

86-677-15620

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

PERRON GOLD MINES LTD.  
ASSESSMENT REPORT ON THE  
GEOLOGY, GEOPHYSICS, TRENCHING  
AND DIAMOND DRILLING PROGRAMMES  
AT MCKEE CREEK - ATLIN MINING DIVISION  
NTS 104 N/5E, 6W

BY  
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OCTOBER 29, 1986  
REVISED FEBRUARY 6, 1987

15-620

CLAIMS WORKED

Claim Name	Units	Record No.	Anniversary Date
PENNY	12	1165	October 1
COX	8	1404	August 7
KIA	6	1405	August 10

LOCATION: 59°29' N, 133° 32' W

OWNERS: J. Harvey and H. Evenden  
AND Perron Gold Mines Ltd.

OPERATOR: Perron Gold Mines Ltd.

FILMED

CONSULTANT: Archean Engineering Ltd.

PROJECT GEOLOGIST: L. DANDY, B.Sc., MARK MANAGEMENT LTD.

**ASSESSMENT REPORT ON THE  
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AT MCKEE CREEK - ATLIN MINING DIVISION  
NTS 104 N/5E, 6W**

**SUMMARY**

The property, located along McKee Creek, is a road accessible placer gold producer and lode prospect located 14.5 kilometres southeast of Atlin in northwestern British Columbia. Detailed geologic mapping suggests that the prospect is underlain by rock types known to be favourable host rocks of gold mineralization in this mining camp.

During 1986, a diamond drilling programme consisting of five drill holes totalling 2148 feet (655 m) was completed on this prospect following a detailed programme of geologic mapping, ground geophysics, and bulldozer trenching used to select drill sites.

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**ASSESSMENT REPORT ON THE  
GEOLOGY, GEOPHYSICS, TRENCHING  
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AT MCKEE CREEK - ATLIN MINING DIVISION  
NTS 104 N/5E, 6W**

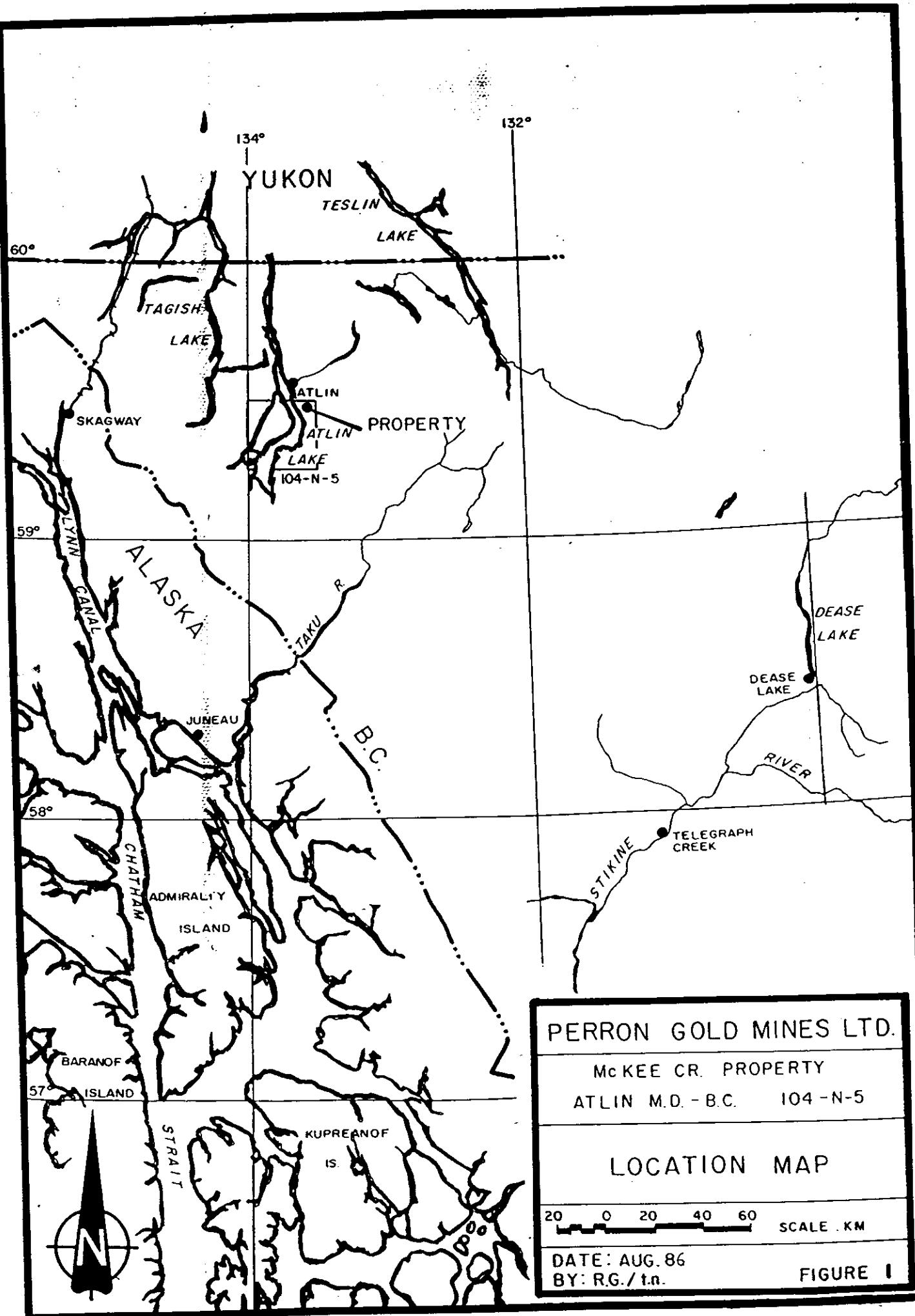
## **1.0 INTRODUCTION**

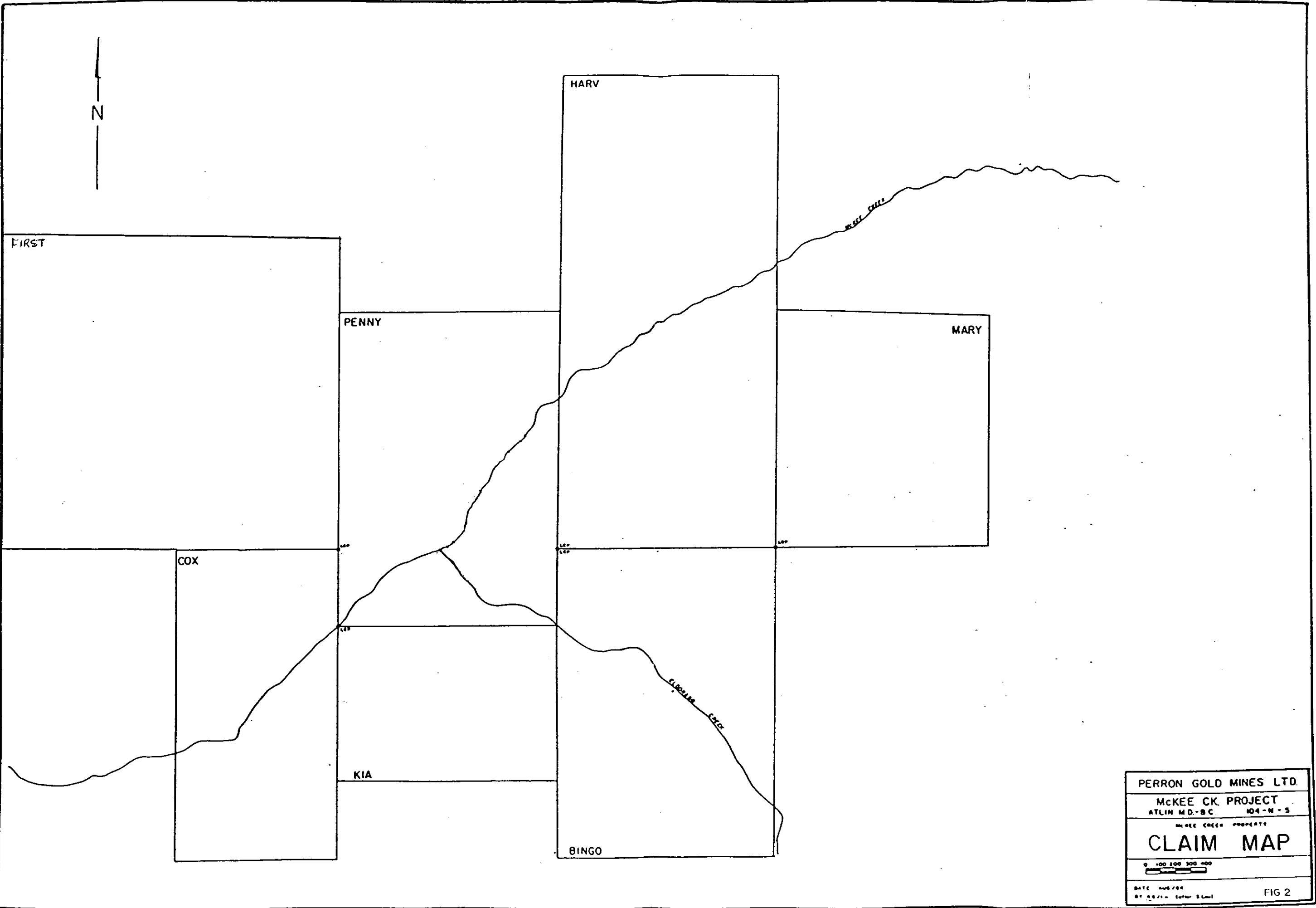
The McKee Creek property is a placer gold producer and lode-gold prospect located in the historic Atlin placer gold camp in northwestern British Columbia (Figure 1). The claim group consists of six Mineral Claims located along McKee and Eldorado Creeks. These claims cover an area which has had a long history of placer gold production. The property is owned by J. Harvey and H. Evenden and held under option by Perron Gold Mines Ltd. of Vancouver, B.C.

Previous exploration work on the property included a 600 foot adit driven into the north bank of McKee Creek in 1940-41 by placer miners to exploit the gravels, a sampling programme by Cominco Ltd. in late 1941 and a percussion drilling programme by Dupont of Canada Exploration Ltd. in 1977. Samples collected by Cominco from a quartz vein zone returned gold values of up to 0.36 ounces per ton. In September 1983, a small geologic mapping and rock geochemistry programme was carried out over the main placer workings along McKee Creek to test the lode potential of the property. In 1984, an airborne geophysical programme led to follow-up geologic, geophysical, and geochemical work. A small rotary drilling programme followed for the purpose of testing for buried placer gold channels. In 1985, a ground magnetometer survey was carried out over a selected portion of the property for the purpose of confirming and better delineating anomalous areas identified by a previous airborne magnetic survey. Results of the programme confirm the presence of two anomalous areas which suggest a carbonatized contact between ultramafics and argillaceous sediments. It is the contact zone that is believed to host lode gold mineralization and confirmation by diamond drilling was the main target for the 1986 programme.

### **1.1 LOCATION AND ACCESS**

The McKee Creek property is a lode-gold prospect staked over one of Atlin Placer Gold Camp's significant gold producing drainages. The Gold Camp covers an area of approximately 380 km<sup>2</sup> of mountainous country, in the Atlin Mining Division in northwestern British Columbia (Figure 1). The placer deposits are east and south of the town of Atlin which is centrally located on the east side of Atlin Lake. The area trends northeastward and is approximately 26 km long and up to 20 km wide. Most of the area is drained to the west by Fourth of July Creek in the north, Pine and Spruce Creeks in the central portion, and McKee and Eldorado Creeks in the south. The eastern portion of the district is drained by the north flowing Snake, Otter, and Wright Creeks and the east and south flowing Feather and Slate Creeks which eventually joins with O'Donnell River.





PERRON GOLD MINES LTD.  
McKEE CK. PROJECT  
ATLIN MD.-BC  
MCKEE CREEK PROPERTY  
**CLAIM MAP**  
0 100 200 300 400  
DATE: AUG 704  
BY: G.S./m. (Author & Date)

FIG 2

The village of Atlin is, and has been since the early days of the Klondike Gold Rush of 1897 and 1898, the principal population and supply centre of northwestern British Columbia. It is approximately 150 km south of Whitehorse, the capital and principal Yukon city. Atlin may be reached by car from Jake's Corner on the Alaska Highway (Mile 865), a distance of about 98 kilometres, along Highway 7. The distance from Jake's Corner to Whitehorse is about 84 kilometres along the Alaska Highway, which is paved over this entire length. Whitehorse is served with several flights a day from other major centres in Canada and Alaska.

The McKee Creek property, located 14.5 kilometres southeast of Atlin, covers an area of approximately 15 square kilometres over the valleys of McKee and Eldorado Creeks. The claims are centred at latitude  $59^{\circ}29'$  and longitude  $133^{\circ}32'$  on NTS map sheets 104 N/5E and 6W (Figure 2).

Excellent access to the property is provided by the gravel-surfaced Atlin - O'Donnell River road. A rough four-wheel drive road leaves the Atlin - O'Donnell River road immediately south of the McKee Creek bridge and provides access to those portions of the property along lower McKee and Eldorado Creeks.

## 1.2 PHYSIOGRAPHY, VEGETATION AND CLIMATE

The Atlin area is located just east of the Coast Mountains on the Teslin Plateau. The town of Atlin lies on the east shore of Atlin Lake, the largest natural lake in British Columbia, at an elevation of 2,200 feet. The topography is moderately rugged on the McKee Creek property. Relief is on the order of 3,000 feet with slopes of up to 15° rising from the McKee Creek valley at an elevation of 3,000 feet to the peaks of the Johnson Range at elevations well over 5,500 feet. Glaciers occupied present day Atlin Lake and extended up many of the creeks. This extensive ice sheet acted as a dam against which were deposited thick layers of glaciofluvial till. Prominent 200 foot cliffs of cross-bedded glaciofluvial material occur along lower McKee Creek. An unknown thickness of till extensively covers the property.

The tree line is at approximately 1370 m (4,500 feet) on north facing slopes and 1525 m (5,000 feet) on south facing slopes. Below 1370 m (4,500 feet), the valley are forested with lodgepole pine, black spruce, aspen and scrub birch. Mountain alder and willow grow near streams with stunted buckbrush covering the hills above tree line.

Atlin enjoys a pleasant summer climate with temperatures averaging  $20^{\circ}\text{C}$  and little precipitation. Winter temperatures average  $-15^{\circ}\text{C}$  in January with moderate snowfall. Total annual precipitation has been measured at 279.4 millimetres of moisture. "Winter" conditions can be expected from October to April.

### 1.3 CLAIM INFORMATION

The property is located in the Atlin Mining Division and is comprised of six modified grid claims totalling 73 units (Figure 2). Claim information is listed in Table 1.

TABLE 1

#### CLAIM STATUS

Claim Name	Units	Record No.	Anniversary Date
PENNY	12	1165	October 1
COX	8	1404	August 7
KIA	6	1405	August 10
CRACKLE	9	1534	September 22
SNAP	18	1535	September 22
FIRST	20	2652	June 10

### 1.4 HISTORY

Gold was first discovered in the Atlin area in 1897 by Fritz Miller while en route to Dawson. The first workings were on Pine Creek and by the end of 1898, more than 3,000 people were camped in the Atlin area. Only 8 creeks - Spruce, Pine, Birch, Boulder, Ruby, Otter, Wright and McKee - have been important producers in the Atlin camp. Holland (1950) reports that gold production from McKee Creek, up to 1946 (the last year B.C. Dept. of Mines kept records of production), was approximately 47,000 oz (see Table 2).

Gold-bearing quartz veins were first discovered in the Atlin area in 1899 and by 1905 most of the known showings had been discovered. In 1940, an auriferous vein zone was discovered on McKee Creek by placer miners while driving an adit (Carter, 1983). Cominco examined the showing and immediately optioned the ground in October, 1941. A limited sampling programme was carried out with gold values ranging up to 0.36 oz/ton reported.

In 1983, Standard Gold Mines Ltd. announced a new lode gold discovery six kilometres northeast of the McKee Creek - Eldorado Creek confluence. News of the discovery and the similarity of geology prompted Perron Gold Mines Ltd. to option the McKee Creek property.

In 1981, Yukon Revenue Mines Ltd. acquired and re-examined the old Lakeview property. Work done by Yukon Revenue showed low-grade gold values over an extensive but delicate quartz stockwork in carbonatized and silicified andesite adjacent to a serpentinite intrusive.

In 1986, Homestake acquired the old Yellow Jacket claims along Pine Creek. Their drilling has indicated several intersections of up to 10 feet grading 0.5 oz/T Au or better. The gold values are coming from a quartz stockwork with up to 1/2% pyrite in a carbonatized, talcose ultramafic.

**TABLE 2 (from Holland, 1950)**

**Gold Recovery from Productive Creeks, Atlin Area, 1898-1946**

Stream Name	Ounces of Gold Produced
Spruce Creek	262,603
Pine Creek	138,144
Boulder Creek	67,811
Ruby Creek	55,272
McKee Creek	46,953
Otter Creek	20,113
Wright Creek	14,729
Birch Creek	12,898
All Others (21 creeks)	15,624

**1.5 WORK DONE BY PERRON GOLD MINES LTD. IN 1986**

The following field work was completed on the McKee Creek property by Perron Gold Mines Ltd. during the period June 2 to August 25, 1986:

- 1) Proton magnetometer survey across the McKee Creek valley to define the mag 'low' found with the 1984 airborne magnetometer survey.
- 2) Trenching and rock chip sampling were carried out in areas known to contain abundant sulfide mineralization. The entire length of the trenches were bulk sampled.
- 3) Diamond drilling of 2,148 feet of 'NQ' core in 5 holes along the McKee Creek valley.

## 2.0 GEOLOGY

### 2.1 REGIONAL GEOLOGY

Geologic mapping of this area was undertaken in 1951-55 by J.D. Aitken of the Geological Survey of Canada (GSC) and compiled as Map 1082A (Figure 3). In 1966-68, J.W.H. Monger, also of the GSC, selectively mapped the Atlin area and published his findings in GSC Paper 74-47.

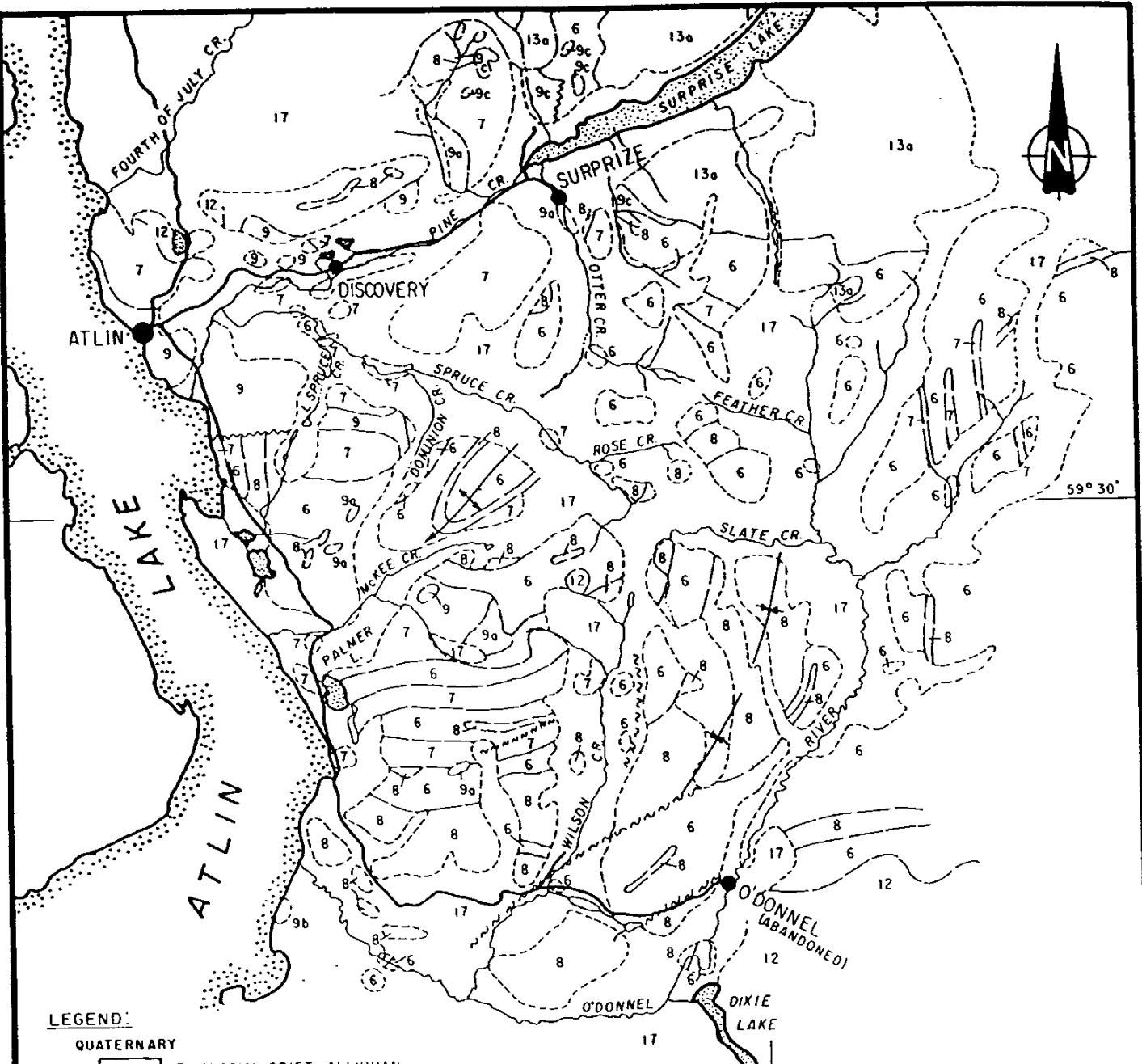
The Atlin region is located in a eugeosynclinal area composed of three distinct northwest striking tectonic belts; the St. Elias and Insular Belt, Coast and Cascades Belt and Intermontane Belt. The rocks of the area belong to the Atlin Terrane, which represents an independent tectonic entity of the oceanic sequence of the Intermontane Belt in the Canadian Cordillera. The Atlin Terrane consists of upper Paleozoic age radiolarian cherts, pelites, carbonates, volcanics and ultramafics. These rocks are intruded by Mesozoic granite, alaskite and quartz monzonite. The youngest rocks of the Atlin Terrane are composed of Tertiary and Quaternary volcanics. Till deposited by receding Pleistocene glaciers extensively covers the valleys.

The Atlin Terrane is bounded on the northeast by a northwest striking vertical fault and on the southwest by a northwest striking reverse fault. Structurally, the terrane is characterized by compressional deformation which is similar in style and trend to the southwest bounding faults (Monger, 1975). Minor fold axes generally strike northwest or trend southwest.

### 2.2 PROPERTY GEOLOGY

Outcrop exposure accounts for less than 5 per cent of the surface area on the property. Felsenmeer is present in areas of no outcrop but is assumed to be close to outcrop. Till covers the valleys below 1370 m (4,500 feet) elevation, and tailings from old placer workings extensively cover the lower portions of McKee and Eldorado Creeks.

The property is underlain by Cache Creek Group metasediments and volcanics intruded by Pennsylvanian and Permian ultramafics. The Cache Creek Group is comprised of limestone, argillite, chert, and andesite. Monger (1975) classifies the limestone, argillite, and chert as forming part of the Kedahda Formation and the andesite as part of the Nakina Formation. He states that the Nakina Formation volcanics (basalts) 'are conformable with bedded chert of the Kedahda Formation'. He further believes that both the Nakina Formation and the Kedahda Formation occupy the same time frame but that the Nakina event is slightly older.



LEGEND:

QUATERNARY	17 GLACIAL DRIFT, ALLUVIAN
CRETACEOUS	13a ALASKITE
JURASSIC	12 UNDIFFERENTIATED GRANITIC ROCKS
PENNSYLVANIAN & PERMIAN ATLIN INTRUSIONS	
9 PERIDOTITE ; META-DIORITE & META-GABBRO	
9a SERPENTINITE	
9b CARBONITIZED SERPENTINITE	
9c TALC BEARING (STEATITIZED) ULTRAMAFIC ROCKS.	

CACHE CREEK GROUP

- 6 CHERT, ARGILLITE, CHERT-PEBBLE CONGLOMERATE & CHERT BRECCIA; DERIVED QUARTZITE & SCHIST; MINOR 7 & 8.
- 7 GREENSTONE & VOLCANIC GREYWACKE; DERIVED AMPHIBOLITE; MINOR 6 & 8.
- 8 LIMESTONE & LIMESTONE BRECCIA

— ANTICLINE

↑ SYNCLINE

~~~~~ FAULT

PERRON GOLD MINES LTD.

REGIONAL GEOLOGY

ATLIN MINING DIVISION B.C.

GENERAL GEOLOGY  
ADAPTED FROM AIKENS

0 4 8 MILES

BY: ARCHEAN ENGINEERING LTD.  
RA. GONZALEZ / r.w.r.

DATE: Mar. 86  
FIGURE 3

Detailed geologic mapping on the property suggests, however, that the stratigraphic sequence is reverse to that proposed by Monger. Ash-grey, massive limestone forms the lowest unit seen on the property and is overlain by chert, typically dark grey to black in colour and locally interlayered with argillite containing beds of graphite. Ultramafics are believed to intrude the sedimentary package and locally may represent minor flows. Andesitic extrusives, typically drab grey-green in colour. siliceous, sometimes weakly carbonatized, and containing up to 1% primary pyrite, appear to be the youngest unit.

Because of limited exposures structural features are probably more complex than presently believed. It is, however, apparent that many of the outcrops are intensely sheared and fractured with a principal orientation of northeast.

The principal fold structure on the property is a southwest plunging syncline with its axis parallel to and presently occupied by McKee Creek. The plunge of the syncline is steeper than the gradient of the creek. Small gentle anticlines flank either side of the syncline, and ultramafic intrusives are only seen along the axis of the fold structures. A shear zone, trending  $030^{\circ}/40^{\circ}$ , was traced for 700 m up McKee Creek beginning just below the McKee-Eldorado Creek Confluence; this shear appears to trace the synclinal axis.

Gold mineralization appears to be confined to the hanging wall portion of a carbonatized ultramafics located immediately south of the confluence of McKee and Eldorado Creeks.

### 2.3 ECONOMIC GEOLOGY

The Atlin area has enjoyed a history of productive placer mining and to a lesser extent, hard rock mining. As is common in the Atlin area, the gold recovered from McKee Creek is coarse and often found intergrown with quartz. Much of the placer gold production has been from rich orange-red claybound Tertiary gravels in lower McKee Creek. A large 36.88 troy ounce nugget was recovered from McKee Creek in 1981 (J. Harvey, pers. comm., 1984). It is hypothesized that similar rich-paying Tertiary gravels are preserved and buried below the level of glacial scouring in Eldorado and upper McKee Creeks. This hypothesis was tested in the 1984 rotary drilling programme.

In 1983, Standard Gold Mines Ltd. announced a new lode gold showing just northeast of the McKee Creek property. Work by Standard Gold indicated that the gold occurred in a quartz stockwork hosted by carbonatized ultramafic. Similar mineralization may exist on Perron Gold's McKee Creek property.

In 1986, Homestake carried out a two phase diamond drill programme on the Yellow Jacket property which straddles the Pine Creek Fault. This drilling encountered intersections of 0.5 oz/T gold or better over 5 feet. The gold mineralization was within a quartz stockwork in carbonatized and talcose ultramafic.

### 3.0 DIAMOND DRILLING PROGRAMME

A drilling programme consisting of five 'NQ' wire line size holes (core size 4.76 cm) totalling 2148 feet (655 m) was contracted to Phil's Diamond Drilling Ltd. of 100 Mile House, B.C. The location of drill sites are shown on Figures 4 and 6 with a summary of the diamond drilling presented on Table 3. Detailed diamond drill records for the five holes are presented in Appendix A.

TABLE 3

The core is stored  
in the core  
house in Atlin

#### SUMMARY OF DIAMOND DRILLING

| HOLE NO. | GRID LOCATION | CLAIM NAME | AZIMUTH | DIP  | LENGTH (FEET) |
|----------|---------------|------------|---------|------|---------------|
| PGM 84-1 | 5+80W 4+50S   | PENNY      | 321°    | -55° | 350.0         |
| PGM 84-2 | 3+60W 1+70S   | PENNY      | 318°    | -45° | 380.0         |
| PGM 84-3 | 0+80N 1+40E   | PENNY      | 300°    | -45° | 340.0         |
| PGM 84-4 | 8+50W 7+50S   | COX        | 348°    | -43° | 504.0         |
| PGM 84-5 | 9+50W 7+80S   | COX        | 139°    | -45° | 574.0         |

### 4.0 GEOCHEMISTRY

#### 4.1 DRILL CORE SAMPLING

##### 4.1.1 SAMPLING AND SAMPLE TREATMENT

A total of 200 core samples were collected from the six holes drilled on the Perron property. The entire length of the core was sampled with average sample width of 5 feet and smaller samples being taken where mineralization or veining was present. The core was logged, split, crushed and riffle split in the field, with samples of .25 to .50 kilograms being sent to Chemex Labs Ltd. in North Vancouver for analysis. In the lab the samples were crushed to minus 100 mesh, fire assayed for gold and given a 30 element ICP analysis.

#### **4.1.2 PRESENTATION AND DISCUSSION OF RESULTS**

Sample locations, widths, rock types and assay data can be obtained from the drill logs found in Appendix B. Pyrite was the only significant mineral encountered in the core, however, quartz stockworks within carbonatized ultramafics and chert were found. These stockworks have good potential for having spotty gold mineralization concentrated in zones along the strike of this system.

### **4.2 SLUDGE SAMPLING**

#### **4.2.1 SAMPLING AND SAMPLE TREATMENT**

A total of 98 samples were taken from the return obtained in holes 86-4 and 86-5. Samples were taken generally at 10 foot intervals. These samples were placed in plastic poly bags and allowed to dry. They were then shipped to Chemex Labs Ltd. in North Vancouver, B.C. In the laboratory, 8 of the samples were treated as rock chip samples; they were crushed to minus 100 mesh, fire assayed for gold and given a 30 element ICP analysis. The remainder of the samples were treated as silt samples and analysed for gold and 30 additional elements by ICP.

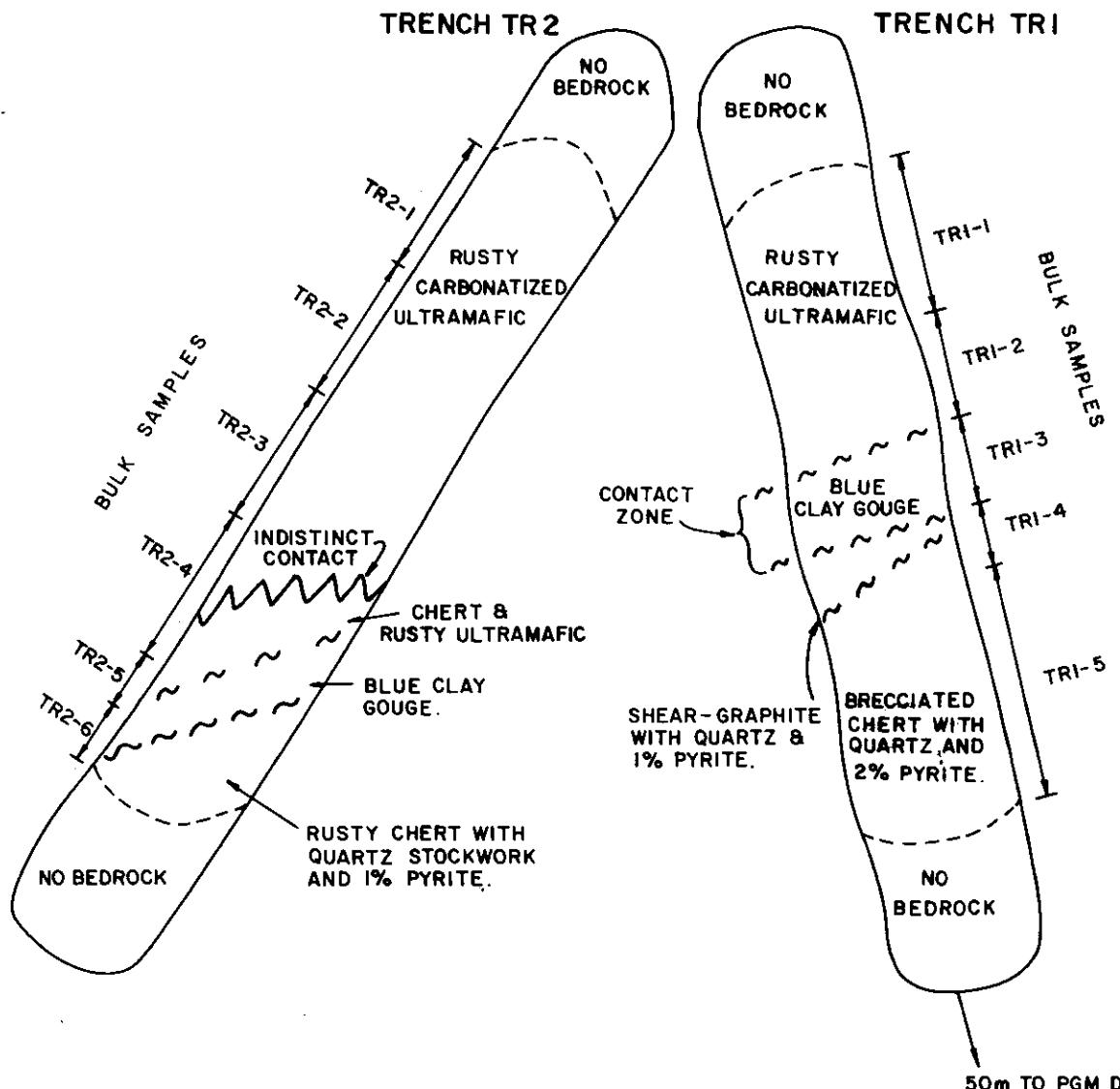
#### **4.2.2 PRESENTATION AND DISCUSSION OF RESULTS**

These samples were taken in an attempt to locate any fine free gold that may have been washed from the core. The 8 samples that were treated as rock chip samples gave slightly elevated silver and base metal values. The samples that were analysed as silts gave poor results in most elements.

### **4.3 TRENCH AND ROCK CHIP SAMPLING**

#### **4.3.1 SAMPLING AND SAMPLE TREATMENT**

Two trenches were excavated on the McKee Creek property. These trenches were adjacent to hole 86-4, and were approximately 3 metres deep. 11 bulk samples of 100 pounds were taken from the walls of the trenches over widths of 1 to 5 metres. These samples were crushed and riffle split in the field with samples of approximately 0.5 kilograms being sent to Chemex Labs Ltd. in North Vancouver, B.C. for analysis. In the lab, the samples were crushed to minus 100 mesh and screened. They were then given a metallics assay for gold and a 30 element ICP analysis.



PERRON GOLD MINES LTD.  
McKEE CREEK PROPERTY  
ATLIN MINING DIVISION, B.C. NTS: 104N/5

TRENCH MAP

0 5 10 15

BY: L.D./rwr  
DATE: AUG., 1986

SCALE: 1:250

FIGURE: 5

A total of 5 rock samples were taken from the McKee Creek property. These samples were crushed and riffle split in the field and then shipped to Chemex Labs Ltd. in North Vancouver, B.C. for analysis. In the lab, the samples were crushed to minus 100 mesh and fire assayed for gold and given a 30 element ICP analysis.

#### **4.3.2 PRESENTATION AND DISCUSSION OF RESULTS**

Figures 4 and 5 show the locations of the rock samples and the bulk samples taken from the trenches. Assay results are available in Appendix B. Both the trench samples and the rock samples gave discouraging results in most elements.

### **5.0 GEOPHYSICS**

#### **5.1 PROTON PRECESSION MAGNETOMETER SURVEY**

##### **5.1.1 INSTRUMENT AND SURVEY TECHNIQUES**

A proton precession magnetometer survey was also carried out over the Penny and Cox Claims. A total of 15.4 line kilometres were surveyed using a Geometrics G826 proton magnetometer. A base station was established and readings were corrected for diurnal and day to day variations. Readings were taken in a northerly direction at 25 metre intervals along north-south flagged lines spaced 200 metres apart. The time of day was recorded at each station and later used to correct the field readings.

##### **5.1.2 PRESENTATION AND DISCUSSION OF RESULTS**

Results of the survey have been contoured and are shown in Figure 6. Readings are in gammas (0 = 57,000 gammas) and have been corrected for diurnal and day to day variations.

The magnetometer readings show a range of values from 57,038 to 60,655 gammas. A prominent northeast-southwest striking zone of lower magnetometer readings can be traced for at least 1,200 metres length, located approximately following the McKee Creek valley and appears to be delineating a sheared contact between ultramafic of the Atlin Intrusions and chert/argillite of the Cache Creek Group.

The magnetometer appears to be a useful exploration tool for this property, defining shear zones with corresponding quartz stockworks which have an excellent potential for economic gold mineralization along their strike.

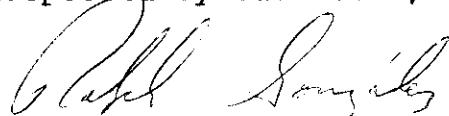
## 6.0 CONCLUSIONS

The programme of diamond drilling conducted by Perron Gold Mines Ltd. was designed to test a shear zone along the contact between ultramafics and Cache Creek Metasediments. This shear zone was thought to be the source area for placer gold mined in McKee Creek. Although the shear was well tested and stringer zones of quartz were commonly present, assays of the core showed very low levels of gold and minor amounts of silver.

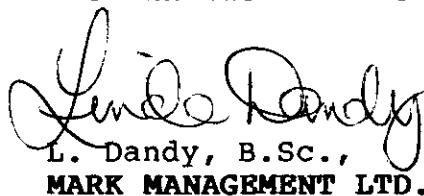
Prior to diamond drilling a proton magnetometer survey was carried out across the McKee Creek valley to determine areas of low magnetometer readings. This mag 'low' trend approximately parallels McKee Creek, and defines an altered, sheared contact zone between chert/argillite and carbonatized ultramafic. This contact zone contains the quartz stockwork encountered in the diamond drill programme.

Recent work done on nearby claims indicates the presence of gold mineralization in a quartz stockwork found within a carbonatized ultramafic body. The similarity in geology and in magnetic responses on the McKee Creek property indicates a possibility of finding economic gold mineralization along the strike of this quartz stockwork.

Respectfully submitted,



R.A. Gonzalez. M.Sc., F.G.A.C., P.Eng.  
ARCHEAN ENGINEERING LIMITED



L. Dandy, B.Sc.,  
MARK MANAGEMENT LTD.

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- Holland, S.S., 1950, Placer Gold Production of British Columbia: B.C. Ministry of Energy, Mines and Petroleum Resources, Bulletin 28, 89 p.
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## 8.0 COSTS STATEMENT

PERRON GOLD MINES LTD.  
MCKEE CREEK PROPERTY  
1 MAY - 25 AUGUST, 1986

GENERAL COSTS

|                                                          |                    |
|----------------------------------------------------------|--------------------|
| <b>FOOD &amp; ACCOMMODATION:</b>                         |                    |
| 3 Pers., 76 Man days @ \$28.49/day                       | \$ 2,164.89        |
| <b>SUPPLIES:</b>                                         | 1,072.44           |
| <b>TELEPHONE SERVICE:</b>                                | 222.11             |
| <b>RENTALS:</b>                                          |                    |
| Airways 4wd Blazer: 9 June-25 Aug.<br>27 days @ \$43/day | 129.00             |
| Norcan 4wd PU, 13-16 June<br>5 days @ \$71.07/day        | 355.34             |
| Standard Field Equipment:<br>76 man days @ \$6/day       | 456.00             |
| Gabriel Chainsaw: 27 June-10 Aug.<br>2 days @ \$30/day   | 60.00              |
|                                                          | <u>2,032.34</u>    |
| <b>FUEL:</b>                                             | 1,229.26           |
| <b>FIXED WING:</b>                                       |                    |
| Travel, 17 June, 25 Aug,<br>2 WHT-VCR @ \$276.90 ea      | 553.80             |
| <b>FEES &amp; LICENCES:</b>                              | 533.00             |
| <b>SHIPPING &amp; POSTAGE:</b>                           | 684.04             |
| <b>CONSULTANTS FEES:</b>                                 |                    |
| Adder Expl & Dev, Ltd.                                   | 2,030.00           |
| Archean Engineering Ltd.                                 | 3,625.00           |
|                                                          | <u>5,655.00</u>    |
| <b>REPORT PREPARATION:</b>                               | 2,725.00           |
| <b>TOTAL GENERAL COSTS:</b>                              | <u>\$17,871.88</u> |

STAKING COSTS

|                                   |                    |
|-----------------------------------|--------------------|
| <b>SALARIES &amp; WAGES:</b>      |                    |
| 3 pers. 7 M'n days @ \$98.35/day  | \$ 688.47          |
| <b>BENEFITS @ 20%:</b>            | 137.69             |
| <b>RECORDING FEE:</b>             | 100.00             |
| <b>GENERAL COSTS APPORTIONED:</b> |                    |
| 7/83 X \$17,871.88                | 1,507.27           |
| <b>TOTAL STAKING COSTS:</b>       | <u>\$ 2,433.43</u> |

**TRENCHING COSTS**

|                                                   |                    |
|---------------------------------------------------|--------------------|
| <b>SALARIES &amp; WAGES:</b>                      |                    |
| 3 pers., 4 Man days @ \$93.59/day                 | 374.36             |
| <b>BENEFITS @ 20%:</b>                            |                    |
|                                                   | 74.87              |
| <b>ASSAYS &amp; ANALYSES - CHEMEX LABS.:</b>      |                    |
| 11 Bulk samples for Au + 30 element ICP @ 26.50   | 291.50             |
| <b>BULLDOZER CONTRACTOR:</b>                      |                    |
| Thoma Services, D8 Cat, 12-17 Aug, 12 hrs @ \$125 | 1,500.00           |
| <b>GENERAL COSTS APPORTIONED:</b>                 |                    |
| 4/83 X \$17,871.88                                | 861.30             |
| <b>TOTAL TRENCHING COSTS:</b>                     | <b>\$ 3,101.73</b> |

**DIAMOND DRILLING COSTS:**

|                                                  |                    |
|--------------------------------------------------|--------------------|
| <b>SALARIES &amp; WAGES:</b>                     |                    |
| 3 pers., 52 Man days @ \$108.73/day              | \$ 5,653.97        |
| <b>BENEFITS @ 20%:</b>                           |                    |
|                                                  | 1,130.79           |
| <b>SUPPLIES:</b>                                 |                    |
|                                                  | 2,176.00           |
| <b>DIAMOND DRILLING:</b>                         |                    |
| Phil's, 18 July-23 Aug. 2148' @ \$27.92/ft       | 59,971.00          |
| <b>BULLDOZER CONTRACTOR:</b>                     |                    |
| Thoma Services, D8 Cat, 18 July-23 Aug. 50.5 hrs | 6,312.50           |
| <b>ASSAYS &amp; ANALYSES - CHEMEX LABS.:</b>     |                    |
| 76 core for Au + 30 ele. ICP @ \$ 15.25          | 1,159.00           |
| 185 core for Au + 30 ele. ICP @ \$18             | 3,330.00           |
| <b>GENERAL COSTS APPORTIONED:</b>                |                    |
| 52/83 X \$17,871.88                              | 19,196.84          |
| <b>TOTAL DIAMOND DRILLING COSTS:</b>             | <b>\$90,930.10</b> |

**GEOPHYSICAL SURVEY COSTS**

|                                                                   |                    |
|-------------------------------------------------------------------|--------------------|
| <b>SALARIES &amp; WAGES:</b>                                      |                    |
| 2 pers., 14 Man days @ \$84.62/day                                | \$ 1,184.61        |
| <b>BENEFITS @ 20%:</b>                                            |                    |
|                                                                   | 236.92             |
| <b>RENTALS:</b>                                                   |                    |
| Kanfeld Proton Magnetometer,<br>23 June-25 July 8 days @ \$27/day | 216.00             |
| <b>GENERAL COSTS APPORTIONED:</b>                                 |                    |
| 14/83 X \$17,871.88                                               | 3,014.53           |
| <b>TOTAL GEOPHYSICAL SURVEY COSTS:</b>                            | <b>\$ 4,652.06</b> |

**GEOLOGICAL MAPPING COSTS****SALARIES & WAGES:**

|                                   |           |
|-----------------------------------|-----------|
| 1 Pers., 6 Mn days @ \$116.67/day | \$ 700.02 |
|-----------------------------------|-----------|

**BENEFITS @ 20%:**

|        |
|--------|
| 140.00 |
|--------|

**ASSAYS & ANALYSES - CHEMEX LABS.:**

|                                             |       |
|---------------------------------------------|-------|
| 4 rock samples for Au + 30 ele. ICP @ \$ 18 | 72.00 |
|---------------------------------------------|-------|

**GENERAL COSTS APPORTIONED:**

|                    |          |
|--------------------|----------|
| 6/83 X \$17,871.88 | 1,291.94 |
|--------------------|----------|

**TOTAL GEOLOGICAL MAPPING:**

|             |
|-------------|
| \$ 2,203.96 |
|-------------|

**COSTS APPORTIONED TO CLAIMS:**

| CLAIM         | STAKING         | TRENCHING       | DRILLING         | GEOPHYSICAL     | GEOLOGY         | TOTAL             |
|---------------|-----------------|-----------------|------------------|-----------------|-----------------|-------------------|
| FIRST         | 2,433.43        |                 |                  |                 |                 | 2,433.43          |
| COX           |                 | 3,101.73        | 45,634.38        | 1,431.40        | 1,106.09        | 51,273.60         |
| PENNY         |                 |                 | 45,295.72        | 2,147.10        | 1,097.87        | 48,540.69         |
| KIA           |                 |                 |                  | 1,073.56        |                 | 1,073.56          |
| <b>TOTAL:</b> | <b>2,433.43</b> | <b>3,101.73</b> | <b>90,930.10</b> | <b>4,652.06</b> | <b>2,203.96</b> | <b>103,321.28</b> |

## 9.0 CERTIFICATE

I, R. A. Gonzalez, do hereby certify that:

1. I am a geologist and reside at 2784 Lawson Ave., West Vancouver, British Columbia.
2. I am a graduate of The University of New Mexico, U.S.A.; with a B.Sc. in geology (1965) and an M.Sc. in geology (1968).
3. I have practiced my profession since 1965 in Canada and abroad as indicated on the following page.
4. I am a Fellow in the Geological Association of Canada, Registration Number 4523.
5. I am a registered member of the Association of Professional Engineers of the Province of Manitoba, Registration Number 3970.
6. I have based this report on a thorough knowledge of the property having work in the area over the past several years, and on my continuing involvement with exploration and development programmes undertaken by PERRON GOLD MINES LTD. since 1983. Information obtained from the Geological Survey of Canada and engineering reports and other support documents provided by Archean Engineering Limited and PERRON GOLD MINES LTD. were also used.
7. I have no interest, nor do I expect to receive any interest, either directly or indirectly in the securities or properties of PERRON GOLD MINES LTD.
8. I have no past or present, direct or indirect interest in any of the listed Mineral Claims or in any other property within the Atlin Mining District.

Dated at Vancouver, British Columbia, this 29th day of October 1986:



R. A. Gonzalez M.Sc., F.G.A.C., P. Eng.

**10.0 STATEMENT OF PROFESSIONAL QUALIFICATIONS****R.A. GONZALEZ, M.Sc., P.Eng. F.G.A.C.****ACADEMIC**

|      |                  |                                      |
|------|------------------|--------------------------------------|
| 1965 | B.Sc. in Geology | The University of New Mexico, U.S.A. |
| 1968 | M.Sc. in Geology | The University of New Mexico, U.S.A. |

**PROFESSIONAL**

|           |                                                              |                                                                                                            |
|-----------|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| 1983      | Archean Engineering Limited                                  | Overseas Manager                                                                                           |
| 1980-1983 | Placer Development y Cia. Ltd.<br>(Chile)                    | Ass't Exploration Manager                                                                                  |
| 1977-1980 | Consultant: attached to the<br>Geological Survey of Malaysia | Ass't Project Manager on a<br>C.I.D.A. supported mineral<br>exploration survey over<br>Peninsular Malaysia |
| 1975-1977 | Province of Manitoba                                         | Resident Geologist for the<br>Manitoba Dept. of Mines.                                                     |
| 1971-1975 | Giant Mascot Mines Limited                                   | Senior Geologist                                                                                           |
| 1970-1971 | New Jersey Zinc (Canada) Ltd.                                | Exploration Geologist                                                                                      |
| 1968-1970 | Anaconda American Brass Ltd.                                 | Research Geologist                                                                                         |
| 1965-1966 | Mex-Tex Mining Co. (U.S.A)                                   | Geologist                                                                                                  |

**STATEMENT OF QUALIFICATIONS****LINDA DANDY, B.SC.****Academic**

1981        B.Sc. Geology                      University of British Columbia

**Practical**

|      |                                         |                                                                                                                                                                 |
|------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1986 | Mark Management Ltd.<br>Vancouver, B.C. | Geophysics, geochemistry and<br>over 10,000 feet of diamond<br>drilling near Atlin, B.C.                                                                        |
| 1985 | Mark Management Ltd.                    | Detailed geological mapping,<br>geophysical and geochemical<br>surveys and backhoe trenching<br>in the Yukon, southeastern B.C.<br>and northeastern Washington. |
| 1984 | Mark Management Ltd.                    | Detailed geological mapping,<br>geophysical and geochemical<br>surveys, backhoe trenching and<br>diamond drilling in northern<br>B.C.                           |
| 1983 | Mark Management Ltd.                    | Geological mapping (1:50,000,<br>1:10,000, 1:1,000), geophysical<br>and geochemical surveys in<br>Central and Northern B.C. and<br>the Yukon.                   |
| 1982 | Mark Management Ltd.                    | Geochemical and geophysical<br>surveys in Central B.C.                                                                                                          |
| 1981 | Mark Management Ltd.                    | Property work, detailed mapping<br>geochemical and geophysical<br>surveys in Central B.C.                                                                       |

PROPERTY PERRON GOLD MINES LTD.  
MCKEE CREEK

# DIAMOND DRILL RECORD

HOLE NO. PGM DDH 86-1 PAGE 1 OF 1

| LATITUDE     | 59°28'                                                            | DIPS-COLLAR            | -53°             | AZIMUTH    | 321°                    | STARTED   | JULY 19/86      |                        |               |          |      |         |           |            |
|--------------|-------------------------------------------------------------------|------------------------|------------------|------------|-------------------------|-----------|-----------------|------------------------|---------------|----------|------|---------|-----------|------------|
| LONGITUDE    | 133°33'                                                           | 350' -                 | -55°             | CORE SIZE  | NQ                      | COMPLETED | JULY 26/86      |                        |               |          |      |         |           |            |
| ELEVATION    | 2940'                                                             | Test not very accurate |                  | CONTRACTOR | PHIL'S DIAMOND DRILLING | LENGTH    | 350'            |                        |               |          |      |         |           |            |
| SHEET NO.    | PGM DDH 86-1                                                      |                        |                  |            |                         | LOGGED BY | LINDA DANDY     |                        |               |          |      |         |           |            |
| TARGET       | SHEAR ZONE AND QUARTZ STOCKWORK IN CHERT AND ULTRAMAFIC (Mag low) |                        |                  |            | DATE                    |           | JULY 29/86      |                        |               |          |      |         |           |            |
| SECTION (FT) | 1 ft = 0.305m                                                     |                        | ROCK DESCRIPTION |            | % REC                   | INTV. FT. | CORE LENGTH IN. | MINERALIZATION SUMMARY | ASSAYS        |          |      |         |           |            |
| FROM         | TO                                                                |                        |                  |            |                         |           |                 |                        | SAMPLE NUMBER | INTERVAL | WDT  | AU OZ/T | AG P.P.M. | TAG NUMBER |
| 0            | 20                                                                |                        |                  |            |                         |           |                 |                        |               | FT.      | FT.  |         |           |            |
| 20           | 30                                                                |                        |                  |            |                         |           |                 |                        | 001           | 20 - 30  | 10   | LO.002  | 2.2       | 38501F     |
| 30           | 51                                                                |                        |                  |            |                         |           |                 |                        | 002           | to 40    | 10   | LO.002  | 1.0       | 38502F     |
| 51           | 51.7                                                              |                        |                  |            |                         |           |                 |                        | 003           | to 51    | 11   | LO.002  | 1.2       | 38503F     |
| 51.7         | 53.6                                                              |                        |                  |            |                         |           |                 |                        | 004           | to 53.6  | 2.6  | LO.002  | 1.0       | 38504F     |
| 53.6         | 54.3                                                              |                        |                  |            |                         |           |                 |                        | 005           | to 54.3  | 0.7  | LO.002  | 0.6       | 38505F     |
| 54.3         | 68.1                                                              |                        |                  |            |                         |           |                 |                        | 006           | to 68.1  | 13.8 | LO.002  | 1.0       | 38506F     |
| 68.1         | 88.3                                                              |                        |                  |            |                         |           |                 |                        | 007           | to 77.2  | 9.1  | LO.002  | 0.6       | 38507F     |
| 88.3         | 103.3                                                             |                        |                  |            |                         |           |                 |                        | 008           | to 88.3  | 11.1 | LO.002  | 0.6       | 38508F     |
| 103.3        | 168.5                                                             |                        |                  |            |                         |           |                 |                        | 009           | to 103.3 | 15   | LO.002  | 0.8       | 38509F     |
| 168.5        | 177.3                                                             |                        |                  |            |                         |           |                 |                        | 010           | to 120   | 16.7 | LO.002  | 0.2       | 38510F     |
| 177.3        | 186.4                                                             |                        |                  |            |                         |           |                 |                        | 011           | to 140   | 20   | LO.002  | 0.8       | 38511F     |
| 186.4        | 192.3                                                             |                        |                  |            |                         |           |                 |                        | 012           | to 160   | 20   | LO.004  | 0.6       | 38512F     |
| 192.3        | 228.2                                                             |                        |                  |            |                         |           |                 |                        | 013           | to 168.5 | 8.5  | LO.004  | 0.6       | 38513F     |
| 228.2        | 251.6                                                             |                        |                  |            |                         |           |                 |                        | 014           | to 177.3 | 8.8  | LO.006  | 0.2       | 38514F     |
| 251.6        | 258.8                                                             |                        |                  |            |                         |           |                 |                        | 015           | to 186.4 | 9.1  | LO.002  | 0.4       | 38515F     |
| 258.8        | 270.4                                                             |                        |                  |            |                         |           |                 |                        | 016           | to 192.3 | 5.9  | LO.002  | 0.4       | 38516F     |
| 270.4        | 281.3                                                             |                        |                  |            |                         |           |                 |                        | 017           | to 210   | 17.7 | LO.002  | 0.6       | 38517F     |
| 281.3        | 350                                                               |                        |                  |            |                         |           |                 |                        | 018           | to 228.2 | 18.2 | LO.002  | 0.4       | 38518F     |
|              |                                                                   |                        |                  |            |                         |           |                 |                        | 019           | to 234.1 | 5.9  | LO.002  | 0.2       | 38519F     |
|              |                                                                   |                        |                  |            |                         |           |                 |                        | 020           | to 242.3 | 8.2  | LO.002  | 0.6       | 38520F     |
|              |                                                                   |                        |                  |            |                         |           |                 |                        | 021           | to 251.6 | 9.3  | LO.002  | 0.2       | 38521F     |
|              |                                                                   |                        |                  |            |                         |           |                 |                        | 022           | to 258.8 | 7.2  | LO.002  | 0.2       | 38522F     |
|              |                                                                   |                        |                  |            |                         |           |                 |                        | 023           | to 270.4 | 11.6 | LO.002  | 0.2       | 38523F     |
|              |                                                                   |                        |                  |            |                         |           |                 |                        | 024           | to 281.3 | 10.9 | LO.002  | 0.2       | 38524F     |
|              |                                                                   |                        |                  |            |                         |           |                 |                        | 025           | to 292.6 | 11.5 | LO.002  | 0.6       | 38525F     |
|              |                                                                   |                        |                  |            |                         |           |                 |                        | 026           | to 303   | 10.2 | LO.002  | 0.2       | 38526F     |
|              |                                                                   |                        |                  |            |                         |           |                 |                        | 027           | to 310   | 7    | LO.006  | 1.2       | 38527F     |
|              |                                                                   |                        |                  |            |                         |           |                 |                        | 028           | to 320   | 10   | LO.002  | 0.2       | 38528F     |
|              |                                                                   |                        |                  |            |                         |           |                 |                        | 029           | to 330   | 10   | LO.002  | 0.2       | 38529F     |
|              |                                                                   |                        |                  |            |                         |           |                 |                        | 030           | to 340   | 10   | LO.002  | 0.2       | 38530F     |
|              |                                                                   |                        |                  |            |                         |           |                 |                        | 031           | to 350   | 10   | LO.004  | 0.4       | 38531F     |

**PROPERTY** PERRON GOLD MINES LTD.  
MCKEE CREEK

## DIAMOND DRILL RECORD

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## DIAMOND DRILL RECORD

HOLE NO. PGM DDH 86-2

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PROPERTY PERRON GOLD MINES LTD.  
MCKEE CREEK

# DIAMOND DRILL RECORD

HOLE NO. PGM DDH 86-3 PAGE 1 OF 1

|           |                          |             |      |            |                         |           |              |
|-----------|--------------------------|-------------|------|------------|-------------------------|-----------|--------------|
| LATITUDE  | 58°29'                   | DIPS-COLLAR | -45° | AZIMUTH    | 300°                    | STARTED   | AUGUST 2/86  |
| LONGITUDE | 133°32'                  |             | 340' | CORE SIZE  | NQ                      | COMPLETED | AUGUST 8/86  |
| ELEVATION | 3210'                    |             |      | CONTRACTOR | PHIL'S DIAMOND DRILLING | LENGTH    | 340'         |
| SHEET NO. | PGM DDH 86-3             |             |      |            |                         | LOGGED BY | LINDA DANDY  |
| TARGET    | LISTWANITE WITH SULFIDES |             |      |            |                         | DATE      | AUGUST 11/86 |

| SECTION (FT) |     | ROCK DESCRIPTION                                                                                                                                                           | REC   | INTV.   | CORE LENGTH | MINERALIZATION SUMMARY | ASSAYS        |           |       |         |           |            |
|--------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------|-------------|------------------------|---------------|-----------|-------|---------|-----------|------------|
| FROM         | TO  |                                                                                                                                                                            |       |         |             |                        | SAMPLE NUMBER | INTERVAL  | WDTH  | AU OZ/T | AG P.P.M. | TAG NUMBER |
| 0            | 141 | Black chert, fractured slightly but still competent, minor pyrite (1 speck every 3'), argillaceous areas (~20%). 3/4" quartz vein at 73.5' and 10° angle to core. (warpy). | 19.2% | 0 - 20' | 46"         | Py                     | 001           | 0 - 30'   | 30'   | LO.002  | 0.2       | 38991F     |
|              |     |                                                                                                                                                                            | 69.2% | to 30'  | 83"         |                        | 002           | to 50'    | 20'   | LO.002  | 0.2       | 38992F     |
|              |     |                                                                                                                                                                            | 90.8% | to 40'  | 109"        |                        | 003           | to 70'    | 20'   | LO.002  | 0.2       | 38993F     |
|              |     |                                                                                                                                                                            | 95.8% | to 50'  | 115"        |                        | 004           | to 90'    | 20'   | LO.002  | 0.6       | 38994F     |
|              |     |                                                                                                                                                                            | 100%  | to 60'  | 120"        |                        | 005           | to 110'   | 20'   | LO.002  | 0.2       | 38995F     |
|              |     |                                                                                                                                                                            | 100%  | to 70'  | 120"        |                        | 006           | to 130'   | 20'   | LO.002  | 0.2       | 38996F     |
|              |     |                                                                                                                                                                            | 100%  | to 80'  | 120"        |                        | 007           | to 141'   | 11'   | LO.002  | 0.4       | 38997F     |
|              |     |                                                                                                                                                                            | 100%  | to 90'  | 120"        |                        | 008           | to 150'   | 9'    | LO.002  | 0.2       | 38998F     |
|              |     |                                                                                                                                                                            | 100%  | to 100' | 120"        |                        | 009           | to 154'   | 4'    | LO.002  | 0.4       | 38999F     |
|              |     |                                                                                                                                                                            | 100%  | to 110' | 120"        |                        | 010           | to 170'   | 16'   | LO.002  | 0.4       | 39000F     |
|              |     |                                                                                                                                                                            | 100%  | to 120' | 120"        |                        | 011           | to 174.5' | 4.5'  | LO.002  | 0.2       | 38551F     |
|              |     |                                                                                                                                                                            | 100%  | to 130' | 120"        |                        | 012           | to 187.5' | 13'   | LO.002  | 0.2       | 38552F     |
|              |     |                                                                                                                                                                            | 100%  | to 140' | 120"        |                        | 013           | to 200'   | 12.5' | LO.002  | 0.2       | 38553F     |
|              |     |                                                                                                                                                                            | 100%  | to 150' | 120"        |                        | 014           | to 214'   | 14'   | LO.002  | 0.2       | 38554F     |
|              |     |                                                                                                                                                                            | 100%  | to 160' | 120"        |                        | 015           | to 226'   | 12'   | LO.002  | 0.2       | 38555F     |
|              |     |                                                                                                                                                                            | 100%  | to 170' | 120"        |                        | 016           | to 240'   | 14'   | LO.002  | 0.2       | 38556F     |
|              |     |                                                                                                                                                                            | 100%  | to 180' | 120"        |                        | 017           | to 255.5' | 15.5' | LO.002  | 0.2       | 38557F     |
|              |     |                                                                                                                                                                            | 100%  | to 190' | 120"        |                        | 018           | to 270'   | 14.5' | LO.002  | 0.2       | 38558F     |
|              |     |                                                                                                                                                                            | 100%  | to 200' | 120"        |                        | 019           | to 290'   | 20'   | LO.002  | 0.2       | 38559F     |
|              |     |                                                                                                                                                                            | 100%  | to 210' | 120"        |                        | 020           | to 310'   | 20'   | LO.002  | 0.2       | 38560F     |
|              |     |                                                                                                                                                                            | 100%  | to 220' | 120"        |                        | 021           | to 330'   | 20'   | LO.002  | 0.2       | 38561F     |
|              |     |                                                                                                                                                                            | 100%  | to 230' | 120"        |                        | 022           | to 340'   | 10'   | LO.002  | 0.2       | 38562F     |
|              |     |                                                                                                                                                                            | 100%  | to 240' | 120"        |                        |               |           |       |         |           |            |
|              |     |                                                                                                                                                                            | 100%  | to 250' | 120"        |                        |               |           |       |         |           |            |
|              |     |                                                                                                                                                                            | 95.8% | to 260' | 115"        |                        |               |           |       |         |           |            |
|              |     |                                                                                                                                                                            | 95.8% | to 270' | 115"        |                        |               |           |       |         |           |            |
|              |     |                                                                                                                                                                            | 100%  | to 280' | 120"        |                        |               |           |       |         |           |            |
|              |     |                                                                                                                                                                            | 100%  | to 290' | 120"        |                        |               |           |       |         |           |            |
|              |     |                                                                                                                                                                            | 100%  | to 300' | 120"        |                        |               |           |       |         |           |            |
|              |     |                                                                                                                                                                            | 100%  | to 310' | 120"        |                        |               |           |       |         |           |            |
|              |     |                                                                                                                                                                            | 100%  | to 320' | 120"        |                        |               |           |       |         |           |            |
|              |     |                                                                                                                                                                            | 100%  | to 330' | 120"        |                        |               |           |       |         |           |            |
|              |     |                                                                                                                                                                            | 100%  | to 340' | 120"        |                        |               |           |       |         |           |            |

PROPERTY PERRON GOLD MINES LTD.  
MCKEE CREEK

# DIAMOND DRILL RECORD

HOLE NO. PGM DDH 86-4 PAGE 1 OF 2

| LATITUDE  | 59°28"                                        | DIPS-COLLAR | -43°          | AZIMUTH                                                                                                                                                                      | 348°                    | STARTED   | AUGUST 8/86  |                        |               |           |       |         |           |            |
|-----------|-----------------------------------------------|-------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------|--------------|------------------------|---------------|-----------|-------|---------|-----------|------------|
| LONGITUDE | 133°33'                                       | 504'        | -42°          | CORE SIZE                                                                                                                                                                    | NQ                      | COMPLETED | AUGUST 17/86 |                        |               |           |       |         |           |            |
| ELEVATION | 2820'                                         |             |               | CONTRACTOR                                                                                                                                                                   | PHIL'S DIAMOND DRILLING | LENGTH    | 504'         |                        |               |           |       |         |           |            |
| SHEET NO. | PGM DDH 86-4                                  |             |               |                                                                                                                                                                              |                         | LOGGED BY | LINDA DANDY  |                        |               |           |       |         |           |            |
| TARGET    | SHEAR ZONE WITH SULFIDES AND QUARTZ STOCKWORK |             |               |                                                                                                                                                                              |                         | DATE      | AUGUST 19/86 |                        |               |           |       |         |           |            |
| SECTION   | FROM                                          | TO          | 1 ft = 0.305m | ROCK DESCRIPTION                                                                                                                                                             | x REC                   | INTV.     | CORE LENGTH  | MINERALIZATION SUMMARY | ASSAYS        |           |       |         |           |            |
|           |                                               |             |               |                                                                                                                                                                              |                         |           |              |                        | SAMPLE NUMBER | INTERVAL  | WDTH  | AU OZ/T | AG P.P.M. | TAC NUMBER |
| 0         | 39'                                           | 39'         |               | - No Core (Casing to 74')                                                                                                                                                    | 38.3%                   | 39'- 49'  | 46"          | Py                     | 001           | 49' - 69' | 20'   | L0.002  | 0.2       | 38563F     |
| 39'       | 57'                                           | 57'         |               | - Light green to dark grey, clayey, talcose gouge rock with serpentine of fractures                                                                                          | 30%                     | to 59'    | 36"          |                        | 002           | to 72'    | 3'    | L0.002  | 0.4       | 38564F     |
| 57'       | 62.5'                                         | 62.5'       |               | - More competent, medium grained, intrusive diorite to ultramafic. Serpentine on fractures, minor mariposite. Pyrite on fractures and in vugs toward 62.5'.                  | 72.5%                   | to 69'    | 87"          |                        | 003           | to 85'    | 13'   | L0.002  | 0.2       | 38565F     |
| 62.5'     | 69'                                           | 69'         |               | - Dark grey, clay altered, serpentized ultra-mafic. Abundant pyrite for first 2' (2-5%).                                                                                     | 72.5%                   | to 79'    | 87"          |                        | 004           | to 95.5'  | 10.5' | L0.002  | 0.4       | 38566F     |
| 69'       | 69.1'                                         | 69.1'       |               | - Quartz pebbles                                                                                                                                                             | 66.7%                   | to 89'    | 80"          |                        | 005           | to 107'   | 11.5' | L0.002  | 0.4       | 38567F     |
| 69.1'     | 72.5'                                         | 72.5'       |               | - Very soft, light grey, talcose ultramafic, slightly serpentized, no pyrite                                                                                                 | 94.2%                   | to 99'    | 113"         |                        | 006           | to 112'   | 5"    | L0.002  | 0.4       | 38568F     |
| 72.5'     | 85.5'                                         | 85.5'       |               | - Contact at 72.5'. Now into grey and black fractured but competent chert. Minor serpentine bands along fractures. Pyrite and calcite in vuggy areas. Minor pyrite (L 1/2%). | 75.0%                   | to 109'   | 90"          |                        | 007           | to 120'   | 8'    | L0.002  | 0.4       | 38569F     |
| 85.5'     | 95.5'                                         | 95.5'       |               | - Light to dark grey clay altered talcose and serpentized ultramafic. 1-2% chert pebbles within.                                                                             | 98.3%                   | to 119'   | 118"         |                        | 008           | to 128.5' | 8.5"  | L0.002  | 0.4       | 38570F     |
| 95.5'     | 146.5'                                        | 146.5'      |               | - Inter-brecciated vuggy chert and serpentized ultramafic (50% - 50%). Chert has minor quartz and pyrite along fracture and in vugs.                                         | 100%                    | to 129'   | 120"         |                        | 009           | to 139'   | 10.5' | L0.002  | 0.4       | 38571F     |
| 146.5'    | 147'                                          | 147'        |               | - Massive talcose ultramafic (ie. soapstone), light grey/green.                                                                                                              | 50%                     | to 139'   | 117"         |                        | 010           | to 151'   | 12'   | L0.002  | 0.6       | 38572F     |
| 147'      | 176.5'                                        | 176.5'      |               | - Dark grey unaltered to serpentized ultramafic. Few chert blebs within; minor pyrite in the chert, competent                                                                | 80.8%                   | to 149'   | 97"          |                        | 011           | to 159'   | 8'    | L0.002  | 0.2       | 38573F     |
| 176.5'    | 303'                                          | 303'        |               | - Intrusive dioritic dyke. Medium grained but fine grained and pyritic at 185'. Light grey/green.<br>(looks like sandstone at a glance)                                      | 94.2%                   | to 159'   | 116"         |                        | 012           | to 169'   | 10"   | L0.002  | 0.2       | 38574F     |
| 303'      | 368'                                          | 368'        |               | - Massive serpentized ultramafic. Small areas within of talcose or unaltered ultramafic. No sulfides. Less altered towards 368'.                                             | 86.7%                   | to 179'   | 104"         |                        | 013           | to 175'   | 6"    | L0.002  | 0.4       | 38575F     |
| 0         | 368'                                          | 368'        |               | - Distinct contact with chert 048'                                                                                                                                           | 100%                    | to 189'   | 120"         |                        | 014           | to 180.5' | 5.5"  | L0.002  | 0.2       | 38576F     |
| 368'      | 375'                                          | 375'        |               | - Grey and black chert breccia, competent. Fresh bright yellow pyrite along fractures.                                                                                       | 100%                    | to 199'   | 60"          |                        | 015           | to 187'   | 6.5"  | L0.002  | 0.4       | 38577F     |
| 0         | 375'                                          | 375'        |               | - Indistinct contact - approximately 55°. Back into serpentized ultramafic                                                                                                   | 100%                    | to 209'   | 79"          | TR                     | 016           | to 199'   | 12"   | L0.002  | 0.2       | 38578F     |
| 375'      | 381.5'                                        | 381.5'      |               | - Dark grey, serpentized ultramafic.                                                                                                                                         | 100%                    | to 239'   | 112"         |                        | 017           | to 219'   | 20'   | L0.002  | 0.4       | 38579F     |
| 381.5'    | 393.5'                                        | 393.5'      |               | - Dark grey/brown mostly unaltered ultramafic. Some is slightly serpentized, Fairly competent minor chert inclusions, minor pyrite along fractures.                          | 62.5%                   | to 309'   | 75"          |                        | 018           | to 239'   | 20"   | L0.002  | 0.2       | 38580F     |
| 393.5'    | 429'                                          | 429'        |               | - Dark grey to dark green, soft, intensely serpentized ultramafic. 8" chert band at 399'. Few less altered areas within.                                                     | 60.0%                   | to 319'   | 72"          |                        | 019           | to 259'   | 20"   | L0.002  | 0.2       | 38581F     |
| 429'      | 432.5'                                        | 432.5'      |               | - White, massive, talcose, competent ultramafic. Abundant pyrite smears along fractures.                                                                                     | 50.0%                   | to 329'   | 60"          | TR                     | 020           | to 279'   | 20"   | L0.002  | 0.4       | 38582F     |
| 432.5'    | 436'                                          | 436'        |               | - Soft, clayey, inter-mixed talcose and serpentized ultramafic. Minor finely                                                                                                 | 100%                    | to 339'   | 120"         |                        | 021           | to 289'   | 10"   | L0.002  | 0.4       | 38583F     |
|           |                                               |             |               |                                                                                                                                                                              | 100%                    | to 349'   | 120"         |                        | 022           | to 301'   | 12'   | L0.002  | 0.4       | 38584F     |
|           |                                               |             |               |                                                                                                                                                                              | 100%                    | to 359'   | 105"         |                        | 023           | to 319'   | 18"   | L0.002  | 0.4       | 38585F     |
|           |                                               |             |               |                                                                                                                                                                              | 100%                    | to 369'   | 92"          | 2%                     | 024           | to 339'   | 20"   | L0.002  | 0.4       | 38586F     |
|           |                                               |             |               |                                                                                                                                                                              | 100%                    | to 379'   | 117"         |                        | 025           | to 354.5' | 15.5" | L0.002  | 0.6       | 38587F     |
|           |                                               |             |               |                                                                                                                                                                              | 100%                    | to 389'   | 118"         |                        | 026           | to 365'   | 10.5" | L0.002  | 0.4       | 38588F     |
|           |                                               |             |               |                                                                                                                                                                              | 100%                    | to 299'   | 120"         |                        | 027           | to 375'   | 10"   | L0.002  | 0.2       | 38589F     |
|           |                                               |             |               |                                                                                                                                                                              | 100%                    | to 309'   | 75"          |                        | 028           | to 381.5' | 6.5"  | L0.002  | 0.4       | 38590F     |
|           |                                               |             |               |                                                                                                                                                                              | 60.0%                   | to 319'   | 72"          |                        | 029           | to 392'   | 10.5" | L0.002  | 0.4       | 38591F     |
|           |                                               |             |               |                                                                                                                                                                              | 50.0%                   | to 329'   | 60"          |                        | 030           | to 399.5' | 7.5"  | L0.002  | 0.4       | 38592F     |
|           |                                               |             |               |                                                                                                                                                                              | 100%                    | to 339'   | 120"         |                        | 031           | to 409'   | 9.5"  | L0.002  | 0.2       | 38593F     |
|           |                                               |             |               |                                                                                                                                                                              | 58.3%                   | to 349'   | 70"          |                        | 032           | to 419'   | 10"   | L0.002  | 0.4       | 38594F     |
|           |                                               |             |               |                                                                                                                                                                              | 87.5%                   | to 359'   | 105"         |                        | 033           | to 429'   | 10"   | L0.002  | 0.4       | 38595F     |
|           |                                               |             |               |                                                                                                                                                                              | 76.7%                   | to 369'   | 92"          |                        | 034           | to 432.5' | 3.5"  | L0.002  | 0.2       | 38596F     |
|           |                                               |             |               |                                                                                                                                                                              | 97.5%                   | to 379'   | 117"         |                        | 035           | to 437.5' | 5"    | L0.002  | 0.2       | 38597F     |

# DIAMOND DRILL RECORD

HOLE NO. PGM DDK 86-4 PAGE 2 OF 2

| SECTION<br>FEET | ROCK DESCRIPTION<br>NAME COLOUR: TEXTURE: SIZE & % MINERALS OR FRAGMENTS.<br>REMARKS (VEIN SEQUENCE: GOUGE ZONES ETC.) | REC.                                                                                                                                           | INTERVAL | CORE LENGTH | MINERALIZATION SUMMARY |           | ASSAYS |         |           |            |            |        |
|-----------------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|------------------------|-----------|--------|---------|-----------|------------|------------|--------|
|                 |                                                                                                                        |                                                                                                                                                |          |             | SAMPLE NUMBER          | INTERVAL  | WIDTH  | AU OZ/T | AG P.P.M. | TAG NUMBER |            |        |
| 432.5           | 436'                                                                                                                   | (Continued)<br>disseminated pyrite.                                                                                                            | 70.0%    | to 399'     | 84"                    | Py        | Mp     | 036     | to 445.5' | 8'         | LO.002 0.4 | 38598F |
| 436'            | 444.5'                                                                                                                 | - Massive, white talcose, competent ultramafic. Fine pyrite along all fractures.                                                               | 100%     | to 409'     | 120"                   | Up to 10% |        | 037     | to 449'   | 3.5'       | LO.002 0.4 | 38599F |
| 444.5'          | 449'                                                                                                                   | - Black, slightly serpentinized but mostly unaltered ultramafic. Minor quartz stringers.                                                       | 90.0%    | to 419'     | 108"                   |           |        | 038     | to 452'   | 3'         | LO.002 0.4 | 38600F |
|                 |                                                                                                                        |                                                                                                                                                | 100%     | to 429'     | 120"                   |           |        | 039     | to 454'   | 2'         | LO.002 0.2 | 38601F |
| 449'            | 454'                                                                                                                   | - Same ultramafic as last but with mariposite and more quartz stringer to 1cm but too wavy to allow orientations. Few very small pyrite cubes. | 91.7%    | to 439'     | 110"                   | TR        | TR     | 040     | to 469'   | 15"        | LO.002 0.4 | 38602F |
| 454'            | 470'                                                                                                                   | - Light grey, slightly clay altered ultramafic (or ultrabasic). Competent with a few crumbly areas.                                            | 97.5%    | to 449'     | 117"                   |           |        | 041     | to 476.5' | 7.5"       | LO.002 0.2 | 38603F |
| 470'            | 489'                                                                                                                   | - Medium to dark grey, competent, unaltered ultramafic (or ultrabasic). Few 1mm quartz stringers. Minor chert blebs within.                    | 100%     | to 459'     | 120"                   |           |        | 042     | to 487'   | 10.5"      | LO.002 0.2 | 38604F |
| 489'            | 492'                                                                                                                   | - Broken chert with minor quartz stringers.                                                                                                    | 100%     | to 469'     | 120"                   |           |        | 043     | to 495.5' | 8.5"       | LO.002 0.4 | 38605F |
| 492'            | 493'                                                                                                                   | - Clayey talcose ultramafic gouge.                                                                                                             | 72.5%    | to 479'     | 87"                    |           |        | 044     | to 504'   | 8.5"       | LO.002 0.2 | 38606F |
| 493'            | 500.5'                                                                                                                 | - Dark grey, slightly serpentinized ultramafic. Minor quartz blobs and stringers and minor mariposite. Few sulfides along fractures.           | 91.7%    | to 489'     | 110"                   | L1/2%     | L1/2%  |         |           |            |            |        |
| 500.5'          | 504'                                                                                                                   | - White, soft, talcose ultramafic; minor serpentine and pyrite along fractures.                                                                | 72.5%    | to 499'     | 87"                    |           |        |         |           |            |            |        |
|                 |                                                                                                                        |                                                                                                                                                | 93.3%    | to 504'     | 56"                    |           |        |         |           |            |            |        |
|                 |                                                                                                                        |                                                                                                                                                |          |             |                        | TR        |        |         |           |            |            |        |

PROPERTY PERRON GOLD MINES  
McKEE CREEK

# DIAMOND DRILL RECORD

HOLE NO. PGM DDH 86-5 PAGE 1 OF 2

| LATITUDE     | 59°28'                              | DIPS-COLLAR | -45°           | AZIMUTH                                                                                                                                                                                  | 139°                                | STARTED    | AUGUST 17/86 |                                |               |             |       |         |           |            |
|--------------|-------------------------------------|-------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------|--------------|--------------------------------|---------------|-------------|-------|---------|-----------|------------|
| LONGITUDE    | 133°33'                             |             |                | CORE SIZE                                                                                                                                                                                | NQ                                  | COMPLETED  | AUGUST 22/86 |                                |               |             |       |         |           |            |
| ELEVATION    | 2760'                               |             |                | CONTRACTOR                                                                                                                                                                               | PHIL'S DIAMOND DRILLING             | LENGTH     | 574'         |                                |               |             |       |         |           |            |
| SHEET NO.    | PGM DDH 86-5                        |             |                |                                                                                                                                                                                          |                                     | LOGGED BY  | DAVE NEWTON  |                                |               |             |       |         |           |            |
| TARGET       | SHEAR ZONE, MARIPOSITE AND SULFIDES |             |                |                                                                                                                                                                                          | <th>DATE</th> <td>AUGUST 24/86</td> | DATE       | AUGUST 24/86 |                                |               |             |       |         |           |            |
| SECTION (FT) | FROM                                | TO          | 1 ft = 0.305 m | ROCK DESCRIPTION                                                                                                                                                                         | X REC                               | INTV. feet | CORE LENGTH  | MINERALIZATION SUMMARY         | ASSAYS        |             |       |         |           |            |
|              |                                     |             |                |                                                                                                                                                                                          |                                     |            |              |                                | SAMPLE NUMBER | INTERVAL    | WIDTH | AU OZ/T | AC P.P.M. | TAG NUMBER |
| 0            | 104                                 | 109         |                | Casing                                                                                                                                                                                   | 72.5%                               | 109-119    | 87"          |                                | 001           | 105' - 119' | 14'   | 0.002   | 1.4       | 38615F     |
| 104          | 109                                 |             |                | Dark green to dark grey, competent, slightly serpentinized ultramafic and 20% chert.                                                                                                     | 79.2%                               | to 129     | 95"          |                                | 002           | to 129.5'   | 10.5' | 0.002   | 1.4       | 16F        |
| 109          | 117                                 |             |                | Dark green, competent, slightly serpentinized ultramafic - quartz and calcite in vugs.                                                                                                   | 67.5%                               | to 139     | 81"          |                                | 003           | to 139'     | 9.5'  | 0.002   | 0.8       | 17F        |
| 117          | 127                                 |             |                | Light to dark grey - more serpentinized, less competent than above - minor quartz and calcite in vugs.                                                                                   | 58.3%                               | to 149     | 70"          | Pyrite in blebs up to lcm wide | 004           | to 155'     | 16'   | 0.002   | 0.4       | 18F        |
| 127          | 129.5                               |             |                | Light grey to dark grey, competent, slightly talcose and serpentinized ultramafic                                                                                                        | 87.5%                               | to 159     | 105"         |                                | 005           | to 162.5'   | 7.5'  | 0.002   | 0.8       | 19F        |
| 129.5        | 139                                 |             |                | Slightly to strongly serpentinized ultramafic - talcose at 136'.                                                                                                                         | 76.6%                               | to 169     | 92"          |                                | 006           | to 165.5'   | 3'    | 0.002   | 0.8       | 20F        |
| 139          | 155                                 |             |                | Light to dark grey graphitic argillite and chert - serpentinized along fractures - minor, vuggy, coarse grained quartz.                                                                  | 100%                                | to 179     | 120"         |                                | 007           | to 174'     | 8.5'  | 0.002   | 0.4       | 21F        |
| 155          | 162.5                               |             |                | Light green to dark grey, soft, clayery, strongly serpentinized ultramafic - minor, up to 5%, argillite.                                                                                 | 100%                                | to 189     | 120"         |                                | 008           | to 183.5'   | 9.5'  | 0.002   | 0.6       | 22F        |
| 162.5        | 165.5                               |             |                | Light grey, chert/graphitic argillite - serpentine along fractures - vuggy                                                                                                               | 91.6%                               | to 199     | 120"         |                                | 009           | to 193.5'   | 10'   | 0.002   | 0.6       | 23F        |
| 165.5        | 183.5                               |             |                | Soft, clayey, talcose and serpentinized ultramafic - minor quartz.                                                                                                                       | 83.3%                               | to 209     | 110"         |                                | 010           | to 197'     | 3.5'  | 0.002   | 0.4       | 24F        |
| 183.5        | 197                                 |             |                | More competent than 165.5 to 183.5' - competence increases and clay alteration decreases with depth - 2% mariposite and quartz veinlets from 193' to 197'                                | 98.3%                               | to 219     | 115"         |                                | 011           | to 209'     | 12'   | 0.002   | 0.4       | 25F        |
| 197          | 289                                 |             |                | Light grey, competent, unaltered ultrabasic - randomly orientated quartz and calcite stringers - veining, graphitic and pyrite increase at 222' to 228', 240' to 243', and 259' to 264'. | 100%                                | to 229     | 120"         | 1/2% pyrite                    | 012           | to 221'     | 12'   | 0.002   | 0.4       | 26F        |
| 289          | 292.5                               |             |                | Increased fracturing, minor clay alteration of ultrabasic.                                                                                                                               | 95.8%                               | to 239     | 120"         |                                | 013           | to 229'     | 8'    | 0.002   | 0.4       | 27F        |
| 292.5        | 294                                 |             |                | Light to dark grey, competent, unaltered ultramafic.                                                                                                                                     | 84.2%                               | to 249     | 110"         | Py                             | 014           | to 239'     | 10'   | 0.002   | 0.6       | 28F        |
| 294          | 304                                 |             |                | Light to dark grey - increasing clay and talc alteration with depth.                                                                                                                     | 96.7%                               | to 259     | 100"         | Mp                             | 015           | to 244'     | 5'    | 0.002   | 0.4       | 29F        |
| 304          | 307                                 |             |                | Light grey, more competent, moderately clay altered ultramafic.                                                                                                                          | 100%                                | to 269     | 118"         |                                | 016           | to 259'     | 15'   | 0.002   | 0.2       | 30F        |
| 307          | 317                                 |             |                | Soft, intensely clay altered.                                                                                                                                                            | 100%                                | to 279     | 120"         |                                | 017           | to 264'     | 5'    | 0.002   | 0.4       | 31F        |
| 317          | 319                                 |             |                | Light green, competent, moderate clay alteration - wispy, graphitic areas with minor vuggy quartz.                                                                                       | 100%                                | to 289     | 120"         | 3%                             | 018           | to 284'     | 20'   | 0.002   | 0.4       | 32F        |
| 319          | 334                                 |             |                | Light to dark grey, intensely clay altered (gouge) with minor areas of less alteration and increased competence.                                                                         | 95.8%                               | to 299     | 115"         |                                | 019           | to 294'     | 10'   | 0.002   | 0.4       | 33F        |
| 334          | 343.5                               |             |                | Grey, moderately clay altered, talcose and slightly serpentinized ultramafic - lcm wide quartz vein in dark grey gouge at 338.5'.                                                        | 84.2%                               | to 309     | 101"         |                                | 020           | to 314'     | 20'   | 0.002   | 0.2       | 34F        |
| 343.5        | 344.5                               |             |                | Grey chert - vuggy - minor quartz.                                                                                                                                                       | 96.7%                               | to 319     | 116"         |                                | 021           | to 329'     | 15'   | 0.002   | 0.2       | 35F        |
| 344.5        | 350                                 |             |                | Clayey ultramafic - minor serpentinization.                                                                                                                                              | 100%                                | to 329     | 120"         |                                | 022           | to 349'     | 20'   | 0.002   | 0.2       | 36F        |
| 350          | 355                                 |             |                | Chert/argillite with minor talc and serpentinization.                                                                                                                                    | 86.7%                               | to 349     | 104"         |                                | 023           | to 354'     | 5'    | 0.002   | 0.2       | 37F        |
| 355          | 357                                 |             |                | Grey gouge.                                                                                                                                                                              | 100%                                | to 359     | 120"         | TR                             | 024           | to 363.5'   | 9.5'  | 0.002   | 0.2       | 38F        |
|              |                                     |             |                |                                                                                                                                                                                          | 95.8%                               | to 369     | 115"         |                                | 025           | to 372'     | 8.5'  | 0.002   | 0.2       | 39F        |
|              |                                     |             |                |                                                                                                                                                                                          | 85.0%                               | to 379     | 102"         |                                | 026           | to 381'     | 9'    | 0.002   | 1.0       | 40F        |
|              |                                     |             |                |                                                                                                                                                                                          | 92.5%                               | to 389     | 111"         |                                | 027           | to 399'     | 18'   | 0.002   | 0.4       | 41F        |
|              |                                     |             |                |                                                                                                                                                                                          | 100%                                | to 399     | 120"         |                                | 028           | to 409'     | 10'   | 0.002   | 0.4       | 42F        |
|              |                                     |             |                |                                                                                                                                                                                          | 97.5%                               | to 419     | 117"         |                                | 029           | to 422'     | 13'   | 0.002   | 0.4       | 43F        |
|              |                                     |             |                |                                                                                                                                                                                          | 95.8%                               | to 429     | 115"         |                                | 030           | to 435'     | 13'   | 0.002   | 0.4       | 44F        |
|              |                                     |             |                |                                                                                                                                                                                          | 100%                                | to 439     | 120"         |                                | 031           | to 444'     | 9'    | 0.002   | 0.4       | 45F        |
|              |                                     |             |                |                                                                                                                                                                                          | 100%                                | to 449     | 120"         |                                | 032           | to 459'     | 15'   | 0.002   | 0.6       | 46F        |
|              |                                     |             |                |                                                                                                                                                                                          | 69.2%                               | to 459     | 83"          |                                | 033           | to 466'     | 7'    | 0.002   | 1.0       | 47F        |
|              |                                     |             |                |                                                                                                                                                                                          |                                     |            |              |                                | 034           | to 475      | 9'    | 0.002   | 0.2       | 48F        |
|              |                                     |             |                |                                                                                                                                                                                          |                                     |            |              |                                | 035           | to 489      | 14'   | 0.002   | 0.4       | 49F        |

# DIAMOND DRILL RECORD

HOLE NO. PGM DDH 86-5

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| SECTION<br>FEET | ROCK DESCRIPTION<br>NAME COLOUR; TEXTURE; SIZE & % MINERALS OR FRAGMENTS.<br>REMARKS (VEIN SEQUENCE; GOUGE ZONES ETC.) | REC.<br>% | INTERVAL                                                                                                                                                                           | CORE LENGTH   | MINERALIZATION SUMMARY | ASSAYS        |          |           |         |           |            |        |
|-----------------|------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------|---------------|----------|-----------|---------|-----------|------------|--------|
|                 |                                                                                                                        |           |                                                                                                                                                                                    |               |                        | SAMPLE NUMBER | INTERVAL | WIDTH     | AU OZ/T | AC P.P.M. | TAG NUMBER |        |
| FROM            | TO                                                                                                                     |           |                                                                                                                                                                                    |               |                        |               |          |           |         |           |            |        |
| 357             | 363.5                                                                                                                  |           | Light grey ultrabasic - slight to strongly clay altered with some talc - wispy, black graphite in places with associated vuggy quartz.                                             | 70.0% 459-469 | 84"                    | Py TR         | 036      | 489'-509' | 20'     | 0.002     | 0.4        | 38650F |
| 363.5           | 382                                                                                                                    |           | Chert breccia - light to dark grey chert clasts in a dark grey to black argillitic matrix - vuggy - minor quartz veinlets.                                                         | 100% to 479   | 120"                   | Up to 5%      | 037      | to 522'   | 13'     | 0.002     | 0.4        | 38712F |
| 382             | 422                                                                                                                    |           | Light grey, moderately to strongly clayey, talcose altered ultramafic with serpentine along fractures - wispy, black graphite in places - minor chert.                             | 88.3% to 489  | 106"                   |               | 038      | to 529'   | 7'      | 0.002     | 0.4        | 38713F |
| 422             | 435                                                                                                                    |           | Grey, vuggy, chert/argillite breccia - pyrite as blebs, disseminations and along fractures.                                                                                        | 94.2% to 499  | 113"                   |               | 039      | to 539'   | 10'     | 0.002     | 0.2        | 14F    |
|                 |                                                                                                                        |           |                                                                                                                                                                                    | 100% to 509   | 120"                   | 1%            | 040      | to 549'   | 10'     | 0.002     | 0.2        | 15F    |
|                 |                                                                                                                        |           |                                                                                                                                                                                    | 100% to 519   | 120"                   |               | 041      | to 564'   | 15'     | 0.002     | 0.2        | 16F    |
|                 |                                                                                                                        |           |                                                                                                                                                                                    | 100% to 529   | 120"                   |               | 042      | to 574'   | 10'     | 0.002     | 0.2        | 17F    |
| 435             | 444                                                                                                                    |           | Light grey, fairly competent, talcose ultramafic                                                                                                                                   | 100% to 539   | 120"                   | TR            |          |           |         |           |            |        |
| 444             | 459                                                                                                                    |           | Medium grey, soft, clay altered, talcose and serpentized ultramafic - 450' to 452' dark grey gouge.                                                                                | 100% to 549   | 120"                   | 1/2%          |          |           |         |           |            |        |
| 459             | 466                                                                                                                    |           | Light grey chert.                                                                                                                                                                  |               |                        | Up to 1/2%    |          |           |         |           |            |        |
| 466             | 469                                                                                                                    |           | Dark grey, soft, clayey, slightly to moderately serpentized ultramafic.                                                                                                            |               |                        |               |          |           |         |           |            |        |
| 469             | 470                                                                                                                    |           | Talcose and serpentized ultramafic with 50% chert.                                                                                                                                 |               |                        |               |          |           |         |           |            |        |
| 470             | 473                                                                                                                    |           | Light grey chert - talc along fractures.                                                                                                                                           |               |                        |               |          |           |         |           |            |        |
| 473             | 476                                                                                                                    |           | Talc rock with serpentine along fractures                                                                                                                                          |               |                        |               |          |           |         |           |            |        |
| 476             | 495                                                                                                                    |           | Soft, clayey intermixed talcose and serpentized ultramafic at 493', minor coarse quartz crystals.                                                                                  |               |                        |               |          |           |         |           |            |        |
| 495             | 522.5                                                                                                                  |           | Soft, moderately to strongly talcose and serpentized ultramafic - minor chert.                                                                                                     |               |                        |               |          |           |         |           |            |        |
|                 | 557                                                                                                                    |           | Light grey, unaltered ultrabasic - serpentine and pyrite along fracture - graphitic and vuggy quartz at 546.5', 548.5'.                                                            |               |                        |               |          |           |         |           |            |        |
| 557             | 574                                                                                                                    |           | Light to dark grey, slightly serpentized ultramafic - minor chert - serpentine and talc along fractures - minor vuggy calcite - quartz along some fractures between 568' and 569'. |               |                        | Minor         |          |           |         |           |            |        |

PERRON - HOLE #1



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ATLIN, BC  
V0W 1AO

CERT. #: A8616799-001-A  
INVOICE #: I8616799  
DATE : 26-AUG-86  
P.C. #: NONE  
ATLIN

CC: LINDA DANDY

| Sample description | Prep code | Au oz/T |    |    |    |    |    |
|--------------------|-----------|---------|----|----|----|----|----|
| 38501 86-1 PGM     | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38502              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38503              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38504              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38505              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38506              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38507              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38508              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38509              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38510              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38511              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38512              | 207       | 0.004   | -- | -- | -- | -- | -- |
| 38513              | 207       | 0.004   | -- | -- | -- | -- | -- |
| 38514              | 207       | 0.006   | -- | -- | -- | -- | -- |
| 38515              | 207       | 0.002   | -- | -- | -- | -- | -- |
| 38516              | 207       | 0.002   | -- | -- | -- | -- | -- |
| 38517              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38518              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38519              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38520              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38521              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38522              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38523              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38524              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38525              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38526              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38527              | 207       | 0.006   | -- | -- | -- | -- | -- |
| 38528              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38529              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38530              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38531              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38970              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38971              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38972              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38973              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38974              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38975              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38976              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38977              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38978              | 207       | <0.002  | -- | -- | -- | -- | -- |

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INVOICE # : 18616799  
DATE : 26-AUG-86  
P.C. # : NONE  
ATLIN

CC: LINDA DANDY

| Sample description | Prep code | Au oz/T |    |    |    |    |    |    |
|--------------------|-----------|---------|----|----|----|----|----|----|
| 38979              | 207       | <0.002  | -- | -- | -- | -- | -- | -- |
| 38980              | 207       | <0.002  | -- | -- | -- | -- | -- | -- |
| 38981              | 207       | <0.002  | -- | -- | -- | -- | -- | -- |
| 38982              | 207       | <0.002  | -- | -- | -- | -- | -- | -- |
| 38983              | 207       | <0.002  | -- | -- | -- | -- | -- | -- |
| 38984              | 207       | <0.003  | -- | -- | -- | -- | -- | -- |

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P.O. #  
P.G.M./MCKEE

CERT. #: A8617203-001-A  
INVOICE #: I8617203  
DATE : 7-SEP-86  
P.O. #: NONE

CC: LINDA DANDY ✓

| Sample description | Prep code | Au oz/T |    |    |    |    |    |
|--------------------|-----------|---------|----|----|----|----|----|
| 38532              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38533              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38534              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38535              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38536              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38537              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38538              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38539              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38540              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38541              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38542              | 207       | 0.002   | -- | -- | -- | -- | -- |
| 38543              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38544              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38545              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38546              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38547              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38548              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38549              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38550              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38551              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38552              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38553              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38554              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38555              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38556              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38557              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38558              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38559              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38560              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38561              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38562              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38985              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38986              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38987              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38988              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38989              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38990              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38991              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38992              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38993              | 207       | <0.002  | -- | -- | -- | -- | -- |

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CC: LINDA DANDY

| Sample description | Prep code | Au oz/T |    |    |    |    |    |
|--------------------|-----------|---------|----|----|----|----|----|
| 38994              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38995              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38996              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38997              | 207       | 0.002   | -- | -- | -- | -- | -- |
| 38998              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38999              | 207       | <0.002  | -- | -- | -- | -- | -- |
| 39000              | 207       | <0.002  | -- | -- | -- | -- | -- |



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INVOICE # : I8617514  
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ATLIN

ATTN: ART TROUP CC: LINDA DANDY

| Sample description | Prep code | Au oz/T |    |    |    |    |    |
|--------------------|-----------|---------|----|----|----|----|----|
| 38563 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38564 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38565 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38566 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38567 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38568 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38569 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38570 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38571 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38572 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38573 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38574 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38575 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38576 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38577 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38578 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38579 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38580 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38581 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38582 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38583 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38584 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38585 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38586 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38587 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38588 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38589 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38590 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38591 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38592 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38593 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38594 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38595 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38596 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38597 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38598 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38599 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38600 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38601 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38602 F            | 207       | <0.002  | -- | -- | -- | -- | -- |

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INVOICE # : I8617514  
DATE : 12-SEP-86  
P.O. # : NONE  
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ATTN: ART TROUP CC: LINDA DANDY

| Sample<br>description | Prep<br>code | Au<br>oz/T |    |    |    |    |    |
|-----------------------|--------------|------------|----|----|----|----|----|
| 38603 F               | 207          | <0.002     | -- | -- | -- | -- | -- |
| 38604 F               | 207          | <0.002     | -- | -- | -- | -- | -- |
| 38605 F               | 207          | <0.002     | -- | -- | -- | -- | -- |
| 38606 F               | 207          | <0.002     | -- | -- | -- | -- | -- |

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INVOICE # : I8617884  
DATE : 16-SEP-86  
P.O. # : NONE  
ATLIN

ATTN: ART TROUP CC: LINDA DANDY

| Sample description | Prep code | Au oz/T |    |    |    |    |    |
|--------------------|-----------|---------|----|----|----|----|----|
| 38607 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38608 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
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| 38611 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38612 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38613 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38614 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38615 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38616 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38617 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38618 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38619 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38620 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38621 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38622 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38623 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38624 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38625 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38626 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38627 F            | 207       | 0.002   | -- | -- | -- | -- | -- |
| 38628 F            | 207       | 0.002   | -- | -- | -- | -- | -- |
| 38629 F            | 207       | 0.002   | -- | -- | -- | -- | -- |
| 38630 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38631 F            | 207       | 0.002   | -- | -- | -- | -- | -- |
| 38632 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38633 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38634 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38635 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38636 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38637 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38638 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38639 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38640 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38641 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38642 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38643 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38644 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38645 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38646 F            | 207       | <0.002  | -- | -- | -- | -- | -- |

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INVOICE # : I8617884  
DATE : 16-SEP-86  
P.O. # : NONE  
ATLIN

ATTN: ART TROUP CC: LINDA DANDY

| Sample description | Prep code | Au oz/T |    |    |    |    |    |
|--------------------|-----------|---------|----|----|----|----|----|
| 38647 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38648 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38649 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38650 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38712 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38713 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38714 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38715 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38716 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38717 F            | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38718 F O'gzt int. | 207       | 0.010   | -- | -- | -- | -- | -- |
| 38719 F O'         | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38720 F GALLANT    | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38721 F O-S        | 207       | <0.002  | -- | -- | -- | -- | -- |
| 38722 F O-S        | 207       | <0.002  | -- | -- | -- | -- | -- |

*W. Normandin*  
Registered Assayer, Province of British Columbia  
VOI rev. 4/85



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

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## CERTIFICATE OF ASSAY

TO : MARK MANAGEMENT LIMITED

1900 - 999 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6C 2W2

P.M. / MCE  
CERT. # : A8617516-001-A  
INVOICE # : I8617516  
DATE : 16-SEP-86  
P.O. # : NONE  
ATLIN

ATTN: ART TROUP CC: LINDA DANDY

| Sample description | Prep code | Total Au oz/t | Au - oz/t | Au + mg | Weight grams | Weight - grams |
|--------------------|-----------|---------------|-----------|---------|--------------|----------------|
| 38701 F            | 207       | <0.002        | <0.002    | <0.003  | 10.70        | 320            |
| 38702 F            | 207       | <0.002        | <0.002    | <0.003  | 2.00         | 244            |
| 38703 F            | 207       | <0.002        | <0.002    | <0.003  | 9.40         | 333            |
| 38704 F            | 207       | <0.002        | <0.002    | <0.003  | 11.90        | 306            |
| 38705 F            | 207       | <0.002        | <0.002    | <0.003  | 22.00        | 225            |
| 38706 F            | 207       | <0.002        | <0.002    | <0.003  | 8.70         | 250            |
| 38707 F            | 207       | <0.002        | <0.002    | <0.003  | 2.40         | 167            |
| 38708 F            | 207       | <0.002        | <0.002    | <0.003  | 13.10        | 303            |
| 38709 F            | 207       | <0.002        | <0.002    | <0.003  | 14.80        | 268            |
| 38710 F            | 207       | <0.002        | <0.002    | <0.003  | 3.70         | 231            |
| 38711 F            | 207       | <0.002        | <0.002    | <0.003  | 13.70        | 221            |

.....*W. Herkmanini*.....

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Semi quantitative multi element ICP analysis

Nitric-Aqua-Regia digestion of 0.5 gm of material followed by ICP analysis. Since this digestion is incomplete for many minerals, values reported for Al, Si, Ba, Be, Ca, Cr, Ga, La, Mg, K, Na, Sr, Ti, Ti, W and V can only be considered as semi-quantitative.

Comments:  
CC: LINDA DANDY

## CERTIFICATE OF ANALYSIS

TO : MARK MANAGEMENT LIMITED  
1900 - 999 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6C 2W2

CERT. #: A8616800-001-A  
INVOICE #: I8616800  
DATE : 2-SEP-86  
P.O. #: NONE  
ATLIN

SYSTEMS BUSINESS FORMS LIMITED VANCOUVER TR2059527

| Sample description | Al % | Ag ppm | As ppm | Ba ppm   | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | K % | La ppm | Mg % | Mn ppm   | Mo ppm | Na % | Ni ppm | P ppm | Pb ppm | St ppm | Sr ppm | Ti % | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |
|--------------------|------|--------|--------|----------|--------|--------|------|--------|--------|--------|--------|------|--------|-----|--------|------|----------|--------|------|--------|-------|--------|--------|--------|------|--------|-------|-------|-------|--------|
| 38501              | 1.10 | 2.2    | 80     | 160 <0.5 | 6      | 5.50   | 1.0  | 40     | 172    | 132    | 6.27   | 20   | 0.15   | <10 | 3.29   | 1551 | 1 <0.01  | 102    | 170  | 1248   | 10    | 30     | 0.01   | <10    | 147  | <10    | 682   | --    | --    |        |
| 38502              | 2.64 | 1.0    | 40     | 260 <0.5 | 4      | 2.29   | <0.5 | 40     | 121    | 92     | 6.32   | 10   | 0.74   | <10 | 4.03   | 1264 | <1 <0.03 | 68     | 330  | 426    | 10    | 29     | 0.09   | <10    | <10  | 234    | <10   | 300   | --    | --     |
| 38503              | 2.33 | 1.2    | 40     | 320 <0.5 | 3      | 2.35   | <0.5 | 41     | 129    | 104    | 6.54   | 10   | 0.65   | <10 | 3.83   | 997  | <1 <0.03 | 89     | 270  | 312    | 10    | 24     | 0.08   | <10    | <10  | 206    | <10   | 190   | --    | --     |
| 38504              | 1.73 | 1.0    | 50     | 130 <0.5 | 8      | 5.41   | <0.5 | 55     | 504    | 162    | 6.37   | 20   | 0.26   | <10 | 3.70   | 1183 | 1 <0.01  | 313    | 230  | 192    | 10    | 67     | 0.01   | <10    | <10  | 148    | <10   | 158   | --    | --     |
| 38505              | 0.46 | 0.6    | 40     | 50 <0.5  | <2     | 16.40  | 1.0  | 12     | 101    | 30     | 3.26   | 40   | 0.15   | <10 | 7.86   | 829  | <1 <0.01 | 24     | 40   | 150    | 30    | 254    | <0.01  | <10    | <10  | 29     | <10   | 70    | --    | --     |
| 38506              | 1.00 | 1.0    | 50     | 200 <0.5 | 6      | 3.84   | <0.5 | 44     | 260    | 78     | 5.06   | 20   | 0.08   | <10 | 3.87   | 996  | 1 <0.01  | 347    | 640  | 164    | 20    | 72     | <0.01  | <10    | <10  | 80     | <10   | 138   | --    | --     |
| 38507              | 1.22 | 0.6    | 40     | 150 <0.5 | 8      | 4.43   | <0.5 | 26     | 79     | 58     | 4.53   | 20   | 0.06   | <10 | 2.68   | 819  | 1 <0.01  | 77     | 1470 | 84     | 10    | 22     | <0.01  | <10    | <10  | 70     | <10   | 148   | --    | --     |
| 38508              | 1.41 | 0.6    | 40     | 100 <0.5 | 6      | 3.90   | <0.5 | 31     | 231    | 62     | 4.06   | 20   | 0.05   | <10 | 3.56   | 1016 | 2 <0.01  | 268    | 960  | 124    | 20    | 47     | <0.01  | <10    | <10  | 85     | <10   | 126   | --    | --     |
| 38509              | 3.53 | 0.9    | 40     | 130 <0.5 | <2     | 4.66   | 0.5  | 49     | 839    | 58     | 4.85   | 20   | 0.28   | <10 | 5.79   | 1084 | 1 <0.01  | 272    | 360  | 140    | 10    | 58     | 0.03   | <10    | <10  | 109    | <10   | 118   | --    | --     |
| 38510              | 0.71 | 0.2    | 30     | 440 <0.5 | 8      | 1.69   | <0.5 | 13     | 91     | 71     | 2.37   | 10   | 0.11   | 10  | 1.67   | 569  | 2 <0.01  | 73     | 340  | 50     | 10    | 71     | <0.01  | <10    | <10  | 32     | <10   | 84    | --    | --     |
| 38511              | 0.48 | 0.8    | 50     | 240 <0.5 | 8      | 2.65   | <0.5 | 30     | 170    | 65     | 3.14   | 10   | 0.07   | <10 | 3.48   | 776  | 2 <0.01  | 308    | 380  | 120    | 20    | 78     | <0.01  | <10    | <10  | 34     | <10   | 102   | --    | --     |
| 38512              | 0.56 | 0.6    | 100    | 220 <0.5 | <2     | 3.75   | <0.5 | 33     | 198    | 45     | 3.59   | 10   | 0.11   | <10 | 4.47   | 843  | 1 <0.01  | 321    | 320  | 56     | 10    | 114    | <0.01  | <10    | <10  | 36     | <10   | 68    | --    | --     |
| 38513              | 0.36 | 0.6    | 80     | 220 <0.5 | 6      | 4.16   | <0.5 | 18     | 102    | 26     | 2.14   | 20   | 0.07   | <10 | 3.16   | 785  | 1 <0.01  | 162    | 190  | 58     | 10    | 125    | <0.01  | <10    | <10  | 18     | <10   | 54    | --    | --     |
| 38514              | 0.22 | 0.2    | 10     | 70 <0.5  | <2     | 5.67   | 0.5  | 72     | 457    | 24     | 4.31   | 20   | <0.01  | <10 | 8.84   | 983  | <1 <0.01 | 1152   | 10   | 20     | 20    | 109    | <0.01  | <10    | <10  | 21     | <10   | 48    | --    | --     |
| 38515              | 1.03 | 0.4    | 10     | 20 <0.5  | <2     | 3.24   | 1.0  | 89     | 1092   | 41     | 5.32   | 10   | <0.01  | <10 | 9.77   | 975  | <1 <0.01 | 1357   | <10  | <2     | 10    | 88     | <0.01  | <10    | <10  | 65     | <10   | 48    | --    | --     |
| 38516              | 1.15 | 0.4    | 60     | 160 <0.5 | 3      | 3.67   | <0.5 | 48     | 299    | 111    | 6.72   | 20   | 0.06   | <10 | 3.99   | 962  | 1 <0.01  | 409    | 510  | 32     | 10    | 102    | <0.01  | <10    | <10  | 120    | <10   | 114   | --    | --     |
| 38517              | 0.28 | 0.6    | 20     | 930 <0.5 | 4      | 0.91   | <0.5 | 4      | 34     | 16     | 1.09   | 10   | 0.04   | 10  | 0.46   | 164  | <1 <0.01 | 32     | 730  | 72     | <10   | 152    | <0.01  | <10    | <10  | 21     | <10   | 56    | --    | --     |
| 38518              | 0.14 | 0.4    | 20     | 230 <0.5 | 4      | 1.60   | <0.5 | 3      | 25     | 8      | 0.91   | 10   | 0.03   | <10 | 0.78   | 133  | <1 <0.01 | 15     | 160  | 26     | <10   | 35     | <0.01  | <10    | <10  | 9      | <10   | 26    | --    | --     |
| 38519              | 1.98 | 0.2    | 20     | 100 <0.5 | <2     | 4.11   | <0.5 | 55     | 655    | 48     | 4.99   | 30   | <0.01  | <10 | 6.88   | 1072 | 1 <0.01  | 627    | 680  | 20     | 10    | 121    | <0.01  | <10    | <10  | 89     | <10   | 94    | --    | --     |
| 38520              | 3.80 | 0.6    | 10     | 60 <0.5  | <2     | 4.43   | 0.5  | 54     | 841    | 53     | 5.54   | 30   | 0.29   | <10 | 7.98   | 1192 | <1 <0.01 | 394    | 420  | <2     | 10    | 108    | 0.04   | <10    | <10  | 140    | <10   | 76    | --    | --     |
| 38521              | 2.76 | 0.2    | 10     | 100 <0.5 | <2     | 4.16   | <0.5 | 50     | 661    | 53     | 4.82   | 20   | 0.47   | <10 | 5.99   | 1003 | <1 <0.01 | 396    | 410  | 2      | 10    | 111    | 0.07   | <10    | <10  | 133    | <10   | 64    | --    | --     |
| 38522              | 1.84 | 0.2    | 30     | 20 <0.5  | <2     | 4.61   | 0.5  | 65     | 954    | 48     | 5.47   | 30   | <0.01  | <10 | 9.07   | 1176 | <1 <0.01 | 911    | 500  | <2     | 10    | 148    | <0.01  | <10    | <10  | 79     | <10   | 74    | --    | --     |
| 38523              | 0.99 | 0.2    | 20     | 50 <0.5  | 6      | 1.61   | <0.5 | 19     | 91     | 73     | 2.87   | 20   | 0.01   | 10  | 2.88   | 439  | 5 <0.01  | 144    | 380  | 26     | <10   | 94     | <0.01  | <10    | <10  | 83     | <10   | 76    | --    | --     |
| 38524              | 2.51 | 0.2    | 60     | 10 <0.5  | <2     | 3.52   | <0.5 | 60     | 1108   | 34     | 4.57   | 20   | <0.01  | <10 | 7.39   | 1028 | <1 <0.01 | 694    | 550  | 8      | 10    | 122    | <0.01  | <10    | <10  | 76     | <10</ |       |       |        |



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## CERTIFICATE OF ANALYSIS

TO : MARK MANAGEMENT LIMITED  
1900 - 999 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6C 2W2

CERT. #: A8616800-002-A  
INVOICE #: I8616800  
DATE : 2-SEP-86  
P.O. #: NONE  
ATLIN

Semi quantitative multi element ICP analysis

Nitric-Aqua-Regia digestion of 0.5 gm of material followed by ICP analysis. Since this digestion is incomplete for many minerals, values reported for Al, Sb, Ba, Be, Ca, Cr, Ga, La, Mg, K, Na, Sr, Ti, Ti, W and V can only be considered as semi-quantitative.

### COMMENTS :

CC: LINDA DANDY

| Sample description | Al   | Ag  | As  | Ba      | Be  | Bi    | Ca   | Cd  | Co  | Cr  | Cu    | Fe  | Ga    | K   | La   | Mg  | Mn  | Mo    | Na  | Ni  | P   | Pt  | Sb  | Sr    | Ti  | Tl  | U   | V   | W   | Zn |    |
|--------------------|------|-----|-----|---------|-----|-------|------|-----|-----|-----|-------|-----|-------|-----|------|-----|-----|-------|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|----|----|
|                    | %    | ppm | ppm | ppm     | ppm | ppm   | %    | ppm | ppm | ppm | ppm   | %   | ppm   | %   | ppm  | %   | ppm | %     | ppm | ppm | ppm | ppm | ppm | ppm   | ppm | ppm | ppm | ppm | ppm |    |    |
| 38979              | 0.41 | 1.0 | 30  | 20 <0.5 | 4   | 8.24  | 5.5  | 7   | 41  | 25  | 2.28  | 30  | 0.09  | <10 | 3.52 | 461 | <1  | <0.01 | 7   | 230 | 28  | 10  | 129 | <0.01 | <10 | <10 | 22  | 50  | 354 | -- | -- |
| 38980              | 0.19 | 0.4 | 40  | 10 <0.5 | <2  | 14.45 | 0.5  | 8   | 39  | 19  | 3.93  | 40  | 0.02  | <10 | 5.94 | 999 | <1  | <0.01 | 1   | 110 | 12  | 20  | 245 | <0.01 | <10 | <10 | 9   | 20  | 84  | -- | -- |
| 38981              | 0.18 | 1.2 | 20  | 50 <0.5 | <2  | 0.46  | 3.0  | 2   | 19  | 24  | 1.15  | <10 | 0.06  | <10 | 0.19 | 271 | 1   | <0.01 | 14  | 120 | 436 | <10 | 12  | <0.01 | <10 | <10 | 3   | 20  | 322 | -- | -- |
| 38982              | 0.42 | 0.8 | 10  | 30 <0.5 | 3   | 0.26  | 2.0  | 9   | 34  | 64  | 1.91  | <10 | 0.08  | <10 | 0.51 | 248 | 9   | 0.02  | 54  | 190 | 154 | <10 | 5   | 0.02  | <10 | <10 | 97  | 10  | 344 | -- | -- |
| 38983              | 1.15 | 0.4 | 30  | 80 <0.5 | 3   | 0.48  | <0.5 | 21  | 69  | 461 | 3.99  | <10 | 0.16  | 10  | 0.86 | 377 | 4   | 0.04  | 124 | 730 | 54  | <10 | 24  | 0.08  | <10 | <10 | 51  | <10 | 90  | -- | -- |
| 38984              | 0.19 | 0.2 | 90  | 20 <0.5 | <2  | 0.13  | <0.5 | 7   | 38  | 41  | 35.54 | 10  | <0.01 | <10 | 0.18 | 103 | 3   | 0.01  | 25  | 150 | 40  | 20  | 4   | 0.01  | <10 | <1  | <10 | 126 | --  | -- |    |

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## CERTIFICATE OF ANALYSIS

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V6C 2W2

CERT. #: A8617204-001-A  
INVOICE #: I8617204  
DATE : 9-SEP-86  
P.O. #: NONE  
P.G.M./MCKEE

### Semi quantitative multi element ICP analysis

Nitric-Aqua-Regia digestion of 0.5 gm of material followed by ICP analysis. Since this digestion is incomplete for many minerals, values reported for Al, Sb, Ba, Be, Ca, Cr, Ga, La, Mg, K, Na, Sr, Ti, Ti, W and V can only be considered as semi-quantitative.

### COMMENTS :

CC: LINDA DANDY

| Sample description | Al   | Ag  | As  | Ba       | Be  | Bi        | Ca   | Cd   | Co   | Cr   | Cu       | Fe       | Ga   | K    | La   | Mg    | Mn    | Mo    | Na   | Ni   | P         | Pb        | Se       | Sr  | Tl  | U   | V   | W   | Zn |    |
|--------------------|------|-----|-----|----------|-----|-----------|------|------|------|------|----------|----------|------|------|------|-------|-------|-------|------|------|-----------|-----------|----------|-----|-----|-----|-----|-----|----|----|
|                    | %    | ppm | ppm | ppm      | ppm | ppm       | %    | ppm  | ppm  | ppm  | ppm      | %        | ppm  | %    | ppm  | %     | ppm   | %     | ppm  | ppm  | ppm       | ppm       | ppm      | ppm | ppm | ppm | ppm | ppm |    |    |
| 38532              | 1.37 | 0.4 | 20  | 140 <0.5 | 4   | 4.15 <0.5 | 16   | 38   | 60   | 3.60 | 20       | 0.11     | <10  | 1.75 | 740  | <1    | 0.03  | 30    | 690  | 36   | <10       | 33 <0.01  | <10      | <10 | 69  | <10 | 84  | --  | -- |    |
| 38533              | 1.55 | 0.6 | 10  | 50 <0.5  | 2   | 1.96 <0.5 | 15   | 43   | 64   | 3.67 | 20       | 0.10     | <10  | 1.35 | 670  | <1    | 0.07  | 27    | 650  | 18   | <10       | 23 <0.01  | <10      | <10 | 93  | <10 | 88  | --  | -- |    |
| 38534              | 1.39 | 0.4 | 20  | 100 <0.5 | 4   | 3.51 <0.5 | 15   | 30   | 65   | 3.65 | 20       | 0.18     | <10  | 1.75 | 830  | 1     | 0.02  | 28    | 810  | 28   | <10       | 37 <0.01  | <10      | <10 | 54  | <10 | 90  | --  | -- |    |
| 38535              | 1.90 | 0.4 | 10  | 90 <0.5  | 2   | 1.41 <0.5 | 18   | 34   | 73   | 4.12 | 10       | 0.20     | 10   | 1.48 | 777  | 1     | 0.05  | 46    | 730  | 20   | <10       | 16 <0.01  | <10      | <10 | 78  | <10 | 106 | --  | -- |    |
| 38536              | 1.58 | 0.4 | 20  | 100 <0.5 | 2   | 2.80 <0.5 | 15   | 29   | 80   | 3.15 | 20       | 0.20     | <10  | 1.37 | 651  | <1    | 0.02  | 35    | 480  | 26   | <10       | 22 <0.01  | <10      | <10 | 47  | <10 | 86  | --  | -- |    |
| 38537              | 1.26 | 0.6 | 10  | 110 <0.5 | 4   | 2.23 <0.5 | 18   | 40   | 73   | 4.03 | 20       | 0.18     | <10  | 1.52 | 770  | 1     | 0.07  | 45    | 650  | 20   | <10       | 38 <0.01  | <10      | <10 | 77  | <10 | 98  | --  | -- |    |
| 38538              | 1.31 | 0.2 | 10  | 80 <0.5  | <2  | 1.69 <0.5 | 16   | 34   | 73   | 3.86 | 10       | 0.12     | <10  | 1.36 | 703  | 1     | 0.06  | 39    | 580  | 18   | <10       | 27 <0.01  | <10      | <10 | 76  | <10 | 100 | --  | -- |    |
| 38539              | 0.62 | 0.4 | 20  | 50 <0.5  | <2  | 13.53     | 0.5  | 15   | 118  | 39   | 2.20     | 40       | 0.03 | <10  | 5.65 | 662   | 1     | <0.01 | 80   | 320  | 12        | 10        | 72 <0.01 | <10 | <10 | 35  | <10 | 38  | -- | -- |
| 38540              | 0.99 | 0.4 | 20  | 90 <0.5  | 6   | 4.58 <0.5 | 19   | 119  | 54   | 3.30 | 20       | 0.05     | <10  | 2.51 | 738  | 1     | 0.02  | 105   | 540  | 24   | <10       | 66 <0.01  | <10      | <10 | 63  | <10 | 74  | --  | -- |    |
| 38541              | 1.07 | 0.4 | 20  | 20 <0.5  | 4   | 3.84      | 0.5  | 14   | 51   | 64   | 2.76     | 20       | 0.05 | <10  | 2.14 | 527   | 9     | <0.01 | 52   | 1120 | 22        | <10       | 55 <0.01 | <10 | <10 | 68  | <10 | 106 | -- | -- |
| 38542              | 1.84 | 0.4 | 10  | 20 <0.5  | <2  | 6.75      | 0.5  | 44   | 667  | 33   | 3.51     | 30 <0.01 | <10  | 6.89 | 827  | 2     | <0.01 | 564   | 410  | 2    | 10        | 146 <0.01 | <10      | <10 | 73  | <10 | 74  | --  | -- |    |
| 38543              | 1.78 | 0.4 | <10 | 10 <0.5  | <2  | 4.50      | 0.5  | 58   | 928  | 40   | 3.80     | 20 <0.01 | <10  | 7.93 | 648  | <1    | <0.01 | 884   | 410  | <2   | 10        | 109 <0.01 | <10      | <10 | 58  | <10 | 50  | --  | -- |    |
| 38544              | 1.98 | 0.4 | 10  | 20 <0.5  | <2  | 5.22      | 0.5  | 52   | 843  | 60   | 3.99     | 20 <0.01 | <10  | 7.10 | 814  | <1    | <0.01 | 698   | 430  | <2   | 10        | 110 <0.01 | <10      | <10 | 64  | <10 | 70  | --  | -- |    |
| 38545              | 2.52 | 0.4 | <10 | 10 <0.5  | <2  | 3.97      | 0.5  | 48   | 1073 | 28   | 3.70     | 20 <0.01 | <10  | 7.12 | 689  | <1    | <0.01 | 590   | 400  | <2   | 10        | 97 <0.01  | <10      | <10 | 65  | <10 | 48  | --  | -- |    |
| 38546              | 1.19 | 0.2 | 10  | 10 <0.5  | 2   | 2.62 <0.5 | 30   | 504  | 32   | 2.21 | 20 <0.01 | <10      | 3.78 | 656  | <1   | <0.01 | 435   | 90    | 14   | <10  | 121 <0.01 | <10       | <10      | 23  | <10 | 30  | --  | --  |    |    |
| 38547              | 3.10 | 0.2 | <10 | <10 <0.5 | <2  | 2.35      | 0.5  | 49   | 1028 | 19   | 3.78     | 20 <0.01 | <10  | 7.03 | 697  | 2     | <0.01 | 511   | 270  | <2   | <10       | 93 <0.01  | <10      | <10 | 89  | <10 | 38  | --  | -- |    |
| 38548              | 1.72 | 0.2 | 20  | <10 <0.5 | <2  | 2.34      | <0.5 | 40   | 984  | 25   | 2.63     | 10 <0.01 | <10  | 4.47 | 780  | 8     | <0.01 | 432   | 240  | 14   | <10       | 81 <0.01  | <10      | <10 | 53  | <10 | 32  | --  | -- |    |
| 38549              | 3.20 | 0.2 | <10 | 140 <0.5 | <2  | 4.25 <0.5 | 29   | 156  | 46   | 5.57 | 30 <0.85 | <10      | 5.04 | 931  | <1   | <0.01 | 81    | 1430  | 4    | 10   | 75 0.13   | <10       | <10      | 116 | <10 | 92  | --  | --  |    |    |
| 38550              | 3.01 | 0.2 | <10 | 50 <0.5  | <2  | 6.73      | 0.5  | 32   | 366  | 40   | 4.48     | 30 <0.20 | <10  | 6.51 | 1178 | <1    | <0.01 | 239   | 1010 | <2   | 10        | 123 0.04  | <10      | <10 | 96  | <10 | 72  | --  | -- |    |
| 38551              | 3.28 | 0.2 | <10 | 30 <0.5  | <2  | 5.12 <0.5 | 50   | 1038 | 32   | 5.06 | 30 <0.01 | <10      | 6.26 | 1166 | <1   | <0.01 | 587   | 1000  | <2   | 10   | 91 0.01   | <10       | <10      | 81  | <10 | 86  | --  | --  |    |    |
| 38552              | 2.69 | 0.2 | <10 | 420 <0.5 | <2  | 2.51 <0.5 | 38   | 79   | 63   | 9.28 | 10       | 2.12     | 10   | 2.10 | 766  | <1    | 0.02  | 67    | 2780 | 42   | <10       | 29 0.66   | <10      | <10 | 205 | <10 | 194 | --  | -- |    |
| 38553              | 3.77 | 0.2 | 10  | 230 <0.5 | <2  | 4.21 <0.5 | 44   | 228  | 66   | 7.97 | 10       | 1.30     | <10  | 2.78 | 869  | <1    | 0.06  | 159   | 2180 | 18   | <10       | 30 0.66   | <10      | <10 | 153 | <10 | 160 | --  | -- |    |
| 38554              | 3.39 | 0.2 | 10  | 190 <0.5 | <2  | 5.43 <0.5 | 38   | 158  | 65   | 7.20 | 20       | 1.00     | <10  | 2.47 | 1076 | <1    | 0.04  | 82    | 1940 | 10   | <10       | 36 0.57   | <10      | <10 | 131 | <10 | 123 | --  | -- |    |
| 38555              | 2.72 |     |     |          |     |           |      |      |      |      |          |          |      |      |      |       |       |       |      |      |           |           |          |     |     |     |     |     |    |    |



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## CERTIFICATE OF ANALYSIS

TO : MARK MANAGEMENT LIMITED  
1900 - 999 W. HASTINGS ST.  
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VGC 2W2

CERT. #: A8617204-002-A  
INVOICE #: I8617204  
DATE : 9-SEP-86  
P.O. #: NONE  
P.G.M./MCKEE

### Semi quantitative multi element ICP analysis

Nitric-Aqua-Regia digestion of 0.5 gm of material followed by ICP analysis. Since this digestion is incomplete for many minerals, values reported for Al, Sb, Ba, Be, Ca, Cr, Ga, La, Mg, K, Na, Sr, Tl, Ti, W and V can only be considered as semi-quantitative.

COMMENTS:  
CC: LINDA DANDY

| Sample description | Al % | Ag ppm | As ppm | Ba ppm | Be ppm | Bi ppm | Ca %  | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | K %   | La ppm | Mg % | Mn ppm | Mo ppm | Na %  | Ni ppm | P ppm | Pb ppm | Sb ppm | Sr ppm | Ti %  | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |    |    |
|--------------------|------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|------|--------|-------|--------|------|--------|--------|-------|--------|-------|--------|--------|--------|-------|--------|-------|-------|-------|--------|----|----|
| 38994              | 1.19 | 0.6    | <10    | 100    | <0.5   | <2     | 0.16  | <0.5   | 8      | 26     | 92     | 2.26 | <10    | 0.43  | 10     | 0.59 | 328    | <1     | 0.01  | 24     | 250   | 14     | <10    | 4      | 0.02  | <10    | <10   | 21    | <10   | 70     | -- | -- |
| 38995              | 1.22 | 0.2    | <10    | 100    | <0.5   | <2     | 0.26  | <0.5   | 8      | 29     | 60     | 2.27 | <10    | 0.47  | 10     | 0.60 | 290    | 1      | 0.02  | 23     | 240   | 14     | <10    | 5      | 0.02  | <10    | <10   | 27    | <10   | 62     | -- | -- |
| 38996              | 1.80 | 0.2    | 10     | 80     | <0.5   | <2     | 0.88  | <0.5   | 14     | 49     | 67     | 3.28 | 10     | 0.45  | 10     | 1.12 | 557    | 1      | 0.05  | 28     | 460   | 16     | <10    | 12     | 0.03  | <10    | <10   | 71    | <10   | 88     | -- | -- |
| 38997              | 2.43 | 0.4    | 10     | 50     | <0.5   | <2     | 0.90  | <0.5   | 18     | 57     | 63     | 4.58 | 10     | 0.29  | 10     | 1.81 | 799    | <1     | 0.08  | 25     | 550   | 18     | <10    | 10     | 0.03  | <10    | <10   | 124   | <10   | 120    | -- | -- |
| 38998              | 0.49 | 0.2    | 20     | 80     | <0.5   | 2      | 2.97  | <0.5   | 10     | 25     | 67     | 2.42 | 10     | 0.20  | <10    | 1.25 | 1018   | 1      | 0.01  | 27     | 270   | 16     | <10    | 43     | <0.01 | <10    | <10   | 23    | <10   | 180    | -- | -- |
| 38999              | 0.18 | 0.4    | 30     | 30     | <0.5   | <2     | 10.65 | 1.0    | 19     | 30     | 47     | 3.55 | 40     | 0.05  | <10    | 4.54 | 2548   | 1      | <0.01 | 28     | 250   | 16     | 10     | 150    | <0.01 | <10    | <10   | 26    | <10   | 240    | -- | -- |
| 39000              | 2.63 | 0.4    | <10    | 10     | <0.5   | <2     | 3.83  | 0.5    | 48     | 1038   | 42     | 4.09 | 20     | <0.01 | <10    | 7.36 | 979    | <1     | <0.01 | 569    | 360   | <2     | 10     | 93     | <0.01 | <10    | <10   | 75    | <10   | 66     | -- | -- |

SYSTEMS BUSINESS FORMS LIMITED VANCOUVER TR2005127

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Certified by .....

Hart Bichler

V03 rev. 11/85



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Phone: (604) 984-0221  
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Semi quantitative multi element ICP analysis

Nitric-Aqua-Regia digestion of 0.5 gm of material followed by ICP analysis. Since this digestion is incomplete for many minerals, values reported for Al, Sb, Ba, Be, Ca, Cr, Ga, La, Mg, K, Na, Sr, Ti, Ti, W and V can only be considered as semi-quantitative.

COMMENTS:

ATTN: ART TROUP CC: LINDA DANDY

CERTIFICATE OF ANALYSIS

TO : MARK MANAGEMENT LIMITED  
1900 - 999 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6C 2W2

CERT. #: A9617515-001-A  
INVOICE #: 19617515  
DATE: 19-SEP-86  
P.O. #: NONE  
ATLIN

SYSTEMS BUSINESS FORMS LIMITED VANCOUVER TR0005327

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| Sample description | Al   | Ag  | As  | Ba  | Be   | Bi | Ca   | Cd      | Co  | Cr   | Cu  | Fe   | Ga       | K  | La   | Mg   | Mn  | Mo    | Na   | Ni   | P   | Pb  | Si  | Sr   | Ti  | U   | V   | W   | Zn |
|--------------------|------|-----|-----|-----|------|----|------|---------|-----|------|-----|------|----------|----|------|------|-----|-------|------|------|-----|-----|-----|------|-----|-----|-----|-----|----|
|                    | %    | ppm | ppm | ppm | ppm  | %  | %    | ppm     | ppm | ppm  | ppm | %    | ppm      | %  | ppm  | %    | ppm | %     | ppm  | ppm  | ppm | ppm | ppm | ppm  | ppm | ppm | ppm | ppm |    |
| 38563 F            | 2.55 | 0.2 | <10 | 50  | <0.5 | <2 | 0.34 | <0.5    | 41  | 256  | 93  | 4.18 | 10 <0.01 | 10 | 2.09 | 688  | <1  | 0.01  | 183  | 1120 | 10  | <10 | 8   | 0.03 | <10 | 125 | <10 | 102 | -- |
| 38564 F            | 4.64 | 0.4 | 30  | 40  | <0.5 | <2 | 0.30 | 0.5     | 151 | 2339 | 17  | 4.98 | 10 <0.01 | 10 | 6.11 | 911  | <1  | <0.01 | 1506 | 790  | 6   | <10 | 8   | 0.02 | <10 | 110 | <10 | 138 | -- |
| 38565 F            | 0.81 | 0.2 | 10  | 40  | <0.5 | <2 | 0.06 | <0.5    | 9   | 81   | 30  | 1.72 | 10 <0.01 | 10 | 0.04 | 347  | <1  | 0.02  | 79   | 100  | 16  | <10 | 3   | 0.11 | <10 | 110 | <10 | 44  | -- |
| 38566 F            | 3.64 | 0.4 | <10 | 60  | <0.5 | <2 | 0.35 | 0.5     | 54  | 853  | 108 | 4.62 | 10 <0.01 | 10 | 4.05 | 959  | <1  | <0.01 | 604  | 700  | 12  | <10 | 9   | 0.03 | <10 | 110 | <10 | 52  | -- |
| 38567 F            | 3.22 | 0.4 | <10 | 70  | <0.5 | <2 | 0.27 | 0.5     | 46  | 410  | 92  | 5.49 | 10 <0.01 | 10 | 3.85 | 944  | <1  | 0.02  | 315  | 550  | 10  | <10 | 7   | 0.05 | <10 | 110 | <10 | 82  | -- |
| 38568 F            | 3.89 | 0.4 | <10 | 50  | <0.5 | <2 | 0.52 | 0.5     | 48  | 831  | 44  | 4.76 | 10 0.10  | 10 | 6.11 | 818  | <1  | 0.01  | 545  | 680  | 20  | <10 | 8   | 0.09 | <10 | 110 | <10 | 78  | -- |
| 38569 F            | 3.91 | 0.4 | <10 | 60  | <0.5 | <2 | 0.44 | 0.5     | 32  | 250  | 101 | 5.94 | 10 0.32  | 20 | 5.13 | 1112 | <1  | <0.01 | 191  | 1120 | 10  | <10 | 11  | 0.07 | <10 | 110 | <10 | 90  | -- |
| 38570 F            | 2.49 | 0.4 | <10 | 20  | <0.5 | <2 | 0.37 | 0.5     | 33  | 627  | 27  | 3.54 | 10 0.05  | 10 | 3.94 | 605  | <1  | <0.01 | 440  | 580  | 8   | <10 | 7   | 0.06 | <10 | 110 | <10 | 58  | -- |
| 38571 F            | 3.28 | 0.4 | <10 | 90  | <0.5 | <2 | 0.96 | <0.5    | 35  | 272  | 72  | 7.01 | 10 0.16  | 10 | 4.25 | 1140 | <1  | 0.02  | 312  | 2420 | 10  | <10 | 24  | 0.25 | <10 | 110 | <10 | 120 | -- |
| 38572 F            | 3.72 | 0.6 | <10 | 30  | <0.5 | <2 | 0.47 | 1.0     | 54  | 1127 | 103 | 5.26 | 10 <0.01 | 10 | 5.56 | 919  | <1  | <0.01 | 634  | 470  | 4   | <10 | 6   | 0.12 | <10 | 110 | <10 | 62  | -- |
| 38573 F            | 1.62 | 0.2 | <10 | 30  | <0.5 | <2 | 0.49 | 0.5     | 48  | 1181 | 45  | 4.13 | 10 <0.01 | 10 | 5.55 | 700  | <1  | <0.01 | 691  | 440  | 6   | <10 | 6   | 0.13 | <10 | 110 | <10 | 52  | -- |
| 38574 F            | 3.24 | 0.2 | <10 | 20  | <0.5 | <2 | 0.57 | 0.5     | 52  | 1155 | 56  | 4.34 | 10 <0.01 | 10 | 6.05 | 695  | <1  | <0.01 | 742  | 470  | 10  | <10 | 6   | 0.18 | <10 | 110 | <10 | 64  | -- |
| 38575 F            | 4.06 | 0.4 | <10 | 40  | <0.5 | <2 | 0.65 | 1.0     | 52  | 819  | 250 | 5.03 | 10 <0.01 | 10 | 6.46 | 738  | <1  | 0.01  | 607  | 750  | 2   | <10 | 8   | 0.20 | <10 | 110 | <10 | 80  | -- |
| 38576 F            | 3.15 | 0.2 | 10  | 90  | <0.5 | <2 | 0.27 | <0.5    | 43  | 508  | 72  | 2.74 | 10 0.18  | 10 | 2.42 | 426  | <1  | 0.03  | 144  | 510  | 6   | <10 | 8   | 0.04 | <10 | 110 | <10 | 60  | -- |
| 38577 F            | 3.43 | 0.4 | <10 | 110 | <0.5 | <2 | 0.69 | <0.5    | 46  | 591  | 61  | 5.02 | 10 0.03  | 10 | 4.22 | 885  | <1  | 0.04  | 473  | 760  | 2   | <10 | 11  | 0.15 | <10 | 110 | <10 | 82  | -- |
| 38578 F            | 3.34 | 0.2 | <10 | 60  | <0.5 | <2 | 0.38 | <0.5    | 42  | 576  | 47  | 4.01 | 10 0.10  | 10 | 3.73 | 594  | <1  | 0.02  | 254  | 610  | 2   | <10 | 6   | 0.04 | <10 | 110 | <10 | 68  | -- |
| 38579 F            | 3.54 | 0.4 | 10  | 50  | <0.5 | <2 | 0.37 | <0.5    | 51  | 750  | 42  | 3.95 | 10 0.04  | 10 | 4.17 | 537  | <1  | 0.04  | 289  | 550  | 3   | <10 | 6   | 0.08 | <10 | 120 | <10 | 66  | -- |
| 38580 F            | 3.04 | 0.2 | 10  | 50  | <0.5 | <2 | 0.44 | <0.5    | 39  | 525  | 45  | 3.62 | 10 0.06  | 10 | 3.55 | 535  | <1  | 0.04  | 250  | 630  | 4   | <10 | 7   | 0.08 | <10 | 110 | <10 | 62  | -- |
| 38581 F            | 3.30 | 0.2 | <10 | 50  | <0.5 | <2 | 0.60 | <0.5    | 41  | 549  | 53  | 4.86 | 10 0.08  | 10 | 3.79 | 928  | <1  | 0.03  | 250  | 670  | 8   | <10 | 10  | 0.04 | <10 | 110 | <10 | 70  | -- |
| 38582 F            | 2.71 | 0.4 | <10 | 70  | <0.5 | <2 | 0.42 | <0.5    | 40  | 416  | 59  | 3.62 | 10 0.12  | 10 | 3.11 | 624  | <1  | 0.05  | 256  | 510  | 6   | <10 | 6   | 0.09 | <10 | 110 | <10 | 80  | -- |
| 38583 F            | 2.62 | 0.4 | <10 | 70  | <0.5 | <2 | 0.30 | <0.5    | 51  | 335  | 35  | 3.09 | 10 0.27  | 10 | 3.07 | 637  | <1  | 0.04  | 171  | 450  | 6   | <10 | 5   | 0.07 | <10 | 110 | <10 | 72  | -- |
| 38584 F            | 2.94 | 0.4 | 20  | 70  | <0.5 | <2 | 1.81 | <0.5    | 31  | 492  | 31  | 5.46 | 20 0.24  | 10 | 4.90 | 1338 | <1  | 0.04  | 189  | 460  | 2   | <10 | 52  | 0.03 | <10 | 110 | <10 | 101 | -- |
| 38585 F            | 2.89 | 0.4 | <10 | 70  | <0.5 | <2 | 1.26 | 0.5     | 40  | 629  | 48  | 4.58 | 10 <0.01 | 10 | 4.97 | 1157 | <1  | 0.01  | 436  | 460  | 6   | <10 | 28  | 0.01 | <10 | 110 | <10 | 54  | -- |
| 38586 F            | 3.84 | 0.4 | <10 | 100 | <0.5 | <2 | 0.48 | 0.5</td |     |      |     |      |          |    |      |      |     |       |      |      |     |     |     |      |     |     |     |     |    |



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## CERTIFICATE OF ANALYSIS

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1900 - 999 W. HASTINGS ST.  
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V6C 2W2

CERT. #: A8617515-002-A  
INVOICE #: 10617515  
DATE: 19-SEP-86  
P.O. #: NONE  
ATLIN

Semi quantitative multi element ICP analysis

Nitric-Aqua-Regia digestion of 0.5 gm of material followed by ICP analysis. Since this digestion is incomplete for many minerals, values reported for Al, Sb, Ba, Be, Ca, Cr, Cs, La, Mg, K, Na, Sr, Ti, Ti, W and V can only be considered as semi-quantitative.

### COMMENTS:

ANALYST: ART TROUP QC: LINDA DANDY

| Sample description | Al   | Ag  | As  | Ba  | Be   | Bi  | Ca   | Co   | Cr  | Cu  | Fe | Ga   | K  | La    | Li  | Mg   | Mn   | Mo | Na    | Ni  | P    | Pb  | Sb  | Sr  | Tl    | Tl  | U   | V   | W   | Zn |    |
|--------------------|------|-----|-----|-----|------|-----|------|------|-----|-----|----|------|----|-------|-----|------|------|----|-------|-----|------|-----|-----|-----|-------|-----|-----|-----|-----|----|----|
|                    | %    | ppm | ppm | ppm | ppm  | ppm | %    | ppm  | ppm | ppm | %  | ppm  | %  | ppm   | %   | ppm  | ppm  | %  | ppm   | ppm | ppm  | ppm | ppm | ppm | ppm   | ppm | ppm | ppm | ppm |    |    |
| 38603 F            | 1.98 | 0.1 | <10 | 50  | <0.5 | <2  | 3.77 | <0.5 | 31  | 43  | 80 | 7.74 | 20 | 0.19  | <10 | 2.38 | 1256 | <1 | 0.01  | 64  | 1160 | 4   | <10 | 7   | 0.04  | <10 | 88  | <10 | 130 | -- | -- |
| 38604 F            | 2.79 | 0.2 | <10 | 40  | <0.5 | <2  | 0.83 | <0.5 | 29  | 44  | 64 | 8.55 | 20 | 0.27  | 20  | 1.71 | 1094 | <1 | 0.03  | 67  | 2010 | 2   | <10 | 12  | 0.05  | <10 | 111 | <10 | 160 | -- | -- |
| 38605 F            | 1.80 | 0.4 | <10 | 70  | <0.5 | <2  | 6.56 | 0.5  | 43  | 493 | 70 | 5.03 | 20 | <0.01 | <10 | 5.00 | 1098 | <1 | <0.01 | 377 | 1150 | 6   | <10 | 84  | <0.01 | <10 | 108 | <10 | 96  | -- | -- |
| 38606 F            | 1.49 | 0.2 | <10 | 30  | <0.5 | <2  | 3.17 | 0.5  | 53  | 959 | 55 | 3.55 | 10 | <0.01 | <10 | 5.24 | 616  | <1 | <0.01 | 998 | 320  | 6   | <10 | 55  | <0.01 | <10 | 59  | <10 | 42  | -- | -- |

SYSTEMS BUSINESS FORMS LIMITED VANCOUVER TR200504527

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Certified by *Hart Bickler*...



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Semi quantitative multi element ICP analysis

Nitric-Aqua-Regia digestion of 0.5 gm of material followed by ICP analysis. Since this digestion is incomplete for many minerals, values reported for Al, Sb, Ba, Be, Ca, Cr, Ga, La, Mg, K, Na, Sr, Ti, Ti, W and V can only be considered as semi-quantitative.

COMMENTS:  
ATLN: ART TROUP ✓CC: LINDA DANDY

## CERTIFICATE OF ANALYSIS

TO : MARK MANAGEMENT LIMITED  
1900 - 999 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6C 2W2

CERT. #: A8617885-001-A  
INVOICE #: I8617885  
DATE : 24-SEP-86  
P.O. #: NONE  
ATLIN

SYSTEMS BUSINESS FORMS LIMITED VANCOUVER TR005527

| Sample description | Al   | Ag  | As  | Ba  | Be   | Bi  | Ca   | Cd   | Co  | Cr   | Cu  | Fe   | Ga  | K     | La  | Mg   | Mn   | Mo | Na    | Ni   | P    | Pb  | Sb  | Sr  | Tl    | U   | V   | W   | Zn  |
|--------------------|------|-----|-----|-----|------|-----|------|------|-----|------|-----|------|-----|-------|-----|------|------|----|-------|------|------|-----|-----|-----|-------|-----|-----|-----|-----|
|                    | %    | ppm | ppm | ppm | ppm  | ppm | %    | ppm  | ppm | ppm  | ppm | %    | ppm | %     | ppm | %    | ppm  | %  | ppm   | ppm  | ppm  | ppm | ppm | ppm | ppm   | ppm | ppm | ppm |     |
| 38607 F            | 2.93 | 0.4 | <10 | 80  | <0.5 | <2  | 0.37 | <0.5 | 63  | 561  | 137 | 5.67 | <10 | 0.32  | 10  | 3.42 | 886  | 1  | 0.02  | 459  | 730  | 2   | <10 | 19  | 0.03  | <10 | 134 | <10 | 124 |
| 38608 F            | 2.70 | 0.6 | 10  | 60  | <0.5 | <2  | 0.53 | <0.5 | 58  | 585  | 126 | 5.41 | <10 | 0.05  | 10  | 3.39 | 891  | 1  | 0.02  | 522  | 1200 | 2   | 10  | 21  | 0.04  | <10 | 93  | <10 | 120 |
| 38609 F            | 3.61 | 0.6 | <10 | 180 | <0.5 | <2  | 0.68 | <0.5 | 77  | 976  | 81  | 5.17 | 10  | <0.01 | 20  | 4.60 | 921  | 1  | 0.04  | 755  | 1010 | 12  | 10  | 51  | 0.03  | <10 | 99  | <10 | 122 |
| 38610 F            | 3.52 | 1.6 | <10 | 150 | <0.5 | <2  | 0.53 | 1.0  | 99  | 1106 | 92  | 6.18 | 10  | <0.01 | 20  | 4.90 | 1051 | 2  | 0.01  | 1000 | 1120 | 4   | 10  | 25  | 0.04  | <10 | 100 | <10 | 136 |
| 38611 F            | 3.74 | 0.4 | <10 | 90  | <0.5 | <2  | 0.49 | 0.5  | 94  | 1428 | 105 | 5.09 | 10  | <0.01 | 20  | 4.88 | 915  | <1 | 0.11  | 1082 | 940  | 22  | <10 | 47  | 0.01  | <10 | 87  | <10 | 124 |
| 38612 F            | 3.82 | 0.2 | 10  | 80  | <0.5 | <2  | 0.87 | 0.5  | 147 | 1841 | 108 | 5.34 | 10  | <0.01 | 10  | 5.66 | 950  | <1 | 0.02  | 1604 | 810  | 2   | 10  | 32  | 0.02  | <10 | 99  | <10 | 132 |
| 38613 F            | 2.14 | 0.2 | <10 | 50  | <0.5 | <2  | 0.50 | <0.5 | 94  | 1026 | 66  | 3.00 | <10 | <0.01 | 10  | 3.26 | 516  | <1 | <0.01 | 1074 | 480  | 4   | <10 | 17  | 0.01  | <10 | 57  | <10 | 76  |
| 38614 F            | 3.68 | 0.4 | 10  | 80  | <0.5 | <2  | 1.15 | 0.5  | 153 | 1723 | 111 | 5.37 | 10  | <0.01 | 10  | 5.77 | 961  | <1 | 0.01  | 1687 | 860  | 2   | 10  | 32  | 0.02  | <10 | 99  | <10 | 152 |
| 38615 F            | 2.58 | 1.4 | 10  | 110 | <0.5 | <2  | 0.65 | 0.5  | 40  | 548  | 101 | 6.28 | 10  | 0.10  | 20  | 3.35 | 1165 | 3  | 0.01  | 359  | 1370 | 58  | 10  | 19  | 0.03  | <10 | 108 | <10 | 218 |
| 38616 F            | 2.64 | 1.4 | <10 | 90  | <0.5 | <2  | 0.82 | <0.5 | 46  | 876  | 107 | 5.37 | <10 | 0.08  | 10  | 4.57 | 1187 | <1 | 0.01  | 550  | 460  | 32  | <10 | 22  | 0.01  | <10 | 115 | <10 | 118 |
| 38617 F            | 1.98 | 0.8 | <10 | 60  | <0.5 | <2  | 1.94 | 0.5  | 44  | 910  | 52  | 3.18 | <10 | <0.01 | <10 | 4.65 | 766  | 1  | <0.01 | 697  | 530  | 26  | 10  | 98  | <0.01 | <10 | 71  | <10 | 98  |
| 38618 F            | 1.42 | 0.4 | 10  | 70  | <0.5 | <2  | 0.55 | 0.5  | 11  | 61   | 59  | 5.62 | <10 | 0.10  | 10  | 2.12 | 1517 | 13 | 0.02  | 80   | 1050 | 22  | <10 | 10  | 0.01  | <10 | 150 | <10 | 136 |
| 38619 F            | 2.17 | 0.8 | <10 | 20  | <0.5 | <2  | 0.20 | 0.5  | 47  | 714  | 70  | 3.17 | <10 | <0.01 | <10 | 3.24 | 499  | <1 | <0.01 | 460  | 410  | 16  | <10 | 8   | <0.01 | <10 | 71  | <10 | 68  |
| 38620 F            | 1.45 | 0.8 | 10  | 20  | <0.5 | <2  | 0.19 | <0.5 | 22  | 108  | 125 | 2.94 | <10 | <0.01 | 10  | 2.05 | 444  | 27 | <0.01 | 105  | 600  | 38  | <10 | 5   | <0.01 | <10 | 92  | <10 | 84  |
| 38621 F            | 2.77 | 0.4 | 10  | 70  | <0.5 | <2  | 0.59 | <0.5 | 63  | 861  | 104 | 5.28 | <10 | <0.01 | 10  | 3.28 | 932  | <1 | 0.01  | 560  | 730  | 14  | 10  | 20  | 0.01  | <10 | 114 | <10 | 104 |
| 38622 F            | 3.21 | 0.6 | 20  | 70  | <0.5 | <2  | 0.62 | <0.5 | 92  | 1338 | 126 | 4.76 | <10 | <0.01 | 10  | 3.66 | 789  | <1 | 0.01  | 919  | 650  | 20  | 10  | 18  | 0.02  | <10 | 117 | <10 | 128 |
| 38623 F            | 1.71 | 0.6 | <10 | 30  | <0.5 | <2  | 5.38 | 1.0  | 42  | 745  | 52  | 4.09 | 10  | <0.01 | <10 | 6.29 | 1054 | <1 | <0.01 | 536  | 480  | 10  | 10  | 107 | <0.01 | <10 | 53  | <10 | 68  |
| 38624 F            | 0.46 | 0.4 | <10 | 40  | <0.5 | <2  | 5.14 | 0.5  | 56  | 454  | 45  | 4.58 | 10  | 0.05  | <10 | 6.21 | 901  | 1  | <0.01 | 899  | 260  | 12  | 10  | 100 | <0.01 | <10 | 39  | <10 | 72  |
| 38625 F            | 0.91 | 0.4 | 10  | 200 | <0.5 | <2  | 3.14 | <0.5 | 27  | 55   | 46  | 6.87 | 10  | 0.24  | 10  | 2.61 | 1494 | <1 | 0.01  | 84   | 1850 | 8   | <10 | 93  | <0.01 | <10 | 72  | <10 | 148 |
| 38626 F            | 1.23 | 0.4 | 20  | 60  | <0.5 | <2  | 2.59 | <0.5 | 32  | 58   | 54  | 6.37 | 10  | 0.31  | 20  | 2.03 | 1251 | <1 | 0.04  | 73   | 2570 | 10  | <10 | 60  | 0.01  | <10 | 59  | <10 | 176 |
| 38627 F            | 0.79 | 0.4 | 50  | 30  | <0.5 | <2  | 4.66 | <0.5 | 29  | 60   | 56  | 5.54 | 10  | 0.17  | <10 | 2.31 | 1321 | 1  | 0.03  | 92   | 1600 | 18  | 10  | 109 | <0.01 | <10 | 49  | <10 | 118 |
| 38628 F            | 2.79 | 0.6 | 10  | 20  | <0.5 | <2  | 2.75 | <0.5 | 32  | 103  | 52  | 6.74 | 20  | 0.12  | 20  | 3.01 | 1541 | <1 | 0.04  | 68   | 2130 | 6   | 10  | 43  | 0.01  | <10 | 149 | <10 | 124 |
| 38629 F            | 2.02 | 0.4 | 20  | 30  | <0.5 | <2  | 3.53 | <0.5 | 36  | 96   | 63  | 7.21 | 20  | 0.22  | 10  | 2.44 | 1300 | <1 | 0.05  | 80   | 1980 | 9   | 10  | 60  | 0.01  | <10 | 112 | <10 | 134 |
| 38630 F            | 2.06 | 0.2 | 30  | 30  | <0.5 | <2  | 4.44 | <0.5 |     |      |     |      |     |       |     |      |      |    |       |      |      |     |     |     |       |     |     |     |     |



# Chemex Labs Ltd.

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## CERTIFICATE OF ANALYSIS

TO : MARK MANAGEMENT LIMITED  
1900 - 999 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6C 2W2

CERT. #: A8617885-002-A  
INVOICE #: I8617885  
DATE : 24-SEP-86  
P.O. #: NONE  
ATLIN

Semi quantitative multi element ICP analysis

Nitric-Aqua-Regia digestion of 0.5 gm of material followed by ICP analysis. Since this digestion is incomplete for many minerals, values reported for Al, Sr, Ba, Be, Ca, Cr, Ga, La, Mg, K, Na, Sr, Tl, Ti, W and V can only be considered as semi-quantitative.

### COMMENTS:

ATTN: ART TROUP CC: LINDA DANDY

| Sample description | Al % | Ag ppm | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | K %   | La ppm | Mg % | Mn ppm | Mo ppm | Na %  | Ni ppm | P ppm | Pb ppm | Sb ppm | Sr ppm | Ti %  | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |    |
|--------------------|------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|-------|--------|------|--------|--------|-------|--------|-------|--------|--------|--------|-------|--------|-------|-------|-------|--------|----|
| 38647 F            | 0.52 | 0.6    | <10    | 130    | <0.5   | <2     | 0.12 | <0.5   | 8      | 58     | 33     | 1.25 | <10    | <0.01 | <10    | 0.57 | 157    | 6      | <0.01 | 63     | 370   | 22     | <10    | 2      | <0.01 | <10    | <10   | 27    | <10   | 56     | -- |
| 38648 F            | 2.40 | 0.2    | <10    | 40     | <0.5   | 2      | 0.32 | <0.5   | 47     | 782    | 70     | 2.99 | <10    | <0.01 | 10     | 3.06 | 477    | <1     | <0.01 | 507    | 730   | 18     | <10    | 7      | 0.03  | <10    | <10   | 64    | <10   | 74     | -- |
| 38649 F            | 4.44 | 0.4    | <10    | 60     | <0.5   | <2     | 0.38 | <0.5   | 83     | 1042   | 118    | 4.90 | 10     | <0.01 | 10     | 5.29 | 722    | <1     | 0.01  | 855    | 930   | <2     | <10    | 10     | 0.03  | <10    | <10   | 132   | <10   | 106    | -- |
| 38650 F            | 4.04 | 0.4    | <10    | 50     | <0.5   | <2     | 0.43 | 0.5    | 103    | 1674   | 95     | 4.52 | 10     | <0.01 | 10     | 5.69 | 734    | <1     | <0.01 | 1131   | 960   | 2      | <10    | 14     | 0.02  | <10    | <10   | 89    | <10   | 120    | -- |
| 38712 F            | 4.29 | 0.4    | <10    | 40     | <0.5   | <2     | 0.36 | 0.5    | 92     | 1735   | 75     | 4.54 | 10     | <0.01 | 10     | 6.40 | 684    | <1     | <0.01 | 1148   | 820   | <2     | <10    | 12     | <0.01 | <10    | <10   | 76    | <10   | 116    | -- |
| 38713 F            | 3.87 | 0.4    | <10    | 90     | <0.5   | <2     | 0.25 | <0.5   | 52     | 256    | 106    | 7.81 | 10     | 0.60  | <10    | 3.92 | 1271   | <1     | 0.03  | 236    | 400   | 4      | <10    | 5      | 0.08  | <10    | <10   | 243   | <10   | 108    | -- |
| 38714 F            | 3.06 | 0.2    | <10    | 140    | <0.5   | <2     | 0.27 | <0.5   | 43     | 159    | 73     | 6.14 | 10     | 1.04  | <10    | 2.67 | 905    | <1     | 0.06  | 206    | 480   | 10     | <10    | 4      | 0.20  | <10    | <10   | 232   | <10   | 104    | -- |
| 38715 F            | 2.49 | 0.2    | <10    | 150    | <0.5   | <2     | 0.41 | <0.5   | 36     | 142    | 59     | 5.67 | 10     | 0.83  | <10    | 2.14 | 1041   | <1     | 0.10  | 304    | 500   | 10     | <10    | 5      | 0.28  | <10    | <10   | 193   | <10   | 116    | -- |
| 38716 F            | 3.57 | 0.2    | <10    | 110    | <0.5   | <2     | 0.58 | <0.5   | 43     | 431    | 106    | 5.62 | 10     | 0.35  | <10    | 4.57 | 1065   | <1     | 0.04  | 320    | 460   | 4      | <10    | 7      | 0.24  | <10    | <10   | 155   | <10   | 86     | -- |
| 38717 F            | 4.40 | 0.2    | <10    | 60     | <0.5   | <2     | 0.45 | 0.5    | 62     | 1051   | 107    | 5.65 | 10     | 0.16  | 10     | 6.11 | 983    | <1     | 0.01  | 721    | 640   | <2     | <10    | 10     | 0.06  | <10    | <10   | 130   | <10   | 100    | -- |
| 38718 F            | 0.15 | 0.2    | 30     | 10     | <0.5   | <2     | 8.34 | 0.5    | 47     | 333    | 20     | 2.84 | 20     | <0.01 | <10    | 9.11 | 1032   | <1     | <0.01 | 709    | <10   | <2     | 10     | 67     | <0.01 | <10    | <10   | 3     | 10    | 12     | -- |
| 38719 F            | 0.39 | 0.2    | <10    | 10     | <0.5   | <2     | 2.90 | 0.5    | 54     | 1269   | 39     | 3.42 | 10     | <0.01 | <10    | 6.62 | 849    | <1     | <0.01 | 858    | 20    | <2     | <10    | 13     | <0.01 | <10    | <10   | 14    | <10   | 14     | -- |
| 38720 F            | 0.68 | 1.6    | 20     | 40     | <0.5   | 2      | 2.18 | <0.5   | 17     | 65     | 91     | 1.61 | 10     | 0.08  | <10    | 1.14 | 250    | <1     | <0.01 | 70     | 100   | 36     | 10     | 5      | <0.01 | <10    | <10   | 14    | <10   | 54     | -- |
| 38721 F            | 0.11 | 1.2    | <10    | 10     | <0.5   | <2     | 0.20 | <0.5   | 2      | 29     | 19     | 1.12 | <10    | <0.01 | <10    | 0.13 | 199    | <1     | <0.01 | 23     | 50    | 16     | <10    | 3      | <0.01 | <10    | <10   | 3     | <10   | 46     | -- |
| 38722 F            | 0.17 | 0.6    | 10     | 20     | <0.5   | <2     | 0.72 | <0.5   | 7      | 53     | 38     | 1.77 | <10    | 0.03  | <10    | 0.21 | 360    | <1     | <0.01 | 34     | 190   | 16     | <10    | 20     | <0.01 | <10    | <10   | 5     | <10   | 42     | -- |

SYSTEMS BUSINESS FORMS LIMITED VANCOUVER TR2050527

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Certified by .. *Hart Barchler* ..

v03 rev 11/85



# Chemex Labs Ltd.

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Telex: 043-52597

Semi quantitative multi element ICP analysis

Nitric-Aqua-Regia digestion of 0.5 gm of material followed by ICP analysis. Since this digestion is incomplete for many minerals, values reported for Al, Sb, Ba, Be, Ca, Cr, Ga, La, Mg, K, Na, Sr, Tl, Ti, W and V can only be considered as semi-quantitative.

COMMENTS:  
ATTN: ART TROUP CC: LINDA DANDY

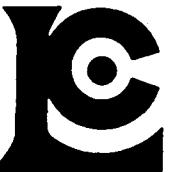
## CERTIFICATE OF ANALYSIS

TO : MARK MANAGEMENT LIMITED  
1900 - 999 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6C 2W2

CERT. #: A8617517-001-A  
INVOICE #: I8617517  
DATE : 17-SEP-86  
P.O. #: NONE  
ATLIN

SYSTEMS BUSINESS FORMS LIMITED VANCOUVER TR2505527

| Sample description | Al   | Ag  | As  | Ba  | Be   | Bi | Ca   | Cd   | Co  | Cr  | Cu  | Fe   | Ga  | K    | La  | Mg   | Mn   | Mo | Na    | Ni  | P    | Pb  | Sb  | Sr  | Tl    | U   | V   | W   | Zn  |     |    |    |
|--------------------|------|-----|-----|-----|------|----|------|------|-----|-----|-----|------|-----|------|-----|------|------|----|-------|-----|------|-----|-----|-----|-------|-----|-----|-----|-----|-----|----|----|
|                    | %    | ppm | ppm | ppm | ppm  | %  | ppm  | ppm  | ppm | ppm | ppm | %    | ppm | %    | ppm | ppm  | ppm  | %  | ppm   | ppm | ppm  | ppm | ppm | ppm | ppm   | ppm | ppm |     |     |     |    |    |
| 38701 F            | 0.86 | 0.4 | 10  | 410 | <0.5 | <2 | 0.14 | <0.5 | 8   | 103 | 48  | 3.73 | <10 | 0.11 | <10 | 0.11 | 465  | 5  | <0.01 | 75  | 630  | 4   | <10 | 58  | <0.01 | <10 | 55  | <10 | 54  | --  | -- |    |
| 38702 F            | 1.27 | 0.2 | 20  | 80  | <0.5 | <2 | 0.67 | <0.5 | 23  | 262 | 45  | 6.56 | <10 | 0.03 | 10  | 1.51 | 2022 | 1  | <0.01 | 178 | 340  | 14  | <10 | 7   | <0.01 | <10 | <10 | 88  | <10 | 66  | -- | -- |
| 38703 F            | 0.54 | 0.2 | <10 | 50  | <0.5 | <2 | 0.25 | <0.5 | 2   | 26  | 24  | 3.64 | <10 | 0.16 | 10  | 0.36 | 1343 | <1 | <0.01 | 16  | 170  | 8   | <10 | 2   | <0.01 | <10 | <10 | 50  | <10 | 36  | -- | -- |
| 38704 F            | 0.47 | 0.2 | 10  | 50  | <0.5 | <2 | 0.74 | <0.5 | 4   | 34  | 17  | 9.29 | <10 | 0.13 | 20  | 0.46 | 4127 | <1 | <0.01 | 25  | 360  | 8   | <10 | 1   | <0.01 | <10 | <10 | 83  | <10 | 58  | -- | -- |
| 38705 F            | 0.66 | 0.2 | 10  | 40  | <0.5 | <2 | 0.36 | <0.5 | 9   | 35  | 44  | 4.63 | <10 | 0.19 | 10  | 0.53 | 1631 | 4  | <0.01 | 41  | 480  | 8   | <10 | 3   | <0.01 | <10 | <10 | 52  | <10 | 62  | -- | -- |
| 38706 F            | 2.19 | 0.2 | 20  | 160 | <0.5 | <2 | 0.18 | <0.5 | 30  | 205 | 110 | 7.16 | <10 | 0.10 | 10  | 1.06 | 1082 | 3  | <0.01 | 126 | 640  | 8   | <10 | 12  | <0.01 | <10 | <10 | 126 | <10 | 106 | -- | -- |
| 38707 F            | 3.07 | 0.2 | 40  | 240 | <0.5 | <2 | 0.62 | <0.5 | 43  | 548 | 96  | 8.29 | <10 | 0.21 | 20  | 0.66 | 1498 | 8  | <0.01 | 264 | 2290 | 4   | <10 | 31  | <0.01 | <10 | <10 | 155 | <10 | 126 | -- | -- |
| 38708 F            | 2.23 | 0.2 | 30  | 120 | <0.5 | <2 | 0.34 | <0.5 | 38  | 214 | 128 | 8.75 | <10 | 0.06 | 10  | 1.55 | 2138 | 2  | <0.01 | 122 | 700  | 8   | <10 | 7   | <0.01 | <10 | <10 | 160 | <10 | 112 | -- | -- |
| 38709 F            | 2.22 | 0.4 | 20  | 890 | <0.5 | <2 | 0.22 | <0.5 | 24  | 269 | 49  | 5.22 | <10 | 0.18 | 10  | 1.71 | 1067 | 4  | <0.01 | 64  | 670  | 14  | <10 | 23  | 0.01  | <10 | <10 | 137 | <10 | 96  | -- | -- |
| 38710 F            | 4.24 | 0.2 | 20  | 210 | <0.5 | <2 | 0.41 | <0.5 | 34  | 560 | 59  | 4.71 | <10 | 0.12 | 10  | 3.30 | 687  | 2  | <0.01 | 132 | 1330 | 10  | <10 | 15  | 0.02  | <10 | <10 | 166 | <10 | 106 | -- | -- |
| 38711 F            | 3.49 | 1.2 | 30  | 230 | <0.5 | <2 | 0.47 | <0.5 | 42  | 201 | 127 | 8.96 | <10 | 0.06 | 10  | 2.97 | 2070 | <1 | 0.01  | 105 | 850  | 136 | <10 | 12  | 0.01  | <10 | <10 | 180 | <10 | 142 | -- | -- |



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## CERTIFICATE OF ANALYSIS

TO : MARK MANAGEMENT LIMITED  
1900 - 999 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6C 2W2

CERT. #: A8617886-001-A  
INVOICE #: I8617886  
DATE : 25-SEP-86  
P.O. #: NONE  
ATLIN

Semi quantitative multi element ICP analysis

Nitric-Aqua-Regia digestion of 0.5 gm of material followed by ICP analysis. Since this digestion is incomplete for many minerals, values reported for Al, Sb, Ba, Be, Ca, Cr, Ga, La, Mg, K, Na, Sr, Ti, Ti, W and V can only be considered as semi-quantitative.

### COMMENTS :

ATTN: ART TROUP CC: LINDA DANDY

| Sample description | Au ppb<br>EA+AA | Al % | Ag ppm | As ppm   | Ba ppm | Be ppm    | Bi ppm | Ca ppm | Cd ppm | Co ppm | Cr ppm    | Cu ppm | Fe % | Ga ppm | K %      | La ppm | Mg % | Mn ppm | Mo ppm | Na % | Ni ppm | P ppm | Pb ppm | Sb ppm | Sr ppm | Tl % | U ppm | V ppm | W ppm | Zn ppm |
|--------------------|-----------------|------|--------|----------|--------|-----------|--------|--------|--------|--------|-----------|--------|------|--------|----------|--------|------|--------|--------|------|--------|-------|--------|--------|--------|------|-------|-------|-------|--------|
| S4-01              | <5 1.71         | 0.2  | 10     | 50 <0.5  | 2      | 0.35 <0.5 | 57     | 463    | 189    | 4.50   | <10 <0.01 | 10     | 1.84 | 681    | <1       | 0.01   | 399  | 940    | 19     | <10  | 13     | 0.01  | <10    | 10     | 71     | 10   | 144   | --    |       |        |
| S4-02              | <5 2.20         | 0.8  | <10    | 80 <0.5  | <2     | 0.51 0.5  | 52     | 620    | 200    | 4.78   | <10 <0.01 | 10     | 2.26 | 885    | 1        | 0.03   | 371  | 940    | 16     | <10  | 19     | 0.03  | <10    | 10     | 87     | 10   | 138   | --    |       |        |
| S4-03              | <5 3.55         | 0.6  | <10    | 150 <0.5 | <2     | 0.54 <0.5 | 74     | 873    | 134    | 6.01   | <10 0.11  | 10     | 3.85 | 1101   | 2        | 0.03   | 593  | 1120   | 9      | <10  | 23     | 0.04  | <10    | 10     | 145    | 10   | 164   | --    |       |        |
| S4-04              | <5 3.58         | 0.2  | <10    | 80 <0.5  | <2     | 0.47 <0.5 | 91     | 1162   | 119    | 8.93   | <10 <0.01 | 10     | 4.93 | 1278   | <1       | 0.01   | 929  | 830    | 4      | <10  | 18     | 0.03  | <10    | 10     | 94     | 10   | 130   | --    |       |        |
| S4-05              | <5 3.22         | 0.2  | <10    | 80 <0.5  | <2     | 0.37 <0.5 | 126    | 1289   | 146    | 11.36  | <10 <0.01 | 10     | 4.58 | 1386   | <1 <0.01 | 1232   | 790  | 6      | <10    | 11   | 0.03   | <10   | 10     | 81     | <10    | 154  | --    |       |       |        |
| S4-06              | <5 3.91         | 0.2  | <10    | 80 <0.5  | <2     | 0.42 <0.5 | 119    | 1377   | 108    | 9.91   | <10 <0.01 | 10     | 5.41 | 1307   | <1 <0.01 | 1217   | 890  | 6      | <10    | 13   | 0.04   | <10   | 10     | 96     | <10    | 154  | --    |       |       |        |
| S4-07              | <5 3.73         | 0.2  | <10    | 80 <0.5  | <2     | 0.49 0.5  | 155    | 1341   | 189    | 8.78   | <10 <0.01 | 10     | 4.90 | 1184   | 1        | 0.01   | 1553 | 910    | 12     | <10  | 18     | 0.04  | <10    | 10     | 102    | <10  | 192   | --    |       |        |
| S4-08              | <5 3.07         | 0.2  | <10    | 100 <0.5 | <2     | 0.35 <0.5 | 121    | 1029   | 158    | 9.05   | <10 <0.01 | 10     | 4.01 | 1176   | 2 <0.01  | 1156   | 930  | 12     | <10    | 10   | 0.02   | <10   | 10     | 86     | <10    | 180  | --    |       |       |        |
| S4-09              | <5 3.03         | 0.2  | 10     | 100 <0.5 | <2     | 0.37 <0.5 | 130    | 1060   | 137    | 9.15   | <10 <0.01 | 10     | 3.80 | 1190   | 1        | 0.01   | 1256 | 880    | 12     | <10  | 12     | 0.04  | <10    | 10     | 90     | <10  | 182   | --    |       |        |
| S4-10              | <5 3.41         | 0.2  | <10    | 110 <0.5 | <2     | 0.38 0.5  | 117    | 1099   | 214    | 5.99   | <10 <0.01 | 10     | 4.24 | 947    | 2        | 0.01   | 1061 | 910    | 14     | <10  | 13     | 0.03  | <10    | 10     | 100    | <10  | 216   | --    |       |        |
| S4-11              | <5 3.39         | 0.6  | 10     | 80 <0.5  | <2     | 0.37 2.0  | 152    | 1279   | 132    | 4.96   | <10 <0.01 | 10     | 4.41 | 867    | <1       | 0.02   | 1413 | 890    | 10     | <10  | 12     | 0.03  | <10    | 10     | 99     | <10  | 178   | --    |       |        |
| S4-12              | <5 4.14         | 0.2  | <10    | 90 <0.5  | <2     | 0.52 0.5  | 130    | 1371   | 99     | 5.75   | 10 <0.01  | 20     | 5.34 | 1022   | <1       | 0.01   | 1264 | 940    | 4      | <10  | 16     | 0.04  | <10    | 10     | 114    | <10  | 164   | --    |       |        |
| S4-13              | <5 3.95         | 0.2  | <10    | 90 <0.5  | <2     | 0.39 0.5  | 189    | 1579   | 117    | 5.25   | 10 <0.01  | 10     | 5.24 | 981    | <1       | 0.01   | 1833 | 940    | 8      | <10  | 11     | 0.03  | <10    | 10     | 108    | <10  | 204   | --    |       |        |
| S4-14              | <5 4.13         | 0.2  | <10    | 100 <0.5 | <2     | 0.42 0.5  | 184    | 1673   | 122    | 5.60   | 10 <0.01  | 10     | 5.30 | 1029   | <1       | 0.01   | 1852 | 990    | 10     | <10  | 12     | 0.04  | <10    | 10     | 119    | <10  | 214   | --    |       |        |
| S4-15              | <5 3.66         | 0.2  | <10    | 60 <0.5  | <2     | 0.38 <0.5 | 104    | 1275   | 81     | 4.95   | 10 <0.01  | 10     | 4.68 | 931    | <1       | 0.01   | 1043 | 810    | 10     | <10  | 13     | 0.03  | <10    | 10     | 109    | <10  | 158   | --    |       |        |
| S4-16              | <5 4.56         | 0.2  | <10    | 70 <0.5  | <2     | 0.46 <0.5 | 113    | 1476   | 78     | 5.43   | 10 <0.01  | 10     | 5.54 | 1009   | <1       | 0.02   | 1138 | 870    | 6      | <10  | 16     | 0.04  | <10    | 10     | 128    | <10  | 156   | --    |       |        |
| S4-17              | <5 4.54         | 0.2  | <10    | 90 <0.5  | <2     | 0.40 0.5  | 115    | 1604   | 78     | 5.27   | 10 <0.01  | 10     | 5.76 | 963    | <1       | 0.02   | 1200 | 870    | 2      | <10  | 15     | 0.04  | <10    | 10     | 122    | <10  | 166   | --    |       |        |
| S4-18              | <5 4.40         | 0.2  | <10    | 80 <0.5  | <2     | 0.41 0.5  | 130    | 1588   | 81     | 5.39   | 10 <0.01  | 10     | 5.86 | 986    | <1       | 0.02   | 1332 | 910    | 4      | <10  | 16     | 0.03  | <10    | 10     | 113    | <10  | 156   | --    |       |        |
| S4-19              | <5 4.44         | 0.2  | 20     | 70 <0.5  | <2     | 0.76 <0.5 | 137    | 1689   | 92     | 5.31   | 10 <0.01  | 10     | 5.85 | 995    | <1       | 0.02   | 1435 | 800    | 2      | <10  | 39     | 0.03  | <10    | 10     | 115    | <10  | 152   | --    |       |        |
| S4-20              | <5 4.46         | 0.2  | <10    | 90 <0.5  | <2     | 0.66 0.5  | 163    | 1804   | 100    | 5.63   | 10 <0.01  | 20     | 5.98 | 1046   | <1       | 0.01   | 1710 | 870    | 2      | <10  | 26     | 0.04  | <10    | 10     | 118    | <10  | 158   | --    |       |        |
| S4-21              | <5 3.95         | 0.2  | 10     | 70 <0.5  | <2     | 0.46 0.5  | 142    | 1684   | 98     | 5.14   | 10 <0.01  | 10     | 5.36 | 948    | <1       | 0.01   | 1504 | 820    | 6      | <10  | 17     | 0.03  | <10    | 10     | 106    | <10  | 142   | --    |       |        |
| S4-22              | <5 3.82         | 0.2  | <10    | 60 <0.5  | <2     | 0.41 <0.5 | 100    | 1669   | 92     | 4.61   | 10 <0.01  | 10     | 5.07 | 820    | <1       | 0.02   | 1091 | 840    | 6      | <10  | 21     | 0.03  | <10    | 10     | 97     | <10  | 132   | --    |       |        |
| S4-23              | <5 3.95         | 0.2  | <10    | 60 <0.5  | <2     | 0.42 <0.5 | 118    | 1689   | 85     | 4.91   | <10 <0.01 | 10     | 5.18 | 888    | <1       | 0.02   | 1319 | 970    | 2      | <10  | 19     | 0.03  | <10    | 10     | 102    | <10  | 130   | --    |       |        |
| S4-24              | <5 4.26         | 0.2  | <10    | 70 <0.5  | <2     | 0.45 <0.5 | 126    | 1791   | 95     | 5.03   | <10 <0.01 | 10     | 5.62 | 919    | <1       | 0.02   | 1332 | 940    | 2      | <10  | 22     | 0.04  | <10    | 10     | 110    | <10  | 148   | --    |       |        |
| S4-25              | <5 4.19         | 0.2  | <10    | 60 <0.5  | <2     | 0         |        |        |        |        |           |        |      |        |          |        |      |        |        |      |        |       |        |        |        |      |       |       |       |        |



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Semi quantitative multi element ICP analysis

Nitric-Aqua-Regia digestion of 0.5 gm of material followed by ICP analysis. Since this digestion is incomplete for many minerals, values reported for Al, Si, Ba, Be, Ca, Cr, Ga, La, Mg, K, Na, Sr, Ti, Ti, W and V can only be considered as semi-quantitative.

COMMENTS:

ATTN: ART TROUP CC: LINDA DANDY

CERTIFICATE OF ANALYSIS

TO : MARK MANAGEMENT LIMITED  
1900 - 999 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6C 2W2

CERT. #: A8617904-001-A  
INVOICE #: I8617904  
DATE : 25-SEP-86  
P.O. #: NONE  
McKEE

SYSTEMS BUSINESS FORMS LIMITED VANCOUVER TRNS5527

| Sample description | Au ppb<br>FA+AA | Al %<br>ppm | Ag ppm | As ppm | Ba ppm   | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | K % | La ppm | Mg % | Mn ppm | Mo ppm | Na % | Ni ppm | P ppm | Pb ppm | Sb ppm | Sr ppm | Tl % | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |
|--------------------|-----------------|-------------|--------|--------|----------|--------|--------|------|--------|--------|--------|--------|------|--------|-----|--------|------|--------|--------|------|--------|-------|--------|--------|--------|------|--------|-------|-------|-------|--------|
| S-5-01             | 25              | 2.51        | 0.8    | 10     | 390 <0.5 | 2      | 0.74   | 0.5  | 37     | 619    | 93     | 6.61   | 10   | 0.02   | 20  | 2.55   | 1257 | 3      | 0.12   | 371  | 860    | 440   | <10    | 69     | 0.01   | <10  | <10    | 76    | <10   | 284   | --     |
| S-5-02             | <5              | 2.54        | 0.4    | 10     | 140 <0.5 | <2     | 0.69   | <0.5 | 36     | 789    | 132    | 15.13  | 10   | <0.01  | 10  | 2.96   | 1700 | 6      | 0.09   | 391  | 440    | 110   | <10    | 66     | <0.01  | <10  | <10    | 62    | <10   | 152   | --     |
| S-5-03             | <5              | 1.89        | 0.2    | 20     | 80 <0.5  | <2     | 2.46   | <0.5 | 53     | 1038   | 142    | 11.13  | 10   | <0.01  | <10 | 3.67   | 1441 | 5      | 0.02   | 702  | 360    | 8     | <10    | 148    | 0.01   | <10  | <10    | 52    | <10   | 128   | --     |
| S-5-04             | <5              | 1.71        | 1.2    | 10     | 60 <0.5  | <2     | 0.88   | 1.0  | 27     | 487    | 176    | 6.36   | 10   | 0.03   | 10  | 2.34   | 953  | 16     | 0.02   | 262  | 1270   | 10    | <10    | 54     | <0.01  | <10  | <10    | 144   | 60    | 220   | --     |
| S-5-05             | <5              | 2.05        | 0.4    | 20     | 50 <0.5  | <2     | 0.41   | <0.5 | 52     | 633    | 161    | 16.41  | 10   | <0.01  | 10  | 2.83   | 1519 | 13     | 0.01   | 466  | 710    | 10    | <10    | 21     | <0.01  | <10  | <10    | 88    | 30    | 122   | --     |
| S-5-06             | <5              | 3.13        | 1.0    | <10    | 60 <0.5  | <2     | 0.55   | 0.5  | 74     | 1130   | 119    | 9.42   | 10   | <0.01  | 10  | 4.15   | 1289 | 2      | <0.01  | 708  | 740    | <2    | <10    | 21     | <0.01  | <10  | <10    | 118   | <10   | 102   | --     |
| S-5-07             | <5              | 2.98        | 0.2    | <10    | 60 <0.5  | <2     | 0.91   | 0.5  | 87     | 1118   | 113    | 6.60   | 10   | <0.01  | 10  | 4.05   | 950  | <1     | 0.01   | 838  | 640    | 6     | <10    | 27     | 0.01   | <10  | <10    | 114   | <10   | 100   | --     |
| S-5-08             | <5              | 2.09        | 0.2    | <10    | 60 <0.5  | <2     | 3.28   | 0.5  | 60     | 756    | 86     | 5.30   | 10   | <0.01  | <10 | 4.98   | 958  | <1     | <0.01  | 765  | 500    | 4     | <10    | 69     | <0.01  | <10  | <10    | 84    | <10   | 84    | --     |
| S-5-09             | <5              | 2.68        | 0.2    | <10    | 140 <0.5 | <2     | 1.81   | <0.5 | 64     | 727    | 112    | 6.46   | 10   | 0.02   | 10  | 3.61   | 1076 | <1     | 0.01   | 525  | 1070   | 4     | <10    | 60     | 0.01   | <10  | <10    | 126   | <10   | 124   | --     |
| S-5-10             | <5              | 2.31        | 0.2    | <10    | 80 <0.5  | <2     | 1.60   | <0.5 | 55     | 594    | 102    | 5.54   | 10   | 0.17   | 10  | 2.88   | 985  | <1     | 0.03   | 413  | 1300   | <2    | <10    | 41     | 0.01   | <10  | <10    | 100   | <10   | 120   | --     |
| S-5-11             | <5              | 3.03        | 0.2    | <10    | 70 <0.5  | <2     | 0.94   | <0.5 | 66     | 815    | 112    | 5.34   | 10   | 0.04   | 10  | 3.35   | 865  | <1     | 0.02   | 541  | 1230   | 6     | <10    | 27     | 0.01   | <10  | <10    | 117   | <10   | 118   | --     |
| S-5-12             | <5              | 2.73        | 0.2    | <10    | 70 <0.5  | <2     | 1.00   | <0.5 | 78     | 838    | 132    | 4.62   | 10   | <0.01  | 10  | 3.15   | 775  | <1     | 0.01   | 635  | 700    | 4     | <10    | 29     | 0.01   | <10  | <10    | 115   | <10   | 106   | --     |
| S-5-13             | <5              | 2.61        | 0.2    | 10     | 70 <0.5  | <2     | 0.84   | <0.5 | 110    | 933    | 232    | 5.58   | 10   | <0.01  | 10  | 3.32   | 851  | <1     | 0.01   | 973  | 710    | 10    | <10    | 23     | 0.01   | <10  | <10    | 112   | <10   | 156   | --     |
| S-5-14             | <5              | 2.49        | 0.6    | 10     | 70 <0.5  | <2     | 0.74   | 0.5  | 89     | 852    | 196    | 5.24   | 10   | <0.01  | 10  | 3.20   | 789  | 1      | 0.01   | 772  | 670    | 4     | <10    | 21     | 0.01   | <10  | <10    | 103   | <10   | 136   | --     |
| S-5-15             | <5              | 2.71        | 0.2    | <10    | 70 <0.5  | <2     | 1.17   | 0.5  | 91     | 867    | 125    | 5.38   | 10   | <0.01  | 10  | 3.31   | 860  | <1     | 0.01   | 800  | 710    | 8     | <10    | 31     | 0.01   | <10  | <10    | 117   | <10   | 128   | --     |
| S-5-16             | <5              | 2.80        | 0.2    | <10    | 70 <0.5  | <2     | 0.96   | 0.5  | 91     | 894    | 169    | 5.37   | 10   | <0.01  | 10  | 3.32   | 865  | <1     | 0.01   | 762  | 720    | 2     | <10    | 30     | 0.02   | <10  | <10    | 117   | <10   | 124   | --     |
| S-5-17             | <5              | 2.59        | 0.2    | <10    | 80 <0.5  | <2     | 0.80   | <0.5 | 81     | 836    | 129    | 5.27   | 10   | <0.01  | 10  | 3.13   | 835  | <1     | 0.01   | 730  | 640    | 4     | <10    | 22     | 0.02   | <10  | <10    | 105   | <10   | 104   | --     |
| S-5-18             | <5              | 2.38        | 0.2    | 10     | 100 <0.5 | <2     | 0.77   | <0.5 | 66     | 786    | 159    | 5.44   | 10   | <0.01  | 10  | 3.03   | 834  | 3      | 0.01   | 576  | 670    | 6     | <10    | 22     | 0.03   | <10  | <10    | 98    | <10   | 114   | --     |
| S-5-19             | <5              | 2.67        | 0.2    | <10    | 90 <0.5  | <2     | 0.77   | <0.5 | 69     | 867    | 132    | 4.84   | 10   | <0.01  | 10  | 3.40   | 822  | <1     | 0.01   | 626  | 670    | 2     | <10    | 23     | 0.02   | <10  | <10    | 112   | <10   | 100   | --     |
| S-5-20             | <5              | 2.56        | 0.2    | <10    | 90 <0.5  | <2     | 0.67   | 0.5  | 67     | 869    | 126    | 4.66   | 10   | <0.01  | 10  | 3.22   | 753  | <1     | <0.01  | 603  | 590    | 6     | <10    | 20     | 0.02   | <10  | <10    | 106   | <10   | 90    | --     |
| S-5-21             | <5              | 3.06        | 0.2    | <10    | 70 <0.5  | <2     | 0.63   | <0.5 | 75     | 969    | 128    | 4.82   | 10   | <0.01  | 10  | 3.26   | 758  | <1     | 0.01   | 612  | 560    | 2     | <10    | 18     | 0.01   | <10  | <10    | 123   | <10   | 96    | --     |
| S-5-22             | <5              | 3.05        | 0.2    | <10    | 80 <0.5  | <2     | 0.60   | 0.5  | 72     | 964    | 133    | 4.80   | 10   | <0.01  | 10  | 3.28   | 773  | <1     | 0.01   | 607  | 600    | <2    | <10    | 17     | 0.01   | <10  | <10    | 121   | <10   | 102   | --     |
| S-5-23             | <5              | 2.77        | 0.2    | <10    | 90 <0.5  | <2     | 0.76   | 0.5  | 69     | 921    | 114    | 4.59   | 10   | <0.01  | 10  | 3.13   | 772  | <1     | 0.01   | 584  | 540    | <2    | <10    | 20     | 0.01   | <10  | <10    |       |       |       |        |



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## CERTIFICATE OF ANALYSIS

TO : MARK MANAGEMENT LIMITED  
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V6C 2W2

CERT. #: A8617904-002-A  
INVOICE #: 18617904  
DATE : 25-SEP-86  
P.O. #: NONE  
McKEE

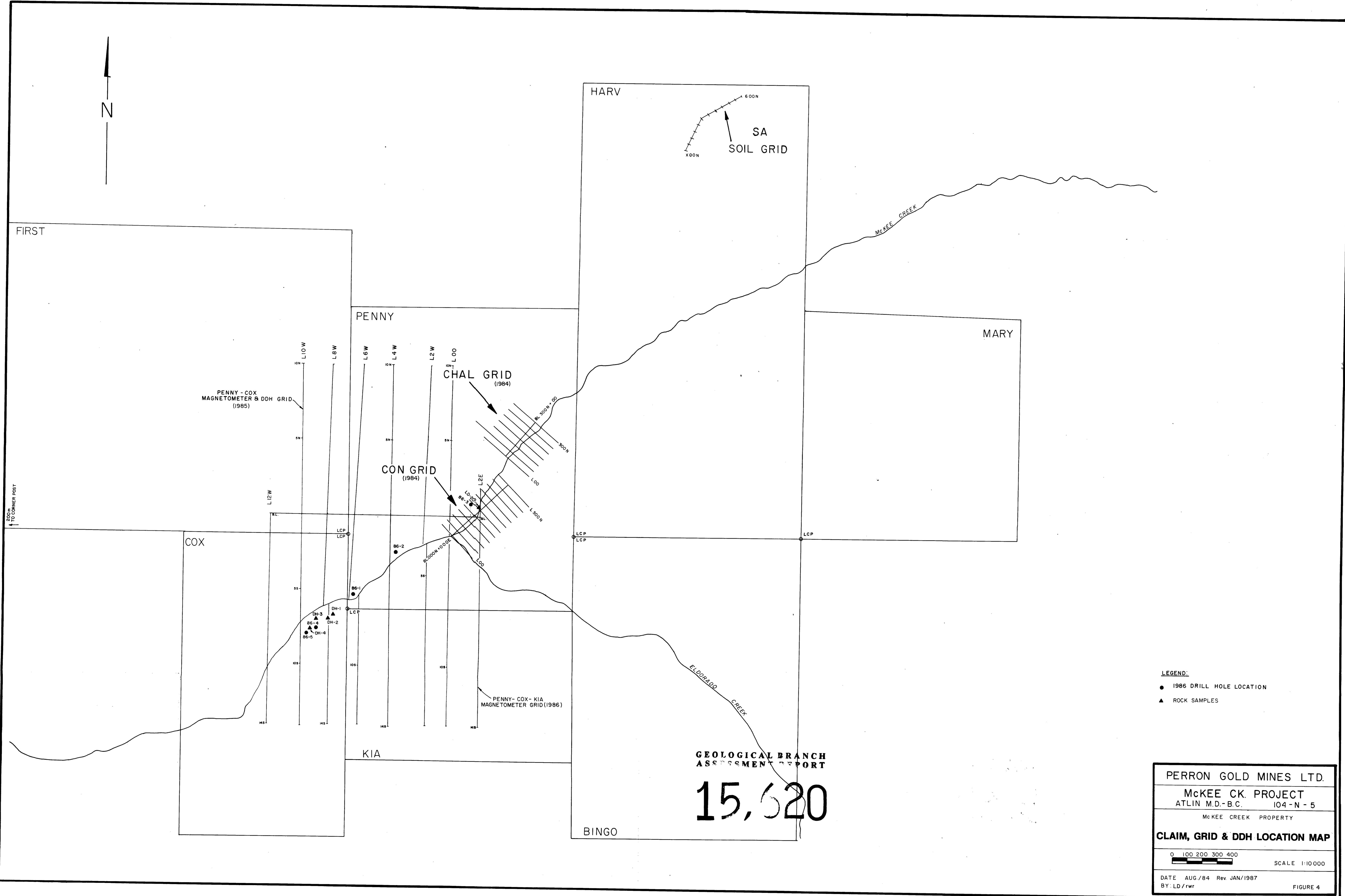
Semi quantitative multi element ICP analysis

Nitric-Aqua-Regia digestion of 0.5 gm of material followed by ICP analysis. Since this digestion is incomplete for many minerals, values reported for Al, Sb, Ba, Be, Ca, Cr, Ga, La, Mg, K, Na, Sr, Tl, Ti, W and U can only be considered as semi-quantitative.

### COMMENTS :

ATTN: ART TROUP CC: LINDA DANDY

| Sample description | Au ppb EA+AA | Al %    | Ag ppm  | As ppm  | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm   | Cr ppm | Cu ppm | Fe % | Ga ppm   | K %  | La ppm | Mg % | Mn ppm | Mo ppm | Na % | Ni ppm | P ppm | Pb ppm | Sb ppm | Sr ppm | Ti % | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |
|--------------------|--------------|---------|---------|---------|--------|--------|--------|------|--------|----------|--------|--------|------|----------|------|--------|------|--------|--------|------|--------|-------|--------|--------|--------|------|--------|-------|-------|-------|--------|
| S-5-41             | <5 3.91      | 0.2 <10 | 60 <0.5 | <2 0.54 | 0.5    | 101    | 1335   | 126  | 5.70   | 10 <0.01 | 20     | 5.08   | 943  | <1 <0.01 | 1052 | 950    | 4    | 10     | 16     | 0.02 | <10    | <10   | 120    | <10    | 134    | --   |        |       |       |       |        |
| S-5-42             | <5 3.49      | 0.2 <10 | 60 <0.5 | <2 0.48 | 0.5    | 85     | 1095   | 112  | 5.28   | 10 <0.01 | 10     | 4.47   | 880  | <1 0.01  | 853  | 840    | 6    | 10     | 14     | 0.02 | <10    | <10   | 119    | <10    | 132    | --   |        |       |       |       |        |
| S-5-43             | <5 3.17      | 0.2 10  | 60 <0.5 | <2 0.53 | 0.5    | 88     | 1048   | 123  | 5.21   | 10 <0.01 | 10     | 4.09   | 893  | <1 0.01  | 892  | 870    | 9    | 10     | 15     | 0.02 | <10    | <10   | 117    | <10    | 120    | --   |        |       |       |       |        |
| S-5-44             | <5 3.12      | 0.2 10  | 70 <0.5 | <2 0.59 | 0.5    | 105    | 1106   | 141  | 5.59   | 10 <0.01 | 10     | 4.18   | 930  | <1 <0.01 | 1095 | 850    | 10   | 10     | 16     | 0.02 | <10    | <10   | 106    | <10    | 136    | --   |        |       |       |       |        |
| S-5-45             | <5 2.99      | 0.2 10  | 60 <0.5 | <2 0.52 | 0.5    | 99     | 1002   | 137  | 5.37   | 10 <0.01 | 10     | 3.87   | 927  | 1 0.01   | 928  | 810    | 6    | 10     | 15     | 0.02 | <10    | <10   | 111    | <10    | 120    | --   |        |       |       |       |        |



15'620

GEODESICAL SURVEY  
ASSOCIATION REPORT

