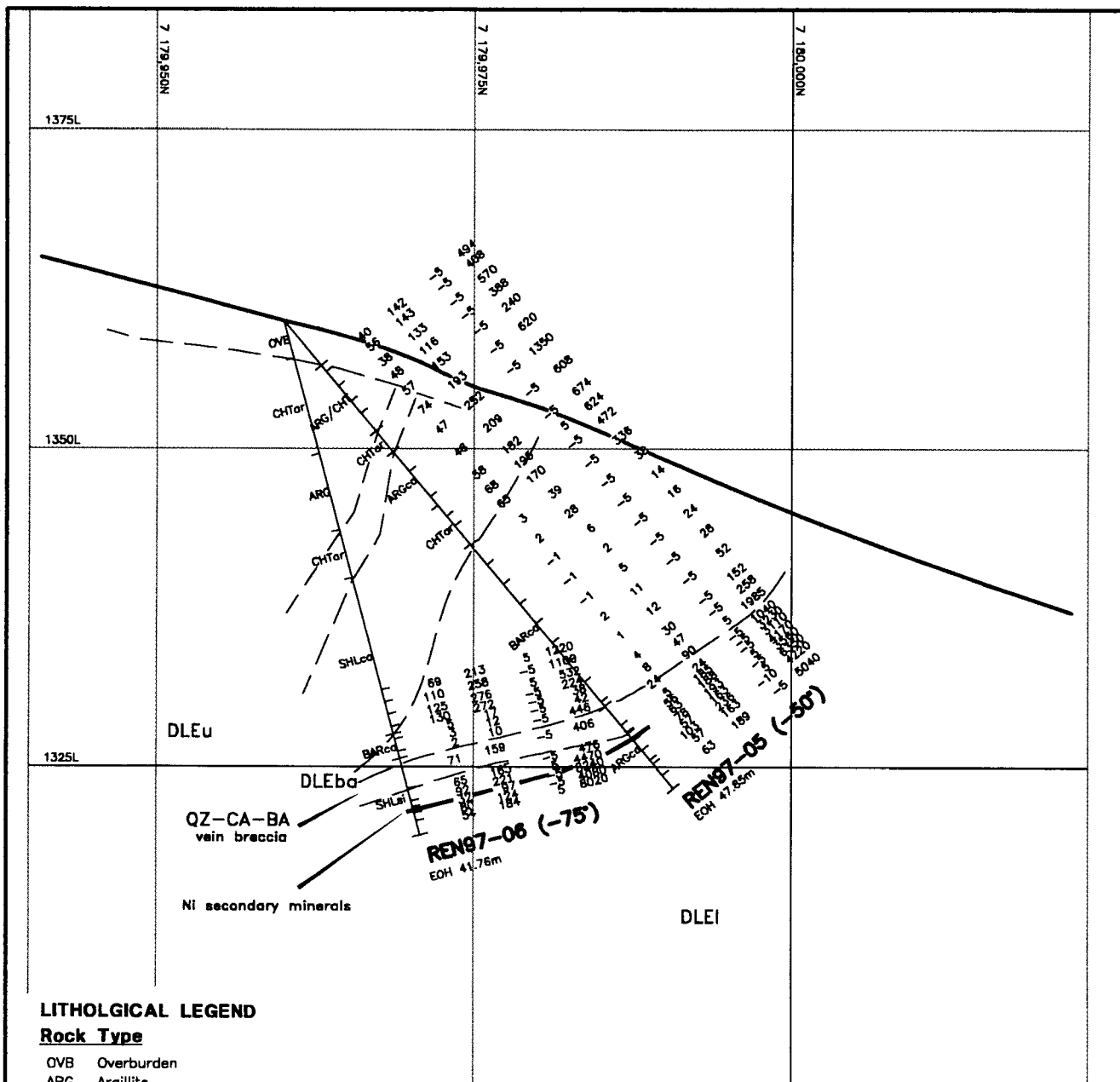
BLACKSTONE RESOURCES INC.

REIN PROPERTY

REN97-03, -04

VIEW LOOKING 270°

Date	DEC 1997	Scale	1:500	Figure
UTM Zone	UTM7(NAD27)	Mining District	Mayo/Dawson	8
N.T.S.	116B/9A/12	State/Province	Yukon Territory	



LITHOLOGICAL LEGEND

Rock Type

OVB	Overburden
ARG	Argillite
BAR	Barite
CHT	Chert
FEB	Fossil event bed
LBM	Limestone ball
LST	Limestone
SHL	Shale
/	interbedded units

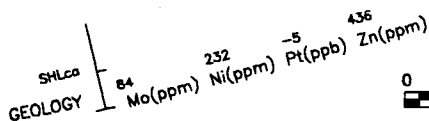
Modifier

ar	argillaceous
ca	calcareous
si	siliceous
sl	silty
Ⓢ	fossil location

Stratigraphic Units

Middle to Upper Devonian Lower Earn Group

DLEu	Upper member: chert, cherty argillite
DLEba	Barite horizon: calcareous, carbonaceous barite, shale
DLEI	Lower member: interbedded, argillite, calcareous shale, siltstone, limestone and chert



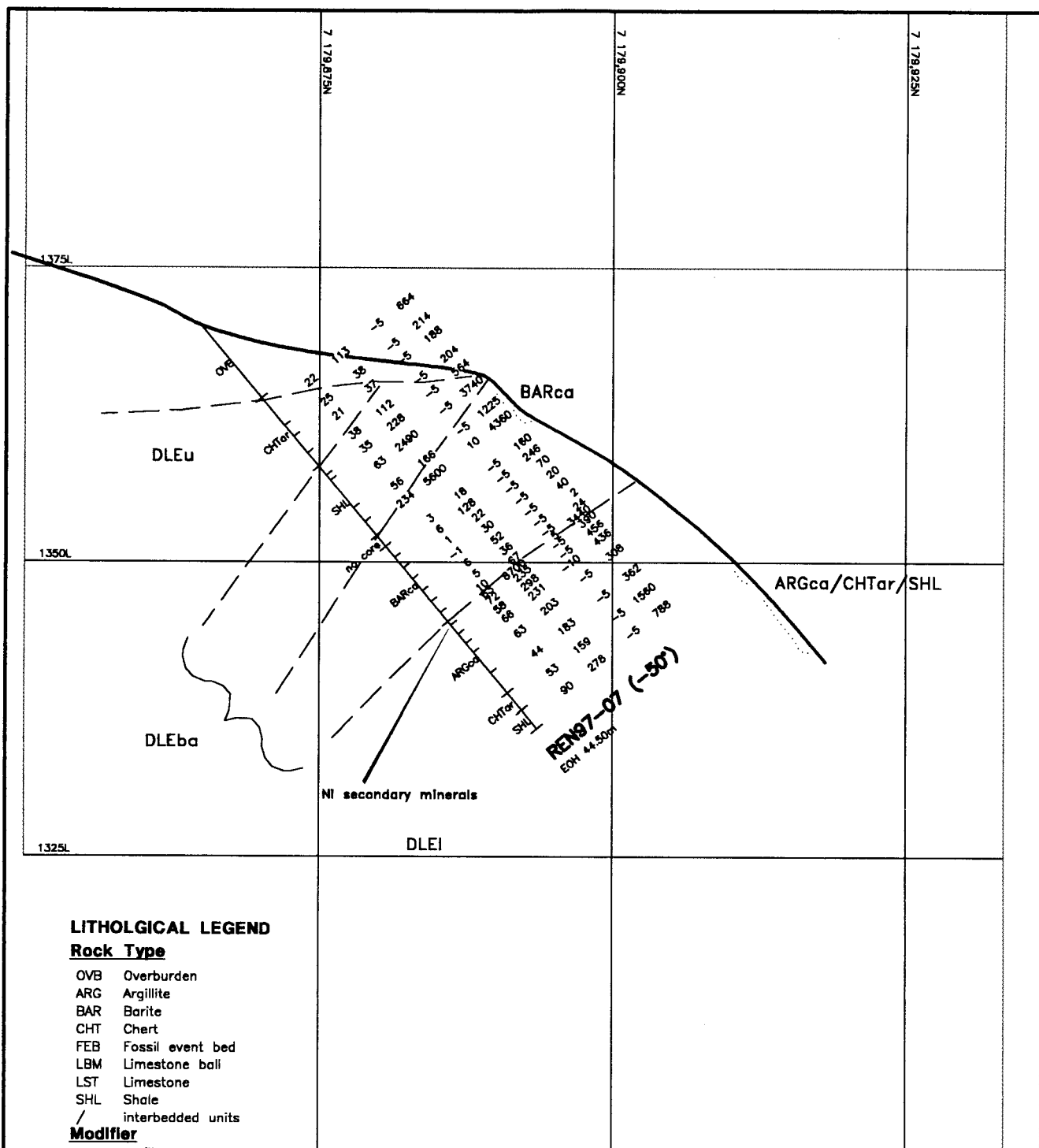
BLACKSTONE RESOURCES INC.

REIN PROPERTY

REN97-05, -06

VIEW LOOKING 270°

	Date	DEC 1997	Scale	1:500	Figure 9
	U.T.M. Zone	UTM7(NAD27)	Mining District	Mayo/Dawson	
	N.T.S.	116B/9A/12	State/Province	Yukon Territory	



LITHOLOGICAL LEGEND

Rock Type

- OVB Overburden
- ARG Argillite
- BAR Barite
- CHT Chert
- FEB Fossil event bed
- LBM Limestone ball
- LST Limestone
- SHL Shale
- / interbedded units

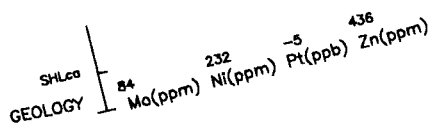
Modifier

- ar argillaceous
- ca calcareous
- si siliceous
- sl silty
- ⊕ fossil location

Stratigraphic Units

Middle to Upper Devonian Lower Farn Group

- DLEu Upper member: chert, cherty argillite
- DLEba Barite horizon: calcareous, carbonaceous barite, shale
- DLEI Lower member: interbedded, argillite, calcareous shale, siltstone, limestone and chert



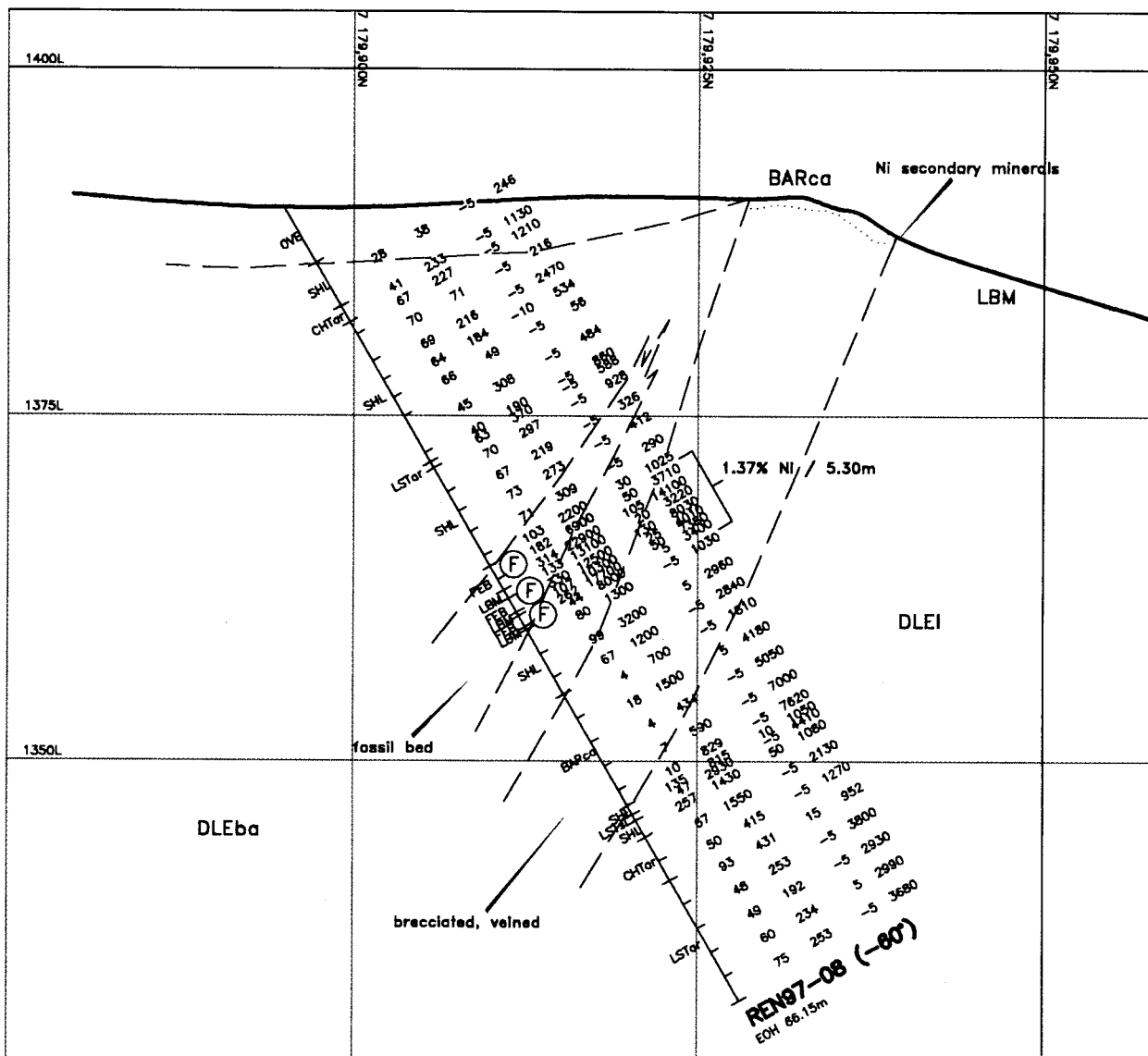
BLACKSTONE RESOURCES INC.

REIN PROPERTY

REN97-07

VIEW LOOKING 270°

Date	DEC 1997	Scale	1:500	Figure	10
UTM Zone	UTM7(NAD27)	Mining District	Mayo/Dawson		
N.T.S.	116B/9A/12	Shale/Producer	Yukon Territory		



LITHOLOGICAL LEGEND

Rock Type

- Overburden
- ARG Argillite
- BAR Barite
- CHT Chert
- FEB Fossil event bed
- LBM Limestone ball
- LST Limestone
- SHL Shale
- / interbedded units

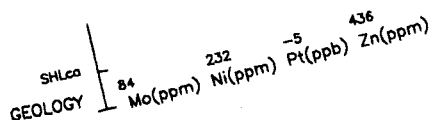
Modifier

- ar argillaceous
- ca calcareous
- si siliceous
- sl silty
- (F) fossil location

Stratigraphic Units

Middle to Upper Devonian Lower Earn Group

- DLEu Upper member: chert, cherty argillite
- DLEba Barite horizon: calcareous, carbonaceous barite, shale
- DLEI Lower member: interbedded, argillite, calcareous shale, siltstone, limestone and chert



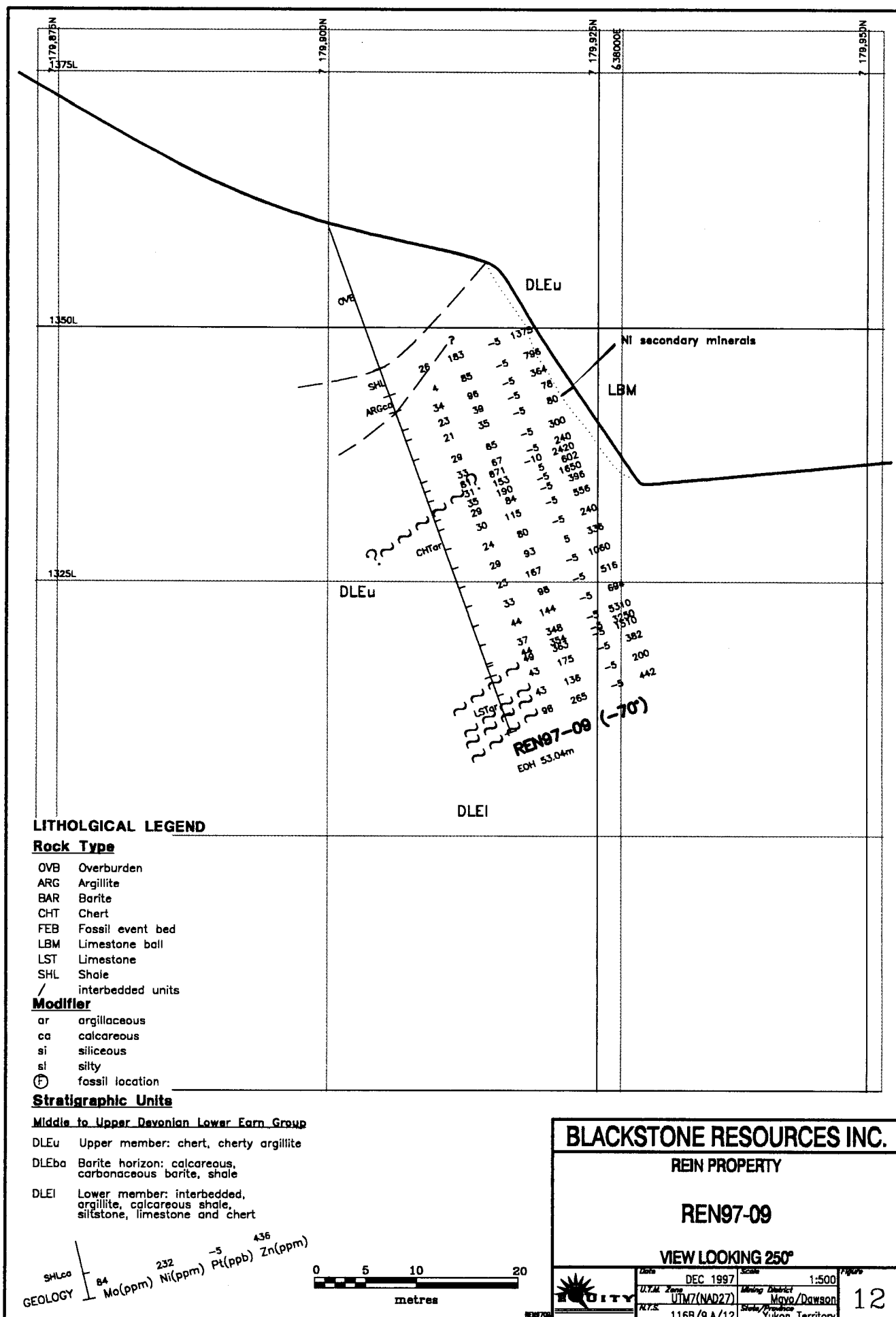
BLACKSTONE RESOURCES INC.

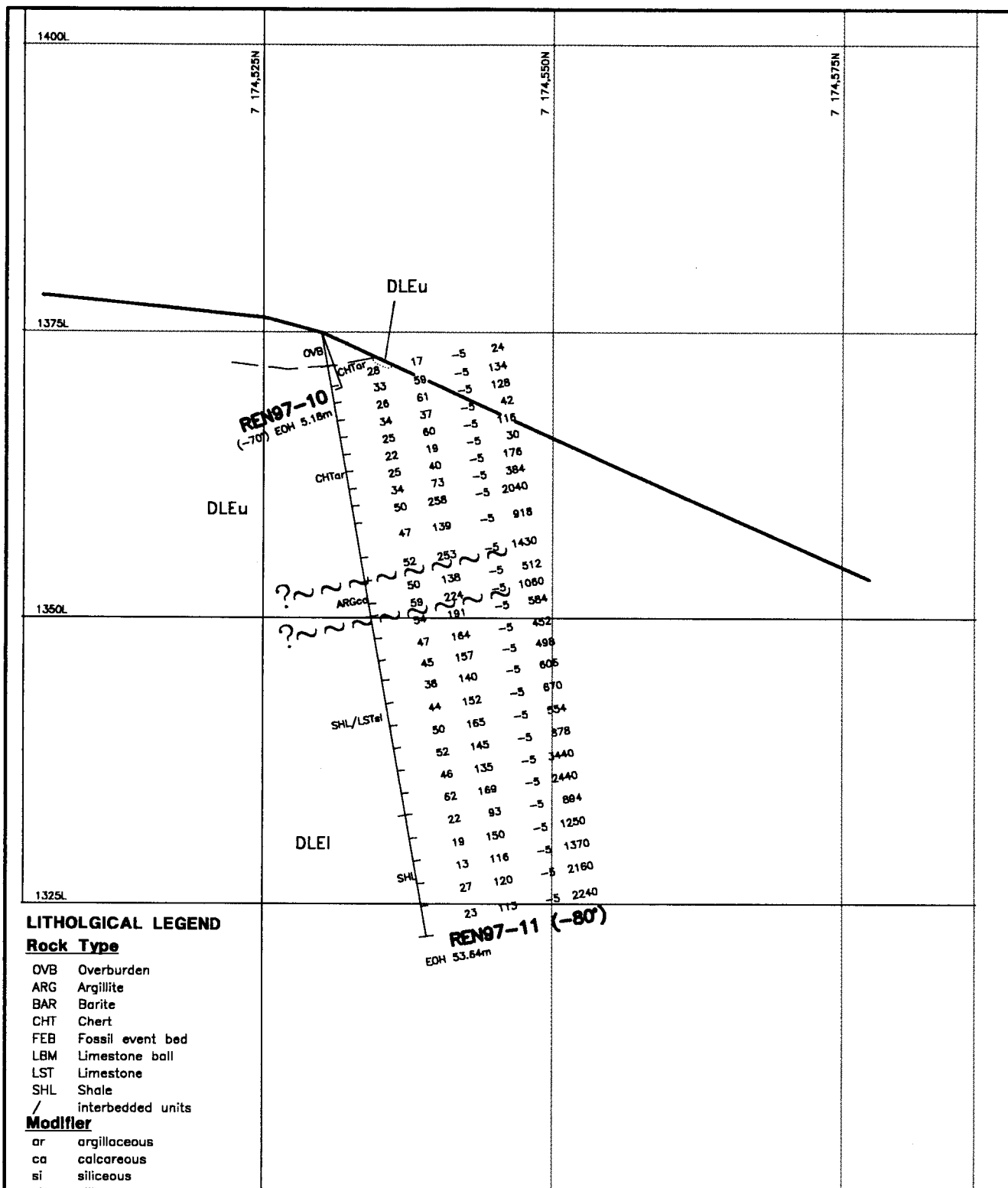
REIN PROPERTY

REN97-08

VIEW LOOKING 270°

Date	DEC 1997	Scale	1:500	Page	11
UTM Zone	UTM7(NAD27)	Mining District	Mayo/Dawson		
N.T.S.	116B/9A/12	State/Province	Yukon Territory		





SHLco 84 Mo(ppm) 232 Ni(ppm) -5 Pt(ppb) 436 Zn(ppm)

GEOLOGY

0 5 10 20 metres

BLACKSTONE RESOURCES INC.

REIN PROPERTY

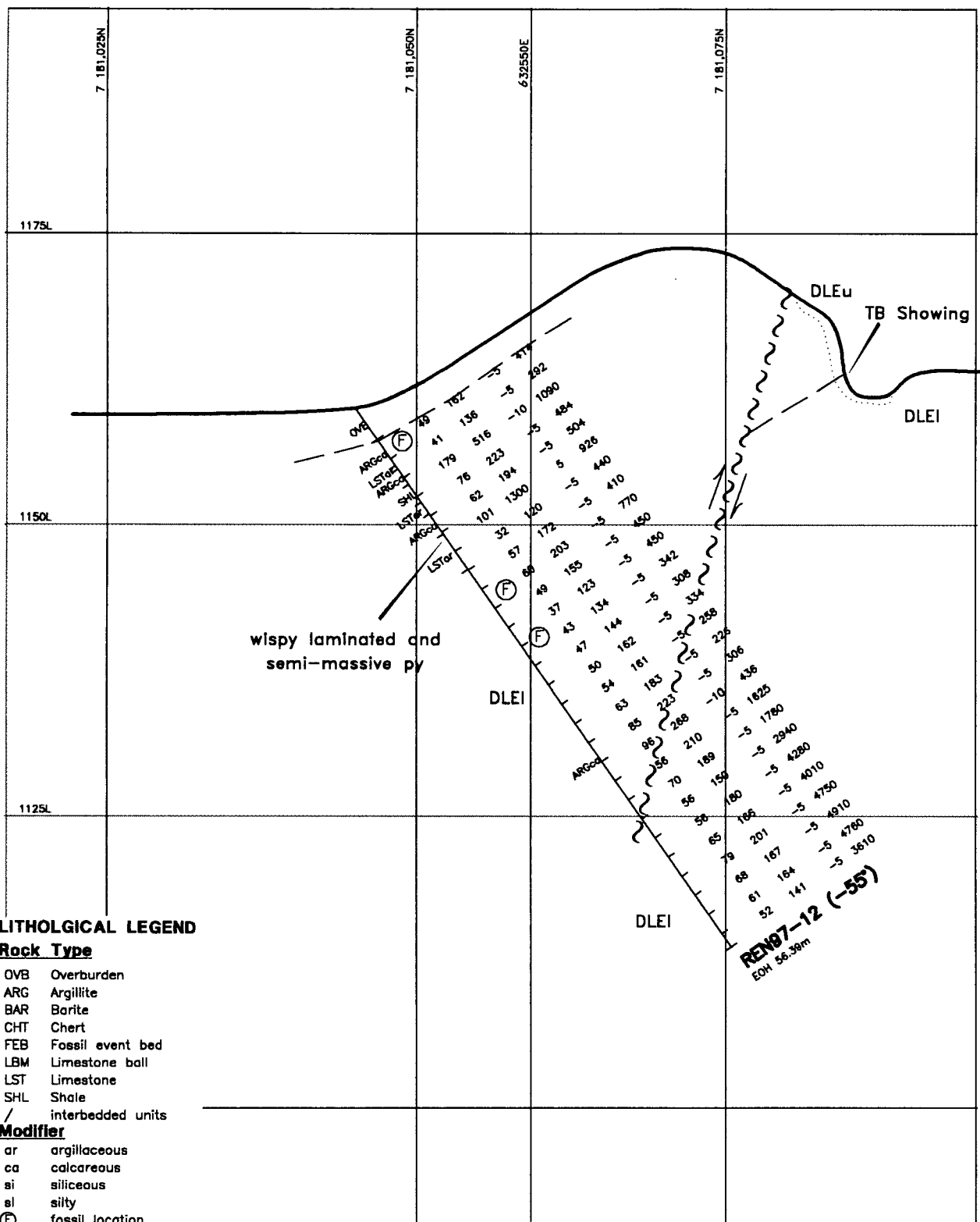
REN97-10, -11

VIEW LOOKING 280°



Date	DEC 1997	Scale	1:500
U.T.M. Zone	UTM7(NAD27)	Mining District	Mayo/Dawson
N.T.S.	116B/9A/12	State/Province	Yukon Territory

13



LITHOLOGICAL LEGEND

Rock Type

OVB	Overburden
ARG	Argillite
BAR	Barite
CHT	Chert
FEB	Fossil event bed
LSM	Limestone ball
LST	Limestone
SHL	Shale
/	interbedded units

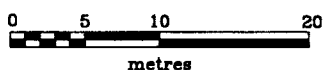
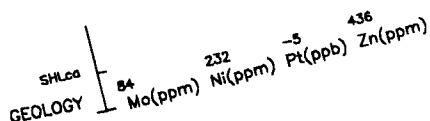
Modifier

ar	argillaceous
ca	calcareous
si	siliceous
sl	silty
⊕	fossil location

Stratigraphic Units

Middle to Upper Devonian Lower Earn Group

DLEu	Upper member: chert, cherty argillite
DLEba	Barite horizon: calcareous, carbonaceous barite, shale
DLEI	Lower member: interbedded, argillite, calcareous shale, siltstone, limestone and chert



BLACKSTONE RESOURCES INC.

REIN PROPERTY

REN97-12

VIEW LOOKING 250°



Date	DEC 1997
U.T.M. Zone	UTM7(NAD27)
N.T.S.	1168/9A/12

Scale	1:500
Mining District	Mayo/Dawson
State/Province	Yukon Territory

14

the contact of the two units. The contact between the two units is faulted, brecciated and veined with quartz-calcite. It is conceivable that the target horizon has been displaced by faulting. The pyritic portions of DLEu contain anomalous Au, Pt, Pd, P and Zn. Zn values are strongest in the upper part of the section (14.33-21.00 m) whereas P is concentrated closer to the lower contact.

Hole REN97-12

The final hole of the program, REN97-12, was oriented to intersect the downdip projection of the TB Showing (Figure 14). The entire hole was drilled within interbedded argillaceous limestone and calcareous argillite of unit DLEI, the footwall stratigraphy to the massive pyrite-vaesite mineralization. The thrust fault mapped on surface would appear to have a steeper orientation than suspected, cutting off the hanging wall strata and target horizon. Of note is a narrow section of laminated and semi-massive pyrite from within the sample interval 13.0-15.0 metres. Analytical results indicate the presence of anomalous Ni (1300 ppm) and Mo (101 ppm) in this intersection. To date, this is the first indication of syngenetic Ni-bearing mineralization in unit DLEI on the property.

8.2 MM Grid

Drilling was concentrated on the MM grid for the following reasons: (1) to determine the source of the strong, 1800 metre long Ni-Mo-As-Pd-Zn soil anomaly, (2) the association of this soil anomaly with bedded barite and (3) the presence of Ni secondary minerals beneath the barite bed.

Holes REN97-03, 04

Holes REN97-03 and -04 tested Ni-Mo-As-Zn-Pd soil geochemistry on the lower structural panel on the MM grid (Figure 8). As hole REN97-03 was lost at 21.95 metres due to caving in the hole, a second hole, REN97-04, was drilled from the same site. Both holes were drilled entirely within shale, calcareous and siliceous shale, argillite and argillaceous limestone of unit DLEI. No sulphide mineralization was observed in either hole and geochemical analysis of hole REN97-04 failed to return any significant Ni values. The anomalous Zn values (>1000 ppm) are most likely derived from hydrozincite coatings on fractures. The source of the Ni soil geochemistry has not been adequately explained in this area.

Holes REN97-05, 06

The western end of the MM barite bed was penetrated by holes REN97-05 and -06 (Figure 9). The drill section shows the variability in thickness of the barite horizon where the horizon has gone from a thickness of >16 metres to 2 metres in a span of 15 metres. The barite horizon lacks the Ni horizon elemental signature (As, PGEs, Ni, Mo) or other base metals such as Cu, Pb and Zn. The Ba content varies from 27% to 33% in the two intersections. The barite horizon, DLEba, lies on the contact of the chert, cherty argillite and argillite of DLEu and calcareous units of DLEI. No primary Ni sulphide mineralization was noted although green (Ni?) secondary minerals occur in the footwall of the barite. The hydrozincite coatings at the bottom of the hole are reflected by the very anomalous Zn values; V values are similarly elevated at this point. One speck of sphalerite was noted in the quartz-calcite-barite vein breccia at the base of the barite bed.

Holes REN97-07, 08

Holes REN97-07 and -08 were successful in identifying two zones of Ni-bearing mineralization (Figures 10 and 11). In both holes, Ni-bearing mineralization occurs in a black, carbonaceous, noncalcareous shale unit above and below the barite horizon. As this stratigraphic package is located below chert of hanging wall unit DLEu and is in part baritic, the entire package has been lumped into unit DLEba. The barite horizon in hole REN97-07 is similar to that in holes REN97-05 and -06 although the unit is weakly brecciated and veined. The Ba content is lower and Ca content higher than the other holes falling in the range of 6% to 13%. The brecciation and veining is even more pronounced in hole

REN97-08 where the barite horizon has lost its grey colour, has a much lower Ba content (<1-3%) and contains vuggy open spaces lined with clear gypsum crystals. None of these features are apparent in outcrop where 10 metres of well-bedded barite are present. In both holes, no sulphide minerals were observed in either Ni-bearing zones. Only a small portion of the higher Ni grades encountered can be explained by the minor green secondary minerals observed in both zones; another mineral species must be the main Ni contributor.

The Ni-rich sections have the same suite of elevated elements as the pyrite-vaesite type of Ni sulphide mineralization with the addition of Zn and Ba. The highest grade Ni mineralization occurs in hole REN97-08, hosted in a fossil-rich bed (unit FEB) with baritic limestone balls (unit LBM) from 29.90-35.20 metres. The fossil structures are close packed and exhibit several forms (circles, saucers, horseshoe-shaped), some of which have circular or figure eight shaped, black cores. The interval also contains a reddish brown mineral as veinlets and replacements of the fossil structures and a yellowish mineral on fracture surfaces. These minerals are unique to this interval and presumably are the source of the Ni. The fossil bed was not intersected in hole REN97-07; this result may be due to the extremely poor recoveries in the hole (i.e 23.16-24.38 m - 0% recovery) or may indicate a stratigraphic pinch-out. The elevated Ni values through the barite horizon are likely contained in the black coloured veinlets. A summary of significant intercepts and weighted averages is tabled below.

Table 8.2.1
Significant Drill Intercepts

Hole	From (m)	To (m)	Width (m)	Pt (ppb)	Mo (ppm)	Ni (ppm)	Zn (ppm)
REN97-07	17.07	23.16	6.09	2	104	2579	3267
includes	17.07	20.12	3.05	<5	63	2490	3740
	20.12	21.64	1.52	<5	56	166	1225
	21.64	23.16	1.52	10	234	5170	4360
REN97-08	29.00	54.50	25.50	19	97	3928	4101
includes	29.90	35.20	5.30	69	233	13743	6979
includes	29.00	29.90	0.90	30	103	2200	1025
	29.90	31.00	1.10	50	182	6900	3710
	31.00	31.90	0.90	105	314	22900	14100
	31.90	32.60	0.70	20	133	13100	3220
	32.60	33.75	1.15	130	330	12500	8030
	33.75	34.04	0.29	25	107	10300	4010
	34.04	34.95	0.91	50	262	17700	7380
	34.95	35.20	0.25	5	44	8000	3400
	35.20	37.20	2.00	<5	80	1300	1030
	37.20	39.20	2.00	5	99	3200	2960
	39.20	40.60	1.40	<5	67	1200	2840
	40.60	42.60	2.00	<5	4	700	1810
	42.60	44.60	2.00	5	18	1500	4180
	44.60	46.60	2.00	<5	4	434	5050
	46.60	48.60	2.00	<5	7	590	7000
	48.60	49.90	1.30	<5	10	829	7620
	49.90	50.60	0.70	10	135	815	1050
	50.60	51.10	0.50	<5	47	2930	4410
	51.10	52.50	1.40	50	257	1430	1080
	52.50	54.50	2.00	<5	67	1550	2130

Check assays from laboratory rejects of the Ni values in REN97-08 compare favourably returning a weighted average 0.38% Ni over the larger interval (29.00-54.50 m) and 1.42% Ni over the higher grade section (29.9-25.2 m).

Hole REN97-09

Hole REN97-09 was positioned approximately 500 metres east of hole REN97-08. Surface mapping had shown that the bedded barite had pinched out at this point but Ni secondary minerals and limestone balls were exposed in outcrop. The geology encountered in the hole does not match that on surface, suggesting a fault lies between the hole and surface (Figure 12). In addition, the overburden was much greater than anticipated considering the steepness of the local terrain and the close proximity to outcrop. No Ni mineralization was located at the favourable DLEu-DLEI contact and no limestone balls were located below the contact. A zone of calcite breccia from the sample interval 28.00-29.00 metres returned 871 ppm Ni.

8.3 East Claim Block

Only one site was selected for drilling on the east Rein claim block due to budgetary constraints. Soil sampling had identified a 6,000 metre Ni-Mo-As-Pd-Zn anomaly which stretches the length of the Rein 100-181 claim block.

Holes REN97-10, 11

Two holes, REN97-10 and REN97-11, were drilled from the same site, as hole REN97-10 was lost at 5.18 metres (Figure 14). The drill target at this site was a Ni-Mo-As-Pd-Zn soil anomaly following the favourable DLEu-DLEI contact. From the lack of exposure, it could not be determined from mapping whether this contact was conformable or structural in nature. The drilling has shown the contact to be faulted and lacking characteristic limestone balls normally beneath the contact. As such, no Ni mineralization was found. Samples of unit DLEI were anomalous in Zn (>1000 ppm), a common feature to most of the holes, reflecting the presence of hydrozincite on fractures. The source of the Zn geochemistry is adequately explained through drilling although a source was not found for the Ni-Mo-As-Pd soil geochemistry.

9.0 DISCUSSION

The Rein property exhibit strong similarities to stratiform Ni-Mo-Zn-Au-PGE massive sulphide deposits in southern China and 100 kilometres to the east at the Nick property. Like the sub-basins hosting the other deposits, the Taiga Basin is formed of Early Paleozoic shales and argillites deposited near the transition between shelf and off-shelf sedimentary sequences. Like the Nick in particular, the Taiga Basin is a sub-basin located north of the main Selwyn Basin within the Mackenzie Platform, underlain and overlain by shallow-water carbonates. The Nick and southern China stratiform Ni-Mo-Zn-Au-PGE massive sulphide deposits contain large tonnages of high-grade mineralization; the Nick is estimated by Hulbert et al (1992) to contain a minimum of 17 million tonnes @ 5.3% nickel, albeit, with a thickness of 2 to 7 centimetres over an areal extent of 80 km².

Excellent examples of bedded Ni-sulphide mineralization have been found at the TB and DM showings on the Rein property. The Ni-sulphide mineralization is composed of vaesite (NiS₂) intimately intergrown with pyritic framboids and spheroids and accompanied by bitumen and apatite; it exhibits similar textures, mineralogy and metal suite to the Chinese and Nick deposits. Their distinctive metal suite comprises elements not commonly found together: nickel, molybdenum, zinc, gold, platinum group metals, arsenic and vanadium. Phosphate (apatite), barite and organic carbon (bitumen) are important non-metallic constituents of each deposit. Sampling of this material has returned assay values up to 5.21% Ni and over 900 ppb Au+Pt+Pd over thicknesses varying from 6 to 50 centimetres.

The primary objective of the 1997 program was to drill test the TB and DM showings and determine the source of some of the extensive Ni-Mo-As-Pd-Zn soil geochemical anomalies outlined by previous work programs. The association of bedded barite with the soil response on the MM grid was of

particular interest as the barite is indicative of hydrothermal activity and confirms the presence of a basinal trough in which thicker sulphide accumulations could occur.

The 1997 drilling met with technical difficulties due to the poor ground conditions. Many of the holes failed to intersect any Ni mineralization at the favourable contact due to structural complications, leaving the question of whether the stratiform vaesite-pyrite layer can stratigraphically thicken unanswered. It was expected that the sulphide horizon would be consistently intersected considering the tremendous continuity exhibited by the Nick deposit and similar deposits in China. It might have been interpreted from the drilling that the lens pinches out if evidence of structural disturbance was not located at the contact. In addition, the failure to intersect the footwall limestone ball unit indicates part of the stratigraphic picture has been removed by faulting. Conversely, the thickened sulphide layer at the TB Showing may be structural in nature. The faulting along this contact is likely enhanced by the lithology contrasts across the contact and the presence of the sulphide layer itself.

The above difficulties were easily offset by the discovery of two Ni-bearing zones on the MM grid. The most significant mineralization was encountered in hole REN97-08, returning 1.41% Ni over 5.3 metres within 25.5 metres of 0.39% Ni and 0.41% Zn. The nickel mineralization is concentrated in two zones on either side of a brecciated and stockwork-veined bedded barite horizon. The higher grade Ni mineralization of the upper zone is hosted in a fossil-rich bed containing baritic limestone balls. This new type of mineralization contains the same metal enrichment (PGE's, Mo, As) as the more typical pyrite-vaesite mineralization but also contains anomalous levels of Zn and Ba.

Although the composition and textures of the stratiform pyrite-vaesite mineralization differs from that found in holes REN97-07 and -08, they are stratigraphically equivalent and probably genetically related. In addition to their common elemental suite, both nickel-bearing horizons are stratiform and lie at the contact of the limestone ball section (unit DLEI) and chert (unit DLEu). On the western part of the property, the horizon is represented by a thin (<40 cm) massive pyrite-vaesite layer whereas on the MM grid, this stratigraphic position is occupied by calcareous barite and poorly exposed carbonaceous, baritic, nickeliferous and phosphatic black shale which has drill-indicated thicknesses in excess of 45 metres in hole REN97-08.

One can surmise as to the geological significance of the Ni-bearing stockwork veining and the presence of the best Ni mineralization with the unique fossil-rich assemblage in hole REN97-08. It is probably not fortuitous that both occur together; Ni-bearing nutrient-rich fluids likely promoted the biological activity fossilized in the Ni-rich interval. This phenomena would not be unlike that being recorded at modern day sea floor hydrothermal vents. The stockwork C- and Ni-rich veinlets crosscutting the barite horizon could be interpreted as feeder structures below a vent site. In this scenario, the laterally extensive pyrite-vaesite mineralization at the TB and DM showings would represent a more distal facies.

Many questions remain to be answered in regards to the new mineralization intersected in holes REN97-07 and -08 on the MM grid:

- What is the main Ni mineral?
- Is the stratiform pyrite-vaesite mineralization, as proposed above, a facies equivalent to the Ni mineralization in holes REN97-07 and 08?
- What are the fossil structures in the fossil bed and what implications do they have for the paleoenvironment for deposition of Ni mineralization?
- What is the age of mineralization?
- What major elements (Ca, Na, K, etc.), if any, are associated with the Ni mineralization?
- What is the significance of the Ni-bearing sulphide mineralization intersected in the hole REN97-12? This intersection occurs in a calcareous unit typically found in the footwall of the massive pyrite-vaesite mineralization.
- The composition and appearance of the "barite horizon" in hole REN97-08 does not resemble that of the surface exposure up dip or in other drill holes on the MM grid. The horizon lacks appreciable Ba, has anomalous Ni values, is predominately comprised of recrystallized carbonate and has a

stockwork veined, crackled to brecciated appearance. Is this horizon a carbonate mound that is laterally equivalent to the bedded barite or have hydrothermal fluids altered the composition of the horizon?

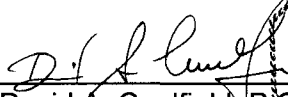
In an effort to answer these questions, a number of studies are currently being undertaken. Petrographic and scanning electron microscope work by Panterra Geoservices should help in determining Ni minerals and whether the mineral species is consistent in holes REN 97-07 and 08. Further geochemical analyses by Chemex Labs, utilizing selective leach procedures, will help determine if the majority of the Ni occurs as a sulphide, sulphate, silicate, oxide or carbonate mineral. A limestone ball within the mineralized section in hole REN97-08 will be submitted to the Geological Survey of Canada for conodont extraction and dating. A paleontological study has been commissioned to identify what are the fossils in hole REN97-08 and to gain some insight into their environment. Undoubtedly, the results from these studies will help in determining an exploration model the Rein mineralization and guide future exploration efforts on the property and elsewhere in the Taiga Basin.

In light of the drill results on the MM grid, a closer examination of the soil geochemical results is needed. Sample results from the soil location lying on the surface projection of the upper Ni-bearing zone in hole REN97-08 is only weakly anomalous in Ni at 286 ppm. Much higher (>600 ppm Ni) results occur further down slope in soils overlying calcareous beds of unit DLEI. The mobility and geochemical barriers of Ni in a secondary environment are very similar to Zn in which both metals are mobile in an oxidizing acid environment and are precipitated in higher pH, or alkaline, environments. Calcareous units such as DLEI, will give an exaggerated Ni and Zn response as opposed to the noncalcareous, black shale which hosts the Ni mineralization in hole REN 87-08. By analogy, the Zn-rich syngenetic pyritic zones intersected near the base of unit DLEu in holes REN97-02 and -03 are thought to be the source of the widespread hydrozincite and the elevated Zn values in soils overlying unit DLEI.

The significance of the mineralized intercept in hole REN97-08 should not be understated. In China and at the Nick occurrence, these unique deposits have consistently demonstrated that high metal grades are present but in all cases, the limiting economic factor is the narrow thickness of the mineralized horizon. Hole REN 97-08 has shown that there is not only variability in appearance but that thicker mineralized beds, in excess of five metres, can accumulate. Given the strong and well defined Ni soil anomalies and favourable stratigraphy over tens of kilometres in the Taiga Basin, the presence of potentially mineable thicknesses of mineralization in these holes gives great encouragement for further work.

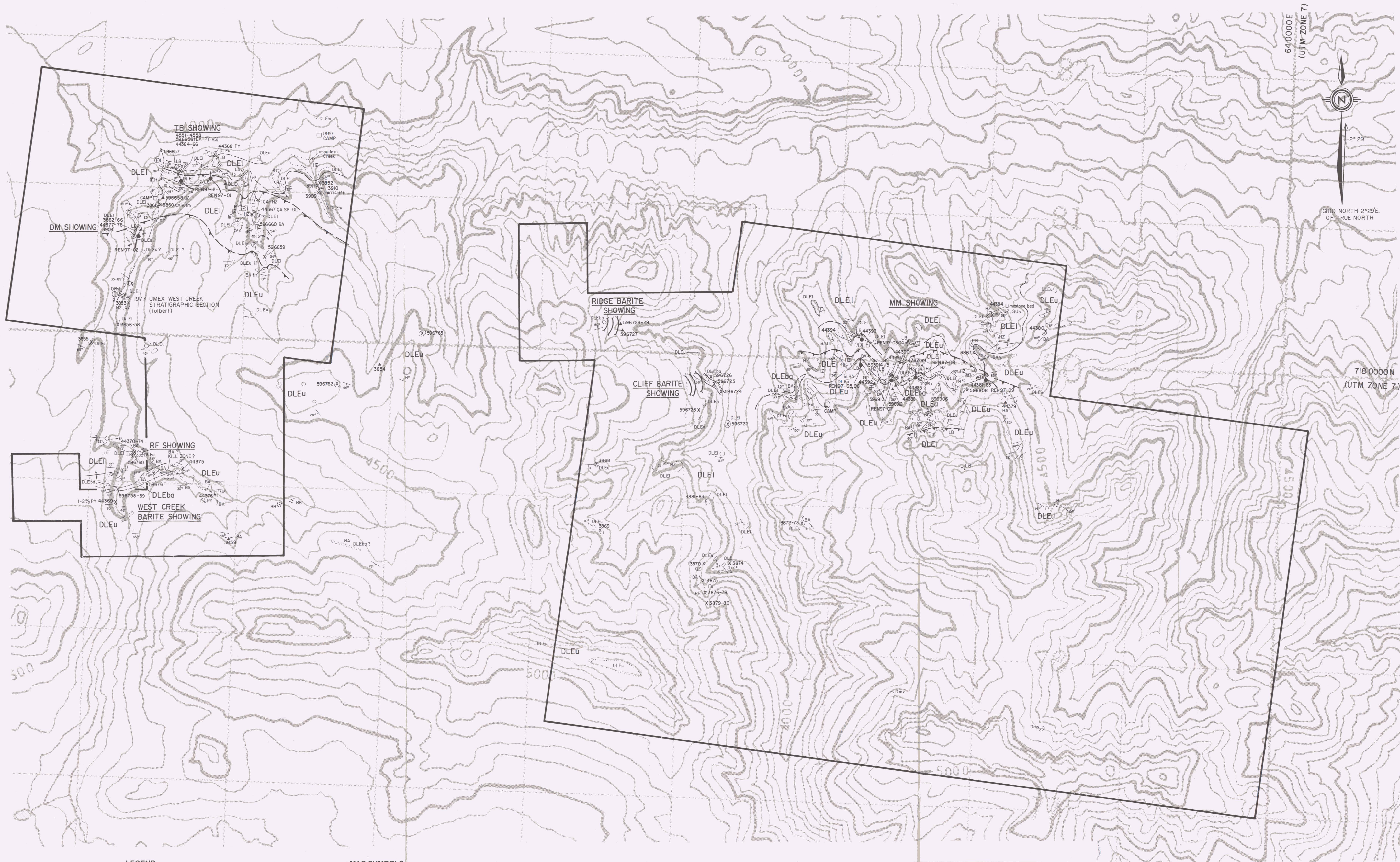
The very encouraging results of the 1997 drilling campaign should be followed by an aggressive exploration program in 1998. Continued reconnaissance mapping, soil sampling and prospecting should be undertaken on the balance of the Rein claims not examined in 1996 and on the expanded claim package surrounding it. The positive drill results on the MM grid should be followed up by additional drilling. Further drilling should be completed on targets not tested on the east Rein claim block and those generated by ongoing exploration.

Respectfully submitted,


 David A. Caulfield, P. Geo.
EQUITY ENGINEERING LTD.



Vancouver, British Columbia
 December, 1997



LEGEND

MIDDLE TO UPPER DEVONIAN
Lower Earm Group

DLEu Upper member - chert, cherty argillite, chert pebble conglomerate, barite
DLEba Barite horizon
DLEI Lower member - rhythmic section of argillite, calcareous shale and siltstone, limestone and chert; contains limestone ball member (LB) and barite ball member (BB)
DmV Mafic volcanic flow

ORDOVICIAN TO SILURIAN
Road River Group

ORsh Calcareous shale

UPPER PROTEROZOIC AND LOWER CAMBRIAN
Hyland Group

PCHph Laminated phyllitic siltstone and shale
PCHmv Mafic volcanic flow

Mapping includes 1994 mapping (Baknes, 1994)

MAP SYMBOLS

Outcrop
Felsenmeer
Lithological contact (defined, inferred)
Bedding (inclined, horizontal, vertical)
Joint (inclined, vertical)
Vein (inclined, vertical)
Cleavage (inclined, vertical)
Fault (slickensides)
Thrust fault
Minor fold (showing plunge direction)
Anticline, syncline
Trench
Rock Sample (float, grab)
Fossil Locality (graptolites, tentaculites)
Diamond drill hole

MINERALIZATION

AZ - azurite
GL - galena
OZ - quartz
TT - tetrahedrite
BA - barite
HZ - hydrozincite
SP - sphalerite
PY - pyrite

CA - calcite
PB - pyrobitumen
SU - sulvanite
VS - vaesite

1996 Rock Sample Analyses													
Sample Number	Au (ppb)	Pt (ppb)	Pd (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Ni (ppm)	Pb (ppm)	Zn (ppm)			
3552	<4	<10	<2	1.8	85	32	15	<2	1080				
3553	<4	<10	<2	0.2	16	128	22	72	<2	854			
3554	<4	<10	<2	0.2	16	338	38	102	<2	230			
3555	<4	<10	<2	3.0	48	100	44	151	<2	3600			
3556	<4	<10	<2	0.8	300	185	14	2990	10	9150			
3557	<4	<10	<2	0.2	10	32	8	2300	2	1420			
3558	<4	<10	<2	0.6	16	201	9	459	<2	6300			
3559	<4	<10	<2	0.2	16	17	17	61	5	94			
3560	<4	<10	<2	0.2	46	41	55	250	<2	1300			
3561	<4	<10	<2	0.2	24	109	39	192	<2	570			
3562	<4	<10	<2	1.2	36	17	42	13	16	44			
3563	<4	<10	<2	0.2	60	223	45	156	8	512			
3564	<4	<10	<2	1.2	68	33	149	76	6	146			
3565	<4	<10	<2	0.2	52	243	66	151	<2	338			
3566	<4	<10	<2	0.6	70	46	118	65	<2	146			
3567	8	10	<4	1.8	24	104	46	27	8	16			
3568	8	14	2.2	164	52	69	23	12	56				
3569	<2	<5	2	0.4	18	64	39	21	2	16			
3570	<2	<5	<2	0.2	8	18	29	24	8	46			
3572	<2	<5	<2	0.2	10	103	25	163	2	1770			
3573	<2	<5	<2	<0.2	8	2390	4	16	8	62			
3574	<2	<5	<2	<0.2	14	348	26	58	8	408			
3575	<2	<5	<2	<0.2	6	82	4	22	12	832			
3576	<2	<5	<2	<0.2	4	100	16	222	6	1045			
3577	2	<5	4	0.2	16	22	56	103	6	354			
3578	4	<5	2	0.2	10	66	38	117	6	250			
3579	<2	<5	4	<0.2	30	216	35	231	8	706			
3580	<2	<5	2	0.2	6	42	33	52	152	12	464		
3581	<2	<5	<2	0.6	36	52	43	125	16	798			
3582	<2	<5	<2	0.4	10	23	27	43	6	136			
3583	<2	<5	<2	0.6	42	33	52	152	12	464			
3594	100	560	244	202	2770	127	1635	5215	168	136			
43564	4	<10	3.2	208	67	164	409	8	156				
43565	84	340	160	148	2330	301	853	3586	16	202			
43566	4	<10	12	2.6	40	33	39	102	34	90			
43567	4	<10	14	18.4	244	62	5	23	409	4220			
43568	<4	<10	12	0.6	30	111	92	279	4	172			
43569	<4	<10	14	1.8	44	62	5	23	409	4220			
43570	8	30	12	2.2	142	218	220	333	30	472			
43571	<4	<10	<2	0.2	18	30	38	58	6	64			
43572	<4	<10	<2	0.2	18	72	87	15	9	104			
43573	<4	20	8	1.4	170	142	206	274	<2	438			
43574	<4	<10	0.2	14	80	63	74	8	14	74			
43575	<4	<10	<2	0.8	18	35	20	39	<2	24			
43576	<4	<10	8	1.0	10	30	77	43	106	2	240		
43577	<4	<10	<2	1.8	10	12	65	52	4	25			

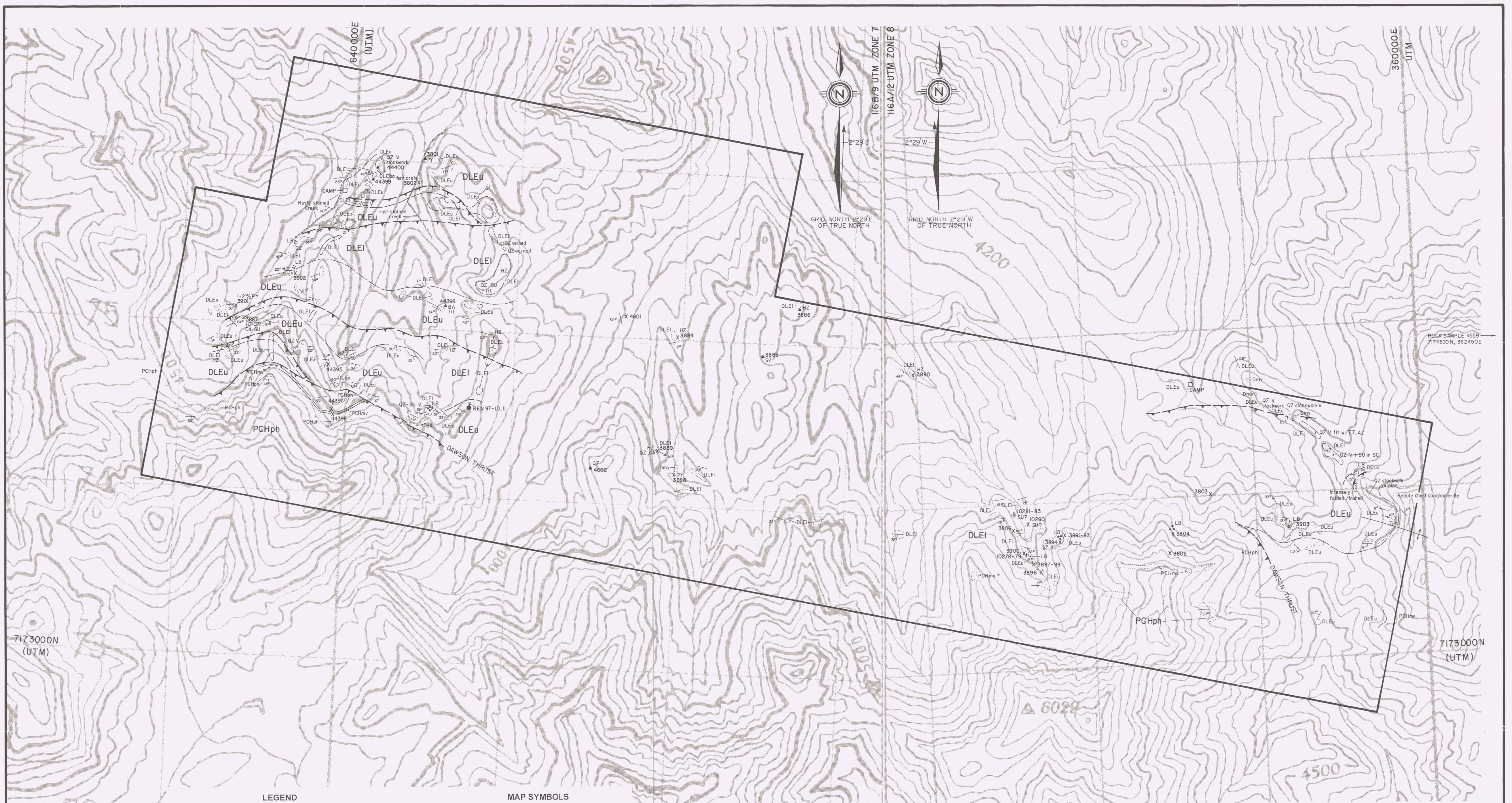
1996 Rock Sample Analyses													
Sample Number	Au (ppb)	Pt (ppb)	Pd (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Ni (ppm)	Pb (ppm)	Zn (ppm)			
44378	<4	<10	<2	0.2	30	56	20	125	<2	910			
44379	2	<5	4	0.6	12	52	7	37	<2	150			
44380	<4	<10	<2	<0.2	6	5	4	<2	<2	810			
44381	10	35	22	2.2	342	91	307	2510	20	1620			
44382	20	95	52	4.8	658	137	819	5410	22	2210			
44383	<4	<10	<2	0.4	30	31	64	394	6	860			
44384	4	<10	4	1.0	56	155	76	895	6	1445			
44385	24	40	20	3.4	452	162	262	3590	42	1635			
44386	<4	<10	<2	0.6	18	34	46	187	2	1020			
44387	<4	<10	<2	0.6	24	35	64	172	6	562			
44388	4	10	4	1.6	26	113	43	449	6	940			
44389	<4	<10	<2	0.2	24	42	16	118	12	564			
44390	16	40	24	3.8	400	149	403	4460	22	7020			
44391	4	<10	4	1.8	44	64	87	753	6	5770			
44392	<4	<10	<2	1.0	14	22	29	36	4	106			
44393	8	<10	8	2.2	82	84	244	194	12	1020			
44394	4	10	12	1.8	60	147	99	65	8	70			

1996 Rock Sample Analyses													
Sample Number	Au (ppb)	Pt (ppb)	Pd (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Ni (ppm)	Pb (ppm)	Zn (ppm)			
4551	14	<5	2	0.4	54	145	84	351	8	1145			
4552	<2	<5	2	<0.2	28	79	52	338	6	2910			
4553	28	210	90	10.6	456	52	348	223	52	532			
4554	<2	5	4	0.8	172	106	85	369	8	1290			
4555	<2	10	10	2.4	22	55	31	62	8	400			
4556	<2	30	22	4.6	620	60	337	231	14	208			
4557	<2	<5	4	1.2	144	88	38	45	8	66			
4558	<2	40	12	3.4	38	75	57	93	8	58			

1994 Rock Sample Analyses													
Sample Number	Au (ppb)	Pt (ppb)	Pd (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Ni (ppm)	Pb (ppm)	Zn (ppm)			
59695	<5	<5	<2	7.8	589	454	1250	25	254				
59697	<5	<5	<2	0.2	68	30	190	6	68				
59698	<5	<5	<2	0.2	100	39	2252	<2	4195				
59699	<5	<5	0.8	103	28	110	6	3150					
59700	<5	<5	<2	0.2	2	1	10	4	90				
59701	<5	<5	2.0	82	67	246	8	1564					
59702	<5	<5	0.2	23	30	52	6	258					
59703	<5	<5	1.8	53	21	133	4	2012					
59704	<5	<5	1.0	40	30	76	<2	1462					
59705	<5	<5	<2	3	6	43	<2	180					
59706	<5	<5	<2	15	4	24	<2	250					
59707	<5	<5	<2	51	13	97	<2	1402					
59708	<5	<5	<2	32	11	40	<2	658					
59709	<5	<5	<2	15	4	10	<2	102					
59710	<5	<5	<2	10	2	50	<2	286					
59711	<5	10	6	0.4	41	138	1614	<2	2764				
59712	<5	<5	0.6	28	9	47	<2	372					
59713	<5	<5	<2	10	27	31	<2	28					
59714	<5	<5	<2	15	26	21	4	12					
59715	<5	<5	<2	1	1	14	<2	26					
59716	<5	<5	1.2	56	42	152	<2	168					
59717	<5	<5	1.4	65	39	125	4	110					
59718	<5	<5	1.0	37	67	56	<2	18					
59719	<5	<5	2.4	72	51	117	<2	1414					
59720	<5	<5	1.4	42	39	93	<2	1235					
59721	<5	<5	<2	1	3	77	<2	410					
59722	<5	<5	0.4	78	28	38	8	56					
59723	<5	<5	<2	1	11	12	<2	16					
59724	<5	<5	0.6	259	23	89	<2	1844					
59725	<5	<5	<2	2	3	37	<2	54					

denotes analyses not completed

1997 Rock Sample Analyses										
Sample Number	Au (ppb)	Pt (ppb)	Pd (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Ni (ppm)	Pb (ppm)	Zn (ppm)
3909	10	5	10	2.4	114	86	22	63	274	51
3910	12	5	10	1.2	34	81	5	42	16	7
3911	16	<5	10	1.4	8	17	2	13	12	



LEGEND

MIDDLE TO UPPER DEVONIAN
Lower Eam Group

DLEu Upper member - chert, cherty argillite, chert pebble conglomerate, barite

DLEba Barite horizon

DLEI Lower member - rhythmic section of argillite, calcareous shale and siltstone, limestone and chert; contains limestone ball member (LB) and barite ball member (BB)

Dmv Mafic volcanic flow

ORDOVICIAN TO SILURIAN
Road River Group

ORsh Calcareous shale

UPPER PROTEROZOIC AND LOWER CAMBRIAN
Hyland Group

PCHph Laminated phyllitic siltstone and shale

PCHmv Mafic volcanic flow

Mapping includes 1994 mapping (Baknes, 1994)

MAP SYMBOLS

Outcrop

Felsenmeer

Lithological contact (defined, inferred)

Bedding (inclined, horizontal, vertical)

Joint (inclined, vertical)

Vein (inclined, vertical)

Cleavage (inclined, vertical)

Fault (slickensides)

Thrust fault

Minor fold (showing plunge direction)

Anticline, syncline

Trench

Rock Sample (float, grab)

Fossil Locality (graptolites, tentaculites)

Limestone balls, barite balls

Diamond drill hole

MINERALIZATION

AZ - azurite BA - barite CA - calcite
GL - galena HZ - hydrozincite PB - pyrobitumen
QZ - quartz SP - sphalerite SU - suvanite
TT - tetrahedrite PY - pyrite VS - vaesite

1996 Rock Sample Analyses													
Sample Number	Au (ppb)	Pt (ppb)	Pd (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Ni (ppm)	Pb (ppm)	Zn (ppm)			
3801	<2	<5	<2	0.2	0.2	81	<1	63	2	82			
3802	<2	<5	<2	0.2	0.2	32	48	522	4	4230			

1996 Rock Sample Analyses													
Sample Number	Au (ppb)	Pt (ppb)	Pd (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Mo (ppm)	Ni (ppm)	Pb (ppm)	Zn (ppm)			
3801	<2	<5	<2	0.2	0.2	81	<1	63	2	82			
3802	<2	<5	<2	0.2	0.2	32	48	522	4	4230			

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BLACKSTONE RESOURCES INC.

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EQUITY ENGINEERING LTD.

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N.T.S.: 1:10,000	SCALE: 1:10,000	5
DATE: DEC. 1997	REVISED:	

APPENDIX A

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APPENDIX B

STATEMENT OF EXPENDITURES

**STATEMENT OF EXPENDITURES
REIN PROPERTY**

August 21-September 7, 1997

CANADA) In the matter of an evaluation program on the Rein property

I, David A. Caulfield for Equity Engineering Ltd., 207 - 675 West Hastings Street, Vancouver, B.C. do solemnly declare that a program consisting of diamond drilling and minor prospecting was carried out on the Rein 9, 11-12, 27, 29, 35-40, 49-50, 60, 62, 76, 100-277 Mineral Claims between August 21 and September 7, 1997. The following expenses were incurred during the course of this work and in the compilation and reporting of results:

PROFESSIONAL FEES AND WAGES:

David A. Caulfield, P.Geo.		
41 days @ \$425/day	\$	17,425.02
Murray Jones, P. Geo.		
1 days @ \$425/day		425.00
Charles Baker, Geologist		
21.625 days @ \$350/day		7,568.75
Jason S. Weber, Geologist		
1.125 days @ \$350/day		393.75
Chris Hope, Senior Sampler		
11 days @ \$275/day		3,025.00
Devon Holbek, Field Assistant		
2 days @ \$275/day		550.00
Matt Henry, Senior Sampler		
1.25 days @ \$275/day		343.75
Malonie Rose, Cook		
17.5 days @ \$300/day		5,250.00
Clerical		
8.25 hours @ \$25/hour		206.25
	\$	35,187.52

EQUIPMENT RENTALS:

Fly Camp		
150 mandays @ \$25/manday	\$	3,750.00
Generator, 5kVA		
14 days @ \$20/day		280.00
4x4 Truck		
9 days @ \$80/day		720.00
4x4 Truck, Standby		
11 days @ \$30/day		330.00
Chainsaw		
14 days @ \$15/day		210.00

EQUIPMENT RENTALS CONTINUED:

Mag Susceptibility Meter		
4 days @ \$10/day	40.00	
Fire Pump		
10 days @ \$10/day	100.00	
Pentium Notebook		
13 days @ \$15/day	195.00	
Core Splitter		
12 days @ \$5/day	60.00	5,685.00

EXPENSES:

Accommodation	1,205.66	
Airfare	7,131.70	
Automotive Fuel	1,018.37	
Bulk Fuel	8,266.62	
Camp Food	3,166.05	
Camp Supplies	5,184.76	
Chemical Analyses	9,332.32	
Contract Construction	10,843.36	
Courier	32.01	
Expediting	450.00	
Fax Charges	11.54	
Freight	4,268.29	
Helicopter Charters	38,310.00	
Maps and Publications	84.64	
Materials and Supplies	2,566.56	
Meals	749.82	
Storage in Dawson City	360.00	
Printing and Reproductions	344.40	
Radio Rental	361.86	
Reclamation	276.79	
Recording Fees	52.50	
Safety Supplies	3.69	
Satellite Phone Rental	1,367.33	
Stationary Supplies	55.91	
Taxis and Airports	142.60	
Telephone Distance Charges	216.62	
Tolls and Airport Taxes	4.67	
Truck Rental (non-Equity)	2,036.71	
Vehicle Repairs	266.43	
Drilling:		
Mob/Demob	7,996.92	
Footage	45,108.50	
Materials	6,499.74	
Standby/Moves/Travel	6,360.00	
Other	900.00	164,976.37

SUB-TOTAL:**\$ 205,848.89**

PROJECT SUPERVISION CHARGE:

12% on 1st \$100,000

\$ 12,202.15

10% on balance of sub-total

10,416.42

22,618.57

REPORT: (estimated)

7,500.00

SUBTOTAL:

\$ 235,967.46

GST:

7.0 % on subtotal

16,517.72

TOTAL:

\$ 252,485.18

APPENDIX C

LIST OF PERSONNEL

LIST OF PERSONNEL

David A. Caulfield, (Project Geologist)
207-675 West Hastings Street
Vancouver, B.C.

Murray I. Jones (P. Geo.)
8606 144A St.
Surrey, B.C.
V3S 2Y2

Jason S. Weber (Geologist)
207-675 West Hastings Street
Vancouver, B.C.
V6B 1N2

Charles Baker (Geologist)
2408-West 1st Ave.
Vancouver, B.C.
V6G-1K6

Matt Henry (Senior Sampler)
301-725 West 70th Ave.
Vancouver, B.C.
V6P 2X3

Chris Hope (Senior Sampler)
207-675 West Hastings Street
Vancouver, B.C.
V6B 1N2

Devon Holbek (Sampler)
2586 Hamm Road
Black Creek B.C.
V9J1B4

APPENDIX D

ROCK SAMPLE DESCRIPTIONS

MINERALS AND ALTERATION TYPES

AT	annabergite	AK	ankerite	AZ	azurite
BA	barite	C	carbon	CA	calcite
GE	goethite	GY	gypsum	GL	galena
GR	graphite	HE	hematite	HZ	hydrozincite
JA	jarosite	MC	malachite	MS	sericite
MR	mariposite	PB	pyrobitumen	PY	pyrite
QZ	quartz	SI	silica	SP	sphalerite
SU	sulvanite	VS	vaesite	VO	volborthite
TT	tetrahedrite				

Rock Sample Descriptions

Project Name: Rein

Project: BLK97-04

NTS: 116B/9

Sample Number:	Grid North:	N	Grid East:	E	Type:	Grab	Alteration:	<u>Au (ppb)</u>	<u>Pt (ppb)</u>	<u>Pd (ppb)</u>	<u>Ag (ppm)</u>
3909	UTM 7181000	N	UTM 633475	E	Strike Length Exp:	1.5	Metallics: 3%PY	10	5	10	2.4
	Elevation 1200	m	Sample Width: 8	m	True Width: 5	m	Secondaries: mGE,mJA	<u>As (ppm)</u>	<u>Mo (ppm)</u>	<u>Ni (ppm)</u>	<u>Zn (ppm)</u>
Rein	Orientation 140°/34° S		Bedding		Host :	chert		114	22	63	518

Comments: Frozen ferricrete-moss? on outcrop. Ferricrete marks the start of pyritic chert beds. Pyrite is extremely fine-grained in wispy laminations, disseminations and irregular clusters (rounded blebs and ghost-like angular clasts).

Sample Number:	Grid North:	N	Grid East:	E	Type:	Grab	Alteration:	<u>Au (ppb)</u>	<u>Pt (ppb)</u>	<u>Pd (ppb)</u>	<u>Ag (ppm)</u>
3910	UTM 7181015	N	UTM 633475	E	Strike Length Exp:	3	Metallics: 3-5%PY	12	5	10	1.2
	Elevation 1190	m	Sample Width: 1	m	True Width: 1	m	Secondaries: mGE, mJA	<u>As (ppm)</u>	<u>Mo (ppm)</u>	<u>Ni (ppm)</u>	<u>Zn (ppm)</u>
Rein	Orientation 120°/32° S		Bedding		Host :	Chert		34	5	42	74

Comments: As above (3909), 20 metres down creek.

Sample Number:	Grid North:	N	Grid East:	E	Type:	Grab	Alteration:	<u>Au (ppb)</u>	<u>Pt (ppb)</u>	<u>Pd (ppb)</u>	<u>Ag (ppm)</u>
3911	UTM 7181070	N	UTM 633475	E	Strike Length Exp:		Metallics: PY	16	<5	10	1.4
	Elevation 1180	m	Sample Width:	cm	True Width:	cm	Secondaries: mGE, mJA	<u>As (ppm)</u>	<u>Mo (ppm)</u>	<u>Ni (ppm)</u>	<u>Zn (ppm)</u>
Rein	Orientation				Host :	Chert		8	2	13	6

Comments: Sample taken downstream from 3910.

APPENDIX E

CERTIFICATES OF ANALYSIS



Chemex Labs 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: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

A9742837

Comments: ATTN: DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

CERTIFICATE

A9742837

(EIA) - EQUITY ENGINEERING LTD.

Project: REIN BLK97-04
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 24-SEP-97.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
299	52	Pulp; prepped on other workorder
229	52	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
2118	52	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	52	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	52	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	52	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	52	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	52	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	52	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	52	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	52	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	52	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	52	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	52	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	52	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	52	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	52	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	52	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	52	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	52	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	52	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	52	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	52	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	52	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	52	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	52	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	52	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	52	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	52	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	52	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	52	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	52	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	52	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	52	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



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To: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

Project: REIN BLK97-04

Comments: ATTN: DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

Page Number :1-A
Total Pages :2
Certificate Date: 24-SEP-97
Invoice No. : I9742837
P.O. Number :
Account : EIA

CERTIFICATE OF ANALYSIS

A9742837

SAMPLE	PREP CODE	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
N299704	299 229	0.4	0.39	24	100	0.5	< 2	3.05	2.5	4	76	58	1.02	< 10	1	0.10	< 10	0.17	65	73
N299705	299 229	0.4	0.36	24	130	0.5	< 2	3.10	1.5	4	72	44	0.91	< 10	< 1	0.09	< 10	0.16	45	71
N299706	299 229	1.2	0.42	138	60	0.5	< 2	4.15	8.0	8	66	94	1.28	< 10	1	0.10	< 10	0.21	45	103
N299707	299 229	1.2	0.41	184	50	< 0.5	< 2	5.15	13.0	34	59	160	1.93	10	1	0.09	10	0.20	70	182
N299708	299 229	2.4	0.25	394	50	0.5	< 2	10.25	47.0	123	37	235	4.07	30	1	0.04	30	1.43	285	314
N299709	299 229	0.8	0.14	106	70	< 0.5	< 2	13.25	5.5	54	20	108	1.52	10	1	0.02	< 10	4.29	355	133
N299710	299 229	3.4	0.28	460	50	0.5	< 2	10.25	39.0	70	48	302	3.92	10	3	0.06	30	1.26	210	330
N299711	299 229	0.6	0.17	100	40	< 0.5	< 2	14.70	12.0	43	23	133	1.52	< 10	1	0.03	10	2.65	235	107
N299712	299 229	2.2	0.24	218	40	0.5	< 2	9.96	27.5	88	40	192	3.11	10	< 1	0.03	20	2.62	370	262
N299713	299 229	0.6	0.12	20	60	< 0.5	< 2	14.70	6.0	63	22	97	1.05	< 10	< 1	0.01	< 10	1.33	215	44
N299714	299 229	0.6	0.33	32	60	0.5	< 2	2.73	10.0	10	114	50	1.41	< 10	< 1	0.08	< 10	0.13	120	80
N299715	299 229	1.0	0.49	58	70	0.5	< 2	4.07	24.0	25	46	62	2.36	< 10	< 1	0.07	< 10	0.49	310	99
N299716	299 229	0.6	0.42	32	50	0.5	< 2	4.77	10.0	24	60	31	3.56	< 10	< 1	0.07	< 10	0.18	610	67
N299717	299 229	0.6	0.08	< 2	70	< 0.5	< 2	>15.00	11.0	18	8	5	2.27	< 10	1	< 0.01	< 10	2.33	445	4
N299718	299 229	0.6	0.15	14	60	< 0.5	< 2	>15.00	27.5	21	16	13	2.48	< 10	1	0.01	< 10	1.11	515	18
N299719	299 229	0.4	0.10	< 2	80	< 0.5	< 2	>15.00	29.0	16	11	1	2.28	< 10	1	< 0.01	< 10	2.38	550	4
N299720	299 229	0.6	0.14	< 2	80	< 0.5	< 2	>15.00	26.5	21	15	2	2.83	< 10	1	< 0.01	< 10	2.38	645	7
N299721	299 229	< 0.2	0.20	< 2	90	< 0.5	< 2	>15.00	85.0	24	12	2	3.16	< 10	1	< 0.01	< 10	3.38	760	10
N299722	299 229	1.2	0.45	86	50	1.0	< 2	3.87	11.0	10	70	35	2.17	< 10	< 1	0.14	< 10	0.49	115	135
N299723	299 229	0.2	0.10	106	110	< 0.5	< 2	>15.00	29.0	38	11	136	2.80	< 10	1	0.01	< 10	0.53	395	47
N299724	299 229	3.4	0.33	334	50	< 0.5	< 2	5.09	7.5	13	43	54	2.89	< 10	1	0.15	10	0.10	125	257
N299725	299 229	0.2	0.59	18	50	0.5	< 2	3.10	15.5	12	75	62	2.58	< 10	< 1	0.11	< 10	0.13	200	67
N299726	299 229	0.6	0.50	28	60	0.5	< 2	4.36	12.5	8	109	50	1.26	< 10	1	0.11	< 10	0.14	150	50
N299727	299 229	1.0	0.36	76	60	0.5	< 2	3.64	11.0	5	113	52	1.20	< 10	1	0.10	< 10	0.15	60	93
N299728	299 229	1.8	0.42	34	130	0.5	< 2	4.66	58.0	3	156	138	0.59	< 10	3	0.11	< 10	0.13	60	48
N299729	299 229	1.6	0.43	28	160	0.5	< 2	5.83	47.5	2	168	95	0.54	< 10	3	0.11	< 10	0.19	35	49
N299730	299 229	1.4	0.46	30	150	0.5	< 2	6.87	43.0	4	147	90	0.78	< 10	4	0.12	< 10	0.26	85	60
N299731	299 229	1.8	0.57	36	140	0.5	< 2	5.63	53.0	4	158	126	0.84	< 10	4	0.15	10	0.24	65	75
N299732	299 229	1.0	0.45	24	150	< 0.5	< 2	0.79	4.0	1	124	30	1.55	< 10	< 1	0.14	< 10	0.13	35	33
N299733	299 229	0.6	1.91	140	60	1.5	< 2	3.66	13.5	12	90	305	3.31	< 10	3	0.09	< 10	1.73	470	81
N299734	299 229	1.2	0.69	26	90	0.5	< 2	2.68	19.5	3	116	62	1.57	< 10	1	0.12	< 10	1.15	280	31
N299735	299 229	1.0	0.60	26	50	0.5	< 2	6.17	15.0	8	116	42	1.60	< 10	1	0.13	< 10	0.38	340	35
N299736	299 229	0.8	0.63	20	50	0.5	< 2	2.21	2.0	1	118	49	1.42	< 10	1	0.13	< 10	0.10	40	29
N299737	299 229	0.4	0.70	14	80	0.5	< 2	1.76	17.5	3	98	77	1.31	< 10	1	0.13	< 10	0.55	110	30
N299738	299 229	0.2	0.27	10	180	< 0.5	< 2	0.19	3.5	2	137	22	0.81	< 10	1	0.08	< 10	0.05	40	24
N299739	299 229	0.4	0.29	12	110	< 0.5	< 2	0.53	4.5	3	135	27	1.04	< 10	< 1	0.08	< 10	0.06	45	29
N299740	299 229	0.6	0.45	16	40	< 0.5	< 2	3.43	11.5	7	91	35	1.21	< 10	1	0.08	< 10	0.46	250	23
N299741	299 229	0.8	0.46	18	80	0.5	< 2	0.74	7.5	3	154	59	1.25	< 10	1	0.11	< 10	0.09	75	33
N299742	299 229	1.0	0.57	38	60	0.5	< 2	1.61	6.5	4	131	61	1.68	< 10	< 1	0.12	< 10	0.14	50	44
N299743	299 229	0.6	0.55	22	90	0.5	< 2	3.29	67.5	21	89	52	2.23	< 10	1	0.08	< 10	1.51	880	37

CERTIFICATION:

[Handwritten signature]



Chemex Labs 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: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

Project : REIN BLK97-04

Comments: ATTN: DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

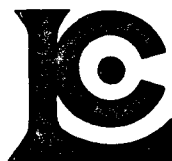
Page Number :1-B
Total Pages :2
Certificate Date: 24-SEP-97
Invoice No. : I9742837
P.O. Number :
Account : EIA

CERTIFICATE OF ANALYSIS

A9742837

SAMPLE	PREP CODE	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
N299704	299 229	0.03	273	310	6	2	3	154	0.02	< 10	10	824	< 10	412
N299705	299 229	0.02	309	360	2	2	3	180	0.01	< 10	10	738	< 10	290
N299706	299 229	0.06	2290	2530	10	8	3	267	0.01	10	30	780	< 10	1025
N299707	299 229	0.20	6690	3450	12	12	3	209	0.01	40	40	690	< 10	3710
N299708	299 229	0.59	>10000	8590	36	30	2	641	0.01	70	70	545	< 10	>10000
N299709	299 229	0.20	>10000	2160	12	6	1	576	< 0.01	10	20	469	< 10	3220
N299710	299 229	0.43	>10000	>10000	38	38	2	484	< 0.01	100	100	549	< 10	8030
N299711	299 229	0.24	8760	8130	12	14	1	391	< 0.01	30	50	404	< 10	4010
N299712	299 229	0.41	>10000	5680	28	26	2	330	< 0.01	30	70	626	< 10	7380
N299713	299 229	0.19	7220	1070	8	2	1	359	< 0.01	< 10	10	321	< 10	3400
N299714	299 229	0.05	1430	340	4	2	3	70	0.03	< 10	10	688	< 10	1030
N299715	299 229	0.16	3270	1310	8	2	2	141	0.01	< 10	30	614	< 10	2960
N299716	299 229	0.15	1200	770	2	2	3	214	0.02	< 10	10	616	< 10	2840
N299717	299 229	0.10	652	250	< 2	2	< 1	707	< 0.01	< 10	< 10	66	< 10	1810
N299718	299 229	0.23	1260	430	< 2	2	< 1	757	< 0.01	< 10	< 10	125	< 10	4180
N299719	299 229	0.27	434	210	< 2	< 2	< 1	717	< 0.01	< 10	< 10	64	< 10	5050
N299720	299 229	0.37	590	200	< 2	2	< 1	868	< 0.01	< 10	< 10	83	< 10	7000
N299721	299 229	0.40	829	170	< 2	< 2	< 1	749	< 0.01	< 10	< 10	101	< 10	7620
N299722	299 229	0.06	815	1970	10	4	2	274	0.07	40	40	726	< 10	1050
N299723	299 229	0.24	2930	220	< 2	< 2	1	765	< 0.01	< 10	< 10	137	< 10	4410
N299724	299 229	0.06	1430	3380	26	20	2	347	< 0.01	80	30	465	< 10	1080
N299725	299 229	0.11	1550	250	2	2	3	95	0.01	< 10	10	941	< 10	2130
N299726	299 229	0.07	415	440	4	2	3	407	< 0.01	< 10	10	948	< 10	1270
N299727	299 229	0.05	431	800	10	4	3	404	0.01	10	10	985	< 10	952
N299728	299 229	0.20	253	1370	4	6	4	476	0.01	< 10	10	2250	< 10	3800
N299729	299 229	0.16	192	660	2	6	4	607	0.01	< 10	< 10	2110	< 10	2930
N299730	299 229	0.16	234	870	2	6	3	668	0.03	< 10	10	2200	< 10	2990
N299731	299 229	0.19	253	1630	6	6	5	709	0.04	< 10	10	2920	< 10	3680
N299732	299 229	0.01	67	880	6	2	2	74	< 0.01	< 10	< 10	438	< 10	240
N299733	299 229	0.13	871	2430	6	8	4	238	< 0.01	< 10	20	1145	< 10	2420
N299734	299 229	0.04	153	1050	6	2	3	210	< 0.01	< 10	< 10	471	< 10	602
N299735	299 229	0.08	190	1030	6	4	3	342	< 0.01	< 10	< 10	488	< 10	1650
N299736	299 229	0.02	84	1810	6	4	3	254	< 0.01	< 10	< 10	478	< 10	396
N299737	299 229	0.03	115	570	8	2	3	123	< 0.01	< 10	< 10	443	< 10	556
N299738	299 229	0.01	80	280	6	2	1	33	< 0.01	< 10	< 10	257	< 10	240
N299739	299 229	0.02	93	360	4	2	1	33	< 0.01	< 10	< 10	288	< 10	336
N299740	299 229	0.06	167	630	2	2	2	139	< 0.01	< 10	< 10	516	< 10	1060
N299741	299 229	0.03	98	880	6	4	1	88	< 0.01	< 10	< 10	522	< 10	516
N299742	299 229	0.04	144	1570	4	8	3	116	< 0.01	< 10	10	763	< 10	694
N299743	299 229	0.28	348	940	6	2	3	181	< 0.01	< 10	< 10	566	< 10	5310

CERTIFICATION: _____



Chemex Labs 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: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

Project : REIN BLK97-04

Comments: ATTN: DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

Page Number :2-A
Total Pages :2
Certificate Date: 24-SEP-97
Invoice No. : 19742837
P.O. Number :
Account : EIA

CERTIFICATE OF ANALYSIS

A9742837

SAMPLE	PREP CODE	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
N299744	299 229	0.2	0.62	12	90	0.5	< 2	1.68	5.5	21	106	21	1.93	< 10	1	0.16	< 10	0.79	555	44
N299745	299 229	0.2	0.64	22	70	0.5	< 2	2.04	2.0	16	85	28	2.11	< 10	1	0.15	< 10	0.51	325	49
N299746	299 229	0.4	0.59	6	130	0.5	< 2	8.17	2.5	5	76	39	0.85	< 10	1	0.14	< 10	1.67	130	43
N299747	299 229	0.6	0.34	16	380	< 0.5	< 2	11.65	1.5	4	66	30	0.78	< 10	1	0.09	< 10	2.38	155	43
N299748	299 229	0.8	0.52	18	140	0.5	< 2	3.52	2.5	5	91	94	1.20	< 10	1	0.14	< 10	1.31	115	98
N299749	299 229	0.4	0.50	16	200	0.5	< 2	4.95	21.0	8	118	45	0.94	< 10	1	0.10	< 10	0.34	160	52
N299750	299 229	0.2	0.38	12	230	< 0.5	< 2	4.63	6.5	4	139	37	0.79	< 10	1	0.09	< 10	0.32	70	50
N299801	299 229	0.6	0.58	22	170	0.5	< 2	4.84	14.5	7	106	48	1.22	< 10	1	0.13	< 10	0.37	180	59
N299802	299 229	0.2	0.43	18	250	0.5	< 2	5.35	7.5	5	114	48	1.05	< 10	1	0.10	< 10	0.43	90	54
N299803	299 229	0.2	0.37	14	280	< 0.5	< 2	4.87	6.0	4	139	48	0.97	< 10	< 1	0.09	< 10	0.34	85	47
N299804	299 229	1.2	0.69	58	100	0.5	< 2	6.15	5.5	10	83	57	1.81	< 10	1	0.15	< 10	0.58	160	101
N299805	299 229	0.6	0.66	14	240	0.5	< 2	>15.00	4.0	3	36	84	0.92	< 10	1	0.10	< 10	1.28	285	32

CERTIFICATION: _____



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To: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

Project : REIN BLK97-04

Comments: ATTN: DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

Page Number :2-B
Total Pages :2
Certificate Date: 24-SEP-97
Invoice No. : I9742837
P.O. Number :
Account : EIA

CERTIFICATE OF ANALYSIS

A9742837

SAMPLE	PREP CODE	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
N299744	299 229	0.17	354	490	4	2	4	72	< 0.01	< 10	< 10	968	< 10	3250
N299745	299 229	0.08	363	320	4	4	3	65	< 0.01	< 10	< 10	1010	< 10	1510
N299746	299 229	0.02	175	180	8	2	3	459	< 0.01	< 10	< 10	802	< 10	382
N299747	299 229	0.01	136	180	4	< 2	3	554	< 0.01	< 10	< 10	406	< 10	200
N299748	299 229	0.03	265	580	8	2	4	232	< 0.01	< 10	10	726	< 10	442
N299749	299 229	0.08	253	360	2	2	3	585	< 0.01	< 10	< 10	758	< 10	1430
N299750	299 229	0.03	138	430	2	2	3	601	< 0.01	< 10	< 10	695	< 10	512
N299801	299 229	0.06	224	410	24	2	4	548	< 0.01	< 10	< 10	968	< 10	1060
N299802	299 229	0.04	191	430	2	< 2	3	704	< 0.01	< 10	< 10	784	< 10	584
N299803	299 229	0.03	164	270	2	< 2	4	642	< 0.01	< 10	< 10	645	< 10	452
N299804	299 229	0.05	1080	1270	8	2	4	726	< 0.01	< 10	10	762	< 10	926
N299805	299 229	0.03	120	400	2	< 2	2	1425	0.01	< 10	< 10	505	< 10	440

CERTIFICATION:

David A. Caulfield



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To: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

A9742836

Comments: ATTN: DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

CERTIFICATE

A9742836

(EIA) - EQUITY ENGINEERING LTD.

Project: REIN BLK97-04
P.O.#:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 24-SEP-97.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	52	Geochem ring to approx 150 mesh
226	52	0-3 Kg crush and split
3202	52	Rock - save entire reject
232	52	Perchloric-nitric-HF digestion

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	52	Au ppb: ICP-fluorescence package	FA-ICP-AFS	2	10000
976	52	Pt ppb: ICP-Fluorescence package	FA-ICP-AFS	5	10000
977	52	Pd ppb: ICP-fluorescence package	FA-ICP-AFS	2	10000
25	52	Ba ppm: HClO4-HNO3-HF digestion	AAS	10	10000



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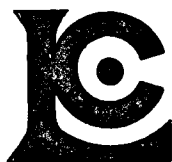
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P.O. Number :
Account : EIA

CERTIFICATE OF ANALYSIS

A9742836

SAMPLE	PREP CODE		Au ppb AFS	Pt ppb AFS	Pd ppb AFS	Ba ppm						
N299704	205	226	4	< 5	4	3200						
N299705	205	226	2	< 5	4	2800						
N299706	205	226	18	30	24	5000						
N299707	205	226	8	50	30	9700						
N299708	205	226	12	105	62	9500						
N299709	205	226	4	20	18	8100						
N299710	205	226	14	130	78	9800						
N299711	205	226	6	25	18	>10000						
N299712	205	226	6	50	32	>10000						
N299713	205	226	2	5	6	>10000						
N299714	205	226	2	< 5	4	7500						
N299715	205	226	4	5	8	9600						
N299716	205	226	2	< 5	4	2800						
N299717	205	226	< 2	< 5	< 2	>10000						
N299718	205	226	< 2	5	4	>10000						
N299719	205	226	< 2	< 5	< 2	4800						
N299720	205	226	< 2	< 5	2	2300						
N299721	205	226	< 2	< 5	< 2	3100						
N299722	205	226	6	10	6	3800						
N299723	205	226	< 2	< 5	< 2	700						
N299724	205	226	12	50	36	>10000						
N299725	205	226	< 2	< 5	4	8400						
N299726	205	226	< 2	< 5	4	4300						
N299727	205	226	4	15	12	4300						
N299728	205	226	2	< 5	8	2900						
N299729	205	226	4	< 5	8	2700						
N299730	205	226	< 2	5	6	3800						
N299731	205	226	< 2	< 5	8	3400						
N299732	205	226	6	< 5	6	2000						
N299733	205	226	4	< 10	4	8000						
N299734	205	226	6	5	6	4500						
N299735	205	226	2	< 5	6	5000						
N299736	205	226	2	< 5	8	5200						
N299737	205	226	2	< 5	4	1060						
N299738	205	226	< 2	< 5	6	580						
N299739	205	226	< 2	5	6	700						
N299740	205	226	2	< 5	4	9800						
N299741	205	226	< 2	< 5	2	>10000						
N299742	205	226	< 2	< 5	8	5000						
N299743	205	226	< 2	< 5	4	2000						

CERTIFICATION: David A. Caulfield



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To: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

Project : REIN BLK97-04

Comments: ATTN: DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

Page Number :2
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Invoice No. : I9742836
P.O. Number :
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CERTIFICATE OF ANALYSIS

A9742836

SAMPLE	PREP CODE		Au ppb AFS	Pt ppb AFS	Pd ppb AFS	Ba ppm						
N299744	205	226	< 2	< 5	4	> 10000						
N299745	205	226	2	< 5	4	1800						
N299746	205	226	< 2	< 5	2	500						
N299747	205	226	< 2	< 5	2	600						
N299748	205	226	< 2	< 5	4	500						
N299749	205	226	2	< 5	4	700						
N299750	205	226	< 2	< 5	4	620						
N299801	205	226	< 2	< 5	2	300						
N299802	205	226	< 2	< 5	2	300						
N299803	205	226	< 2	< 5	2	520						
N299804	205	226	2	5	6	500						
N299805	205	226	< 2	< 5	4	580						

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To: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

A9748581

Comments: ATTN: DAVID CAULFIELD CC: BRIAN BUTTERWORTH

CERTIFICATE

A9748581

(EIA) - EQUITY ENGINEERING LTD.

Project: BLK97-04
P.O.#:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 5-NOV-97.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	144	Geochem ring to approx 150 mesh
226	144	0-3 Kg crush and split
3202	144	Rock - save entire reject
229	144	ICP - AQ Digestion charge
* NOTE 1:		

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	144	Au ppb: ICP-fluorescence package	FA-ICP-AFS	2	10000
976	144	Pt ppb: ICP-Fluorescence package	FA-ICP-AFS	5	10000
977	144	Pd ppb: ICP-fluorescence package	FA-ICP-AFS	2	10000
2118	144	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	144	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	144	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	144	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	144	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	144	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	144	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	144	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	144	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	144	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	144	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	144	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	144	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
20	144	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
2132	144	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	144	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	144	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	144	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	144	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	144	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	144	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	144	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	144	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	144	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	144	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	144	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	144	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	144	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	144	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	144	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	144	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	144	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000
3551	144	Ba %: XRF	XRF	0.1	100.0



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To: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

Project : BLK97-04

Comments: ATTN: DAVID CAULFIELD CC: BRIAN BUTTERWORTH

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Total Pages : 4

Certificate Date: 05-NOV-97

Invoice No. : I9748581

P.O. Number :

Account : EIA

CERTIFICATE OF ANALYSIS

A9748581

SAMPLE	PREP CODE	Au ppb AFS	Pt ppb AFS	Pd ppb AFS	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm
N299751	205 226	8	< 5	< 2	0.2	1.37	24	90	1.0	< 2	4.04	35.5	6	77	211	1.28	< 10	130	0.11	< 10
N299752	205 226	< 2	< 5	< 2	0.2	0.87	20	110	0.5	< 2	4.58	17.5	8	70	156	1.42	< 10	130	0.10	< 10
N299753	205 226	12	< 5	< 2	0.2	0.82	22	120	0.5	< 2	3.71	10.5	7	62	38	1.59	< 10	120	0.12	< 10
N299754	205 226	< 2	< 5	< 2	0.2	0.72	18	100	0.5	< 2	3.10	28.5	10	59	32	2.27	< 10	110	0.10	< 10
N299755	205 226	6	< 5	< 2	< 0.2	1.01	20	90	0.5	< 2	2.62	37.5	8	60	25	1.58	< 10	140	0.09	< 10
N299756	205 226	< 2	< 5	< 2	0.2	0.97	24	90	0.5	< 2	3.17	40.5	12	64	56	2.21	< 10	130	0.09	< 10
N299757	205 226	2	< 5	< 2	0.2	0.70	20	80	0.5	< 2	2.88	29.0	13	52	48	2.21	< 10	130	0.08	< 10
N299758	205 226	2	< 5	< 2	0.2	0.49	16	80	0.5	< 2	5.70	17.5	8	45	49	1.27	< 10	140	0.07	< 10
N299759	205 226	4	5	6	1.2	1.06	32	100	0.5	< 2	1.15	15.0	5	79	326	1.55	< 10	240	0.13	< 10
N299760	205 226	6	5	8	1.2	0.67	34	110	< 0.5	< 2	0.19	14.5	4	56	180	2.04	< 10	250	0.21	< 10
N299761	205 226	6	< 5	6	1.2	1.18	26	60	0.5	< 2	0.14	43.5	9	56	137	2.16	< 10	240	0.28	< 10
N299762	205 226	12	< 5	8	1.4	0.99	24	60	0.5	< 2	0.25	2.5	4	53	47	2.52	< 10	270	0.32	< 10
N299763	205 226	18	< 5	12	1.6	0.90	32	60	0.5	< 2	4.17	3.5	4	68	120	2.38	< 10	230	0.24	< 10
N299764	205 226	20	5	14	1.6	0.80	32	100	0.5	< 2	0.15	9.0	5	94	85	1.62	< 10	310	0.23	< 10
N299765	205 226	2	< 5	< 2	0.6	0.47	18	160	0.5	< 2	3.19	8.5	3	80	53	1.03	< 10	180	0.13	< 10
N299766	205 226	4	< 5	4	0.8	0.43	22	170	0.5	< 2	1.92	5.0	3	66	35	1.14	< 10	170	0.12	< 10
N299767	205 226	4	< 5	4	0.8	0.50	22	160	0.5	< 2	1.38	6.0	3	69	45	1.10	< 10	160	0.12	< 10
N299768	205 226	< 2	< 5	< 2	0.6	0.43	18	280	0.5	< 2	1.23	3.0	2	73	24	0.95	< 10	150	0.11	< 10
N299769	205 226	< 2	< 5	< 2	0.4	0.37	14	270	0.5	< 2	7.60	6.0	4	45	17	0.79	< 10	140	0.06	< 10
N299770	205 226	< 2	< 5	< 2	0.4	0.49	20	130	0.5	< 2	2.44	10.5	5	77	113	1.15	< 10	140	0.09	< 10
N299771	205 226	< 2	< 5	< 2	0.2	0.53	18	90	0.5	< 2	3.20	12.0	8	49	34	1.48	< 10	120	0.09	< 10
N299772	205 226	< 2	< 5	< 2	0.4	0.27	16	150	< 0.5	< 2	4.51	5.0	4	42	37	0.88	< 10	110	0.06	< 10
N299773	205 226	< 4	< 10	4	2.2	0.39	26	210	0.5	< 2	3.33	56.5	2	168	91	0.48	< 10	420	0.09	< 10
N299774	205 226	< 2	< 5	6	2.6	0.46	30	190	0.5	< 2	4.60	72.5	2	172	134	0.53	< 10	480	0.12	< 10
N299775	205 226	< 2	< 5	2	1.0	0.50	6	90	0.5	< 2	5.36	9.0	2	85	71	0.91	< 10	190	0.08	< 10
N299776	205 226	< 2	< 5	< 2	0.8	0.29	8	280	< 0.5	< 2	0.41	3.0	1	206	27	0.85	< 10	130	0.11	< 10
N299777	205 226	< 2	< 5	< 2	0.8	0.32	6	420	< 0.5	< 2	0.22	2.5	< 1	266	23	0.84	< 10	140	0.11	< 10
N299778	205 226	< 2	< 5	< 2	0.4	0.18	12	190	< 0.5	< 2	2.13	1.5	3	111	21	0.82	< 10	80	0.06	< 10
N299779	205 226	< 2	< 5	< 2	0.2	0.37	8	180	0.5	< 2	4.22	7.0	6	121	22	0.70	< 10	90	0.06	< 10
N299780	205 226	< 2	< 5	2	0.6	0.67	44	50	0.5	< 2	9.55	28.5	19	85	110	0.90	< 10	100	0.09	< 10
N299781	205 226	2	< 5	2	0.8	0.37	14	210	0.5	< 2	8.47	16.0	3	94	63	0.69	< 10	200	0.10	< 10
N299782	205 226	< 2	< 5	< 2	0.6	0.28	12	180	0.5	< 2	3.79	3.0	3	116	46	0.90	< 10	100	0.08	< 10
N299783	205 226	< 2	< 5	< 2	0.6	0.24	10	190	0.5	< 2	7.66	3.5	3	68	48	0.71	< 10	90	0.06	< 10
N299784	205 226	4	< 5	< 2	1.0	0.27	16	180	0.5	< 2	2.54	15.0	3	102	58	0.76	< 10	190	0.07	< 10
N299785	205 226	< 2	< 5	< 2	0.8	0.41	16	210	0.5	< 2	3.08	8.0	4	131	47	0.96	< 10	180	0.10	< 10
N299786	205 226	6	< 5	4	1.0	0.62	26	80	< 0.5	< 2	1.61	5.0	< 1	118	66	0.99	< 10	190	0.10	< 10
N299787	205 226	< 2	< 5	< 2	0.4	0.70	20	60	0.5	< 2	3.87	16.0	6	76	64	2.04	< 10	80	0.10	< 10
N299788	205 226	< 2	< 5	< 2	0.6	0.51	28	30	0.5	< 2	3.79	12.0	5	155	128	1.59	< 10	140	0.10	< 10
N299789	205 226	< 2	< 5	4	0.8	0.30	40	130	0.5	< 2	0.90	2.5	< 1	116	75	1.06	< 10	180	0.12	< 10
N299790	205 226	< 2	< 5	< 2	0.6	0.27	16	40	0.5	< 2	2.75	23.0	5	83	187	1.01	< 10	170	0.09	< 10

CERTIFICATION:

[Signature]



Chemex Labs 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: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

Project : BLK97-04

Comments: ATTN: DAVID CAULFIELD CC: BRIAN BUTTERWORTH

Page Number :1-B
Total Pages :4
Certificate Date: 05-NOV-97
Invoice No. :19748581
P.O. Number :
Account :EIA

CERTIFICATE OF ANALYSIS

A9748581

SAMPLE	PREP CODE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Ba XRF %
N299751	205 226	0.20	80	53 < 0.01	302	960	4	< 2	4	624 < 0.01	< 10	< 10	1075	< 10	1465	0.2		
N299752	205 226	0.39	105	52 < 0.01	263	530	4	< 2	3	754 < 0.01	< 10	< 10	988	< 10	1210	0.2		
N299753	205 226	0.19	85	60 < 0.01	267	400	6	< 2	4	615 < 0.01	< 10	< 10	1005	< 10	852	0.2		
N299754	205 226	0.27	135	41 < 0.01	247	550	< 2	< 2	4	404 < 0.01	< 10	< 10	844	< 10	1665	0.2		
N299755	205 226	0.12	100	43 < 0.01	167	330	< 2	< 2	4	300 < 0.01	< 10	< 10	757	< 10	1835	0.1		
N299756	205 226	0.17	155	55 < 0.01	288	890	2	< 2	4	452 < 0.01	< 10	< 10	788	< 10	2020	0.1		
N299757	205 226	0.13	160	52 < 0.01	288	740	4	< 2	4	374 < 0.01	< 10	< 10	607	< 10	2160	0.4		
N299758	205 226	0.57	185	44 < 0.01	258	440	2	< 2	3	721 0.01	< 10	< 10	669	< 10	1210	0.5		
N299759	205 226	0.23	60	51 < 0.01	188	770	8	2	2	187 < 0.01	< 10	< 10	469	< 10	690	0.6		
N299760	205 226	0.18	40	20 < 0.01	93	320	18	< 2	4	69 < 0.01	< 10	< 10	395	< 10	632	0.5		
N299761	205 226	0.20	60	26 < 0.01	164	400	6	2	2	22 < 0.01	< 10	< 10	352	< 10	1555	0.8		
N299762	205 226	0.07	20	15 0.02	53	880	12	< 2	1	31 < 0.01	< 10	< 10	252	< 10	182	0.3		
N299763	205 226	0.87	195	9 0.01	83	750	12	< 2	4	606 < 0.01	< 10	< 10	349	< 10	346	0.3		
N299764	205 226	0.09	35	9 0.01	80	420	12	2	1	27 < 0.01	< 10	< 10	269	< 10	366	0.4		
N299765	205 226	0.13	75	40 < 0.01	142	600	6	< 2	2	408 < 0.01	< 10	< 10	765	< 10	494	0.3		
N299766	205 226	0.16	55	56 < 0.01	143	380	6	< 2	2	245 < 0.01	< 10	< 10	774	< 10	408	0.3		
N299767	205 226	0.30	40	38 < 0.01	133	270	6	< 2	3	103 < 0.01	< 10	< 10	638	< 10	570	0.3		
N299768	205 226	0.27	35	48 < 0.01	116	220	6	2	2	121 < 0.01	< 10	< 10	675	< 10	388	0.3		
N299769	205 226	3.82	180	57 < 0.01	153	130	< 2	< 2	3	596 < 0.01	< 10	< 10	372	< 10	240	0.3		
N299770	205 226	0.32	95	74 < 0.01	193	330	6	< 2	3	232 < 0.01	< 10	< 10	756	< 10	620	0.4		
N299771	205 226	0.13	180	47 < 0.01	252	340	4	< 2	3	315 < 0.01	< 10	< 10	623	< 10	1350	0.3		
N299772	205 226	0.73	115	48 < 0.01	209	270	2	< 2	3	452 < 0.01	< 10	< 10	668	< 10	608	0.3		
N299773	205 226	0.15	35	57 < 0.01	163	800	4	4	3	378 0.03	< 10	< 10	2190	< 10	4220	0.2		
N299774	205 226	0.15	35	63 < 0.01	189	1290	2	4	4	517 0.03	< 10	< 10	2780	< 10	5040	0.2		
N299775	205 226	0.78	165	22 < 0.01	113	910	6	< 2	1	525 < 0.01	< 10	< 10	395	< 10	664	0.5		
N299776	205 226	0.08	25	25 < 0.01	38	190	6	< 2	1	61 < 0.01	< 10	< 10	328	< 10	214	0.5		
N299777	205 226	0.06	30	21 < 0.01	37	110	4	< 2	1	46 < 0.01	< 10	< 10	353	< 10	188	0.5		
N299778	205 226	1.06	185	38 < 0.01	112	100	2	< 2	4	144 < 0.01	< 10	< 10	262	< 10	204	0.4		
N299779	205 226	2.33	365	35 0.02	228	100	2	< 2	11	288 < 0.01	< 10	< 10	616	< 10	564	0.2		
N299780	205 226	0.65	325	63 < 0.01	2490	1380	2	< 2	3	364 < 0.01	< 10	< 10	429	< 10	3740	0.4		
N299781	205 226	0.38	75	56 < 0.01	166	500	2	< 2	3	318 < 0.01	< 10	< 10	1065	< 10	1225	0.4		
N299782	205 226	0.18	50	63 < 0.01	203	360	2	< 2	3	281 < 0.01	< 10	< 10	502	< 10	308	0.3		
N299783	205 226	1.18	110	44 0.01	183	240	4	< 2	3	474 < 0.01	< 10	< 10	590	< 10	362	0.3		
N299784	205 226	0.18	55	53 < 0.01	159	410	6	< 2	2	245 0.01	< 10	< 10	875	< 10	1560	0.4		
N299785	205 226	0.25	60	90 < 0.01	278	390	4	2	3	322 0.06	< 10	< 10	1450	< 10	788	0.4		
N299786	205 226	0.09	20	28 < 0.01	38	2380	2	4	2	236 < 0.01	< 10	< 10	493	< 10	246	2.1		
N299787	205 226	0.37	190	41 < 0.01	233	760	< 2	< 2	5	196 0.04	< 10	< 10	631	< 10	1130	8.4		
N299788	205 226	0.14	135	67 < 0.01	227	690	< 2	2	4	263 0.03	< 10	< 10	711	< 10	1210	3.4		
N299789	205 226	0.07	15	70 < 0.01	71	370	6	2	3	82 0.03	< 10	< 10	615	< 10	216	2.1		
N299790	205 226	0.10	195	69 < 0.01	216	180	< 2	4	4	38 0.06	< 10	< 10	620	< 10	2470	3.5		

CERTIFICATION:

David Caulfield



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
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To: EQUITY ENGINEERING LTD.

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VANCOUVER, BC
V6B 1N2

Project: BLK97-04

Comments: ATTN: DAVID CAULFIELD CC: BRIAN BUTTERWORTH

Page Number :2-A
Total Pages :4
Certificate Date: 05-NOV-97
Invoice No. : I9748581
P.O. Number :
Account : EIA

CERTIFICATE OF ANALYSIS

A9748581

SAMPLE	PREP CODE	Au ppb AFS	Pt ppb AFS	Pd ppb AFS	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm
N299791	205 226	4	< 10	< 4	0.4	0.37	30	60	0.5	< 2	1.77	6.0	3	108	64	2.88	< 10	140	0.08	< 10
N299792	205 226	< 2	< 5	< 2	0.6	0.23	26	190	0.5	< 2	0.45	0.5	< 1	96	23	1.56	< 10	140	0.12	< 10
N299793	205 226	< 2	< 5	< 2	0.2	0.37	16	90	0.5	< 2	4.93	22.0	5	73	37	1.16	< 10	80	0.04	< 10
N299794	205 226	< 2	< 5	< 2	0.6	0.32	16	150	0.5	< 2	7.09	7.5	4	52	25	0.80	< 10	110	0.06	< 10
N299795	205 226	< 2	< 5	< 2	0.2	0.29	16	60	< 0.5	< 2	13.00	4.0	4	81	26	1.13	< 10	90	0.05	< 10
N299796	205 226	< 2	< 5	< 2	0.6	0.32	24	160	0.5	< 2	2.14	8.5	5	70	39	1.28	< 10	180	0.07	< 10
N299797	205 226	< 2	< 5	< 2	0.4	0.29	18	140	0.5	< 2	2.33	2.5	4	95	38	1.07	< 10	110	0.08	< 10
N299798	205 226	2	< 5	2	1.0	0.56	16	130	0.5	< 2	3.17	26.5	6	93	68	1.49	< 10	160	0.09	< 10
N299799	205 226	< 2	< 5	< 2	0.6	0.28	< 2	80	< 0.5	< 2	14.10	17.0	3	47	19	0.32	< 10	50	0.04	< 10
N299800	205 226	4	< 5	4	1.0	0.50	22	150	0.5	< 2	1.06	6.0	2	131	57	1.70	< 10	160	0.12	< 10
N299806	205 226	2	< 5	< 2	0.6	0.86	30	110	0.5	< 2	1.97	3.5	4	176	71	1.27	< 10	170	0.16	< 10
N299807	205 226	< 2	< 5	< 2	0.2	0.41	2	1060	0.5	< 2	>15.00	2.0	1	33	40	0.42	< 10	80	0.06	< 10
N299808	205 226	< 2	< 5	< 2	0.4	0.59	12	210	0.5	< 2	8.78	4.5	3	86	51	0.75	< 10	180	0.11	< 10
N299809	205 226	< 2	< 5	< 2	< 0.2	0.14	< 2	1030	< 0.5	< 2	>15.00	2.5	< 1	20	73	0.18	< 10	60	0.03	< 10
N299810	205 226	< 2	< 5	< 2	0.6	0.40	14	220	< 0.5	< 2	6.16	3.0	3	46	31	0.86	< 10	120	0.11	< 10
N299811	205 226	< 2	< 5	< 2	0.4	0.39	18	190	< 0.5	< 2	5.55	4.0	4	44	36	0.92	< 10	160	0.10	< 10
N299812	205 226	< 2	< 5	< 2	0.2	0.41	14	300	< 0.5	< 2	6.07	3.5	3	58	33	0.83	< 10	150	0.11	< 10
N299813	205 226	< 2	< 5	< 2	0.4	0.34	14	290	< 0.5	< 2	5.21	3.0	3	50	31	0.76	< 10	120	0.09	< 10
N299814	205 226	< 2	< 5	< 2	0.4	0.51	14	320	0.5	< 2	5.48	4.0	3	54	39	0.84	< 10	150	0.13	< 10
N299815	205 226	< 2	< 5	< 2	0.4	0.38	14	300	< 0.5	< 2	5.96	3.5	3	85	37	0.83	< 10	130	0.11	< 10
N299816	205 226	< 2	< 5	< 2	0.4	0.43	18	270	< 0.5	< 2	7.79	3.5	4	53	37	0.98	< 10	160	0.11	< 10
N299817	205 226	< 2	< 5	< 2	0.4	0.52	14	520	0.5	< 2	8.30	3.5	4	53	39	0.95	< 10	180	0.13	< 10
N299818	205 226	< 2	< 5	< 2	0.6	0.59	16	210	< 0.5	< 2	4.68	4.0	4	74	37	1.02	< 10	240	0.14	< 10
N299819	205 226	< 2	< 5	< 2	0.4	0.41	14	210	< 0.5	< 2	4.94	3.5	5	62	27	1.11	< 10	210	0.09	< 10
N299820	205 226	< 2	< 5	< 2	< 0.2	0.17	< 2	520	< 0.5	< 2	>15.00	1.5	< 1	9	5	0.14	< 10	30	< 0.01	< 10
N299821	205 226	< 2	< 5	< 2	0.6	0.47	16	210	< 0.5	< 2	6.11	4.5	3	62	40	0.88	< 10	180	0.11	< 10
N299822	205 226	< 2	< 5	< 2	1.0	0.40	44	130	< 0.5	< 2	4.47	7.5	4	58	39	1.10	< 10	220	0.12	< 10
N299823	205 226	< 2	< 5	< 2	0.8	0.29	24	200	< 0.5	< 2	6.63	5.5	3	58	52	1.05	< 10	130	0.10	< 10
N299824	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
N299825	205 226	< 2	< 5	< 2	0.6	0.49	24	180	0.5	< 2	4.57	4.5	4	71	30	1.12	< 10	120	0.14	< 10
N299826	205 226	< 2	< 5	< 2	0.6	0.49	22	180	0.5	< 2	4.40	4.5	4	65	53	0.97	< 10	120	0.14	< 10
N299827	205 226	< 2	< 5	< 2	0.4	0.42	24	160	0.5	< 2	4.76	3.5	4	57	25	0.95	< 10	110	0.12	< 10
N299828	205 226	< 2	< 5	< 2	0.4	0.46	16	220	0.5	< 2	4.59	4.0	3	111	35	0.88	< 10	100	0.13	< 10
N299829	205 226	< 2	< 5	< 2	0.4	0.45	12	200	0.5	< 2	4.18	4.5	3	54	31	0.78	< 10	110	0.12	< 10
N299830	205 226	< 2	< 5	< 2	0.4	0.31	20	210	< 0.5	< 2	6.19	3.5	3	65	39	0.79	< 10	80	0.09	< 10
N299831	205 226	< 2	< 5	< 2	0.6	0.40	24	90	0.5	< 2	2.56	3.0	5	95	39	1.21	< 10	100	0.12	< 10
N299832	205 226	< 2	< 5	< 2	0.4	0.45	20	320	0.5	< 2	6.12	2.0	4	45	31	0.88	< 10	90	0.10	< 10
N299833	205 226	< 2	< 5	< 2	0.4	0.55	12	290	0.5	< 2	5.16	1.5	5	62	24	0.94	< 10	90	0.12	< 10
N299834	205 226	< 2	< 5	< 2	0.6	0.49	18	230	0.5	< 2	5.46	2.5	4	63	60	1.01	< 10	120	0.13	< 10
N299835	205 226	< 2	< 5	< 2	0.6	0.41	26	190	0.5	< 2	4.78	3.0	4	60	52	0.94	< 10	120	0.11	< 10

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N299791	205 226	0.16	70	64 < 0.01		184	390	< 2	< 2	9	94	0.02	< 10	10	749	< 10	534	0.9
N299792	205 226	0.08	5	66 < 0.01		49	400	2	2	2	42	0.01	< 10	< 10	401	< 10	56	1.2
N299793	205 226	2.43	220	45 0.01		308	130	< 2	< 2	4	220	< 0.01	< 10	< 10	463	< 10	484	1.9
N299794	205 226	3.50	295	40 0.01		190	540	< 2	< 2	2	298	0.02	< 10	< 10	336	< 10	860	5.5
N299795	205 226	0.28	190	63 < 0.01		370	370	< 2	< 2	4	371	0.01	< 10	10	426	< 10	588	1.3
N299796	205 226	0.12	95	70 < 0.01		297	450	< 2	2	3	146	< 0.01	< 10	< 10	558	< 10	928	0.6
N299797	205 226	0.11	40	67 < 0.01		219	340	2	< 2	3	144	0.01	< 10	< 10	603	< 10	326	0.7
N299798	205 226	1.22	395	26 < 0.01		183	1060	2	< 2	3	227	< 0.01	< 10	< 10	414	< 10	1375	0.7
N299799	205 226	7.23	925	4 0.02		85	390	< 2	< 2	1	833	< 0.01	< 10	< 10	190	< 10	796	1.7
N299800	205 226	0.12	50	34 < 0.01		96	1090	6	4	3	124	< 0.01	< 10	< 10	387	< 10	364	0.8
N299806	205 226	0.22	60	71 < 0.01		226	530	2	< 2	4	159	0.01	< 10	< 10	852	< 10	232	1.1
N299807	205 226	0.33	165	24 < 0.01		86	290	4	< 2	1	1465	< 0.01	< 10	< 10	322	< 10	94	0.7
N299808	205 226	0.36	105	55 < 0.01		171	420	2	< 2	2	782	< 0.01	< 10	< 10	699	< 10	396	0.7
N299809	205 226	0.41	155	7 < 0.01		23	150	< 2	< 2	< 1	966	< 0.01	< 10	< 10	168	< 10	136	0.2
N299810	205 226	0.15	75	48 < 0.01		152	280	10	< 2	3	636	< 0.01	< 10	< 10	474	< 10	240	0.5
N299811	205 226	0.11	75	59 < 0.01		189	410	20	2	3	661	< 0.01	< 10	< 10	449	< 10	542	0.3
N299812	205 226	0.13	65	49 < 0.01		159	340	8	< 2	3	770	< 0.01	< 10	< 10	510	< 10	328	0.3
N299813	205 226	0.12	60	43 < 0.01		142	350	< 2	< 2	2	585	< 0.01	< 10	< 10	424	< 10	262	0.3
N299814	205 226	0.20	65	54 < 0.01		163	350	2	< 2	3	701	< 0.01	< 10	< 10	632	< 10	380	0.3
N299815	205 226	0.16	60	57 < 0.01		148	500	< 2	< 2	3	744	< 0.01	< 10	< 10	452	< 10	414	0.2
N299816	205 226	0.25	70	58 < 0.01		168	410	2	< 2	3	796	< 0.01	< 10	< 10	485	< 10	366	0.2
N299817	205 226	0.37	85	51 < 0.01		159	410	2	< 2	3	909	< 0.01	< 10	< 10	546	< 10	418	0.2
N299818	205 226	0.19	85	61 < 0.01		197	390	2	< 2	3	537	< 0.01	< 10	< 10	627	< 10	616	0.2
N299819	205 226	0.09	140	52 < 0.01		182	400	2	< 2	2	593	< 0.01	< 10	< 10	363	< 10	818	0.2
N299820	205 226	1.08	285	3 < 0.01		18	250	4	< 2	< 1	1110	< 0.01	< 10	< 10	137	< 10	30	< 0.1
N299821	205 226	0.21	125	58 < 0.01		181	410	6	< 2	2	567	< 0.01	< 10	< 10	560	< 10	570	0.2
N299822	205 226	0.11	75	93 < 0.01		245	690	6	2	3	483	< 0.01	< 10	< 10	473	< 10	736	0.2
N299823	205 226	0.13	70	84 < 0.01		232	660	6	< 2	3	622	< 0.01	< 10	10	297	< 10	436	0.3
N299824	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
N299825	205 226	0.27	55	57 < 0.01		165	450	8	< 2	4	557	< 0.01	< 10	< 10	644	< 10	334	0.5
N299826	205 226	0.24	55	52 < 0.01		168	530	6	< 2	3	533	< 0.01	< 10	< 10	752	< 10	372	0.5
N299827	205 226	0.17	55	46 < 0.01		156	180	4	< 2	3	499	< 0.01	< 10	< 10	674	< 10	302	0.6
N299828	205 226	0.19	50	42 < 0.01		149	270	4	4	3	513	< 0.01	< 10	< 10	747	< 10	328	0.6
N299829	205 226	0.32	50	38 < 0.01		135	410	2	< 2	3	466	< 0.01	< 10	< 10	701	< 10	432	0.5
N299830	205 226	0.18	85	45 < 0.01		142	150	< 2	< 2	3	378	< 0.01	< 10	< 10	460	< 10	326	0.5
N299831	205 226	0.19	50	72 < 0.01		210	300	6	2	4	225	< 0.01	< 10	< 10	530	< 10	314	0.7
N299832	205 226	2.04	160	49 < 0.01		148	430	6	< 2	3	403	< 0.01	< 10	< 10	212	< 10	156	0.3
N299833	205 226	1.51	115	90 < 0.01		193	470	6	< 2	3	376	< 0.01	< 10	< 10	196	< 10	110	0.3
N299834	205 226	0.31	65	80 < 0.01		214	490	6	2	4	551	< 0.01	< 10	< 10	493	< 10	236	0.3
N299835	205 226	0.19	55	95 < 0.01		239	350	6	6	3	514	< 0.01	< 10	10	585	< 10	362	0.2

CERTIFICATION:

David Caulfield



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221 FAX: 604-984-0218

To: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

Project : BLK97-04

Comments: ATTN: DAVID CAULFIELD CC: BRIAN BUTTERWORTH

Page Number :3-A
Total Pages :4
Certificate Date: 05-NOV-97
Invoice No. : I9748581
P.O. Number :
Account : EIA

CERTIFICATE OF ANALYSIS

A9748581

SAMPLE	PREP CODE	Au ppb AFS	Pt ppb AFS	Pd ppb AFS	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm
N299836	205 226	< 2	< 5	< 2	0.6	0.47	32	210	0.5	< 2	5.55	3.5	3	74	50	0.87	< 10	130	0.12	< 10
N299837	205 226	< 2	< 5	< 2	0.6	0.48	34	170	0.5	< 2	2.93	5.5	3	88	42	0.82	< 10	120	0.13	< 10
N299838	205 226	< 2	< 5	< 2	0.6	0.57	32	290	0.5	< 2	5.09	6.5	3	108	50	0.85	< 10	150	0.15	< 10
N299839	205 226	< 2	< 5	< 2	0.6	0.56	38	220	0.5	< 2	3.47	6.5	3	104	41	0.80	< 10	170	0.15	< 10
N299840	205 226	< 2	< 5	< 2	0.8	0.53	32	220	0.5	< 2	3.79	7.0	3	96	37	0.90	< 10	150	0.14	< 10
N299841	205 226	< 2	< 5	< 2	0.8	0.60	30	300	0.5	< 2	7.29	8.5	3	85	39	0.88	< 10	170	0.15	< 10
N299842	205 226	< 2	< 5	2	1.0	0.43	42	190	< 0.5	< 2	4.70	29.5	2	90	74	0.69	< 10	350	0.11	< 10
N299843	205 226	< 2	< 5	2	1.4	0.45	46	250	0.5	< 2	5.08	35.5	3	87	91	0.81	< 10	350	0.11	< 10
N299844	205 226	< 2	< 5	2	0.8	0.39	36	210	0.5	< 2	2.89	7.0	3	84	46	0.91	< 10	150	0.10	< 10
N299845	205 226	< 2	< 5	< 2	0.6	0.52	32	240	0.5	< 2	3.57	6.5	3	94	71	0.80	< 10	160	0.13	< 10
N299846	205 226	2	< 5	2	0.8	0.39	20	70	0.5	< 2	3.25	5.0	2	103	94	1.04	< 10	190	0.09	< 10
N299847	205 226	< 2	< 5	< 2	0.4	0.75	22	110	0.5	< 2	5.32	19.0	7	72	86	1.11	< 10	190	0.10	< 10
N299848	205 226	< 2	< 5	< 2	0.4	0.75	24	130	0.5	< 2	4.39	21.5	7	69	53	1.18	< 10	190	0.10	< 10
N299849	205 226	< 2	< 5	< 2	0.2	0.81	30	90	0.5	< 2	4.53	40.0	8	67	42	1.66	< 10	160	0.09	< 10
N299850	205 226	< 2	< 5	< 2	0.2	0.75	12	190	0.5	< 2	11.35	16.0	8	37	29	0.90	< 10	110	0.08	< 10
N299851	205 226	8	< 5	6	1.8	0.31	28	70	< 0.5	< 2	0.52	2.0	1	80	32	1.96	< 10	260	0.17	< 10
N299852	205 226	12	< 5	10	1.8	0.29	24	90	< 0.5	< 2	0.68	2.0	1	94	36	2.16	< 10	230	0.15	< 10
N299853	205 226	4	< 5	4	1.4	0.42	32	90	0.5	< 2	1.03	4.0	1	90	32	1.96	< 10	200	0.15	< 10
N299854	205 226	< 2	< 5	< 2	0.2	0.15	6	390	< 0.5	< 2	0.12	< 0.5	< 1	171	11	0.51	< 10	60	0.07	< 10
N299855	205 226	< 2	< 5	< 2	0.2	0.30	14	300	< 0.5	< 2	0.72	1.5	1	147	27	0.86	< 10	70	0.10	< 10
N299856	205 226	< 2	< 5	< 2	0.2	0.24	6	190	< 0.5	< 2	0.95	3.0	1	112	27	0.80	< 10	70	0.11	< 10
N299857	205 226	< 2	< 5	< 2	0.2	0.38	10	210	< 0.5	< 2	0.47	1.0	< 1	106	33	0.87	< 10	< 10	0.10	< 10
N299858	205 226	6	< 5	< 2	0.2	0.22	12	170	< 0.5	< 2	0.61	3.5	1	141	43	0.66	< 10	90	0.05	< 10
N299859	205 226	< 2	< 5	< 2	0.6	0.13	6	390	< 0.5	< 2	0.17	0.5	< 1	191	29	0.50	< 10	190	0.05	< 10
N299860	205 226	< 2	< 5	< 2	0.6	0.39	12	250	< 0.5	< 2	0.98	3.5	< 1	198	54	0.87	< 10	180	0.12	< 10
N299861	205 226	< 2	< 5	< 2	0.4	0.39	20	240	< 0.5	< 2	1.23	4.5	3	143	74	1.07	< 10	280	0.11	< 10
N299862	205 226	< 2	< 5	< 2	0.4	0.90	24	80	0.5	< 2	1.54	22.5	12	149	109	2.32	< 10	160	0.17	< 10
N299863	205 226	2	< 5	< 2	0.6	0.63	16	160	0.5	< 2	1.21	10.0	4	151	125	1.65	< 10	130	0.08	< 10
N299864	205 226	< 2	< 5	< 2	0.2	0.39	16	160	0.5	< 2	4.32	6.0	5	125	42	1.12	< 10	130	0.11	< 10
N299865	205 226	< 2	< 5	< 2	0.2	0.39	14	260	< 0.5	< 2	3.94	7.0	4	111	34	0.95	< 10	170	0.09	< 10
N299866	205 226	< 2	< 5	< 2	0.2	0.42	14	180	< 0.5	< 2	3.68	9.5	5	111	37	1.07	< 10	90	0.10	< 10
N299867	205 226	< 2	< 5	< 2	0.4	0.41	18	190	0.5	< 2	3.64	5.5	5	143	40	1.01	< 10	170	0.12	< 10
N299868	205 226	< 2	< 5	< 2	0.6	0.32	18	210	< 0.5	< 2	3.69	14.0	5	130	43	1.02	< 10	230	0.09	< 10
N299869	205 226	< 2	< 5	2	2.6	0.41	46	330	< 0.5	< 2	4.69	61.5	5	186	104	0.81	< 10	800	0.10	< 10
N299870	205 226	< 2	< 5	4	2.2	0.37	52	170	< 0.5	< 2	7.70	41.0	5	152	83	1.01	< 10	670	0.11	10
N299871	205 226	< 2	< 5	6	1.8	0.60	28	110	0.5	< 2	4.24	16.5	9	52	68	2.69	< 10	150	0.22	10
N299872	205 226	< 2	< 5	8	1.8	0.83	20	60	0.5	< 2	3.95	19.0	11	61	65	3.11	< 10	120	0.30	10
N299873	205 226	6	< 5	4	1.6	0.74	24	70	0.5	< 2	3.35	20.5	11	68	57	2.84	< 10	100	0.27	10
N299874	205 226	< 2	< 5	< 2	3.2	0.54	40	100	< 0.5	< 2	2.94	55.0	11	46	58	2.32	< 10	90	0.22	< 10
N299875	205 226	< 2	< 5	< 2	2.0	0.39	32	140	< 0.5	< 2	5.29	45.0	11	32	45	2.29	< 10	140	0.16	< 10

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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207 - 675 W. HASTINGS ST.
VANCOUVER, BC
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Project: BLK97-04

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CERTIFICATE OF ANALYSIS

A9748581

SAMPLE	PREP CODE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Ba XRF %
N299836	205 226	0.23	45	106 < 0.01	248	510	6	2	3	645 < 0.01	< 10	10	791	< 10	346	0.2		
N299837	205 226	0.17	40	96 < 0.01	240	220	2	2	3	320 < 0.01	< 10	< 10	1020	< 10	554	0.1		
N299838	205 226	0.32	65	86 < 0.01	247	720	2	2	4	511 < 0.01	< 10	10	1305	< 10	540	0.2		
N299839	205 226	0.23	45	96 < 0.01	261	300	6	4	3	336 < 0.01	< 10	10	1285	< 10	572	0.2		
N299840	205 226	0.25	55	89 < 0.01	249	440	6	2	3	385 < 0.01	< 10	10	1230	< 10	572	0.1		
N299841	205 226	0.45	75	103 < 0.01	263	590	6	2	4	649 < 0.01	< 10	10	1190	< 10	662	0.2		
N299842	205 226	0.20	35	66 < 0.01	170	260	6	4	3	512 < 0.01	< 10	< 10	1145	< 10	2240	0.1		
N299843	205 226	0.24	35	67 < 0.01	183	490	6	4	3	560 < 0.01	< 10	< 10	1150	< 10	2420	0.1		
N299844	205 226	0.14	35	82 < 0.01	218	300	10	4	3	341 < 0.01	< 10	10	1000	< 10	584	0.1		
N299845	205 226	0.25	40	82 < 0.01	226	300	2	2	3	404 < 0.01	< 10	10	1220	< 10	540	0.1		
N299846	205 226	0.12	40	51 < 0.01	139	680	2	2	3	291 < 0.01	< 10	< 10	647	< 10	288	1.4		
N299847	205 226	0.16	85	64 < 0.01	318	960	2	2	4	699 < 0.01	< 10	< 10	1140	< 10	1090	0.4		
N299848	205 226	0.16	75	62 < 0.01	285	460	< 2	2	3	621 < 0.01	< 10	< 10	1095	< 10	1150	0.2		
N299849	205 226	0.15	110	67 < 0.01	226	430	6	< 2	4	635 < 0.01	< 10	10	1120	< 10	1815	0.2		
N299850	205 226	5.94	680	34 < 0.03	258	240	4	2	2	894 < 0.01	< 10	< 10	928	< 10	1110	0.1		
N299851	205 226	0.03	55	23 < 0.01	39	1430	8	< 2	2	141 < 0.01	< 10	< 10	248	< 10	78	0.7		
N299852	205 226	0.07	55	21 < 0.01	35	1340	10	< 2	1	128 < 0.01	< 10	< 10	257	< 10	80	0.6		
N299853	205 226	0.13	60	29 < 0.01	65	1690	6	2	3	96 < 0.01	< 10	< 10	408	< 10	300	0.8		
N299854	205 226	0.02	10	28 < 0.01	17	70	6	< 2	< 1	20 < 0.01	< 10	< 10	48	< 10	24	0.1		
N299855	205 226	0.22	40	33 < 0.01	59	180	10	< 2	1	67 < 0.01	< 10	< 10	134	< 10	134	0.3		
N299856	205 226	0.17	50	26 < 0.01	61	130	4	< 2	1	72 < 0.01	< 10	< 10	103	< 10	128	0.2		
N299857	205 226	0.10	15	34 < 0.01	37	170	2	< 2	1	53 < 0.01	< 10	< 10	114	< 10	42	0.2		
N299858	205 226	0.15	90	25 < 0.01	60	100	2	2	1	60 < 0.01	< 10	< 10	97	< 10	116	0.1		
N299859	205 226	0.03	10	22 < 0.01	19	300	6	< 2	< 1	33 < 0.01	< 10	< 10	111	< 10	30	0.1		
N299860	205 226	0.09	20	25 < 0.01	40	670	2	2	1	105 < 0.01	< 10	< 10	396	< 10	176	0.2		
N299861	205 226	0.11	65	34 < 0.01	73	290	2	< 2	2	99 < 0.01	< 10	< 10	243	< 10	384	0.2		
N299862	205 226	0.14	300	50 < 0.01	258	400	6	6	3	132 < 0.01	< 10	< 10	364	< 10	2040	0.5		
N299863	205 226	0.12	100	47 < 0.01	139	330	6	6	2	123 < 0.01	< 10	< 10	359	< 10	918	0.2		
N299864	205 226	0.28	80	45 < 0.01	157	410	8	< 2	4	540 < 0.01	< 10	< 10	728	< 10	498	0.3		
N299865	205 226	0.36	80	38 < 0.01	140	360	6	< 2	3	480 < 0.01	< 10	< 10	641	< 10	606	0.3		
N299866	205 226	0.44	100	44 < 0.01	152	440	6	< 2	3	424 < 0.01	< 10	< 10	622	< 10	670	0.4		
N299867	205 226	0.30	80	50 < 0.01	165	350	6	< 2	3	464 < 0.01	< 10	< 10	677	< 10	554	0.4		
N299868	205 226	0.30	90	52 < 0.01	145	340	6	< 2	3	435 < 0.01	< 10	< 10	510	< 10	878	0.3		
N299869	205 226	0.46	140	46 < 0.01	135	1060	2	8	3	565 < 0.01	< 10	< 10	1160	< 10	3440	0.1		
N299870	205 226	0.99	140	62 < 0.01	169	1370	6	8	4	772 < 0.01	< 10	< 10	1175	< 10	2440	0.5		
N299871	205 226	1.03	215	22 < 0.01	93	2520	12	8	5	234 < 0.01	< 10	< 10	295	< 10	894	1.0		
N299872	205 226	1.17	255	19 < 0.01	150	5230	12	4	5	206 < 0.01	< 10	< 10	348	< 10	1250	0.9		
N299873	205 226	1.27	200	13 < 0.02	116	5120	10	8	6	218 < 0.01	< 10	< 10	293	< 10	1370	1.0		
N299874	205 226	0.93	185	27 < 0.01	120	1310	20	14	4	165 < 0.01	< 10	< 10	333	< 10	2160	0.5		
N299875	205 226	2.32	315	23 < 0.01	113	820	20	16	3	270 < 0.01	< 10	< 10	354	< 10	2240	0.5		

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A9748581

SAMPLE	PREP CODE	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La
		ppb AFS	ppb AFS	ppb AFS	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm
N299876	205 226	< 2	< 5	< 2	0.2	0.46	14	300	0.5	< 2	5.05	5.0	3	81	37	0.79	< 10	170	0.12	< 10
N299877	205 226	< 2	< 5	< 2	0.4	0.30	10	290	< 0.5	< 2	6.39	4.0	3	58	24	0.70	< 10	130	0.09	< 10
N299878	205 226	< 4	< 10	< 4	1.6	0.88	56	30	1.0	< 2	1.46	10.5	9	100	83	2.55	< 10	400	0.25	< 10
N299879	205 226	< 2	< 5	< 2	0.8	0.54	20	90	0.5	< 2	11.55	5.0	4	67	67	1.05	< 10	170	0.14	< 10
N299880	205 226	< 2	< 5	< 2	0.6	0.35	16	220	< 0.5	< 2	5.16	4.0	3	81	67	0.81	< 10	160	0.09	< 10
N299881	205 226	< 2	< 5	< 2	0.6	0.45	18	190	0.5	< 2	5.44	5.0	3	65	32	0.92	< 10	150	0.12	< 10
N299882	205 226	< 2	< 5	< 2	0.6	0.66	16	140	0.5	< 2	5.06	6.5	4	72	36	1.07	< 10	170	0.14	< 10
N299883	205 226	< 2	< 5	< 2	0.4	0.43	16	280	< 0.5	< 2	4.63	4.5	4	50	34	1.00	< 10	110	0.12	< 10
N299884	205 226	< 2	< 5	< 2	0.4	0.56	16	280	< 0.5	< 2	4.90	4.0	4	56	38	0.82	< 10	80	0.12	< 10
N299885	205 226	< 2	< 5	< 2	0.4	0.31	16	130	< 0.5	< 2	3.18	3.5	3	66	24	1.04	< 10	110	0.09	< 10
N299886	205 226	< 2	< 5	< 2	0.6	0.32	16	150	< 0.5	< 2	3.87	3.0	3	47	27	0.98	< 10	100	0.09	< 10
N299887	205 226	< 2	< 5	< 2	0.6	0.34	22	140	< 0.5	< 2	2.60	3.0	5	58	32	1.08	< 10	100	0.10	< 10
N299888	205 226	< 2	< 5	< 2	0.6	0.41	16	210	0.5	< 2	4.11	2.5	4	67	30	1.02	< 10	110	0.11	< 10
N299889	205 226	< 2	< 5	< 2	0.8	0.49	16	270	0.5	< 2	4.47	2.0	4	62	44	0.95	< 10	100	0.12	< 10
N299890	205 226	< 2	< 5	< 2	0.8	0.46	24	250	0.5	< 2	4.40	3.0	4	74	42	0.86	< 10	120	0.12	< 10
N299891	205 226	4	< 10	4	1.0	0.60	28	220	1.0	< 2	4.75	4.5	4	93	56	1.02	< 10	140	0.16	< 10
N299892	205 226	< 2	< 5	4	1.4	0.68	28	250	0.5	< 2	5.74	18.5	3	90	80	0.82	< 10	300	0.17	< 10
N299893	205 226	< 2	< 5	< 2	1.2	0.54	36	190	0.5	< 2	5.40	22.5	3	90	61	0.73	< 10	290	0.14	< 10
N299894	205 226	< 2	< 5	2	1.6	0.49	40	260	< 0.5	< 2	4.14	45.0	2	131	86	0.60	< 10	390	0.12	< 10
N299895	205 226	< 2	< 5	4	3.0	0.61	52	180	0.5	< 2	5.77	69.0	3	140	123	0.78	< 10	520	0.15	< 10
N299896	205 226	< 2	< 5	4	2.8	0.44	46	210	0.5	< 2	7.14	64.0	2	112	120	0.55	< 10	440	0.11	< 10
N299897	205 226	< 2	< 5	4	4.6	0.50	70	200	0.5	< 2	5.49	83.0	2	144	146	0.51	< 10	450	0.12	< 10
N299898	205 226	< 2	< 5	4	3.2	0.49	58	200	0.5	< 2	5.72	82.0	2	130	132	0.52	< 10	400	0.12	< 10
N299899	205 226	< 2	< 5	< 2	3.8	0.54	60	240	0.5	< 2	4.77	83.0	2	154	130	0.53	< 10	420	0.13	< 10
N299900	205 226	< 2	< 5	4	2.6	0.47	48	280	< 0.5	< 2	5.19	54.5	1	132	109	0.46	< 10	350	0.11	< 10

CERTIFICATION: _____



Chemex Labs 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: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

Project: BLK97-04

Comments: ATTN: DAVID CAULFIELD CC: BRIAN BUTTERWORTH

Page Number :4-B
Total Pages :4
Certificate Date: 05-NOV-97
Invoice No. :19748581
P.O. Number :
Account :EIA

CERTIFICATE OF ANALYSIS

A9748581

SAMPLE	PREP CODE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Ba XRF %
N299876	205 226	0.16	70	49 < 0.01	162	380	2	< 2	3	760 < 0.01	< 10	< 10	679	< 10	414	0.3		
N299877	205 226	0.14	70	41 < 0.01	136	460	2	< 2	3	731 < 0.01	< 10	< 10	547	< 10	292	0.6		
N299878	205 226	0.17	115	179 < 0.01	516	1150	14	6	6	203 < 0.01	< 10	20	1075	< 10	1090	1.0		
N299879	205 226	0.30	100	76 < 0.01	223	770	8	2	3	736 < 0.01	10	< 10	643	< 10	484	0.8		
N299880	205 226	0.15	80	62 < 0.01	194	310	2	2	3	603 < 0.01	< 10	< 10	667	< 10	504	0.5		
N299881	205 226	0.16	60	57 < 0.01	172	520	< 2	2	3	729 < 0.01	< 10	< 10	662	< 10	410	0.3		
N299882	205 226	0.19	135	60 < 0.01	203	600	2	< 2	3	700 < 0.01	< 10	< 10	734	< 10	770	0.2		
N299883	205 226	0.22	90	49 < 0.01	155	390	4	< 2	3	629 < 0.01	< 10	< 10	478	< 10	450	0.2		
N299884	205 226	0.56	95	37 < 0.01	123	380	6	< 2	3	611 < 0.01	< 10	< 10	584	< 10	450	0.3		
N299885	205 226	0.11	45	43 < 0.01	134	260	6	2	3	380 < 0.01	< 10	< 10	366	< 10	342	0.3		
N299886	205 226	0.13	45	47 < 0.01	144	310	6	4	3	478 < 0.01	< 10	< 10	366	< 10	308	0.3		
N299887	205 226	0.13	90	50 < 0.01	162	200	10	2	3	259 < 0.01	< 10	< 10	338	< 10	334	0.2		
N299888	205 226	0.23	70	54 < 0.01	161	280	8	4	3	348 < 0.01	< 10	< 10	329	< 10	258	0.2		
N299889	205 226	0.30	65	63 < 0.01	183	300	6	2	4	464 < 0.01	< 10	< 10	457	< 10	226	0.2		
N299890	205 226	0.19	50	85 < 0.01	223	400	8	2	3	506 < 0.01	< 10	< 10	597	< 10	306	0.2		
N299891	205 226	0.25	55	96 < 0.01	268	540	6	6	4	592	0.01	< 10	< 10	1030	< 10	436	0.2	
N299892	205 226	0.34	55	56 < 0.01	210	340	8	6	4	520	0.01	10	< 10	1580	< 10	1625	0.2	
N299893	205 226	0.29	60	70 < 0.01	189	340	2	6	4	470	0.01	< 10	< 10	1375	< 10	1780	0.2	
N299894	205 226	0.20	35	56 < 0.01	150	280	6	6	3	347	0.01	< 10	< 10	1390	< 10	2940	0.2	
N299895	205 226	0.25	45	56 < 0.01	180	2060	8	12	4	433	0.02	< 10	< 10	1810	< 10	4280	0.2	
N299896	205 226	0.20	75	65 < 0.01	166	300	6	8	3	481	0.01	< 10	< 10	1560	< 10	4010	0.2	
N299897	205 226	0.15	35	79 < 0.01	201	810	8	14	4	567	0.02	< 10	10	2290	< 10	4750	0.2	
N299898	205 226	0.16	35	68 < 0.01	167	900	2	10	4	531	0.02	< 10	10	2320	< 10	4910	0.2	
N299899	205 226	0.14	40	61 < 0.01	164	1170	4	16	4	499	0.02	10	10	2600	< 10	4760	0.2	
N299900	205 226	0.12	40	52 < 0.01	141	970	4	14	3	483	0.02	10	10	2240	< 10	3610	0.1	

CERTIFICATION: David Caulfield



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Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

A9741686

Comments: ATTN: DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

CERTIFICATE

A9741686

(EIA) - EQUITY ENGINEERING LTD.

Project: BLK 97-04
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 19-SEP-97.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	59	Geochem ring to approx 150 mesh
226	59	0-3 Kg crush and split
3202	59	Rock - save entire reject
229	59	ICP - AQ Digestion charge
* NOTE	1:	

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	59	Au ppb: ICP-fluorescence package	FA-ICP-AFS	2	10000
976	59	Pt ppb: ICP-Fluorescence package	FA-ICP-AFS	5	10000
977	59	Pd ppb: ICP-fluorescence package	FA-ICP-AFS	2	10000
2118	59	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	59	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	59	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	59	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	59	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	59	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	59	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	59	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	59	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	59	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	59	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	59	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	59	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	59	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	59	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	59	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	59	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	59	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	59	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	59	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	59	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	59	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	59	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	59	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	59	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	59	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	59	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	59	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	59	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	59	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	59	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	59	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



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Page Number : 1-A

Total Pages : 2

Certificate Date: 19-SEP-97

Invoice No. : 19741686

P.O. Number :

Account : EIA

CERTIFICATE OF ANALYSIS

A9741686

SAMPLE	PREP CODE	Au ppb AFS	Pt ppb AFS	Pd ppb AFS	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm
N299601	205 226	6	5	4	0.2	0.44	18	110	0.5	< 2	9.34	4.5	4	69	101	1.08	< 10	< 1	0.13	< 10
N299602	205 226	12	5	12	1.4	0.66	36	40	0.5	< 2	0.33	1.0	9	99	90	2.79	< 10	< 1	0.14	< 10
N299603	205 226	14	10	16	2.8	0.55	52	40	0.5	< 2	0.56	1.0	7	90	115	3.62	< 10	< 1	0.16	< 10
N299604	205 226	12	5	12	1.6	0.49	30	50	0.5	< 2	0.75	0.5	5	85	101	2.61	< 10	< 1	0.16	< 10
N299605	205 226	14	10	18	3.2	0.69	54	10	0.5	< 2	0.67	2.0	8	80	130	6.34	< 10	< 1	0.19	< 10
N299606	205 226	14	10	22	3.8	0.98	62	10	1.5	< 2	0.74	2.0	9	135	140	6.53	< 10	< 1	0.31	< 10
N299607	205 226	14	5	10	1.8	0.54	36	20	0.5	< 2	0.34	0.5	6	86	85	3.62	< 10	< 1	0.17	< 10
N299608	205 226	18	5	12	3.4	1.10	64	10	1.0	< 2	0.77	0.5	11	59	125	7.48	< 10	< 1	0.31	< 10
N299609	205 226	12	5	12	1.4	0.43	26	60	< 0.5	< 2	0.34	1.5	5	109	77	2.12	< 10	< 1	0.14	< 10
N299610	205 226	16	10	20	4.2	1.00	94	10	0.5	< 2	0.76	1.5	5	139	166	5.17	< 10	< 1	0.30	< 10
N299611	205 226	18	10	22	3.6	0.78	62	10	0.5	< 2	0.66	1.5	6	122	139	4.44	< 10	< 1	0.24	< 10
N299612	205 226	12	5	12	2.0	0.50	32	30	0.5	< 2	0.43	2.0	10	92	88	2.78	< 10	< 1	0.16	< 10
N299613	205 226	8	5	12	1.4	0.49	22	70	0.5	< 2	0.69	3.0	3	143	62	1.65	< 10	< 1	0.16	< 10
N299614	205 226	6	5	12	1.2	0.58	12	90	0.5	< 2	1.10	4.5	3	140	57	1.08	< 10	< 1	0.16	< 10
N299615	205 226	6	5	8	1.2	0.59	12	150	0.5	< 2	1.16	6.5	4	146	43	1.04	< 10	< 1	0.16	< 10
N299616	205 226	6	5	10	1.4	0.58	18	110	0.5	< 2	1.48	6.0	5	179	49	1.26	< 10	< 1	0.17	< 10
N299617	205 226	4	< 5	2	0.2	0.36	8	150	0.5	< 2	11.75	2.5	1	44	24	0.64	< 10	< 1	0.09	< 10
N299618	205 226	12	< 10	12	1.8	0.51	18	50	0.5	< 2	0.65	0.5	5	86	75	2.00	< 10	< 1	0.16	< 10
N299619	205 226	10	10	14	1.8	0.54	28	50	0.5	< 2	0.84	0.5	4	107	78	2.27	< 10	< 1	0.17	< 10
N299620	205 226	4	5	10	0.2	0.40	28	110	< 0.5	< 2	1.37	0.5	4	99	33	1.47	< 10	< 1	0.13	< 10
N299621	205 226	8	10	14	1.2	0.44	106	30	< 0.5	< 2	1.16	2.0	8	66	67	3.72	< 10	< 1	0.14	< 10
N299622	205 226	12	5	18	1.0	0.63	72	30	0.5	< 2	8.94	0.5	4	65	132	3.99	< 10	< 1	0.17	< 10
N299623	205 226	14	5	12	0.8	0.51	60	30	0.5	< 2	7.58	0.5	5	75	106	3.86	< 10	< 1	0.13	< 10
N299624	205 226	20	< 10	10	0.6	0.35	30	30	0.5	< 2	10.95	< 0.5	1	46	60	3.10	< 10	< 1	0.09	< 10
N299625	205 226	6	5	10	0.6	0.50	48	40	< 0.5	< 2	0.50	1.0	5	121	42	2.71	< 10	< 1	0.16	< 10
N299626	205 226	6	5	12	0.8	0.58	56	20	0.5	< 2	0.49	3.5	5	115	59	3.81	< 10	< 1	0.17	< 10
N299627	205 226	8	10	10	0.8	0.40	28	60	< 0.5	< 2	0.19	15.0	5	88	69	1.80	< 10	< 1	0.13	< 10
N299628	205 226	8	10	10	1.0	0.43	36	30	< 0.5	< 2	0.18	19.0	5	105	65	2.59	< 10	< 1	0.14	< 10
N299629	205 226	8	5	10	0.8	0.38	30	50	< 0.5	< 2	0.22	40.0	5	87	100	1.56	< 10	< 1	0.12	< 10
N299630	205 226	6	5	8	0.8	0.32	20	70	< 0.5	< 2	0.19	24.5	5	74	71	1.27	< 10	< 1	0.11	< 10
N299631	205 226	8	5	8	1.0	0.42	24	70	< 0.5	< 2	0.17	41.0	5	100	106	1.18	< 10	< 1	0.14	< 10
N299632	205 226	8	5	10	0.8	0.42	28	50	< 0.5	< 2	0.23	20.0	5	86	65	1.83	< 10	< 1	0.14	< 10
N299633	205 226	10	5	10	1.0	0.39	34	30	< 0.5	< 2	0.23	32.0	6	62	78	2.11	< 10	< 1	0.13	< 10
N299634	205 226	10	< 5	8	0.8	0.45	40	30	0.5	< 2	4.03	12.0	4	80	62	2.35	< 10	< 1	0.14	< 10
N299635	205 226	12	< 5	6	0.6	0.32	32	40	0.5	< 2	12.00	< 0.5	1	50	34	3.77	< 10	< 1	0.07	< 10
N299636	205 226	16	5	10	1.0	0.51	48	40	0.5	< 2	11.45	0.5	3	46	52	3.66	< 10	< 1	0.14	< 10
N299637	205 226	16	5	16	3.4	0.72	64	10	1.5	< 2	0.46	4.5	12	112	100	5.02	< 10	< 1	0.23	< 10
N299638	205 226	10	10	18	2.6	0.60	70	20	0.5	< 2	0.80	4.0	4	138	79	3.51	< 10	< 1	0.18	< 10
N299639	205 226	14	10	16	3.2	0.63	56	10	1.0	< 2	0.69	3.5	7	139	88	5.83	< 10	< 1	0.19	< 10
N299640	205 226	8	5	14	2.0	0.56	44	30	0.5	< 2	1.00	4.0	4	172	71	2.79	< 10	< 1	0.16	< 10

CERTIFICATION:



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SAMPLE	PREP CODE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
N299601	205 226	0.19	150	69 < 0.01		201	750	6	< 2	4	855 < 0.01	< 10	< 10	< 10	428	< 10	576
N299602	205 226	0.07	105	3 < 0.01		112	1370	20	< 2	2	75 < 0.01	< 10	< 10	< 10	88	< 10	546
N299603	205 226	0.17	140	3 < 0.01		108	1880	24	2	4	125 < 0.01	< 10	< 10	< 10	114	< 10	522
N299604	205 226	0.19	100	3 < 0.01		79	2190	18	2	4	161 < 0.01	< 10	< 10	< 10	88	< 10	332
N299605	205 226	0.06	105	6 < 0.01		117	3550	28	4	1	185 < 0.01	< 10	< 10	< 10	95	< 10	698
N299606	205 226	0.09	155	17 < 0.01		129	3510	30	4	3	117 < 0.01	< 10	< 10	< 10	190	< 10	716
N299607	205 226	0.05	100	5 < 0.01		59	1650	22	2	1	52 < 0.01	< 10	< 10	< 10	68	< 10	276
N299608	205 226	0.09	110	11 < 0.01		77	3940	36	6	2	301 < 0.01	< 10	< 10	< 10	112	< 10	316
N299609	205 226	0.05	85	2 < 0.01		74	1280	14	2	3	81 < 0.01	< 10	< 10	< 10	67	< 10	538
N299610	205 226	0.45	155	3 < 0.01		116	2230	38	4	16	107 < 0.01	< 10	< 10	< 10	215	< 10	714
N299611	205 226	0.21	100	4 < 0.01		114	2370	30	4	5	143 < 0.01	< 10	< 10	< 10	161	< 10	528
N299612	205 226	0.08	80	43 < 0.01		127	1590	22	2	2	71 < 0.01	< 10	< 10	< 10	94	< 10	280
N299613	205 226	0.16	45	9 < 0.01		78	2330	12	< 2	2	152 < 0.01	< 10	< 10	< 10	130	< 10	328
N299614	205 226	0.30	60	7 < 0.01		88	3010	8	< 2	3	180 < 0.01	< 10	< 10	< 10	169	< 10	390
N299615	205 226	0.39	115	8 < 0.01		91	2810	6	2	3	163 < 0.01	< 10	< 10	< 10	160	< 10	528
N299616	205 226	0.18	55	43 < 0.01		119	3390	12	6	3	194 < 0.01	< 10	< 10	< 10	277	< 10	428
N299617	205 226	1.42	250	36 < 0.01		117	410	2	< 2	2	806 < 0.01	< 10	< 10	< 10	489	< 10	408
N299618	205 226	0.05	80	1 < 0.01		59	2860	16	< 2	1	78 < 0.01	< 10	< 10	< 10	80	< 10	290
N299619	205 226	0.22	80	3 < 0.01		76	2290	16	< 2	4	151 < 0.01	< 10	< 10	< 10	106	< 10	294
N299620	205 226	0.05	25	3 < 0.01		26	2760	8	2	1	283 < 0.01	< 10	< 10	< 10	68	< 10	108
N299621	205 226	0.11	85	3 < 0.01		51	500	16	6	1	121 < 0.01	< 10	< 10	< 10	71	< 10	266
N299622	205 226	3.59	865	3 0.02		36	1100	16	4	6	725 < 0.01	< 10	< 10	< 10	210	< 10	136
N299623	205 226	2.87	560	1 0.03		38	1010	12	2	3	736 < 0.01	< 10	< 10	< 10	144	< 10	118
N299624	205 226	5.50	635	< 1 0.03		16	600	6	< 2	4	743 < 0.01	< 10	< 10	< 10	151	< 10	62
N299625	205 226	0.08	45	3 < 0.01		34	1160	12	6	1	88 < 0.01	< 10	< 10	< 10	69	< 10	98
N299626	205 226	0.09	35	10 0.01		54	1660	22	6	1	97 < 0.01	< 10	< 10	< 10	166	< 10	210
N299627	205 226	0.06	35	26 < 0.01		81	630	12	4	1	31 < 0.01	< 10	< 10	< 10	196	< 10	968
N299628	205 226	0.05	40	26 < 0.01		86	600	22	6	2	25 < 0.01	< 10	< 10	< 10	191	< 10	1125
N299629	205 226	0.05	50	29 < 0.01		73	750	12	6	2	39 < 0.01	< 10	< 10	< 10	220	< 10	2220
N299630	205 226	0.05	30	31 < 0.01		73	510	10	6	1	28 < 0.01	< 10	< 10	< 10	170	< 10	1420
N299631	205 226	0.08	45	30 < 0.01		69	500	8	6	3	34 < 0.01	< 10	< 10	< 10	269	< 10	2200
N299632	205 226	0.07	35	28 < 0.01		79	530	14	4	3	33 < 0.01	< 10	< 10	< 10	215	< 10	1100
N299633	205 226	0.07	45	32 < 0.01		94	260	18	6	1	17 < 0.01	< 10	< 10	< 10	190	< 10	1865
N299634	205 226	1.94	410	13 < 0.01		50	1970	10	4	3	333 < 0.01	< 10	< 10	< 10	172	< 10	802
N299635	205 226	6.07	1270	< 1 0.02		18	1230	10	< 2	4	901 < 0.01	< 10	< 10	< 10	147	< 10	26
N299636	205 226	6.33	1015	2 0.02		33	990	10	< 2	4	719 < 0.01	< 10	< 10	< 10	150	< 10	102
N299637	205 226	0.13	75	61 < 0.01		169	1910	20	6	3	70 < 0.01	< 10	< 10	< 10	213	< 10	406
N299638	205 226	0.17	65	9 < 0.01		93	3070	20	8	4	197 < 0.01	< 10	< 10	< 10	221	< 10	430
N299639	205 226	0.11	115	7 < 0.01		92	3110	24	8	2	176 < 0.01	< 10	< 10	< 10	230	< 10	340
N299640	205 226	0.09	50	11 < 0.01		96	4670	16	8	4	464 < 0.01	< 10	< 10	< 10	256	< 10	320

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221 FAX: 604-984-0218

To: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

Project: BLK 97-04

Comments: ATTN: DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

Page Number :2-A
Total Pages :2
Certificate Date: 19-SEP-97
Invoice No. :19741686
P.O. Number :
Account :EIA

CERTIFICATE OF ANALYSIS

A9741686

SAMPLE	PREP CODE	Au ppb AFS	Pt ppb AFS	Pd ppb AFS	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm
N299641	205 226	8	5	12	2.0	0.48	38	80	0.5	< 2	1.00	4.5	3	182	60	2.04	< 10	< 1	0.11	< 10
N299642	205 226	6	5	12	2.2	0.56	38	40	0.5	< 2	1.16	6.0	3	204	60	3.11	< 10	< 1	0.11	< 10
N299643	205 226	4	5	8	1.4	0.61	20	170	0.5	< 2	1.22	9.0	3	225	193	1.05	< 10	< 1	0.09	< 10
N299644	205 226	< 2	5	6	0.8	0.70	26	70	0.5	< 2	9.65	6.5	3	101	86	1.24	< 10	< 1	0.13	< 10
N299645	205 226	< 2	< 5	< 2	0.4	0.76	20	110	0.5	< 2	7.55	3.0	3	82	33	0.90	< 10	< 1	0.11	< 10
N299646	205 226	< 2	< 5	< 2	0.2	0.83	12	110	0.5	< 2	9.42	4.5	2	105	63	0.79	< 10	< 1	0.10	< 10
N299647	205 226	< 2	< 5	< 2	0.2	0.72	16	150	< 0.5	< 2	11.50	2.5	1	80	195	0.74	< 10	< 1	0.08	< 10
N299648	205 226	< 2	< 5	2	0.6	0.81	24	80	0.5	< 2	4.30	4.5	4	115	36	1.11	< 10	< 1	0.16	< 10
N299649	205 226	< 2	< 5	< 2	0.2	0.50	24	120	< 0.5	< 2	6.00	5.5	3	189	92	1.03	< 10	< 1	0.11	< 10
N299650	205 226	< 2	< 5	< 2	0.4	0.65	32	110	0.5	< 2	5.43	4.0	4	91	32	1.15	< 10	< 1	0.15	< 10
N299651	205 226	10	< 5	6	1.4	0.49	22	220	0.5	< 2	5.47	51.0	7	124	99	1.21	< 10	< 1	0.09	< 10
N299652	205 226	6	< 5	10	0.4	1.01	34	90	0.5	< 2	5.86	3.0	6	68	127	1.79	< 10	< 1	0.16	< 10
N299653	205 226	12	10	20	1.4	0.69	88	20	0.5	< 2	2.34	0.5	4	78	80	4.88	< 10	< 1	0.17	< 10
N299654	205 226	6	< 5	10	1.2	0.55	62	60	< 0.5	< 2	0.60	1.0	4	79	77	2.82	< 10	< 1	0.14	< 10
N299655	205 226	10	< 5	12	2.0	0.66	42	50	0.5	< 2	1.08	3.0	9	125	95	3.08	< 10	< 1	0.15	< 10
N299656	205 226	12	20	10	1.2	1.52	32	40	0.5	< 2	0.50	66.5	13	123	180	2.48	< 10	< 1	0.28	< 10
N299657	205 226	26	5	12	0.2	2.26	40	40	2.0	< 2	8.29	>100.0	23	81	182	3.42	< 10	< 1	0.20	< 10
N299658	205 226	10	< 5	12	0.8	0.84	34	90	0.5	< 2	0.46	16.0	6	83	118	1.91	< 10	< 1	0.23	< 10
N299659	205 226	8	< 5	8	1.8	0.56	26	180	0.5	< 2	0.18	12.5	4	70	76	1.11	< 10	< 1	0.19	< 10

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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To: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

Project : BLK 97-04

Comments: ATTN: DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

Page Number :2-B
Total Pages :2
Certificate Date: 19-SEP-97
Invoice No. :19741686
P.O. Number :
Account :EIA

CERTIFICATE OF ANALYSIS

A9741686

SAMPLE	PREP CODE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
N299641	205 226	0.08	40	8 < 0.01		99	4170	12	4	2	501 < 0.01	< 10	< 10	167	< 10	428	
N299642	205 226	0.24	55	9 < 0.01		84	3470	14	< 2	3	300 < 0.01	< 10	< 10	220	< 10	502	
N299643	205 226	0.10	50	20 < 0.01		107	3430	6	2	3	214 0.01	< 10	< 10	385	< 10	810	
N299644	205 226	0.45	120	65 < 0.01		209	840	8	< 2	3	706 0.01	< 10	< 10	578	< 10	646	
N299645	205 226	0.31	75	69 < 0.01		223	400	2	< 2	3	408 0.01	< 10	10	700	< 10	326	
N299646	205 226	0.39	100	52 < 0.01		200	460	6	< 2	3	482 0.04	< 10	10	767	< 10	270	
N299647	205 226	0.27	75	40 < 0.01		155	290	6	< 2	3	941 0.04	< 10	< 10	770	< 10	256	
N299648	205 226	0.41	55	65 < 0.01		214	450	8	< 2	4	443 0.05	< 10	< 10	1100	< 10	524	
N299649	205 226	0.28	65	60 < 0.01		206	300	8	< 2	4	735 0.08	< 10	< 10	1105	< 10	630	
N299650	205 226	0.27	65	63 < 0.01		224	320	4	2	4	561 < 0.01	< 10	< 10	942	< 10	414	
N299651	205 226	2.93	760	17 0.01		72	150	4	2	4	356 < 0.01	< 10	< 10	710	< 10	994	
N299652	205 226	3.04	400	2 0.01		47	200	12	< 2	6	412 < 0.01	< 10	< 10	195	< 10	236	
N299653	205 226	0.58	65	5 0.01		31	270	22	2	8	152 < 0.01	< 10	< 10	173	< 10	82	
N299654	205 226	0.17	100	2 0.01		37	1060	20	6	1	105 < 0.01	< 10	< 10	61	< 10	130	
N299655	205 226	0.10	125	18 < 0.01		118	1340	24	2	1	138 < 0.01	< 10	< 10	114	< 10	446	
N299656	205 226	0.34	95	22 < 0.01		258	940	14	2	4	71 < 0.01	< 10	< 10	467	< 10	2150	
N299657	205 226	3.95	985	2 < 0.01		384	720	14	2	35	1790 0.01	< 10	10	914	< 10	5190	
N299658	205 226	0.26	60	16 < 0.01		108	910	8	< 2	3	68 < 0.01	< 10	< 10	395	< 10	910	
N299659	205 226	0.06	40	44 < 0.01		71	730	10	2	2	39 < 0.01	< 10	< 10	349	< 10	554	

CERTIFICATION:

David B. ...



Chemex Labs Ltd.

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To: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

A9741687

Comments: ATTN:DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

CERTIFICATE

A9741687

(EIA) - EQUITY ENGINEERING LTD.

Project: BLK 97-04
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 18-SEP-97.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	44	Geochem ring to approx 150 mesh
226	44	0-3 Kg crush and split
3202	44	Rock - save entire reject
229	44	ICP - AQ Digestion charge
* NOTE 1:		

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	44	Au ppb: ICP-fluorescence package	FA-ICP-AFS	2	10000
976	44	Pt ppb: ICP-Fluorescence package	FA-ICP-AFS	5	10000
977	44	Pd ppb: ICP-fluorescence package	FA-ICP-AFS	2	10000
2118	44	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	44	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	44	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	44	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	44	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	44	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	44	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	44	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	44	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	44	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	44	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	44	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	44	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	44	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	44	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	44	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	44	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	44	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	44	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	44	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	44	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	44	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	44	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	44	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	44	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	44	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	44	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	44	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	44	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	44	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	44	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	44	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



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207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

Project : BLK 97-04

Comments: ATTN:DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

Page Number :1-A

Total Pages :2

Certificate Date: 18-SEP-97

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CERTIFICATE OF ANALYSIS

A9741687

SAMPLE	PREP CODE	Au ppb AFS	Pt ppb AFS	Pd ppb AFS	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm
N299660	205 226	2	< 5	2	0.2	0.40	18	160	0.5	< 2	8.24	8.0	4	79	55	0.75	< 10	< 1	0.09	< 10
N299661	205 226	2	5	4	0.4	0.53	18	150	0.5	< 2	3.04	6.5	3	137	49	0.94	< 10	< 1	0.15	< 10
N299662	205 226	2	< 5	4	0.4	0.60	20	80	0.5	< 2	2.07	6.5	4	173	32	1.08	< 10	< 1	0.17	< 10
N299663	205 226	< 2	< 5	2	< 0.2	0.06	2	>10000	< 0.5	< 2	9.06	4.5	5	10	3	0.08	< 10	1	< 0.01	< 10
N299664	205 226	< 2	< 5	2	< 0.2	0.01	2	>10000	< 0.5	< 2	8.25	< 0.5	4	8	3	0.04	< 10	< 1	< 0.01	< 10
N299665	205 226	< 2	< 5	< 2	< 0.2	< 0.01	< 2	>10000	< 0.5	< 2	8.94	< 0.5	3	4	1	0.02	< 10	< 1	< 0.01	< 10
N299666	205 226	< 2	< 5	2	< 0.2	< 0.01	< 2	>10000	< 0.5	< 2	9.71	< 0.5	4	3	< 1	0.01	< 10	< 1	< 0.01	< 10
N299667	205 226	< 2	< 5	2	< 0.2	< 0.01	< 2	>10000	< 0.5	< 2	9.37	< 0.5	4	5	< 1	0.02	< 10	1	< 0.01	< 10
N299668	205 226	< 2	< 5	2	< 0.2	0.01	< 2	>10000	< 0.5	< 2	9.20	< 0.5	5	4	1	0.05	< 10	1	< 0.01	< 10
N299669	205 226	< 2	< 5	2	< 0.2	0.01	2	>10000	< 0.5	< 2	9.10	1.0	6	1	< 1	0.03	< 10	< 1	< 0.01	< 10
N299670	205 226	< 2	< 5	2	< 0.2	0.01	2	>10000	< 0.5	< 2	8.90	1.5	3	4	1	0.07	< 10	1	< 0.01	< 10
N299671	205 226	< 2	< 5	2	< 0.2	0.02	< 2	>10000	< 0.5	< 2	8.71	3.5	4	6	4	0.10	< 10	< 1	< 0.01	< 10
N299672	205 226	2	5	2	0.2	0.12	8	>10000	< 0.5	< 2	4.23	34.0	2	56	158	0.37	< 10	< 1	0.04	< 10
N299673	205 226	< 2	< 5	2	< 0.2	0.01	2	>10000	< 0.5	< 2	7.51	19.0	3	17	101	0.07	< 10	1	< 0.01	< 10
N299674	205 226	2	< 5	4	0.6	0.15	30	560	< 0.5	< 2	1.29	36.0	2	221	4550	0.68	< 10	< 1	0.05	< 10
N299675	205 226	4	< 5	12	1.8	0.38	30	180	0.5	< 2	4.35	43.0	1	181	119	0.58	< 10	< 1	0.10	< 10
N299676	205 226	2	5	8	2.4	0.39	30	140	0.5	< 2	3.92	60.0	1	189	129	0.55	< 10	1	0.11	< 10
N299677	205 226	2	< 5	6	1.8	0.48	30	210	0.5	< 2	10.10	51.5	< 1	132	390	0.45	< 10	< 1	0.12	< 10
N299678	205 226	2	5	10	3.8	0.50	54	100	0.5	< 2	3.87	93.0	1	180	111	0.68	< 10	1	0.14	< 10
N299679	205 226	2	5	4	1.0	0.46	26	210	0.5	< 2	4.06	16.0	4	112	50	1.09	< 10	< 1	0.14	< 10
N299680	205 226	2	< 5	4	1.2	0.50	28	100	1.0	< 2	3.58	15.0	4	100	93	1.26	< 10	< 1	0.15	< 10
N299681	205 226	2	5	4	1.2	0.45	28	90	1.0	< 2	3.11	6.5	4	127	32	1.09	< 10	< 1	0.14	< 10
N299682	205 226	2	< 5	4	0.6	0.29	22	110	0.5	< 2	2.21	2.5	3	124	43	0.80	< 10	< 1	0.09	< 10
N299683	205 226	< 2	< 5	< 2	< 0.2	0.01	2	>10000	< 0.5	< 2	9.21	< 0.5	4	7	7	0.05	< 10	< 1	< 0.01	< 10
N299684	205 226	< 2	< 5	< 2	< 0.2	< 0.01	< 2	>10000	< 0.5	< 2	7.65	< 0.5	3	4	1	0.03	< 10	1	< 0.01	< 10
N299685	205 226	< 2	< 5	< 2	< 0.2	< 0.01	< 2	>10000	< 0.5	< 2	9.35	5.5	3	3	2	0.03	< 10	1	< 0.01	< 10
N299686	205 226	2	< 5	2	0.6	0.27	14	870	0.5	< 2	2.91	5.0	3	86	34	0.76	< 10	< 1	0.08	< 10
N299687	205 226	2	< 5	2	1.4	0.28	16	220	0.5	< 2	3.02	5.0	4	104	24	0.88	< 10	< 1	0.08	< 10
N299688	205 226	2	5	4	1.0	0.24	28	110	0.5	< 2	2.97	57.5	4	236	27	1.04	< 10	< 1	0.07	< 10
N299689	205 226	< 2	< 5	2	0.6	0.15	12	7290	< 0.5	< 2	2.95	>100.0	1	205	288	0.40	< 10	< 1	0.03	< 10
N299690	205 226	4	< 5	6	2.0	0.44	34	100	0.5	< 2	1.73	63.0	< 1	349	247	0.75	< 10	1	0.15	< 10
N299691	205 226	2	5	4	1.4	0.32	26	250	0.5	< 2	2.24	>100.0	1	263	1000	0.54	< 10	< 1	0.10	< 10
N299692	205 226	6	10	12	0.8	1.06	122	30	0.5	< 2	6.89	32.0	26	92	142	2.02	< 10	< 1	0.17	< 10
N299693	205 226	< 2	< 5	< 2	< 0.2	0.04	< 2	>10000	< 0.5	< 2	>15.00	1.0	< 1	41	7	0.12	< 10	1	< 0.01	< 10
N299694	205 226	< 2	< 5	2	< 0.2	0.04	2	>10000	< 0.5	< 2	>15.00	2.0	< 1	30	3	0.11	< 10	< 1	< 0.01	< 10
N299695	205 226	< 2	< 5	< 2	< 0.2	0.03	< 2	>10000	< 0.5	< 2	>15.00	< 0.5	< 1	26	3	0.12	< 10	< 1	< 0.01	< 10
N299696	205 226	< 2	< 5	< 2	< 0.2	0.01	2	>10000	< 0.5	< 2	>15.00	< 0.5	< 1	16	< 1	0.07	< 10	< 1	< 0.01	< 10
N299697	205 226	< 2	< 5	2	< 0.2	0.01	< 2	5430	< 0.5	< 2	>15.00	< 0.5	< 1	26	< 1	0.15	< 10	< 1	< 0.01	< 10
N299698	205 226	< 2	< 5	< 2	< 0.2	0.01	< 2	>10000	< 0.5	< 2	>15.00	< 0.5	1	21	< 1	0.11	< 10	< 1	< 0.01	< 10
N299699	205 226	< 2	< 5	2	< 0.2	0.05	2	>10000	< 0.5	< 2	9.79	< 0.5	2	28	3	0.18	< 10	< 1	0.01	< 10

CERTIFICATION:

David A. Caulfield



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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

Project : BLK 97-04

Comments: ATTN:DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

Page Number :1-B
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Certificate Date: 18-SEP-97
Invoice No. :19741687
P.O. Number :
Account :EIA

CERTIFICATE OF ANALYSIS

A9741687

SAMPLE	PREP CODE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
N299660	205 226	0.21	135	58 < 0.01	182	350	6	< 2	3	636 < 0.01	< 10	< 10	951	< 10	674		
N299661	205 226	0.12	60	68 < 0.01	195	400	8	< 2	4	391 0.01	< 10	< 10	1430	< 10	624		
N299662	205 226	0.17	70	65 < 0.01	170	390	2	< 2	4	197 0.01	< 10	< 10	1280	< 10	472		
N299663	205 226	0.09	30	3 < 0.01	39	240	< 2	< 2	< 1	4880 < 0.01	< 10	< 10	75	< 10	336		
N299664	205 226	0.10	5	2 < 0.01	28	160	< 2	< 2	< 1	5110 < 0.01	< 10	< 10	47	< 10	38		
N299665	205 226	0.04	< 5	< 1 < 0.01	6	160	< 2	< 2	< 1	6590 < 0.01	< 10	< 10	23	< 10	14		
N299666	205 226	0.04	< 5	< 1 < 0.01	2	150	< 2	< 2	< 1	6630 < 0.01	< 10	< 10	18	< 10	16		
N299667	205 226	0.03	< 5	< 1 < 0.01	5	130	< 2	< 2	< 1	5740 < 0.01	< 10	< 10	22	< 10	24		
N299668	205 226	0.05	5	2 < 0.01	11	200	< 2	< 2	< 1	5310 < 0.01	< 10	< 10	34	< 10	28		
N299669	205 226	0.03	5	1 < 0.01	12	150	< 2	< 2	< 1	6110 < 0.01	< 10	< 10	25	< 10	52		
N299670	205 226	0.09	15	4 < 0.01	30	210	< 2	< 2	< 1	4360 < 0.01	< 10	< 10	38	< 10	152		
N299671	205 226	0.07	10	8 < 0.01	47	150	< 2	< 2	< 1	4740 < 0.01	< 10	< 10	110	< 10	258		
N299672	205 226	0.18	40	24 < 0.01	90	230	< 2	2	2	975 0.03	< 10	< 10	645	< 10	1985		
N299673	205 226	0.12	15	5 < 0.01	24	60	< 2	< 2	3	3170 < 0.01	< 10	< 10	127	< 10	1040		
N299674	205 226	0.10	55	56 < 0.01	185	600	2	2	1	154 0.06	< 10	10	1350	< 10	3230		
N299675	205 226	0.24	40	63 < 0.01	188	1000	6	2	4	498 0.05	< 10	10	2700	< 10	3110		
N299676	205 226	0.17	45	78 < 0.01	193	770	6	2	4	450 0.05	< 10	10	2550	< 10	4170		
N299677	205 226	2.60	160	57 < 0.01	163	770	6	< 2	4	824 0.04	< 10	< 10	2420	< 10	3560		
N299678	205 226	0.27	50	103 < 0.01	236	810	8	2	5	371 0.05	< 10	10	3010	< 10	6350		
N299679	205 226	0.24	65	69 < 0.01	213	410	6	< 2	4	324 0.03	< 10	10	1405	< 10	1220		
N299680	205 226	0.31	85	110 < 0.01	258	410	6	< 2	5	443 0.04	< 10	10	1200	< 10	1100		
N299681	205 226	0.15	60	125 < 0.01	276	320	6	2	4	308 0.06	< 10	10	1245	< 10	532		
N299682	205 226	0.13	45	130 < 0.01	272	240	4	2	4	233 0.05	< 10	10	1160	< 10	224		
N299683	205 226	0.06	5	5 < 0.01	17	180	< 2	< 2	< 1	6970 < 0.01	< 10	< 10	46	< 10	38		
N299684	205 226	0.03	5	3 < 0.01	12	140	< 2	< 2	< 1	4440 < 0.01	< 10	< 10	20	< 10	42		
N299685	205 226	0.07	10	2 < 0.01	10	140	< 2	< 2	< 1	5500 < 0.01	< 10	< 10	18	< 10	446		
N299686	205 226	0.12	40	71 < 0.01	159	270	2	< 2	3	486 0.06	< 10	< 10	1085	< 10	406		
N299687	205 226	0.17	75	65 < 0.01	165	210	< 2	< 2	3	297 0.06	< 10	< 10	1030	< 10	476		
N299688	205 226	0.23	140	92 < 0.01	221	330	12	< 2	4	319 0.10	< 10	< 10	1560	< 10	4470		
N299689	205 226	0.15	100	32 < 0.01	97	500	2	< 2	2	661 0.03	< 10	< 10	1030	< 10	8240		
N299690	205 226	0.19	65	80 < 0.01	124	860	22	2	4	232 0.06	< 10	10	3450	< 10	4080		
N299691	205 226	0.18	100	54 < 0.01	184	1620	6	< 2	3	268 0.04	< 10	< 10	2560	< 10	8020		
N299692	205 226	0.44	190	234 < 0.01	5170	2990	6	2	4	136 < 0.01	30	30	771	< 10	4360		
N299693	205 226	1.06	80	3 < 0.01	18	300	< 2	< 2	< 1	870 < 0.01	< 10	< 10	66	< 10	160		
N299694	205 226	1.22	40	6 < 0.01	128	300	< 2	< 2	< 1	1405 < 0.01	< 10	< 10	62	< 10	246		
N299695	205 226	2.45	135	1 < 0.01	22	280	2	< 2	< 1	1310 < 0.01	< 10	< 10	52	< 10	70		
N299696	205 226	1.69	75	< 1 < 0.01	30	200	< 2	< 2	< 1	1495 < 0.01	< 10	< 10	37	< 10	20		
N299697	205 226	2.75	70	6 < 0.01	52	290	< 2	< 2	< 1	1235 < 0.01	< 10	< 10	57	< 10	40		
N299698	205 226	2.06	65	5 < 0.01	36	440	2	< 2	1	1200 < 0.01	< 10	< 10	55	< 10	2		
N299699	205 226	4.16	150	10 < 0.01	67	1140	< 2	< 2	1	938 < 0.01	< 10	< 10	153	< 10	24		

CERTIFICATION: _____



Chemex Labs 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: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

Project : BLK 97-04

Comments: ATTN:DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

Page Number :2-A
Total Pages :2
Certificate Date: 18-SEP-97
Invoice No. :19741687
P.O. Number :
Account :EIA

CERTIFICATE OF ANALYSIS

A9741687

SAMPLE	PREP CODE		Au ppb	Pt ppb	Pd ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La
			AFS	AFS	AFS	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
N299700	205	226	2	5	4	0.4	0.40	28	50	< 0.5	< 2	6.59	18.5	29	82	156	0.93	< 10	< 1	0.08	< 10
N299701	205	226	2	< 5	4	0.4	0.32	20	90	0.5	< 2	3.83	3.0	3	143	63	0.97	< 10	< 1	0.10	< 10
N299702	205	226	< 2	< 5	2	0.4	0.29	18	140	0.5	< 2	6.06	3.0	3	104	34	0.82	< 10	< 1	0.08	< 10
N299703	205	226	4	< 10	8	0.4	0.34	22	110	0.5	2	4.22	3.0	3	146	44	1.05	< 10	< 1	0.11	< 10

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SAMPLE	PREP CODE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
N299700	205 226	1.02	145	63 < 0.01	6330	450	6	< 2	2	171	0.01	< 10	10	648	< 10	3440	
N299701	205 226	0.20	40	72 < 0.01	235	560	4	2	3	156 < 0.01	< 10	10	816	< 10	390		
N299702	205 226	0.25	50	58 < 0.01	298	500	2	< 2	3	407 < 0.01	< 10	< 10	639	< 10	456		
N299703	205 226	0.22	70	66 < 0.01	231	500	4	2	3	274 < 0.01	< 10	10	721	< 10	436		

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To: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

A9742839

Comments: ATTN: DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

CERTIFICATE

A9742839

(EIA) - EQUITY ENGINEERING LTD.

Project: REIN BLK97-04
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 23-SEP-97.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
299	3	Pulp; prepped on other workorder
229	3	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
2118	3	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	3	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	3	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	3	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	3	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	3	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	3	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	3	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	3	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	3	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	3	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	3	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	3	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	3	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	3	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	3	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	3	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	3	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	3	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	3	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	3	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	3	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	3	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	3	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	3	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	3	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	3	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	3	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	3	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	3	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	3	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	3	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



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VANCOUVER, BC
V6B 1N2

Project : REIN BLK97-04

Comments: ATTN: DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

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Account : EIA

CERTIFICATE OF ANALYSIS

A9742839

SAMPLE	PREP CODE	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
003909M	299 229	2.4	0.36	114	100	< 0.5	< 2	0.29	3.5	4	95	86	1.83	< 10	1	0.12	< 10	0.09	530	22
003910M	299 229	1.2	0.26	34	70	< 0.5	< 2	0.05	< 0.5	5	118	61	2.41	< 10	< 1	0.09	< 10	0.04	50	5
003911M	299 229	1.4	0.36	8	110	< 0.5	< 2	0.01	< 0.5	1	154	17	1.66	< 10	< 1	0.15	10	0.04	30	2

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207 - 675 W. HASTINGS ST.
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Project : REIN BLK97-04

Comments: ATTN: DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

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CERTIFICATE OF ANALYSIS

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SAMPLE	PREP CODE	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
003909M	299 229	< 0.01	63	1390	274	8	1	178	< 0.01	< 10	< 10	182	< 10	518
003910M	299 229	< 0.01	42	200	16	2	1	22	< 0.01	< 10	< 10	54	< 10	74
003911M	299 229	< 0.01	13	70	12	< 2	< 1	21	< 0.01	< 10	< 10	68	< 10	6

CERTIFICATION:

David B. ...



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To: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

A9742838

Comments: ATTN: DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

CERTIFICATE

A9742838

(EIA) - EQUITY ENGINEERING LTD.

Project: REIN BLK97-04
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 24-SEP-97.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	3	Geochem ring to approx 150 mesh
226	3	0-3 Kg crush and split
3202	3	Rock - save entire reject
232	3	Perchloric-nitric-HF digestion

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
975	3	Au ppb: ICP-fluorescence package	FA-ICP-AFS	2	10000
976	3	Pt ppb: ICP-Fluorescence package	FA-ICP-AFS	5	10000
977	3	Pd ppb: ICP-fluorescence package	FA-ICP-AFS	2	10000
25	3	Ba ppm: HClO4-HNO3-HF digestion	AAS	10	10000



CERTIFICATE OF ANALYSIS A9742838

CERTIFICATION:



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To: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

A9741689

Comments: ATTN:DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

CERTIFICATE

A9741689

(EIA) - EQUITY ENGINEERING LTD.

Project: BLK 97-44
P.O.#:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 1-OCT-97.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
299	44	Pulp; prepped on other workorder

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
3551	44	Ba %: XRF	XRF	0.1	100.0



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To: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

Project : BLK 97-44

Comments: ATTN:DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

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Account :EIA

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SAMPLE	PREP CODE	Ba XRF %									
N299660	299 --	2.3									
N299661	299 --	0.6									
N299662	299 --	2.1									
N299663	299 --	29.9									
N299664	299 --	32.0									
N299665	299 --	32.6									
N299666	299 --	33.1									
N299667	299 --	32.8									
N299668	299 --	29.5									
N299669	299 --	28.1									
N299670	299 --	27.4									
N299671	299 --	27.8									
N299672	299 --	8.8									
N299673	299 --	25.3									
N299674	299 --	1.9									
N299675	299 --	3.1									
N299676	299 --	0.5									
N299677	299 --	1.3									
N299678	299 --	0.4									
N299679	299 --	3.9									
N299680	299 --	2.0									
N299681	299 --	2.7									
N299682	299 --	2.3									
N299683	299 --	31.8									
N299684	299 --	32.5									
N299685	299 --	30.8									
N299686	299 --	4.2									
N299687	299 --	3.0									
N299688	299 --	1.3									
N299689	299 --	5.2									
N299690	299 --	0.5									
N299691	299 --	1.1									
N299692	299 --	6.2									
N299693	299 --	6.4									
N299694	299 --	5.8									
N299695	299 --	6.6									
N299696	299 --	9.6									
N299697	299 --	1.3									
N299698	299 --	10.3									
N299699	299 --	12.9									

CERTIFICATION:

David Bickler

Hart Buchler



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To: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

A9741690

Comments: ATTN: DAVID A CAULFIELD CC: BRIAN BUTTERWORTH

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(EIA) - EQUITY ENGINEERING LTD.

Project: BLK97-04
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 23-SEP-97.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
299 232	59 59	Pulp; prepped on other workorder Perchloric-nitric-HF digestion

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
25	59	Ba ppm: HCl04-HNO3-HF digestion	AAS	10	10000



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SAMPLE	PREP CODE	Ba ppm									
N299601	299 232	800									
N299602	299 232	2000									
N299603	299 232	1000									
N299604	299 232	800									
N299605	299 232	3500									
N299606	299 232	3100									
N299607	299 232	1100									
N299608	299 232	2400									
N299609	299 232	1400									
N299610	299 232	1000									
N299611	299 232	800									
N299612	299 232	1100									
N299613	299 232	1100									
N299614	299 232	1060									
N299615	299 232	900									
N299616	299 232	980									
N299617	299 232	1760									
N299618	299 232	1200									
N299619	299 232	1160									
N299620	299 232	980									
N299621	299 232	2800									
N299622	299 232	1640									
N299623	299 232	1160									
N299624	299 232	600									
N299625	299 232	700									
N299626	299 232	1280									
N299627	299 232	2700									
N299628	299 232	2000									
N299629	299 232	5100									
N299630	299 232	2700									
N299631	299 232	3800									
N299632	299 232	4200									
N299633	299 232	3600									
N299634	299 232	2400									
N299635	299 232	1400									
N299636	299 232	4700									
N299637	299 232	6500									
N299638	299 232	2000									
N299639	299 232	2700									
N299640	299 232	5200									

CERTIFICATION: _____



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

To: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

Project : BLK97-04

Comments: ATTN: DAVID A CAULFIELD CC: BRIAN BUTTERWORTH

Page Number :2
Total Pages :2
Certificate Date: 23-SEP-97
Invoice No. : I9741690
P.O. Number :
Account : EIA

CERTIFICATE OF ANALYSIS

A9741690

SAMPLE	PREP CODE		Ba ppm									
N299641	299	232	5000									
N299642	299	232	2900									
N299643	299	232	1600									
N299644	299	232	2300									
N299645	299	232	3200									
N299646	299	232	2400									
N299647	299	232	3000									
N299648	299	232	3000									
N299649	299	232	3200									
N299650	299	232	1000									
N299651	299	232	700									
N299652	299	232	520									
N299653	299	232	500									
N299654	299	232	720									
N299655	299	232	580									
N299656	299	232	2400									
N299657	299	232	560									
N299658	299	232	940									
N299659	299	232	2000									

CERTIFICATION: _____



Chemex Labs 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: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

A9743802

Comments: ATTN: DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

CERTIFICATE

A9743802

(EIA) - EQUITY ENGINEERING LTD.

Project: REIN BLK97-04
P.O. #:

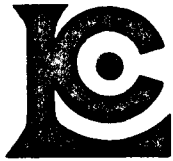
Samples submitted to our lab in Vancouver, BC.
This report was printed on 1-OCT-97.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	8	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
3551	8	Ba %: XRF	XRF	0.1	100.0



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VANCOUVER, BC
V6B 1N2

Project : REIN BLK97-04

Comments: ATTN: DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

Page Number : 1
Total Pages : 1
Certificate Date: 01-OCT-97
Invoice No. : 19743802
P.O. Number :
Account : EIA

CERTIFICATE OF ANALYSIS

A9743802

SAMPLE	PREP CODE	Ba XRF %									
N299711	244 --	7.5									
N299712	244 --	5.4									
N299713	244 --	7.1									
N299717	244 --	3.2									
N299718	244 --	2.6									
N299724	244 --	4.6									
N299741	244 --	1.5									
N299744	244 --	1.6									

CERTIFICATION:

David Bickler



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To: EQUITY ENGINEERING LTD.

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VANCOUVER, BC
V6B 1N2

A9745463

Comments: ATTN: DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

CERTIFICATE

A9745463

(EIA) - EQUITY ENGINEERING LTD.

Project: REIN BLK97-04
P.O.#:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 12-OCT-97.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	13	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
321	13	Ni %: HClO4-HNO3-HF digestion	AAS	0.01	100.0



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British Columbia, Canada V7J 2C1
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V6B 1N2

Project : REIN BLK97-04

Comments: ATTN: DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

Page Number :1
Total Pages :1
Certificate Date: 12-OCT-97
Invoice No. :19745463
P.O. Number :
Account :EIA

CERTIFICATE OF ANALYSIS

A9745463

SAMPLE	PREP CODE	Ni %									
N299706	244 --	0.22									
N299707	244 --	0.69									
N299708	244 --	2.29									
N299709	244 --	1.31									
N299710	244 --	1.25									
N299711	244 --	1.03									
N299712	244 --	1.77									
N299713	244 --	0.80									
N299714	244 --	0.13									
N299715	244 --	0.32									
N299716	244 --	0.12									
N299717	244 --	0.07									
N299718	244 --	0.15									

CERTIFICATION:



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To: EQUITY ENGINEERING LTD.

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VANCOUVER, BC
V6B 1N2

A9746137

Comments: ATTN:DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

CERTIFICATE

A9746137

(EIA) - EQUITY ENGINEERING LTD.

Project: BLK 97-04
P.O.#:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 15-OCT-97.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
268 234	2 2	Assay ring entire sample 0-7 Kg splitting charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
321	2	Ni %: HClO4-HNO3-HF digestion	AAS	0.01	100.0



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To: EQUITY ENGINEERING LTD.

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VANCOUVER, BC
V6B 1N2

Project : BLK 97-04

Comments: ATTN:DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

Page Number :1
Total Pages :1
Certificate Date: 15-OCT-97
Invoice No. :19746137
P.O. Number :
Account :EIA

CERTIFICATE OF ANALYSIS

A9746137

SAMPLE	PREP CODE		Ni %									
299692 299700	268 268	234 234	0.56 0.87									

CERTIFICATION:

Sara Leina



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To: EQUITY ENGINEERING LTD.

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VANCOUVER, BC
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A9746142

Comments: ATTN: DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

CERTIFICATE

A9746142

(EIA) - EQUITY ENGINEERING LTD.

Project: REIN BLK97-04
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 16-OCT-97.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
268 234	21 21	Assay ring entire sample 0-7 Kg splitting charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
321	21	Ni %: HClO4-HNO3-HF digestion	AAS	0.01	100.0



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VANCOUVER, BC
V6B 1N2

Project : REIN BLK97-04

Comments: ATTN: DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

Page Number : 1
Total Pages : 1
Certificate Date: 16-OCT-97
Invoice No. : 19746142
P.O. Number :
Account : EIA

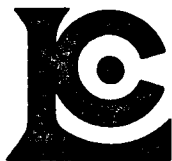
CERTIFICATE OF ANALYSIS

A9746142

SAMPLE	PREP CODE	Ni %										
299706	268 234	0.20										
299707	268 234	0.72										
299708	268 234	2.23										
299709	268 234	1.41										
299710	268 234	1.36										
299711	268 234	1.13										
299712	268 234	1.81										
299713	268 234	0.75										
299714	268 234	0.24										
299715	268 234	0.07										
299716	268 234	0.12										
299717	268 234	0.08										
299718	268 234	0.08										
299719	268 234	0.05										
299720	268 234	0.07										
299721	268 234	0.09										
299722	268 234	0.08										
299723	268 234	0.37										
299724	268 234	0.14										
299725	268 234	0.16										
299804	268 234	0.13										

CERTIFICATION:

Signature



Chemex Labs Ltd.

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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: EQUITY ENGINEERING LTD.

207 - 675 W. HASTINGS ST.
VANCOUVER, BC
V6B 1N2

A9744021

Comments: ATTN: DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

CERTIFICATE

A9744021

(EIA) - EQUITY ENGINEERING LTD.

Project: REIN BLK97-04
P.O.#:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 29-SEP-97.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	1	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
316	1	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0



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To: EQUITY ENGINEERING LTD.

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V6B 1N2

Project : REIN BLK97-04

Comments: ATTN: DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

Page Number : 1
Total Pages : 1
Certificate Date: 29-SEP-97
Invoice No. : 19744021
P.O. Number :
Account : EIA

CERTIFICATE OF ANALYSIS

A9744021

SAMPLE	PREP CODE	Zn %									
N299708	244 --	1.41									

CERTIFICATION:

David A. Caulfield

APPENDIX F

DIAMOND DRILL LOGS

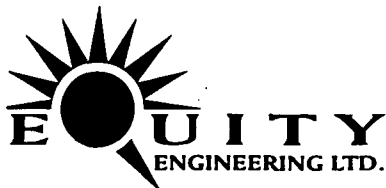
DRILL LOG

PAGE 3		OF 4		PROJECT REIN				HOLE 97-02				
DEPTH (M)	% CORE REC	% RQD	TAGS, SCL. INDEX	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY
							CA	VAULTS				
47.85						30.90-34.77 ARGILLACEOUS LIMESTONE.						
50	100	56				MASSIVE GREY IN COLOUR, FINE GRAINED AND						
50.90						INTERMEDIATE TO COARSELY CALCAREOUS. THE UNIT						
53.95						IS HARD BUT IS SCRATCHABLE WITH A KNIFE.						
55	104	41				THE UPPER 50cm IS SHOT THROUGH WITH						
57.00						CHALCITE VEINETS (6-2mm ACROSS). RAISE PY						
60.05						BLEDS ARE FOUND IN THIS SECTION. WITHIN THE						
63.09	90	8				AREA OF INTENSE CALCITE VEINING IS A 5cm WIDE						
65						INTERVAL OF RELATIVELY DISTANT ROCK THAT CON-						
66.14	94	51				TAINS THE SMALL (5-2mm), CIRCULAR &						
69.19						SLIGHTLY COARSER GRAINED BODIES THAT REACT						
70						100% STRONGLY TO HCL. THESE WERE DESCRIBED AS POSSIBLE						
72.24	99	97				RIPTURATION IN 97-01. FROM 32.96m TO 33.10m IS						
75.24						A ROUGH ZONE HOWEVER THE EXPOSURE IS UNKNOWN DUE						
78.23	103	83				TO BLOCKY CORE. DIRECTLY BELOW THIS ZONE IS A 10cm						
80.45						WIDE BARREN CALCITE VEIN. ANOTHER SHOT						
						VEIN CUTS AT 34.85m. BECOMES AT THE TOP OF						
						THE VEIN IS WEAKLY CALCITIZED INTO "S" ZONES						
						BUT FOR THE REMAINDER OF THE UNIT IT IS PLAIN.						
						UNIT IS NON-CONDUCTIVE.						
						34.97-38.25 CALCAREOUS ARGILLITE						
	103	70				THE UNIT IS DARK GREY AND UNIFORMLY FINE GRAINED.						
						FROM 36.3m TO 37.1m THE UNIT IS VARIABLY PREC-						
	95	75				IPATED BY CALCITE. LOCALLY THERE IS A WEAK REACTION						
						TO HCL. THE UNIT IS HARD BUT IS SCRATCHED WITH						
						A KNIFE WITH DIFFICULTY. UPPER CONTACT PLACED						
	98	94				AT BOTTOM OF LOWER CALCITE VEIN MENTIONED ABOVE.						
						LOWER CONTACT DIFFUSE. UNIT IS BARREN AND WEAKLY						
						TO LOCALLY MODERATELY CONDUCTIVE.						
						38.05-79.85 ARGILLACEOUS LIMESTONE						
	104	82				DARK GREY IN COLOUR WITH FINE GRAIN SIZE. VARIABLY						
						INTENSE CALCITE VEINING BUT OVERALL IT IS WEAK.						
	100	63				THE UNIT IS VERY HARD BUT SCRATCHABLE. A						
						UNIFORMLY STRONG REACTION TO HCL NOTED THROUGHOUT.						
						TESTACULITES CAN BE FOUND THROUGHOUT THE UNIT						
						ALSO, TRACE PIRITE FOUND THROUGHOUT IN SYNGEN-						
						ETIC BEDS. RARELY, SILTY INTERBEDS CAN BE						
						FOUND AND OCCUR IN SIZES UP TO 4cm IN THICK-						
						NESS. THESE INTERBEDS REACT SLIGHTLY MORE						
						INTENSELY TO HCL THAN THE REMAINDER OF						
						THE UNIT. SLIKS ARE RARE AND ONE FAULT NOTED						
						AT 49.65m DEPTH WITH A 6cm WIDE VUGGY						
						CALCITE VEIN. FRACTURES ARE WEAK AND GENERALLY						
						FOLLOW THE BEDDING PLANES.						

DRILL LOG

PROJECT <i>REIN</i>				COLLAR ELEVATION <i>1295m</i>			
HOLE <i>REN97-03</i>				AZIMUTH <i>000°</i>			
LOCATION <i>7180140N 637165E</i>				DIP <i>-50°</i>			
LOGGED BY <i>D.A. CAULFIELD</i>				LENGTH <i>21.95m</i>			
DRILLED BY <i>FALCON DRILLING</i>				HORIZONTAL PROJECTION			
ASSAYED BY				VERTICAL PROJECTION			
CORE SIZE <i>BTW</i>				 ALTERATION SCALE 0 1 2 3 absent slight moderate intense			
DATE STARTED <i>AUGUST 26, 1997</i>		DATE COMPLETED <i>AUGUST 26, 1997</i>					
DIP TESTS BY <i>NONE</i>							
DEPTH	DIP	AZIM	DEPTH	DIP	AZIM	 SULPHIDE SCALE 0 1 2 3 4 traces only < 1% 1% - 3% 3% - 10% > 10%	
OBJECTIVE <i>DRILL TEST SOIL ANOMALY ON LOWER STRUCTURAL PANEL ON THE MM GRID</i>							
SUMMARY LOG							
<i>Lithologies</i>				<i>Mineralization</i>			
<i>0-2.13 - Overburden</i>							
<i>2.13-3.00 - Silicious shale</i>				<i>No significant mineralization</i>			
<i>3.00-4.68 - Calcareous, silicious shale</i>							
<i>4.68-5.18 - Argillaceous limestone</i>							
<i>5.18-16.93 - Calcareous shale</i>							
<i>16.93-17.24 - Shale</i>							
<i>17.24-18.43 - Calcareous shale</i>							
<i>18.43-18.78 - Shale</i>							
<i>18.78-19.22 - Calcareous shale</i>							
<i>19.22-19.80 - Shale</i>							
<i>19.80-20.27 - Calcareous shale</i>							
<i>20.27-21.95 - Shale</i>							
<i>* Hole lost due to cave in hole; core barrel lost.</i>							

PAGE 1 OF 2			PROJECT REIN		HOLE REN97-03							
DEPTH (M)	% CORE REC	% RQD	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	QZ/ CA/ GY	ALTERATION					FRACTURE INTENSITY
					0-2.13 QVB							
5.18	38	0	SHL SH 2.7 CA SH ARG. LST		2.13-3.00 Silicious shale : rubble zone, grayish black, hard (can be scratched), JA.6Y, m fractures, relatively conductive							
8.23	95	15	CA SH		3.00-4.68 Calcareous, silicious shale: similar to above zone in colour, hardness, distinguished by presence of CA							
10	100	36			4.68-5.18 Argillaceous limestone: medium grey, thin bedded, non-conductive							
11.28	100	4			5.18-16.93 Calcareous shale: black, soft to scratch, carbonaceous partings (cleavage = bedding) weakly conductive, more conductive along partings							
14.33	82	0			16.93-17.24 Shale: as above but lacking calcareous content, weakly conductive							
15					17.24-18.43 Calcareous shale: as above							
17.37	100	12	SH CASH SH CASH SH CA SH		18.43-18.78 Shale: medium dark grey, soft, noncalcareous							
20					18.78-19.22 Calcareous shale: as above							
20.42	66	0			19.22-19.80 Shale: as above							
21.95					19.80-20.27 Calcareous shale							
EQH					20.27-21.95 Shale: as above, soft, greyish black thinly laminated.							



DRILL LOG

PROJECT <i>REIN</i>				COLLAR ELEVATION <i>1295 m</i>			
HOLE <i>REN97-04</i>				AZIMUTH <i>000°</i>			
LOCATION <i>7180140 N</i> <i>637165 E</i>				DIP <i>-60°</i>			
LOGGED BY <i>C. BAKER</i>				LENGTH <i>41.76 m</i>			
DRILLED BY <i>FALCON DRILLING</i>				HORIZONTAL PROJECTION			
ASSAYED BY <i>CHEMEX LABS</i>				VERTICAL PROJECTION			
CORE SIZE <i>BTW</i>				ALTERATION SCALE			

PAGE 1 OF 3		PROJECT REIN		HOLE 97-04								
DEPTH (M)	% CORE REC	% RQD	SUMMARY	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY
						0-2.13 OVERBURDEN (CASING)						
2.13						2.13-16.7 CALcareous SHALE						
	78	0				BLACK, FINE GRAINED & FINELY BEDDED.						
6.78						THE UNIT IS MODERATELY HARD BUT						
	89	10		SH	BEDDING	BUT IS SCRATCHABLE WITH KNIFE.						
8.23						CARBONATE VEINING IS VARIABLE BUT OVER-						
	92	26				ALL IT IS VERY WEAK. TAPESITE IS						
10						PRESENT ON SOME FRACTURED SURFACES AND IN						
						SOME OF THE CALCITE VEINS. REACTION TO						
11.27						HCL IS WEAK TO LOCALLY MODERATE. UNIT						
	87	0				IS VERY WEAKLY CONDUCTIVE. LOWER CONTACT DIFFUSE.						
12.65						FRACTURES GENERALLY PARALLEL TO BEDDING						
14.33	93	31										
15	96	36										
16.00												
17.37	100	34				16.7-26.2 SHALE						
						BLACK, FINELY LAMINATED AND VERY FINE GRAINED.						
	100	8				MINOR TAPESITE AND FRACTURE SURFACES & VIRTUALLY						
20						NON-ORIENTED CARBONATE VEINING. NO REACTION						
20.42	98	0		SH		TO HCL EXCEPT IN RARE CALCITE VEINS. IN BOTTOM						
22.25						1m OF UNIT IS A 30cm WIDE CHERTY						
	98	7				ZONE THAT CONTAINS TRACE DISCONTINUED CALCITE						
24.08						GIVING A VERY WEAK REACTION TO HCL.						
25	100	30										
26.52						26.2-27.3 CALcareous SHALE						
	100	25				AS PER 2.13-16.7m						
29.57						ON 2.13x						
30						27.3-41.0 SHALE/ARGILLITE						
	89	30		SH		BLACK, FINE GRAINED TO VERY FINE GRAINED WITH						
32.61						OBSCUR BEDDING. UNIT IS VARIABLY HARD						
	93	25				AND IN SOME SECTIONS IT IS EASILY PITTED						
35						WITH A KNIFE AND FRIABLE. IN THE UPPER						
35.46						2m OF THE UNIT GYPSUM VEINS ARE PRESENT						
						IN MINOR AMOUNTS. THESE ARE VARIABLE IN						
	100	16				THICKNESS (6-4mm) AND ORIENTATION. A 35cm						
38.71						THICK SECTION STARTING AT 33.8m IS SO FINE						
						GRAINED THAT ONLY A SCRATCHED THE SURFACE						
40						APPEARS AND FEELS WAXY. THIS SECTION IS NON-						
	50	0				CONDUCTIVE WHERE AS THE REMAINDER IS WEAKLY						
41.76						TO MODERATELY CONDUCTIVE. UPPER AND LOWER						
44.76						CONTACTS DIFFUSE.						

[illegible]

PAGE 1 OF 4			PROJECT REIN		HOLE 97-05					
DEPTH (M)	% CORE REC	% RQD	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION				FRACTURE INTENSITY
						CA	VALS			
					0-4.57 OVERBURDEN (CASING)					
4.57										
5.18	107	0			4.57-11.3 ARGILLITE WITH MINOR (CHERT					
					BEDDING DARK GREY, FINE GRAINED AND DOMINANTLY					
	61	0			MASSIVE. REACTION TO HCL IS MODERATE OVERALL					
8.23					BUT MAY BE LOCALLY WEAK. CALCITE VEINING					
7.45	61	0			IS MINOR BUT THE CORE IS VERY RUGGELY					
10	77	17			SO AN ESTIMATION OF VEIN CONTENT IS DIFFICULT.					
11.28					THE UNIT IS HARD BUT CAN BE SCRATCHED					
					WITH DIFFICULTY. MINOR TARDITE IS PRESENT					
	100	27			ON FRACTURES AND IN CARBONATE VEINS.					
14.33					THE UNIT IS WEAKLY CONDUCTIVE IN THE					
15	96	39			UPPER 1.5m AND EXTREMELY WEAKLY CONDUCTIVE					
					THROUGHOUT THE REMAINDER. FRACTURES PARALLEL TO BEDS.					
17.37					11.3-13.4 CHERTY ARGILLITE/SHALE					
	93	34			DARK GREY IN COLOUR, GENERALLY MASSIVE, FINE					
					GRAINED AND IS UNSCRATCHABLE WITH KNIFE.					
20.92					NO REACTION TO HCL EXCEPT FOR WEAK HAIRLINE					
	46	19			CALCITE VEINING. CONDUCTIVITY IS VERY LOW.					
22.9					UPPER & LOWER CONTACTS DIFFUSE.					
24.925	102	47			13.4-18.9 CALCAREOUS ARGILLITE					
					DARK GREY IN COLOUR, VARIABLY HARD, A STRONG					
26.52	81	44			REACTION TO HCL NOTED. GRAIN SIZE IS UNIFORM					
	98	23			FINE AND THE UNIT IS MASSIVE. CALCITE VEINING					
28.96					IS WEAK AND TARDITE IS COMMON ON HARD VEINS					
30	100	93			AND SOME OF THE FRACTURES. AN INTERBED OF					
32.00					COARSER GRAINED CALCAREOUS SILTSTONE IS					
	100	57			PRESENT FROM 18.70m TO 18.94m WHICH GIVES A					
34.35					STRONG REACTION TO HCL ON THE UPPER SIDE OF					
	94	54			THIS INTERVAL ARE THE POSSIBLE TRACE FOSSILS					
37.19					DESCRIBED IN 97-01. CONDUCTIVITY IS LOW THROUGH-					
	105	35			OUT THE INTERVAL. LOWER CONTACT IS SHARP AT					
40	57	19			BASE OF SILTY INTERVAL.					
41.15					18.9-22.9 CHERTY ARGILLITE PER 11.3-13.4m. VERY MINOR CALCITE					
	82	49			VEINING PRESENT BUT NO EFFERVESCENCE IN MATRIX.					
44.91					UNSCRATCHABLE & NEGLECTIBLE CONDUCTIVITY.					
					LOWER CONTACT SHARP BUT IN RUDDY CORE					
					22.9-39.45 CALCAREOUS BARITE HORIZON					
					MEDIUM-LIGHT GREY IN COLOUR WITH MEDIUM-DARK					
					GREY POSSIBLE ALTERATION HALOS (E 2m-4m)					
					ALONG HEALED HAIRLINE JOINTS (THESE FEATURES					
					ARE UNIFORM). SLIGHTLY DARKER GREY BEDDING					
					TRACES ARE NOTED THROUGHOUT. THE UNIT ALSO					
					(WAVY)					
					THE BEDDING IS MILDLY CONVOLUTED IN PLACES					

PAGE 3 OF 4			PROJECT REIN		HOLE 97-05						
DEPTH (M)	% CORE REC	% RQD	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY
						CA					
47.85 50M	119	69			BUT IS GENERALLY PLANAR. GRAIN SIZE IS FINE TO MEDIUM AND THE UNIT IS NON-CONDUCTIVE. THE REACTION TO HCL IS VERY STRONG. JAROSITE IS PRESENT ON SOME FRACTURES THROUGHOUT AND CALCITE VEINING IS WEAK OVERALL EXCEPT LOCALLY WHERE LARGE CALCITE (± QTZ) VEINS CAN BE FOUND. THESE VEINS ARE ≤ 1cm WIDTH. UPON SPLITTING THE SULPHUR SMOKE IS STRONG. IN SOME SECTIONS THE PREVIOUSLY DESCRIBED ALTERATION HALOS (?) FORM A CRACKLE TEXTURE. THE MOST NOTABLE IS FROM 32.2 TO 33.4 m. BOTTOM CONTACT SHARP & STEPPED AT 90° TO CA. 39.5-48.9 CALCAREOUS ARGILLITE DARK GREY, FINE GRAIN SIZE & LOCALLY FINELY LAMINATED. REACTION TO HCL IS MODERATE OVERALL BUT MAY BE LOCALLY WEAK. THE UNIT IS SCARCELY BUT IS GENERALLY NON-CONDUCTIVE. THE UPPER 2.8m IS INTENSELY VEINED WITH CALCITE. THE VEINS FROM 1mm TO APPROX 33cm WIDTH. THE SMALLER VEINS MAY FORM LOCAL PSEUDOGREISS AND LADDER VEINS. JAROSITE IS PRESENT SPORADICALLY IN THE UPPER, STRONGLY VEINED SECTION. FROM 42.15m TO 42.30m, A SECTION OF STRONG CARBONATE VEINING. ANABERGITE IS PRESENT ON FRACTURE SURFACES AND IN SOME OF THE VEINS. ZINC-BAD APPLIED TO FRACTURES IN THIS INTERVAL TURNS A DEEP, RUSTY RED IN COLOUR. COLOURS OF OXIDE MINERALS IN THIS SECTION INCLUDE LIME-GREEN, FAYEST GREEN, AZURITE-LIKE BLUE & GREENISH-YELLOW. NO SULPHIDES DETECTED. UNIT IS MODERATELY TO STRONGLY CONDUCTIVE WITH LOCAL PATCHES OF WEAK CONDUCTIVITY.						

PAGE 1 OF 3			PROJECT		HOLE					
			REIN		97-06					
DEPTH (M)	% CORE REC	% RQD	LITHOLOGY	STRUCTURE	ALTERATION				FRACTURE INTENSITY	
					0-3.05	OVERBURDEN (EASED)				
3.05	100	24			3.05-10.8	CHERTY ARGILLITE				
5.12					BEDDING @ 70°	DARK GREY IN COLOUR WITH VERY FINE GRAIN				
	100	49	CA	AR	BEDDING @ 50°	SIZE AND MASSIVE TO VERY FINELY LAMINATED.				
8.23						THIS UNIT DOES GIVE A MILD REACTION TO HCL				
10	100	18			BEDDING @ 65°	AND HAS SIGNIFICANT CALCITE VEINING THROUGHOUT. VEIN ORIENTATIONS ARE VARIABLE BUT				
11.23						THEY ARE DOMINANTLY PARALLEL/SUBPARALLEL				
	98	61				TO THE BEDDING PLANES. DISCRETE IS OFTEN				
14.43			AR			PRESENT ON FRACTURES AND, RARELY WITHIN				
15	100	32			BEDDING @ 65°	THE CALCITE VEINING BELOW 7.10m THE MATRIX				
17.37						CALCITE CONTENT DROPS TO NEGLIGIBLE AMOUNTS.				
20	100	40	CA	AR	BEDDING @ 65°	HOWEVER, STRUCTURALLY CONTROLLED CALCITE IS UNCOMMON.				
20.42						LOWER CONTACT GRADATIONAL. UNIT IS WEAKLY CONDUCTIVE				
23.47	100	42				APPEARANCE TO ABOVE UNIT IS VERY SIMILAR				
25						EXCEPT MATRIX CALCITE CONTENT IS NEGLIGIBLE				
26.52						AND IT IS NOTABLY SOFTER. TARCITE IS LESS				
29.52	100	8				COMMON BUT IS STILL PRESENT ON BOTH VEINS AND				
30						FRACTURE SURFACES. LOWER CONTACT GRADATIONAL.				
32.61	100	0	CA	SH	17.0-20.9	CHERTY ARGILLITE				
35					BEDDING @ 50°	AS PER 3.05-10.8m IN GENERAL CHARACTERISTICS.				
35.56	100	52			BEDDING @ 30°	CALCITE VEINING IS SIGNIFICANTLY LESS EXCEPT IN				
38.71						LOCALIZED ZONES OF A FEW CM WHERE VEINING				
40	100	8				BECOMES MODERATE. TARCITE IS RARE ON FRACTURE				
41.76						SURFACES AND NEGLIGIBLE IN VEINS. LOWER CONTACT				
45	100	0				IS GRADATIONAL OVER 5cm. UNIT IS NON-				
						CONDUCTIVE. CALCITE CONTENT INCREASES BELOW 18.0m				
	78	10	CA	BR	20.9-33.6	CALCAREOUS BLACK SHALE				
					BEDDING @ 30°	FINE GRAINED, BUT SLIGHTLY COARSER THAN				
					BEDDING @ 30°	ABOVE UNITS, WEAKLY TO MODERATELY				
					BEDDING @ 15°	CALCAREOUS AND SOFT. WITHIN THE UNIT ARE				
	100	0	CA	SH		SHALL LENSES OF COARSER GRAINED SEDIMENT				
						THAT ARE VERY SOFT (CAN BE INDENTED				
						EASILY WITH FINGER NAIL). BEDDING				
						LAMINATIONS ARE FINE THROUGHOUT AND RARE				
	100	18				CALCITE VEINS ARE DOMINANTLY PARALLEL TO				
						BEDDING. FRACTURING INCREASES SIGNIFICANTLY				
						IN LOWER 3m OF UNIT. UNIT IS VERY WEAKLY				
						CONDUCTIVE. LOWER CONTACT GRAD BUT ORIENTATION				
						DISCRETELY OR SPARSELY CORE.				
					33.6-35.6	CALCAREOUS BARITE HORIZON				
						MEDIUM GREY IN COLOUR WITH DARKER GREY BEDDING				

[illegible]

PAGE 1 OF 3			PROJECT REIN		HOLE 97-07						
DEPTH (M)	% CORE REC	% RQD	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY
						CA	W	LT	SS	CH	
0-7.92					OVER BURDEN						
7.92-16.00	44	0			CHERTY ARGILLITE						
					DARK GREY IN COLOUR WITH UNSCRATCHABLE						
					MATRIX. NO REACTION TO HCL. ABUNDANT						
					JAROSITE THROUGHOUT ON FRACTURE SURFACES.						
					CORE IS EXTREMELY RUBBLE SO NO STRUCTURAL						
					MEASUREMENTS OBTAINED. VERY WEAK CALCITE VEINING						
					NOTED IN LARGED PIECES OF CORE. GRAIN SIZE IS						
					UNIFORMLY FINE THROUGHOUT THE UNIT. LOWER CONTACT						
					GRADATIONAL. (UNIT IS NON-CONDUCTIVE)						
16.0-23.2	16	0			BLACK SHALE.						
					VERY SOFT & FRIABLE. UNIT IS MASSIVE AND HAS						
					A LOCAL WEAK REACTION TO HCL. FINE GRAINED						
					THROUGHOUT. (UNIT IS VERY WEAKLY CONDUCTIVE)						
23.16m - 24.38m					NO RECOVERY						
24.4-32.7					CALCAREOUS BARITE HORIZON.						
					LIGHT GREY IN COLOUR WITH FINE TO MEDIUM GRAIN SIZE						
					THE UNIT REACTS STRONGLY TO HCL. THE UNIT IS MODERATELY						
					MINERALIZED WITH CALCITE AND IS USUALLY DISSEMINATED IN						
					SOME SECTIONS. THE MATRIX OF THE BRECCIATION						
					IS CALCITE AND IT APPEARS AS THOUGH SOME OF THE						
					SEDIMENTS WERE TAKEN UP INTO THE BARITE						
					HORIZON DURING BRECCIATION. THE BEDDING IS						
					VARIABLE THROUGHOUT. THE UPPER 1.5m OF THE						
					INTERVAL HAS MODERATE JAROSITE ON THE FRACTURES.						
					LOWER CONTACT IN RUBBLY CORE						
32.7-40.6					CALCAREOUS ARGILLITE						
					DARK GREY IN COLOUR WITH UNIFORMLY FINE						
					GRAIN SIZE. THE UNIT IS VERY HARD AND						
					REACTS STRONGLY TO HCL. CALCITE VEINING						
					IS WEAK OVERALL BUT AT THE TOP OF THE						
					UNIT IT IS SLIGHTLY MORE INTENSE. IN THIS						
					NARROW ZONE ABUNDANT VEINING MINOR AMOUNTS						
					OF JAROSITE WAS OBSERVED WITH MINOR JAROSITE						
					ALSO. NO REACTION TO HCL. ZAP OBSERVED.						
					LOWER IN THE UNIT ARE SLIGHTLY COARSER GRAINED						
					SILT INTERFINGERS WHICH ARE RELATIVELY CARBONACEOUS.						

DRILL LOG

PROJECT REIN				COLLAR ELEVATION 1390m			
HOLE REN97-08				AZIMUTH 000°			
LOCATION 7179895N 637535E				DIP -60°			
LOGGED BY C. BAKER				LENGTH 66.15m			
DRILLED BY FALCON DRILLING				HORIZONTAL PROJECTION			
ASSAYED BY CHEMEX LABS				VERTICAL PROJECTION			
CORE SIZE 13TW				ALTERATION SCALE  absent slight moderate intense			
DATE STARTED 30/08/99		DATE COMPLETED 31/08/99					
DIP TESTS BY NONE				SULPHIDE SCALE  traces only < 1% 1% - 3% 3% - 10% > 10%			
DEPTH	DIP	AZIM	DEPTH				
OBJECTIVE TO TEST NI-MO-PD-AS-ZN SOIL GEOCHEMICAL ANOMALY ON THE MM GRID							
SUMMARY LOG							
LITHOLOGY:							
0-4.57 OVERBURDEN (CASED)				51.1 - 52.5 SHALE			
4.57-8.2 BLACK SHALE				52.5 - 56.1 CHERTY ARGILLITE			
8.2-9.5 CHERTY ARGILLITE				56.1 - 66.15 ARGILLACEOUS LIMESTONE			
9.5-21.2 BLACK SHALE							
21.2-21.7 SILTY LIMESTONE / ARGILLITE				MINERALIZATION:			
21.7-29.9 BLACK SHALE				FOSSILIFEROUS EVENT BED IS Fe-RICH & CONTAINS TRACE HYDROZINITE, FRACTURE			
29.9-31.9 FOSSILIFEROUS EVENT BED				CONTROLLED ANNABERGITE TRACE ANNABERGITE IN CALCITE VEINS WITH			
31.9-32.6 LIMESTONE BALL				HYDROZINITE. SIGNIFICANT COENITE AND ANNABERGITE IN CALCAREOUS MARBLE			
32.6-33.75 FOSSILIFEROUS EVENT BED				HORIZON. SAMPLES TAKEN FROM 25.3m TO 36.2m. BEST INTERSECTIONS			
33.75-34.04 LIMESTONE BALL				52.5m TO 56.1m AND NARROW BRECCIA ZONE FROM 55.0 TO 55.1m			
34.04-34.95 FOSSILIFEROUS EVENT BED.				CONTAINING ANNABERGITE AND HYDROZINITE.			
34.95-35.2 LIMESTONE BALL							
35.2-40.6 BLACK SHALE							
40.6-49.9 CALCAREOUS MARBLE HORIZON							
49.9-50.6 BLACK SHALE							
50.6-51.1 SILTY LIMESTONE							

PAGE 1		OF 5		PROJECT REIN		HOLE 97-08					
DEPTH (M)	% CORE REC	% RQD	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION				FRACTURE INTENSITY	
					0-4.57 OVERBURDEN (CASED)						
4.57-5.8	100	0	BL SH		4.57-8.2 BLACK SHALE						
5.8-8.23	36	0			BLACK WITH UNIFORM FINE GRAIN SIZE. NO MATRIX CALCITE & UNIT IS QUITE SOFT AND FRILABLE.						
8.23-10	74	77	CH AR		FERRIC IS VERY RUDDY MAKING STRUCTURAL MEASUREMENTS IMPOSSIBLE, VERY WEAKLY CONDUCTIVE, TRACE JAROSITE						
10-10.52					9.2-9.5 CHERTY ARGILLITE						
10.52-12.20	92	0			DARK GREY IN COLOUR, FINE GRAINED AND WORKABLE						
12.20-14.33	42	0			MATRIX CALCITE CONTENT IS LOW BUT CALCITE VEINING IS LOW TO MODERATE. JAROSITE IS PRESENT ON FRACTURES AND WITHIN THE CALCITE VENS. NON-CONDUCTIVE. UPPER AND LOWER CONTACTS SHARP BUT IN RUBBLY CORE. NON CONDUCTIVE.						
14.33-17.37	92	5			CLAY SEAM						
17.37-20					9.5-21.2 BLACK SHALE						
20-20.42					AS PER 4.57-9.23m, CALCITE VEINING IS HIGHER THAN ABOVE BLACK SHALE AND JAROSITE PRESENT ON SOME FRACTURES AND IN CARBONATE VENTS. AT 15.2m A 15cm RELATIVELY WELL BEDDED HARD SECTION OCCURS WHICH CONTAINS FINELY BEDDED ARGILLACEOUS MATERIAL AND MINERAL. THE REMAINDER OF THE UNIT IS RUBBLE. A NARROW 6mm WIDE CLAY SEAM OCCURS AT 17.1m DEPTH.						
20.42-21.18	100	0			REACTION TO HCL IS SPORADIC AND WEAK. THE UNIT IS WEAKLY TO MODERATELY CONDUCTIVE						
21.18-23.47	100	28			21.2-21.7 SILTY LIMESTONE / ARGILLITE						
23.47-25	100	0			MEDIUM-DARK GREY IN COLOUR WITH COARSER GRAIN SIZE. REACTIONS TO HCL IS VERY STRONG. MODERATELY TO COARSELY LAMINATED. TRACE JAROSITE ON FRACTURE SURFACES & NO CALCITE VEINS. UNUSUAL "ZONING" TO THIS INTERVAL? OUTER 10cm ON EITHER SIDE IS STRONGLY CALcareous & COARSE GRAINED; INNER 20cm IS FINE GRAINED & NON REACTIVE; IN THE CENTER OF THIS SECTION IS AN AMFOBOID SHAPE, COARSE GRAINED & STRONGLY CALcareous BODY APPROX 2cm ACROSS, POSSIBLY A CORRELATION "LINE-STONE DALL" CALcareous SILT ? ARGILLITE ? BTW 21.18m CALcareous SILT 21.7m						
25-25.30	100	5	BL SH		WEAKLY CONDUCTIVE THROUGHOUT.						
25.30-28.04					21.7-29.9 BLACK SHALE						
28.04-30	95	17			AS PER 4.57-8.23 + IS WEAKLY CALcareous THROUGHOUT. PARTINGS ARE PROVEN TO BEDDING. TRACE CALCITE VEINING. LOWER CONTACT IN RUBBLE						
30-31.09											
31.09-34.14	100	8									
34.14-35	100	57									
35-37.17											
37.17-38.71	71	35									
38.71-39.93	77	20									
39.93-41.76	100	81									
41.76-44.71											
44.71-47.15	100	69									

PAGE 2 OF 5		PROJECT REIN					HOLE 97-08				
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS					
		FROM	TO	WIDTH		Au ppb	Pt ppb	Pd ppb	Mo ppm	Ni ppm	Zn ppm
5		4.57	8.23	3.66	299786	6	25	4	28	38	246
		8.23	9.50	1.27	87	22	25	22	41	223	1130
10		9.50	10.52	1.02	88	22	25	22	67	227	1210
		10.52	12.80	2.28	89	22	25	4	70	71	216
		12.80	14.33	1.53	299790	22	25	22	69	216	2470
		14.33	15.83	1.50	91	4	210	24	64	184	534
15		15.83	17.37	1.54	92	22	25	22	66	49	56
		17.37	20.42	3.05	93	22	25	22	45	208	484
20											
		20.42	21.18	0.76	94	22	25	22	40	190	860
		21.18	21.70	0.52	95	22	25	22	63	370	588
		21.70	23.70	2.00	96	22	25	22	70	297	928
		23.70	25.30	1.60	97	22	25	22	67	219	226
75		25.3	27.0	1.7	299704	4	25	4	73	273	412
		27.0	29.0	2.0	299705	2	25	4	71	309	290
		29.0	29.9	0.9	299706	18	30	24	103	2290	1025
		29.9	31.0	1.1	299707	8	50	30	182	6690	3710
FOURIFEROUS EVENT BED CONTAINS SIGNIFICANT											
20		31.0	31.9	0.9	299708	12	105	62	314	710,000	1.41%
		31.9	32.6	0.7	299709	4	20	18	133	710,000	3220
		32.60	33.75	1.15	299710	14	130	78	330	710,000	8030
		33.75	34.04	0.29	299711	6	25	18	107	8760	4010
		34.04	34.95	0.91	299712	6	50	32	262	710,000	7380
35		34.95	35.2	0.25	299713	2	5	6	44	7220	3400
		35.2	37.2	2.0	299714	2	25	4	80	1430	1030
		37.2	39.2	2.0	299715	4	5	8	99	3270	2960
		39.2	40.6	1.4	299716	2	25	4	67	1200	2840
40		40.6	42.6	2.0	299717	22	25	22	4	652	1810
		42.6	44.6	2.0	299718	22	5	4	18	1260	4180
		44.6	46.6	2.0	299719	22	25	22	4	434	5050
45		46.6	48.6	2.0	299720	22	25	2	7	590	7000

PAGE 3 OF 5			PROJECT REIN		HOLE 97-08							
DEPTH (M)	% CORE REC	% RQD	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	
						CA	VEINLITE	ENDITE	VEINLITE	TARLITE		CAINITE
47.85	100	56			29.9-31.9 FOSSILIFEROUS EVENT BED. MOTTLED OLIVE GREEN & BROWN. UNIT IS MODERATELY SOFT AND CONSISTS OF CRINOID OSICLES AND SMALL (2mm) BIVALVE SHELL FRAGMENTS IN A MATRIX OF SILT. CALCITE IS VIRTUALLY NON-EXISTANT EXCEPT FOR RARE RIP-UP CLASTS OF WEAKLY CALCAREOUS SILT. TARLITE IS UNIFORM. ZINC-ZAP POURED ON (INDICATING HYDROXILITE). THIS UNIT TURNED A RUSTY ORANGE-RED. IN BOTTOM 10cm OF UNIT IS A BROWN CALCAREOUS BODY WITH A SHARP BOUNDARY THAT MEASURES 7cm ACROSS LARGEST DIMENSION (CONCRETION).							
50	100	52			CONTACT @ 65° FAULT @ 30° CONTACT @ 40° BEDDING @ 40° CONTACT @ 40°							
50.70			SH									
53.74	100	53	CH AR									
55	100	77										
700												
60.05	100	57	AR LS		31.9-32.6 LIMESTONE BALL (CONCRETION) MEDIUM DARK GREY IN COLOUR. STRONG REACTION TO HCL EXCEPT IN NARROW (7cm) ZONES WITHIN THE OUTER 15cm OF EACH SIDE THAT DO NOT REACT. UPPER AND LOWER CONTACTS SHARP AND CONCAVE. CONCAVE SIDES OF THE CONTACTS FACE TOWARDS EACH OTHER. TRACE AMOUNTS OF ANNABERGITE PRESENT IN CARBONATE VEINS AND ON FRACTURES.							
60.25					BEDDING @ 55° F @ BEDDING @ 60° OF							
61.0												
65	95	55			BEDDING @ 55°							
66.15												
66.4					32.6-33.8 FOSSILIFEROUS EVENT BED AS PER 29.9-31.9m. ZINC-ZAP DOES NOT REACT.							
					33.8-34.0 LIMESTONE BALL (CONCRETION) AS PER 31.9-32.6m EXCEPT REACTIVE TO HCL OVER THE WHOLE INTERVAL.							
					34.0-34.9 FOSSILIFEROUS EVENT BED AS PER 29.9-31.9m. A 0.5cm wide CARBONATE VEIN CONTAINING TARLITE AND TRACE ANNABERGITE & HYDROXILITE RUNS SUBPARALLEL TO THE CORE AXIS.							
					34.9-35.2 LIMESTONE BALL AS PER 31.9-32.6m WHERE CORE OF THE CONCRETION IS NON-REACTIVE. MINOR CALCITE VEINING AND IN ONE UGGY CALCITE VEIN SMALL, PRISMATIC GYPSUM CRYSTALS (UP TO 3mm LONG) WERE NOTED							
					35.2-40.6 BLACK SHALE AS PER 4.57-8.23m EXCEPT CALCITE VEINING IS MORE INTENSE. TARLITE IS COMMON WITH THE CALCITE VEINING WHICH BECOMES MORE INTENSE BELOW 39.9m. MINOR PRECIPITATION AT 40.6m WHERE CALCITE FORMS THE MATRIX AND GYPSUM CRYSTALS ARE FOUND IN OPEN SPACES. BOTTOM CONTACT SHARP AT 75"							
					40.6-49.9 CALCAREOUS TARLITE HORIZON PATCHY MEDIUM GREY w/ GASTRITE (TR. TARLITE) & GASTRITE PRECIPITATION THROUGHOUT THE UNIT. UNIT							

PAGE 5		OF 5		PROJECT REIN		HOLE 97-08							
DEPTH (m)	% CORE REC	% RQD		LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	
						VARIABLY DRELLIATED THROUGHOUT AND THE GOETHITE & SERICITE ARE GENERALLY ASSOCIATED IN THE DRELLIATED SECTIONS BUT GOETHITE IS MORE COMMON THROUGHOUT. ACICULAR GYPSUM CRYSTALS ARE GROWING IN CAVITIES AND ON FRACTURE SURFACES THROUGHOUT THE INTERVAL. REACTION TO HCL IS UNIFORMLY STRONG OVER THE UNIT. THE BOTTOM 2m OF THE UNIT ARE THE MOST INTENSELY DRELLIATED WITH UBIQUITOUS GOETHITE/TAROSITE AND SERICITE (MINOR). GYPSUM VEINS ARE RARE IN THE BARITE HORIZON AND HAVE GOETHITE ALONG VEIN BOUNDARIES.							
						49.9-50.6 BLACK SHALE							
						AS PER 4.57-8.23, LOWER 20cm IS FAULTED. NO CALCITE & MINOR TAROSITE. LOWER CONTACT SHARP/D 40°							
						50.6-51.1 SILTY LIMESTONE							
						FINE TO MEDIUM GRAINED, MEDIUM DARK GREY WITH STRONG REACTION TO HCL. SIGNIFICANT GOETHITE ON PARALLEL/SUBPARALLEL PARTINGS (BEDDING) AND WEAK CALCITE VEINS. BOTTOM CONTACT SHARP.							
						51.1-52.5 SHALE							
						DARK GREY, FINE GRAINED, SOFT, NONCALCAREOUS. TRACE TAROSITE & LIMONITE ON FRACTURE SURFACES. LOWER CONTACT DIFFUSE, WEAK CONDUCTIVITY							
						52.5-55.1 CHERTY ARGILLITE							
						DARK GREY, FINEGRAINED, UNSCRATCHABLE & NON-CALCAREOUS. CALCITE VEINING IS WEAK TO MODERATE WITH INTENSITY INCREASING DOWN-HOLE. ANNABERGITE PRESENT ON FRACTURES AND TRACE HYDROBACITE NOTED IN A NARROW CALCITE DRELLIA FROM 55.0 TO 55.1m. NON-CONDUCTIVE							
						55.1-66.2 ARGILLACEOUS LIMESTONE							
						DARK GREY, FINEGRAINED, FINELY LAMINATED. MODERATELY TO STRONGLY CALCAREOUS. RARE TESTICULITES PRESENT. UNIT IS QUITE HARD BUT SCRATCHABLE & CALCITE VEINING IS INTENSE AT TOP & DECREASES TO MODERATE DOWN-HOLE. NON CONDUCTIVE.							

DRILL LOG

PAGE 1		OF 4		PROJECT REIN		HOLE 97-09					
DEPTH (M)	% CORE REC	% RQD	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY
					0-14.94 OVERBURDEN (CASED)						
5											
10											
14.94											
14.94-17.8	63	13			BLACK SHALE						
17.99					FINE GRAINED, SDTT, AND WEAKLY FISSILE, NON						
19.57	82	50			CALCAREOUS & VERY WEAKLY CONDUCTIVE TRACE						
20					LIMONITE ON FRACTURE SURFACES. BOTTOM CONTACT						
					DIFFUSE.						
22.56	97	30			17.8-19.5 CALCAREOUS ARGILLITE						
					DARK GREY WITH SLIGHTLY LIGHTER GREY SUBCIRCULAR						
	55	62			NOTES UNIT IS HARD BUT SCRATCHABLE, REACTION						
25	91	39			TO HCL IS MODERATE BUT LIGHTER NOTICES						
25.6					ARE SLIGHTLY MORE REACTIVE (POSSIBLE BIOTURB-						
					ATION?). TARCOSITE AND LIMONITE ARE TRACE						
28	88	14			ON FRACTURE SURFACES. CALCITE VEINING IS						
					TRACE. VERY WEAKLY CONDUCTIVE						
29.65					19.5-47.2 MEDIUM ARGILLITE						
30	87	7			DARK GREY, UNSCRATCHABLE, NON CALCAREOUS,						
31.7					LIMONITE AND TARCOSITE ARE COMMON FRACTURE						
					SURFACES AND TARCOSITE IS PRESENT IN SOME						
	89	69			CALCITE VEINS. PARTINGS ARE OBSERVED IN						
33.75					DEGS. EXTREMELY WEAK CONDUCTIVITY. PARTINGS						
35					CALCITE BEDDING ZONES FROM 28.5-28.6m & 31.4-31.7m						
	100	5			WHICH CONTAIN TRACE AMOUNTS OF GYPSUM						
37.8					19.5-47.2 MEDIUM ARGILLITE						
					TRACE AND LIMONITE/TARCOSITE ALSO BECOME						
40	101	0			TRACE UNTIL 29.3m. FROM 45.6m TO 45.9m						
40.84					OCCUPYING A MOTTLED CALCITE BEDDING STATE THAT						
					CONTAINS VERY MINOR GYPSUM AND ABUNDANT						
	89	19			LIMONITE. BELOW THIS ZONE FOR 30cm IS						
43.49					A ZONE OF BROWN COLORED THAT HAS TRACE						
					THROUGHOUT PURE AND ANHYDROUS.						
45					LOWER CONTACT SHARP & MARKED BY LARGE MOTTLED						
					VEIN						

PAGE 2 OF 4		PROJECT REIN				HOLE 07-09					
MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS					
		FROM	TO	WIDTH		Au ppb	Pt ppb	Pd ppb	Mo ppm	Ni ppm	Zn ppm
5											
10											
15		14.94	17.80	2.86	299798	2	25	2	26	182	1375
		17.80	19.50	1.70	99	22	25	22	4	85	796
20		19.50	21.50	2.00	299800	4	25	4	34	96	364
		21.50	22.56	1.06	299851	8	25	6	23	39	78
		22.56	24.67	2.11	52	12	25	10	21	35	80
25		24.67	27.00	2.33	299853	4	25	4	29	65	300
		27.0	28.0	1.0	299732	6	25	6	33	67	240
		28.0	29.0	1.0	299733	4	210	4	81	871	2420
30		29.0	30.0	1.0	299734	6	5	6	31	153	602
		30.0	31.0	1.0	299735	2	25	6	35	190	1650
		31.0	32.0	1.0	299736	2	25	8	29	84	296
		32.0	34.0	2.0	299737	2	25	4	30	115	556
35		34.0	36.0	2.0	299738	22	25	6	24	80	240
		36.0	38.0	2.0	299739	22	5	6	29	93	236
		38.0	40.0	2.0	299740	2	25	4	23	167	1260
40											
		40.0	42.0	2.0	299741	22	25	2	33	98	516
		42.0	44.0	2.0	299742	22	25	8	44	144	604
45		44.0	45.9	1.9	299743	22	25	4	37	348	5310
		45.9	46.2	0.3	299744	22	25	4	44	354	3250

PAGE 3 OF 4			PROJECT REIN		HOLE 97-09							
DEPTH (M)	% CORE REC	% RQD	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	
						CA	HA	SA	SO	SI		
46.94	98	17			47.2-53.04 CALCAREOUS SHALE							
						UPPER 40cm LAYERED, MODERATELY HARD WITH						
						MODERATE REACTION TO HCL, UNIFORMLY FINE GRAINED						
48.19	98	23				+ FINELY BEDDED, 3 LARGE CALCITE VEINS						
50						INCLUDED (UP TO 40cm WIDTH) + CONTAIN TRAC						
					SULFATE, ABUNDANT POLISHED SILICIFIED							
52.55					WEAKLY TO MODERATELY CONDUCTIVE, TRAC SULFATE							
53.04					IN ABOVE 40cm WIDE CALCITE VEIN							
55					PARTING PARALLEL TO BEDDING							

[illegible]

DRILL LOG

PAGE 1 OF 4			PROJECT REIN		HOLE 97-11						
DEPTH (M)	% CORE REC	% RQD	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY
						CL	CH	HA	SA	SO	
					0-3.05 OVERBURDEN (CASED), CASING LATER REAMED TO 6.1 m.						
4.98	82	0			3.05-22.2 CHERTY ARGILLITE						
					DARK GREY, DOMINANTLY FINE GRAINED WITH MINOR SILTY INTERBEDS. GENERALLY MASSIVE WITH FEW CALCITE VEINS. NON-CALCAREOUS & UNSCRATCHABLE. UBQUITOUS LIMONITE AND JAROSITE ON FRACTURE SURFACES. TRACE HYDRO-EKONITE IN NARROW, SUBPARALLEL QUARTZ VEIN @ 21.7m. LOWER CONTACT FAULTED.						
7.92	69	0	CH	AR	BEDDING @ 40°						
10.97	81	0			BEDDING @ 50°						
14.02	92	0			BEDDING @ 45°						
15	85	11			22.2-25.3 CALCAREOUS ARGILLITE						
17.03	6	0			DARK GREY AND FINE GRAINED WITH UP TO LOCALLY MODERATE CALCITE VEINING. GRAIN SIZE IS UNIFORM THROUGHOUT. WEAK LIMONITE & JAROSITE PRESENT ON FRACTURES. REACTION TO HCL IS MODERATE THROUGHOUT. PARTINGS PARALLEL TO BEDDING. LOWER CONTACT FAULTED BUT ORIENTATION INDETERMINATE DUE TO BLOCKY CORE						
20.12	94	2			BEDDING @ 70°						
23.16					LOWER CONTACT @ 70°						
25	76	4	CH	AR	25.3-42.9 INTERBEDDED BLACK SHALES AND SILTY LIMESTONES						
26.21	97	0	BL	SH/SLS	BEDDING @ 30°						
29.26	106	19			BEDDING @ 75°						
31.70	89	0			DOMINANTLY BLACK & FINE GRAINED WITH COMMON SILTY LIMESTONE BEDS UP TO 5cm THICKNESS. THE BLACK SHALES DO NOT REACT TO HCL BUT THE SILTY LIMESTONE BEDS REACT STRONGLY. CALCITE VEINING IS VERY WEAK & JAROSITE/LIMONITE ARE TRACE. THE BLACK SHALES ARE SOFT & EASILY INDENTED. THE LIMESTONES ARE VERY HARD AND DIFFICULT TO SCRATCH BY KNIFE. PARTINGS PARALLEL TO BEDDING & LOWER CONTACT SHARP BELOW CALCITE BRECCIA ZONE FROM 41.5 TO 43.9m						
35.36	100	3			BEDDING @ 50°						
39.40	96	0			42.9-53.6 BLACK SHALE						
40.20	93	6			FINE GRAINED, FINELY LAMINATED AND SOFT. NON-CALCAREOUS & CALCITE VEINS VERY RARE. TRACE LIMONITE/JAROSITE. VERY MINOR CALCITE BRECCIATIONS. NARROW INTERBEDS OF SILTY LIMESTONE FROM 53.2m TO 53.9m.						
41.45	70	26			CALCITE BRECCIA						
44.50	82	46			LOWER CONTACT @ 50°						

DRILL LOG

APPENDIX G

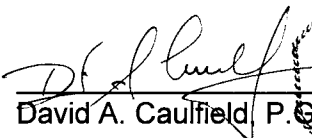
GEOLOGIST'S CERTIFICATE

GEOLOGIST'S CERTIFICATE

I, David A. Caulfield of 3142 Gambier Avenue, Coquitlam, in the Province of British Columbia, DO HEREBY CERTIFY:

1. THAT I am a Consulting Geologist with offices at Suite 207, 675 West Hastings Street, Vancouver, British Columbia.
2. THAT I am a graduate of the University of British Columbia with a Bachelor of Science degree in Geology.
3. THAT I am a Professional Geoscientist registered in good standing with the Association of Professional Engineers and Geoscientists of the Province of British Columbia.
4. THAT this report is based on property work I supervised during August and September, 1997, government publications and assessment reports filed with the Yukon Territory.

DATED at Vancouver, British Columbia, this 24th day of December, 1997.


David A. Caulfield, P. Geo.

