

GEOLOGICAL REPORT

describing the

HYLAND GOLD PROPERTY

including

2001 GEOCHEMICAL SURVEYS AND PROSPECTING

NTS 95D/5 and 12
Latitude 65°30'N and Longitude 127°52'W

in the

Watson Lake Mining District
Yukon Territory

Prepared by

Archer, Cathro & Associates (1981) Limited

for

HYLAND GOLD JOINT VENTURE

by

R. C. Carne, M.Sc., P. Geo.
February, 2002

094296



This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 31,900.00.

M. B. L.

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

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INTRODUCTION

The Hyland Gold property is owned by Hyland Gold Joint Venture (Cash Minerals Ltd. 55% interest, Expatriate Resources Ltd. 31% interest and Strategic Metals Ltd. 14% interest). The joint venture was formed in late 1999 by amalgamating the mineral claims of the three joint venture partners (or their predecessor companies) in the project area. All claims are owned 100% by the joint venture, subject only to a 1% net smelter return royalty on 88 claims formerly owned by Cash Minerals Ltd. (royalty payments are capped at \$1.5 million and are payable to Adrian Resources Ltd.).

The property lies near the southeast end of the Tintina Gold Belt that extends across central Alaska and Yukon. In recent years a number of lode deposits have been identified within the belt including: Pogo, Donlin Creek, Fort Knox, Brewery Creek, Dublin Gulch and Ketza (Figure 1). Although the deposits exhibit a wide variety of mineralization types, all are thought to be related to Mid to Late Cretaceous granitic intrusions. Gold mineralization can occur within these intrusions but it is more commonly hosted by adjacent or overlying wallrocks. Most of the deposits are within zones of low magnetic susceptibility and they exhibit a lithophile geochemical signature characterized by gold, arsenic, bismuth, and tungsten.

The 2001 Hyland Gold exploration program was funded by the joint venture and included prospecting and geochemical sampling as well as a post-season review of geochemical data for all of the claims now comprising the joint venture's property. Fieldwork was performed by a two person crew in September 2001 from a fly camp in at the old base campsite on Quartz Lake. All work was managed by Archer, Cathro & Associates (1981) Limited and supervised by the author. The Author's Statement of Qualifications is given in Appendix I while a list of personnel who worked on the project appear in Appendix II.



Tintina Gold Belt



Current or Former Mine



Major Prospect



Hyland Gold Property

HYLAND GOLD JOINT VENTURE

FIGURE 1

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TINTINA GOLD BELT HYLAND GOLD PROPERTY YUKON TERRITORY

DRAFTED/REVISED BY: AG/TCB

PROJECT: HGJV

FILE: HGtintina02.ai

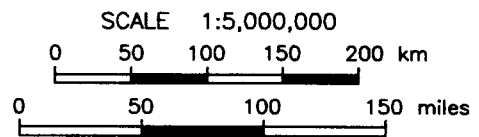
DATE: FEBRUARY, 2002

PROPERTY, LOCATION AND ACCESS

The Hyland Gold property lies across Quartz Lake in southeast Yukon at latitude 60°30'N and longitude 127°52'W on NTS map sheets 95D/5 and 12 (Figure 2). It is comprised of 373 mineral claims (Figure 3) registered with the Watson Lake Mining Recorder in the name of Archer, Cathro & Associates (1981) Limited which holds them in trust for the Hyland Gold Joint Venture. Claim registration data are listed below.

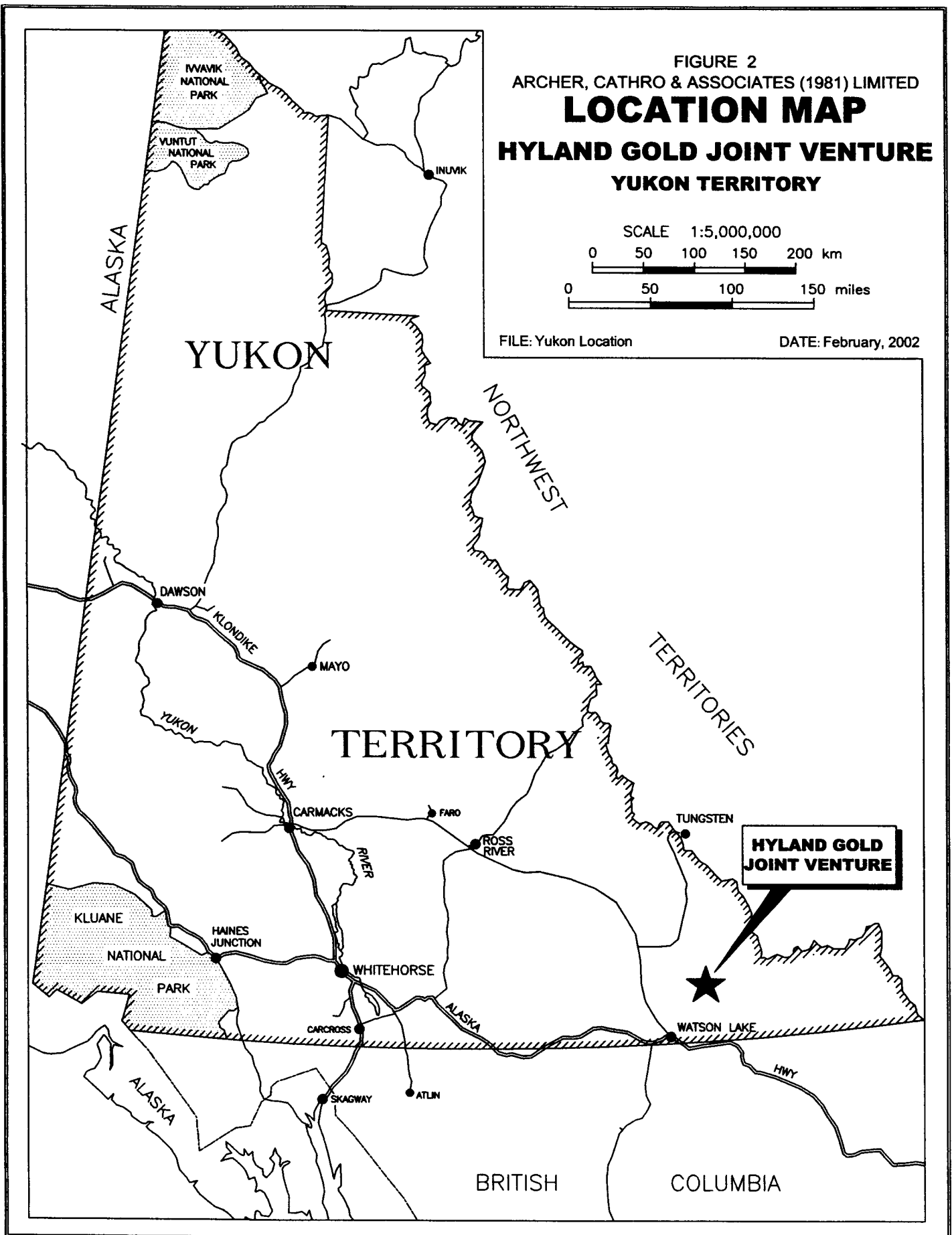
<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
CJ 13-24	YB55650-YB55661	February 27, 2002
41-52	YB55678-YB55689	February 27, 2002
69-80	YB55706-YB55717	February 27, 2002
141-154	YB56194-YB56207	February 27, 2002
HL 9-20	YB79493-YB79504	March 14, 2002
37-48	YB79521-YB79532	March 14, 2002
65-76	YB79549-YB79560	March 14, 2002
VER 9-20	YB49039-YB49050	February 27, 2002
33-44	YB49063-YB49074	February 27, 2002
57-68	YB49087-YB49098	February 27, 2002
77-90	YB49107-YB49120	February 27, 2002
95-102	YB49125-YB49132	February 27, 2002
103	YB49133	February 27, 2003
104	YB49134	February 27, 2002
105	YB49135	February 27, 2003
106-126	YB49136-YB49156	February 27, 2002
127-138	YB49157-YB49168	February 27, 2003
139-150	YB46169-YB49180	February 27, 2002
151-162	YB49181-YB49192	February 27, 2003
163-174	YB49193-YB49204	February 27, 2002
175-186	YB49205-YB49216	February 27, 2003
187-196	YB49217-YB49226	February 27, 2002
197-200	YB49227-YB49230	February 27, 2002
202	YB49232	February 27, 2002
209-220	YB49239-YB49250	February 27, 2002
227-236	YB49257-YB49266	February 27, 2002
239-243	YB49269-YB49273	February 27, 2002
245-252	YB49275-YB49282	February 27, 2002
Cuz 9-14	YA67489-YA67494	March 14, 2003
57	YA68994	March 14, 2003

FIGURE 2
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
LOCATION MAP
HYLAND GOLD JOINT VENTURE
YUKON TERRITORY



FILE: Yukon Location

DATE: February, 2002



<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Boar 1-11	YB14252-YB14262	March 11, 2003
12-16	YB14383-YB14387	March 11, 2003
17-28	YB15352-YB15363	March 11, 2003
Ham 1F-4F	YB14388-YB14391	March 11, 2003
5F-9F	YB14247-YB14251	March 11, 2003
10F-11F	YB14392-YB14393	March 11, 2003
Piglet 1-32	YA70902-YA70933	March 11, 2003
Quiver 1-2	YA68429-YA68430	March 11, 2003
11-12	YA68439-YA68440	March 11, 2003
21-24	YA68449-YA68452	March 11, 2003
25	YA68709	March 11, 2003
30	YA68714	March 11, 2003
32	YA68716	March 11, 2003
34	YA68718	March 11, 2003
Sow 1-5	YB00422-YB00426	March 11, 2003

*Expiry dates do not include 2001 assessment work filed for credit but not yet accepted.

In 2001 the property was accessed with a float-equipped Beaver aircraft operated by Northern Rockies Air Charter of Watson Lake, 70 km to the southwest. An all-terrain vehicle too large for the Beaver was slung between Watson Lake and the property by a Trans North Helicopters Bell 206B Jet Ranger helicopter. The area is also accessible by a 75 km winter road that extends from Quartz Lake south to the Alaska Highway.

HISTORY

The Quartz Lake area has been explored intermittently since the late 1800's when the McMillan zinc-lead-silver deposit was discovered. This polymetallic manto or replacement deposit lies about 5 km west of the Hyland Gold Main Zone. Drilling conducted intermittently by Liard River Mining Company Ltd. (Noranda, Asarco and New Jersey Zinc) since the late 1940's has defined a resource of 1.1 million tonnes grading 8.5% zinc, 4.1% lead and 62 g/t silver. Parts of the present Hyland Gold property were explored in the 1950's by Liard River Mining with geological mapping, hand trenching, soil sampling, geophysical surveys and a few drill holes but none of this work was directed toward gold mineralization.

In 1973 Hyland Joint Venture staked claims to cover a lead-zinc exploration target near what is now known as the Main Zone. This target consists of massive siderite-pyrite lenses replacing limestone. These contain some gold but they occur peripheral to silica flooding that hosts the gold showings. The joint venture completed geological mapping, prospecting and grid soil sampling in 1973, gravity surveys in 1974 and four diamond drill holes (303 m) in 1975. The results were generally discouraging for base metals but the work did outline widespread arsenic anomalies and a few high gold values. The joint venture had no interest in gold exploration and allowed the claims to expire in 1984 without additional work.

Exploration refocused on gold in 1981. Archer Cathro, working for Kidd Creek Mines, staked gold-arsenic anomalies south and east of the still valid Hyland JV claims as the Cuz and Quiver claims, respectively. Geological mapping and grid soil geochemistry conducted in 1982 defined a 450 m diameter area of strongly anomalous gold, arsenic and bismuth values on the Cuz property and widely scattered, weakly to moderately anomalous values on the Quiver claims. Follow-up prospecting and rock sampling was carried out by Kidd Creek in 1985 on the Cuz property but this work did not locate a specific source for the gold. Ownership of the Cuz and Quiver claims was later transferred to Archer Cathro and in 1994 Archer Cathro sold the Cuz property, which had been reduced to seven claims covering the main soil geochemical anomaly, to Nordac Resources Ltd. (now Strategic Metals Ltd.). Aside from a few hand pits dug in 1995 and limited prospecting in 1999, no significant work has been done on this property since 1985.

Most of the original Hyland JV claims expired in spring 1984 and the area was immediately restaked as the Piglet claims by Archer Cathro, which conducted grid soil sampling for gold later that year. The claims became the core of what was then termed the "Hyland Gold" property (this 88 claim property is now part of the present 373 claim Hyland Gold property). In 1986 Archer Cathro sold the Piglet and Quiver claims to Silverquest Resources Ltd. (later reorganized and renamed Cash Resources Ltd. and now Cash Minerals Ltd.), which performed prospecting, close spaced soil sampling and hand trenching that year. In 1987 Silverquest, Novamin Resources Ltd. and NDU Resources Ltd. formed a joint venture and explored the core property with additional grid soil geochemistry, road construction and bulldozer trenching. Novamin withdrew from the

joint venture in 1988 and was replaced by Adrian Resources Ltd. Work in 1988 included more soil sampling, geophysical surveys (ground magnetics, induced polarization and electromagnetic surveys), bulldozer trenching, road construction and 376 m of diamond drilling in four holes. In early winter 1989, a winter road was built to the property and in spring 1990, 3656 m of reverse circulation percussion drilling was completed in 41 holes.

Hemlo Gold Mines Inc. optioned the "Hyland Gold" property in 1994 and conducted geological mapping that year followed by three diamond drill holes totalling 439 m in 1995. The option expired without Hemlo Gold earning an interest. In spring 1998 NDU merged with United Keno Hill Mines and in fall 1998 Cash Resources purchased the former interests of NDU in the "Hyland Gold" property from United Keno Hill. Adrian Resources's interests in the property were purchased in fall 1999, giving Cash 100% ownership subject to a 1.0% NSR royalty payable to Adrian. The NSR royalty is extinguished once royalty payments total \$1,500,000.

In spring 1994 Westmin Resources Limited (now Boliden Westmin Limited) staked 262 claims surrounding the "Hyland Gold" and Cuz properties. That summer, airborne geophysical surveys were flown over the property and detailed mapping and soil sampling were done in two areas. An additional 154 claims were staked in the fall. In-fill soil sampling was done in summer 1995 and that fall Newmont Mining Corp. Canada Ltd. performed an airborne geophysical survey for Westmin over the property and surrounding area. In spring 1996, 84 more claims were added to the property. The 1996 exploration program included geological mapping, rock sampling, reconnaissance soil sampling and deep soil sampling using a portable power auger drill. Expatriate Resources Ltd. purchased Boliden Westmin's interest in the surrounding claims in spring 1999.

The present Hyland Gold property is an amalgamation of the respective interests of Cash Minerals Ltd., Strategic Minerals Ltd. and Expatriate Resources Ltd., which formed Hyland Gold Joint Venture (Cash Minerals Ltd. 55% interest, Expatriate Resources Ltd. 31% interest and Strategic Metals Ltd. 14% interest) in 1999 to manage the asset. All claims are owned 100% by the joint venture, subject only to a 1% net smelter return royalty on 88 claims formerly owned by Cash Minerals Ltd. (royalty payments are capped at \$1.5 million and are payable to Adrian Resources Ltd.). Hyland Gold Joint Venture carried out a limited prospecting, soil sampling and data compilation program on the amalgamated property holdings in 1999.

GEOMORPHOLOGY

The Hyland Gold property covers gentle to moderately rugged terrain with elevations ranging from 920 m along the shores of Quartz Lake to 1830 m on nearby mountain peaks. Treeline is at about 1450 m and vegetation consists of black spruce and deep moss on wet north facing slopes, thick tangles of alder and willow on wet south facing slopes and relatively open mixed pine and white spruce stands on dry hilltops and southwest facing slopes. Outcrop is moderately abundant above treeline but at lower elevations it is largely restricted to small cliffs, isolated knolls and deep stream cuts. Creeks in the area typically have moderate gradients.

The area was subjected to Pleistocene glaciation with local ice direction from the north or northwest as determined from scour marks and distribution of glacial deposits. Till has been eroded from most steep north facing slopes but south and west facing hillsides are mantled with variable thicknesses of glacial material. A prominent terrace of glaciofluvial material wraps around the hillsides at about 1065 m elevation in the northern half of the property, especially near Quartz Lake.

GEOPHYSICS

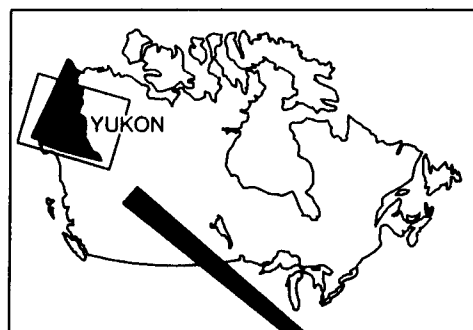
Magnetic, electromagnetic, induced polarization, resistivity, radiometric, chargeability and gravity surveys have been carried out over all or part of the Hyland Gold property. Results are described in detail in reports titled Gravity Survey at the Porker Property (Walcott, 1974), 1988 Hyland Gold Final Report (Dennett and Eaton, 1988) and The Hyland Project, Yukon Airborne Geophysical Survey (Barnett, 1995).

Magnetic data appears to provide the most useful information. Anomalously low aeromagnetic response is superimposed on general aeromagnetic trends that define two main structural directions, one trending northwest and one trending north-northeast. The Hyland Gold Main Zone lies within the best developed magnetic low that is also accompanied by a resistivity low (Barnett, 1995).

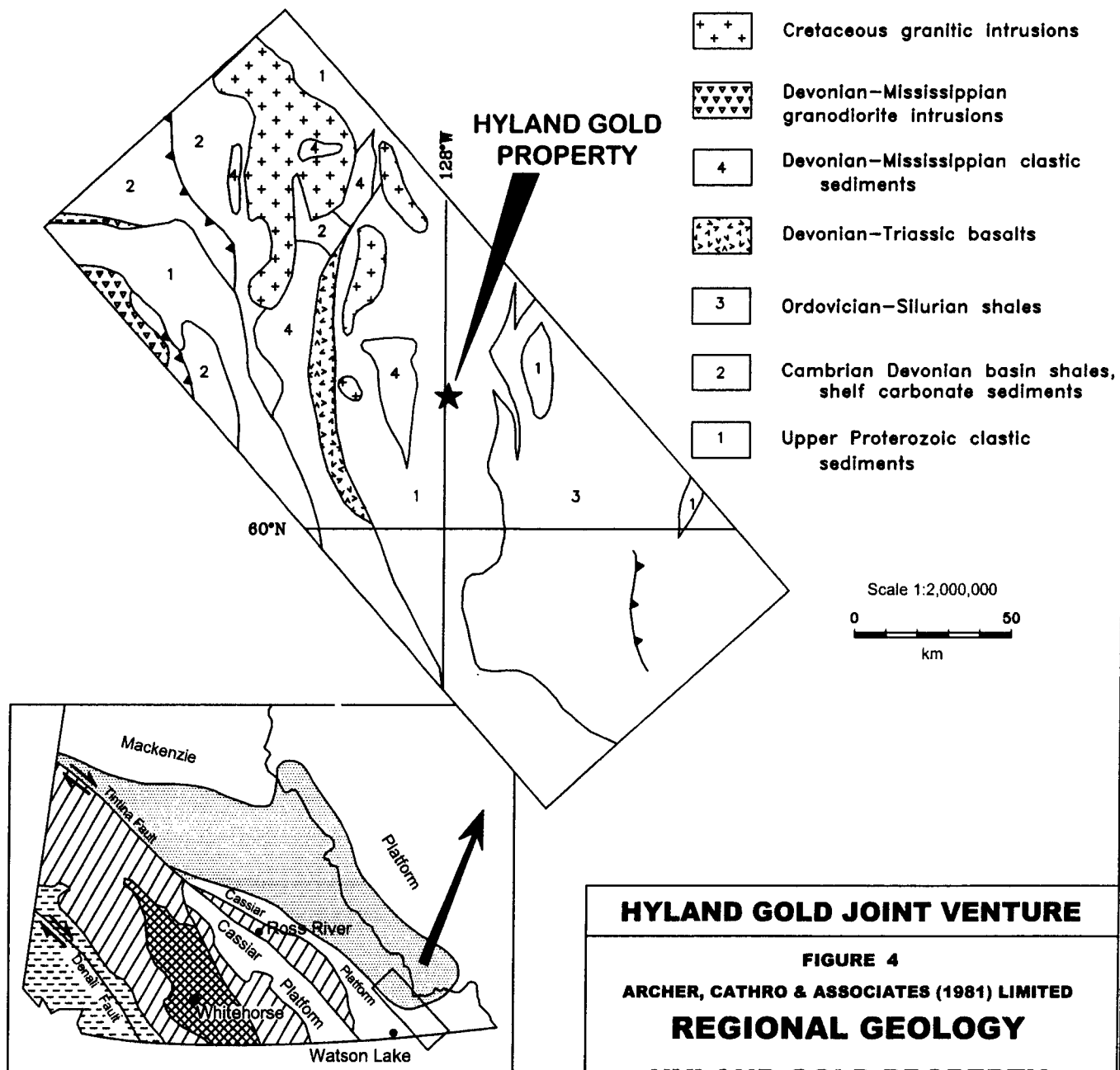
GEOLOGY

REGIONAL SETTING

The Hyland Gold project area is underlain by sedimentary strata that form the basement to the Selwyn Basin tectonic element, a Lower to Middle Paleozoic epicratonic trough (Figure 4). Country rocks are predominantly phyllite and quartzite with interbedded grit, quartz-feldspar pebble conglomerate and limestone. These rocks belong to the Hadrynian "Grit Unit" or the partially correlative Lower Cambrian "Phyllite Unit", both part of the Hyland Group. All of the rocks have undergone lower greenschist regional metamorphism.



-  Coast and Insular Belts
-  Intermontane Belt
-  Yukon-Tanana Terrane and Slide Mountain Terrane
-  Selwyn Basin



HYLAND GOLD JOINT VENTURE

FIGURE 4

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

REGIONAL GEOLOGY

HYLAND GOLD PROPERTY

FILE:

DATE: Feb. 2002

Although the area is located near the southern end of a belt of Cretaceous granitic plutons, there are no large intrusive bodies exposed on the claims. Evidence for buried intrusions includes a few narrow dykes, magnetic lows outlined by geophysical surveys and a 2 km² area east of Quartz Lake where sedimentary rocks are thermally metamorphosed to garnet-staurolite schist. The closest mapped granitic stock is 22 km west of the project area.

PROPERTY GEOLOGY AND MINERALIZATION

The Hyland Gold property is primarily underlain by six units comprising weakly metamorphosed limestone, phyllite, and quartzite as shown on Figure 5 and described below. A corresponding stratigraphic column is illustrated on Figure 6. Geological descriptions are primarily based on work done by Archer Cathro from 1982 to 2001 and by Hemlo Gold Mines in 1994 (Rehn, 1994).

Stratigraphy

Upper Quartzite

The Upper Quartzite Unit comprises grey and buff orthoquartzite interbedded with phyllitic siltstone and phyllite.

Upper Limestone

The Upper Limestone Unit is a dark shaly and gritty limestone that often has phyllitic partings. Occasional jasperoid, massive sulphides or siderite replacement bodies are seen toward the lower contact. A band of phyllite with interbedded quartzite also occurs in the lower part of this unit.

Upper Phyllite

This unit contains silver-grey, green and black phyllite with quartzite beds up to 5 m thick. Thin calcareous beds are also present.

Main Quartzite

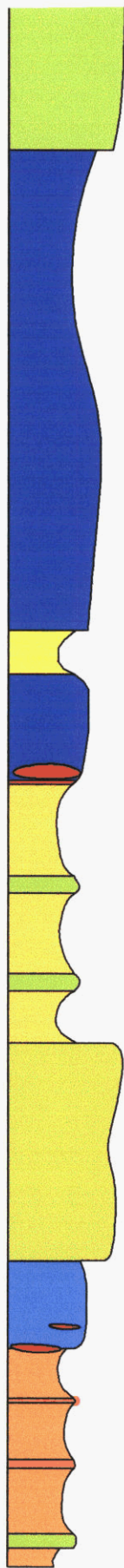
The Main Quartzite Unit is an orthoquartzite with minor lithic contamination. Toward the top of the unit phyllite partings up to 10 cm thick are common. This unit is at least 20 m thick.

Lower Limestone

This unit consists of platy, silty limestone commonly recrystallized with occasional jasperoid, massive sulphide or siderite replacement bodies along the lower contact. Calcite veining is common.

Lower Phyllite

This unit comprises interbedded silt and sand beds, quartz-feldspar grit and quartz-feldspar conglomerate. Locally calcareous beds have been replaced by jasperoid containing disseminated pyrite and arsenopyrite. The Lower Phyllite unit hosts most of the gold mineralization in the Main Zone. In the vicinity of the Main Zone the beds have



Upper Quartzite, grey and buff orthoquartzite interbedded with phyllitic siltstone and phyllite.

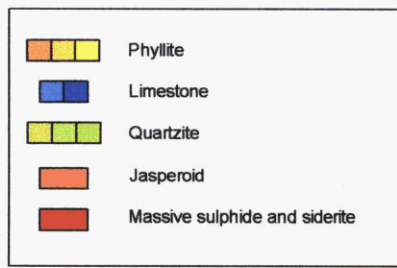
Upper Limestone, shaly and gritty limestone that often has phyllitic partings. Occasional jasperoid, massive sulphides or siderite replacement bodies are seen toward the lower contact. A band of phyllite with interbedded quartzite also occurs in the lower part of this unit.

Upper Phyllite, silvery grey to green phyllite with quartzite beds up to 5 metres thick. This unit thickens to the east.

Main Quartzite, orthoquartzite with minor lithic contamination.

Lower Limestone, platy silty limestone which is commonly recrystallized with occasional jasperoid replacement or massive sulphide and siderite along the lower contact.

Lower Phyllite with interbedded silt and sand beds. Locally calcareous beds have been replaced by jasperoid containing disseminated pyrite and arsenopyrite.



HYLAND GOLD JOINT VENTURE

FIGURE 86

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

STRATIGRAPHIC COLUMN

HYLAND GOLD PROPERTY

DRAWN/REVISED BY: TCB/RCC

PROJECT: HGJV

FILE: HGstratcol02.dwg

DATE: FEBRUARY, 2002

been deformed into a series of north trending, upright folds. Structural data elsewhere on the property is limited and similar folds, if present, have not yet been identified.

Structural Geology

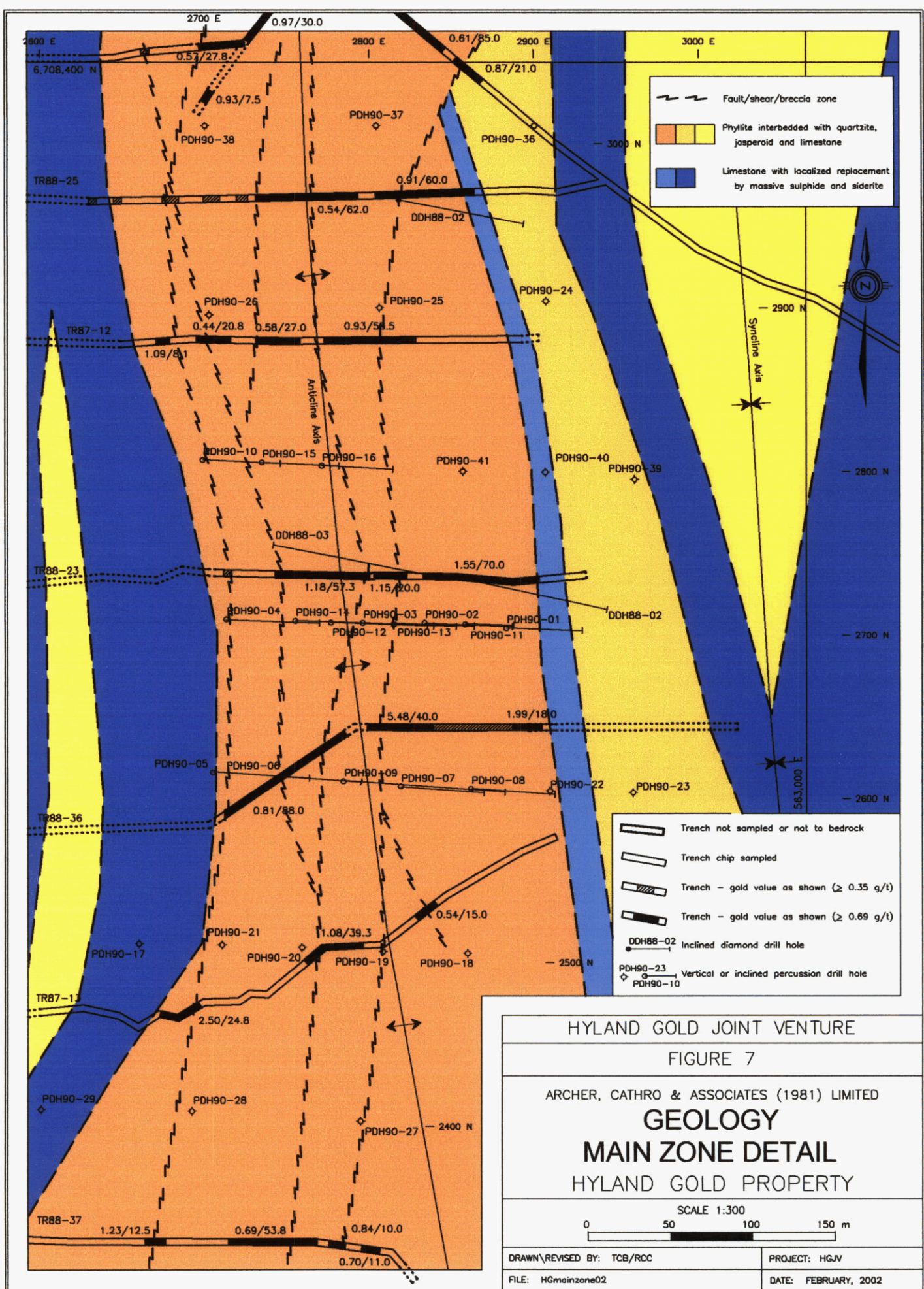
The most prominent structural feature in the project area is a north trending topographic linear that probably corresponds to a steeply dipping regional scale fault zone (Figure 5). The linear is usually filled by till or talus but where bedrock is exposed in a number of trenches in the Main Zone, it consists of a series of subparallel faults. Sense of motion on the faults is unknown but local stratigraphy appears to be little affected. The linear bisects the Main Zone and strikes into the Cuz Anomaly before being offset about 500 m to the east by a cross fault. It also coincided with resistivity and magnetic lows in the vicinity of the Main Zone and a second magnetic low about 8 km to the south.

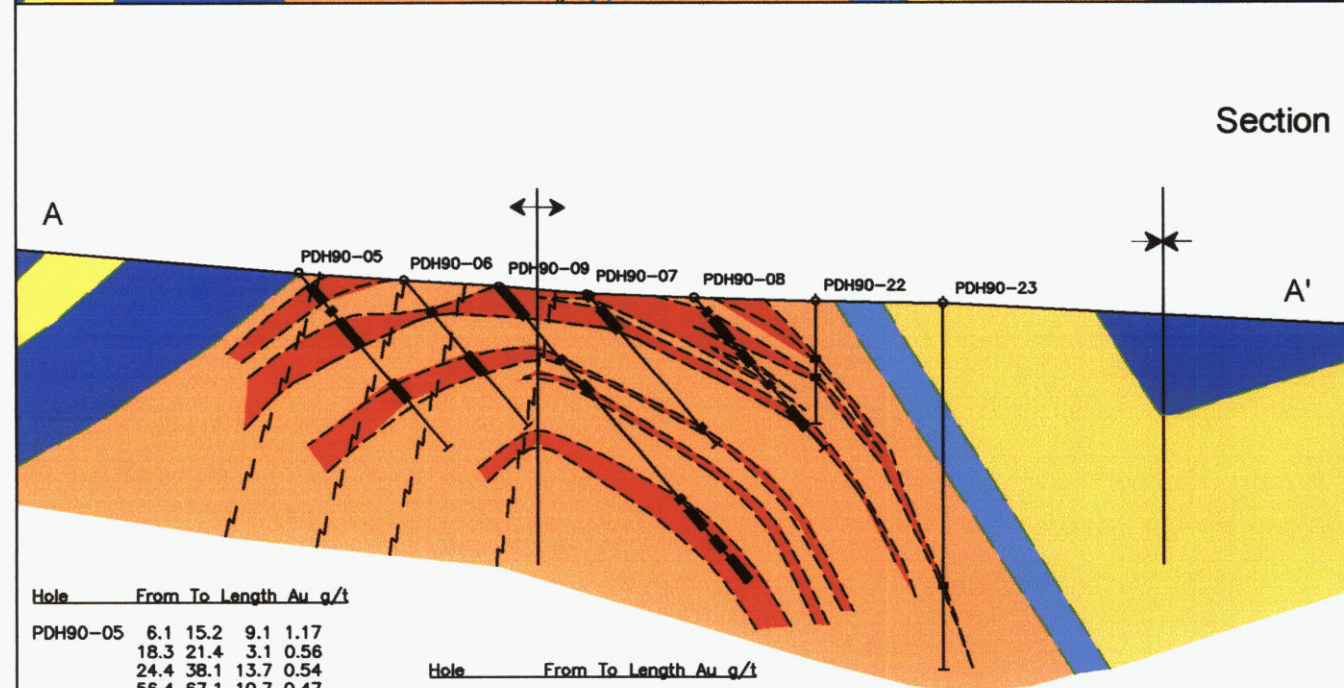
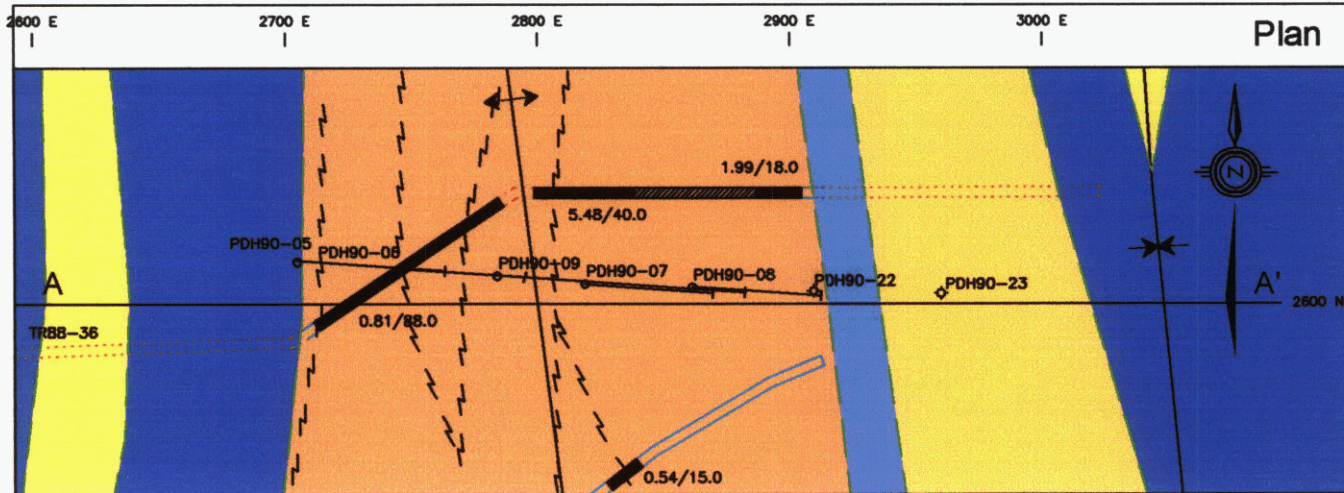
Main Zone Mineralization

The Main Zone trends south across a low, heavily vegetated ridge on the south side of Quartz Lake (Photo 1). Strata in the area consist of interbedded phyllites, limestones and quartzites that are deformed by a series of low amplitude folds and high angle faults. Silicification, pyritization and quartz veins are common in most units but are best developed in jasperoid altered horizons in the Lower Phyllite unit. Massive sulphide (pyrite with lesser arsenopyrite) and siderite replacement occurs in several lenses along the base of limestone units.

Gold mineralization occurs within the core of an open and upright anticline. A series of high angle faults with small apparent offset approximately coincides with the fold axis. The best gold values are associated with jasperoid horizons in the Lower Phyllite unit (Figure 6) or within strongly fractured and brecciated zones developed along the faults. Preglacial weathering and consequent oxidation of sulphide minerals extends to depths of 60 m on the hilltop. Glaciation has removed most of the oxide facies at lower elevations where pyrite and arsenopyrite are present. The best assays (>5.0 g/t gold) in the oxide zone are returned from vein samples containing scorodite stained, grey quartz veins with abundant pits after sulphide minerals. These occur within relatively narrow, north trending shear or crush zones. Moderately mineralized intervals grading 1.0 to 5.0 g/t gold occur within brecciated jasperoid zones adjacent to higher grade vein/shear zone mineralization. The jasperoid horizons are surrounded by sericite-clay altered rocks, which typically carry gold grades between 0.3 and 1.0 g/t. Massive sulphide and siderite replacement mineralization also typically contains 0.3 to 1.0 g/t gold (Dennett and Eaton, 1988).

Although the drill holes in the Main Zone are too widely spaced for definite correlation of mineralized intersections, it appears that the best mineralization occurs in 3 to 20 m thick, stratabound zones that may be linked by irregular, steeply dipping breccia bodies (Figures 7 and 8). Initially it was felt that the alteration and gold mineralization were localized by the high angle fault structures along the anticlinal axis but Hemlo Gold's deeper drilling west of the Main Zone shows that it persists away from these structures





Hole From To Length Au g/t

Hole	From	To	Length	Au g/t
PDH90-05	6.1	15.2	9.1	1.17
	18.3	21.4	3.1	0.56
	24.4	38.1	13.7	0.54
	56.4	67.1	10.7	0.47

Hole	From	To	Length	Au g/t
PDH90-06	15.2	18.3	3.1	2.03
	38.1	48.8	10.7	0.45

Hole	From	To	Length	Au g/t
PDH90-07	0.0	3.0	3.0	0.84
	7.6	19.8	12.2	1.75
	68.6	71.6	3.0	0.70

Hole	From	To	Length	Au g/t
PDH90-08	6.1	9.1	3.0	0.37
	10.7	22.9	12.2	1.33
	27.4	35.0	7.6	0.72
	44.2	47.2	3.0	0.61
57.9	68.6	10.7	0.40	

Hole From To Length Au g/t

Hole	From	To	Length	Au g/t	
PDH90-09	0.0	16.7	16.7	2.65	
	incl.	9.1	12.2	3.1	6.62
		36.6	39.6	3.0	0.60
		50.3	56.4	6.1	0.58
		109.7	112.8	3.1	0.70
		115.8	126.5	10.7	0.75
	131.0	137.1	7.1	1.46	
	140.2	152.9	12.7	1.63	

Hole	From	To	Length	Au g/t
PDH90-23	111.3	114.3	3.0	0.86

Hole	From	To	Length	Au g/t
PDH90-24	21.4	30.5	9.1	1.68
	54.8	70.1	15.3	0.91

Phyllite interbedded with quartzite, jasperoid and limestone

Limestone with localized replacement by massive sulphides and siderite

Trench not sampled or not to bedrock

Trench chip sampled

Trench with gold value ≥ 0.35 g/t

Trench with gold value ≥ 0.69 g/t

Inclined diamond drill hole

Vertical or inclined percussion drill hole

Drill hole with gold value ≥ 0.35 g/t

HYLAND GOLD JOINT VENTURE

FIGURE 8

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

DRILL SECTION 2600N

MAIN ZONE DETAIL

HYLAND GOLD PROPERTY

SCALE 1:300

0 50 100 150 m

DRAWN/REVISED BY: TCB/RCC

PROJECT:

FILE: HG2600N02

DATE: FEBRUARY, 2002

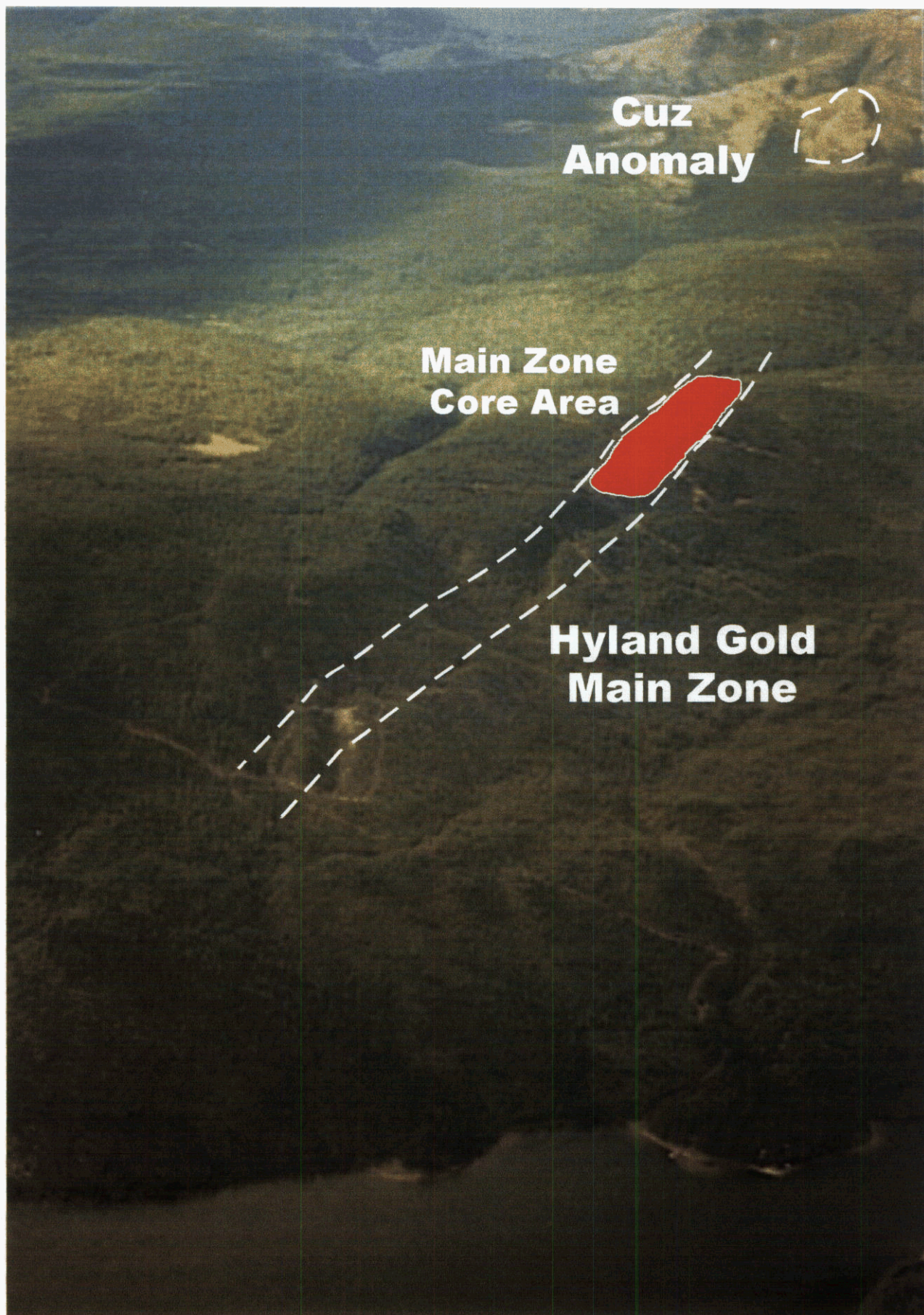


Photo 1: View of Hyland Gold property facing south

into areas where the favourable host units do not outcrop (Bidwell, 1995). Based solely on percussion drill results, the oxidized core of the Main Zone is estimated to contain a resource of about 3.2 million tonnes grading 1.1 g/t gold that is available to open pit mining with a stripping ratio of about 1:1 (Sax and Carne, 1990). Recovery from diamond and percussion drilling was poor, especially within the higher grade vein/shear zones where the rock is too incompetent to allow the hammer to work. The same percussion drill was used to test oxidized material at the Brown-McDade Deposit at the Nansen Mine, some 550 km to the west, with similar recovery problems. When this deposit was mined, gold grades were approximately double the percussion drill indicated grade (M. Slack, 1999, personal communication). Trench results from the Main Zone at Hyland Gold support this possibility, indicating potential for a substantially larger tonnage of higher grade material. Preliminary metallurgical testing indicated excellent leachability with low cyanide and lime consumption.

The oxide mineralization grades to sulphide facies at depth and at lower elevations along strike in both directions. Potential of the sulphide facies has not been properly drill tested. No deep drilling has been done and the zone is open in all directions laterally. ICP analyses of percussion drill cuttings show that oxide and sulphide facies samples are enriched in tungsten, antimony and lead and that some gold bearing sulphide facies mineralization is also enriched in copper and silver (up to 0.7% and 196 g/t, respectively). Variations in metal ratios suggest large scale mineral zoning may occur within chemically reactive units. It is possible the replacement style mineralization at the Main Zone is part of a large system that also includes the McMillan Deposit replacement or manto style mineralization (Figure 9).

Several features of the Main Zone are worth emphasizing when evaluating results from elsewhere in the area. The gold mineralization lies along and adjacent to, a prominent north trending topographic linear. The best values are accompanied by highly anomalous values of arsenic and bismuth and they are associated with resistant zones, several tens of metres wide, of silicified but relatively unfractured rock with weakly anomalous gold values but with moderately to strongly anomalous bismuth and arsenic values. These are in turn flanked by less silicified zones, which carry weakly to moderately anomalous arsenic values. Oxidation extends much deeper in the highly fragmented gold rich zone than it does in the less fractured weakly mineralized wallrocks.

Potential of the Main Zone has only been partially tested. Previous work focussed almost exclusively on near surface oxide facies mineralization in an area of relatively good exposure. Recovery problems encountered during diamond and percussion drilling may have understated potential, particularly in the oxide zone, and have frustrated attempts to understand geological controls. The fragmented land position prior to property amalgamation meant that little exploration was done along strike to the north or south.

Cuz Anomaly

Structure and stratigraphy in the vicinity of the Cuz Anomaly are not well established because outcrop is sparse and no detailed mapping has been done. The main rock types

Figure 9
 Archer, Cathro & Associates (1981) Limited
Schematic Section
Quartz Lake Area
 Hyland Gold Joint Venture
 Yukon Territory

FILE: Schematic Section

DATE: February, 2002

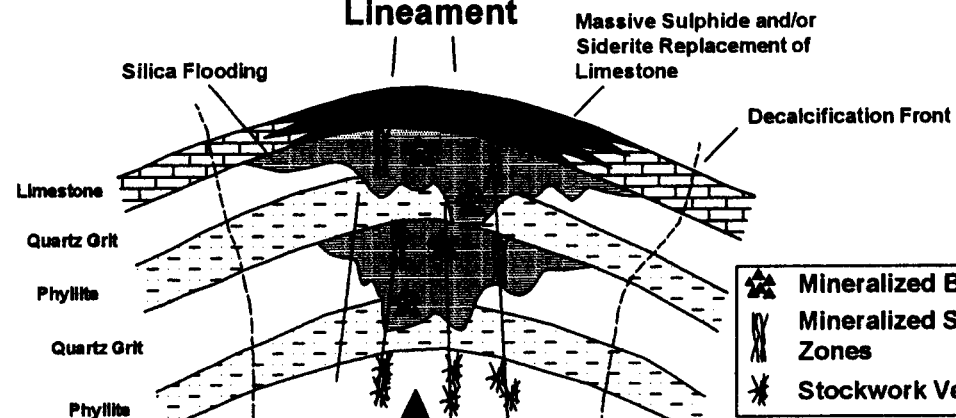
West

Quartz Lake
 Lineament

East

Hyland Gold
 Section

Macmillan
 Pb-Zn-Ag Manto



- ★ Mineralized Breccias
- ~ Mineralized Shear Zones
- * Stockwork Veins

Quartz Grit
 Limestone/Phyllite
 Quartz Grit

Formational
 Waters

Thrust Fault

Formational
 Waters

Metamorphic and
 Magmatic Fluids

W(Mo)-Cu-Pb-Zn(Au)
 Skarn

Hornfels

Buried
 mid-Cretaceous
 Pluton

are medium to coarse grained quartzite and pebble conglomerate, fine grained quartzite, calcareous fine grained quartzite, phyllite, siltstone, massive limestone, and thin bedded limestone that are tentatively assigned to the Upper Quartzite unit. A 450 m diameter recessive zone on a north-northwest facing slope (Photo 1) coincides with the soil geochemical anomaly. No outcrop occurs within this zone and bedrock is blanketed by coarse blocky talus derived from a resistant weathering unit at the top of the relatively steep slope. This material, which contains abundant boxwork and scorodite staining after arsenopyrite, was extensively chip sampled by Kidd Creek Mines in 1985. Gold grades of this material are weakly to moderately anomalous but they do not explain the strength of the gold soil geochemical anomaly on the lower slopes of the hillside. Talus fines beneath the coarse material derived from the resistant zone upslope show advanced clay, sericite and silica alteration with close spaced penetrative cleavage, often accompanied by quartz veining.

Talus fines from the recessive zone contain two types of gold bearing material: limonitic quartz vein float with grains of encapsulated arsenopyrite, which assayed up to 9 g/t gold (Archer and Carne, 1982); and, sheared, bleached clastic sediments showing strong silicification and limonite in pits after sulphides, which assayed up to 3.7 g/t gold (Carne, 1996).

A brief geological reconnaissance was carried out in 2001 over the Cuz Anomaly to evaluate the source of the mineralized talus fines. Previous investigations had operated under the assumption that north-south fault and shear zones were the structures that controlled and localized higher grade gold mineralization, similar to the Main Zone, some 3.5 km to the north. It is important to note in this context that the prominent structural linear that hosts the Main Zone passes just east of the Cuz Anomaly, where it is apparently offset to the east about 700 m (Figure 13). A logical explanation for this is that the Cuz Anomaly mineralization is in fact hosted by east-west trending structures, rather than north-south. The resistant, silicified and arsenic rich rock that lies uphill and just south of the Cuz Anomaly is probably analogous to similar material that flanks the recessive Main Zone mineralization.

The prime exploration target in this area is an oxidized zone beneath talus cover in the recessive area. No drilling or mechanized trenching has been done to evaluate this potential. Rocks hosting the Cuz Anomaly are believed to be part of the same sequence that hosts the Main Zone but could lie higher in the section and, if so, the Cuz Anomaly could also represent leakage from a deeper system. Depth of oxidation in the Main Zone appears to be related to preglacial topography.

PROPERTY GEOCHEMISTRY

General

Numerous programs of silt and soil sampling have been conducted on and around the Hyland Gold property. Figure 10 shows the location of all soil and rock samples taken during the 1999 and 2001 field seasons. A compilation of previous soil and silt sampling on the project area was completed in the spring of 2000. This included sampling done in 1982 by Archer Cathro for Kidd Creek, 1986 by Archer Cathro for Silverquest, 1988 by Archer Cathro for Adrian, NDU and Silverquest and 1994 to 1996 by Westmin. Results are plotted at 1:30,000 and 1:10,000 scale for gold and arsenic on Figures 11 to 14. While 25 ppb gold is usually considered to be anomalous on properties within the Tintina Gold Belt, results from the Hyland Gold property were uncommonly strong for gold and were contoured using an anomalous threshold of 50 ppb.

Continuous rock chip samples were taken from hand trenches excavated across a series of low cliffs that form the north bank of a drainage cutting across the south end of the Main Zone. The trenches are located on Figures 13 and 14 while results of the rock sample analyses are documented in detail on Figure 15.

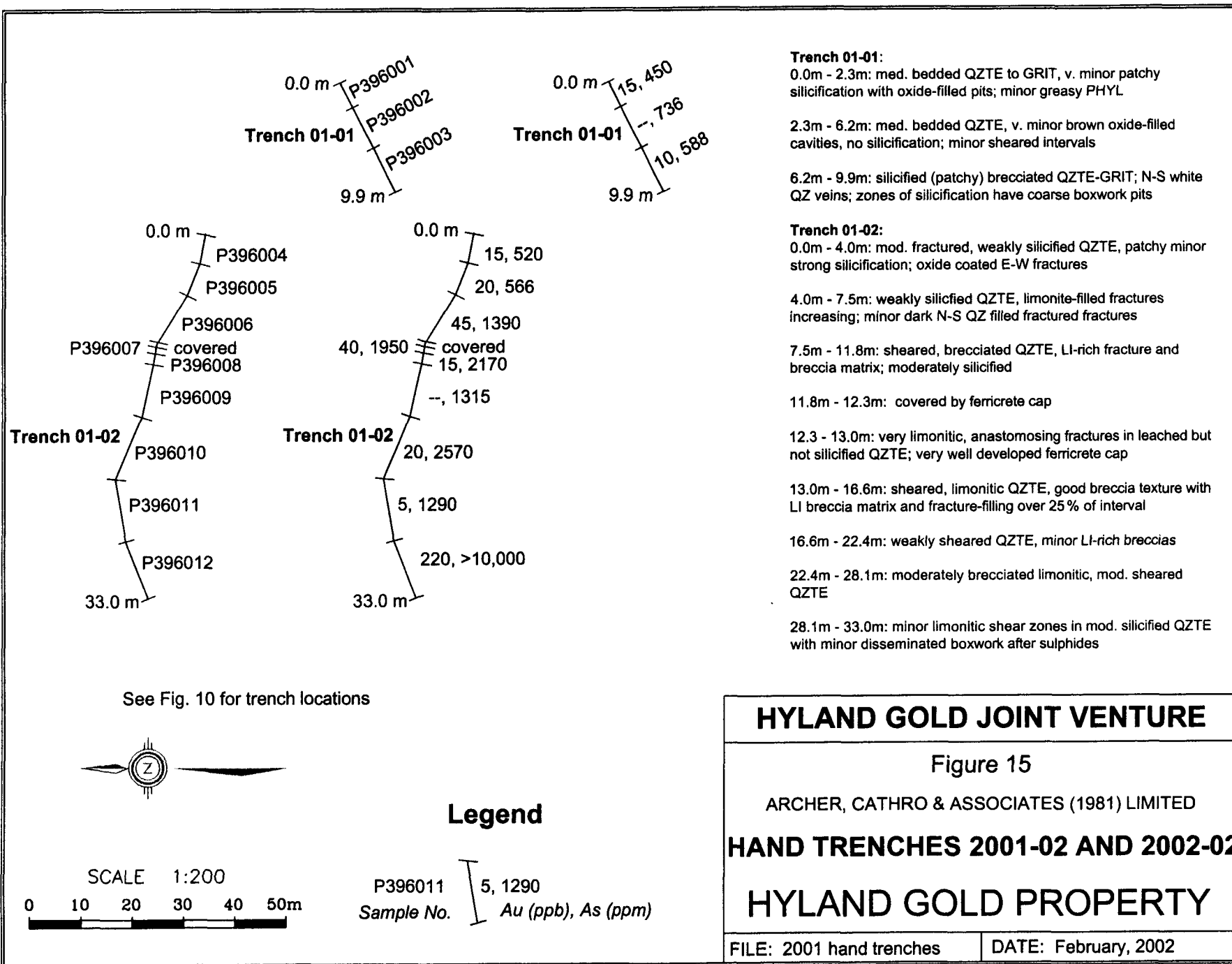
All analyses from 1986 to 2001 were performed by Chemex Labs Ltd., North Vancouver, B.C.

Results

The pre-1999 geochemical surveys defined two areas of strongly anomalous gold values referred to as the Main Zone and the Cuz Anomaly. The Main Zone comprises a 2.2 km long, northerly trending zone of moderately to strongly anomalous gold values with coincident arsenic and bismuth response. Peak values of 1950 ppb gold, >1% arsenic and 540 ppm bismuth were returned from this area. These soil anomalies lie along and adjacent to the prominent north trending topographic linear.

The Cuz Anomaly is a roughly circular, 275 m diameter area of anomalous gold response with most samples exceeding 100 ppb to a maximum of 1940 ppb. Arsenic results from soils range up to 4600 ppm and, similar to the Main Zone, they outline an anomalous area considerably larger than the area of high gold. Bismuth values from soils range up to 345 ppm.

In addition to the Main Zone and Cuz Anomaly, several smaller geochemical anomalies have been discovered although the geochemical sampling density outside the two main areas of exploration is not sufficiently high enough to absolutely determine whether or not other zones of potential economic interest may exist. The 1999 geochemical surveys were designed to evaluate unsampled or poorly sampled areas of the property. The 2001 exploration was designed both as a continuation and a follow up of this earlier work



Soil sampling and prospecting in 2001 was carried out in a number of widespread areas across the property. Results of this work are discussed below from north to south and documented for gold on Figures 11 and 13, and for arsenic on Figures 12 and 14. Multi-element geochemical data is given in the relevant Certificates of Analysis in Appendix III. These data are keyed to the gold and arsenic data by way of the sample location map (Figure 10).

- A strong north-south recessive linear passes about 1 km east of the Cuz Anomaly. Approximately 3 km south-southeast of the latter, the structure was tested with soil sampling in two short soil sample lines about 400 m apart. Samples were taken at 10 m intervals. Gold and arsenic values vary up to 20 ppb and 88 ppm, respectively. Both are within normally expected background populations.
- Historical sampling in an area several hundred metres southeast of the Cuz Anomaly had outlined several nearby geochemical anomalies associated with the south end of the prominent linear structure that passes through the Main Zone. Coincident peak values of 279 ppb gold and 1890 ppm arsenic were received from analyses of soil samples taken either within or downslope of the linear. A single line of four soil samples at 10 m spacing was taken from a saddle upslope of the apparent location of one of the old anomalous soil samples. Results of trace to 15 ppb gold and 22 to 60 ppm arsenic are within the expected background population variation.

A 1.2 m deep, 3 m long hand trench was excavated about 50 m north of, and downslope of, the soil line described above. Bedrock was not intersected. Two continuous talus fine samples were taken from the length of the trench floor. Analyses of these samples returned only background values of gold and arsenic. Similarly, six rock grab samples taken randomly from the trench walls did not return anomalous values of gold and arsenic. A sample of rusty, fractured quartzite with a strongly developed limonitic stockwork was collected from a recessive zone about 140 m east of the hand trench. Although arsenic response was slightly anomalous at 694 ppm, gold content was only 5 ppb.

- A mini-grid of 11 soil samples was collected 2 km east of the Cuz Anomaly around the location of a piece of glacial float collected in 1999 that contained >10,000 ppm arsenic and 5520 ppb gold. No anomalous gold or pathfinder element values were returned from analyses of the 2001 samples and no other similar mineralized float specimens were seen while prospecting the area in 2001.

A specimen of rusty, silicified quartzite breccia was recovered from a drift-covered recessive notch on a low ridge crest 300 m west of the former area. Moderately anomalous values of 455 ppb gold and 372 ppm arsenic as well as a strongly anomalous bismuth content of 582 ppm from the grab sample warrant further follow-up prospecting. Slightly anomalous rock and soil samples were also collected from past programs in this vicinity although the present sample

density is too widespread to determine if an economically significant target is present.

- Sixty-four soil samples were collected from a wet, heavily vegetated north-facing slope along the south side of the major valley that lies at the south end of the Main Zone as it is presently defined. The grid samples were taken at 50 m by 100 m intervals across the north-south trend of the Main Zone mineralization. Arsenic values peak at 1150 ppm. Gold and bismuth values that reach moderately anomalous maximum values of 65 ppb and 12 ppm, respectively, are coincident with the best arsenic response.

Previous to the 2001 exploration, there was no satisfactory explanation as to the apparent termination of the Main Zone mineralized trend, as to structural or stratigraphic control. Geological mapping in 2001 of isolated outcrops and soliflucted float material near the top of the south valley side (approximately half the distance between the second and third soil sample lines) revealed that underlying bedrock is thin bedded, silty limestone of the Lower Limestone unit. This is the sequence that caps the Main Zone mineralization across the valley to the north. The relatively flat dipping limestone unit was also observed to underlie the low ridge that extends south from this area to the Cuz Anomaly, which is associated with potential gold mineralization higher in the stratigraphic section. This observation explains the apparent southern termination of the Main Zone. Extensive exploration carried out in the past in the latter area has shown that the Lower Limestone unit probably acted as a dam to ascending fluids. Thus, there is geochemical evidence that gold mineralization similar to the Main Zone may extend south from the presently defined bounds, across the creek valley and possibly, underneath a barren limestone cap, as far south as the Cuz Anomaly. Isolated gold and arsenic soil geochemical anomalies east of this trend may reflect leakage from such a hydrothermal system.

- A series of low bluffs forming a rim along the north side of the creek valley that bounds the south end of the Main Zone were exposed by hand trenching and evaluated by continuous rock chip sampling (Figure 15). Although arsenic values were all above 450 ppm across the approximately 100 m wide area, and thus moderately to strongly anomalous, gold values were generally low. The best gold value was returned from the westernmost sample interval, one of 220 ppb with >10,000 ppm arsenic over a width of 4.9 m. Bedrock consisted of moderately silicified quartzite with minor limonitic shear zones and disseminated boxwork after sulphides. The rocks sampled lie just east of the Main Zone trend and the fact that the last, or westernmost sample taken, is the one with the best values bodes well for extending the area of Main Zone gold mineralization southward into this area.

Relatively abundant banded limonite float is exposed in a bulldozer road cut about 100 m northwest of the chip sampled hand trenches (Figure 10). A randomly selected grab specimen of this material (sample P396012) returned values of

220 ppb gold, >10,000 ppm arsenic, 34 ppm bismuth, 1875 ppm copper, 34 ppm antimony and 40 ppm tungsten (Appendix III). All other elements reported on the 32 element analysis were below the anomalous threshold. This may represent highly oxidized massive sulphide vein or replacement (manto) style mineralization, similar to that seen at depth below the north end of the Main Zone.

- Bulldozer trenches across the Main Zone were resurveyed and 50 cm wood pickets marked with permanent aluminum tags were placed at 25 m intervals. A review of every significant assay interval was conducted in the field although this work was hampered by slumping of the trench walls and other effects of the passage of 13 years since the trenches were excavated. Unfortunately, fiscal constraints on the 2001 program did not allow for a more systematic approach of cleaning out the old trenches to remap and resample them. Nonetheless, a few important observations on the general nature of the Main Zone gold mineralization were made that serve to put the early exploration results in a proper context.
 - Oxidized siderite altered limestone was previously observed along the flanks of the Main Zone in both trenches and drill hole cuttings. This was interpreted as erosional remnants of an alteration cap that is now only preserved along the sides of an antiformal dome. A cursory inspection of the trenches in 2001 revealed that siderite zones of float and subcrop are much more common within the area of the Main Zone than was previously observed. This suggests that, although the structural model of an antiformal dome host to the Main Zone still has credence, there has probably been significant modification of the structure by extensional normal faulting which has down-dropped blocks of the overlying altered limestone. This observation serves to explain, in part, the apparently erratic nature of the Main Zone mineralization.
 - Some of the best bulldozer trench gold values were associated with relatively narrow, north-south trending recessive zones. This type of target is very difficult to properly expose with bulldozer trenching oriented at right angles in an east-west direction. Adding to this difficulty is a tendency of the areas marginal to mineralization to be underlain with relatively resistant silicified zones as much as 10 to 30 m across. This greenish grey jasperoid alteration contains numerous pits after pyrite and arsenopyrite although gold grades are generally less than 1 g/t. In permafrost terrain rubble of resistant rock is commonly drawn downhill into such recessive zones by solifluction. Frozen rubble, especially when it is of one homogeneous rock type, is very difficult to tell from bedrock in the floor of a bulldozer trench. In a few trenches, recessive bedrock was adequately exposed by the bulldozer trenching. In these areas, the recessive material was sheared, clay altered country rock that is impregnated with crushed and broken dark quartz vein material. Gold grades of these recessive zones are inevitably higher than the surrounding

jasperoid altered haloes. It is evident from the small amount of hand excavation carried out in 2001 that a number of recessive zones were not fully exposed by the 1986-87 bulldozer trenching. Material mistakenly sampled as bedrock in these setting was actually soliflucted infill derived from the surrounding weakly mineralized jasperoid altered haloes and consequently, gold grade was probably understated. Furthermore, the soft, clay altered and crushed nature of the linear, recessive zones severely limited the effectiveness of the diamond drill and rotary percussion drill sampling that was attempted in the past.

The end result of these observations is two-fold. The strong structural control of higher grade (>1 g/t gold) mineralization was not at first recognized and therefore the economic potential of the property as a whole has been understated as a result.

- A short time was spent prospecting along the lakeshore east of the camp area to follow up reports of mineralized float dating back 20 years. Two pieces of rusty quartz vein material were recovered but gold grades were low (<5 ppb and 15 ppb) although corresponding arsenic values of 286 ppm and 464 ppm are weakly anomalous. All other metal contents reported on the 32 element ICP analysis are below the anomalous threshold.
- Twenty-two soil samples were taken along two lines at 50 m spacing about 1.5 km north of Quartz Lake. The sampling was carried out to evaluate an area in which 1999 sampling had returned two anomalous gold values of 75 and 120 ppb. Arsenic and other pathfinder contents were within expected background variation. The 2001 samples did not return anomalous values for any of the 32 elements tested.

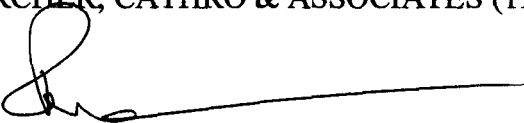
CONCLUSIONS AND RECOMMENDATIONS

The mineralized system on the Hyland Gold property is large and exhibits many of the geological, geochemical and geophysical characteristics observed in deposits elsewhere in the Tintina Gold Belt. Previous work has focussed on the best exposed parts of the system, partially delineating a significant gold zone in oxidized material. Exploration to date has also identified other untested geochemical and geophysical anomalies along and adjacent to a 15 km long topographic linear which extends the length of the property.

Future work should include excavator trenching in the Main Zone to more accurately establish the grade and distribution of gold in higher grade recessive shear zones that have not been adequately tested by bulldozer trenching and percussion drill programs in the past. Similarly, excavator trenching should be carried out within the Cuz Anomaly to determine the source of the gold. Detailed soil sampling should also be continued at the south end of the Main Zone soil sample grid to complete the geochemical coverage in this promising area. Additional diamond or percussion drilling will be required to follow up this work if results are positive.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



R. C. Carne, M.Sc., P. Geo

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APPENDIX I

AUTHOR'S STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Robert C. Carne, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Burnaby, British Columbia, hereby certify that:

1. I graduated from the University of British Columbia in 1974 with a B.Sc. and in 1979 with a M.Sc. majoring in Geological Sciences.
2. I am a Professional Geoscientist registered with the Association of Professional Engineers and Geoscientists of the Province of British Columbia (registration number 19868).
3. From 1974 to present, I have been actively engaged as a geologist in mineral exploration in British Columbia and Yukon Territory and on June 1, 1981 became a partner of Archer, Cathro & Associates (1981) Limited.
4. I have personally participated in or supervised the field work reported herein and have interpreted all data resulting from this work.



Robert C. Carne, M.Sc., P.Geo.

APPENDIX II
LIST OF PERSONNEL

LIST OF PERSONNEL

<u>Name</u>	<u>Position</u>	<u>Period</u>
R. Carne	Supervisor, Prospector	August 27 - September 9
R. Moar	Field Assistant	August 27 - September 9

APPENDIX III
CERTIFICATES OF ANALYSIS



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Analytical Chemists * Geochemists * Registered Assayers

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Comments:

Page : 1-A
Total : 1
Certificate Date: 08-OCT-2001
Invoice No. : I0125661
P.O. Number :
Account : MPM

CERTIFICATE OF ANALYSIS

A0125661

SAMPLE	PREP CODE	Weight Kg	Au ppb FA+AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm
BB33755	94139402	0.28	455	0.6	0.42	372	60	20	0.5	582	0.01	< 0.5	20	63	255	6.58	< 10	< 1	0.13	50
BB33780	94139402	0.86	10	< 0.2	1.02	28	< 10	40	0.5	6	0.04	< 0.5	8	92	24	2.98	< 10	< 1	0.19	20
BB33781	94139402	0.60	< 5	0.2	1.14	36	< 10	50	0.5	6	0.06	< 0.5	10	60	29	2.61	< 10	< 1	0.27	30
P396001	94139402	2.00	15	0.8	0.34	450	< 10	30	< 0.5	10	< 0.01	< 0.5	< 1	131	36	0.70	< 10	< 1	0.27	10
P396002	94139402	3.74	< 5	0.4	0.25	736	< 10	30	< 0.5	10	< 0.01	< 0.5	2	128	58	1.21	< 10	< 1	0.18	10
P396003	94139402	4.04	10	0.2	0.13	588	< 10	20	< 0.5	10	< 0.01	< 0.5	1	154	15	0.73	< 10	< 1	0.10	10
P396004	94139402	3.94	15	0.2	0.15	520	< 10	10	< 0.5	4	< 0.01	< 0.5	1	100	23	1.30	< 10	< 1	0.10	< 10
P396005	94139402	4.02	20	0.2	0.15	566	< 10	10	< 0.5	6	< 0.01	< 0.5	1	127	32	1.33	< 10	< 1	0.11	10
P396006	94139402	7.28	45	0.6	0.22	1390	< 10	20	< 0.5	42	0.01	0.5	2	118	156	3.66	< 10	< 1	0.09	< 10
P396007	94139402	2.38	40	0.2	0.21	1950	< 10	20	< 0.5	10	0.02	1.0	3	114	162	4.72	< 10	< 1	0.09	< 10
P396008	94139402	5.88	15	0.2	0.22	2170	< 10	30	< 0.5	6	0.01	0.5	4	92	177	4.60	< 10	< 1	0.10	< 10
P396009	94139402	7.42	< 5	0.2	0.22	1315	< 10	20	< 0.5	2	0.01	0.5	2	93	167	2.77	< 10	< 1	0.12	< 10
P396010	94139402	9.02	20	0.2	0.26	2570	< 10	30	< 0.5	4	0.01	0.5	3	98	191	3.83	< 10	< 1	0.11	< 10
P396011	94139402	4.88	5	0.2	0.16	1290	< 10	30	< 0.5	12	0.02	0.5	1	107	46	1.99	< 10	< 1	0.10	10
P396012	94139402	4.76	220	1.0	0.46	>10000	< 10	90	1.5	34	0.21	17.5	10	22	1875	>15.00	10	< 1	0.20	< 10
P396051	94139402	1.98	25	0.2	0.19	1400	< 10	20	< 0.5	6	0.02	0.5	1	114	110	2.17	< 10	< 1	0.09	< 10
P396052	94139402	1.28	45	< 0.2	0.09	1235	< 10	10	< 0.5	6	0.01	0.5	< 1	108	85	1.98	< 10	< 1	0.07	< 10
P396053	94139402	1.80	125	0.2	0.04	422	10	10	< 0.5	4	< 0.01	< 0.5	< 1	176	13	0.69	< 10	< 1	0.02	< 10
P396054	94139402	0.68	25	1.8	0.35	694	40	< 10	1.0	2	< 0.01	2.0	22	75	286	5.75	< 10	< 1	0.02	40
P396055	94139402	0.56	< 5	< 0.2	0.19	22	< 10	40	< 0.5	< 2	0.17	0.5	5	114	8	2.12	< 10	< 1	0.10	10
P396056	94139402	0.28	< 5	< 0.2	0.21	18	< 10	30	< 0.5	4	0.03	< 0.5	3	109	9	1.11	< 10	< 1	0.11	10
P396057	94139402	0.10	< 5	< 0.2	0.30	24	< 10	90	0.5	4	0.03	3.0	11	114	20	7.02	< 10	< 1	0.07	< 10
P396058	94139402	0.24	< 5	< 0.2	0.10	22	< 10	10	< 0.5	< 2	< 0.01	< 0.5	5	157	10	1.50	< 10	< 1	0.03	< 10
P396059	94139402	0.18	10	< 0.2	0.21	86	< 10	10	< 0.5	6	0.02	< 0.5	3	210	44	1.22	< 10	< 1	0.04	< 10
P396060	94139402	0.24	< 5	< 0.2	0.08	14	< 10	20	< 0.5	< 2	0.01	< 0.5	4	175	8	1.16	< 10	< 1	0.03	< 10
P396061	94139402	0.32	< 5	< 0.2	0.44	286	< 10	30	< 0.5	< 2	0.12	< 0.5	9	138	71	0.33	< 10	< 1	0.11	< 10
P396062	94139402	0.24	15	< 0.2	0.13	464	< 10	90	< 0.5	< 2	0.05	0.5	4	141	30	3.11	< 10	< 1	0.09	< 10

CERTIFICATION:

John Wink



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SAMPLE	PREP CODE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
BB33755	94139402	0.03	330	< 1	0.01	32	500	240	0.01	6	4	12	< 0.01	< 10	< 10	6	10	88
BB33780	94139402	0.47	450	< 1	0.01	18	320	12	< 0.01	4	1	10	< 0.01	< 10	< 10	8	< 10	38
BB33781	94139402	0.45	450	< 1	0.01	21	410	10	< 0.01	6	2	12	< 0.01	< 10	< 10	10	< 10	36
P396001	94139402	0.01	20	< 1	0.01	4	80	16	0.01	6	< 1	8	< 0.01	< 10	< 10	2	< 10	10
P396002	94139402	0.01	25	< 1	< 0.01	6	110	38	0.02	14	< 1	7	< 0.01	< 10	< 10	1	< 10	30
P396003	94139402	< 0.01	15	< 1	< 0.01	5	80	32	0.03	12	< 1	4	< 0.01	< 10	< 10	< 1	< 10	8
P396004	94139402	< 0.01	35	< 1	0.01	4	80	6	< 0.01	6	< 1	2	< 0.01	< 10	< 10	< 1	< 10	16
P396005	94139402	< 0.01	30	< 1	0.01	5	70	4	< 0.01	6	< 1	1	< 0.01	< 10	< 10	< 1	< 10	14
P396006	94139402	< 0.01	85	< 1	< 0.01	7	200	10	0.01	8	< 1	2	< 0.01	< 10	< 10	< 1	< 10	34
P396007	94139402	< 0.01	145	< 1	< 0.01	9	200	10	0.01	6	< 1	4	< 0.01	< 10	< 10	< 1	< 10	36
P396008	94139402	< 0.01	135	< 1	< 0.01	7	230	10	0.01	4	< 1	3	< 0.01	< 10	< 10	1	< 10	36
P396009	94139402	< 0.01	65	< 1	0.01	6	150	6	< 0.01	6	< 1	3	< 0.01	< 10	< 10	1	< 10	28
P396010	94139402	< 0.01	95	< 1	< 0.01	8	210	12	0.02	18	< 1	4	< 0.01	< 10	< 10	1	< 10	38
P396011	94139402	< 0.01	55	< 1	0.01	4	120	8	< 0.01	6	< 1	3	< 0.01	< 10	< 10	1	< 10	18
P396012	94139402	0.03	1015	1	< 0.01	17	1260	36	0.34	34	6	159	< 0.01	< 10	20	26	40	164
P396051	94139402	< 0.01	55	< 1	0.01	6	140	8	0.01	8	< 1	6	< 0.01	< 10	< 10	< 1	< 10	30
P396052	94139402	< 0.01	70	< 1	< 0.01	3	100	14	0.08	2	< 1	11	< 0.01	< 10	< 10	< 1	< 10	16
P396053	94139402	< 0.01	20	< 1	0.01	5	60	68	0.16	< 2	< 1	5	< 0.01	< 10	< 10	< 1	< 10	6
P396054	94139402	0.01	585	< 1	< 0.01	69	370	3460	0.04	60	3	6	< 0.01	10	< 10	< 1	< 10	1055
P396055	94139402	0.05	995	< 1	< 0.01	12	170	28	< 0.01	< 2	1	5	< 0.01	< 10	< 10	1	< 10	26
P396056	94139402	0.02	475	< 1	0.01	9	190	26	< 0.01	< 2	1	4	< 0.01	< 10	< 10	1	< 10	16
P396057	94139402	0.09	2020	< 1	< 0.01	26	170	8	< 0.01	< 2	3	4	< 0.01	< 10	< 10	3	< 10	44
P396058	94139402	0.01	290	< 1	0.01	8	120	18	< 0.01	< 2	< 1	2	< 0.01	< 10	< 10	< 1	< 10	22
P396059	94139402	0.01	150	1	0.02	11	110	8	< 0.01	< 2	< 1	3	< 0.01	< 10	< 10	1	< 10	18
P396060	94139402	0.01	920	< 1	0.01	7	110	8	< 0.01	< 2	< 1	4	< 0.01	< 10	< 10	< 1	< 10	14
P396061	94139402	0.01	75	< 1	0.01	13	390	2	0.01	< 2	< 1	7	< 0.01	< 10	< 10	1	< 10	10
P396062	94139402	0.07	1680	< 1	0.01	9	100	6	0.12	< 2	< 1	5	< 0.01	< 10	< 10	< 1	< 10	14

CERTIFICATION:

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CERTIFICATE OF ANALYSIS

A0125660

SAMPLE	PREP CODE	Weight Kg	Au ppb FA+AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm
BB33732	94069407	0.18	< 5	< 0.2	1.16	28	< 10	170	< 0.5	< 2	0.72	< 0.5	8	15	33	2.27	< 10	< 1	0.05	10
BB33733	94069407	0.18	5	< 0.2	1.01	36	< 10	120	< 0.5	< 2	0.74	0.5	10	13	25	2.36	< 10	< 1	0.04	10
BB33734	94069407	0.22	< 5	< 0.2	0.72	74	< 10	40	< 0.5	2	0.05	< 0.5	8	8	26	2.95	< 10	< 1	0.03	10
BB33735	94069407	0.20	< 5	< 0.2	1.30	30	< 10	130	< 0.5	< 2	0.59	< 0.5	15	13	28	2.94	< 10	< 1	0.07	10
BB33736	94069407	0.38	< 5	< 0.2	1.13	34	< 10	120	< 0.5	< 2	0.20	< 0.5	12	13	28	2.92	< 10	< 1	0.07	< 10
BB33737	94069407	0.30	< 5	< 0.2	1.43	26	< 10	130	< 0.5	< 2	0.57	< 0.5	11	15	33	2.87	< 10	< 1	0.07	10
BB33738	94069407	0.42	< 5	< 0.2	1.13	28	< 10	80	< 0.5	< 2	0.29	< 0.5	11	13	34	2.91	< 10	< 1	0.07	10
BB33739	94069407	0.36	< 5	< 0.2	1.05	28	< 10	100	< 0.5	< 2	0.50	< 0.5	11	12	29	2.57	< 10	< 1	0.06	10
BB33740	94069407	0.24	15	< 0.2	1.05	46	< 10	100	< 0.5	< 2	0.99	< 0.5	10	12	31	2.42	< 10	< 1	0.06	10
BB33741	94069407	0.40	10	< 0.2	1.29	48	< 10	80	< 0.5	< 2	0.83	< 0.5	10	15	28	2.51	< 10	< 1	0.07	10
BB33742	94069407	0.48	10	< 0.2	1.18	42	< 10	120	< 0.5	2	0.81	< 0.5	8	12	27	2.35	< 10	< 1	0.06	< 10
BB33743	94069407	0.24	10	< 0.2	1.22	42	< 10	120	< 0.5	< 2	0.71	< 0.5	9	14	25	2.46	< 10	< 1	0.06	10
BB33744	94069407	0.32	< 5	< 0.2	0.82	20	< 10	80	< 0.5	< 2	0.41	0.5	5	11	20	1.73	< 10	< 1	0.05	< 10
BB33745	94069407	0.30	< 5	< 0.2	0.71	22	< 10	70	< 0.5	< 2	0.09	< 0.5	4	8	14	1.26	< 10	< 1	0.04	10
BB33746	94069407	0.24	5	< 0.2	1.02	44	< 10	60	< 0.5	< 2	0.18	< 0.5	7	12	24	2.40	< 10	< 1	0.06	10
BB33747	94069407	0.24	< 5	0.2	1.19	34	< 10	130	< 0.5	2	0.65	< 0.5	10	14	24	2.37	< 10	< 1	0.05	< 10
BB33748	94069407	0.28	< 5	< 0.2	1.07	38	< 10	100	< 0.5	< 2	0.25	< 0.5	7	13	21	2.41	< 10	< 1	0.06	10
BB33749	94069407	0.24	10	0.2	1.22	40	< 10	130	< 0.5	< 2	0.58	< 0.5	10	13	27	2.49	< 10	< 1	0.06	10
BB33750	94069407	0.20	10	0.2	1.22	44	< 10	130	< 0.5	< 2	0.41	< 0.5	11	14	26	2.69	< 10	< 1	0.06	10
BB33751	94069407	0.24	< 5	0.2	1.14	22	< 10	150	< 0.5	< 2	0.31	< 0.5	5	13	26	1.71	< 10	< 1	0.07	< 10
BB33752	94069407	0.28	< 5	0.2	1.35	14	< 10	160	< 0.5	< 2	0.64	< 0.5	4	16	16	1.74	< 10	< 1	0.05	< 10
BB33753	94069407	0.20	10	0.2	1.28	18	< 10	210	< 0.5	< 2	1.12	< 0.5	9	14	23	1.99	< 10	< 1	0.05	< 10
BB33756	94069407	0.24	< 5	< 0.2	1.38	38	< 10	50	< 0.5	4	0.02	< 0.5	5	18	11	2.90	< 10	< 1	0.03	10
BB33757	94069407	0.30	10	< 0.2	0.98	80	< 10	40	< 0.5	2	< 0.01	< 0.5	7	12	27	2.79	< 10	< 1	0.03	10
BB33758	94069407	0.28	< 5	0.2	0.84	22	< 10	30	< 0.5	< 2	0.01	< 0.5	3	11	14	2.23	< 10	< 1	0.03	10
BB33759	94069407	0.30	< 5	< 0.2	1.23	52	< 10	40	< 0.5	6	0.01	< 0.5	3	17	11	2.75	< 10	< 1	0.03	10
BB33760	94069407	0.22	< 5	< 0.2	1.45	64	< 10	50	< 0.5	4	0.01	< 0.5	5	24	17	4.07	< 10	< 1	0.04	10
BB33761	94069407	0.22	< 5	< 0.2	1.25	38	< 10	50	< 0.5	10	0.02	< 0.5	3	16	9	3.13	< 10	< 1	0.02	10
BB33762	94069407	0.30	< 5	< 0.2	1.56	116	< 10	90	0.5	6	0.01	< 0.5	10	16	35	3.42	< 10	< 1	0.06	10
BB33763	94069407	0.24	10	< 0.2	0.65	68	< 10	30	< 0.5	4	< 0.01	< 0.5	5	6	19	1.62	< 10	< 1	0.03	10
BB33764	94069407	0.30	5	< 0.2	0.92	74	< 10	40	< 0.5	2	0.01	< 0.5	3	13	13	2.12	< 10	< 1	0.03	10
BB33765	94069407	0.18	< 5	< 0.2	1.15	18	< 10	50	< 0.5	< 2	0.03	< 0.5	2	19	6	2.34	< 10	< 1	0.03	10
BB33766	94069407	0.26	5	< 0.2	1.04	120	< 10	30	< 0.5	8	0.01	< 0.5	7	15	26	3.50	< 10	< 1	0.04	10
BB33767	94069407	0.26	< 5	0.2	1.07	22	< 10	60	< 0.5	2	0.01	< 0.5	5	15	21	2.41	< 10	< 1	0.03	10
BB33768	94069407	0.26	< 5	< 0.2	1.41	26	< 10	50	< 0.5	2	0.26	< 0.5	9	21	26	3.40	< 10	< 1	0.03	10
BB33769	94069407	0.34	< 5	< 0.2	1.47	60	< 10	40	0.5	6	0.09	< 0.5	17	19	34	3.62	< 10	< 1	0.03	20
BB33770	94069407	0.30	10	< 0.2	1.86	36	< 10	60	< 0.5	< 2	0.08	< 0.5	14	24	30	3.40	< 10	< 1	0.04	10
BB33771	94069407	0.26	< 5	0.2	1.34	32	< 10	70	< 0.5	< 2	0.10	< 0.5	18	32	33	4.21	< 10	< 1	0.04	< 10
BB33772	94069407	0.34	< 5	< 0.2	2.40	28	< 10	40	0.5	< 2	0.12	< 0.5	23	26	74	5.34	< 10	< 1	0.04	10
BB33773	94069407	0.50	< 5	< 0.2	2.05	54	< 10	80	0.5	6	0.26	< 0.5	20	25	56	4.02	< 10	< 1	0.05	10

CERTIFICATION:

John Walker



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Total : 3
Certificate Date: 08-OCT-2001
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Account : MP

CERTIFICATE OF ANALYSIS

A0125660

SAMPLE	PREP CODE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
BB33732	94069407	0.38	395	1	0.01	22	650	14	0.04	2	1	41	< 0.01	< 10	< 10	20	< 10	68
BB33733	94069407	0.26	390	< 1	0.01	17	510	22	0.03	6	1	39	0.01	< 10	< 10	25	< 10	72
BB33734	94069407	0.22	150	1	< 0.01	16	350	10	< 0.01	6	< 1	6	< 0.01	< 10	< 10	19	< 10	50
BB33735	94069407	0.47	885	< 1	0.01	22	520	16	0.03	4	1	37	< 0.01	< 10	< 10	16	< 10	78
BB33736	94069407	0.37	340	1	0.01	22	690	22	0.04	4	1	21	< 0.01	< 10	< 10	23	< 10	84
BB33737	94069407	0.55	355	1	0.01	27	540	20	0.02	4	1	38	< 0.01	< 10	< 10	17	< 10	90
BB33738	94069407	0.50	445	< 1	< 0.01	26	550	22	0.01	6	1	25	< 0.01	< 10	< 10	15	< 10	94
BB33739	94069407	0.45	410	1	0.01	24	540	18	0.02	4	1	31	< 0.01	< 10	< 10	18	< 10	78
BB33740	94069407	0.41	570	< 1	0.01	23	510	20	0.04	8	1	48	< 0.01	< 10	< 10	13	< 10	68
BB33741	94069407	0.52	360	1	0.01	25	590	16	0.04	4	1	52	< 0.01	< 10	< 10	17	< 10	64
BB33742	94069407	0.40	320	< 1	0.01	21	600	12	0.05	6	1	49	< 0.01	< 10	< 10	16	< 10	50
BB33743	94069407	0.42	335	< 1	0.01	22	580	14	0.04	6	1	49	< 0.01	< 10	< 10	17	< 10	54
BB33744	94069407	0.23	155	< 1	0.01	13	380	12	0.03	2	< 1	31	< 0.01	< 10	< 10	20	< 10	40
BB33745	94069407	0.16	70	< 1	0.01	10	190	6	0.01	2	< 1	9	< 0.01	< 10	< 10	14	< 10	28
BB33746	94069407	0.34	175	< 1	< 0.01	19	320	10	0.02	6	1	16	< 0.01	< 10	< 10	18	< 10	56
BB33747	94069407	0.34	410	1	0.01	21	640	14	0.04	4	1	39	< 0.01	< 10	< 10	17	< 10	56
BB33748	94069407	0.34	200	< 1	0.01	17	400	14	0.01	6	1	18	< 0.01	< 10	< 10	18	< 10	54
BB33749	94069407	0.37	430	1	0.01	21	520	14	0.03	6	1	35	< 0.01	< 10	< 10	15	< 10	54
BB33750	94069407	0.38	415	1	0.01	21	560	16	0.02	8	1	26	< 0.01	< 10	< 10	17	< 10	56
BB33751	94069407	0.24	115	< 1	0.01	16	740	12	0.04	4	1	21	< 0.01	< 10	< 10	20	< 10	42
BB33752	94069407	0.24	115	1	0.01	14	380	10	0.02	2	1	35	< 0.01	< 10	< 10	28	< 10	44
BB33753	94069407	0.31	605	< 1	0.01	19	760	12	0.06	2	1	54	< 0.01	< 10	< 10	20	< 10	48
BB33756	94069407	0.26	155	1	< 0.01	13	280	14	0.01	< 2	1	5	0.01	< 10	< 10	39	< 10	52
BB33757	94069407	0.22	140	1	< 0.01	16	330	12	0.01	< 2	1	4	< 0.01	< 10	< 10	40	< 10	44
BB33758	94069407	0.10	125	< 1	< 0.01	8	460	10	0.01	< 2	< 1	4	0.01	< 10	< 10	35	< 10	36
BB33759	94069407	0.18	125	1	< 0.01	9	380	10	< 0.01	< 2	1	4	0.03	< 10	< 10	51	< 10	36
BB33760	94069407	0.31	190	2	< 0.01	16	490	16	0.01	< 2	1	5	0.03	< 10	< 10	52	< 10	56
BB33761	94069407	0.15	120	1	< 0.01	7	310	10	0.01	2	1	4	0.02	< 10	< 10	42	< 10	36
BB33762	94069407	0.33	210	1	< 0.01	23	330	26	0.01	4	1	5	< 0.01	< 10	< 10	23	< 10	56
BB33763	94069407	0.04	90	< 1	< 0.01	9	350	12	0.01	2	< 1	4	< 0.01	< 10	< 10	25	< 10	24
BB33764	94069407	0.20	105	1	< 0.01	11	320	18	0.01	2	< 1	5	0.03	< 10	< 10	41	< 10	38
BB33765	94069407	0.22	80	1	< 0.01	7	370	16	0.02	< 2	< 1	5	0.04	< 10	< 10	53	< 10	30
BB33766	94069407	0.28	195	< 1	< 0.01	16	640	22	0.02	2	1	6	0.01	< 10	< 10	27	< 10	52
BB33767	94069407	0.15	260	1	0.01	11	960	12	0.06	< 2	< 1	3	< 0.01	< 10	< 10	22	< 10	32
BB33768	94069407	0.48	380	< 1	0.01	23	730	10	0.05	< 2	< 1	13	< 0.01	< 10	< 10	25	< 10	52
BB33769	94069407	0.55	580	< 1	< 0.01	38	400	10	0.01	2	1	8	< 0.01	< 10	< 10	12	< 10	54
BB33770	94069407	0.79	525	< 1	< 0.01	34	410	14	0.01	2	1	7	< 0.01	< 10	< 10	17	< 10	66
BB33771	94069407	0.39	2430	< 1	0.01	25	2380	18	0.14	2	1	9	< 0.01	< 10	< 10	19	< 10	56
BB33772	94069407	0.79	940	2	0.01	47	810	34	0.05	2	1	17	< 0.01	< 10	< 10	15	< 10	118
BB33773	94069407	0.72	1205	< 1	< 0.01	40	650	24	0.01	4	3	16	< 0.01	< 10	< 10	19	< 10	80

CERTIFICATION:

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SAMPLE	PREP CODE	Weight Kg	Au ppb FA+AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm
BB33774	94069407	0.34	10	< 0.2	1.81	88	< 10	100	0.5	24	0.27	< 0.5	20	21	41	3.83	< 10	< 1	0.04	< 10
BB33775	94069407	0.26	20	< 0.2	1.77	88	< 10	120	0.5	88	0.17	< 0.5	14	20	38	3.46	< 10	< 1	0.06	10
BB33776	94069407	0.24	5	< 0.2	0.37	90	< 10	50	< 0.5	8	0.03	< 0.5	5	8	17	2.66	< 10	< 1	0.03	10
BB33777	94069407	0.22	< 5	< 0.2	0.42	32	< 10	50	< 0.5	4	0.01	< 0.5	2	9	10	1.17	< 10	< 1	0.02	10
BB33778	94069407	0.30	15	< 0.2	1.03	182	< 10	40	< 0.5	6	< 0.01	< 0.5	10	11	39	3.21	< 10	< 1	0.04	10
BB33779	94069407	0.28	< 5	< 0.2	0.96	118	< 10	90	< 0.5	< 2	0.03	< 0.5	9	14	31	3.31	< 10	< 1	0.05	10
BB33783	94069407	0.20	5	< 0.2	1.51	32	< 10	100	0.5	< 2	0.66	< 0.5	12	16	33	3.48	< 10	< 1	0.06	10
BB33784	94069407	0.20	10	< 0.2	1.41	42	< 10	90	< 0.5	2	0.47	< 0.5	11	16	32	3.20	< 10	< 1	0.06	10
BB33785	94069407	0.18	< 5	< 0.2	1.55	26	< 10	120	0.5	< 2	0.34	< 0.5	11	16	26	3.20	< 10	< 1	0.06	10
BB33786	94069407	0.24	< 5	< 0.2	1.38	28	< 10	100	< 0.5	2	0.27	< 0.5	13	15	28	3.13	< 10	< 1	0.05	10
BB33787	94069407	0.16	< 5	0.2	1.18	22	< 10	100	< 0.5	< 2	0.25	< 0.5	6	13	19	2.48	< 10	< 1	0.04	< 10
BB33788	94069407	0.20	< 5	< 0.2	1.47	36	< 10	110	< 0.5	< 2	0.21	< 0.5	9	17	19	3.25	< 10	< 1	0.06	10
BB33789	94069407	0.18	< 5	< 0.2	1.39	24	< 10	80	< 0.5	< 2	0.06	< 0.5	9	16	24	3.34	< 10	< 1	0.05	10
BB33790	94069407	0.24	< 5	< 0.2	1.35	32	< 10	70	< 0.5	2	0.13	< 0.5	13	16	26	3.37	< 10	< 1	0.05	10
BB33791	94069407	0.30	< 5	< 0.2	1.50	28	< 10	80	0.5	< 2	0.15	< 0.5	13	16	35	3.53	< 10	< 1	0.05	20
BB33792	94069407	0.26	< 5	< 0.2	1.12	24	< 10	60	< 0.5	< 2	0.06	< 0.5	6	11	19	2.52	< 10	< 1	0.04	20
BB33793	94069407	0.26	< 5	< 0.2	1.66	18	< 10	130	0.5	2	0.18	< 0.5	11	18	27	3.29	< 10	< 1	0.06	10
BB33794	94069407	0.22	< 5	0.2	2.02	26	< 10	230	0.5	< 2	0.16	< 0.5	16	19	34	3.89	< 10	< 1	0.08	10
BB33795	94069407	0.22	< 5	< 0.2	1.50	26	< 10	50	< 0.5	< 2	0.04	< 0.5	6	24	10	3.58	< 10	< 1	0.03	10
BB33796	94069407	0.22	< 5	< 0.2	0.89	32	< 10	40	< 0.5	< 2	0.02	< 0.5	5	18	9	3.08	< 10	< 1	0.03	10
BB33797	94069407	0.30	< 5	< 0.2	1.52	16	< 10	80	0.5	< 2	0.28	< 0.5	13	18	31	3.73	< 10	< 1	0.07	20
BB33798	94069407	0.18	< 5	< 0.2	1.13	14	< 10	80	0.5	< 2	3.48	< 0.5	9	12	18	2.80	< 10	< 1	0.03	10
BB33799	94069407	0.14	< 5	< 0.2	0.79	4	< 10	120	< 0.5	< 2	1.82	< 0.5	6	10	10	1.72	< 10	< 1	0.02	< 10
BB33800	94069407	0.20	< 5	< 0.2	1.44	14	< 10	120	0.5	< 2	0.63	< 0.5	9	16	22	3.26	< 10	< 1	0.05	10
BB33801	94069407	0.24	< 5	< 0.2	1.16	34	< 10	100	0.5	< 2	0.41	< 0.5	16	14	35	3.67	< 10	< 1	0.07	10
BB33802	94069407	0.24	5	< 0.2	1.25	44	< 10	80	< 0.5	< 2	0.06	< 0.5	10	18	28	3.14	< 10	< 1	0.04	10
BB33803	94069407	0.22	< 5	< 0.2	1.14	20	< 10	70	< 0.5	< 2	0.10	< 0.5	7	16	14	3.41	< 10	< 1	0.04	10
BB33804	94069407	0.24	< 5	< 0.2	1.31	20	< 10	100	0.5	< 2	0.13	< 0.5	12	17	26	3.44	< 10	< 1	0.03	20
BB33805	94069407	0.14	< 5	0.2	0.65	14	< 10	40	< 0.5	< 2	0.01	< 0.5	2	12	8	1.79	< 10	< 1	0.02	< 10
BB33806	94069407	0.12	< 5	< 0.2	0.49	12	< 10	40	< 0.5	< 2	0.01	< 0.5	1	6	6	1.05	< 10	< 1	0.03	< 10
BB33807	94069407	0.18	< 5	0.2	0.88	10	< 10	50	< 0.5	< 2	0.02	< 0.5	3	11	6	2.12	< 10	< 1	0.02	10
BB33808	94069407	0.22	< 5	< 0.2	0.97	12	< 10	80	< 0.5	< 2	0.07	< 0.5	4	16	9	2.25	< 10	< 1	0.03	10
BB33809	94069407	0.18	< 5	< 0.2	1.10	40	< 10	80	< 0.5	< 2	0.05	< 0.5	10	16	24	3.90	< 10	< 1	0.04	10
BB33810	94069407	0.20	< 5	< 0.2	0.86	152	< 10	110	0.5	< 2	0.34	< 0.5	20	11	49	5.12	< 10	< 1	0.07	10
BB33811	94069407	0.22	< 5	< 0.2	1.18	50	< 10	130	0.5	< 2	0.34	< 0.5	11	17	27	3.19	< 10	< 1	0.04	10
BB33812	94069407	0.20	< 5	< 0.2	1.23	52	< 10	120	0.5	2	0.38	< 0.5	14	15	39	3.53	< 10	< 1	0.06	10
BB33813	94069407	0.20	< 5	< 0.2	1.06	48	< 10	80	0.5	< 2	0.50	< 0.5	13	14	31	3.35	< 10	< 1	0.05	10
BB33814	94069407	0.28	< 5	< 0.2	1.17	40	< 10	120	0.5	2	0.62	< 0.5	12	14	30	3.20	< 10	< 1	0.05	10
BB33815	94069407	0.22	< 5	0.2	0.71	10	< 10	50	0.5	< 2	6.99	< 0.5	12	10	29	2.84	< 10	< 1	0.03	20
BB33816	94069407	0.14	< 5	< 0.2	1.01	10	< 10	90	< 0.5	< 2	1.32	< 0.5	11	13	25	2.54	< 10	< 1	0.04	10

CERTIFICATION:

John Wink



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Certificate Date: 08-OCT-2001

Invoice No.: 10125660

P.O. Number:

Account: MPM

CERTIFICATE OF ANALYSIS

A0125660

SAMPLE	PREP CODE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
BB33774	94069407	0.58	1375	1	< 0.01	34	1070	20	0.05	2	1	12	< 0.01	< 10	< 10	18	< 10	78
BB33775	94069407	0.58	685	1	0.01	34	870	16	0.04	6	1	11	< 0.01	< 10	< 10	16	< 10	80
BB33776	94069407	0.06	240	2	< 0.01	11	540	10	0.04	< 2	< 1	6	0.01	< 10	< 10	56	< 10	50
BB33777	94069407	0.03	70	1	< 0.01	7	250	10	0.02	< 2	< 1	4	0.02	< 10	< 10	46	< 10	32
BB33778	94069407	0.33	260	< 1	< 0.01	22	320	44	0.03	6	1	9	< 0.01	< 10	< 10	18	< 10	66
BB33779	94069407	0.26	510	1	< 0.01	20	690	38	0.05	4	< 1	8	< 0.01	< 10	< 10	36	< 10	82
BB33783	94069407	0.45	350	< 1	0.01	29	580	48	0.03	2	1	40	< 0.01	< 10	< 10	12	< 10	82
BB33784	94069407	0.44	395	< 1	0.01	28	670	52	0.01	6	1	35	< 0.01	< 10	< 10	13	< 10	104
BB33785	94069407	0.42	345	1	0.01	26	570	44	0.01	6	1	28	< 0.01	< 10	< 10	15	< 10	84
BB33786	94069407	0.39	480	< 1	< 0.01	25	610	54	0.01	2	1	23	< 0.01	< 10	< 10	14	< 10	84
BB33787	94069407	0.28	150	< 1	0.01	16	580	32	0.02	2	< 1	21	< 0.01	< 10	< 10	15	< 10	52
BB33788	94069407	0.40	305	< 1	0.01	22	400	38	< 0.01	4	1	19	< 0.01	< 10	< 10	17	< 10	76
BB33789	94069407	0.36	265	< 1	0.01	22	780	46	0.01	2	1	10	< 0.01	< 10	< 10	18	< 10	78
BB33790	94069407	0.45	480	< 1	< 0.01	27	460	50	0.01	2	1	15	< 0.01	< 10	< 10	12	< 10	82
BB33791	94069407	0.49	395	< 1	< 0.01	31	360	52	< 0.01	4	2	17	< 0.01	< 10	< 10	11	< 10	88
BB33792	94069407	0.23	135	< 1	< 0.01	15	300	36	0.01	2	< 1	9	< 0.01	< 10	< 10	16	< 10	54
BB33793	94069407	0.45	330	< 1	< 0.01	27	430	56	< 0.01	4	1	17	< 0.01	< 10	< 10	15	< 10	84
BB33794	94069407	0.49	650	1	0.01	31	530	44	< 0.01	6	1	18	< 0.01	< 10	< 10	19	< 10	106
BB33795	94069407	0.38	285	1	0.01	16	440	52	< 0.01	2	1	8	0.03	< 10	< 10	39	< 10	68
BB33796	94069407	0.18	210	1	< 0.01	10	590	48	0.01	< 2	< 1	6	0.06	< 10	< 10	44	< 10	56
BB33797	94069407	0.49	420	< 1	< 0.01	33	360	26	< 0.01	6	2	24	< 0.01	< 10	< 10	10	< 10	90
BB33798	94069407	0.21	580	< 1	0.01	24	1620	22	0.06	6	1	118	< 0.01	< 10	< 10	12	< 10	64
BB33799	94069407	0.14	400	< 1	0.01	12	880	14	0.06	2	1	80	< 0.01	< 10	< 10	13	< 10	40
BB33800	94069407	0.41	275	< 1	< 0.01	27	590	20	0.03	6	1	32	< 0.01	< 10	< 10	11	< 10	84
BB33801	94069407	0.37	705	< 1	< 0.01	36	560	36	0.01	6	3	25	< 0.01	< 10	< 10	9	< 10	102
BB33802	94069407	0.40	340	< 1	< 0.01	25	570	38	0.01	6	1	12	< 0.01	< 10	< 10	18	< 10	74
BB33803	94069407	0.35	185	1	< 0.01	21	430	58	0.01	6	1	7	< 0.01	< 10	< 10	20	< 10	70
BB33804	94069407	0.47	310	1	< 0.01	31	410	24	< 0.01	6	2	13	< 0.01	< 10	< 10	12	< 10	76
BB33805	94069407	0.10	75	1	< 0.01	7	440	22	0.02	2	< 1	4	0.01	< 10	< 10	29	< 10	28
BB33806	94069407	0.05	40	< 1	0.01	5	740	12	0.03	2	< 1	3	< 0.01	< 10	< 10	10	< 10	20
BB33807	94069407	0.17	130	< 1	< 0.01	9	250	18	< 0.01	2	< 1	4	< 0.01	< 10	< 10	22	< 10	48
BB33808	94069407	0.24	145	1	< 0.01	12	400	20	0.01	2	< 1	7	0.01	< 10	< 10	25	< 10	46
BB33809	94069407	0.31	410	1	< 0.01	23	440	48	0.01	6	1	9	< 0.01	< 10	< 10	18	< 10	84
BB33810	94069407	0.26	1730	< 1	< 0.01	36	550	46	0.01	10	3	26	< 0.01	< 10	< 10	11	< 10	128
BB33811	94069407	0.36	505	1	< 0.01	24	540	48	0.01	6	2	25	< 0.01	< 10	< 10	19	< 10	92
BB33812	94069407	0.40	440	< 1	< 0.01	32	510	66	0.01	6	3	28	< 0.01	< 10	< 10	13	< 10	100
BB33813	94069407	0.36	525	< 1	< 0.01	29	500	88	0.01	6	2	32	< 0.01	< 10	< 10	12	< 10	104
BB33814	94069407	0.34	885	< 1	0.01	26	550	62	0.02	6	1	39	< 0.01	< 10	< 10	12	< 10	90
BB33815	94069407	0.27	210	< 1	0.01	29	1070	16	0.04	2	3	352	< 0.01	< 10	< 10	9	< 10	76
BB33816	94069407	0.29	400	< 1	0.01	25	510	20	0.04	6	1	60	< 0.01	< 10	< 10	10	< 10	84

CERTIFICATION:

Spia Orkin



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Account : MPM

CERTIFICATE OF ANALYSIS

A0125660

SAMPLE	PREP CODE	Weight Kg	Au ppb FA+AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm
BB33817	94069407	0.30	< 5	< 0.2	1.26	22	< 10	90	0.5	< 2	0.25	< 0.5	13	16	32	3.51	< 10	< 1	0.06	10
BB33818	94069407	0.18	20	0.8	1.31	278	< 10	170	0.5	2	0.69	< 0.5	19	15	36	4.68	< 10	< 1	0.04	10
BB33819	94069407	0.22	20	0.2	0.94	214	< 10	70	0.5	< 2	0.06	< 0.5	9	13	34	3.67	< 10	< 1	0.04	10
BB33820	94069407	0.16	< 5	< 0.2	0.28	6	< 10	10	< 0.5	< 2	0.01	< 0.5	1	3	7	0.57	< 10	< 1	0.01	10
BB33821	94069407	0.16	5	< 0.2	1.02	56	< 10	90	< 0.5	< 2	0.13	< 0.5	19	10	21	3.17	< 10	< 1	0.06	10
BB33822	94069407	0.24	5	< 0.2	1.27	46	< 10	120	0.5	< 2	0.20	< 0.5	13	15	31	3.74	< 10	< 1	0.06	10
BB33823	94069407	0.22	< 5	< 0.2	1.17	48	< 10	70	0.5	< 2	0.29	< 0.5	12	14	37	3.56	< 10	< 1	0.05	10
BB33824	94069407	0.24	< 5	< 0.2	1.19	56	< 10	100	0.5	2	0.43	< 0.5	12	13	38	3.71	< 10	< 1	0.06	10
BB33825	94069407	0.18	< 5	< 0.2	1.14	58	< 10	100	< 0.5	< 2	0.36	< 0.5	8	19	15	2.86	< 10	< 1	0.04	< 10
BB33826	94069407	0.20	65	< 0.2	0.86	1150	< 10	100	< 0.5	12	0.16	< 0.5	5	13	21	2.60	< 10	< 1	0.04	< 10
BB33827	94069407	0.20	20	0.2	0.96	242	< 10	90	< 0.5	2	0.39	< 0.5	10	13	36	3.09	< 10	< 1	0.05	10
BB33828	94069407	0.20	15	< 0.2	0.95	136	< 10	90	0.5	2	0.69	< 0.5	11	12	36	3.41	< 10	< 1	0.05	10
BB33829	94069407	0.18	< 5	< 0.2	1.17	64	< 10	120	0.5	< 2	0.83	< 0.5	10	14	32	3.20	< 10	< 1	0.05	10
BB33830	94069407	0.18	< 5	< 0.2	1.12	56	< 10	110	0.5	2	0.48	< 0.5	10	13	30	3.12	< 10	< 1	0.04	10
BB33831	94069407	0.16	20	0.2	1.06	106	< 10	110	0.5	2	0.84	< 0.5	9	12	33	2.87	< 10	< 1	0.05	< 10
BB33832	94069407	0.20	5	0.2	1.01	116	< 10	100	< 0.5	< 2	0.63	< 0.5	8	12	31	2.74	< 10	< 1	0.04	< 10
BB33833	94069407	0.16	10	0.2	1.07	348	< 10	90	0.5	2	0.65	< 0.5	10	13	30	3.07	< 10	< 1	0.05	< 10
BB33834	94069407	0.16	25	0.2	1.66	576	< 10	220	0.5	2	0.88	< 0.5	13	16	53	4.00	< 10	< 1	0.08	10
BB33835	94069407	0.16	10	< 0.2	1.20	308	< 10	110	0.5	< 2	0.70	< 0.5	11	13	30	3.20	< 10	< 1	0.06	10
BB33836	94069407	0.26	< 5	0.2	1.20	54	< 10	100	0.5	2	0.45	< 0.5	12	13	31	3.24	< 10	< 1	0.06	10
BB33837	94069407	0.22	15	0.2	1.04	50	< 10	90	< 0.5	2	0.42	< 0.5	9	11	24	2.89	< 10	< 1	0.05	10
BB33838	94069407	0.28	10	< 0.2	1.19	70	< 10	80	0.5	2	0.30	< 0.5	11	14	36	3.31	< 10	< 1	0.06	20
BB33839	94069407	0.20	< 5	0.2	0.96	36	< 10	90	< 0.5	2	0.23	< 0.5	6	11	15	2.36	< 10	< 1	0.04	< 10
BB33840	94069407	0.14	< 5	0.2	0.82	40	< 10	90	< 0.5	2	0.37	< 0.5	4	10	21	1.75	< 10	< 1	0.04	< 10
BB33841	94069407	0.18	5	< 0.2	0.91	116	< 10	80	< 0.5	< 2	0.42	< 0.5	9	11	32	2.85	< 10	< 1	0.05	10
BB33842	94069407	0.20	20	1.0	0.81	262	< 10	50	0.5	2	0.23	1.5	15	8	111	6.59	< 10	< 1	0.04	10
BB33843	94069407	0.14	5	0.4	1.04	108	< 10	80	0.5	< 2	1.23	< 0.5	9	9	33	2.94	< 10	< 1	0.05	10
BB33844	94069407	0.18	< 5	< 0.2	1.34	18	< 10	90	< 0.5	< 2	0.46	< 0.5	10	14	25	3.10	< 10	< 1	0.06	10
BB33845	94069407	0.20	< 5	< 0.2	1.25	18	< 10	70	0.5	2	0.72	< 0.5	12	14	29	3.20	< 10	< 1	0.06	10
BB33846	94069407	0.14	< 5	< 0.2	1.23	12	< 10	80	< 0.5	< 2	1.03	< 0.5	11	12	25	2.78	< 10	< 1	0.05	10

CERTIFICATION:

John Wink



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SAMPLE	PREP CODE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
BB33817	94069407	0.41	385	< 1	< 0.01	32	410	32	< 0.01	6	3	23	< 0.01	< 10	< 10	12	< 10	100
BB33818	94069407	0.22	2150	1	< 0.01	45	910	208	0.03	10	3	38	< 0.01	< 10	< 10	13	< 10	308
BB33819	94069407	0.20	620	< 1	< 0.01	23	470	314	0.01	6	1	15	< 0.01	< 10	< 10	14	< 10	218
BB33820	94069407	0.01	35	< 1	< 0.01	3	310	6	0.01	< 2	< 1	4	< 0.01	< 10	< 10	11	< 10	18
BB33821	94069407	0.24	845	< 1	< 0.01	20	420	26	0.01	4	1	11	< 0.01	< 10	< 10	19	< 10	64
BB33822	94069407	0.34	390	1	< 0.01	29	460	58	< 0.01	4	1	16	< 0.01	< 10	< 10	13	< 10	98
BB33823	94069407	0.39	400	< 1	< 0.01	31	430	32	0.01	4	2	23	< 0.01	< 10	< 10	9	< 10	92
BB33824	94069407	0.31	550	1	0.01	30	520	42	0.01	8	3	30	< 0.01	< 10	< 10	12	< 10	114
BB33825	94069407	0.34	265	1	< 0.01	17	550	24	0.01	2	1	23	0.01	< 10	< 10	27	< 10	80
BB33826	94069407	0.22	185	< 1	< 0.01	15	450	28	0.02	2	< 1	17	0.01	< 10	< 10	19	< 10	60
BB33827	94069407	0.31	325	< 1	< 0.01	25	680	42	0.02	6	1	30	< 0.01	< 10	< 10	12	< 10	82
BB33828	94069407	0.33	625	< 1	< 0.01	25	600	38	0.03	4	1	48	< 0.01	< 10	< 10	12	< 10	92
BB33829	94069407	0.31	540	< 1	0.01	26	680	56	0.03	6	2	53	< 0.01	< 10	< 10	13	< 10	108
BB33830	94069407	0.30	440	< 1	0.01	25	560	58	0.02	6	2	36	< 0.01	< 10	< 10	12	< 10	92
BB33831	94069407	0.29	375	< 1	0.01	23	620	34	0.04	6	1	56	< 0.01	< 10	< 10	11	< 10	84
BB33832	94069407	0.27	350	< 1	0.01	20	600	32	0.03	4	1	42	< 0.01	< 10	< 10	11	< 10	72
BB33833	94069407	0.31	555	< 1	0.01	22	610	38	0.04	6	1	50	< 0.01	< 10	< 10	12	< 10	84
BB33834	94069407	0.31	765	< 1	0.01	35	760	54	0.04	8	3	64	< 0.01	< 10	< 10	16	< 10	116
BB33835	94069407	0.32	545	< 1	0.01	25	700	38	0.04	6	2	49	< 0.01	< 10	< 10	14	< 10	84
BB33836	94069407	0.31	525	< 1	0.01	27	550	38	0.02	6	2	34	< 0.01	< 10	< 10	12	< 10	82
BB33837	94069407	0.26	315	< 1	0.01	22	540	36	0.01	6	1	31	< 0.01	< 10	< 10	11	< 10	72
BB33838	94069407	0.37	445	< 1	0.01	28	650	38	0.01	6	3	27	< 0.01	< 10	< 10	12	< 10	92
BB33839	94069407	0.19	185	< 1	0.01	14	670	24	0.03	2	1	19	< 0.01	< 10	< 10	15	< 10	50
BB33840	94069407	0.14	195	< 1	0.01	9	610	26	0.03	2	< 1	27	0.01	< 10	< 10	20	< 10	38
BB33841	94069407	0.24	705	< 1	0.01	22	550	24	0.01	6	2	27	< 0.01	< 10	< 10	14	< 10	80
BB33842	94069407	0.17	1450	< 1	< 0.01	36	660	1455	0.01	8	4	20	< 0.01	< 10	< 10	7	10	718
BB33843	94069407	0.22	650	< 1	0.01	23	740	82	0.05	6	1	80	< 0.01	< 10	< 10	9	< 10	160
BB33844	94069407	0.39	330	< 1	0.01	25	440	26	0.01	6	1	40	< 0.01	< 10	< 10	11	< 10	84
BB33845	94069407	0.36	455	< 1	< 0.01	28	460	32	0.02	4	2	50	< 0.01	< 10	< 10	10	< 10	86
BB33846	94069407	0.32	375	< 1	0.01	23	420	20	0.04	4	1	70	< 0.01	< 10	< 10	9	< 10	68

CERTIFICATION:

Shia Wain

APPENDIX IV
ROCK SAMPLE DESCRIPTIONS

Rock Sample Descriptions

Project: HGJV

Property:

Page 1 of 5

Sample Number:	Grid North:	N	Grid East:	E	Type:	Dimension:	Au(ppb)	Ag(ppm)	As(ppm)	Bi(ppm)
BB33755	UTM: 6704274	N	UTM: 0563660	E	float	Get-size				
	Elevation: 1420	m			Sample Width: Grab	Abundance: rare	455	0.6	372	582
Comments: rusty wx, silicified QZTE breccia east of Cuz anomaly										

**

Sample Number:	Grid North:	N	Grid East:	E	Type:	Dimension:	Au(ppb)	Ag(ppm)	As(ppm)	Bi(ppm)
BB33780	UTM: 6703934	N	UTM: 0562476	E	bulk	0.0 → 1.75m				
	Elevation: 1556	m			Sample Width: 1.75m	Abundance: —	10	—	28	6
Comments: talus lens from bottom of 3.5m long, 1.2m deep hand trench (201-02) in recessive linear east of Cuz, sampled E to W.										

Sample Number:	Grid North:	N	Grid East:	E	Type:	Dimension:	Au(ppb)	Ag(ppm)	As(ppm)	Bi(ppm)
BB33781	UTM: 6703934	N	UTM: 0562476	E	bulk	1.75m → 5.50m				
	Elevation: 1556	m			Sample Width: 1.75m	Abundance: —	—	0.2	36	6
Comments: as above,										

Sample Number:	Grid North:	N	Grid East:	E	Type:	Dimension:	Au(ppb)	Ag(ppm)	As(ppm)	Bi(ppm)
P396001	UTM: —	N	UTM: —	E	chip	2.3m				
	Elevation: —	m			Sample Width: 0.0m-2.3m	Abundance: —	15	0.8	450	10
Comments: med. bedded quartzite to grit, v. minor patchy silicification with very minor oxide-filled pits 1.7-2.3m: brown stained greasy phyllite										

*

Sample Number:	Grid North:	N	Grid East:	E	Type:	Dimension:	Au(ppb)	Ag(ppm)	As(ppm)	Bi(ppm)
P396002	UTM: —	N	UTM: —	E	chip	3.9m				
	Elevation: —	m			Sample Width: 2.3m-6.2m	Abundance: —	—	0.4	736	10
Comments: 2.3m-5.1m: brown, med. bedded, med. grained quartzite, v. minor brown oxide-filled country, no silicification 5.1m-6.2m as above but sheared										

*

Sample Number:	Grid North:	N	Grid East:	E	Type:	Dimension:	Au(ppb)	Ag(ppm)	As(ppm)	Bi(ppm)
P396003	UTM: —	N	UTM: —	E	chip	3.7m				
	Elevation: —	m			Sample Width: 6.2m-9.9m	Abundance: —	10	0.2	588	10
Comments: patchy silicified, brecciated quartzite-grit - N-2 trending white qz veins shearing along trench axis - zones of silicification with coarse veins after PY										

*

Rock Sample Descriptions

Project: HGV Property: _____

Page 2 of 5

Sample Number:	Grid North:	N	Grid East:	E	Type:	chip	Dimension:	4.0m	Au(ppb)	Ag(ppm)	As(ppm)	Pb(ppm)
P396004	UTM: —	N	UTM: —	E	Sample Width:	0.0m-4.0m	Abundance:	—	15	0.2	520	4 *
Elevation: — m Trench 2001-02 - see report maps for location												
Comments: moderately fractured, weakly silicified quartzite; patchy but minor												
end joint 160 - strong silicification; oxide-coated E-W fractures (difficult to avoid bias)												
- strong but relatively wide-spaced N-S jointing												
P396005	UTM: —	N	UTM: —	E	Sample Width:	4.0m-7.5m	Abundance:	—	20	0.2	566	6 *
Elevation: — m Trench 01-02, as above												
Comments: - blocky fractured, weakly silicified quartzite, number of limonite-filled												
fractures increasing												
- some minor N-S dark qz hairline fracture-filling with gradational walls - in silicified QZTE												
P396006	UTM: —	N	UTM: —	E	Sample Width:	7.5m-11.8m	Abundance:	—	45	0.6	1390	42 **
Elevation: — m Trench 01-02, as above												
Comments: - sheared, brecciated quartzite, Li-rich fracture & breccia matrix												
- moderately silicified												
* - 11.0m - 12.3m - covered by ferricrete cap.												
P396007	UTM: —	N	UTM: —	E	Sample Width:	12.3m-13.0m	Abundance:	—	40	0.2	1950	10 **
Elevation: — m Trench 01-02, as above												
Comments: - very limonitic, anastomosing fractures in leached but not silicified QZTE												
- very well developed ferricrete cap												
P396008	UTM: —	N	UTM: —	E	Sample Width:	13.0m-16.6m	Abundance:	—	15	0.2	2170	6 **
Elevation: — m Trench 01-02, as above												
Comments: sheared, limonitic quartzite, good breccia texture with limonite breccia												
matrix and fracture-filling over ~25% of interval												
P396009	UTM: —	N	UTM: —	E	Sample Width:	16.6m-22.4m	Abundance:	—	—	0.2	1315	2 *
Elevation: — m Trench 01-02, as above												
Comments: weakly sheared QZTE, minor limonite-rich zones (breccias)												

Rock Sample Descriptions

Project: HGSV

Property: _____

Page 3 of 5

Sample Number:	Grid North:	N	Grid East:	E	Type:	Dimension:	Au(ppm)	Ag(ppm)	As(ppm)	Bi(ppm)
P396010	UTM: _____	N	UTM: _____	E	chip	3.7 m	20	0.2	2570	4 *
Comments:	Elevation: _____ m		Trench 2001-01, 02		See report maps for location					
					moderately brecciated, limonitic quartzite, moderately sheared					
P396011	UTM: _____	N	UTM: _____	E	chip	4.9 m	5	0.2	1290	12 *
Comments:	Elevation: _____ m		Trench 01-02, as above							
					v. minor limonitic shear zones, mostly well indurated quartzite with minor dissem. bonework after P4 or arsenopy					
P396012	UTM: 6707907	N	UTM: 0562943	E	grab	cabbage-size	220	1.0	710000	34 ***
Comments:	Elevation: 1174 m				Sample Width: _____	Abundance: several dozen pieces in road cut				
					- relatively abundant limonite float on road side, banded; oxidized silite?					
P396051	UTM: 6707647	N	UTM: 0563037	E	discontinuous chip	5 m	25	0.2	1400	6 *
Comments:	Elevation: 1166 m				Sample Width: _____	Abundance: _____				
					discontinuous, composite sample of talus chips over 5 m width sheared and rusty wx, partially silicified qz grit - below trenches 01-01, 02					
P396052	UTM: 6707580	N	UTM: 0562948	E	grab outcrop	fst	45	-	1235	6 *
Comments:	Elevation: _____ m				Sample Width: _____	Abundance: small o/c				
					weakly silicified quartzite, minor vuggy pits along partially qz-filled fractures, weakly rusty wx ~ 100 m west/sw of trenches 01-01, 02					
P396053	UTM: _____	N	UTM: _____	E	composite chip	fst	125	0.2	422	4 *
Comments:	Elevation: _____ m				Sample Width: _____	Abundance: small o/c				
					silicified breccia (?) outcrop, 10 m north of creek = Piglet 12-32 claim boundary as shown on 1990 map (no GPS signal here), composite chip sample of small outcrop ~ 200 m west/southwest of trenches 01-01, 02					

Rock Sample Descriptions

Project: HGSV

Property: _____

Page 4 of 5

Sample Number:	Grid North:	N	Grid East:	E	Type:	Dimension:	Au(ppb)	Ag(ppm)	As(ppm)	Bi(ppm)
P396054	UTM: 6703994	N	UTM: 0562615	E	Type: float	Dimension: fist				
	Elevation: 1534	m			Sample Width: —	Abundance: small area of float	25	1.8	694	2
Comments:	fractured quartzite with limonitic stockwork, east of Cuz									

Sample Number:	Grid North:	N	Grid East:	E	Type:	Dimension:	Au(ppb)	Ag(ppm)	As(ppm)	Bi(ppm)
P396055	UTM: 6703934	N	UTM: 0562476	E	Type: Grab	Dimension: fist				
	Elevation: 1556	m			Sample Width: —	Abundance: —	—	—	22	—
Comments:	random grab sample of quartzite/gneiss phyllite from walls of hand trench 1.2 m deep x 3.5 m long, trench in recessive linear east of Cuz anomaly									

Sample Number:	Grid North:	N	Grid East:	E	Type:	Dimension:	Au(ppb)	Ag(ppm)	As(ppm)	Bi(ppm)
P396056	UTM: 6703934	N	UTM: 0562476	E	Type: Grab	Dimension: fist				
	Elevation: 1556	m			Sample Width: —	Abundance: —	—	—	18	4
Comments:	as above									

Sample Number:	Grid North:	N	Grid East:	E	Type:	Dimension:	Au(ppb)	Ag(ppm)	As(ppm)	Bi(ppm)
P396057	UTM: 6703934	N	UTM: 0562476	E	Type: Grab	Dimension: fist				
	Elevation: 1556	m			Sample Width: —	Abundance: —	—	—	24	4
Comments:	as above									

Sample Number:	Grid North:	N	Grid East:	E	Type:	Dimension:	Au(ppb)	Ag(ppm)	As(ppm)	Bi(ppm)
P396058	UTM: 6703934	N	UTM: 0562476	E	Type: Grab	Dimension: fist				
	Elevation: 1556	m			Sample Width: —	Abundance: —	—	—	22	—
Comments:	as above									

Sample Number:	Grid North:	N	Grid East:	E	Type:	Dimension:	Au(ppb)	Ag(ppm)	As(ppm)	Bi(ppm)
P396059	UTM: 6703934	N	UTM: 0562476	E	Type: Grab	Dimension: fist				
	Elevation: 1556	m			Sample Width: —	Abundance: —	10	—	86	6
Comments:	as above									

Rock Sample Descriptions

Project:

HGSV

Property:

Page 5 of 5

Sample Number: P396060 Grid North: — N Grid East: — E Type: Grab Dimension: fist
UTM: 6703934 N UTM: 0562476 E Sample Width: — Abundance: —
Elevation: 1556 m
Comments: as above

As(cob) As(ppm) As(ppm) Bi(ppm)
— — 14 —

Sample Number: P396061 Grid North: — N Grid East: — E Type: grab Dimension: fist-sized
UTM: 6710415 N UTM: 0563057 E Sample Width: — Abundance: rare
Elevation: 932 m
Comments: rusty qz vein float, angular; on shore of Quartz Lake west of camp

— — — —
— — 286 —

Sample Number: P396062 Grid North: — N Grid East: — E Type: — Dimension: —
UTM: — N UTM: — E Sample Width: — Abundance: —
Elevation: — m
Comments: rusty qz vein float, angular; ~ 15m east along Quartz Lake beach

— — — —
15 — 464 —

Sample Number: — Grid North: — N Grid East: — E Type: — Dimension: —
UTM: — N UTM: — E Sample Width: — Abundance: —
Elevation: — m
Comments: —

— — — —
— — — —

Sample Number: — Grid North: — N Grid East: — E Type: — Dimension: —
UTM: — N UTM: — E Sample Width: — Abundance: —
Elevation: — m
Comments: —

— — — —
— — — —

Sample Number: — Grid North: — N Grid East: — E Type: — Dimension: —
UTM: — N UTM: — E Sample Width: — Abundance: —
Elevation: — m
Comments: —

— — — —
— — — —

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

1016 - 510 West Hastings Street

Vancouver, B.C. V6B 1L8

Telephone: 604-688-2568

Fax: 604-688-2578

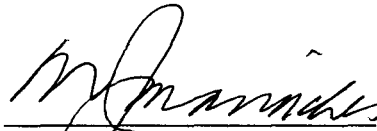
094296

AFFIDAVIT

I, Joan Mariacher, of VANCOUVER, B.C. make oath and say:

That to the best of my knowledge the attached Statement of

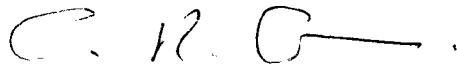
Expenditures for exploration work on the BOAR 13-14, 25 & 27, P16 LET 6-10, 12, 30 & 32,
HL 42 & 44, VER 66, 103, 109, 147, 149, 171 & 172
mineral claims on Claim Sheet 950/5 & 12 is accurate.


Joan Mariacher

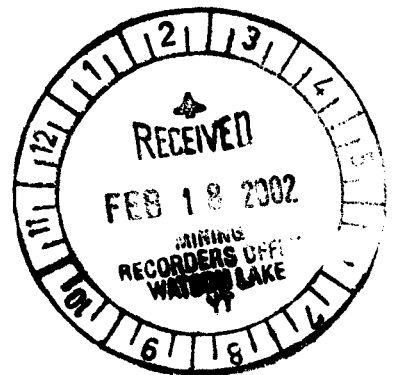
Sworn before me at VANCOUVER, B.C.

this 11TH day of

FEBRUARY, 2002



Notary, Yukon Territory



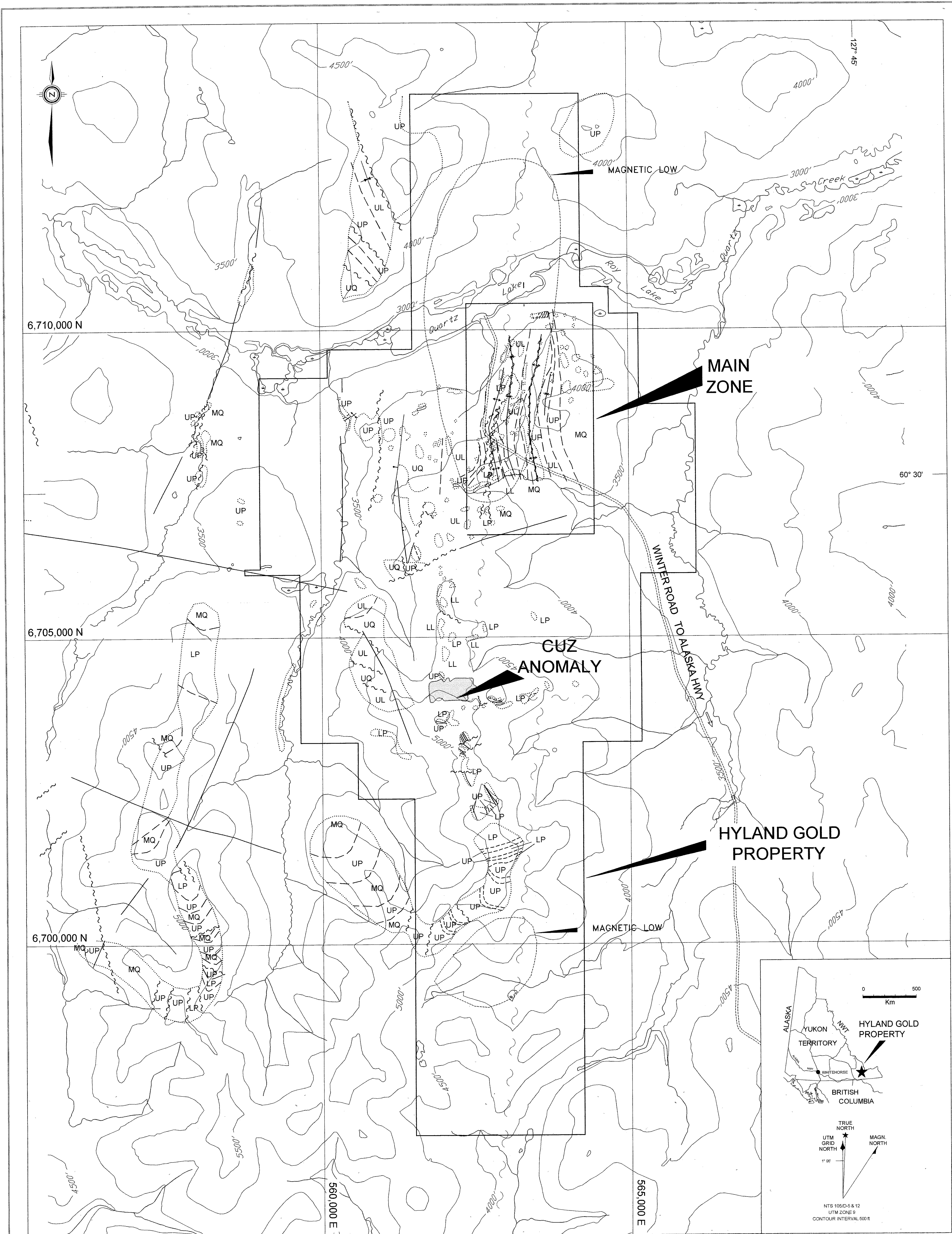
Statement of Expenditures
Boar 13-14,25 & 27, HL 42 & 44, Piglet 6-10,12,30 & 32,
and Ver 66,103,109,147,149,171 & 172
February 11, 2002

Labour

A. Archer – geologist - 35 hours August 2001 – January 2002 at \$66/hr	\$ 2,471.70
R. Carne – geologist – 292 hours August 2001 – January 2002 at \$60/hr	18,746.40
R. Moar – field assistant – 13 days August – September 2001 at \$320/day	4,451.20
J. Mariacher – 62 ½ hours August 2001 – February 2002 at \$44.45/hr	<u>2,972.59</u>
	28,641.89

Expenses

Field room and board – 29 ¾ days at \$115/day	3,660.74
Northern Rockies – fixed wing	2,118.60
Trans North Helicopter – 2.4 hours Bell 206B at \$775/hr plus fuel	2,239.04
ALS Chemex Labs	2,163.34
Truck rental (Norcan) plus fuel	428.62
Freight – Byers and Greyhound	85.25
Drafting	<u>555.00</u>
	11,250.59
	<u>\$39,892.48</u>



LEGEND

CAMBRIAN-HADRYNIAN

- UQ Upper Quartzite grey and buff orthoquartzite interbedded with phyllitic siltstone and phyllite
- UL Upper Limestone shaly and gritty limestone often with phyllic partings, occasional jasperoid, massive sulphides or siderite replacement bodies and a band of phyllite with interbedded quartzite in the lower part of the unit
- UP Upper Phyllite silver-grey, green and black phyllite with quartzite beds
- MQ Main Quartzite grey to buff orthoquartzites with lithic and calcareous quartzites
- LL Lower Limestone platy, silty, commonly recrystallized limestone with occasional jasperoid, massive sulphide or siderite replacement along lower contact
- LP Lower Phyllite interbedded silt and sand beds, quartz-feldspar grit and quartz-feldspar conglomerate, locally calcareous beds have been replaced by jasperoid containing disseminated pyrite and arsenopyrite

- main topographic linear
- airphoto linear
- fault
- geological contact
- syncline axis
- anticline
- outcrop

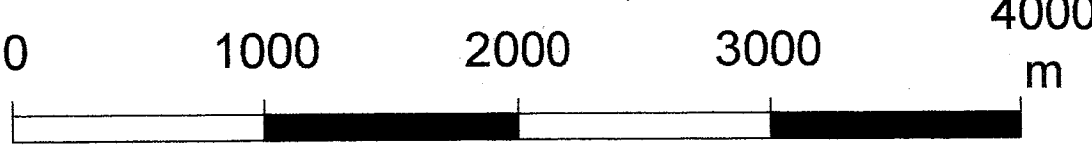
HYLAND GOLD JOINT VENTURE

FIGURE 5

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY GEOLOGY

SCALE 1:30,000

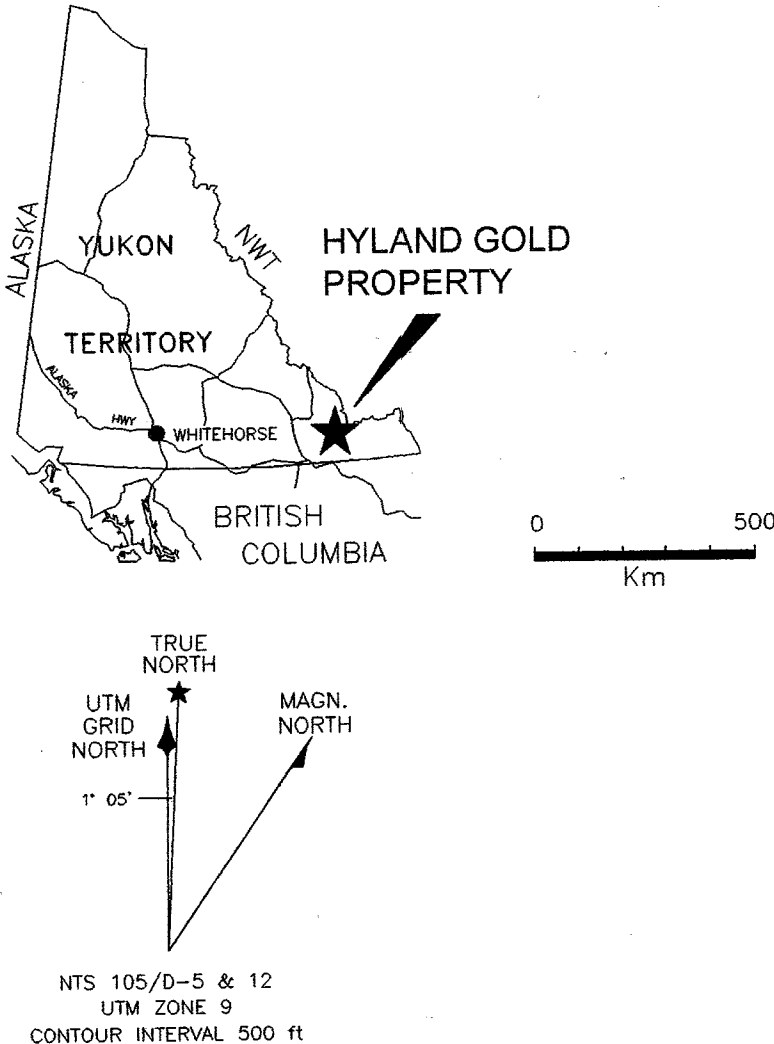
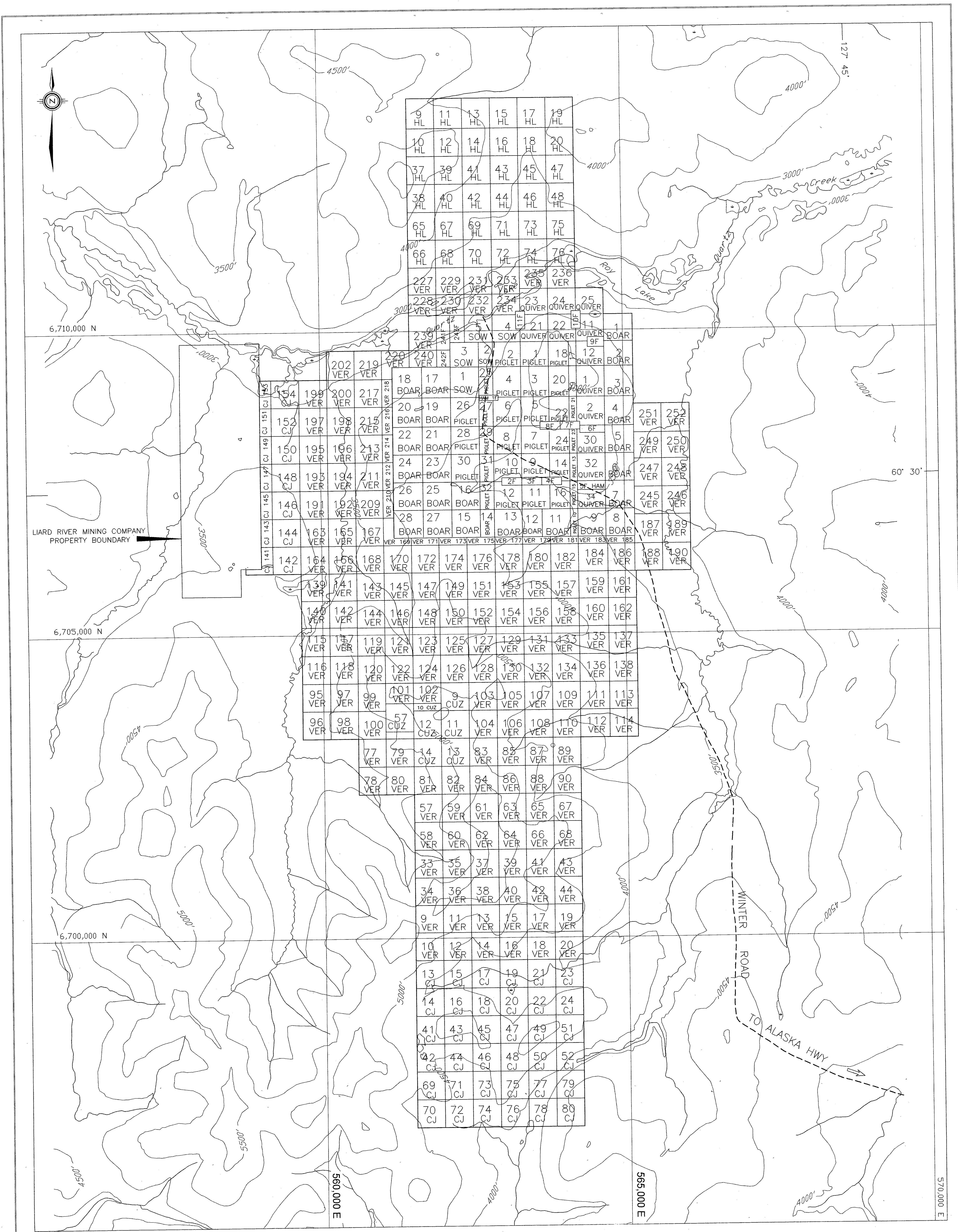


DRAWN/REVISED BY: AG/RCC

PROJECT: HGJV

FILE: 2001 30k geol

DATE: February, 2002



HYLAND GOLD JOINT VENTURE

FIGURE 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CLAIM LOCATION

094206

094206

SCALE 1:30,000

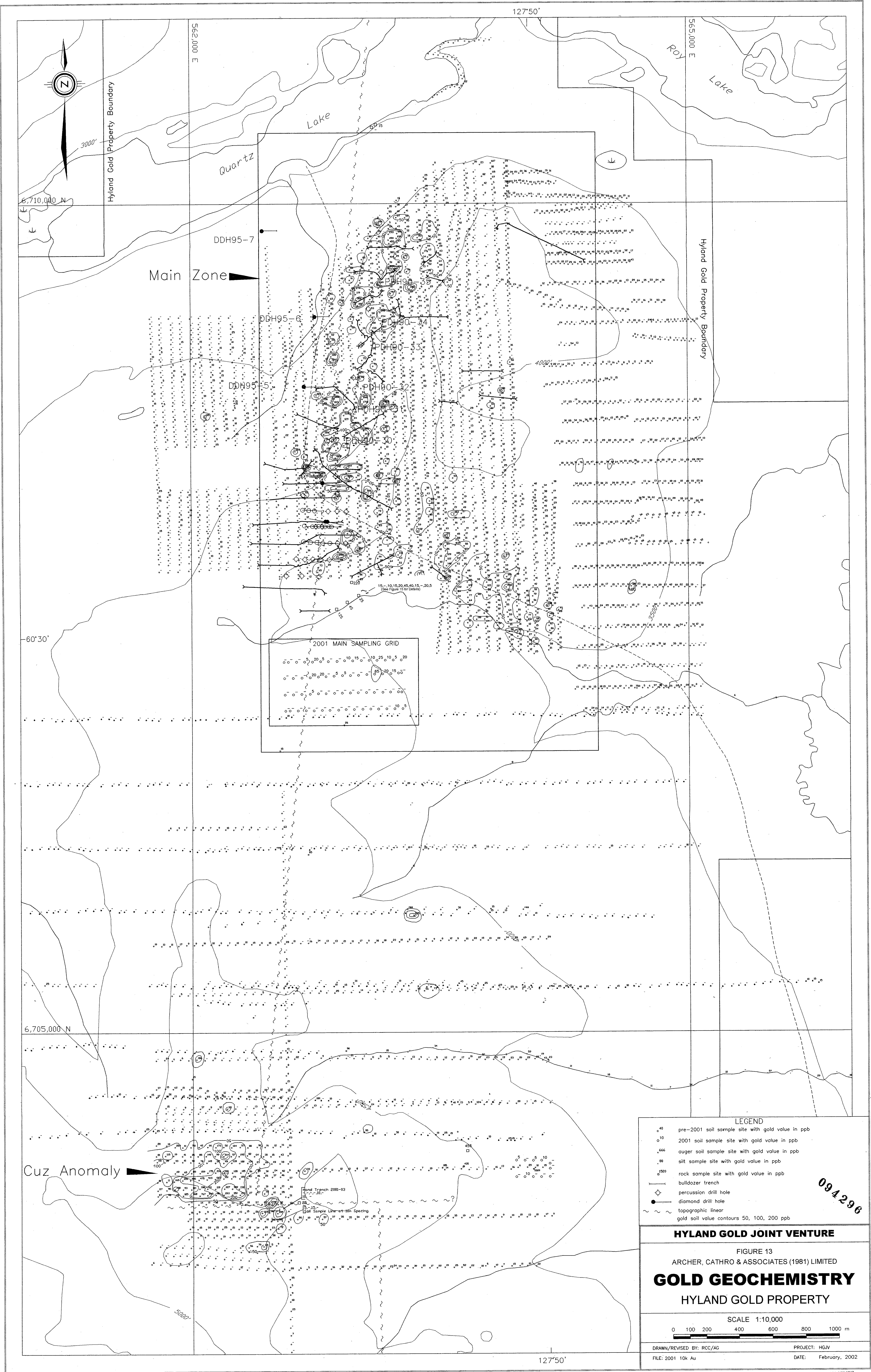
0 1000 2000 3000 4000 m

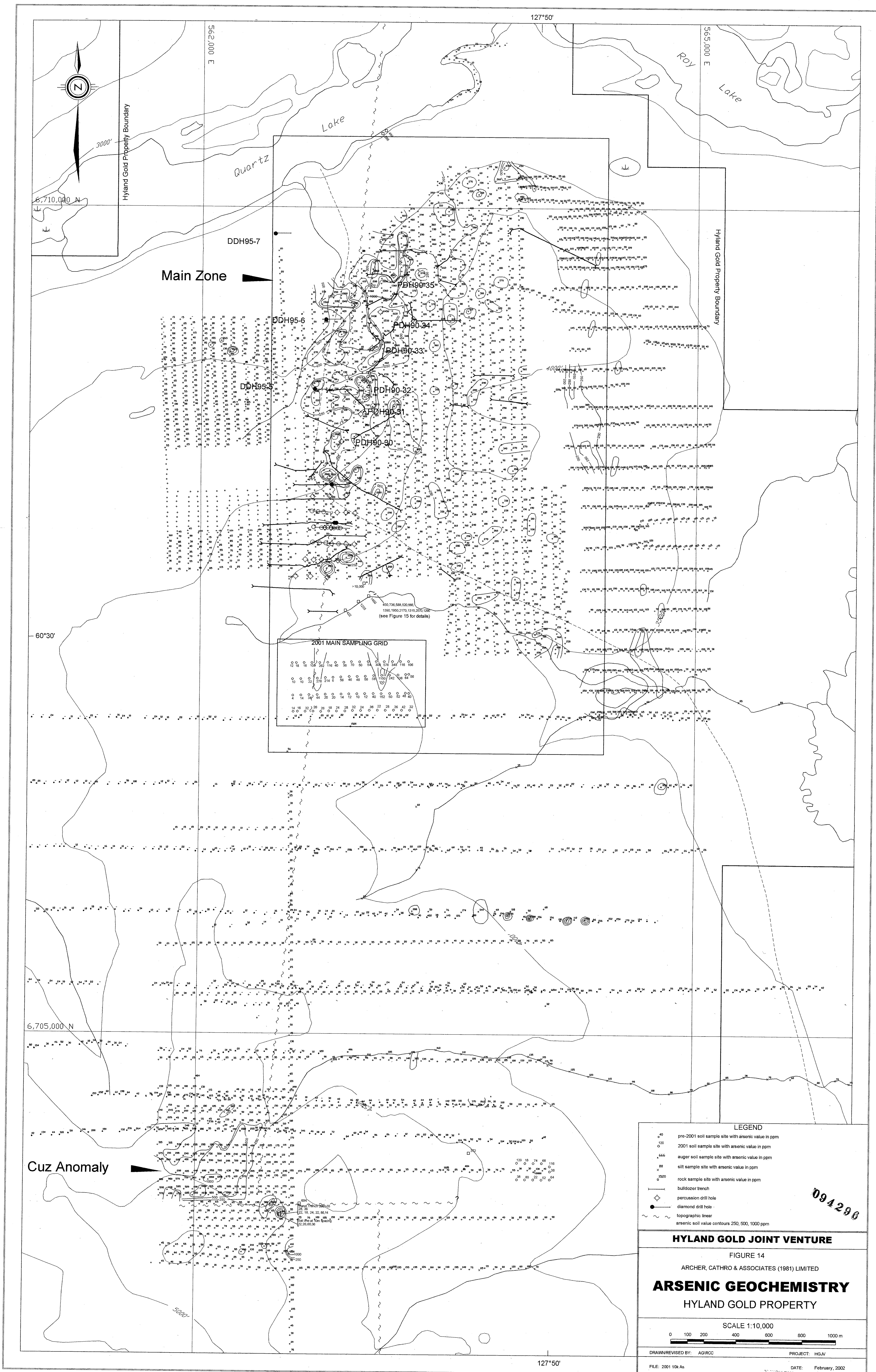
DRAWN/REVISED BY: AG/RCC

PROJECT: HGJV

FILE: 2001 30k claims

DATE: February, 2002





094296

LEGEND

- 40 pre-2001 soil sample site with arsenic value in ppm
- 100 2001 soil sample site with arsenic value in ppm
- 666 auger soil sample site with arsenic value in ppm
- 80 silt sample site with arsenic value in ppm
- 1200 rock sample site with arsenic value in ppm
- bulldozer trench
- percussion drill hole
- diamond drill hole
- topographic linear
- arsenic soil value contours 250, 500, 1000 ppm

HYLAND GOLD JOINT VENTURE

FIGURE 14

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ARSENIC GEOCHEMISTRY

HYLAND GOLD PROPERTY

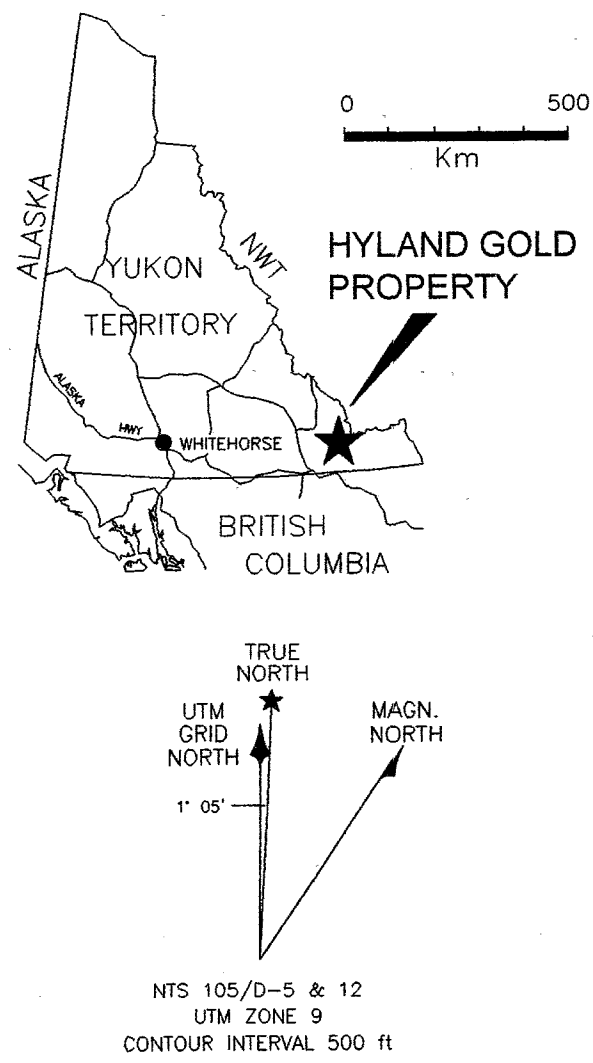
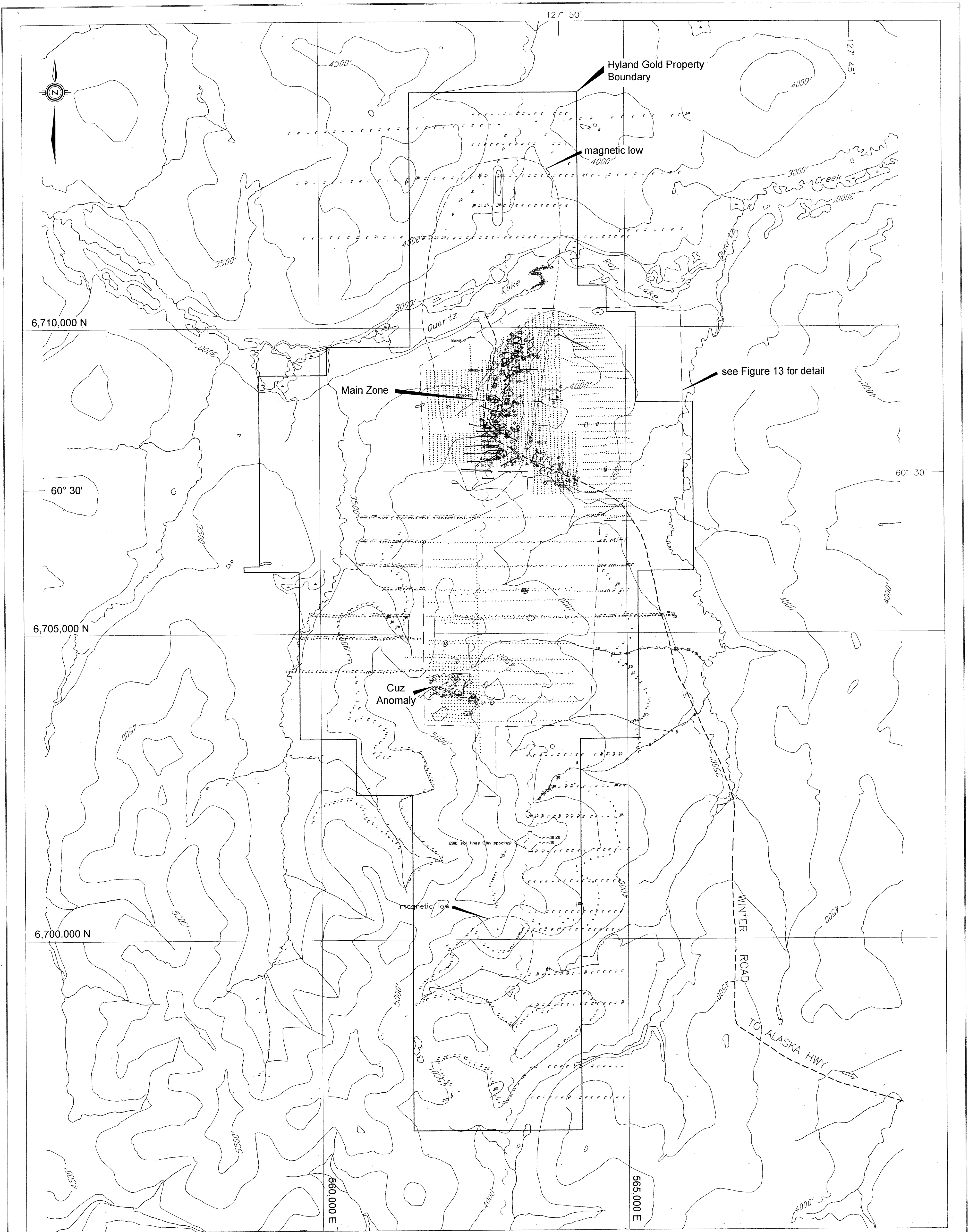
SCALE 1:10,000

0 100 200 400 600 800 1000 m

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FILE: 2001 10k As DATE: February, 2002

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Whitehorse, Yukon Y1A 2C8



LEGEND

- topographic linear
- percussion drill hole
- diamond drill hole
- bulldozer trench
- soil sample site with gold value in ppb
- silt sample site with gold value in ppb
- rock sample site with gold value in ppb
- gold soil value contours 50, 100, 200 ppb

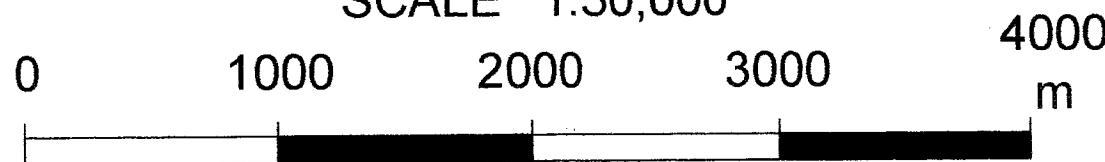
HYLAND GOLD JOINT VENTURE

FIGURE 11

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GOLD GEOCHEMISTRY

SCALE 1:30,000



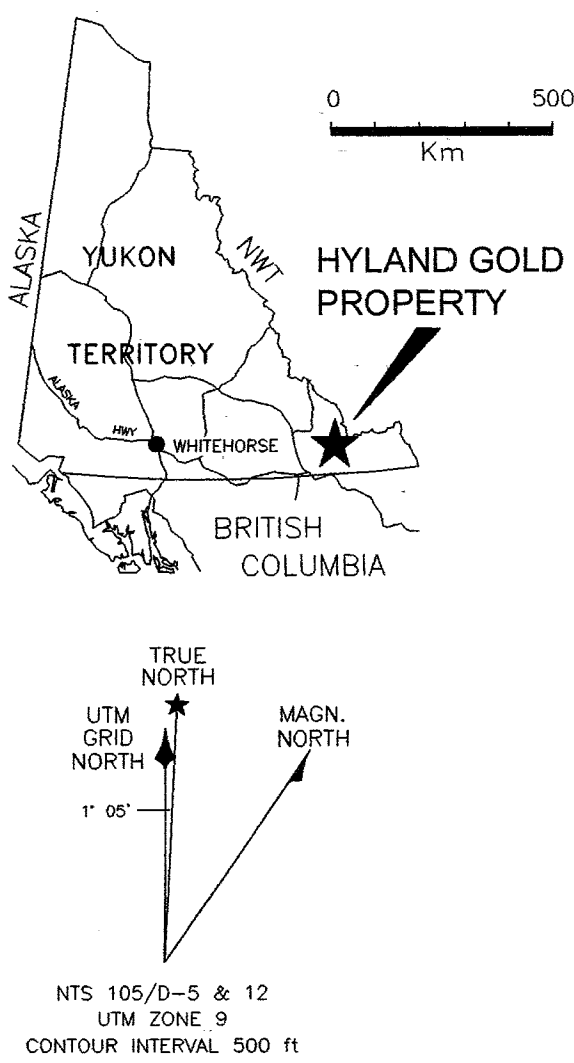
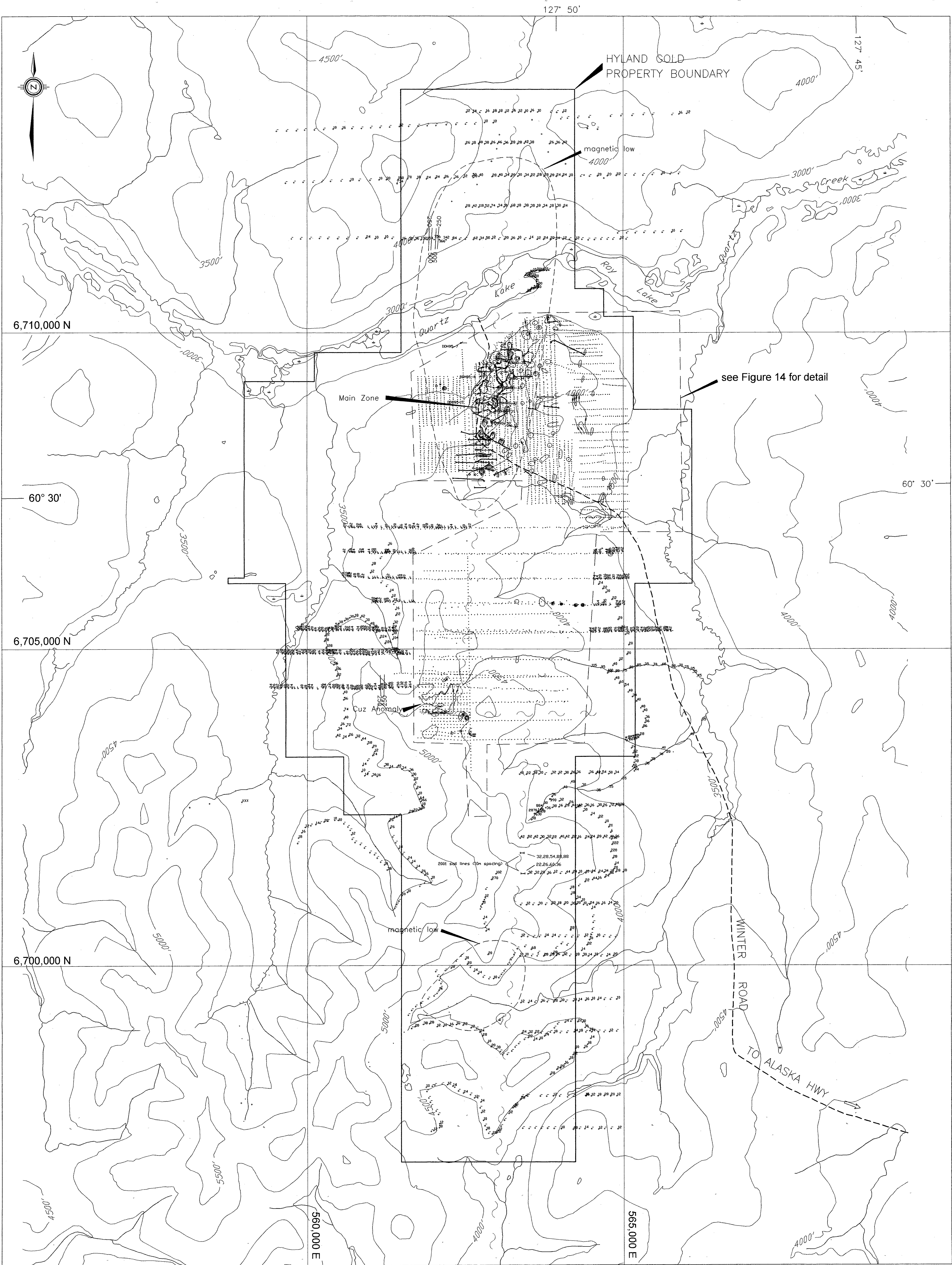
DRAWN/REVISED BY: AG/RCC

PROJECT: HGJV

FILE:

DATE:

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& RESOURCES LIBRARY
P.O. Box 2703
Whitehorse, Yukon Y1A 2C8

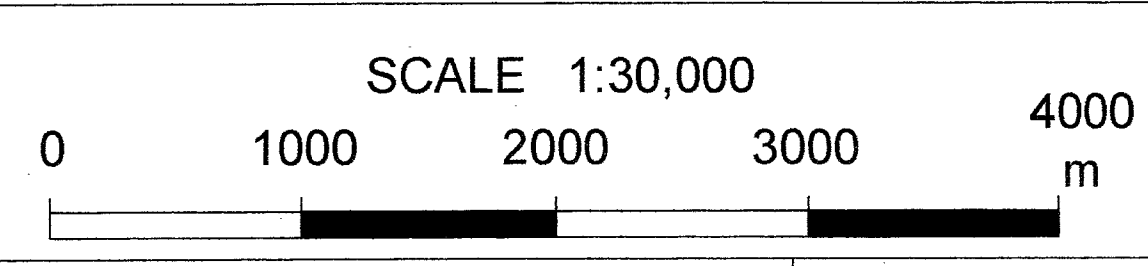


- LEGEND
- topographic linear
 - percussion drill hole
 - diamond drill hole
 - bulldozer trench
 - soil sample site with arsenic value in ppm
 - silt sample site with arsenic value in ppm
 - rock sample site with arsenic value in ppm
 - arsenic soil value contours 250, 500, 1000 ppm

HYLAND GOLD JOINT VENTURE

FIGURE 12
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ARSENIC GEOCHEMISTRY



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FILE: 2001 30k As	DATE: February, 2002

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