Blackstone Resources Inc.

1997 DRILLING PROGRAM ON THE REIN PROPERTY

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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December 1997

1997 DRILLING PROGRAM ON THE REIN PROPERTY

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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.

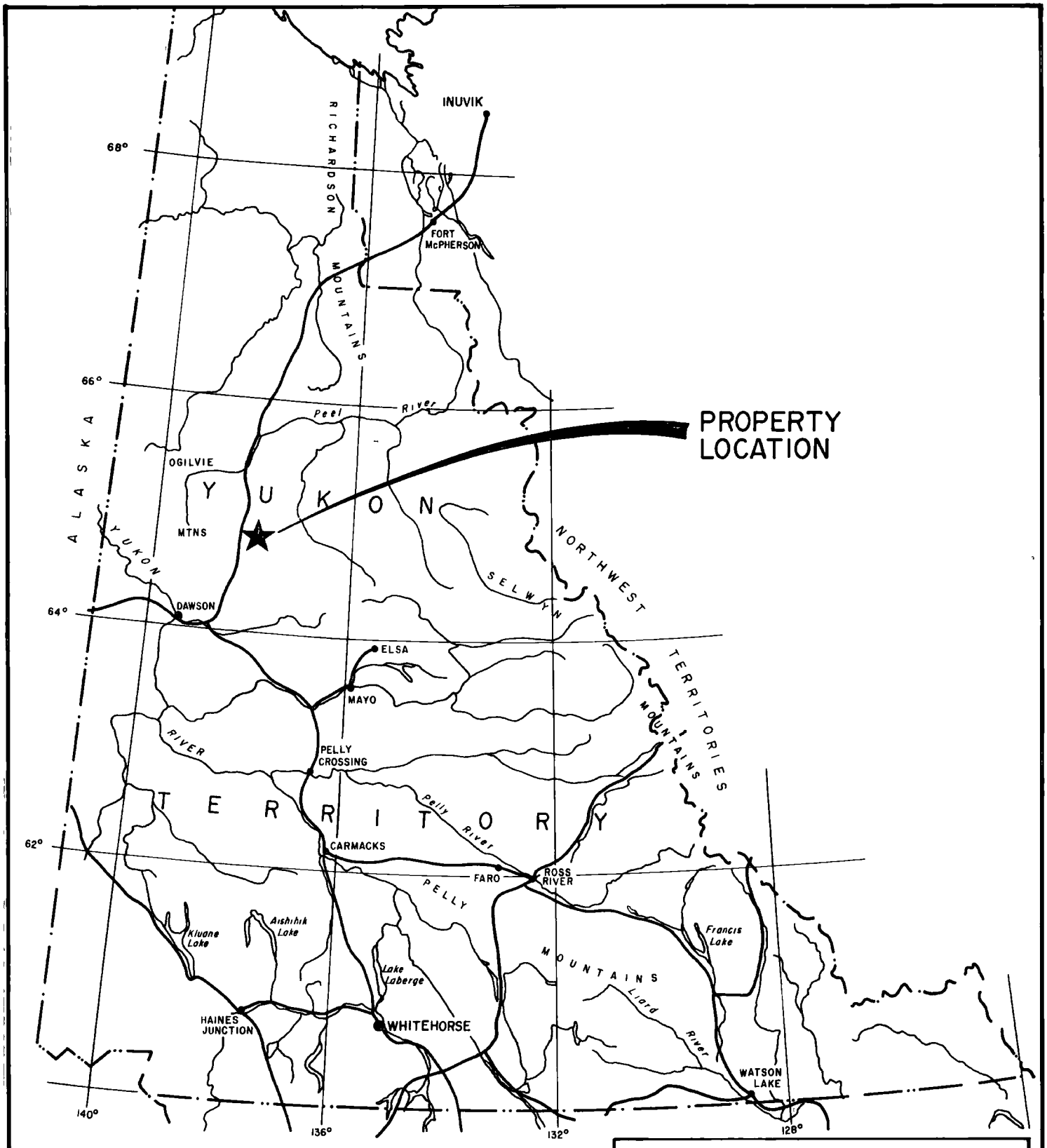
In August and September of 1997, Blackstone Resources Inc. conducted an exploration program on the Rein property consisting primarily of diamond drilling. Minor reconnaissance work was completed at the TB grid. This work was completed by Equity Engineering Ltd. which has also been retained to report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

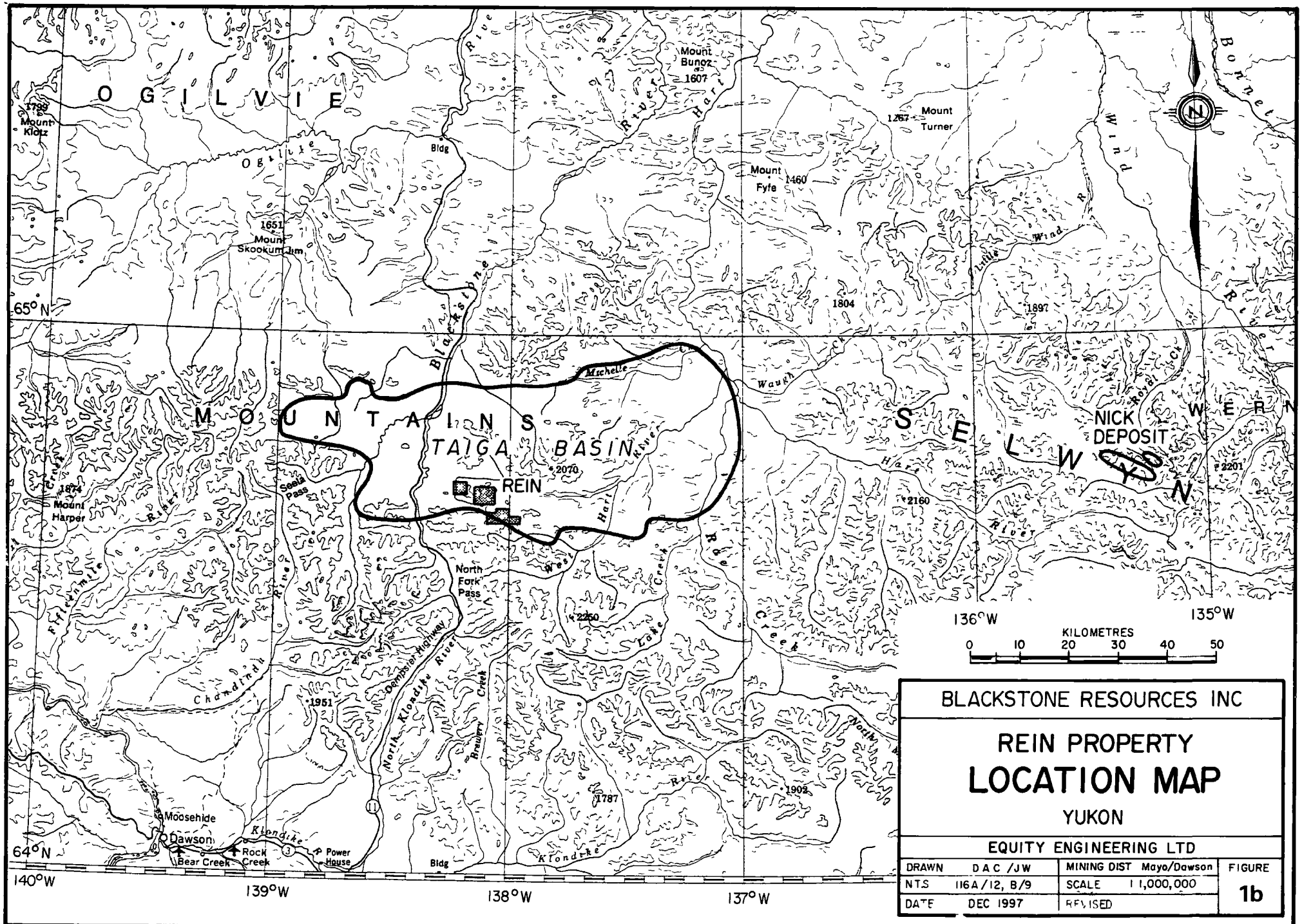


BLACKSTONE RESOURCES INC

REIN PROPERTY
PROPERTY LOCATION MAP
YUKON

EQUITY ENGINEERING LTD

DRAWN	JW/DAC	MINING DIST Mayo/Dawson	FIGURE
NTS	116A/12, B/9	SCALE 1:5,000,000	1a
DATE	DEC 1997	REVISED	



BLACKSTONE RESOURCES INC

REIN PROPERTY
LOCATION MAP
YUKON

EQUITY ENGINEERING LTD

DRAWN	DAC /JW	MINING DIST Mayo/Dawson	FIGURE 1b
NTS	116A/12, B/9	SCALE 1:1,000,000	
DATE	DEC 1997	REVISED	

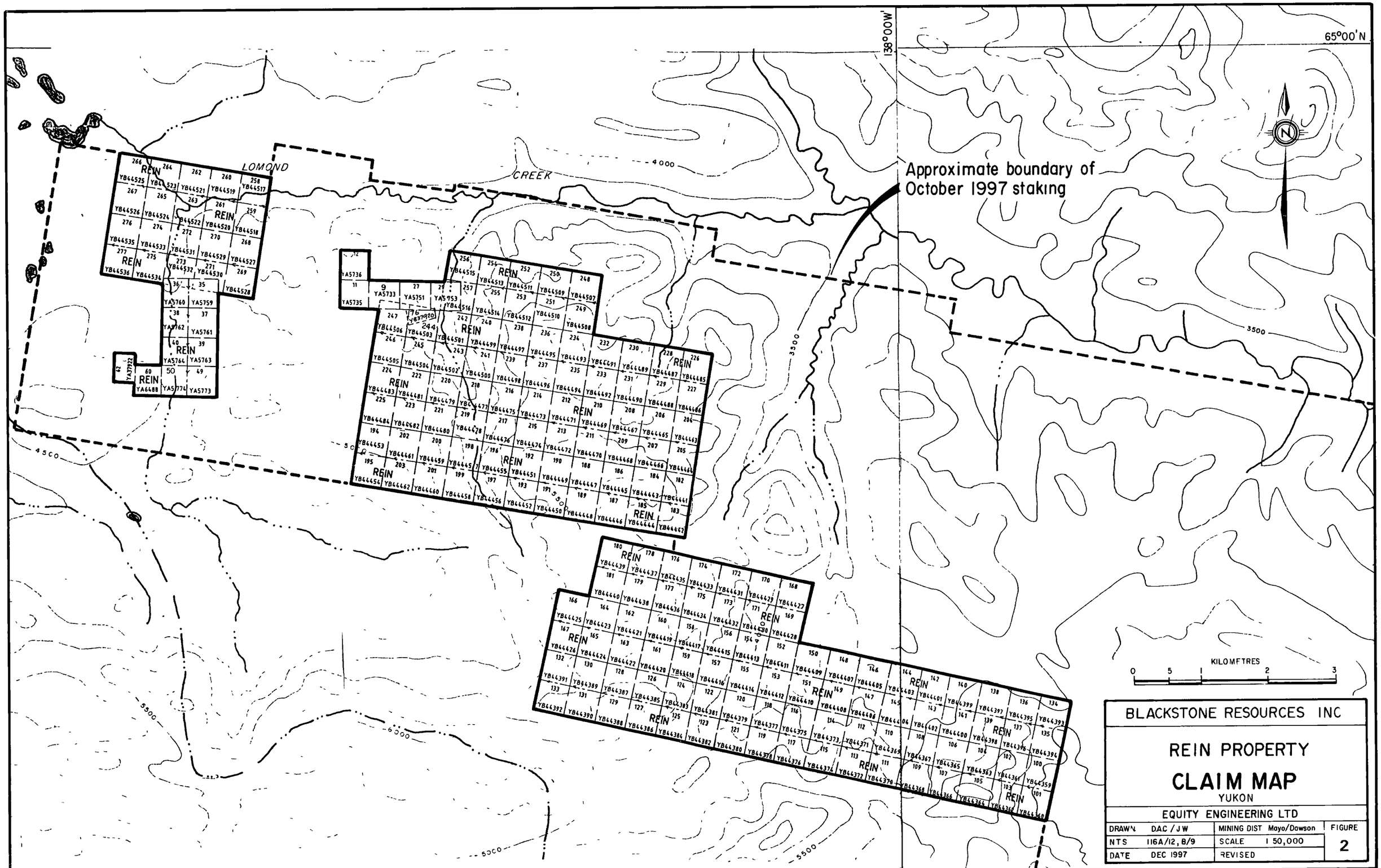

138°00'W
65°00'N
LOMOND
CREEK
4000
3500
5000
4500
5500
Approximate boundary of
October 1997 staking
N
REIN
KILOMETRES
0 5 1 2 3
BLACKSTONE RESOURCES INC
REIN PROPERTY
CLAIM MAP
YUKON
EQUITY ENGINEERING LTD
DRAWN DAC / JW
MINING DIST Mayo/Dawson
FIGURE
NTS 116A/12, 8/9
SCALE 1 50,000
2
DATE DEC 1997
REVISED

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 km^2 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 platformal 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

TAIGA SHALE BASIN

REIN

LEGEND

LITHOLOGIES

QUATERNARY

26 Unconsolidated glacial and alluvial deposits

PERMIAN

15 *Tahkandit Formation* Chert, cherty limestone and limestone

MISSISSIPPIAN TO PERMIAN

14 Thin- to medium-bedded limestone; minor black shale, chert and chert pebble conglomerate

MIDDLE DEVONIAN TO MISSISSIPPIAN

13 *Earn Group* Black shale, argillite, slate, platy limestone, chert; minor chert pebble conglomerate and quartzite

ORDOVICIAN AND SILURIAN

9 *Road River Formation* Interbedded black chert and black argillite; minor grey-green chert, grey-green argillite, quartzite and chert pebble conglomerate.

8 Dolomite and limestone, mostly medium- to thick-bedded; minor platy black argillaceous limestone and dolomite

CAMBRIAN(?) TO DEVONIAN(?)

4 Mafic volcanic breccia, tuff and agglomerate; minor interbedded shale, chert, siltstone and limestone

LATE PROTEROZOIC TO EARLY CAMBRIAN

3 *Hyland Group* Gritty quartzite, sandstone and quartz-pebble conglomerate; shales and slates; schistose quartzite, quartz-chlorite schist, quartz-mica schist and phyllite; minor limestone and black chert

MIDDLE PROTEROZOIC

WERNECKE SUPERGROUP

2 *Gillespie Lake Group* Platy, grey-green dolomite, dark slate; minor phyllite and quartzite

1 *Quartet Group* Thin-bedded argillite, slate and phyllite; minor quartzite, dolomite and conglomerate

Geology adapted from Green (1972).

SYMBOLS

* Blackstone JV Zn silt geochemical anomaly with follow-up investigation

KILOMETRES 0 5 10 15

BLACKSTONE RESOURCES INC.			
REIN PROPERTY REGIONAL GEOLOGY YUKON			
EQUITY ENGINEERING LTD.			
DRAWN: J.W. / D.A.C.		MINING DISTRICT: MAYO	FIGURE 3
NTS: 116B/9		SCALE: 1:250,000	
DATE: DEC. 1997		REVISED:	

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 Devono-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

DLEl (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, stylolina 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 DLEl 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 DLEl, 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, DLEl 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, DLEl and DLEu

	ORsh	DLEl	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 DLEl 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 DLEl over more competent unit DLEu. This has resulted in as many as ten repetitions of the favourable DLEl-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 DLEl, (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 ($Ni_3(AsO_4)$ $8H_2O$), 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 DLEl 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 DLEl. 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

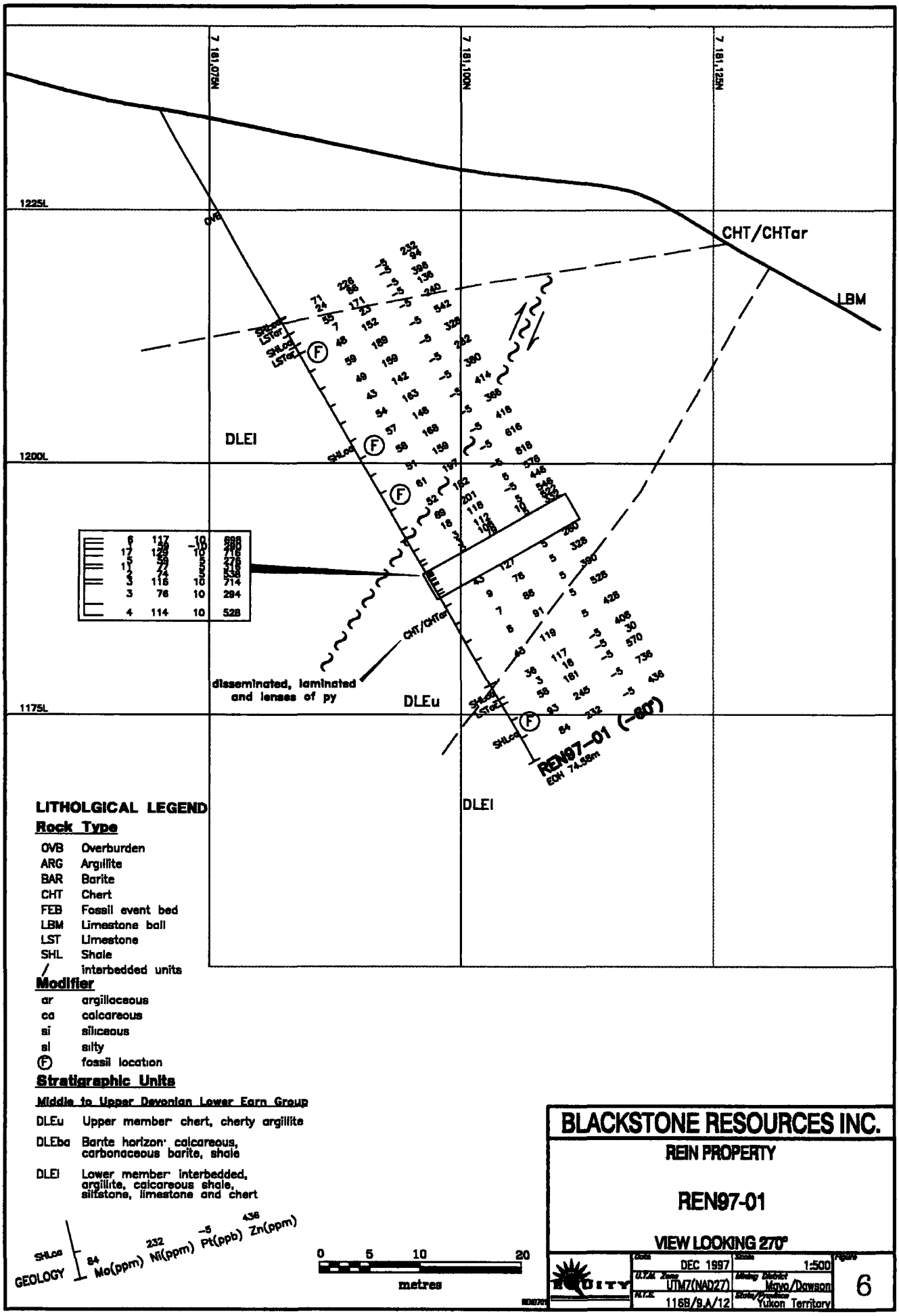
8.1 TB Grid

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 DLEl 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 DLEl 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 DLEl 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



LITHOLGICAL 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

SHLcs / GEOLOGY
84 Mo(ppm) 232 Ni(ppm) -5 Pt(ppb) 436 Zn(ppm)

0 5 10 20
metres

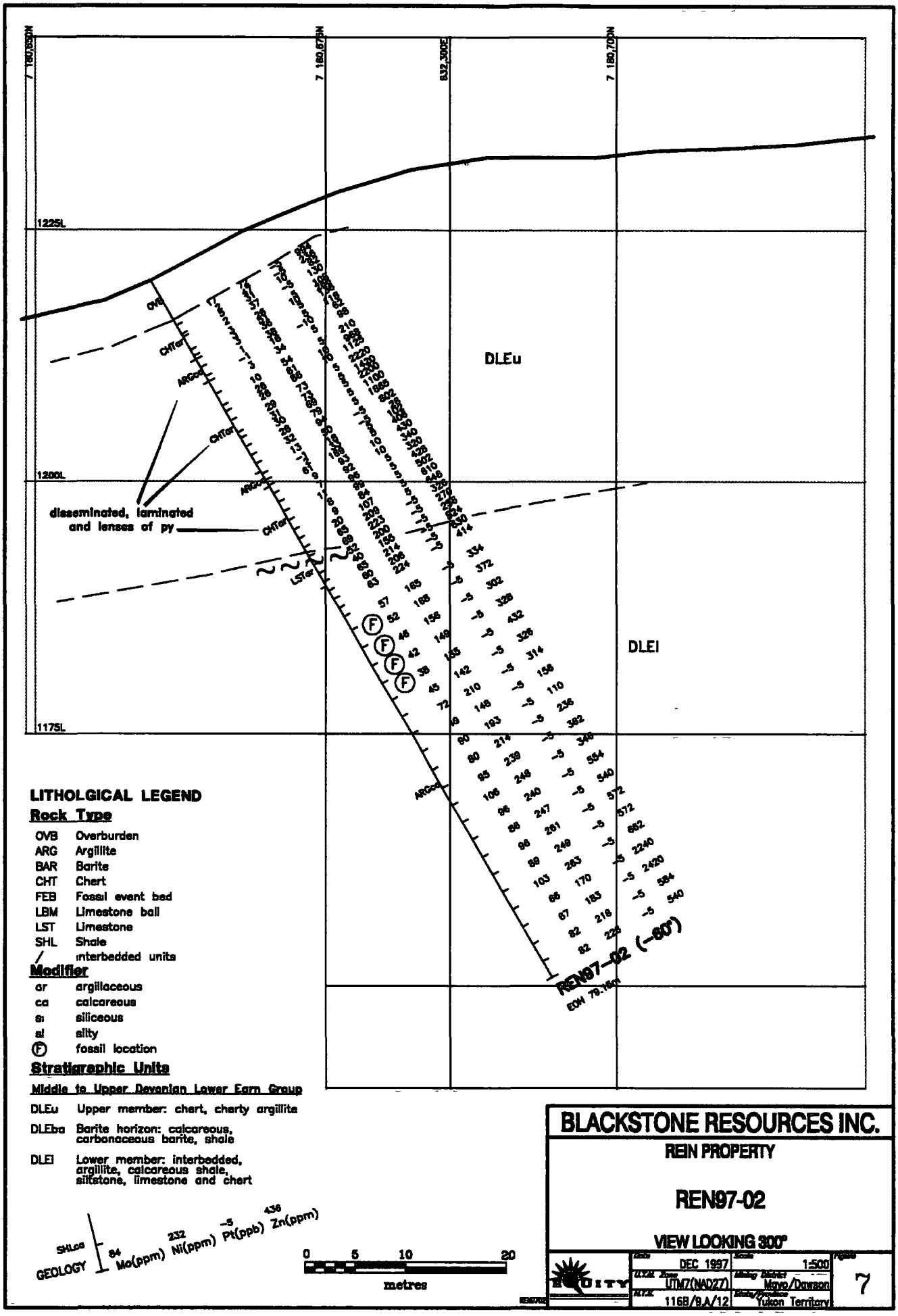
BLACKSTONE RESOURCES INC.

REIN PROPERTY

REN97-01

VIEW LOOKING 270°

Date: DEC 1997	Scale: 1:500	Figure: 6
UTM Zone: UTM7(NAD27)	Mining District: Mayo/Dawson	
NTS: 116B/9,A/12	Province: Yukon Territory	



LITHOLGICAL 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

SHLca / GEOLOGY | 84 Mo(ppm) | 232 Ni(ppm) | -5 Pt(ppb) | 436 Zn(ppm)

BLACKSTONE RESOURCES INC.

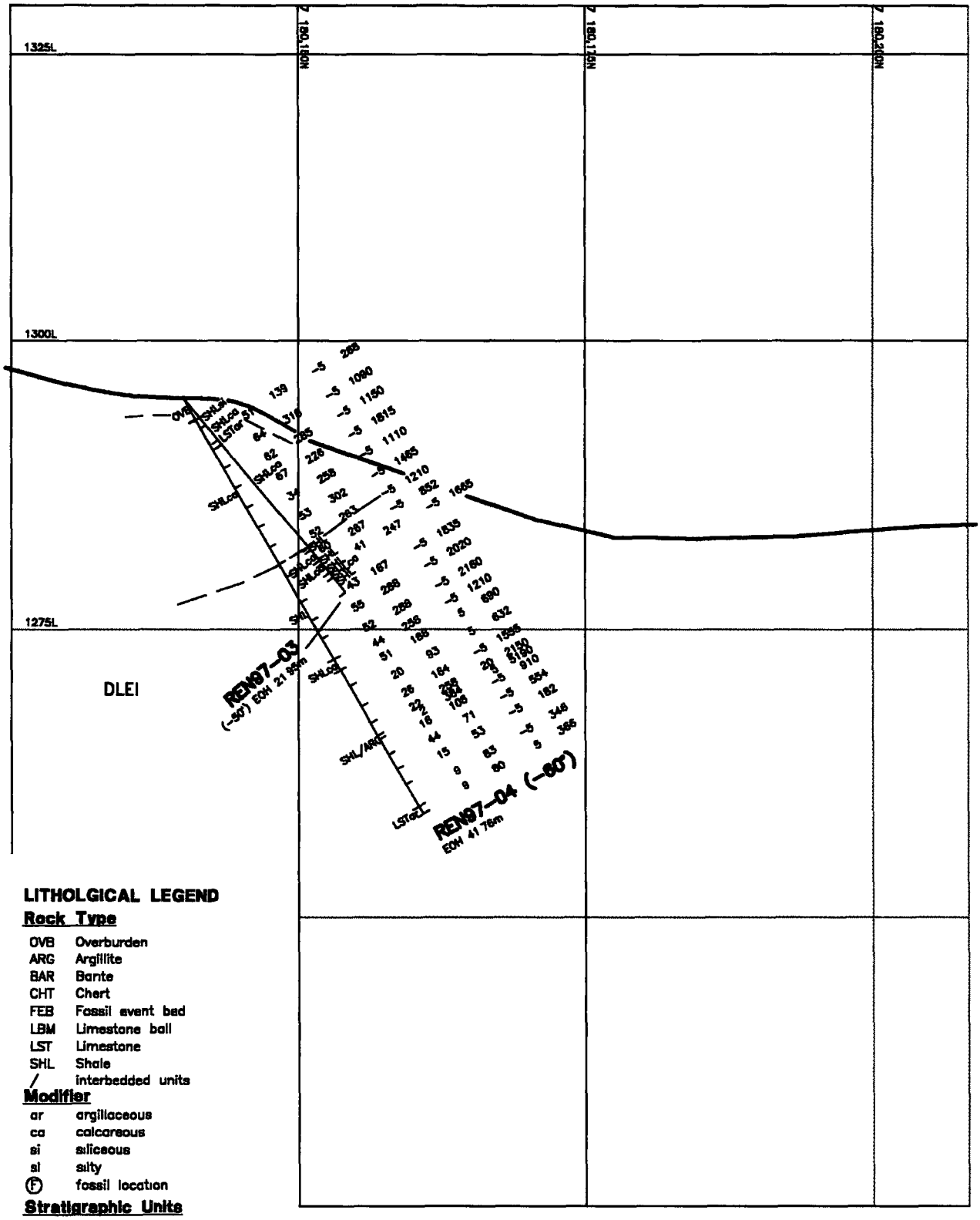
REIN PROPERTY

REN97-02

VIEW LOOKING 300°

Date	DEC 1997	Scale	1:500
UTM Zone	UTM7(NAD27)	Mining District	Mayo/Dawson
NTS	116B/9A/12	Province	Yukon Territory

Figure 7



LITHOLGICAL 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
DLEl	Lower member: interbedded, argillite, calcareous shale, siltstone, limestone and chert

BLACKSTONE RESOURCES INC.

REIN PROPERTY

REN97-03, -04

VIEW LOOKING 270°

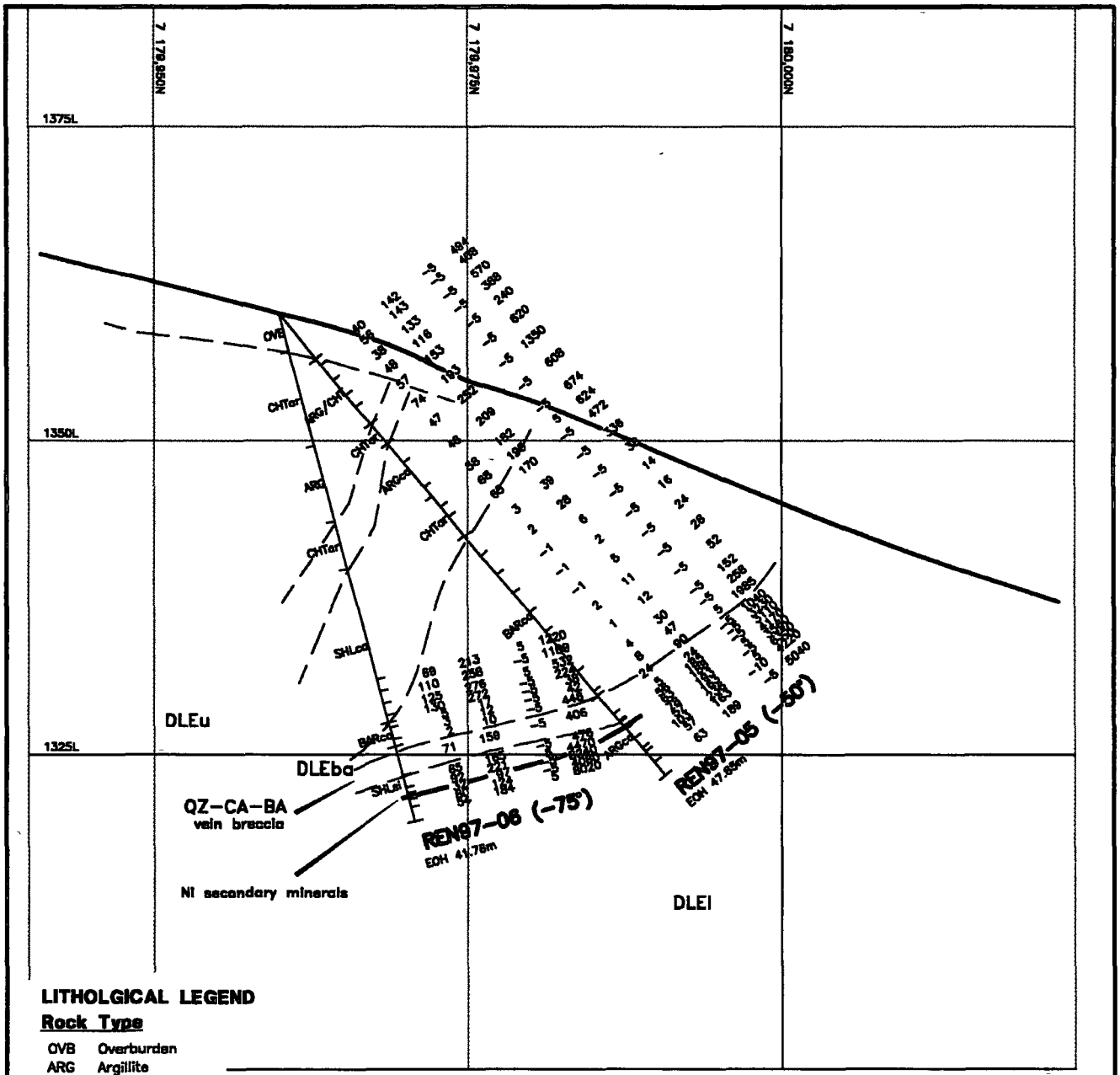
EQUITY

Date: DEC 1997 | Scale: 1:500

UTM Zone: UTM7(NAD27) | Mining District: Mayo/Dawson

NTS: 116B/9,A/12 | Province: Yukon Territory

Figure: 8



LITHOLGICAL 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
DLEl	Lower member: interbedded, argillite, calcareous shale, siltstone, limestone and chert

GEOLOGY / SHLca — 84 Mo(ppm) — 232 Ni(ppm) — -5 Pt(ppb) — 436 Zn(ppm)

0 5 10 20
metres

BLACKSTONE RESOURCES INC.

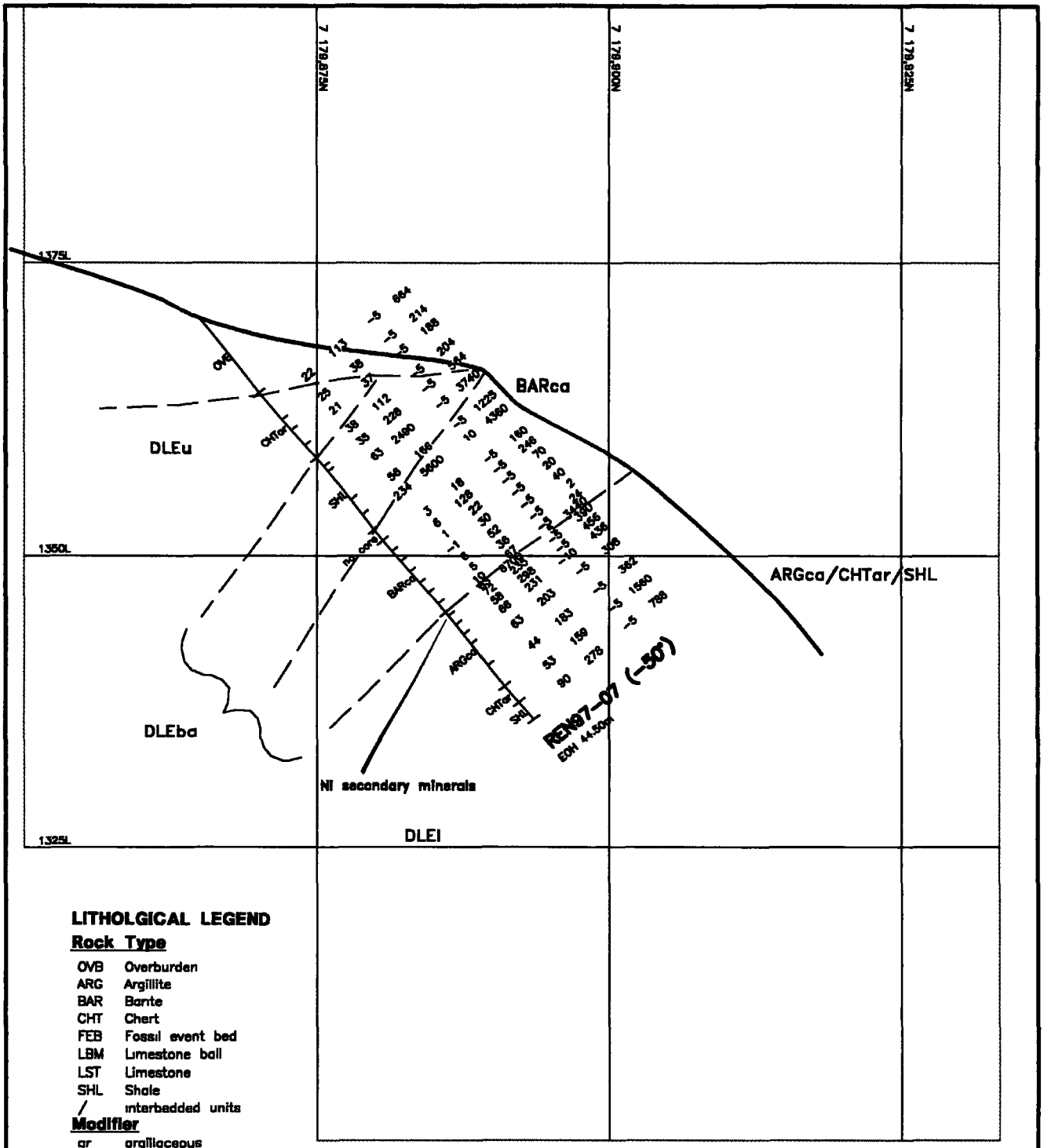
REIN PROPERTY

REN97-05, -06

VIEW LOOKING 270°

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

Figure 9



LITHOLGICAL 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

SHLca
GEOLOGY | 84 Mo(ppm) | 232 Ni(ppm) | -5 Pt(ppb) | 438 Zn(ppm)

0 5 10 20
metres

BLACKSTONE RESOURCES INC.

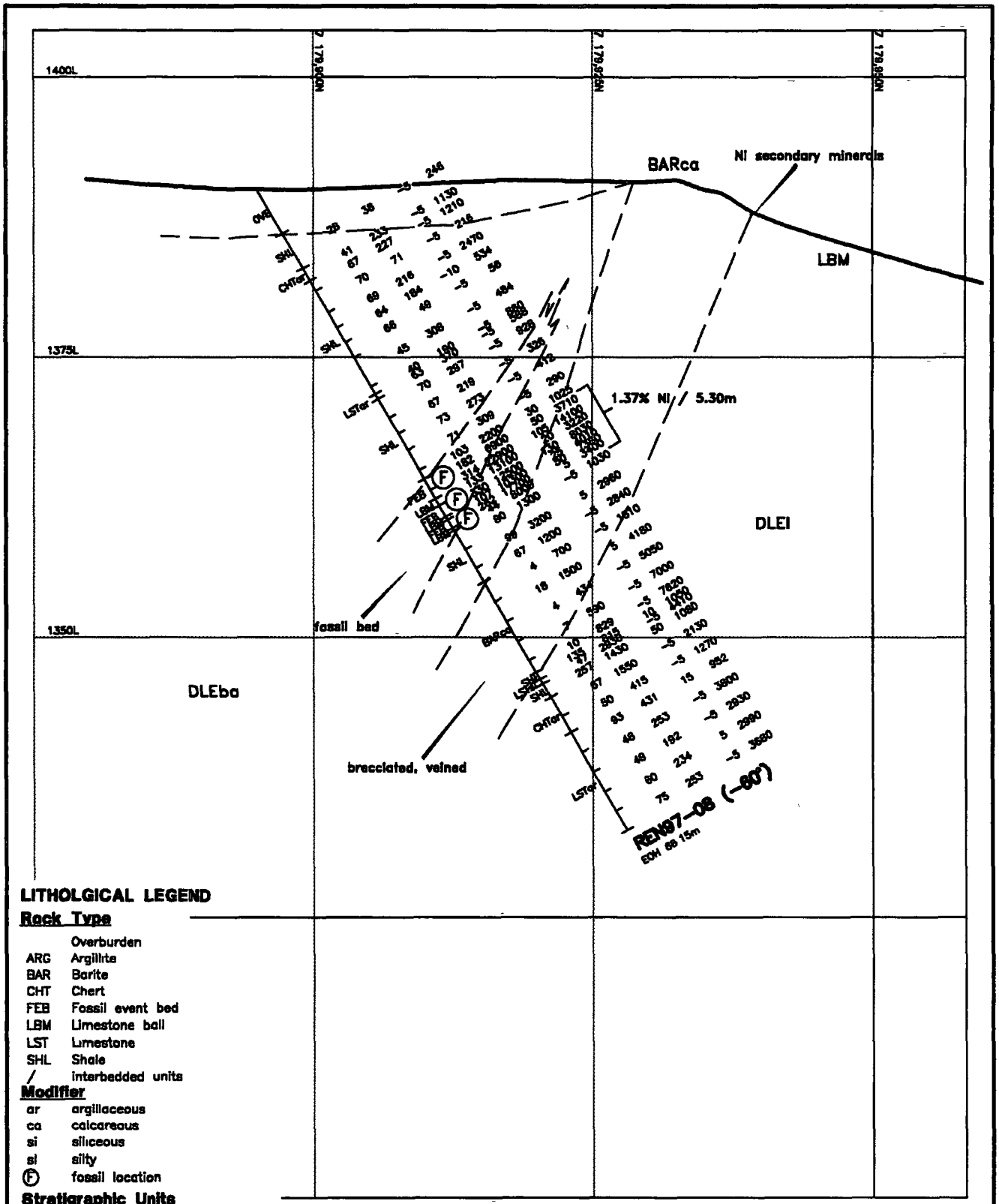
REIN PROPERTY

REN97-07

VIEW LOOKING 270°

Date	DEC 1997	Scale	1:500
UTM Zone	UTM7(NAD27)	Mining District	Mayo/Dawson
NTS	116B/9,A/12	Province	Yukon Territory

Figure 10



LITHOLGICAL 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
Ⓕ	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

SHLca
GEOLOGY | 84 Mo(ppm) | 232 Ni(ppm) | -5 Pt(ppb) | 436 Zn(ppm)

0 5 10 20
metres

BLACKSTONE RESOURCES INC.

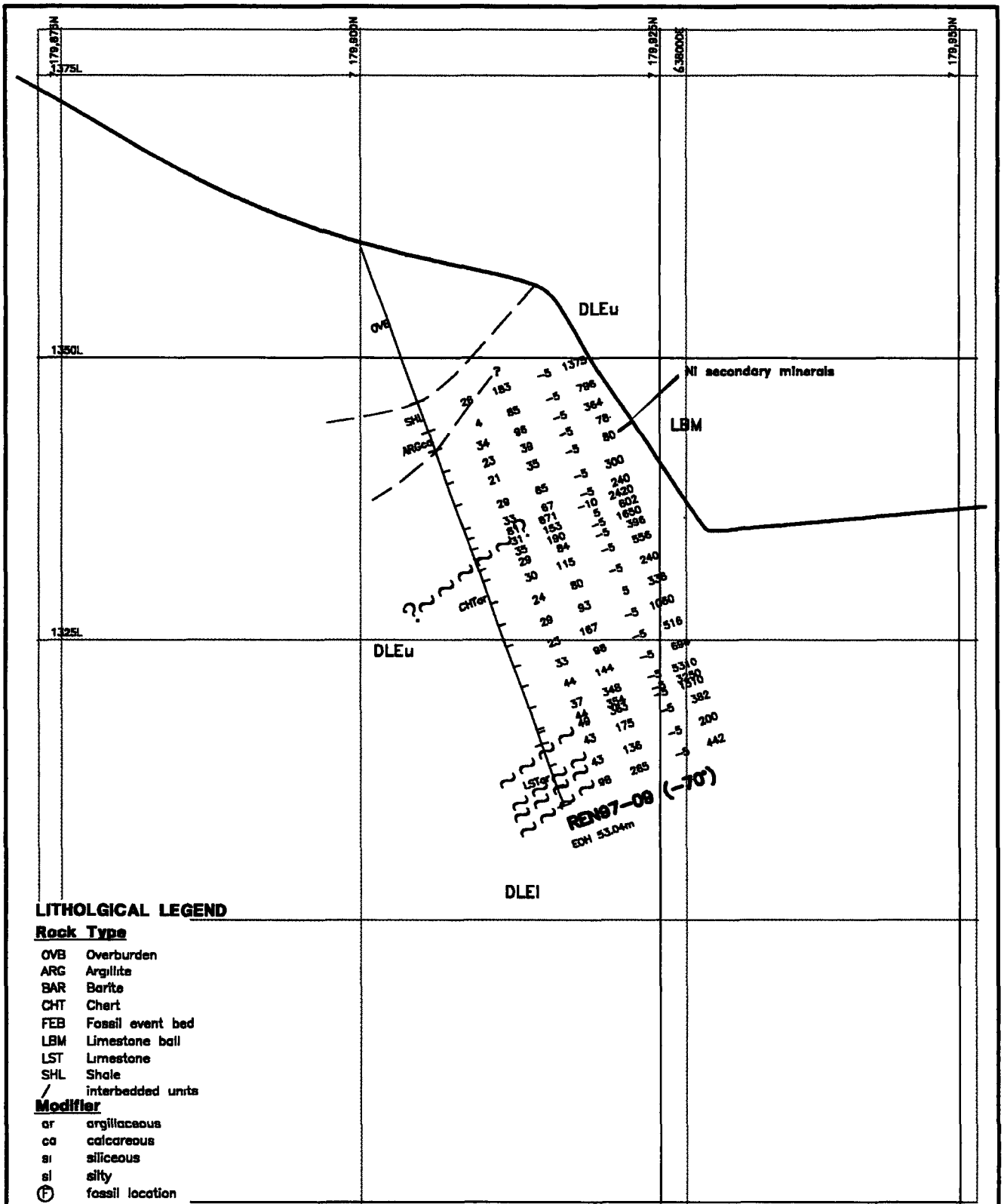
REIN PROPERTY

REN97-08

VIEW LOOKING 270°

Date	DEC 1997	Scale	1:500
UTM Zone	UTM7(NAD27)	Mining District	Mayo/Dawson
NTS	116B/9A/12	Province	Yukon Territory

Figure 11



LITHOLGICAL 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, charty argillite
DLEba	Barite horizon calcareous, carbonaceous barite, shale
DLEl	Lower member: interbedded, argillite, calcareous shale, siltstone, limestone and chert

SHLcc | 84 Mo(ppm) | 232 Ni(ppm) | −5 Pt(ppb) | 436 Zn(ppm)

GEOLOGY

0 5 10 20
metres

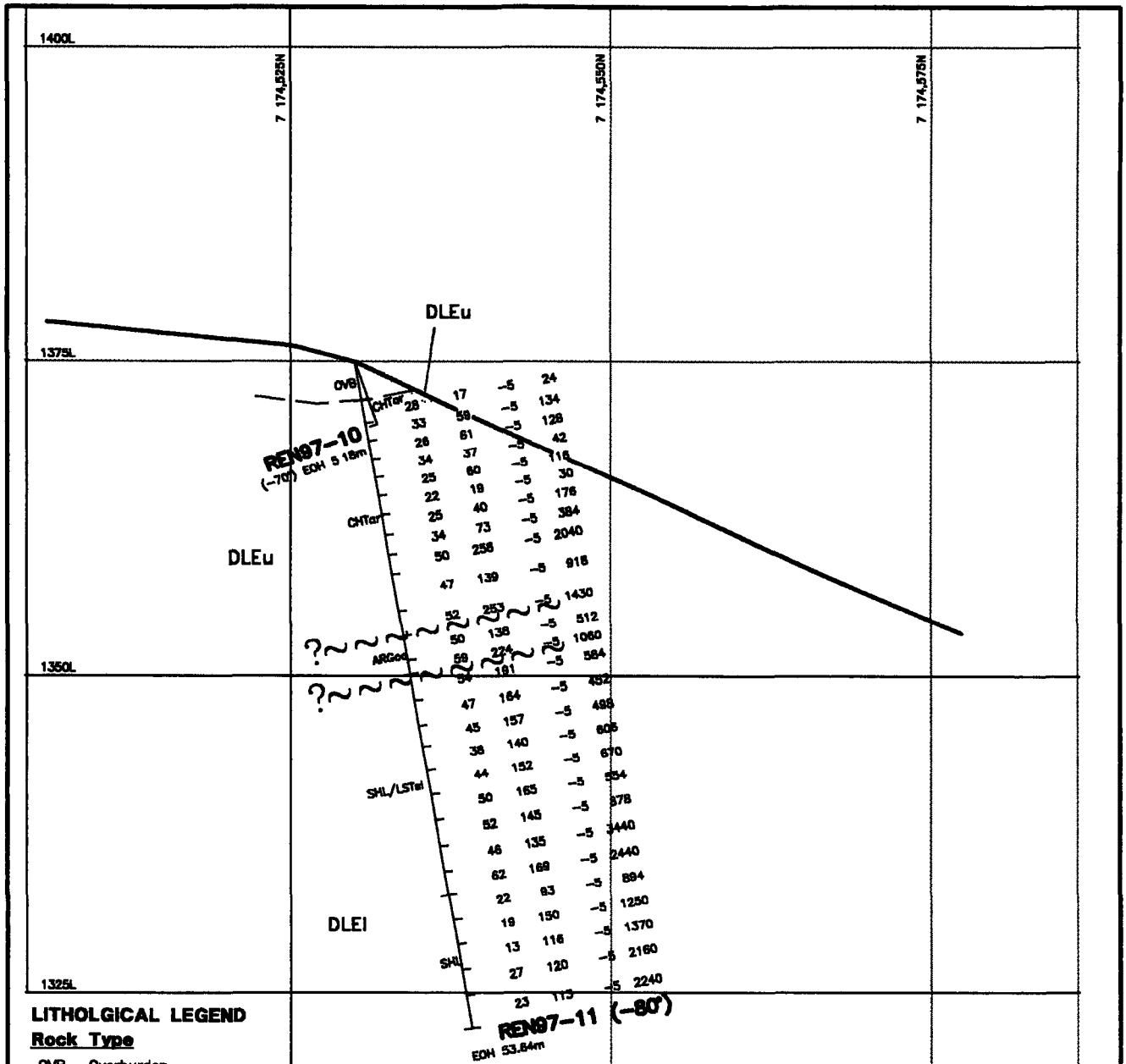
BLACKSTONE RESOURCES INC.

REIN PROPERTY

REN97-09

VIEW LOOKING 250°

	Date: DEC 1997	Scale: 1:500	Figure: 12
	UTM Zone: UTM7(NAD27)	Mining District: Mayo/Dawson	
	NTS: 116B/9,A/12	Province: Yukon Territory	



LITHOLGICAL 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
DLEl	Lower member, interbedded, argillite, calcareous shale, siltstone, limestone and chert

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

0 5 10 20
metres

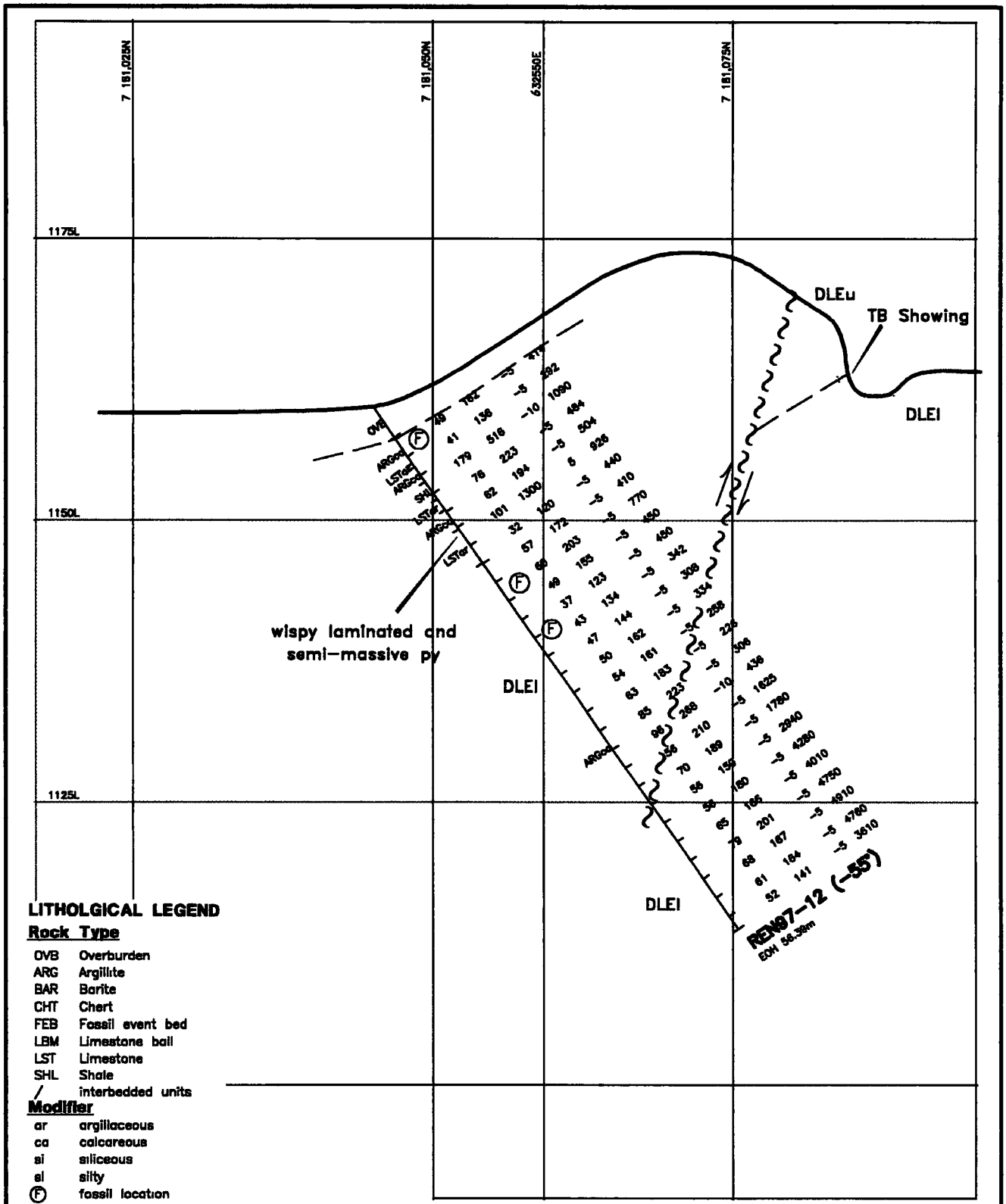
BLACKSTONE RESOURCES INC.

REIN PROPERTY

REN97-10, -11

VIEW LOOKING 280°

Date: DEC 1997	Scale: 1:500	Figure: 13
U.T.M. Zone: UTM7(NAD27)	Mining District: Mayo/Dawson	
N.T.S.: 116B/9,A/12	Province: Yukon Territory	



LITHOLGICAL 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
DLEl	Lower member: interbedded, argillite, calcareous shale, siltstone, limestone and chert

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

0 5 10 20
metres

BLACKSTONE RESOURCES INC.

REIN PROPERTY

REN97-12

VIEW LOOKING 250°

EQUITY

Date	DEC 1997	Scale	1:500
UTM Zone	UTM7(NAD27)	Mining District	Mayo/Dawson
NTS	116B/9,A/12	Province/Territory	Yukon Territory

Figure 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 DLEl, 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 DLEl 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 DLEl 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 DLEl 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-DLEl 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-DLEl 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 DLEl 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 km^2

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 (NiS_2) 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 DLEl) 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?

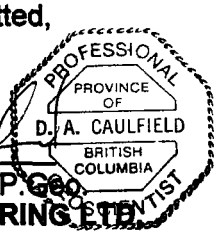
In an effort to answer these questions, a number of studies are currently being undertaken. Petrographic and scanning electron microscope work by Panterra Geoservices should help in determining Ni minerals and whether the mineral species is consistent in holes REN 97-07 and 08. Further geochemical analyses 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 DLEl. 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 DLEl, 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 DLEl.

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

APPENDIX A

BIBLIOGRAPHY

BIBLIOGRAPHY

Abbott, G. (1992). Revised Stratigraphy and New Exploration Targets in the Hart River Region (NTS 116A/10, 116A/11), Southeastern Ogilvie Mountains in Yukon Exploration and Geology 1992; Indian and Northern Affairs Canada, Yukon, p. 13-23.

Abbott, G. (1993): Geological Map of Two Beaver Lake Map Area (116A/11); Indian and Northern Affairs Canada, Yukon, Open File 1993-8(G).

Awmack, H.J. (1995): Taiga Project, A Stratiform Ni-Zn-Mo-Au-PGE Exploration Target; Private report prepared for Blackstone Resources Inc.

Baknes, M. E. (1995): 1994 Geological Report on the Rein Claims; Report submitted for assessment credit.

Burgoyne, A.A. (1977): UMEX-Shell Joint Venture Blackstone Project, Summary Report on the 1977 Exploration Program; Private report prepared for the Blackstone Joint Venture

Caulfield, D.A. (1997): 1996 Exploration Program on the Rein Property; Report submitted for assessment credit.

Coveney, R.M., Murowchick, J.B., Grauch, R.I., Chen Nansheng and Glascock, M.D (1992): Field Relations, Origins, and Resource Implications for Platiniferous Molybdenum-Nickel Ores in Black Shales of South China; Exploration and Mining Geology, Vol 1, No 1, pp. 21-28.

Coveney, R.M., Grauch, R.I. and Murowchick, J.B. (1994): Metals, Phosphate and Stone Coal in the Proterozoic and Cambrian of China: The Geologic Setting of Precious Metal-bearing Ni-Mo Ore Beds; SEG Newsletter, July 1994, pp. 1-11

Dyson, C V. (1975). UMEX-Shell Blackstone Joint Venture Project, Report on the 1975 Exploration Program; Private report prepared for the Blackstone Joint Venture.

Dyson, C V. (1977): Report on the Blackstone 1976 UMEX-Shell Joint Venture Exploration Program; Private report prepared for the Blackstone Joint Venture.

Friske, P.W.B., Hornbrook, E.H.W., Lynch, J J., McCurdy, M.W., Gross, H., Galletta, A.C. and Durham, C.C. (1991): National Geochemical Reconnaissance Stream Sediment and Water Data, West Central Yukon, (NTS 116B; parts of 116C, 116F and 116G) Geological Survey of Canada Open File 2365.

Goodfellow, W.D. (1989): Interpretation of Stream Geochemistry leading to the Discovery of a Secondary Zinc Deposit, Pelly River, Nahanni map area, Yukon; in Current Research, Part E, Geological Survey of Canada, Paper 89-1E, p. 31-50.

Goodfellow, W.D., Pride, K., Uyeno, T.T and Gregroire, C C. (1996) Genesis of Carbonaceous Shale-hosted Ni-Mo-PGE Deposits; notes for presentation for New Deposits Models of the Cordillera Short Course.

Green, L.H. (1972): Geology of Nash Creek, Larsen Creek and Dawson map-areas, Yukon Territory; Geological Survey of Canada, Memoir 364, 157 pp.

Hulbert, L.J., Gregoire, D C., Paktunc, D. and Carne, R.C (1992): Sedimentary Nickel, Zinc, and Platinum-group-element Mineralization in Devonian Black Shales at the Nick Property, Yukon, Canada: A New Deposit Type; Exploration and Mining Geology, Vol. 1, No. 1, pp. 39-62.

Roots, C.F. (1982): Ogilvie Mountains Project, Yukon; Part B. Volcanic Rocks in North-Central Dawson Map Area; Geological Survey of Canada, Paper 82-1A, p. 411-414

Thompson, R.I. and Roots, C.F. (1982): Ogilvie Mountains Project, Yukon; Part A: A New Regional Mapping Program; Geological Survey of Canada, Paper 82-1A, p. 403-411.

Thompson, R.I., Roots, C.F. and Mustard, P.S. (1992): Geology of Dawson Map Area (116B,C); Geological Survey of Canada, Open File 2849.

UMEX-Shell Internal Reports (1976-1982): Blackstone Joint Venture

Yukon Assessment Reports: 090207

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 @ $5/day		60.00	5,685.00
EXPENSES:			
Accommodation		1,205.66	
Airfare		7,131.70	
Automotive Fuel		1,018.37	
Bulk Fuel		8,266.62	
Camp Food		3,166 05	
Camp Supplies		5,184.76	
Chemical Analyses		9,332.32	
Contract Construction		10,843.36	
Courier		32.01	
Expediting		450.00	
Fax Charges		11 54	
Freight		4,268.29	
Helicopter Charters		38,310 00	
Maps and Publications		84 64	
Materials and Supplies		2,566.56	
Meals		749 82	
Storage in Dawson City		360 00	
Printing and Reproductions		344 40	
Radio Rental		361 86	
Reclamation		276.79	
Recording Fees		52.50	
Safety Supplies		3 69	
Satellite Phone Rental		1,367 33	
Stationary Supplies		55 91	
Taxis and Airporters		142.60	
Telephone Distance Charges		216.62	
Tolls and Airport Taxes		4 67	
Truck Rental (non-Equity)		2,036 71	
Vehicle Repairs		266 43	
Drilling:			
	Mob/Demob	7,996.92	
	Footage	45,108.50	
	Materials	6,499.74	
	Standby/Moves/Travel	6,360 00	
	Other	900.00	164,976.37
SUB-TOTAL:			**$ 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
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V6P 2X3

Chris Hope (Senior Sampler
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Devon Holbek (Sampler)
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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		Au (ppb)	Pt (ppb)	Pd (ppb)	Ag (ppm)
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	As (ppm)	Mo (ppm)	Ni (ppm)	Zn (ppm)
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		Au (ppb)	Pt (ppb)	Pd (ppb)	Ag (ppm)
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	As (ppm)	Mo (ppm)	Ni (ppm)	Zn (ppm)
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		Au (ppb)	Pt (ppb)	Pd (ppb)	Ag (ppm)
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	As (ppm)	Mo (ppm)	Ni (ppm)	Zn (ppm)
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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Project: REIN BLK97-04
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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: Jean Pierre Bilodeau

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Certificate Date: 24-SEP-97
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P.O. Number :
Account :EIA

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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
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

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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

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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
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: Stewart Bachlo

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(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

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
Total Pages :2
Certificate Date: 24-SEP-97
Invoice No :19742836
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: Stuart Buchler

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To: EQUITY ENGINEERING LTD.

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Certificate Date: 24-SEP-97
Invoice No. :I9742836
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Project REIN BLK97-04
Comments: ATTN: DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

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						

CERTIFICATION: [signature]

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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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V6B 1N2

Project : BLK97-04
Comments: ATTN: DAVID CAULFIELD CC: BRIAN BUTTERWORTH

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: David Bradley

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Page Number :1-B
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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 %
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: Stewart Bachlet

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

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

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

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 %
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: Stewart Sutherland

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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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

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
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

Certificate Date: 05-NOV-97
Invoice No. : I9748581
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 %
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

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

Certificate Date: 05-NOV-97
Invoice No. : 19748581
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
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

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British Columbia, Canada V7J 2C1
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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

Certificate Date: 05-NOV-97
Invoice No. : I9748581
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: Hart Pocklan

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

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

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 1-A
Total Pages 2
Certificate Date: 19-SEP-97
Invoice No. I9741686
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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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
Total Pages :2
Certificate Date: 19-SEP-97
Invoice No. :I9741686
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
N299601	205	226	0.19	150	69	< 0.01	201	750	6	< 2	4	855	< 0.01	< 10	< 10	428	< 10	576
N299602	205	226	0.07	105	3	< 0.01	112	1370	20	< 2	2	75	< 0.01	< 10	< 10	88	< 10	546
N299603	205	226	0.17	140	3	< 0.01	108	1880	24	2	4	125	< 0.01	< 10	< 10	114	< 10	522
N299604	205	226	0.19	100	3	< 0.01	79	2190	18	2	4	161	< 0.01	< 10	< 10	88	< 10	332
N299605	205	226	0.06	105	6	< 0.01	117	3550	28	4	1	185	< 0.01	< 10	< 10	95	< 10	698
N299606	205	226	0.09	155	17	< 0.01	129	3510	30	4	3	117	< 0.01	< 10	10	190	< 10	716
N299607	205	226	0.05	100	5	< 0.01	59	1650	22	2	1	52	< 0.01	< 10	10	68	< 10	276
N299608	205	226	0.09	110	11	< 0.01	77	3940	36	6	2	301	< 0.01	< 10	< 10	112	< 10	316
N299609	205	226	0.05	85	2	< 0.01	74	1280	14	2	3	81	< 0.01	< 10	< 10	67	< 10	538
N299610	205	226	0.45	155	3	< 0.01	116	2230	38	4	16	107	< 0.01	< 10	< 10	215	< 10	714
N299611	205	226	0.21	100	4	< 0.01	114	2370	30	4	5	143	< 0.01	< 10	< 10	161	< 10	528
N299612	205	226	0.08	80	43	< 0.01	127	1590	22	2	2	71	< 0.01	< 10	< 10	94	< 10	280
N299613	205	226	0.16	45	9	< 0.01	78	2330	12	< 2	2	152	< 0.01	< 10	< 10	130	< 10	328
N299614	205	226	0.30	60	7	< 0.01	88	3010	8	< 2	3	180	< 0.01	< 10	< 10	169	< 10	390
N299615	205	226	0.39	115	8	< 0.01	91	2810	6	2	3	163	< 0.01	< 10	< 10	160	< 10	528
N299616	205	226	0.18	55	43	< 0.01	119	3390	12	6	3	194	< 0.01	< 10	10	277	< 10	428
N299617	205	226	1.42	250	36	< 0.01	117	410	2	< 2	2	806	< 0.01	< 10	< 10	489	< 10	408
N299618	205	226	0.05	80	1	< 0.01	59	2860	16	< 2	1	78	< 0.01	< 10	< 10	80	< 10	290
N299619	205	226	0.22	80	3	< 0.01	76	2290	16	< 2	4	151	< 0.01	< 10	< 10	106	< 10	294
N299620	205	226	0.05	25	3	0.01	26	2760	8	2	1	283	< 0.01	< 10	< 10	68	< 10	108
N299621	205	226	0.11	85	3	< 0.01	51	500	16	6	1	121	< 0.01	< 10	< 10	71	< 10	266
N299622	205	226	3.59	865	3	0.02	36	1100	16	4	6	725	< 0.01	< 10	< 10	210	< 10	136
N299623	205	226	2.87	560	1	0.03	38	1010	12	2	3	736	< 0.01	< 10	< 10	144	< 10	118
N299624	205	226	5.50	635	< 1	0.03	16	600	6	< 2	4	743	< 0.01	< 10	< 10	151	< 10	62
N299625	205	226	0.08	45	3	< 0.01	34	1160	12	6	1	88	< 0.01	< 10	< 10	69	< 10	98
N299626	205	226	0.09	35	10	0.01	54	1660	22	6	1	97	< 0.01	< 10	< 10	166	< 10	210
N299627	205	226	0.06	35	26	< 0.01	81	630	12	4	1	31	< 0.01	< 10	< 10	196	< 10	968
N299628	205	226	0.05	40	26	< 0.01	86	600	22	6	2	25	< 0.01	< 10	< 10	191	< 10	1125
N299629	205	226	0.05	50	29	< 0.01	73	750	12	6	2	39	< 0.01	< 10	< 10	220	< 10	2220
N299630	205	226	0.05	30	31	< 0.01	73	510	10	6	1	28	< 0.01	< 10	< 10	170	< 10	1420
N299631	205	226	0.08	45	30	< 0.01	69	500	8	6	3	34	< 0.01	< 10	< 10	269	< 10	2200
N299632	205	226	0.07	35	28	< 0.01	79	530	14	4	3	33	< 0.01	< 10	< 10	215	< 10	1100
N299633	205	226	0.07	45	32	< 0.01	94	260	18	6	1	17	< 0.01	< 10	< 10	190	< 10	1865
N299634	205	226	1.94	410	13	< 0.01	50	1970	10	4	3	333	< 0.01	< 10	< 10	172	< 10	802
N299635	205	226	6.07	1270	< 1	0.02	18	1230	10	< 2	4	901	< 0.01	< 10	< 10	147	< 10	26
N299636	205	226	6.33	1015	2	0.02	33	990	10	< 2	4	719	< 0.01	< 10	< 10	150	< 10	102
N299637	205	226	0.13	75	61	< 0.01	169	1910	20	6	3	70	< 0.01	< 10	< 10	213	< 10	406
N299638	205	226	0.17	65	9	< 0.01	93	3070	20	8	4	197	< 0.01	< 10	< 10	221	< 10	430
N299639	205	226	0.11	115	7	< 0.01	92	3110	24	8	2	176	< 0.01	< 10	< 10	230	< 10	340
N299640	205	226	0.09	50	11	< 0.01	96	4670	16	8	4	464	< 0.01	< 10	< 10	256	< 10	320

CERTIFICATION:

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Analytical Chemists * Geochemists * Registered Assayers

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To. EQUITY ENGINEERING LTD

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

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

Project : BLK 97-04
Comments: ATTN: DAVID A CAULFIELD CC: BRIAN BUTTERWORTH

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 _____

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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

Certificate Date 19-SEP-97
Invoice No. :I9741686
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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
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

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

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

Chemex Labs Ltd.

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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 :1-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 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 _____

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 :1-B
Total Pages :2
Certificate Date: 18-SEP-97
Invoice No :I9741687
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:

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V6B 1N2

Project : BLK 97-04
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Page Number :2-A
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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
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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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
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

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

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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Page Number :1-A
Total Pages :1
Certificate Date 23-SEP-97
Invoice No. :19742839
P.O. Number .
Account .EIA

Project : REIN BLK97-04
Comments. ATTN DAVID A CAULFIELD CC: BRIAN BUTTERWORTH

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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Project : REIN BLK97-04
Comments· ATTN: DAVID A. CAULFIELD CC. BRIAN BUTTERWORTH

Certificate Date: 23-SEP-97
Invoice No. : I9742839
P.O. Number :
Account : EIA

CERTIFICATE OF ANALYSIS A9742839

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 Hart Bichler

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To: EQUITY ENGINEERING LTD

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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

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Project : REIN BLK97-04
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Certificate Date: 24-SEP-97
Invoice No. : I9742838
P.O. Number :
Account : EIA

CERTIFICATE OF ANALYSIS A9742838

SAMPLE	PREP CODE		Au ppb AFS	Pt ppb AFS	Pd ppb AFS	Ba ppm
003909M	205	226	10	5	10	2300
003910M	205	226	12	5	10	2200
003911M	205	226	16	< 5	10	1800

CERTIFICATION: Stewart Buchler

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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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Project : BLK 97-44
Comments: ATTN:DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

Page Number :1
Total Pages :2
Certificate Date: 01-OCT-97
Invoice No. :I9741689
P.O. Number :
Account :EIA

CERTIFICATE OF ANALYSIS A9741689

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: Stuart Bichler

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Project : BLK 97-44
Comments ATTN:DAVID A. CAULFIELD CC: BRIAN BUTTERWORTH

Page Number :2
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Certificate Date: 01-OCT-97
Invoice No. :I9741689
P O. Number :
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CERTIFICATE OF ANALYSIS A9741689

SAMPLE	PREP CODE	Ba XRF %
N299700	299 --	5.5
N299701	299 --	3.3
N299702	299 --	0.5
N299703	299 --	0.8

CERTIFICATION: Stuart Bichler

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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	59	Pulp; prepped on other workorder
232	59	Perchloric-nitric-HF digestion

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
25	59	Ba ppm: HClO4-HNO3-HF digestion	AAS	10	10000

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Project : BLK97-04
Comments: ATTN: DAVID A CAULFIELD CC: BRIAN BUTTERWORTH

Page Number :1
Total Pages :2
Certificate Date: 23-SEP-97
Invoice No. : I9741690
P.O. Number :
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CERTIFICATE OF ANALYSIS A9741690

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									

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Project : BLK97-04
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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 _____

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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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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 : I9743802
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: Ian Bichler

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

Page Number :1
Total Pages :1
Certificate Date: 12-OCT-97
Invoice No. :I9745463
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

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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	2	Assay ring entire sample
234	2	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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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	268	234	0.56
299700	268	234	0.87

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To: EQUITY ENGINEERING LTD.

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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	21	Assay ring entire sample
234	21	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

Chemex Labs Ltd.

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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. :I9746142
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

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

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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CERTIFICATE OF ANALYSIS A9744021

SAMPLE	PREP CODE		Zn %									
N299708	244	--	1.41									

CERTIFICATION

APPENDIX F

DIAMOND DRILL LOGS

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT: REIN	COLLAR ELEVATION: 1235m
HOLE: REN97-01	AZIMUTH: 000°
LOCATION: 7181070N 632750E	DIP: -60°
LOGGED BY: D.A CAULFIELD	LENGTH: 74 58 m
DRILLED BY: FALCON DRILLING	HORIZONTAL PROJECTION:
ASSAYED BY: CHEMEX LABS	VERTICAL PROJECTION:
CORE SIZE: BTW	
DATE STARTED: AUGUST 24, 1997	DATE COMPLETED: AUGUST 25, 1997
DIP TESTS BY: NONE	

DEPTH	DIP	AZIM	DEPTH	DIP	AZIM

OBJECTIVE: DRILL TEST Ni-Mo-As-Pd-ANOMALY ON NORTH END OF TB GRID, EAST OF TB SHOWING

ALTERATION SCALE

absent
slight
moderate
intense

SULPHIDE SCALE

traces only
< 1%
1% – 3%
3% – 10%
> 10%

SUMMARY LOG

Lithologies

0 - 24.15 - Overburden
24.15 - 24.25 - Calcareous shale
24.25 - 25.85 - Argillaceous limestone
25.85 - 27.10 - Calcareous shale
27.10 - 28.00 - Argillaceous limestone
28.00 - 49.15 - Calcareous shale
49.15 - 65.80 - Chert / cherty argillite
65.80 - 67.52 - Calcareous shale
67.52 - 68.12 - Argillaceous limestone
68.12 - 74.58 - Calcareous shale

Significant Mineralization

49.15 - 65.80 Pyrite occurs as fine disseminations, wispy blebs, laminations; narrow semi-massive to massive beds; best zones 52.20 - 52.26, 53.08 - 53.21, *53.41 - 53.64*, *53.94 - 54.06*, 55.26 - 55.31,

PAGE 1 OF 4	PROJECT REIN	HOLE REN 97-01

DEPTH (M)	% CORE REC	% RQD		SULPHIDE BEDS	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION CA/QZ vn	FRACTURE INTENSITY
							0-24.15 QVB (casing to 55')		
5									
10									
15									
20									
			.00		CALC. SH.		S_0=70°		
24.15							24.15-24.25 Calcareous shale: grayish-black, hard		
25	97	30	.00	PY	ARG. LST.		(can scratch with steel) x-cut by		
							CA veining		
26.21			.00		CALC SH.		S_0=60° irregular CA veinlets - no 5", weakly conductive		
	59	61	.00				24.25-25.85 Argillaceous limestone: medium grey, thinly		
							bedded, carbonaceous, weakly conductive		
29.26							3 CAVE stronger conductivity along bedding /		
30							70° CA folat^n planes, light coloured beds		
	87	0					consist of silt-size calcareous		
				PY	60°				
32.31							grains, 25.00-25.45 - 1-2mm calcareous circular grains in shaley layer bioturbat^n ?		
	102	0					60° S_0 25.85-27.10		
							CA vnlts Calcareous shale · as above (24.15-24.25)		
35				PY					
35.36					CALC		27.10-28.00 Argillaceous limestone · as above (24.25-		
	98	20	.00	PY	SH.		25.65)		
							75° S_0 28.00-49.15 Calcareous shale · grayish black,		
38.40							relatively hard (can scratch w/ steel)		
40	100	20		PY			massive to thinly laminated, bedding hinted by		
							fly speck to silt size calcareous		
41.45							grains, * characterized by		
	93	22					55° circular fossil casts - tentaculites		
44.50							QZ conductive graphitic slips, overall		
45	102	13					weakly conductive, rare 5" lense		

PAGE 2 OF 4	PROJECT REIN	HOLE REN97-01

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au ppb	Pt ppb	Pd ppb	Mo ppm	Ni ppm	Zn ppm
24.15-49.15 trace PY as rare		24.15	24.25	0.10	299806	2	<5	<2	71	226	232
thin laminat^{n} but more commonly		24.25	25.85	1.60	07	<2	<5	<2	24	86	94
as blebby, lenses & replacements		25.85	27.10	1.25	08	<2	<5	<2	55	171	396
of tentaculites fossils		27.10	28.00	0.90	09	<2	<5	<2	7	23	136
		28.00	30.00	2.00	299810	<2	<5	<2	48	152	240
		30.00	32.00	2.00	11	<2	<5	<2	59	189	542
		32.00	34.00	2.00	12	<2	<5	<2	49	159	328
		34.00	36.00	2.00	13	<2	<5	<2	43	142	262
		36.00	38.00	2.00	14	<2	<5	<2	54	163	380
		38.00	40.00	2.00	15	<2	<5	<2	57	148	414
		40.00	42.00	2.00	16	<2	<5	<2	58	168	366
		42.00	44.00	2.00	17	<2	<5	<2	51	159	418
		44.00	46.00	2.00	299818	<2	<5	<2	61	197	616

PROJECT REIN

HOLE REN97-01

DEPTH (M)	% CORE REC	% RQD	MAG SUSC.	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION (CA/QZ VN.)	FRACTURE INTENSITY
				CALC SH.		50° S_0		
47.55			.00			60° QZ-CA vnlt		
	108	38				CA fracture-filling		
50				fault		49.15-65.80 Chert/cherty arg: greyish-black, silicious,		
50.60						65° S_0 noncalcareous, contains pyritic lenses,		
	102	38				crackl^d CA veining laminations, extremely fine disseminat^ns		
						& tiny (<1mm) spheroidal grains,		
53.64				CHERT		60° S_0 hairline crenulated graphitic		
	102	38				partings, tentaculites @ (crinoids??)		
55.17	96	45	PYRITE	CHERTY ARG.		@ 5700, nonconductive except on graphitic partings / PY zones.		
56.69						Significant Pyritic zones		
	104	45				49.60; 49.70; 5195-52.26: parallel (S_0)		
59.13						65° S_0 laminat^ns of PY, strongest concentrat^n 52.20-		
60	101	37				} QZ/CA vnlts 52.26; 52.7- 5mm PY bed; 53.08-53.21-		
61.26						multiple PY laminat^ns, 53.41-53.64-		
	88	10				multiple PY laminat^ns + increase		
						70° CA disseminat^d PY, 53.94-54.06 - strongest		
64.92						crackl^d QZ>CA veining concentrat^n of PY in sect^n — dissemin^td		
65						through wispy laminat^n to beds up to		
	107	40				3-4mm, 54.44-54.48 - as above; 5526-		
			.00	CALC SH.		5563 - laminat^d PY w/. 5cm bed of		
67.36				faulted		>50% PY from 55.26-55.31; 56.69;		
	120	59	.00	LST		58.98 - 8mm PY bed; 5993; 5995; 62.18-		
69.80						65° 5mm PY bed; 63.46, 63.61 - wispy PY		
70	102	19		E		lense, 640 - 3mm PY bed., 65.35-4mm		
71.32			.00	CALC SH.		convoluted PY bed.		
	58	28				* PY beds show grading - tops ↑		
72.54						S_0 70°		
	100	63				65.80-67.52 · Calcareous shale: greyish black,		
74.58						spotted w/ white specks of calcareous		
75 EOH						material, laminated to thin-bedded		
						very weakly conductive, calcareous		
						content increases ↓ upper contact marked by CA content		
						67.52-68.12 · Argillaceous limestone: medium light		
80						grey, non conductive.		
						68.12-74.52 · Calcareous shale · minor silicious		
						beds, ↑ marked by fine fly speck		
						calcareous debris, tentaculites @		
						701; thin-bedded, rare PY,		
85						weakly conductive.		
90								

PAGE 4 OF 4 | PROJECT REIN | HOLE REN97-01

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au ppb	Pt ppb	Pd ppb	Mo ppm	Ni ppm	Zn ppm
		46.00	48.15	2.15	299819	<2	<5	<2	52	182	818
		48.15	49.15	1.00	299601	6	5	4	69	201	576
		49.15	50.60	1.45	299655	10	<5	12	18	118	446
massive beds, laminations, wispy		50.60	51.83	1.23	299602	12	5	12	3	112	546
lenses & minute dissaminations		51.83	52.26	0.43	299603	14	10	16	3	108	522
throughout, strongest 5% concentrated		52.26	53.08	0.82	299604	12	5	12	3	79	332
from 53.41-53.64, 53.94-54.06		53.08	53.21	0.13	299605	14	10	18	6	117	698
for description of individual		53.21	53.41	0.20	299618	12	<10	12	1	59	290
zones of PY see geological		53.41	53.64	0.21	299606	14	10	22	17	139	716
description		53.64	53.94	0.30	299607	14	5	10	5	59	276
55.63-65.35 - as above except		53.94	54.06	0.12	299608	18	5	12	11	77	316
massive beds / laminations are		54.06	54.44	0.38	299609	12	5	12	2	74	538
less abdt.		54.44	54.58	0.14	299610	16	10	20	3	116	714
		54.58	55.26	0.68	299619	10	10	14	3	76	294
		55.26	55.63	0.37	299611	18	10	22	4	114	528
		55.63	57.00	1.37	299612	12	5	12	43	127	280
		57.00	59.00	2.00	299613	8	5	12	9	78	328
		59.00	61.00	2.00	299614	6	5	12	7	88	390
65.35-74.58 - rare PY lense		61.00	63.00	2.00	299615	6	5	8	8	91	528
		63.00	65.80	2.80	299616	6	5	10	43	119	428
		65.80	67.50	1.70	299617	4	<5	2	326	117	408
		67.50	68.12	0.62	299820	<2	<5	<2	3	18	30
		68.12	70.00	1.88	21	<2	<5	<2	58	181	570
		70.00	72.00	2.00	22	<2	<5	<2	93	245	736
		72.00	74.58	2.58	299823	<2	<5	<2	84	232	436
EOH											

PAGE	OF	PROJECT	HOLE

DEPTH (m)	% CORE REC	% RQD			LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION						FRACTURE INTENSITY

EQUITY ENGINEERING LTD.

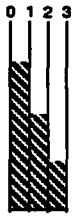
DRILL LOG

PROJECT: REIN	COLLAR ELEVATION: 1220m
HOLE: REN97-02	AZIMUTH: 030°
LOCATION: 7180660N 632285E	DIP: -60°
LOGGED BY: C. BAKER	LENGTH: 79.85m
DRILLED BY: FALCON DRILLING	HORIZONTAL PROJECTION:
ASSAYED BY: CHEMEX LABS	VERTICAL PROJECTION:
CORE SIZE: BTW	
DATE STARTED: AUG 25, 1997	DATE COMPLETED: AUG 26/97
DIP TESTS BY: NONE	

DEPTH	DIP	AZIM	DEPTH	DIP	AZIM

OBJECTIVE: DRILL TEST OF Ni - Mo - As - Pd ANOMALY AT SOUTH END OF TB GRID, UP SLOPE FROM THE DM SHOWING

ALTERATION SCALE



absent
slight
moderate
intense

SULPHIDE SCALE

traces only
< 1%
1% – 3%
3% – 10%
> 10%

SUMMARY LOG

0 - 4.57	OVERBURDEN	SIGNIFICANT MINERALIZATION:
4.57 - 9.05	CHERTY ARGILLITE	PYRITE IS PRESENT AS NARROW SYNGENETIC BEDS,
9.05 - 11.60	CALCAREOUS ARGILLITE	BLEBS, AND VERY FINE DISSEMINATIONS.
11.60 - 21.90	CHERTY ARGILLITE	PYRITE CONTENT ABOVE 30.90m IS RELATIVELY
21.90 - 23.70	CALCAREOUS ARGILLITE	HIGH. BEST ZONES: 9.05 - 11.60 -, 11.60 - 21.90m
23.70 - 30.90	CHERTY ARGILLITE	23.70 - 30.90m, 30.90 - 34.97m
30.90 - 34.97	ARGILLACEOUS LIMESTONE	
34.97 - 38.05	CALCAREOUS ARGILLITE	
38.05 - 79.85	ARGILLACEOUS LIMESTONE	

PAGE 1 OF 4 | PROJECT REIN | HOLE 97-02

DEPTH (M)	% CORE REC	% RQD	MAGNETIC SUSCEPTIBILITY	SUS. PROBE READS	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION (CA VNLTS)	FRACTURE INTENSITY
							0-4.57 OVERBURDEN (CASING)		
4.57									
5 5.18	85	0					4.57-9.05 CHERTY ARGILLITE		
	67	15					DARK GREY IN COLOUR WITH VERY FINE GRAIN		
8.23							SIZE. UNIT IS UNSCRATCHABLE WITH KNIFE		
							AND DOES NOT REACT TO HCL. THE UPPER METER		
10	102	50					OF THE INTERVAL CONTAINS ABUNDANT NARROW		
11.28							(<1mm) CALCITE VEINLETS BUT ORIENTATIONS		
							ARE DIFFICULT TO OBTAIN AS THE CORE IS VERY		
							RUBBLY. MINOR LIMONITE / JAROSITE ARE PRESENT		
14.33	95	0					ON FRACTURE SURFACES. NON-CONDUCTIVE.		
15							9.05-11.60 CALCAREOUS ARGILLITE.		
	87	67					LIGHT TO MEDIUM GREY IN COLOUR WITH COARSER		
17.37							SILT SIZED GRAINS. THE UPPER 30cm OF THE UNIT		
	102	79					IS WEAKLY BRECCIATED WITH CALCITE VEINS. FOR		
20							1.2m BELOW THIS THE UNIT APPEARS WEAKLY		
20.42							SHEARED AS THERE ARE ABUNDANT		
	94	82					PARALLEL TO SUBPARALLEL IRREGULAR CALCITE		
23.47							VEINLETS. THE LOWER 0.9m IS UNIFORMLY		
							BEDDED (@70°) THE UNIT IS BARREN AND NON CONDUCTIVE		
25	102	87					UPPER AND LOWER CONTACTS ARE DIFFUSE		
							11.60-21.90 CHERTY ARGILLITE		
26.52							DARK GREY IN COLOUR, VERY FINE GRAINED AND		
	102	78					UNSCRATCHABLE WITH KNIFE. THE UNIT CONTAINS		
							SPORADIC CALCITE VEINLETS AT VARYING ORIENTATIONS		
29.57							THE MATRIX IS UNSCRATCHABLE WITH A KNIFE AND		
30							IS EXTREMELY WEAKLY CONDUCTIVE AT BEST.		
	96	72					THE APPEARANCE OF THE UNIT IS UNIFORM THROUGHOUT.		
							LOWER CONTACT SUBPARALLEL AT 50° TO CA		
32.61							21.90-23.78 CALCAREOUS ARGILLITE.		
	87	26					THE GENERAL CHARACTERISTICS OF THIS UNIT		
35							ARE AS PER 9.05 - 11.60m, HOWEVER THIS UNIT HAS		
35.06							A MUCH LOWER CONCENTRATION OF CALCITE VEINLETS AND		
	103	58					DOES CONTAIN TRACE AMOUNTS OF BLEBBY PYRITE.		
							LOWER CONTACT DIFFUSE. UNIT IS NON CONDUCTIVE		
38.71							23.78-30.98 CHERTY ARGILLITE		
40	108	37					DARK GREY, VERY FINE GRAINED UNIT WHAT IS ILLUSTRATION-		
41.76							ABLE WITH KNIFE. NO REACTION TO HCL NOTED EXCEPT		
							FOR ISOLATED, NARROW CALCITE STRINGERS. GENERALLY		
	103	65					THE BEDDING IS NOT READILY EVIDENT, HOWEVER, IT		
44.73							IS DEFINED IN PLACES BY ALIGNED DISSEMINATIONS OF		
45							PYRITE. CALCITE VEINING IS GENERALLY VERY LIGHT EXCEPT		
	97	58					FOR THE LOWER 80cm WHERE WEAK CARBONATE/QUARTZ		

PAGE 2 OF 4 | PROJECT REIN | HOLE 97-02

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au ppb	Pt ppb	Pd ppb	Mo ppm	Ni ppm	Zn ppm
		4.57	5.18	0.61	299651	10	<5	6	17	72	994
		5.18	6.20	1.02	299652	6	<5	10	2	47	336
5 4.57-9.05-											
PYRITE IS PRESENT IN MINOR AMOUNTS THROUGHOUT		6.20	6.50	0.30	299653	18	10	20	5	31	82
THE UNIT. 80% OF THE PYRITE IS CONTAINED IN		6.50	8.00	1.50	299654	6	<5	10	2	37	130
IRREGULAR, SYNGENETIC BANDS UP TO 15cm THICK,		8.00	8.65	0.65	299620	4	5	10	3	26	108
AND THE REMAINDER IS PRESENT AS DISSEMINATIONS		8.65	9.05	0.40	299621	8	10	14	3	51	266
10		9.05	10.0	0.95	299622	12	5	18	3	36	136
11.60 - 21.90m		10.0	11.0	1.0	299623	14	5	12	1	38	118
PYRITE IS DOMINANTLY PRESENT IN SYNGENETIC		11.0	11.6	0.6	299624	20	<10	10	<1	16	62
BANDS UP TO 16cm WIDE THESE BANDS GENERALLY		11.6	13.0	1.4	299625	6	5	10	3	34	98
OCCUR AT 40 TO 45° TO C.A. PYRITE ALSO		13.0	14.33	1.33	299626	6	5	12	10	54	210
IS OCCURS IN BLEBS UP TO 1.7cm ACROSS		14.33	15.0	0.67	299627	8	10	10	26	81	968
LARGEST DIMENSION. PYRITE MAY ALSO OCCUR		15.0	16.0	1.0	299628	8	10	10	26	86	1125
IN IRREGULAR TRAINS OF BLEBS THAT MAY BE		16.0	17.37	1.37	299629	8	5	10	29	73	2230
DISCORDANT TO THE BEDDING (POSSIBLE SOFT-		17.37	18.0	0.63	299630	6	5	8	31	73	1420
SEDIMENT DEFORMATION). THE SYNGENETIC BEDS		18.0	19.0	1.0	299631	8	5	8	30	69	2200
20 OF PY. ACCOUNT FOR APPROX 70% OF PY		19.0	20.0	1.0	299632	8	5	10	28	79	1100
CONTAINED IN UNIT.		20.0	21.0	1.0	299633	10	5	10	32	94	1865
		21.0	22.23	1.23	299634	10	<5	8	13	50	802
21.90-23.10m PYRITE IS CONTAINED IN IRREGULAR		22.23	22.95	0.72	299635	12	<5	6	<1	18	216
TRAINS OF BLEBS UP TO 4cm IN LENGTH THESE TRAINS OFTEN LOOSELY FOLLOW BEDDING POSSIBLY INDICATING SOFT SED. DEFORMATION. RARE SYNGENETIC PY IS PRESENT ALSO.		22.95	23.6	0.65	299636	16	5	10	2	33	102
23.90-30.90m		23.6	24.5	0.90	299637	16	5	16	61	169	406
25 PYRITE IS CONTAINED IN BLEBS, SYNGENETIC BEDS AND		24.5	25.5	1.0	299638	10	10	18	9	93	430
DISSEMINATIONS THROUGHOUT 80% OF THE PYRITE IS		25.5	26.5	1.0	299639	14	10	16	7	92	340
CONTAINED IN BLEBS UP TO 4cm ACROSS LARGEST		26.5	27.5	1.0	299640	8	5	14	11	96	330
DIMENSION BUT GENERALLY THEY ARE BETWEEN 0.5 & 1.5cm		27.5	28.5	1.0	299641	8	5	12	8	99	438
ACROSS. 20% IS CONTAINED IN BEDS UP TO 0.5cm		28.5	29.5	1.0	299642	6	5	12	9	84	502
30 THICK, 10% IS PRESENT AS FINE DISSEMINATIONS		29.5	30.5	1.0	299643	4	5	8	20	107	810
ALONG BEDDING PLANES. VEINLETS ARE <0.5cm											
30.90 - 34.93m		30.5	31.5	1.0	299644	<2	5	6	65	209	646
TRACE PYRITE IS PRESENT AS FINE DISSEMINATIONS IN		31.5	32.5	1.0	299645	<2	<5	<2	69	232	336
THE BRECCIATED ZONE AT THE TOP OF		32.5	33.5	1.0	299646	<2	<5	<2	53	200	270
THE UNIT. THESE MAY HAVE BLOWN OUT		33.5	34.5	1.0	299647	<2	<5	<2	40	155	256
35 OF CALCITE PRESENT IN THE BRECCIATED		34.5	35.5	1.0	299648	<2	<5	2	65	214	534
		35.5	36.5	1.0	299649	<2	<5	<2	60	206	630
		36.50	37.50	1.0	299650	<2	<5	<2	63	224	414
34.93 - 79.85		37.50	38.50	1.0	299824						
TRACE PYRITE IS FOUND SPORADICALLY		38.50	40.00	1.5	25	<2	<5	<2	57	165	334
40 IN THIS UNIT. IT IS FOUND IN SYNGENETIC		40.00	42.00	2.0	26	<2	<5	<2	52	168	372
BEDS UP TO 6mm IN THICKNESS.											
		42.00	44.00	2.0	27	<2	<5	<2	46	156	302
K		44.00	46.00	2.0	299828	<2	<5	<2	42	149	338

PAGE 3 OF 4 | PROJECT REIN | HOLE 97-02

DEPTH (M)	% CORE REC	% RQD	MAG. SUS.	SURFACE DEF	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION (CA VEINS)	FRACTURE INTENSITY
47.95							BRECCIATION OCCURS. THE UNIT IS NON-CONDUCTIVE.		
							30.90-34.42 ARGILLACEOUS LIMESTONE.		
							MASSIVE GREY IN COLOUR, FINE GRAINED AND		
							IN PLACES IS STRONGLY CALCAREOUS. THE UNIT		
50	100	56					IS HARD BUT IS SCRATCHABLE WITH A KNIFE.		
50.90							THE UPPER 50cm IS SHOT THROUGH WITH		
							CALCITE VEINLETS (6 TO 7mm ACTUAL). RARE PY		
	104	41					BLEBS ARE FOUND IN THIS SECTION. WITHIN THE		
						SLIK	AREA OF INTENSE CALCITE VEINING IS A 5cm WIDE		
53.95						SLIK	INTERVAL OF RELATIVELY MASSIVE ROCK THAT CON-		
55	90	8					TAINS THE SMALL (≤ 2mm), HAIRLINE &		
							SLIGHTLY COARSER GRAINED BODIES THAT REACT		
57.00							MORE STRONGLY TO HCl. THESE WERE DESCRIBED AS POSSIBLE		
	94	51					DISTURBANCE IN 97-01. FROM 32.96m TO 33.10m IS		
60							A FOLDED ZONE HOWEVER ORIENTATION IS UNKNOWN DUE		
60.05							TO BLOCKY CORE DIRECTLY BELOW THIS ZONE IS A 10cm		
	99	87					WIDE BARREN CALCITE VEIN. ANOTHER SIMILAR		
63.09							VEIN OCCURS AT 34.95m. BOTH VEINS AT THIS		
							ZONE WHERE VEINLETS COALESCE INTO 5" SOLID		
65	103	83					BUT END THERE. AT THE UNIT IT IS PLANAR		
66.14							UNIT IS NON-CONDUCTIVE.		
							37.97-38.05 CALCAREOUS ARGILLITE		
	103	70					THE UNIT IS DARK GREY AND UNIFORMLY FINE GRAINED		
69.19							FROM 36.3m TO 37.1m THE UNIT IS VARIABLY BRECC-		
70							IATED BY CALCITE LOCALLY THERE IS A WEAK REACTION		
	95	75					TO HCl. THE UNIT IS HARD BUT IS SCRATCHED WITH		
72.24							A KNIFE WITH DIFFICULTY. UPPER CONTACT PLACED		
	98	94					AT BOTTOM OF LOWER CALCITE VEIN MENTIONED ABOVE.		
75.29							LOWER CONTACT DIFFUSE. UNIT IS BARREN AND WEAKLY		
							TO LOCALLY MODERATELY CONDUCTIVE.		
							78.05-79.05 ARGILLACEOUS LIMESTONE		
	104	82					DARK GREY IN COLOUR WITH FINE GRAIN SIZE. VARIABLY		
78.23							INTENSE CALCITE VEINING BUT OVERALL IT IS WEAK.		
	100	63					THE UNIT IS MEDIUM HARD BUT SCRATCHABLE. A		
79.55 EOH							UNIFORMLY STRONG REACTION TO HCl NOTED THROUGHOUT.		
							TENTACULITES CAN BE FOUND THROUGHOUT THE UNIT		
							ALSO. TRACE PYRITE 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.		

PAGE 4 OF 4 | PROJECT REIN | HOLE 97-02

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au ppb	Pt ppb	Pd ppb	Mo ppm	Ni ppm	Zn ppm
		46.00	48.00	2.00	299829	<2	<5	<2	38	135	432
		48.00	50.00	2.00	299830	<2	<5	<2	45	142	326
50											
		50.00	52.00	2.00	31	<2	<5	<2	72	210	314
		52.00	54.00	2.00	32	<2	<5	<2	49	148	156
55		54.00	56.00	2.00	33	<2	<5	<2	90	193	110
		56.00	58.00	2.00	34	<2	<5	<2	80	214	236
		58.00	60.00	2.00	35	<2	<5	<2	95	239	263
60											
		60 00	62.00	2.00	36	<2	<5	<2	106	248	346
		62 00	64.00	2.00	37	<2	<5	<2	96	240	554
65		64 00	66 00	2.00	38	<2	<5	<2	86	247	540
		66.00	68 00	2.00	39	<2	<5	<2	96	261	572
		68.00	70.00	2.00	299840	<2	<5	<2	89	249	572
70											
		70.00	72.00	2.00	41	<2	<5	<2	103	263	662
		72 .00	7400	2.00	42	<2	<5	2	66	170	2240
75		74.00	76.00	2 00	43	<2	<5	2	67	183	2420
		76.00	78.00	2.00	44	<2	<5	2	82	218	584
		78.00	79.85	1 85	299845	<2	<5	<2	82	226	540

PAGE	OF	PROJECT	HOLE

DEPTH (m)	% CORE REC	% RQD			LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION						FRACTURE INTENSITY

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT: REIN	COLLAR ELEVATION: 1295m
HOLE: REN97-03	AZIMUTH: 000°
LOCATION: 7180140 N, 637165 E	DIP: -50°
LOGGED BY: D.A. CAULFIELD	LENGTH: 21.95m
DRILLED BY: FALCON DRILLING	HORIZONTAL PROJECTION:
ASSAYED BY:	VERTICAL PROJECTION:
CORE SIZE: BTW	
DATE STARTED: AUGUST 26, 1997	DATE COMPLETED: AUGUST 26, 1997
DIP TESTS BY: NONE	

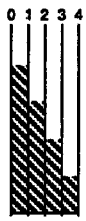
DEPTH	DIP	AZIM	DEPTH	DIP	AZIM

OBJECTIVE
DRILL TEST SOIL ANOMALY ON LOWER STRUCTURAL PANEL ON THE MM GRID

ALTERATION SCALE

absent
slight
moderate
intense

SULPHIDE SCALE



traces only
< 1%
1% – 3%
3% – 10%
> 10%

SUMMARY LOG

Lithologies	Mineralization
0 - 2.13 - Overburden	
2.13 - 3.00 - Siliceous shale	No significant mineralization
3.00 - 4.68 - Calcareous, siliceous shale	
4.68 - 5.18 - Argillaceous limestone	
5.18 - 16.93 - Calcareous shale	
16.93 - 17.24 - Shale	
17.24 - 18.43 Calcareous shale	
18.43 - 18.78 - Shale	
18.78 - 19.22 - Calcareous shale	
19.22 - 19.80 - Shale	
19.80 - 20.27 - Calcareous shale	
20.27 - 21.95 - Shale	

* Hole lost due to cave in hole; core barrel lost.

PAGE 1 OF 2 | PROJECT REIN | HOLE REN97-03

DEPTH (M)	% CORE REC	% RQD	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION		ALTERATION QZ/CA/GY	FRACTURE INTENSITY
					0-2.13	ØVB		
	38	0	Sil. Sh ?? CA SH		2.13-3.00 70° S_0 ? QZ, CA	Silicious shale · rubble zone, greyish black, hard (can be scratched), JA, GY, CA on fractures, relatively conductive		
5 5.18	95	15	Arg. LST CA SH		3.00-4.68 80° S_0 80° QZ	Calcareous, silicious shale similar to above zone in colour, hardness, distinguished by presence of CA		
8.23	100	36			4.68-5.18	Argillaceous limestone. medium grey, thin-bedded, non-conductive		
10 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 15	82	0		(F?) concretion	16.93-17.24	Shale · as above but lacking calcareous content, weakly conductive		
			SH		17.24-18.43	Calcareous shale : as above		
17.37	100	12	CA SH SH CA SH SH CA SH		80° S_0=S_1 18.43-18.78	Shale: medium dark grey, soft, noncalcareous		
20					18.78-19.22	Calcareous shale as above		
20.42	66	0	SH		19.22-19.80	Shale · as above		
					19.80-20.27	Calcareous shale		
21.95 EOH					20.27-21.95	Shale as above, soft, greyish black thinly laminated		

PAGE 2 OF 2	PROJECT REIN	HOLE REN97-03

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS					
		FROM	TO	WIDTH		Au ppb	Pt ppb	Pd ppb	Mo ppm	Ni ppm	Zn ppm
0											
2.13-2.195- trace PY											
5											
10											
15											
20											
											1

PAGE | OF | PROJECT | HOLE

DEPTH (M)	% CORE REC	% RQD		LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION	FRACTURE INTENSITY

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT: REN	COLLAR ELEVATION: 1295 m
HOLE: REN97-04	AZIMUTH: 000°
LOCATION: 7180140N 637165E	DIP: -60°
LOGGED BY: C. BAKER	LENGTH: 41.76m
DRILLED BY: FALCON DRILLING	HORIZONTAL PROJECTION:
ASSAYED BY: CHEMEX LABS	VERTICAL PROJECTION:
CORE SIZE: BTW	
DATE STARTED: 26/08/97	DATE COMPLETED: 27/08/97

DIP TESTS BY: NONE

DEPTH	DIP	AZIM	DEPTH	DIP	AZIM

OBJECTIVE

DRILL TEST OF SOIL ANOMALY ON LOWER STRUCTURAL PANEL OF THE MM GRID DRILLED FROM THE SAME PAD AS 97-03

ALTERATION SCALE

absent
slight
moderate
intense

SULPHIDE SCALE

traces only
< 1%
1% – 3%
3% – 10%
> 10%

SUMMARY LOG

LITHOLOGY:	MINERALIZATION:
0 - 2.13 OVERBURDEN (CASED)	NO MINERALIZATION NOTED IN HOLE
2.13 - 16.7 CALCAREOUS SHALE	BUT 4 ASSAY SAMPLES WERE COLLECTED
16.7 - 26.2 SHALE	IN SHALE ARGILLITE UNIT FROM
26.2 - 27.3 CALCAREOUS SHALE	32.5 m TO 37.2 m.
27.3 - 41.0 SHALE/ARGILLITE	
41.0 - 41.76 - LIMESTONE (arg.)	

PAGE 1 OF 3 | PROJECT REIN | HOLE 97-04

DEPTH (M)	% CORE REC	% RQD	SULPHIDES	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION (CA VEINLETS)	FRACTURE INTENSITY
						0-2.13 OVERBURDEN (CASING)		
2.13						2.13-16.7 CALCAREOUS SHALE.		
	28	0				BLACK, FINE GRAINED & FINELY BEDDED.		
5						THE UNIT IS MODERATELY HARD BUT		
5.18						BUT IS SCRATCHABLE WITH KNIFE.		
	89	10		CA		CARBONATE VEINING IS VARIABLE BUT OVER-		
				SH	BEDDING	ALL IT IS VERY WEAK. JAROSITE IS		
8.23						PRESENT ON SOME FRACTURED SURFACES AND IN		
	92	26				SOME OF THE CALCITE VEINS. REACTION TO		
10						HCL IS WEAK TO LOCALLY MODERATE. UNIT		
11.17						IS VERY WEAKLY CONDUCTIVE. LOWER CONTACT DIFFUSE		
	87	0			BEDDING	FRACTURES GENERALLY PARALLEL TO BEDDING		
12.65								
	83	31						
14.33					BEDDING			
15	96	36						
16.00								
	100	34				16.7-26.2 SHALE		
17.37						BLACK, FINELY LAMINATED AND VERY FINE GRAINED.		
	100	8				MINOR JAROSITE ON FRACTURE SURFACES & VIRTUALLY		
20					BEDDING	NON-EXISTANT CARBONATE VEINING. NO REACTION		
20.42						TO HCL EXCEPT IN RARE CALCITE VEINS IN BOTTOM		
	38	0		SH		1m OF UNIT IS A 30cm WIDE CHERTY		
22.25						ZONE THAT CONTAINS TRACE DISSEMINATED CALCITE		
	88	7				GIVING A VERY WEAK REACTION TO HCL.		
24.08					BEDDING			
25								
	100	30						
26.52				CA SH		26.2-27.3 CALCAREOUS SHALE		
					BEDDING	AS PER 2.13-16.7m		
	100	25			GYP VEINS			
					CARB BX			
29.57						27.3-41.0 SHALE/ARGILLITE		
30						BLACK, FINE GRAINED TO VERY FINE GRAINED WITH		
	89	30		SH		OBSCUR BEDDING. UNIT IS VARIABLY HARD		
32.61						AND IN SOME SECTIONS IT IS EASILY PITTED		
	93	25				WITH A KNIFE AND FRIABLE. IN THE UPPER		
35						2m OF THE UNIT GYPSUM VEINS ARE PRESENT		
35.46						IN MINOR AMOUNTS. THESE ARE VARIABLE IN		
					CAUCH ORIENTATION	THICKNESS (6.4mm) AND ORIENTATION. A 35cm		
	100	16				THICK SECTION STARTING AT 33.8m IS SO FINE		
38.71						GRAINED THAT WHEN SCRATCHED THE SURFACE		
40						APPEARS AND FEELS WAXY. THIS SECTION IS NON-		
	50	0				CONDUCTIVE WHERE AS THE REMAINDER IS WEAKLY		
41.76				ARL		TO MODERATELY CONDUCTIVE. UPPER AND LOWER		
EOH						CONTACTS DIFFUSE.		

PAGE 2 OF 3	PROJECT REIN	HOLE 97-04

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au ppb	Pt ppb	Pd ppb	Mo ppm	Ni ppm	Zn ppm
		2.13	5.18	3.05	299846	2	<5	2	51	139	388
		5.18	7.00	1.82	47	<2	<5	<2	64	318	1090
		7.00	9.00	2.00	48	<2	<5	<2	62	285	1150
		9.00	11.00	2.00	49	<2	<5	<2	67	226	1815
		11.00	13.00	2.00	299850	<2	<5	<2	34	258	1110
		13.00	15.00	2.00	299751	8	<5	6	23	39	78
		15.00	16.70	1.70	52	12	<5	10	21	35	80
		16.70	18.00	1.30	53	4	<5	4	29	65	300
		18.00	20.42	2.42	54	<2	<5	<2	28	17	34
		20.42	22.25	1.83	55	<2	<5	<2	33	59	134
		22.25	24.08	1.83	56	<2	<5	<2	26	61	128
		24.08	26.20	2.12	57	<2	<5	<2	34	37	42
		26.20	27.30	1.10	58	6	<5	<2	25	60	116
		27.30	29.00	1.70	59	<2	<5	<2	22	19	30
		29.00	31.00	2.00	299760	<2	<5	<2	25	40	176
		31.00	32.61	1.61	299761	<2	<5	<2	34	73	384
		32.61	33.80	1.19	299656	12	20	10	22	258	2150
		33.80	34.15	0.35	299657	26	5	12	2	384	5190
		34.15	35.66	1.51	299658	10	<5	12	16	108	910
		35.66	37.15	1.49	299659	8	<5	8	44	71	554
		37.15	38.71	1.56	299762	12	<5	8	15	53	182
		38.71	41.00	2.29	63	18	<5	12	9	83	396
		41.00	41.76	0.76	299764	20	<5	14	9	80	366
41.75 EOH											

PAGE 3 OF 3 | PROJECT REIN | HOLE 97-04

DEPTH (M)	% CORE REC	% RQD	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION	FRACTURE INTENSITY
					41.0-41.36 ARGILLACEOUS LIMESTONE BLACK, MASSIVE AND VERY FINE GRAINED. UNIT IS SOFT AND REACTS STRONGLY TO HCL. UNIT IS NON CONDUCTIVE AND CONTAINS NO CARBONATE OR GYPSUM VEINS.		

EQUITY ENGINEERING LTD.

DRILL LOG

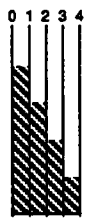
PROJECT: REN	COLLAR ELEVATION: 1360 m
HOLE: REN97-05	AZIMUTH: 000°
LOCATION: 7179960 N, 637160 E	DIP: -60°
LOGGED BY: C BAKER	LENGTH: 47 85
DRILLED BY: FALCON DRILLING	HORIZONTAL PROJECTION:
ASSAYED BY: CHEMEX	VERTICAL PROJECTION:
CORE SIZE: BTW	
DATE STARTED: 27/08/97	DATE COMPLETED: 28/08/97
DIP TESTS BY: NONE	

DEPTH	DIP	AZIM	DEPTH	DIP	AZIM

ALTERATION SCALE

absent
slight
moderate
intense

SULPHIDE SCALE



traces only
< 1%
1% – 3%
3% – 10%
> 10%

OBJECTIVE

TO TEST NI-MO-AS-PD-ZN SOIL GEOCHEMICAL ANOMALY ON THE MM GRID

SUMMARY LOG

LITHOLOGIES	MINERALIZATION
0-4.57 OVERBURDEN (CASED)	BARITE MINERALIZATION CONSISTING OF HYDRO-
4.57 - 11.3 ARGILLITE WITH MINOR CHERT	ZINCITE + ANNABERGITE PRESENT IN A HEAVILY
11.3 - 13.4 CHERTY ARGILLITE	CARBONATE ALTERED INTERVAL FROM 11.7 - 20
13.4 - 18.9 CALCAREOUS ARGILLITE	42.30m. SAMPLES INCLUDED 3m OF HANGING WALL,
18.9 - 22.9 CHERTY ARGILLITE	THE BARITE HORIZON, AND THE FOOTWALL TO THE
22.9 - 39.5 CALCAREOUS BARITE HORIZON	END OF THE HOLE
39.5 - 47.85 CALCAREOUS ARGILLITE	

PAGE 1 OF 4 | PROJECT REIN | HOLE 97-05

DEPTH (M)	% CORE REC	% RQD	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION: CA VNLTS	FRACTURE INTENSITY
					0-4.57 OVERBURDEN (CASING)		
4.57							
5.18	107	0		60°	4.57-11.3 ARGILLITE WITH MINOR CHERT		
				BEDDING	DARK GREY, FINE GRAINED AND DOMINANTLY		
	61	0	AR	30° BEDDING	MARINE. REACTION TO HCL IS MODERATE OVERALL		
8.23					BUT MAY BE LOCALLY WEAK. CALCITE VEINING		
9.45	61	0			IS MINOR BUT THE CORE IS VERY RUBBLY		
10				- BEDDING - 30°	SO AN ESTIMATION OF VEIN CONTENT IS DIFFICULT.		
	77	17			THE UNIT IS HARD BUT CAN BE SCRATCHED		
11.28			CHT.		WITH DIFFICULTY. MINOR JAROSITE IS PRESENT		
	100	27		BEDDING 70°	ON FRACTURES AND IN CARBONATE VEINS.		
					THE UNIT IS WEAKLY CONDUCTIVE IN THE		
14.33					UPPER 1.5m AND EXTREMELY WEAKLY CONDUCTIVE		
15	96	39	CA AR		THROUGHOUT THE REMAINDER. FRACTURES PARALLEL TO BEDS.		
					11.3-13.4 CHERTY ARGILLITE/SHALE		
17.37					DARK GREY IN COLOUR, GENERALLY MASSIVE, FINE		
	93	34		BEDDING @ 55° TO CA	GRAINED AND IS UNSCRATCHABLE WITH KNIFE.		
20.12					NO REACTION TO HCL EXCEPT FOR WEAK, HAIRLINE		
	46	19	CHT AR		CALCITE VEINING. CONDUCTIVITY IS VERY LOW.		
				BEDDING @ 60°	UPPER & LOWER CONTACTS DIFFUSE.		
22.9					13.4-18.9 CALCAREOUS ARGILLITE		
	102	47		CA VN @ 10°	DARK GREY IN COLOUR, VARIABLY HARD, & STRONG		
24.98 25					REACTION TO HCL NOTED. GRAIN SIZE IS UNIFORMLY		
	89	44		CA VEINLET @ 30°	FINE AND THE UNIT IS MASSIVE. CALCITE VEINING		
26.52				BEDDING 75°	IS WEAK AND JAROSITE IS COMMON ON MANY VEINS		
	94	23	CA. BR.	BEDDING 25°	AND SOME OF THE FRACTURES. AN INTERBED OF		
28.96					COARSER GRAINED CALCAREOUS SILTSTONE IS		
30	100	93		CA VEINLET @ 30° BEDDING @ 30°	PRESENT FROM 18.70m TO 18.94m WHICH GIVES A		
32.00					STRONG REACTION TO HCL ON THE UPPER SIDE OF		
				BEDDING @ 40°	THIS INTERVAL ARE THE POSSIBLE TRACE FOSSILS		
	100	57		CRINKLE BRECCIA	DESCRIBED IN 97-01. CONDUCTIVITY IS LOW THROUGH-		
34.35				BEDDING @ 40°	OUT THE INTERVAL. LOWER CONTACT IS SHARP AT		
35					BASE OF SILTY INTERVAL.		
	94	54			18.9-22.9 CHERTY ARGILLITE AS PER 11.3-13.4m. VERY MINOR CALCITE		
37.19				BEDDING @ 60°	VEINING PRESENT BUT NO EFFERVESCENCE IN MATRIX.		
	105	35			UNSCRATCHABLE & NEGLIGIBLE CONDUCTIVITY.		
38.71					LOWER CONTACT SHARP BUT IN RUBBLY CORE		
40	57	19			22.9-39.45 CALCAREOUS BARITE HORIZON		
41.15				CA VEINLET	MEDIUM-LIGHT GREY IN COLOUR WITH MEDIUM-DARK		
			CA. AR.	CALCITE BRECCIA	GREY POSSIBLE ALTERATION HALOES (± 2mm WIDTH)		
	82	49		BEDDING @ 40°	ALONG HEALED HAIRLINE JOINTS (THESE FEATURES		
44.91 45				BEDDING @ 50°	ARE UBIQUITOUS). SLIGHTLY DARKER GREY BEDDING		
					TRACES ARE NOTED THROUGHOUT THE UNIT ALSO (WAVEY)		
					THE BEDDING IS MILDLY CONVOLUTED IN PLACES.		

PAGE 2 OF 4	PROJECT	REIN	HOLE 97-05

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au ppb	Pt ppb	Pd ppb	Mo ppm	Ni ppm	Zn ppm
5		4.57	5.18	0.61	299765	a	<5	<2	40	142	494
		5.18	6.68	1.50	66	4	<5	4	56	143	408
		6.68	8.23	1.55	67	4	<5	4	38	133	570
		8.23	9.45	1.22	68	<2	<5	<2	48	116	388
10		9.45	11.30	1.85	69	<2	<5	<2	57	153	340
		11.30	13.40	2.10	299770	<2	<5	<2	74	193	620
		13.40	15.40	2.00	71	<2	<5	<2	47	252	1350
15											
		15.40	18.00	2.60	299772	<2	<5	<2	48	209	608
		180	200	2.0	299660	a	<5	a	58	182	674
20											
		200	210	1.0	299661	a	5	4	68	195	624
		21.0	23.0	2.0	299662	a	<5	4	65	170	472
		23.0	25.0	2.0	299663	<2	<5	a	3	39	336
25											
		25.0	27.0	2.0	299664	<2	<5	a	a	28	38
		27.0	29.0	2.0	299665	<2	<5	<2	<1	6	14
		29.0	31.0	2.0	299666	<2	<5	a	<1	a	16
30											
		31.0	33.0	2.0	299667	<2	<5	a	<1	5	24
		33.0	35.0	2.0	299668	<2	<5	a	a	11	28
35		35.0	37.0	2.0	299669	<2	<5	a	1	12	52
		37.0	39.0	2.0	299670	<2	<5	a	4	30	152
		39.0	39.45	0.45	299671	<2	<5	a	8	47	358
40		39.45	41.45	2.0	299672	a	5	a	24	90	1985
MINERALIZATION CONSISTED OF OXIDE MINERALS		41.45	42.15	0.7	299673	<2	<5	a	5	24	1040
OVER A SMALL INTERVAL FROM 42.2 TO 45.3 —		42.15	42.30	0.15	299674	a	<5	4	56	185	3230
WHERE INTENSE CALCITE BRECCIATION OCCURS ALSO.		42.30	43.0	0.7	299675	4	<5	12	63	188	3110
OXIDES INCLUDE ANNABERGITE AND VARY IN COLOUR		43.0	44.0	1.0	299676	a	5	8	78	193	4170
45 FROM AZURE LIME GREEN, FOREST (MODERATE)		44.0	45.0	1.0	299677	a	<5	6	57	163	3560
GREEN AND YELLOW GREEN. THE BARITE HOSTING WAS		45.0	45.4	0.4	299678	a	5	10	103	236	6250

PAGE 3 OF 4 | PROJECT REIN | HOLE 97-05

DEPTH (m)	% CORE REC	% RQD	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION (CA BANDS)	FRACTURE INTENSITY
	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 SURFACE SHELL IS STRONG. IN SOME SECTIONS THE PREVIOUSLY DESCRIBED ALTERATION HALOES (?) FORM A CRACKLE BRECCIA. THE MOST NOTABLE IS FROM 32.2 TO 33.4 m. BOTTOM CONTACT SHARP & STEPPED AT 90° TO CA.		
47.85 60M					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 SCRATCHABLE BUT IS GENERALLY HARD. THE UPPER 2.8m IS INTENSELY VEINED WITH PYRITE THEY VARY FROM <1mm TO APPROX 33cm WIDTH. THE SMALLER VEINS MAY FORM LOCAL PSEUDOBRECCIAS AND LADDER VEINS. JAROSITE IS PRESENT SPORADICALLY IN THE UPPER, STRONGLY VEINED SECTION. FROM 47.15m TO 47.30m, A SECTION OF STRONG CARB VEINING. ANKERITE IS PRESENT ON FRACTURE SURFACES AND IN SOME OF THE VEINS. ZINC-BAP APPLIED TO FRACTURES IN THIS INTERVAL TURNS A DEEP, RUSTY RED IN COLOUR. COLOURS OF OXIDE MINERALS IN THIS SECTION INCLUDE LIME-GREEN, PASTEL GREEN, AZURITE-LIKE BLUE & GROUNDMASS YELLOW. NO SULPHIDES PRESENT. UNIT IS MODERATELY TO STRONGLY CONDUCTIVE WITH LOCAL PATCHES OF WEAK CONDUCTIVITY		

PAGE 4 OF 4	PROJECT REIN	HOLE 97-05

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au ppb	Pt ppb	Pd ppb	Mo ppm	Ni ppm	Zn ppm
SAMPLED ALSO, SAMPLES EXTENDED INTO		45.40	46.50	1.10	299773	<4	<10	4	57	163	4320
THE FOOTWALL AND HANGING WALL BY											
3m EACH SIDE		46.50	47.85	1.35	299774	<2	<5	6	63	189	5040

PAGE	OF	PROJECT	HOLE

DEPTH (M)	% CORE REC	% RQD			LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION						FRACTURE INTENSITY

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT: REIN	COLLAR ELEVATION: 1360 m
HOLE: REN97-06	AZIMUTH: 000°
LOCATION: 7179960 N, 637160 E	DIP: -75°
LOGGED BY: C. BAKER	LENGTH: 41.76 m
DRILLED BY: FALCON DRILLING	HORIZONTAL PROJECTION:
ASSAYED BY: CHEMEX	VERTICAL PROJECTION:
CORE SIZE: BTW	
DATE STARTED: 28/08/97	DATE COMPLETED: 28/08/97
DIP TESTS BY: NONE	

DEPTH	DIP	AZIM	DEPTH	DIP	AZIM

ALTERATION SCALE

absent
slight
moderate
intense

SULPHIDE SCALE

traces only
< 1%
1% – 3%
3% – 10%
> 10%

OBJECTIVE

TO TEST Ni + As + Pd + Zn + Mo SOIL ANOMALY ON WEST SIDE OF NM - GRID

SUMMARY LOG

LITHOLOGIES.		MINERALIZATION
0 - 3.05	OVERBURDEN (CASED)	THE MINERALIZATION ENCOUNTERED ACCORDS
3.05 - 10.8	CHERTY ARGILLITE	BELOW THE BARITE HORIZON AND CONSISTED
10.8 - 17.0	ARGILLITE	OF ANNABERGITE, HEMATITE AND TALC
17.0 - 20.9	CHERTY ARGILLITE	SPHALERITE. SAMPLES WERE TAKEN FROM 3m
20.9 - 33.6	CALCAREOUS BLACK SHALE	ABOVE THE BARITE HORIZON TO THE END OF THE
33.6 - 35.6	CALCAREOUS BARITE HORIZON	HOLE. BEST INTERSECTION: 37.5 - 40.0m.
35.6 - 41.76	CHERTY SHALE	

* Hole caved in; 2 rods + core barrel lost in hole

PAGE 1 OF 3 | PROJECT REIN | HOLE 97-06

DEPTH (M)	% CORE REC	% RQD	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION (CA, VEINLETS)	FRACTURE INTENSITY
					0 - 3.05 OVERBURDEN (CASED)		
3.05	100	74			3.05 - 9.8 CHERTY ARGILLITE		
5.18				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				BEDDING @ 65°	THIS UNIT DOES GIVE A MILD REACTION TO HCL		
10	100	18			AND HAS SIGNIFICANT CALCITE VEINING THROUGH		
11.28					OUT. VEIN ORIENTATIONS ARE VARIABLE BUT		
	96	61	AR		THEY ARE DOMINANTLY PARALLEL/SUBPARALLEL		
					TO THE BEDDING PLANES. JAROSITE IS OFTEN		
					PRESENT ON FRACTURES AND, RARELY WITHIN		
					THE CALCITE VEINS. BELOW ~10 m THE MATRIX		
14.63					CALCITE CONTENT DROPS TO NEGLIGIBLE AMOUNTS.		
15	100	32		BEDDING @ 65°	HOWEVER, STRUCTURALLY CONTROLLED CALCITE IS UNCHANGED.		
					LOWER CONTACT GRADATIONAL. UNIT IS WEAKLY CONDUCTIVE		
17.37				10.8 - 17.0	ARGILLITE		
					SIMILAR IN COLOUR WITH VERY FINE GRAIN SIZE.		
	100	40	CA AR	BEDDING @ 65°	APPEARANCE TO ABOVE UNIT IS VERY SIMILAR		
20					EXCEPT MATRIX CALCITE CONTENT IS NEGLIGIBLE		
20.42					AND IT IS NOTABLY SOFTER. JAROSITE IS LESS		
	100	42			COMMON BUT IS STILL PRESENT ON BOTH VEINS AND		
23.49					FRACTURE SURFACES. LOWER CONTACT GRADATIONAL.		
				17.0 - 20.9	CHERTY ARGILLITE		
25	100	52		BEDDING @ 50° BEDDING @ 30°	AS PER 3.05 - 10.8 m IN GENERAL CHARACTERISTICS.		
			CA SH		CALCITE VEINING IS SIGNIFICANTLY LESS EXCEPT IN		
26.52					LOCALIZED ZONES OF A FEW cm WHERE VEINING		
	100	8			BECOMES MODERATE. JAROSITE IS RARE ON FRACTURE		
					SURFACES AND NEGLIGIBLE IN VEINS. LOWER CONTACT		
29.50					IS GRADATIONAL OVER 5 cm. UNIT IS NON-		
30	100	0			CONDUCTILE. CARBONATE CONTENT INCREASES BELOW 19.0 m		
32.61				20.9 - 33.6	CALCAREOUS BLACK SHALE		
				BEDDING @ 30°	FINE GRAINED, BUT SLIGHTLY COARSER THAN		
	78	0		BEDDING @ 30°	ABOVE UNITS, WEAKLY TO MODERATELY		
			CA BR	BEDDING @ 15°	CALCAREOUS AND SOFT. WITHIN THE UNIT ARE		
35					SHALE LENSES OF COARSE GRAINED SEDIMENT		
35.56					THAT ARE VERY SOFT (CAN BE INDENTED		
	100	0	CA SH	WEAK TO MODERATE CA BRECCIA	EASILY WITH FINGER NAIL). BEDDING		
38.71					LAMINATIONS ARE FINE THROUGHOUT AND RARE		
40	100	18		INTENSE CALCITE BRECCIA	CALCITE VEINS ARE DOMINANTLY PARALLEL TO		
					BEDDING. FRACTURING INCREASES SIGNIFICANTLY		
41.76					IN LOWER 3m OF UNIT. UNIT IS VERY WEAKLY		
EOH					CONDUCTIVE. LOWER CONTACT SHARP BUT ORIENTATION		
					OBSCURED AS RARELY CORE.		
				38.6 - 356	CALCAREOUS BARITE HORIZON		
45					MEDIUM GREY IN COLOUR WITH DISTINCT GREY BEDDING		

PAGE 2 OF 3	PROJECT	REIN	HOLE 97-06

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au ppb	Pt ppb	Pd ppb	Mo ppm	Ni ppm	Zn ppm
5											
10											
15											
20											
25											
30		30.0	31.0	1.0	299679	a	5	4	69	213	1220
		31.0	32.0	1.0	299680	a	<5	4	110	258	1100
		32.0	33.0	1.0	299681	a	5	4	125	276	532
		33.0	33.6	0.6	299682	a	<5	4	130	278	224
		33.6	34.0	0.4	299683	<a	<5	<a	5	17	38
35		34	35	1.0	299684	<a	<5	<a	3	12	42
TRACE AMOUNTS OF OXIDE MINERALS		35	35.6	0.6	299685	<a	<5	<a	a	10	446
PRESENT BELOW THE BARITE HORIZON		35.6	38.0	2.4	299686	a	<5	a	71	159	406
WHICH INCLUDED ANNABERGITE AND		38.0	39.0	1.0	299687	a	<5	a	65	165	476
HYDROZINCITE. ALSO, TRACE AMOUNTS		39.0	39.5	0.5	299688	a	5	4	92	221	4470
40 OF SPHALERITE WAS OBSERVED		39.5	40.0	0.5	299689	<a	<5	a	38	97	8240
WITHIN THE NARROW BRECCIA ZONE		40.0	40.6	0.6	299690	4	<5	6	80	124	4080
FROM 39.5 m TO 40.0 m.		40.6	41.76	1.16	299691	a	5	4	54	184	8030
45											

PAGE 3 OF 3 | PROJECT REIN | HOLE REN97-06

DEPTH (M)	% CORE REC	% RQD	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION	FRACTURE INTENSITY

TRACES. BEDDING IS HIGHLY WAVY IN ALTERED SECTIONS. BEDDING VARY BETWEEN 15° & 30° OVER THE INTERVAL. JAROSITE IS RARE ON FRACTURE SURFACES. LOWER CONTACT IS IN RUBBLY CORE THEREFORE ORIENTATION IS UNOBTAINABLE. UNIT IS MINOR CONDUCTILE AND BLOCKS STRONGLY TO WEAK.

356-418 CHERTY SHALE

DARK GREY MATRIX BUT UNIT IS SHOT THROUGH WITH CALCITE LENS HCL DOES NOT REACT WHEN PLACED ON THE MATRIX AND THE UNIT IS UNSCRATCHABLE WITH KNIFE. MINOR BRECCIATION IS LITHOLOGY BUT IN SOME SECTIONS BRECIATION IS INTENSE (395 – 400m). OXIDE MINERALS ARE PRESENT PROXIMAL TO THE ABOVE BRECCIATED INTERVAL & CONSIST OF ANNABERGITE & HYDROZINCITE. TRACE SPHALERITE OBSERVED IN ABOVE BRECCIA. ZINC-BAD PLATE ON THE OXIDE MINERALS TURNED A DEEP RUSTY RED INDICATING HYDROZINCITE OR ROYAL BLUE. JAROSITE IS PRESENT ON FRACTURES THROUGHOUT THE UNIT IS MODERATELY TO INTENSELY FRACTURED

HOLE LOST AT 416.76m DUE TO LOSS OF CORE BARREL IN BAD GROUND.

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT: REN	COLLAR ELEVATION: 1370m
HOLE: REN97-07	AZIMUTH: 000°
LOCATION: 7179865N 637365E	DIP: -50
LOGGED BY: C BAKER	LENGTH: 44.50 m
DRILLED BY: FALCON DRILLING	HORIZONTAL PROJECTION:
ASSAYED BY: CHEMEX LABS	VERTICAL PROJECTION:
CORE SIZE: BTW	
DATE STARTED: 29/08/97	DATE COMPLETED: 30/08/97

DIP TESTS BY: NONE

DEPTH	DIP	AZIM	DEPTH	DIP	AZIM

OBJECTIVE: TO TEST NL-MO-PD SOIL ANOMALY ON MM GRID -AS-ZN

ALTERATION SCALE

absent
slight
moderate
intense

SULPHIDE SCALE

traces only
< 1%
1% – 3%
3% – 10%
> 10%

SUMMARY LOG

LITHOLOGIES		MINERALIZATION
0 - 7.92	OVERBURDEN (CASED)	CONSISTED OF OXIDES FOUND OVER IN
7.92 - 15.5	CHERTY ARGILLITE	NARROW INTERVAL FROM 32.7 m TO 32.1 m.
15.5 - 23.2	BLACK SHALE	MOST COMMON SULPHIDE WAS ARSENOPYRITE, POSSIBLE
23.2 - 24.4	NO RECOVERY	VANADIUM OXIDES & MINOR BARITE
24.4 - 32.7	CALCAREOUS BARITE HORIZON	SAMPLES WERE TAKEN FROM 2.7 m ABOVE
32.7 - 40.6	CALCAREOUS ARGILLITE	THE BARITE HORIZON TO 3 m BELOW THE
40.6 - 42.5	CHERTY ARGILLITE	BARITE HORIZON.
42.5 - 44.5	BLACK SHALE	

PAGE 1 OF 3	PROJECT REIN	HOLE 97-07

DEPTH (M)	% CORE REC	% RQD	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION (CA VNLTS)	FRACTURE INTENSITY
					0-7.92 OVERBURDEN		
5							
7.92							
	44	0			7.92-16.00 CHERTY ARGILLITE		
10					DARK GREY IN COLOUR WITH UNSCRATCHABLE		
10.97					MATRIX, NO REACTION TO HCL. ABUNDANT		
	131	0	CH AR		JAROSITE THROUGHOUT ON FRACTURE SURFACES.		
12.19					CORE IS EXTREMELY RUBBLE SO NO STRUCTURAL		
	19	0			MEASUREMENTS OBTAINED. VERY WEAK CALCITE VEINING		
14.02					NOTED IN LARGER PIECES OF CORE. GRAIN SIZE IS		
15	26	0			UNIFORMLY FINE THROUGHOUT THE UNIT LOWER CONTACT		
					GRADATIONAL. UNIT IS NON-CONDUCTIVE		
17.07			BL SH		16.0-23.2 BLACK SHALE		
	16	0			VERY SOFT & FRIABLE. UNIT IS MASSIVE AND HAS		
20					A LOCAL WEAK REACTION TO HCL. FINE GRAINED		
20.12	16	0			THROUGHOUT. UNIT IS VERY WEAKLY CONDUCTIVE.		
21.4							
	26	0			23.16m - 24.38m NO RECOVERY		
23.16	NO RECOVERY						
24.38					24.4-32.7 CALCAREOUS BARITE HORIZON		
25 25.68	96	0			LIGHT GREY IN COLOUR WITH FINE TO MEDIUM GRAIN SIZE.		
	41	0			THE UNIT REACTS STRONGLY TO HCL. THE UNIT IS MODERATELY		
26.82	29	0			BEDDING @ 50° TO CA		
27.13	103	23	CA		BRECCIA		
27.74			BA		BEDDING @ 40°		
	84	60			VEINED WITH CALCITE AND IS WEAKLY BRECCIATED IN		
29.26					BEDDING @ 70°		
30	98	26			BRECCIATION		
30.48					SEDIMENTS WERE TAKEN UP INTO THE BARITE		
	103	46			HORIZON DURING BRECCIATION. THE BEDDING IS		
32.31	55	0			CALCITE VEINING @ 70° BEDDING @ 75°		
					VARIABLE THROUGHOUT. THE UPPER 1.5m OF THE		
	94	23			INTERVAL HAS MODERATE JAROSITE ON THE FRACTURES.		
35					BEDDING @ 75°		
35.36							
			CA AR		32.7-40.6 CALCAREOUS ARGILLITE		
	81	34			DARK GREY IN COLOUR WITH UNIFORMLY FINE		
38.4					GRAIN SIZE. THE UNIT IS VERY HARD AND		
					REACTS STRONGLY TO HCL. CALCITE VEINING		
40	100	9			BEDDING @ 65°		
					IS WEAK OVERALL BUT AT THE TOP OF THE		
41.45					UNIT IT IS SLIGHTLY MORE INTENSE. IN THIS		
			CH AR		CONTACT @ 70°		
	103	34	BL SH		NARROW ZONE ABUNDANT VEINING MINOR AMOUNTS		
					OF ANHYDRITE WAS OBSERVED WITH MINOR JAROSITE		
					ALSO. NO REACTION TO ZINC ZAP OBSERVED.		
44.5					LOWER IN THE UNIT ARE SLIGHTLY COARSER GRAINED		
45					SILTY INTERVALS WHICH ARE RELATIVELY CARBONACEOUS.		

PAGE 2 OF 3	PROJECT REIN	HOLE 97-07

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au ppb	Pt ppb	Pd ppb	Mo ppm	Ni ppm	Zn ppm
5											
		7.92	10.97	3.05	299775	<2	<5	2	22	113	664
10											
		10.97	12.19	1.22	76	<2	<5	<2	25	38	214
		12.19	14.02	1.83	77	<2	<5	<2	21	37	186
15		14.02	16.50	2.48	78	<2	<5	<2	38	112	304
		16.50	17.07	0.57	79	<2	<5	<2	35	228	564
		17.07	20.12	3.05	299780	<2	<5	2	63	2490	3740
20		20.12	21.64	1.52	299781	2	<5	2	56	166	1225
		21.64	23.16	1.52	299692	6	10	12	234	5170	43260
		23.16	24.38	1.22	NO	RECOVERY					
25		24.38	25.60	1.22	299693	<2	<5	<2	3	18	160
		25.6	26.8	1.2	299694	<2	<5	2	6	138	246
		26.8	28	1.2	299695	<2	<5	<2	1	22	70
		28.0	29.3	1.3	299696	<2	<5	<2	<1	30	20
30		29.3	30.5	1.2	299697	<2	<5	2	6	52	40
MINERALIZATION OCCURS AS ANNABERGITE		30.5	30.70	1.2	299698	<2	<5	<2	5	36	2
IN A NARROW ZONE (35cm) IMMEDIATELY		31.7	32.7	1.0	299699	<2	<5	2	10	67	24
BENEATH THE CALCAREOUS BARITE HORIZON.		32.7	33.1	0.4	299700	2	5	4	63	6330	3420
SAMPLES EXTENDED 2.8m INTO THE		33.1	34.1	1.0	299701	2	<5	4	78	2350	390
35 HANGING WALL, THROUGH THE BARITE		34.1	35.1	1.0	299702	<2	<5	2	58	398	456
HORIZON AND 2m INTO THE FOOTWALL		35.1	36.1	1.0	299703	4	<10	8	66	231	436
		36.10	38.40	2.30	299782	<2	<5	<2	63	203	308
		38.40	40.60	2.20	83	<2	<5	<2	44	183	362
40											
		40.60	42.50	1.90	84	4	<5	<2	53	159	1560
		42.50	44.50	2.00	85	<2	<5	<2	90	278	788
45											

PAGE 3 OF 3 | PROJECT REIN | HOLE 97-07

DEPTH (M)	% CORE REC	% RQD	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION	FRACTURE INTENSITY
					LOWER CONTACT GRADATIONAL OVER APPROX 2cm		
				42.6-42.5	CHERTY ARGILLITE		
					AS PER 7.6-15.5m. CALCITE VEINING IS WEAK		
					AND TRACE JAROSITE NOTED ON FRACTURE		
					SURFACES. THE UNIT IS MODERATELY CONDUCTIVE		
					BOTTOM CONTACT SHARP @ 70° TO CA. WEAKLY CONDUCTIVE		
				42.5-44.5	BLACK SHALE		
					AS PER 15.5-23.16m IN APPEARANCE EXCEPT		
					THE UNIT IS MODERATELY CONDUCTIVE AND		
					ONLY A VERY LOCALIZED WEAK REACTION TO		
					HCl NOTED.		

EQUITY ENGINEERING LTD.

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: BTW	
DATE STARTED: 30/08/97	DATE COMPLETED: 21/09/97
DIP TESTS BY: NONE	

DEPTH	DIP	AZIM	DEPTH	DIP	AZIM

OBJECTIVE

TO TEST NI-MO-PD-AS-ZN SOIL GEOCHEMICAL ANOMALY ON THE MM GRID

ALTERATION SCALE

absent
slight
moderate
intense

SULPHIDE SCALE

traces only
< 1%
1% – 3%
3% – 10%
> 10%

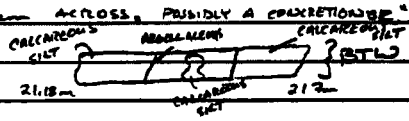
SUMMARY LOG

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 HYDROBIOTITE, FRACTURE
29.9-31.9	FOSSILIFEROUS EVENT BED	CONTROLLED ANNABERGITE & TRACE ANNABERGITE IN CALCITE VEINS WITH
31.9-32.6	LIMESTONE BALL	HYDROBIOTITE. SIGNIFICANT GOETHITE AND ANNABERGITE IN CALCAREOUS BARITE
32.6-33.75	FOSSILIFEROUS EVENT BED	HORIZON. SAMPLES TAKEN FROM 52.3m TO 66.2m. 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 HYDROBIOTITE
34.95-35.2	LIMESTONE BALL	
35.2-40.6	BLACK SHALE	
40.6-49.9	CALCAREOUS BARITE 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: CA VEINLETS	GYPSUM VEINLETS	JAROSITE	GOETHITE	FRACTURE INTENSITY
					0-4.57 OVERBURDEN (CASED)					
4.57 / 5.18	100	0			4.57-8.2 BLACK SHALE					
	36	0	BL SH		BLACK WITH UNIFORM FINE GRAIN SIZE. NO MATRIX CALCITE & UNIT IS QUITE SOFT AND FRIABLE.					
8.23	74	27	CH AR ?		CORE IS VERY RUBBLY MAKING STRUCTURAL MEASUREMENTS IMPOSSIBLE. VERY WEAKLY CONDUCTIVE, TRACE JAROSITE					
10 / 10.52	92	0			92-95 CHERTY ARGILLITE DARK GREY IN COLOUR. FINE GRAINED AND UNSCRATCHABLE MATRIX CALCITE CONTENT IS LOW BUT CALCITE VEINING IS LOW TO LOCALLY MODERATE. JAROSITE IS PRESENT ON FRACTURES AND WITHIN THE CALCITE VEINS. NON-CONDUCTIVE. UPPER AND LOWER CONTACTS SHARP BUT IN RUBBLY CORE. NON CONDUCTIVE					
12.80 / 14.33	42	0								
15	92	5			BEDDING @ 75° CLAY SEAM					
17.37	33	0			9.5-21.2 BLACK SHALE AS PER 4.57-8.23m. CALCITE VEINING IS HIGHER THAN ABOVE BLACK SHALE AND JAROSITE PRESENT ON SOME FRACTURES AND IN CARBONATE VEINS. AT 15.2m A 15cm, RELATIVELY WELL BEDDED & HARD SECTION OCCURS WHICH CONTAINS FINELY BEDDED ARGILLACEOUS MATERIAL AND HEMATITE. THE REMAINDER OF THE UNIT IS RUBBLE A NARROW 6.3mm WIDE CLAY SEAM OCCURS AT 17.1m DEPTH. REACTION TO HCL IS SPORADIC AND WEAK. THE UNIT IS WEAKLY TO MODERATELY CONDUCTIVE					
20 / 20.42	100	0			BEDDING @ 50°					
21.18	100	28	SILTY							
23.47	100	0			BEDDING @ 65°					
25 / 25.30	100	5	BL SH		BEDDING @ 70°					
28.04	95	17			21.2-21.7 SILTY LIMESTONE / ARGILLITE MEDIUM-DARK GREY IN COLOUR WITH COARSER GRAIN SIZE. REACTION 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 & COARSER GRAINED; INNER 20cm IS FINE GRAINED & NON REACTIVE; IN THE CENTER OF THIS SECTION IS AN AMEOBOID SHAPED, COARSER GRAINED & STRONGLY CALCAREOUS BODY APPROX 2cm ACROSS. POSSIBLY A CONCRETIONARY "LIMESTONE BALL".					
30 / 31.09	100	95	F.E.B. L.B. FEB		LIMESTONE BALL BEDDING @ 45°					
34.14 / 35	100	57	L.B. FEB L.B.		LIMESTONE BALL BEDDING @ 80° LIMESTONE BALL					
37.19	79	35	BL SH							
38.71	77	20			BEDDING @ 85°					
39.93 / 40	100	81			WEAKLY CONDUCTIVE THROUGHOUT.					
41.76	100	69	CA BA		21.7-29.9 BLACK SHALE AS PER 4.57-8.23 & IS WEAKLY CALCAREOUS THROUGHOUT. PARTINGS ARE PARALLEL TO BEDDING. TRACE CALCITE VEINING LOWER CONTACT IN RUBBLE					
44.81 / 45										



PAGE 2 OF 5	PROJECT REIN	HOLE 97-08

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au ppb	Pt ppb	Pd ppb	Mo ppm	Ni ppm	Zn ppm
5		4.57	8.23	3.66	299786	6	<5	4	28	38	246
		8.23	9.50	1.27	87	<2	<5	<2	41	233	1130
10		9.50	10.52	1.02	88	<2	<5	<2	67	227	1210
		10.52	12.80	2.28	89	<2	<5	4	70	71	216
		12.80	14.33	1.53	299790	<2	<5	<2	69	216	2470
15		14.33	15.83	1.50	91	4	<10	<4	64	184	534
		15.83	17.37	1.54	92	<2	<5	<2	66	49	56
		17.37	20.42	3.05	93	<2	<5	<2	45	308	484
20											
		20.42	21.18	0.76	94	<2	<5	<2	40	190	860
		21.18	21.70	0.52	95	<2	<5	<2	63	370	588
		21.70	23.70	2.00	96	<2	<5	<2	70	297	928
		23.70	25.30	1.60	97	<2	<5	<2	67	219	326
25		25.3	27.0	1.7	299704	4	<5	4	73	273	412
		27.0	29.0	2.0	299705	2	<5	4	71	309	290
		29.0	29.9	0.9	299706	18	30	24	103	2290	1025
FOSSILIFEROUS EVENT BED CONTAINS SIGNIFICANT		29.9	31.0	1.1	299707	8	50	30	182	6690	3710
30 IRON THROUGHOUT, ZINC-ZAP PLACED ON		31.0	31.9	0.9	299708	12	105	62	314	>10,000	1.41%
ON EVENT BED TURNED PRIMARILY BLUE BUT		31.9	32.6	0.7	299709	4	20	18	133	>10,000	3220
ALSO RUSTY RED INDICATING HYDROZINCITE		32.60	33.75	1.15	299710	14	130	78	330	>10,000	8030
TRACE ANNABERGITE NOTED ON FRACTURES		33.75	34.04	0.29	299711	6	25	18	107	8760	4010
AND IN CALCITE VEINS WHICH ALSO CONTAINED											
35 TRACE HYDROZINCITE. THE BARITE HORIZON		34.04	34.95	0.91	299712	6	50	32	262	>10,000	7380
IS UNMINERALIZED EXCEPT FOR GOETHITE &		34.95	35.2	0.25	299713	2	5	6	44	7220	3400
TAROLITE (ZINC-ZAP INDICATE IRON ONLY)		35.2	37.2	2.0	299714	2	<5	4	80	1430	1030
		37.2	39.2	2.0	299715	4	5	8	99	3270	2960
40		39.2	40.6	1.4	299716	2	<5	4	67	1200	2840
		40.6	42.6	2.0	299717	<2	<5	<2	4	652	1810
		42.6	44.6	2.0	299718	<2	5	4	18	1260	4180
45		44.6	46.6	2.0	299719	<2	<5	<2	4	434	5050
		46.6	48.6	2.0	299720	<2	<5	2	7	590	7000

PAGE 3 OF 5 | PROJECT REIN | HOLE 97-08

DEPTH (M)	% CORE REC	% RQD	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION: CA VEINLETS	ALTERATION: GYPSUM VEINLETS	ALTERATION: JAROSITE	ALTERATION: CARBONATE	FRACTURE INTENSITY
					29.9-31.9 FOSSILIFEROUS EVENT BED					
47.85	100	56			MOTTLED OLIVE GREEN & BROWN. UNIT IS					
					MODERATELY SOFT AND CONSISTS OF CRINOID					
					OSICLES AND SMALL (<2mm) BIVALVE SHELL					
50	100	52		CONTACT @ 65° FAULT @ 30°	FRAGMENTS IN A MATRIX OF SILT. CALCITE					
50.70			SL		IS VIRTUALLY NON-EXISTANT EXCEPT FOR RARE					
			SH	CONTACT @ 40° BEDDING @ 40° CONTACTS	RIP-UP CLASTS OF WEAKLY CALCAREOUS SILT.					
	100	53			JAROSITE IS UBIQUITOUS. ZINC-ZAP POURED ON (INDICATING HYDROZINCITE)					
53.90			CH AR		THIS UNIT TURNED A RUSTY ORANGE-RED WHEN					
					BOTTOM 10cm OF UNIT IS A ROUND CALCAREOUS					
55	100	77			BODY WITH A SHARP BOUNDARY THAT MEASURES					
57.00					7cm ACROSS LARGEST DIMENSION (CONCRETION)					
					31.9-32.6 LIMESTONE BALL (CONCRETION)					
	100	57	AR LS		MEDIUM DARK GREY IN COLOUR. STRONG REACTION TO					
60.05				BEDDING @ 55°	HCL EXCEPT IN NARROW (<7mm) ZONES WITHIN THE					
				F	OUTER 15cm OF EACH SIDE THAT DO NOT REACT.					
	100	69		BEDDING @ 10°	UPPER AND LOWER CONTACTS SHARP AND CONCAVE					
63.10					CONCAVE SIDES OF THE CONTACTS FACE TOWARDS					
				BEDDING @ 55°	EACH OTHER. TRACE AMOUNTS OF ANNABERGITE					
	95	55			PRESENT IN CARBONATE VEINS AND ON FRACTURES					
65.15 EOH					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 0.5mm WIDE					
					CARBONATE VEIN CONTAINING JAROSITE AND					
					TRACE ANNABERGITE & HYDROZINCITE 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 VUGGY CALCITE VEIN SMALL, PRISMATIC					
					GYPSUM CRYSTALS (UP TO 3mm LONG) WERE NOTED					
					35.2-40.6 BLACK SHALE					
					AS PER 4.59-8.23m EXCEPT CALCITE VEINING					
					IS MORE INTENSE. JAROSITE IS COMMON WITH THE FAINTER					
					VEINING WHICH BECOMES MORE INTENSE BELOW					
					39.9m. MINOR OXIDATION AT 40.8m WHERE					
					CALCITE FORMS THE MATRIX AND GYPSUM CRYSTALS					
					ARE FOUND IN OPEN SPACES. BOTTOM CONTACT					
					SHARP AT 75°					
					40.6-49.9 CALCAREOUS BARITE HORIZON					
	1				PATCHY MEDIUM GREY W/ CARBONATE (TR. JAROSITE) & SILICIFIED					
					BRECCIATION THROUGHOUT THE UNIT. UNIT -					

PAGE 4 OF 5	PROJECT REIN	HOLE 97-08

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au ppb	Pt ppb	Pd ppb	Mo ppm	Ni ppm	Zn ppm
		48.6	49.9	1.3	299721	<2	<5	<2	10	829	7620
SD		49.9	50.6	0.7	299722	6	10	6	135	815	1050
		50.6	51.1	0.5	299723	<2	<5	<2	47	2930	4410
		51.1	52.5	1.4	299724	12	50	36	257	1930	1080
		52.5	54.5	2.0	299725	<2	<5	4	67	1550	2130
55 TRACE AMOUNTS OF ANNABERGITE NOTED		54.5	56.1	1.6	299726	<2	<5	4	50	415	1270
IN THE INTERVAL 52.5 TO 56.1 m.		56.1	58.1	2.0	299727	4	15	12	93	431	952
MODE OF OCCURENCE IS FRACTURE COATINGS											
AND IN NARROW CALCITE VEINLETS.		58.1	60.1	2.0	299728	2	<5	8	48	253	3800
A NARROW BRECCIA ZONE FROM 53.0 - 53.1 m											
60 CONTAINS BOTH ANNABERGITE AND HYDRO-		60.1	62.1	2.0	299729	4	<5	8	49	192	2930
BIOTITE.											
		62.1	64.1	2.0	299730	<2	5	6	60	234	2990
		64.1	66.15	2.05	299731	<2	<5	8	75	253	3680
65											
										1	

PAGE 6 OF 5 | PROJECT REIN | HOLE 97-08

DEPTH (M)	% CORE REC	% RQD	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION	FRACTURE INTENSITY
					VARIABLY BRECCIATED THROUGHOUT AND THE GOETHITE & SERICITE ARE GENERALLY ASSOCIATED IN THE BRECCIATED 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 BRECCIATED WITH UBIQUITOUS GOETHITE/ JAROSITE AND SERICITE (MINOR). GYPSUM VEINS ARE RARE IN THE BARITE MORIBON AND HAVE GOETHITE ALONG VEIN BOUNDARIES.		
					499-506 BLACK SHALE AS PER 457-823, LOWER 20cm IS FAULTED AND CALCITE + MINOR JAROSITE, LOWER CONTACT SHARP @ 40°		
					506-511 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.		
					511-525 SHALE DARK GREY, FINE GRAINED, SOFT, NONCALCAREOUS. TRACE JAROSITE + LIMONITE ON FRACTURE SURFACES. LOWER CONTACT DIFFUSE. WEAK CONDUCTIVITY		
					525-581 CHERTY ARGILLITE DARK GREY, FINE GRAINED, UNFRACTURABLE + NON-CALCAREOUS. CALCITE VEINING IS WEAK TO MODERATE WITH INTENSITY INCREASING DOWN-HOLE. ANNABERGITE PRESENT ON FRACTURES AND TRACE HYDROBIOTITE NOTED IN A NARROW CALCITE BRECCIA FROM 555.0 TO 551m. NON CONDUCTIVE		
					581-662 ARGILLACEOUS LIMESTONE DARK GREY, FINE GRAINED, FINELY LAMINATED. MODERATELY TO STRONGLY CALCAREOUS. RARE TENTICULITES PRESENT. UNIT IS QUITE HARD BUT SCRATCHABLE + CALCITE VEINING IS INTENSE AT TOP + DECREASES TO MODERATE DOWN-HOLE. NON CONDUCTIVE.		

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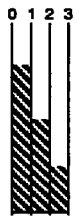
DRILL LOG

PROJECT REIN	COLLAR ELEVATION 1360m
HOLE REN 97-09	AZIMUTH 340°
LOCATION 7179900 N 638010 E	DIP -70°
LOGGED BY C BAKER	LENGTH 53.04 m
DRILLED BY FALCON DRILLING	HORIZONTAL PROJECTION
ASSAYED BY CHEMEX LABS	VERTICAL PROJECTION
CORE SIZE BTW	
DATE STARTED 31/08/97	DATE COMPLETED 01/09/97
DIP TESTS BY NONE	

DEPTH	DIP	AZIM	DEPTH	DIP	AZIM

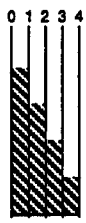
ALTERATION SCALE

0 1 2 3



absent
slight
moderate
intense

SULPHIDE SCALE



0 1 2 3 4

traces only
< 1%
1% – 3%
3% – 10%
> 10%

OBJECTIVE

SUMMARY LOG

LITHOLOGY.		MINERALIZATION:
0 - 14.94	OVERBURDEN (CASED)	LIMONITE AND JAROSITE UBIQUITOUS THROUGHOUT
14.94 - 17.8	BLACK SHALE	TRACE AMOUNTS OF HYDROXYDATE PRESENT IN
17.8 - 19.5	CALCAREOUS ARGILLITE	NARROW BRECCIA ZONES FROM 24.5 TO 28.6m AND
19.5 - 47.2	CHERTY ARGILLITE	FROM 31.4 TO 31.7m. TRACE AMOUNTS OF TARNISHED PYRITE
47.2 - 53.0	ARGILLACEOUS LIMESTONE	AND ANNABERGITE NOTED OVER 30cm OF BROKEN CORE
		BELOW 46.6m TRACE SULVINITE NOTED IN CARBONATE VEIN
		FROM 51.6 TO 52.0m. SAMPLES TAKEN FROM 27.0 - 53.0m

PAGE 1 OF 4	PROJECT REIN	HOLE 97-09

DEPTH (M)	% CORE REC	% RQD	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION: CA VEINLETS	JAROSITE	LIMONITE	FRACTURE INTENSITY
					0-14.94 OVERBURDEN (CASED)				
5									
10									
14.94									
15	63	13			14.94-17.8 BLACK SHALE FINE GRAINED, SOFT AND WEAKLY FISSILE. NON CALCAREOUS & VERY WEAKLY CONDUCTIVE TRACE LIMONITE ON FRACTURE SURFACES. BOTTOM CONTACT DIFFUSE.				
17.99	83	50							
19.57									
20	97	30			17.8-19.5 CALCAREOUS ARGILLITE DARK GREY WITH SLIGHTLY LIGHTER GREY SUBCIRCULAR MOTTLES UNIT IS HARD BUT SCRATCHABLE REACTION TO HCL IS MODERATE BUT LIGHTER MOTTLES ARE SLIGHTLY MORE REACTIVE (POSSIBLE BIOTURBATION?). JAROSITE AND LIMONITE ARE TRACE ON FRACTURE SURFACES CALCITE VEINING IS TRACE. VERY WEAKLY CONDUCTIVE				
22.56	53	62		BEDS @ 60°					
25	91	39		BEDS @ 60°					
25.6	88	14							
28.65					19.5-47.2 CHERTY ARGILLITE DARK GREY, UNSCRATCHABLE, NON CALCAREOUS LIMONITE AND JAROSITE ARE COMMON FRACTURE SURFACES AND JAROSITE IS PRESENT IN SOME CALCITE VEINS. PARTINGS ARE [illegible] TO BEDS. EXTREMELY WEAK CONDUCTIVITY. [illegible] CALCITE BRECCIA ZONES FROM 28.5-28.6m & 31.4-31.7m WHICH CONTAIN TRACE AMOUNTS OF [illegible] [illegible]. BELOW 27.5m CALCITE VEINING BECOMES TRACE AND LIMONITE/JAROSITE ALSO BECOME TRACE UNTIL 28.8m. FROM 45.6m TO 45.9m OCCURS ANOTHER CALCITE BRECCIA ZONE THAT CONTAINS VERY MINOR GYPSUM AND ABUNDANT LIMONITE. BELOW THIS ZONE FOR 30cm IS A ZONE OF BROKEN CORE THAT HAS TRACE TARNISHED PYRITE AND ANNABERGITE. LOWER CONTACT SHARP & MARKED BY LARGE CALCITE VEIN				
30	87	7		FAULT @ ? CALCITE BRECCIA					
31.7	88	69							
37.75									
35	100	15							
37.8	101	0		BEDDING @ 50°					
40									
40.84	80	19							
43.49				BEDDING @ 60°					
45				BEDDING @ 80°					

PAGE 2 OF 4	PROJECT REIN	HOLE 07-09

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au ppb	Pt ppb	Pd ppb	Mo ppm	Ni ppm	Zn ppm
5											
10											
15		14.94	17.80	2.86	299798	2	<5	2	26	183	1375
		17.80	19.50	1.70	99	<2	<5	<2	4	85	796
20		19.50	21.50	2.00	299800	4	<5	4	34	96	364
		21.50	22.56	1.06	299851	8	<5	6	23	39	78
		22.56	24.67	2.11	52	12	<5	10	21	35	80
25		24.67	27.00	2.33	299853	4	<5	4	29	65	300
		27.0	28.0	1.0	299732	6	<5	6	33	67	240
TRACE HYDROZINCITE NOTED IN BIOTITIC		28.0	29.0	1.0	299733	4	<10	4	81	871	2420
30 BANDS FROM 28.5 TO 28.6 AND FROM		29.0	30.0	1.0	299734	6	5	6	31	153	602
31.4 TO 31.7 . NARROW FRACTURE ZONE		30.0	31.0	1.0	299735	2	<5	6	35	190	1260
FROM 46.6 TO 46.9 CONTAINS TRACE		31.0	32.0	1.0	299736	2	<5	8	29	84	390
AMOUNTS OF TARNISHED PYRITE AND		32.0	34.0	2.0	299737	2	<5	4	30	115	556
CHALCOPYRITE. LIMONITE AND JAROSITE											
35 ULTRAMAFITICS		34.0	36.0	2.0	299738	<2	<5	6	24	80	240
		36.0	38.0	2.0	299739	<2	5	6	29	93	336
		38.0	40.0	2.0	299740	2	<5	4	23	167	1060
40											
		40.0	42.0	2.0	299741	<2	<5	2	33	98	516
		42.0	44.0	2.0	299742	<2	<5	8	44	144	694
45		44.0	45.9	1.9	299743	<2	<5	4	37	348	5310
		45.9	46.2	0.3	299744	<2	<5	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
					47.2-53.04	CALCAREOUS SHALE	
46.94	83	17			CALCITE VEIN @ 40° (LOWER CONTACT)	DARK GREY IN COLOUR, MODERATELY HARD WITH	
	98	23	CA		CALCITE VEIN CLIK	MODERATE REACTION TO HCL. UNIFORMLY FINE GRAINED	
48.99 50			SH		@ 50° CALCITE VEINS + CLIK	+ FINELY BEDDED. 3 LARGE CALCITE VEINS	
	102	35			CLIKS	INCLUDED (UP TO 40cm WIDTH) + CONTAIN TRACE	
						SULPHIDE. ABUNDANT POLISHED SLICKENSIDES	
						WEAKLY TO MODERATELY CONDUCTIVE. TRACE SULPHIDE	
						IN ABOVE 40cm WIDE CALCITE VEIN.	
52.04 EOIT						PARTINGS PARALLEL TO BEDDING.	
55							

PAGE 4 OF 4 | PROJECT REIN | HOLE 97-09

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au ppb	Pt ppb	Pd ppb	Mo ppm	Ni ppm	Zn ppm
		46.2	47.2	1.0	299745	2	<5	4	49	363	1510
		47.2	49.2	2.0	299746	<2	<5	2	43	175	382
		49.2	51.2	2.0	299747	<2	<5	2	43	136	200
		51.2	53.04	1.84	299748	<2	<5	4	98	205	442
50											
BOH 53.0m											
55											

PAGE OF

PROJECT

HOLE

DEPTH (m)	% CORE REC	% RQD			LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION						FRACTURE INTENSITY

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT: REIN	COLLAR ELEVATION: 1375m
HOLE: REN97-10	AZIMUTH: 010°
LOCATION: 7174530N 640735E	DIP: -70°
LOGGED BY: C. BAKER	LENGTH: 5.18 m
DRILLED BY: FALCON DRILLING	HORIZONTAL PROJECTION:
ASSAYED BY: CHEMEX LABS	VERTICAL PROJECTION:
CORE SIZE: BTW	
DATE STARTED: 01/09/97	DATE COMPLETED: 02/09/97
DIP TESTS BY: NONE	

DEPTH	DIP	AZIM	DEPTH	DIP	AZIM

ALTERATION SCALE

absent
slight
moderate
intense

SULPHIDE SCALE

traces only
< 1%
1% – 3%
3% – 10%
> 10%

OBJECTIVE

TO TEST NI-AS-MO-PD-ZN GEOCHEM ANOMALY ON THE WEST END OF THE EAST CLAIM BLOCK

SUMMARY LOG

LITHOLOGY

0 - 3.05 OVERBURDEN (CASED)

3.05 - 5.18 CHERTY ARGILLITE

HOLE LOST WITH CORE BARREL AT 5.18m.

PAGE 1 OF 1 | PROJECT | HOLE 97-10

DEPTH (M)	% CORE REC	% RQD	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION: CA VEINS	JAROSITE	LIMONITE	FRACTURE INTENSITY
					0 3.05 OVERBURDEN (CASED)				
4.88 5.18	60	0			3.05-5.18 CHERTY ARGILLITE				
	66	0			DARK GREY, FINE GRAINED, LAMINATED/BANDED.				
					MINOR JAROSITE & LIMONITE ON BROKEN				
					SURFACES. CORE IS RUBBLE, NO CALCITE				
					VEINS				

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT: REIN	COLLAR ELEVATION: 1375m
HOLE: REN97-11	AZIMUTH: 010°
LOCATION: 7174530 N, 640735 E	DIP: -80°
LOGGED BY: C. BAKER	LENGTH: 53.64m
DRILLED BY: FALCON DRILLING	HORIZONTAL PROJECTION:
ASSAYED BY: CHEMEX LABS	VERTICAL PROJECTION:
CORE SIZE: BTW	
DATE STARTED: 01/09/97	DATE COMPLETED: 03/07/97
DIP TESTS BY: NONE	

DEPTH	DIP	AZIM	DEPTH	DIP	AZIM

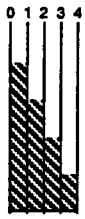
OBJECTIVE

TO TEST NI-MO-AS-PD-ZN GEOCHEM ANOMALY ON THE WEST SIDE OF THE EAST CLAIM BLOCK.

ALTERATION SCALE

absent
slight
moderate
intense

SULPHIDE SCALE



traces only
< 1%
1% – 3%
3% – 10%
> 10%

SUMMARY LOG

LITHOLOGY	MINERALIZATION
00-3.05 - [illegible] (CASED)	ZONE POSSIBLY REMOVED BY FAULTING
3.05-22.2 CHERTY ARGILLITE	TRACE HYDROZINCITE NOTED IN CALCITE
22.2-25.3 CALCAREOUS ARGILLITE	VEIN @ 22.5m.
25.3-42.9 BLACK CHERTS WITH SILTY LIMESTONE INTERBEDS	
42.9-53.64 BLACK SHALES.	

PAGE 1 OF 4 | PROJECT REIN | HOLE 97-11

DEPTH (M)	% CORE REC	% RQD	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION: CA VEINLETS	LIMONITE	JAROSITE	FRACTURE INTENSITY
					0-3.05 OVERBURDEN (CASED). CASING LATER REAMED TO 6.1 m.				
4.88 5	82	0			3.05-22.2 CHERTY ARGILLITE DARK GREY, DOMINANTLY FINE GRAINED WITH MINOR SILTY INTERBEDS. GENERALLY MASSIVE WITH MINOR CALCITE VEINS. NON-CALCAREOUS & UNDISTINGUISHABLE. LIMONITE AND JAROSITE ON FRACTURE SURFACES TRACE HYDROBIOTITE IN NARROW, SUBPARALLEL QUARTZ VEINS @ 21.7m. LOWER CONTACT FAULTED.				
7.92	69	0	CA AR	BEDDING @ 70°					
10 10.97	89	0		BEDDING @ 50°					
	92	0		BEDDING @ 35°					
14.02 15	85	11			22.2-25.3 CALCAREOUS ARGILLITE DARK GREY AND FINE GRAINED WITH WEAK 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				
17.07	6	0		BEDDING @ 75°					
20 20.12	94	8		BEDDING @ 70° LOWER CONTACT @ 70° FOLIA @ 75°					
23.46 25	96	4	CA AR	? BEDDING @ 80°	25.3-42.9 INTERBEDDED BLACK SHALES AND SILTY LIMESTONES DOMINANTLY BLACK & FINE GRAINED WITH COMMON SILTY LIMESTONE BEDS UP TO 0.5m 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 W/ KNIFE. PARTINGS PARALLEL TO BEDDING & LOWER CONTACT SHARP BELOW CALCITE BRECCIA ZONE FROM 41.5 TO 42.9m.				
26.21	97	0	CA AR SLS	BEDDING @ 75°					
29.26 30	106	19							
31.70 32.31	29	0							
	102	3		BEDDING @ 60°					
35 35.36									
	96	0			42.9-53.64 BLACK SHALE FINE GRAINED, FINELY LAMINATED AND SOFT. NON-CALCAREOUS & CALCITE VEINS VERY RARE TRACE LIMONITE/JAROSITE. VERY MINOR CALCITE BRECCIATION. NARROW INTERBEDS OF SILTY LIMESTONE FROM 53.2m TO 53.9m.				
39.80 40	93	6							
40.23	70	26							
41.45				CALCITE BRECCIA					
	82	46		LOWER CONTACT @ 60°					
44.50 45									

PAGE 2 OF 4	PROJECT REIN	HOLE 97-11

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au ppb	Pt ppb	Pd ppb	Mo ppm	Ni ppm	Zn ppm
		3.05	4.88	1.83	299854	<2	<5	<2	28	17	24
		4.88	6.33	1.45	55	<2	<5	<2	33	59	134
		6.33	7.92	1.59	56	<2	<5	<2	26	61	128
		7.92	9.42	1.50	57	<2	<5	<2	34	37	42
		9.42	10.97	1.55	58	6	<5	<2	25	60	116
		10.97	12.47	1.50	59	<2	<5	<2	22	19	30
		12.47	14.02	1.55	299860	<2	<5	<2	25	40	176
		14.02	15.52	1.50	61	<2	<5	<2	34	73	384
		15.52	17.07	1.55	62	<2	<5	<2	50	258	2040
		17.07	20.12	3.05	299863	2	<5	<2	47	139	918
JAROSITE & LIMONITE UBIQUITOUS ON		20.12	22.20	2.08	299749	2	<5	4	52	253	1430
FRACTURES. TRACE HYDROZINCITE PRESENT		22.2	24.2	2.0	299750	<2	<5	4	50	138	512
IN 2.5 cm WIDE CALCITE VEIN (@ 23.5m).											
ZONE ECHOLED BY FAULTING + TR NICKELED NO		24.2	25.3	1.1	299801	<2	<5	2	59	224	1060
VANADIUM OXIDES OBSERVED.											
		25.3	27.3	2.0	299802	<2	<5	2	54	191	584
		27.3	29.26	1.96	299803	<2	<5	2	47	164	452
		29.26	31.00	1.74	299864	<2	<5	<2	45	157	498
		31.00	33.00	2.00	65	<2	<5	<2	38	140	606
		33.00	35.00	2.00	66	<2	<5	<2	44	152	670
		35.00	37.00	2.00	67	<2	<5	<2	50	165	554
		37.00	39.00	2.00	68	<2	<5	<2	52	145	878
		39.00	41.00	2.00	69	<2	<5	2	46	135	3440
		41.00	42.90	1.90	299870	<2	<5	4	62	169	2440
		42.90	45.00	2.10	71	<2	<5	6	22	93	894
		45.00	47.00	2.00	299872	<2	<5	8	19	150	1250

PAGE 3 OF 4	PROJECT REIN	HOLE 97-11

DEPTH (M)	% CORE REC	% RQD			LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION	FRACTURE INTENSITY
	83	11					BEDDING @ 30°		
47.55					BL SH		BEDDING @ 80°		
	98	6							
49.38							BEDDING @ 75°		
50	94	0							
50.60							SILTY LIMESTONE INTERBED		
	99	23					BEDDING @ 80°		
57.64 EOH									
55									

PAGE 4 OF 4	PROJECT REIN	HOLE 97-11

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au ppb	Pt ppb	Pd ppb	Mo ppm	Ni ppm	Zn ppm
45											
		47.00	49.00	2.00	299873	6	<5	4	13	116	1370
50		49.00	51.00	2.00	74	<2	<5	<2	27	120	2160
		51.00	53.64	2.64	299875	<2	<5	<2	23	113	2240
55											

PAGE	OF	PROJECT	HOLE

DEPTH (M)	% CORE REC	% RQD			LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION						FRACTURE INTENSITY

EQUITY ENGINEERING LTD.

DRILL LOG

PROJECT: REM	COLLAR ELEVATION: 1160 m
HOLE: REM 97-12	AZIMUTH: 340°
LOCATION: 7181045N 632555E	DIP: -55°
LOGGED BY: C BAKER	LENGTH: 56.39 m
DRILLED BY: FALCON DRILLING	HORIZONTAL PROJECTION:
ASSAYED BY: CHEMEX LABS	VERTICAL PROJECTION:
CORE SIZE: BTW	
DATE STARTED: 03/09/97	DATE COMPLETED: 04/09/97

DIP TESTS BY: NONE

DEPTH	DIP	AZIM	DEPTH	DIP	AZIM

OBJECTIVE: TO TEST TB SHOWING.

ALTERATION SCALE

absent
slight
moderate
intense

SULPHIDE SCALE

traces only
< 1%
1% – 3%
3% – 10%
> 10%

SUMMARY LOG

LITHOLOGY		MINERALIZATION
0 - 3.3	OVERBURDEN (CASED)	HOLE FLARED IN FOOTWALL PIT SAMPLES
3.3 - 6.0	CALCAREOUS ARGILLITE	TAKEN FROM 13.0 - 17.0 m WHERE HIGHEST
6.0 - 6.4	ARGILLACEOUS LIMESTONE	CONCENTRATION OF NARROW VEINLETS +
6.4 - 8.0	CALCAREOUS ARGILLITE	PYRITE IS HIGHEST.
8.0 - 9.9	BLACK CHALK	
9.9 - 11.1	ARGILLACEOUS LIMESTONE	
11.1 - 13.2	CALCAREOUS ARGILLITE	
13.2 - 16.9	ARGILLACEOUS LIMESTONE	
16.9 - 56.39	CALCAREOUS ARGILLITE	

PAGE 1 OF 4 | PROJECT REIN | HOLE 97-12

DEPTH (M)	% CORE REC	% RQD	SULPHIDES	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION: CA VEINLETS	LIMONITE	JASPEROID	GYPSUM VEINS	FRACTURE INTENSITY
						0 - 3.05 OVERBURDEN (CASED)					
3.05	106	0		CA AR		3.05 - 3.30 OVERBURDEN					
3.18				CA AR	BEDDING @ 65°	3.30 - 6.0 CALCAREOUS ARGILLITE					
	102	11		AR LS CA AR	LOWER CONTACT @ 75°	DARK GREY & VERY FINE GRAINED & STRONGLY CALCAREOUS, MASSIVE & HARD BUT CAN STILL BE SCRATCHED. CALCITE VEINING IS WEAK. BOTTOM CONTACT SHARP AT 90°. WEAK CONDUCTIVITY					
8.23				BL SH							
10	90	76		AR LS		6.0 - 6.4 ARGILLACEOUS LIMESTONE					
11.28				AR LS	BEDDING @ 90°	DARK GREY, MEDIUM GRAINED & STRONGLY CALCAREOUS,					
				CA AR	BEDDING @ 90°	FINELY LAMINATED BOTTOM CONTACT SHARP					
	102	53				6.4 - 8.0 CALCAREOUS ARGILLITE. WEAK CONDUCTIVITY					
12.18					BEDS @ 70°	AS PER 3.3 - 6.0m. TENTACULITES NOTED AT 7.2m					
15						8.0 - 9.9 TRACE SHALE					
	82	10			FAULT @ 70°	FINE GRAINED MASSIVE, SOFT & NON CALCAREOUS					
17.37						LOWER CONTACT @ 80°. STRONG CONDUCTIVITY					
	85	6				9.9 - 11.1 ARGILLACEOUS LIMESTONE					
20						AS PER 6.0 - 6.4m W/ VARIABLE GRAIN SIZE					
20.92						11.1 - 13.2 CALCAREOUS ARGILLITE					
	102	11			BEDS @ 70°	AS PER 3.3 - 6.0m W/ TRACE SYNGENETIC PYRITE IN SEMI-MASSIVE TO MASSIVE BEDS & LENSES UP TO 7mm THICKNESS. RARE TENTACULITES.					
23.48											
25	93	21				13.2 - 16.9 ARGILLACEOUS LIMESTONE					
26.52						AS PER 6.0 64 BUT CONTAINS TRACE PY IN SYNGENETIC BEDS. LOWER CONTACT FAULTED. WEAK CONDUCTIVITY					
	101	26				16.9 - 30.39 CALCAREOUS ARGILLITE					
29.54					BEDS @ 75°	AS PER 3.3 - 6.0m WITH TRACE GYPSUM VEINS, TENTICULITES & SYNGENETIC PYRITE. NONCONDUCTIVE					
30	97	91				SMALL LIMESTONE BALL INTERSECTED AT 21.5m BALL IS 8cm WIDE (INTERSECTED WIDTH).					
32.61						TENTACULITES DO NOT OCCUR BELOW 32m. PYRITE					
33.53	76	20				ALSO DISAPPEARS BELOW THIS DEPTH					
34.19	92	0									
35	95	0				WEAKLY TO MODERATELY CONDUCTIVE					
35.66					BEDDING @ 70°						
	98	21									
37.49											
	102	0									
38.71											
39.49	82	0									
40	84	0									
40.69											
41.96	89	0			BEDDING @ 65°						
	85	4									
44.98											
45											

PAGE 2 OF 4	PROJECT REIN	HOLE 97-12

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES FROM	SAMPLES TO	SAMPLES WIDTH	SAMPLE NUMBER	ASSAYS Au ppb	Pt ppb	Pd ppb	Mo ppm	Ni ppm	Zn ppm
		3 30	5 30	2.00	299876	<2	<5	<2	49	162	414
		5.30	7.30	2.00	77	<2	<5	<2	41	136	398
		7.30	9 30	2.00	78	<4	<10	<4	179	516	1090
		9.30	11 30	2.00	79	<2	<5	<2	76	223	484
		11.30	13 00	1.70	299880	<2	<5	<2	62	194	504
SECTION OF WISPY PYRITE + SEMI-		13.0	15.0	2.0	299804	2	5	6	101	1080	926
MASSIVE TO MASSIVE BEDS OF											
PYRITE SAMPLED. HOLE COLLARED		15.0	17.0	2.0	299805	<2	<5	4	32	120	440
IN FOOTWALL ROCKS.											
		17 00	19 00	2.00	299881	<2	<5	<2	57	172	410
		19.00	21.00	2.00	82	<2	<5	<2	60	203	770
		21.00	23 00	2.00	83	<2	<5	<2	49	155	450
		23.00	25.00	2.00	84	<2	<5	<2	37	123	450
		25.00	27.00	2.00	85	<2	<5	<2	43	134	342
		27 00	29 00	2.00	86	<2	<5	<2	47	144	308
		29.00	31.00	2.00	87	<2	<5	<2	50	162	334
		31 00	33 00	2.00	88	<2	<5	<2	54	161	258
		33.00	35.00	2.00	89	<2	<5	<2	63	183	2216
		35.00	37.00	2.00	299890	<2	<5	<2	85	223	306
		37.00	39 00	2.00	91	4	<10	4	96	268	436
		39.00	41.00	2.00	92	<2	<5	4	56	210	1625
		41.00	43.00	2.00	93	<2	<5	<2	70	189	1780
		43.00	45 00	2.00	94	<2	<5	2	56	150	2940

PAGE 3 OF 4	PROJECT REIN	HOLE 97-12

DEPTH (M)	% CORE REC	% RQD			LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION: CA VNLTS	LIMONITE	DAROCITE	GYPSUM VEINS			FRACTURE INTENSITY
	77	0												
47.55							BEDDING @ 40°							
	91	40												
49.07														
50	90	71												
50.90							LIMESTONE BALL							
	102	65					BEDDING @ 65°							
53.34														
55	101	98												
56.29 COH														

PAGE 4 OF 4	PROJECT REIN	HOLE 97-12

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS					
		FROM	TO	WIDTH		Au ppb	Pt ppb	Pd ppb	Mo ppm	Ni ppm	Zn ppm
		45.00	47.00	2.00	299895	<2	<5	4	56	180	9280
		47.00	49.00	2.00	96	<2	<5	4	65	166	4010
		49.00	51.00	2.00	97	<2	<5	4	79	201	4750
		51.00	53.00	2.00	98	<2	<5	4	68	167	4910
		53.00	55.00	2.00	99	<2	<5	<2	61	164	4760
		55.00	56.39	1.39	299900	<2	<5	4	52	141	3610

PAGE	OF	PROJECT	HOLE

DEPTH (m)	% CORE REC	% RQD			LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION						FRACTURE INTENSITY

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.

PROFESSIONAL ENGINEERS PROVINCE OF BRITISH COLUMBIA D. A. CAULFIELD GEOSCIENTIST

David A. Caulfield, P Geo

LEGEND

MIDDLE TO UPPER DEVONIAN
Lower Earn Group

- **DLEu** Upper member - chert, cherty argillite, chert pebble conglomerate, barite
- **DLEba** Barite horizon
- **DLEl** Lower member - rhythmite 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)
- LB, BB Limestone balls, barite balls
- REN 97-02 Diamond drill hole

MINERALIZATION

AZ - azurite	BA - barite	CA - calcite
GL - galena	HZ - hydrozincite	PB - pyrobitumen
QZ - quartz	SP - sphalerite	SU - sulvanite
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)
3852	<4	<10	<4	1.6	52	85	32	116	<2	1985
3853	<4	<10	<4	0.2	16	128	22	72	<2	854
3854	<4	<10	<4	<0.2	16	338	38	103	<2	326
3855	<4	<10	<4	3.0	48	100	44	151	2	3600
3856	<4	<10	4	0.8	300	185	14	2990	10	9130
3857	<4	<10	<4	<0.2	10	32	8	2320	2	1.42%
3858	<4	<10	<4	0.6	16	201	9	459	<2	6380
3859	<4	<10	<4	0.2	6	17	17	41	6	94
3860	<4	<10	<4	<0.2	46	41	55	250	<2	1390
3861	<4	<10	<4	<0.2	24	109	39	192	<2	570
3862	<4	<10	4	1.2	36	17	42	13	16	44
3863	<4	<10	<4	0.2	60	223	45	156	8	512
3864	<4	<10	<4	1.2	68	33	69	76	6	148
3865	<4	<10	<4	<0.2	52	243	56	151	<2	338
3866	<4	<10	<4	0.6	70	46	118	65	<2	146
3867	8	10	<4	1.8	24	104	46	27	8	18
3868	8	5	14	2.2	164	52	69	23	12	56
3869	<2	<5	2	0.4	16	64	39	21	2	55
3870	<2	<5	<2	0.2	8	18	29	24	8	48
3872	<2	<5	<2	0.2	10	103	25	163	2	1770
3873	<2	<5	<2	<0.2	8	2290	4	16	8	62
3874	<2	<5	<2	<0.2	14	348	26	58	8	408
3875	<2	<5	<2	<0.2	6	82	4	22	12	832
3876	<2	<5	<2	<0.2	4	100	16	222	6	1048
3877	2	<5	4	0.2	16	22	55	103	6	354
3878	4	<5	2	0.2	10	66	28	117	6	282
3879	<2	<5	4	<0.2	30	216	35	231	8	706
3880	<2	<5	2	0.2	14	62	41	90	6	184
3881	<2	<5	<2	0.6	36	52	43	125	16	798
3882	<2	<5	<2	0.4	10	23	27	43	6	136
3883	<2	<5	<2	0.6	42	33	92	152	12	484
3904	100	560	244	20.2	2770	127	1635	5.21%	168	136
44364	4	<10	4	3.2	208	87	164	409	8	158
44365	84	340	160	14.8	2330	301	653	3.58%	16	202
44366	4	<10	12	2.6	40	33	39	102	34	92
44367	<4	<10	<4	18.4	244	60	5	53	1.40%	4.22%
44368	<4	<10	<4	0.6	30	111	92	279	4	172
44369	<4	<10	<4	0.6	8	41	28	65	32	180
44370	8	30	12	2.2	142	218	220	333	30	472
44371	<4	<10	<4	0.2	18	30	38	58	6	64
44372	<4	<10	<4	0.2	18	72	67	75	2	104
44373	<4	20	8	1.4	170	142	206	274	<2	438
44374	<4	<10	<4	0.2	26	80	63	74	2	74
44375	<4	<10	<4	0.8	18	35	20	39	<2	24
44376	<4	<10	8	1.0	30	77	43	106	2	240
44377	<4	<10	4	1.8	10	12	65	52	4	26

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	<4	0.2	20	56	40	158	<2	870
44379	2	<5	4	0.6	12	52	7	37	<2	150
44380	<2	<5	<2	<0.2	6	5	2	4	<2	8
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	4	0.4	30	31	64	394	6	866
44384	4	<10	4	1.0	58	155	76	895	6	1.44%
44385	24	40	20	3.4	452	162	262	3590	42	1635
44386	<4	<10	<4	0.6	18	34	46	187	2	1020
44387	<4	<10	<4	0.6	24	35	64	172	6	562
44388	4	10	4	1.6	26	113	43	449	6	944
44389	<4	<10	<4	0.2	24	42	16	118	12	564
44390	16	40	24	3.8	420	149	403	4450	22	702
44391	4	<10	4	1.6	44	94	87	753	6	5770
44392	4	<10	<4	1.0	14	22	29	36	4	106
44393	8	<10	8	2.2	82	82	84	244	164	12	102
44394	4	10	12	1.8	60	147	99	65	8	70

1995 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	94	391	6	1145
4552	<2	<5	2	<0.2	28	79	52	338	6	2810
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	92	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	68
4558	<2	40	12	3.4	36	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)
596656	35	120	58	7.8	-	589	454	2.06%	28	254
596657	<5	-	-	0.2	-	68	30	190	6	68
596658	<5	<5	<2	<0.2	-	100	39	2252	<2	4.19%
596659	<5	-	-	0.8	-	103	28	110	6	3150
596660	<5	-	-	<0.2	-	2	1	10	4	90
596722	<5	-	-	2.0	-	82	67	246	8	1994
596723	<5	-	-	0.2	-	23	30	52	6	258
596724	<5	-	-	1.8	-	53	21	133	4	2912
596725	<5	-	-	1.0	-	40	30	76	<2	1462
596726	<5	-	-	<0.2	-	3	6	43	<2	180
596727	<5	-	-	<0.2	-	15	4	24	<2	290
596728	<5	-	-	<0.2	-	51	13	97	<2	1402
596729	<5	-	-	<0.2	-	32	11	40	<2	658
596758	<5	-	-	<0.2	-	15	4	10	<2	102
596759	<5	-	-	<0.2	-	10	2	20	<2	286
596760	<5	10	6	0.4	-	41	138	1614	<2	2764
596761	<5	-	-	0.6	-	28	9	47	<2	372
596762	<5	-	-	<0.2	-	10	27	31	<2	28
596763	<5	-	-	<0.2	-	15	26	21	4	12
596905	<5	-	-	<0.2	-	1	1	14	<2	26
596906	<5	-	-	1.2	-	56	42	152	<2	188
596907	<5	-	-	1.4	-	65	39	125	4	110
596908	<5	-	-	1.0	-	37	67	56	<2	18
596909	<5	-	-	2.4	-	72	51	117	<2	1414
596910	<5	-	-	1.4	-	42	39	93	<2	1238
596911	<5	-	-	<0.2	-	1	3	77	<2	410
596912	<5	-	-	0.4	-	78	28	38	8	56
596913	<5	-	-	<0.2	-	1	<1	12	<2	16
596914	<5	-	-	0.6	-	259	23	89	<2	1844
596915	<5	-	-	<0.2	-	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	518
3910	12	5	10	1.2	34	61	5	42	16	74
3911	16	<5	10	1.4	8	17	2	13	12	6

METRES
0 200 400 600 800 1000

BLACKSTONE RESOURCES INC.

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EQUITY ENGINEERING LTD.

DRAWN:	J.W. / D.A.C.	MINING DISTRICT: Mayo/Dawson	FIGURE. 4
N.T.S.:	116 B/9	SCALE: 1:10,000	
DATE:	DEC. 1997	REVISED:	

LEGEND

MIDDLE TO UPPER DEVONIAN
Lower Earn Group

DLEu	Upper member - chert, cherty argillite, chert pebble conglomerate, barite
DLEba	Barite horizon
DLEl	Lower member - rhythmite 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)
- LB, BB — Limestone balls, barite balls
- REN 97-10 — Diamond drill hole

MINERALIZATION

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

1995 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)
4559	<2	<5	<2	<0.2	<2	61	<1	63	2	82
4601	<2	<5	8	1.4	1.4	34	26	37	10	118
4602	<2	<5	<2	0.2	0.2	322	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	8	<5	4	0.2	28	47	44	173	12	2040
3802	4	<5	<2	<0.2	14	94	1	75	<2	52
3803	10	<5	4	1.0	36	463	105	365	2	3310
3804	2	<5	2	0.2	22	42	3	20	20	82
3805	2	<5	2	<0.2	30	51	3	115	20	214
3806	<4	<10	8	1.4	50	86	64	133	22	920
3884	<2	<5	4	1.2	28	87	32	85	2	2130
3885	<2	<5	<2	<0.2	2	15	1	38	<2	64
3886	<2	<5	2	22.6	76	410	13	79	<2	1970
3887	<2	<5	2	0.8	20	4330	27	92	2	2370
3888	<2	<5	<2	<0.2	20	55	<1	53	<2	86
3889	2	<5	2	1.4	28	54	23	81	<2	1985
3890	2	<5	4	1.8	40	62	39	112	2	1880
3891	2	<5	2	0.2	28	78	79	123	4	454
3892	2	<5	2	<0.2	72	270	233	1140	2	4990
3893	2	<5	2	0.2	20	48	57	191	6	480
3894	<2	<5	<2	<0.2	8	338	17	50	<2	276
3895	2	<5	6	1.2	20	51	22	28	2	102
3896	<2	<5	<2	0.4	12	170	12	61	<2	392
3897	4	<5	8	1.6	26	28	37	43	4	186
3898	4	<5	6	1.0	20	124	22	80	2	454
3899	4	<5	6	1.4	28	57	28	47	2	250
3900	4	<5	8	1.8	34	106	45	107	6	658
3901	2	<5	4	0.2	10	15	28	42	6	108
3902	2	<5	2	0.6	22	47	56	264	4	376
3903	<2	<5	2	0.2	10	25	34	25	6	44
10278	2	<5	4	0.8	24	139	23	387	<2	2940
10279	8	10	10	1.8	58	167	53	758	4	510
10280	<2	<5	4	0.6	24	128	32	83	6	1140
10281	<2	<5	2	<0.2	6	36	<1	38	<2	230
10282	<2	<5	4	<0.2	18	112	1	54	2	492
10283	<2	<5	6	0.2	10	427	8	359	<2	4340
44395	2	<5	2	<0.2	8	20	26	23	2	108
44396	<2	<5	2	<0.2	48	93	<1	422	<2	80
44397	2	<5	2	<0.2	20	48	<1	27	14	90
44398	4	<5	4	0.4	26	162	31	323	<2	1330
44399	<2	<5	<2	<0.2	4	6	1	1	<2	6
44400	<2	<5	2	0.2	6	15	19	20	2	42

METRES
0 200 400 600 800 1000

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DRAWN:	J.W. / D.A.C.	MINING DISTRICT: Mayo/Dawson	FIGURE. 5
N.T.S.:	116B/9	SCALE: 1:10,000	
DATE:	DEC. 1997	REVISED:	