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GEOLOGICAL AND GEOCHEMICAL REPORT

PELICAN PROPERTY

GOSSAN 1-9, 22, 25 CLAIMS

LIARD MINING DIVISION

FILMED

NTS: 104B/10W

LAT. 56° 33'N LONG. 130° 51'W

CATHEDRAL GOLD CORPORATION

by

R. MICHAEL JONES
D. JOHANNESSEN
D. GORC

JUNE 1989

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SUMMARY

The Pelican property is located in the Iskut River area, NTS 104B/10W, 90 km northeast of Stewart, B.C. Exploration in the area is active as a result of underground exploration on the Cominco-Prime Snip gold project and the commencement of production at Skyline's Johnny Mountain gold deposit.

The 1988 exploration program consisted of prospecting, rock sampling, soil sampling and limited geophysical surveys. The emphasis was on prospecting and rock sampling as geological mapping and soil sampling had been completed by previous owners. The previous work indicated that a geological environment similar to the Snip and Skyline gold deposits, located 15 km to the northwest, existed on the property but previous sampling failed to find significant gold values.

Narrow shears at the top of the Pelican cliff contain zinc, lead and silver mineralization but assays returned only low gold values. Talus and soil samples at the bottom of the cliff are high in copper and gold suggesting a separate gold-copper mineralized zone within the cliff. Further work is recommended on the Pelican cliff, possibly involving rock climbing to access previously unsampled areas.

Other results of note include a sample of quartz-pyrite float from the Snow Zone area assayed 11025 ppb gold. Further to the southeast a 0.5m wide quartz vein, which, assayed 6205 ppb gold.

Two zones of previously unmapped pyrite mineralization, the NG1 and NG2 showings, were found during the 1988 program. The zones are located 1.2 km apart and are likely on the same northwesterly trending, (120° AZ), structure. Both zones contain disseminated and massive pyrite within shears in a banded siltstone unit associated with nearby orthoclase porphyry intrusive plugs. Rock chip samples of the NG1 and NG2 zones returned only trace gold values, however, further work is recommended to investigate other gossans near the NG2 showing. The area northwest, along strike from the NG2, returned anomalous soil sample gold values in previous work.

1.0 INTRODUCTION

A program of prospecting, rock and soil sampling, geophysical surveys and geological mapping was carried out on the Gossan claims #1, 2, 4-7, 22, and 25 from August 25 to September 11, 1988. The crew of two geologists concentrated on prospecting and rock sampling as geological mapping and soil sampling had been completed on the property by previous operators. Two separate fly camps were established, one by the small lake near the LCP for the Gossan 5, 6, 7, 22 claims and the other near the Pins showing on the Gossan 2 claim.

Significant nearby mineral deposits and exploration projects include Cominco/Prime's Snip Deposit (16 km NW), Skyline's Johnny Mountain Mine (12 km NW), Inel Resources (6 km NW), Western Canadian Mining/Graf's Khyber Zone (5 km NW), Gulf International's McLymont Creek property (20 km N) and Consolidated Silver Standard's E & L deposit (6 km E).

2.0 LOCATION, ACCESS, TOPOGRAPHY

The Pelican property is located in the Iskut River area of northwestern British Columbia, on NTS map sheet 104B/10W.

The property is located along branches of Snippaker Creek approximately 16 km southeast of the Bronson Airstrip currently servicing the Cominco/Prime Snip project.

Access to the property is by charter aircraft from either Smithers (320 km), Terrace (280 km) or Wrangell, Alaska (80 km) to the Bronson airstrip and by helicopter to the property. There is a second airstrip located 1 km E of the property boundary, along Snippaker Creek. But the condition of this strip is uncertain as it has seen little use since completion of the Bronson Strip.

An alternative access route is by helicopter form the Bobquin Airstrip - Highway Maintenance camp located along the Stewart-Cassiar Highway, 50 km to the east. In addition, there is another airstrip on Skyline's Johnny Mountain property.

CATHEDRAL GOLD CORPORATION

PELICAN
LIARD M.D.

FIGURE 1 N.T.S. 104 B/10 W

LOCATION MAP

km 0 50 100 150 200 km

SCALE	1:3,750,000	GEOLOGIST	D. GORC
DATE	JUNE, 1989	DRAWN BY	J. CORKUM

The property occurs within the Coast Range Mountains which are characterized by rugged, steep, glaciated terrain. Elevations on the property range from 600m to 2300m above sea level. The upper elevations are marked by ice caps and valley glaciers. The southwestern portion of the property is marked by extremely rugged relief with many areas only accessible with mountain climbing gear. Movement about other portions of the property although time consuming is not overly difficult.

Vegetation ranges from thick alder growth along the valley bottoms to alpine grasses along the ridge tops. Stunted (1m - 3m) spruce trees cover the slopes to most ridges.

3.0 CLAIM INFORMATION

The Pelican property is comprised of 11 claim blocks totalling 188 units. The claims are located on NTS map sheet 104B/10W in the Liard M.D. The property has been divided into the following groups for assessment purposes.

TABLE 1

Claim Information - Pelican Property

GROUP 1

Claim Name	Units	Record No.	Recording Date	Year of Expiry
Gossan 1	20	2378	August 12/82	1989
Gossan 2	20	2379	August 12/82	1989
Gossan 3	20	2394	August 12/82	1989
Gossan 6	20	2397	August 24/82	1999
Gossan 7	20	2398	August 24/82	1990
	100 units			

GROUP 2

Claim Name	Units	Record No.	Recording Date	Year of Expiry
Gossan 4	20	2395	August 24/82	1989
Gossan 5	20	2396	August 24/82	1990
Gossan 8	12	2399	August 24/82	1989
Gossan 9	6	2400	August 24/82	1999
Gossan 22	10	2487	June 30/83	1989
Gossan 25	20	3369	August 13/83	1991
	88 units			

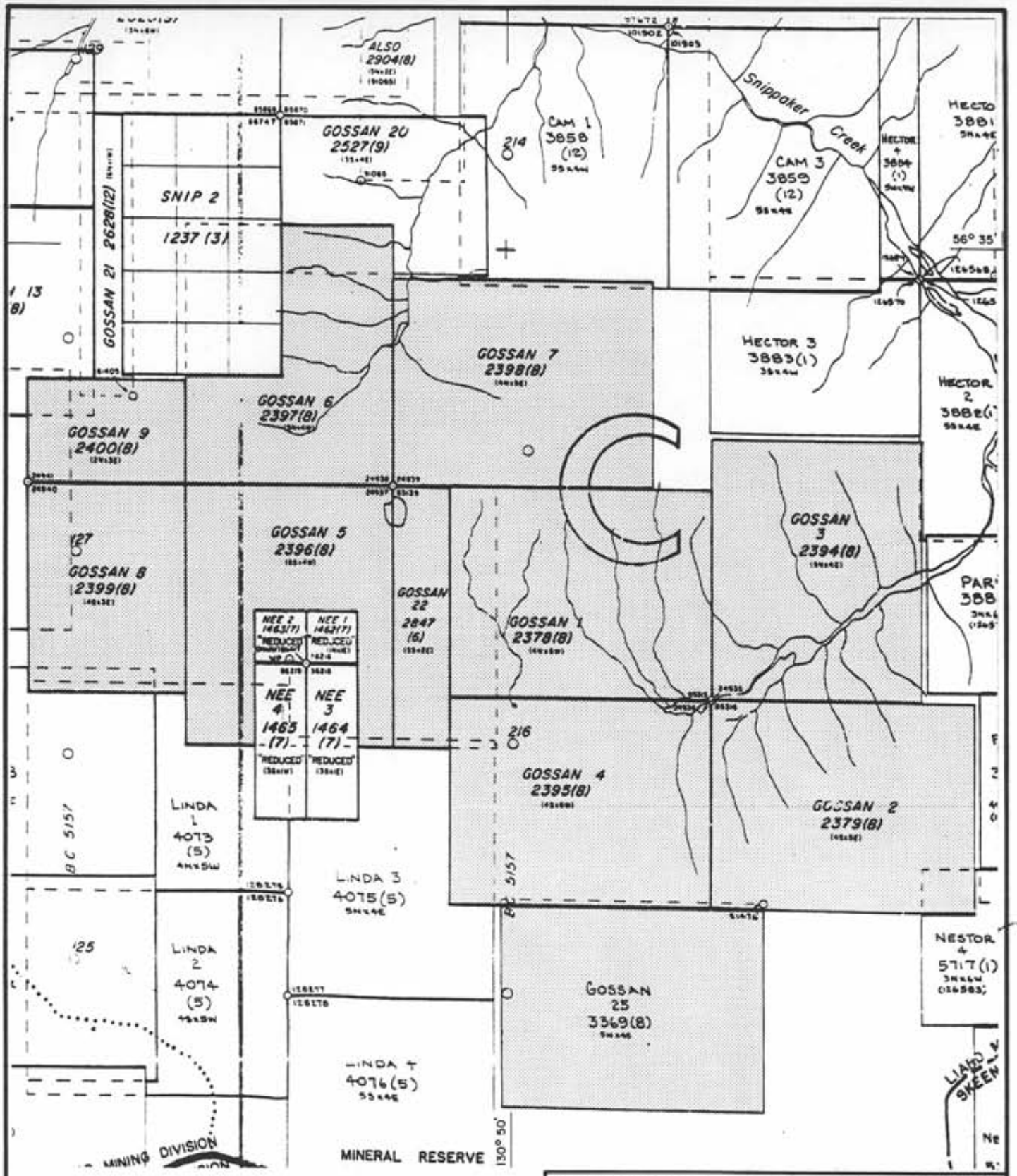
The Pelican property was staked by Mr. Chris Graf in 1982-83 as part of his Gossan Claim Group. In 1985, Western Canadian Mining Corporations signed an Option Agreement with Mr. Graf whereby Western Canadian could earn a 60% interest in the Gossan property. In August 1988, Cathedral Gold Corporation signed an option agreement whereby Cathedral Gold Corporation could earn Western Canadian's 60% interest in two separate portions of the Gossan property. One of these portions is now called the Pelican property.

4.0 EXPLORATION HISTORY

Mineral Exploration in the area dates back to 1907 with the discovery of mineralization near Johnny Mountain. Since then the area has undergone sporadic episodes of mineral exploration for both precious metals and base metals. One such period was in the 1960-1970s when several of the prominent large gossans were examined as possible copper porphyry targets. One such gossan examined occurs on the ridge abounding the property to the north and east. This large gossan was first explored by Great Plains Development in 1972. Subsequent work was done by Teck Corporation and Lonestar Resources Ltd. This work included geological mapping, soil geochemical surveys and silt geochemical surveys. Exploration in the area of the Pins showings located in the southern portion of property was first recorded in 1972 by Cobre Explorations. This work consisted of prospecting, geological mapping, soil geochemical surveys, magnetometer surveys and ground electromagnetic surveys.

The present Pelican property was staked in 1982-83 by Mr. Chris Graf as part of the larger Gossan property which extended a further 10 km to the northwest. In 1983, Lonestar Resources Ltd. completed an extensive regional mapping, silt sampling and soil sampling program over the entire Gossan property.

In 1987, Western Canadian completed a geological mapping, soil sampling and silt sampling programs over portions of the Pelican property.



CATHEDRAL GOLD CORPORATION

PELICAN
LIARD M.D.

FIGURE 2 N.T.S. 104B/10W

CLAIM MAP

m 0 1000 2000 3000 m

SCALE: 1:50,000	GEOLOGIST: D. GORC
DATE: JUNE, 1989	DRAWN BY: J. CORKUM

5.0 REGIONAL GEOLOGY

Regional mapping in the area includes work by Kerr (1948 and Grove (1971, 1986). More detailed mapping programs are currently underway by both the federal and provincial governments.

The property lies at the eastern edge of the Coast Plutonic Complex within a belt of Upper Triassic - Jurassic sedimentary and volcanic rocks. This assemblage is intruded by Mesozoic and Cenozoic stocks and dykes of granodiorite quartz monzonite and feldspar porphyry. In addition there are some Tertiary basalt and diorite plugs and dykes.

6.0 PROPERTY GEOLOGY

Both Lonestar (1984) and Western Canadian (1987) have completed property scale geological mapping programs. Bending (1984) divided the stratigraphy into five mappable units. These mappable units from oldest to youngest area: Black Argillite, Banded Siltstone, Green Volcanic, Upper Tuffaceous Sedimentary Unit and a Grey Volcanic unit. Intrusive rocks were divided by Bending into; granodiorite and diorite stocks, orthoclase porphyry, quartz-eye felsite dykes, Coast Range intrusives, and alkali basalt dykes.

A subset of the units outlined by Bending was used in the current mapping on the Pelican property.

6.1 Black Argillite Unit

The Black Argillite is dark grey to black, well bedded and contains narrow irregular quartz-carbonate veins. Black Argillite was only noted on the west Pins Ridge where there is little outcrop. Most of the southwest part of the Ridge is covered by angular Black Argillite talus.

131° 00'

GULF INTERNATIONAL MINERALS LTD.

SNIP PROPERTY - PRIME/COMINCO

SKYLINE EXPLORATIONS LTD.
JOHNNY MOUNTAIN GOLD MINE

BRONSON

INEL RESOURCES LTD.

WESTERN CANADIAN MINING/GRAF

PELICAN

ESKAY CREEK - CALPINE/ CONSOLIDATED STIKINE

56° 30'

LEGEND

CENOZOIC

1 Recent basalt flows, ash

2 Early Tertiary felsic intrusives

MESOZOIC

3 Cretaceous and Tertiary intrusive rocks, mainly felsic

4 Jurassic intrusives, syenite to granodiorite

5 Jurassic to Cretaceous clastic sediments, Upper Hazelton Group in part

6 Middle to Upper Jurassic Hazelton Group sediments

7 Upper Triassic to Middle Jurassic Hazelton Group volcanics and related sedimentary rocks

8 Triassic and Early Jurassic granodiorite

9 Upper Triassic to Lower Jurassic andesitic volcanics and clastic sediments

PALEOZOIC

10 Carboniferous and Permian greenstone, clastic sediments and limestone

11 Carboniferous and Permian schist and gneiss

12 Metamorphic rocks, age unknown

Ice Field Cover

CATHEDRAL GOLD CORPORATION

BRONSON - PELICAN
LIARD M.D.

FIGURE 3 N.T.S. 104B/10W,11E

REGIONAL GEOLOGY

km 0 5 10 15 km

SCALE: 1:250,000	GEOLOGIST: D. GORC
DATE: JUNE, 1989	DRAWN BY: J. CORKUM

6.2 Banded Siltstone Unit

The contact between Banded Siltstone and Black Argillite was not observed, however, Bending, 1984, reports that the Siltstone overlies the Argillite and that the Siltstone has variable thickness of approximately 400 meters.

The Banded Siltstone consists of 1-5 cm light grey, coarser grained and medium green, darker coloured, finer grained bands. The weathering colour varies from light buff green to bright red gossanous with the introduction of only 1-2% disseminated pyrite. The Banded Siltstone is hard, competent and relatively unfoliated.

6.3 Green Volcanic Unit

The Green Volcanic unit is in general a massive medium green chloritic basalt, however, one outcrop of volcanoclastic agglomerate was observed east of the lake. The agglomerate consists of coarse grained dioritic textured rounded to subangular, 3-30 cm, clasts in fine light green chloritic matrix. The massive basalt has a distinctive green colour, however, frequently 1-2% disseminated pyrite causes a rusty brown weathered colour. Several bright red gossanous areas are caused by relatively unaltered Green Volcanic with minor disseminated pyrite.

Rhyolite tuffs, flows and breccias as well as diverse breccias are reported by Bending to occur elsewhere within the Green Volcanic unit, however, these lithologies were not observed during the 1988 program.

6.4 Granodiorite and Diorite Intrusives

Large areas of the Pelican property is underlain by medium grained, light green granodiorite or diorite. These intrusive are commonly massive, unfoliated and weakly silicified. At the north end of the Lake ridge brittle fractures in a siliceous diorite are filled by irregular narrow quartz veinlets.

6.5 Orthoclase Porphyry Intrusive

The name orthoclase porphyry is applied to a distinctive white feldspar porphyritic rock probably granodiorite or quartz monozonite in composition. Although the name orthoclase porphyry is used it has not been determined that the feldspar phenocrysts are K-spars. Feldspar phenocrysts 1-3cm make up 5-10% of the rock in a grey-green groundmass. The unaltered rock commonly weathers white. Strong epidote alteration is common and these rocks contain epidote pseudomorphs after feldspar phenocrysts. Commonly the orthoclase porphyry outcrops as plugs less than 50m. Such plugs are fractured and pyritized where they occur near shearing. In the Lake zone area, orthoclase porphyry is strongly fractured and predates the shearing. The intrusion of the orthoclase porphyry plug on the east edge of the Lake zone ridge, at the NG-1 showing, may have resulted in abundant flat shearing in the adjacent Banded Siltstone.

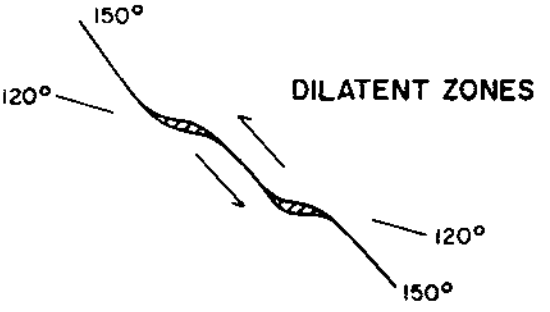
6.6 Structure

Mapping by Lonestar (Bending, 1984) found that the sequence of volcanic and sedimentary rocks is gently to intensely folded and cut by significant faults. The most prominent shear directions were north-northwest (150°) and east-northeast (070°). Bending notes that most granodiorite and orthoclase porphyry dykes are oriented parallel to one of these regional fracture patterns.

Dominant fracture patterns on the Pelican property, mapped in the 1988 program, are in order of abundance 150° to 120°, 000° to 020° and 060°. Two strong north-south faults cut the stratigraphy, one on the eastern edge of the area mapped and a second zone adjacent to the Lake glacier.

Northwest trending shearing occurs in two areas of orthoclase porphyry intrusives and strong pyrite mineralization, named the NG1 and NG2. NG1 and NG2 are discussed in detail in the Economic Geology section. Both mineralized zones are probably located along the same generally northwest trending strong shear (120°-150°). Interestingly, the shearing within the strongest mineralized sections of both zones trends 120° and at the ends of the two zones the shearing trends 145°. A possible model to explain this observation is illustrated below. Dilatent zones within a generally 145° sinestral shear would occur along 120° trending sections.

The overall strike of the shear may be 145° and consist of 150° and 120° sections as shown. The dilatent zones are prone to orthoclase porphyry intrusives and mineralization. The mineralization ends as the shear returns to a 150° trend.



7.0 ECONOMIC GEOLOGY

Previous work by Lonestar (1989) and Western Canadian (1987) have located several showings and/or target areas. These include the Pelican, Lake, Snow, Pins and Sericite East zones. All these areas were examined in 1988 although only one day was spent on the Sericite East area.

The Pelican area is located north of the lake and covers the Pelican showing at the top of a steep cliff. The Snow Zone covers a steep north-south ridge to the east of the lake.

The Lake Zone is located west of the lake and consists of a flat topped ridge.

The Sericite East area is located at the northern end of the property adjacent to Teck's Snip claim.

The NG1, NG2 and Southeast Zones are newly mapped areas of mineralization within, and west of, the Lake Zone.

7.1 Pelican Area

Soil sampling by Lonestar in 1983 outlined a one-sample wide east-west trending gold anomaly with highs of 1600 and 1000 ppb. The anomaly starts just north and below a steep cliff and extends 1.3 km to the east.

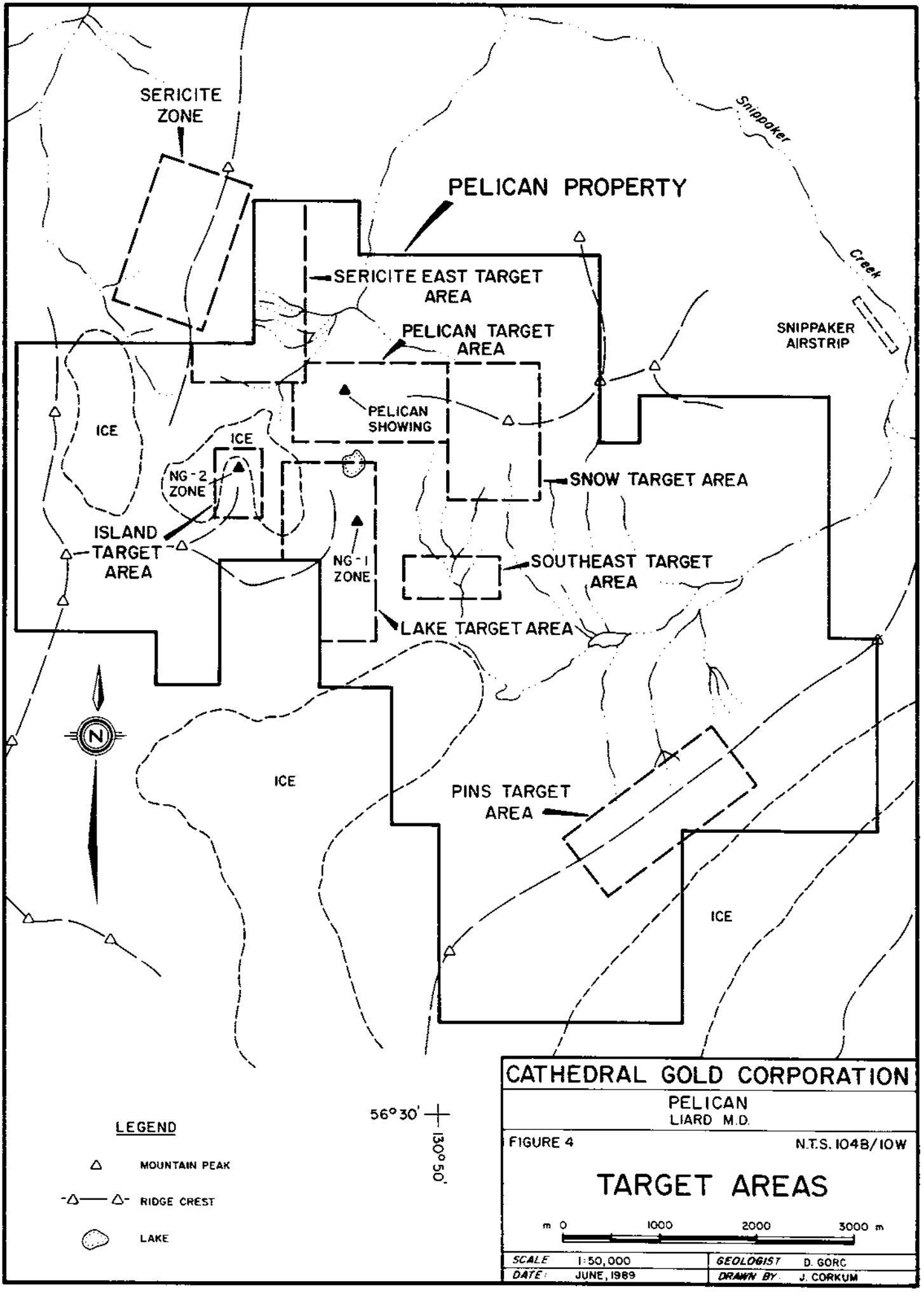
The Pelican showing is located half way up this cliff and extends 50m vertically to the top at 1200 meters elevation. The showing consists of two mineralized north trending silicified shears.

In the lower shear is a 10 cm mineralized zone containing 3-5% pyrite, 5-10% galena with epidote and quartz gangue. The mineralization is discontinuous along the length examined and is generally limited to pods 0.5 to 1m in length.

The upper shear is less mineralized and silicified with 3-5% pyrite and limonite staining. It was sampled previously by Lonestar Resources Ltd.

Both showings occur in green volcanics with the contact to banded siltstone 10m vertically below the lower shear. Near this contact the banded siltstone unit contains minor silicification with malachite and pyrite in a restricted zone. The siltstone unit is not altered over a large area. However, mineralized float (was found) below this showing suggesting that there are more mineralized zones in the vicinity.

Rock sampling from the lower Pelican showing (Pel-88-D-30 to 37) returned values of up to 9.0% zinc and 3163 ppb copper. One sample assayed 2.1% zinc, 2.5% lead and 325 ppb gold and 16 ppm silver. The highest precious metals values returned were 39.3 ppm Ag and 870 ppb gold with 3.3% zinc, 6296 ppm lead, 1536 ppm Cu. In general the Pelican showing samples are high in zinc and lead and low in copper and gold.


SERICITE ZONE
PELICAN PROPERTY
Snippaker Creek
SERICITE EAST TARGET AREA
PELICAN TARGET AREA
SNIPPAKER AIRSTRIP
PELICAN SHOWING
ICE
ICE
NG-2 ZONE
SNOW TARGET AREA
ISLAND TARGET AREA
NG-1 ZONE
SOUTHEAST TARGET AREA
LAKE TARGET AREA
N
ICE
PINS TARGET AREA
ICE
56°30'
130°50'
LEGEND
MOUNTAIN PEAK
RIDGE CREST
LAKE
CATHEDRAL GOLD CORPORATION
PELICAN
LIARD M.D.
FIGURE 4
N.T.S. 104B/10W
TARGET AREAS
m 0 1000 2000 3000 m
SCALE 1:50,000
GEOLOGIST D. GORC
DATE JUNE, 1989
DRAWN BY J. CORKUM

PELICAN CLIFF

PLATE 1 - Looking northwest towards the Pelican Cliff.
The gossanous Sericite Ridge is in the background.

Sample, Pel-88-J-30, of green volcanic located to the west and below the Pelican showing returned values of 1.5% zinc and 1015 ppm Au gold. A sample of foliated dark green talus with 30% chalcopyrite and a power-blue weathering assayed 6.4% copper, 1551 ppm zinc, 74.0 ppm silver and 2895 ppb gold (Pel-88-J-32). Sample Pel-88-J-32 is located at the bottom of the Pelican cliff. In contrast to the samples from the Pelican showing itself this talus sample is high in copper, silver and gold and low in zinc, suggesting a separate mineralized source in the Pelican cliff.

Soil sampling north of the Pelican cliff outlined a strong gold, copper, lead, zinc anomaly. Soil sampling is discussed in detail in the Geochemistry section.

7.2 Snow Zone

The northern end of the Snow zone ridge consists of a $10m^2$ outcrop of green volcanic unit with 3 cm wide 50 cm long pyrite-quartz vein and pyrite-filled irregular fractures. The outcrop is weathered a bright red gossan. This area was previously sampled by Western Canadian Mining with only trace gold values and soil sampling by Lonestar in this area did not find any anomalous gold values.

Two rock samples, Pel-88-J-20, 21, also returned trace gold values. A rounded boulder of white milky quartz vein with 50% greyish, coarse, euhedral, pyrite, found at the bottom of the north end of the Snow zone ridge assayed 11025 ppb gold (0.32 oz Au/ton). This sample may have travelled a large distance however, the quartz vein pyrite filled fractures in outcrop at the north end of the Snow Zone ridge have a similar milky whitish appearance with grey euhedral pyrite.

Several visible gossans along the Snow zone ridge were prospected and sampled. All of the Snow Zone gossans were found to contain 1-2% disseminated pyrite in relatively unaltered rock. Near the south end of the ridge a faulted contact between diorite and green volcanic was prospected, however, only 1-3% pyrite and moderate silicification was found.

7.3 Lake Zone

Fracturing and other evidence of faulting was most noticeable in the Lake Zone. Strong structures, pyrite mineralization, and orthoclase porphyry intrusives indicate this area has potential for gold mineralization.

The rocks along the ridge have little penetrative fabric and are strongly jointed and fractured indicating mostly brittle deformation. Dominant fracture orientations in order of abundance are northwest, north-northeast and east-northeast.

Previous work by Lonestar (Bending, 1984) outlined a north-south fault structure along the edge of the Lake Glacier with silicified and pyritized banded siltstone along the fault. This area was prospected and sampled during the 1988 program and the altered pyritized rock along the fault is thought to be silicified diorite or silicified granodiorite. Sampling returned anomalous gold values.

At the southern extent of the zone adjacent to the glacier, the contact with banded siltstone is silicified and slightly pyritized. Weak north-south fracturing cuts the contact area. The contact is obscured by a silicified and pyritized orthoclase porphyry plug which may have caused some northwest shearing in the diorite.

Although the Lake zone appears to have potential for gold mineralization the assay results are disappointing. No anomalous gold values were returned from the Lake zone rock samples.

The central part of the Lake zone ridge consists of mostly massive diorite to granodiorite. In one outcrop a 1m wide quartz vein with 1% chalcopyrite lies within a 150° fault. Green volcanic occurs west of the fault and orthoclase porphyry occurs east of the fault.

At the southern end of the Lake zone ridge there are several outcrops of a strongly sheared fine grained brown rock, probably a siltstone or mudstone. One area, of this rock, consisted of a north-south shear riddled with up to 30% quartz-carbonate veins up to 1m wide in a zone at least 3m wide. Only trace pyrite occurs in the quartz veins or the host rock. Approximately 20m to the east a similar rock contains intense flat shearing and trace pyrite. Southeast and down the hill an area of intense gossan is visible, the gossan as outcrop consists of relatively unfractured chloritic unaltered green volcanic containing 2% disseminated pyrite.

7.4 NG1 Zone

On the east side of the Lake zone ridge a pyritic shear zone trending 120°, dipping 45° southwest, was prospected. This zone was not on Lonestar's or Western Canadian Mining's maps and is here named the NG1 zone. The shear is exposed as a gossanous cliff with a 5m wide zone of 3-5% pyrite over a length of 130m. Snow covers the limits of the pyritic zone. Strong pyrite mineralization occurs where the 120° shear intersects the corner of a $25m^2$ orthoclase porphyry intrusive plug. The orthoclase porphyry is strongly fractured and contains 50 cm long by 2 cm wide seams of massive pyrite. The overall pyrite content of the mineralized porphyry averages 5%. Up to 3 cm, obvious, white orthoclase phenocrysts make up 2-4% of the porphyry which weathers white to rusty. A 2m by 3m zone at the contact of the orthoclase porphyry and surrounding siltstone contains 30% pyrite and is silicified, bleached, and epidotized. A second, $25m^2$, orthoclase porphyry is located 20m to the north however it is not as strongly mineralized and contains only 3% pyrite along fractures. Minor fracturing at 120° also occurs in this second porphyry.

Approximately 5m southeast of the well pyritized orthoclase porphyry the banded siltstone is strongly sheared at 120° and contains numerous flat shears. The flat shearing may be a result of the intrusion of the porphyry. A chloritic 3cm wide 120° shear contains massive pyrite and the surrounding rock over 4m in width contains 3-5% disseminated pyrite.

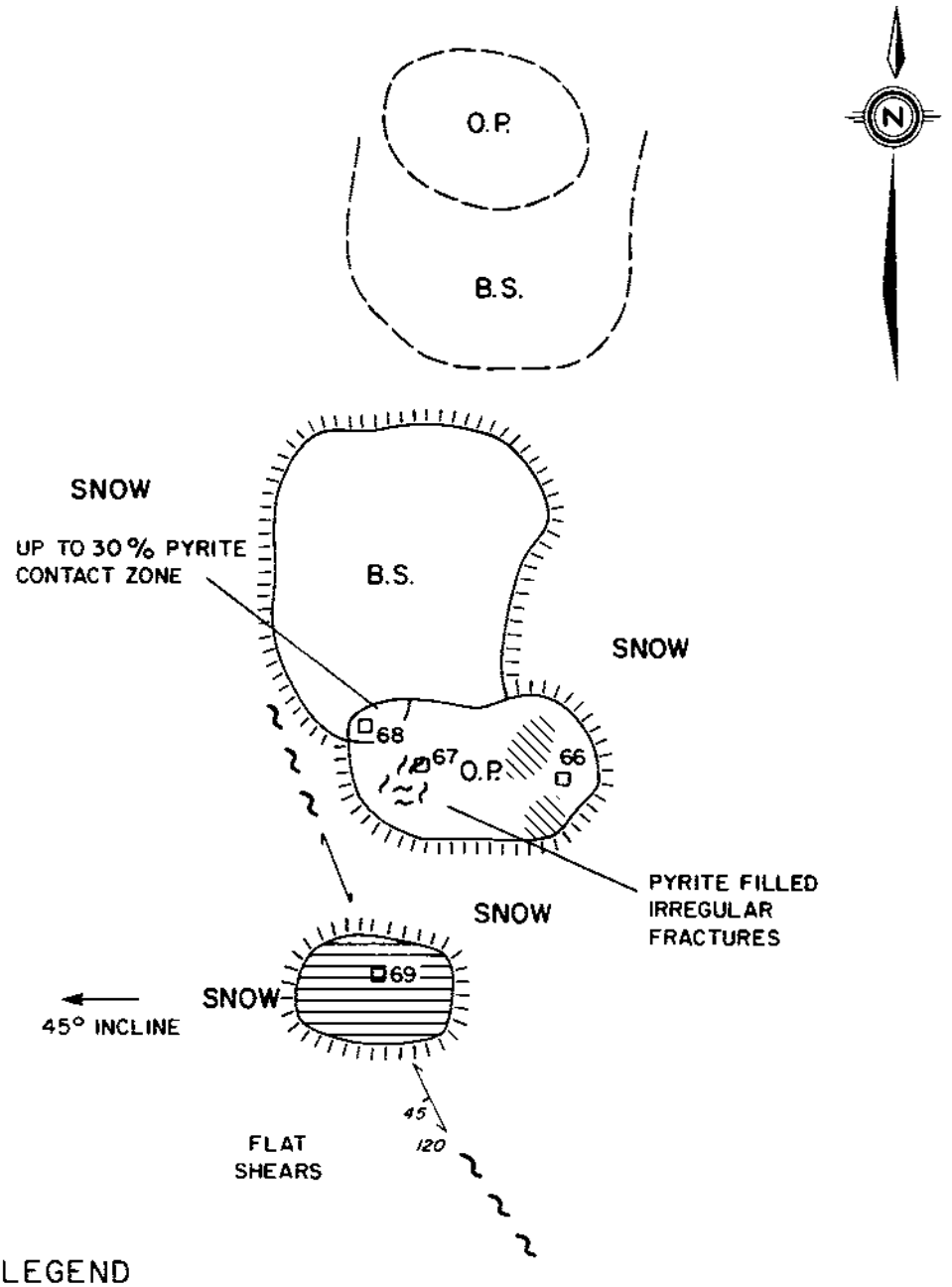
The NG1 Zone is well mineralized, however, no anomalous gold values were returned from samples of the NG1 Zone.

7.5 NG2 Zone

A steep, rugged outcrop, called the Island, is located in the centre of the Lake Glacier. (See photos, Fig. 5, 6 and Sketch, Fig. 7.) Mapping by Lonestar (Bending, 1984) noted two areas of gossan high up on the Island at 1300m and 1450m elevation. These areas were not visited, in this program, due to the steep terrain and should be followed up, probably by using a helicopter to land on the top of the Island.

LAKE ZONE - NG1 ZONE

PLATE 2 - Looking west.



LEGEND

B.S.	BANDED SILTSTONE UNIT
O.P.	ORTHOCLASE PORPHYRY UNIT
	FLAT SHEARING
~ ~	SHEAR ZONE
	OUTCROP
	STRONG FRACTURING
□	PEL-88-J-No. ROCK SAMPLE

CATHEDRAL GOLD CORPORATION

PELICAN
LIARD M.D.

FIGURE 7 N.T.S. 104B/10W

NG-1 ZONE

m 0 10 20 30 m

SCALE	1:500	GEOLOGIST	D. GORC
DATE	JUNE, 1989	DRAWN BY	J. CORKUM

At 1150m elevation on the Island an overhanging cliff 4m high marks a 120° shear dipping 50° to the southwest. The shear cuts across banded siltstone and orthoclase porphyry. A strongly pyritized zone adjacent to this shear is called the NG2 Showing. Adjacent to the 1-2m wide, chloritic, strongly foliated, shear itself, a zone up to 7m in width is mineralized with 10% pyrite including some massive pyrite sections. Part of the shear is light grey, and contains 5% pyrite. A 1m wide quartz vein with chloritic wall rock inclusions and trace pyrite is adjacent to and follows the shear. A $30m^2$ orthoclase porphyry intrusive is located near the strongest pyrite mineralization. Above the sheared cliff is a zone of average 25% pyrite with pods up to 1m by 2m of massive pyrite.

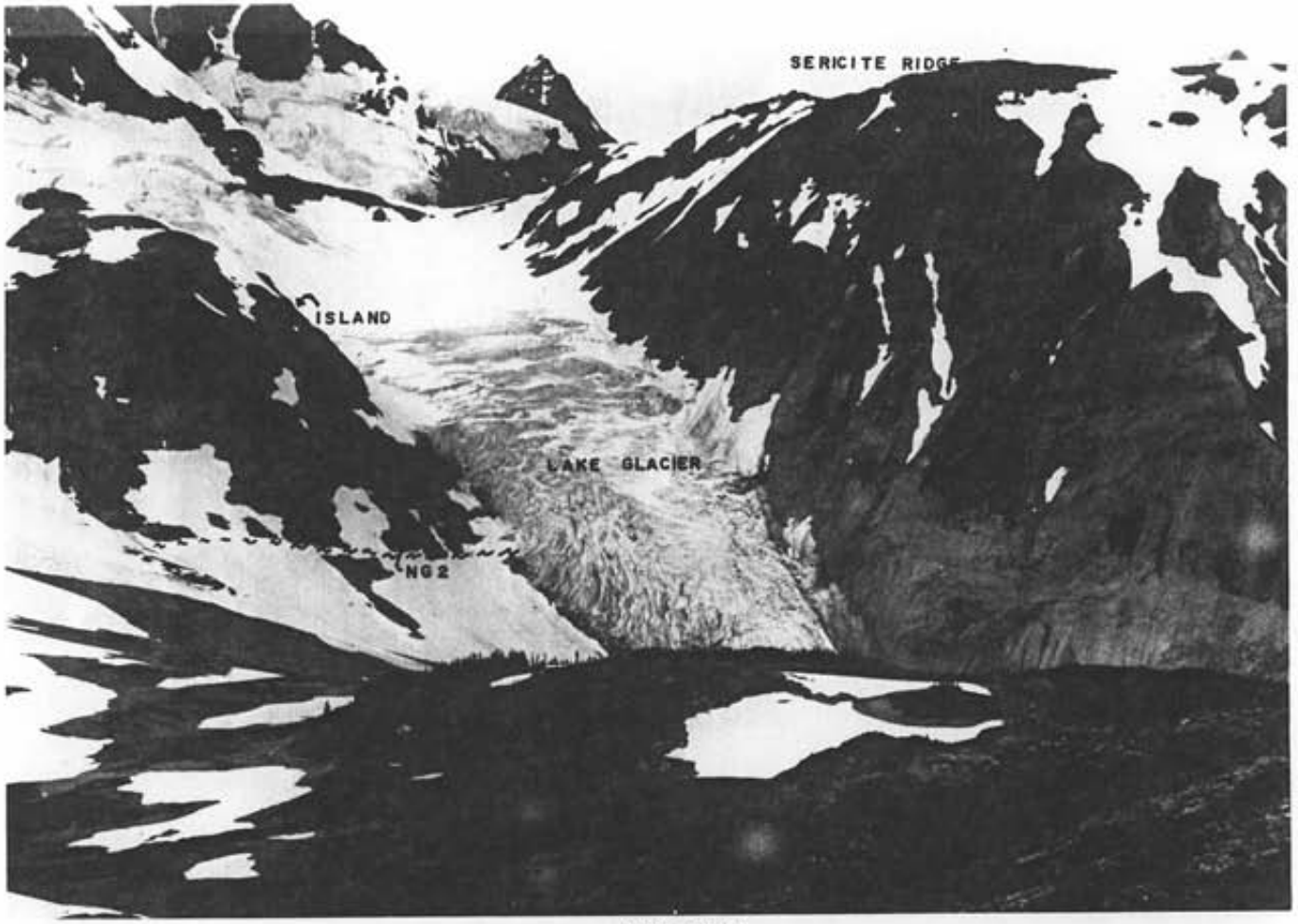
The host rock for this strong pyrite mineralization is strongly epidotized and moderately silicified. The overall colour of the host rock is a light apple green and the rock can be either crumbly or very hard and competent. The original rock type is not known. The eastern edge of the NG2 Zone consists of banded siltstone intruded by another orthoclase porphyry plug. The porphyry is exposed over 10m and is bounded on the east by unaltered granodiorite. The banded siltstone is sheared at 120° accompanied by a silicified zone 15 to 20m wide. Pyrite occurs disseminated, 5-10% in and pods up to 2m across of 30%. The pyritic zones are also altered with quartz, epidote and chlorite. The cliff wall south of the main shear is less silicified and contains 3-5% pyrite.

The main part of the shear along the mineralized NG2 Showing trends 120° and dips 50° to the south, however, at the western part of the NG2 outcrop the fracturing trends 145°. A shear trend of 145° from the Island would line-up with strong faulting, noted by Lonestar (Bending, 1984), on Sericite Ridge 400m to the northwest. Also a trend of 120° to the southeast would line up with the NG1 Zone located 1.2 km to the southeast.

It is possible that the NG1 and NG2 Zones are part of the same northwesterly trending shear. Interestingly, two soil samples located on Sericite Ridge, taken as part of Lonestar's 1984 reconnaissance program, returned greater than 350 ppb gold. These samples are located on a mapped fault which is the direct 120° extension of the NG2 Zone on the Island. On the glacier below, and approximately 300m north of the NG2 zone, float of banded siltstone containing 3-5% pyrite and minor malachite staining on fractures was found. This float probably originated from the Island and Lonestar's map has a copper showing on the eastern end of the Island. This showing was not visited due to the steep snow covered terrain.

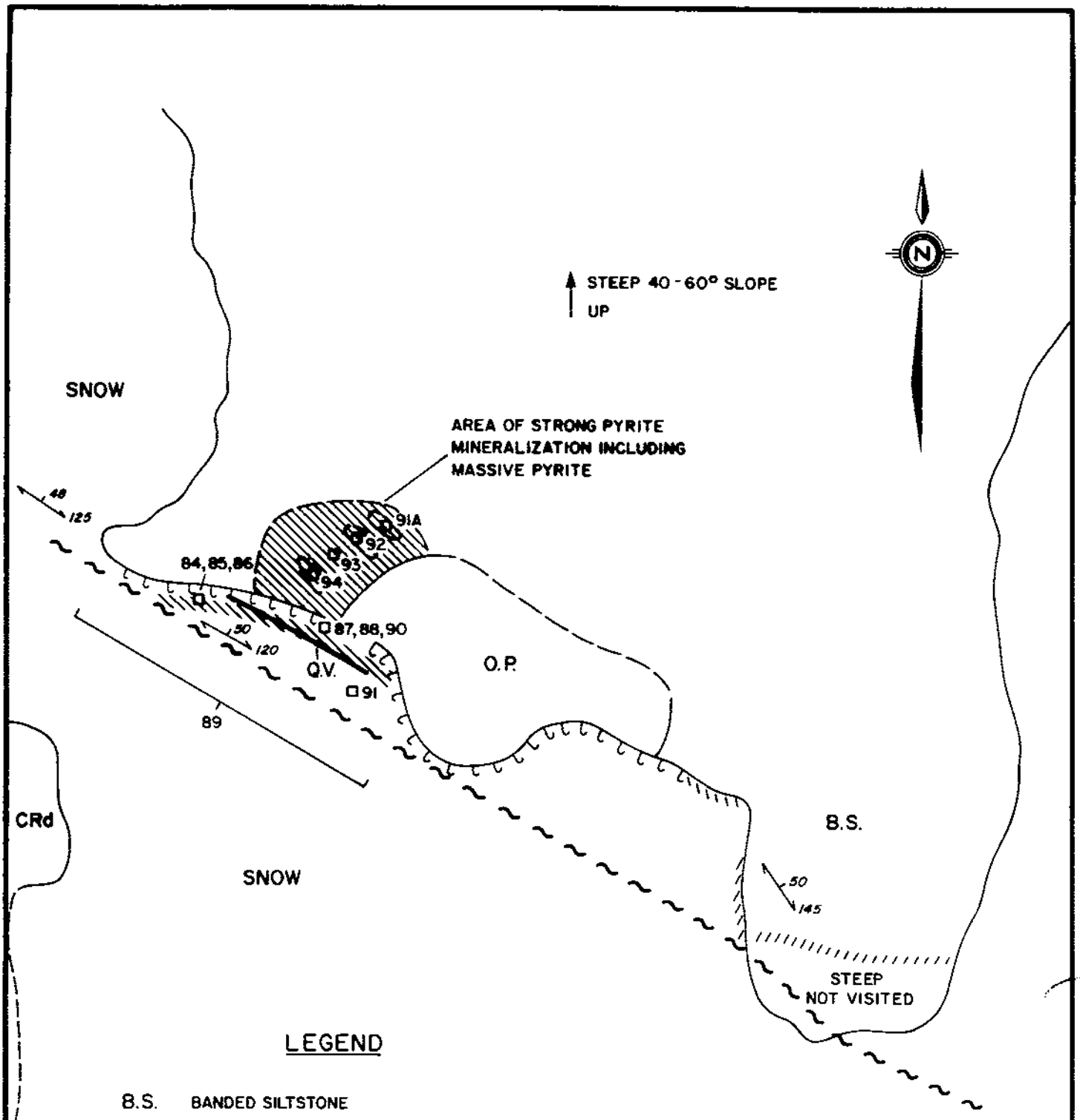
PELICAN CLIFF TO NG2 ZONE

PLATE 3 - Looking northwest.



NG2 ZONE

PLATE 4 - Looking northwest.



LEGEND

B.S.	BANDED SILTSTONE
O.P.	ORTHOCLASE PORPHYRY
CRd	DIORITE INTRUSIVE
Q.V.	QUARTZ VEIN
~ ~	SHEAR ZONE
□	PEL - 88 - J - No. ROCK SAMPLE
	AREA OF STRONG PYRITE MINERALIZATION
	MASSIVE PYRITE
	OVERHANG CLIFF - 4 m HIGH

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FIGURE 8 N.T.S. 104B/10W

NG - 2 ZONE

m 0 10 20 30 m

SCALE: 1:500	GEOLOGIST: D. GORC
DATE: JUNE, 1989	DRAWN BY: J. CORKUM

The area from the NG1 to the NG2 and on to the southern limit of Sericite ridge should be further investigated.

Rock samples from the NG2 Zone gave low gold values. However gold mineralization may occur elsewhere along this sheared and mineralized system.

7.6 Southeast Area

Southeast of the Lake most of the outcrop is exposed along the steep creek valley. Most of the area consists of massive diorite with minor orthoclase porphyry. A tabular 0.5m milky white quartz vein with 2% pyrite and up to 1 cm square weathered out voids assayed 6205 ppb gold. The vein strikes 050°, dipping 80° south and may explain anomalous soil values to the southwest found by Lonestar in 1984. An outcrop of pervasively silicified rock with 4% disseminated pyrite, near the gold bearing quartz vein, contained only trace gold.

7.7 Pins Ridge

The southern slope of the west peak in the Pins area consists of black argillite with quartz-carbonate veins 1-2 cm wide. Outcrop is very limited and most of the slope is talus. Minor galena and sphalerite occur in some of the veins and in east-west trending foliation in the argillite.

The minor amount of mineralized talus suggests that the mineralized areas are small. One talus sample of black argillite with visible honey-coloured sphalerite assayed 1.1% lead, 4.8% zinc, 27 ppm silver and 3605 ppb gold. A sample from a small outcrop of a 0.5m wide zone of quartz carbonate veins with trace galena and sphalerite returned 9555 ppm lead, 3604 ppm zinc, 9.5 ppm silver and 1430 ppb gold. The anomalous gold values found in the 1988 program are higher than gold values found previously.

In the central portion of the Pins area are outcrops of banded siltstone, granodiorite and green volcanics which are slightly pyritized and silicified. Pyrite content in these rocks is up to 3%. These rocks extend over the north cliff which is gossanous with an average pyrite content of 2-3% and is slightly silicified.

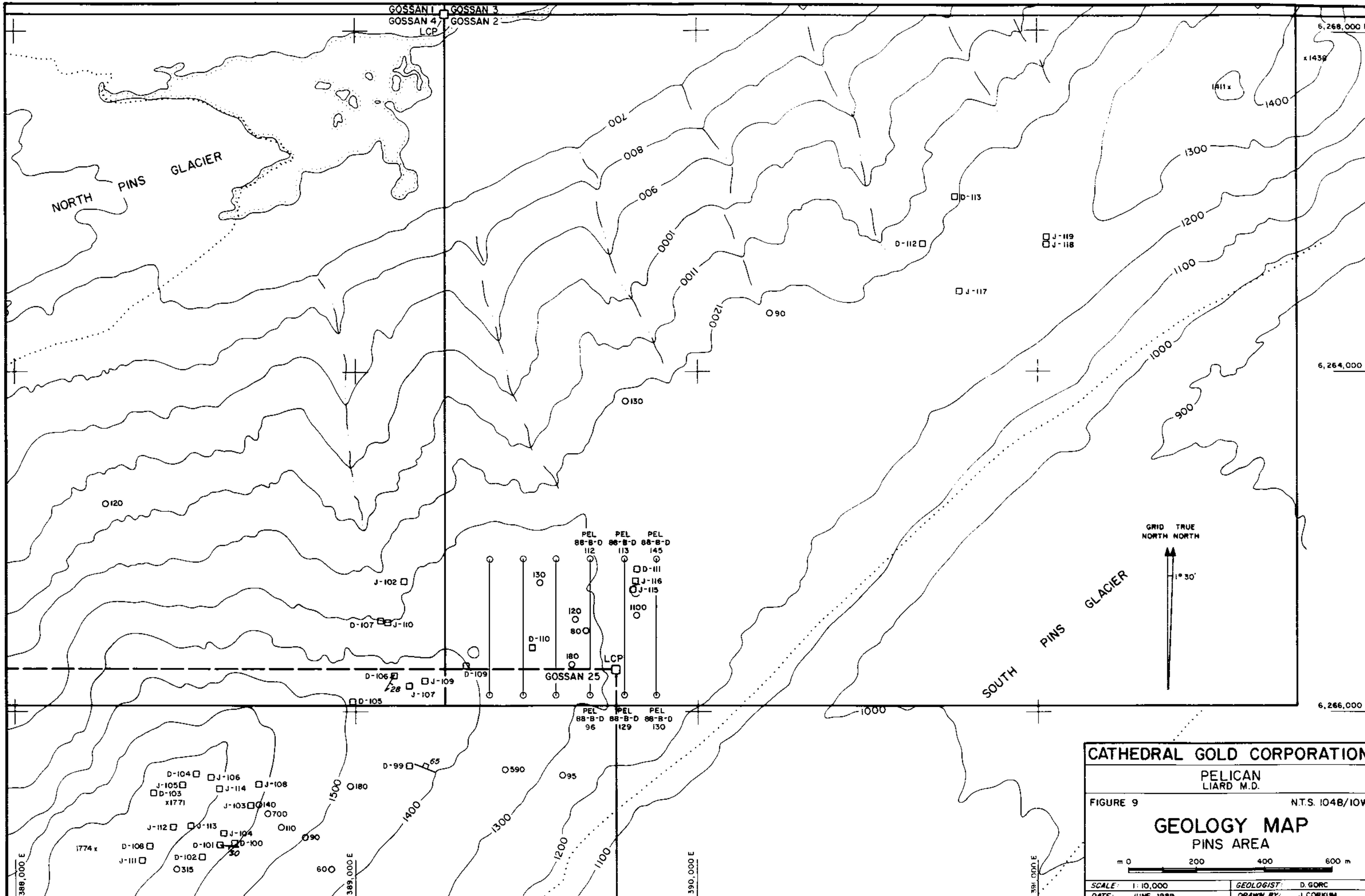
GOSSAN 1
GOSSAN 3
GOSSAN 4
GOSSAN 2
LCP
NORTH PINS GLACIER
SOUTH PINS GLACIER
GOSSAN 25
LCP
6,268,000 N
6,264,000 N
6,266,000 N
388,000 E
389,000 E
390,000 E
391,000 E
GRID NORTH
TRUE NORTH
1° 30'
PEL 88-B-D 112
PEL 88-B-D 113
PEL 88-B-D 145
PEL 88-B-D 96
PEL 88-B-D 129
PEL 88-B-D 130
D-113
D-112
J-119
J-118
J-117
D-111
J-116
J-115
J-102
D-107
J-110
D-110
D-106
D-109
J-109
J-107
D-105
D-99
D-104
J-106
J-105
D-103
J-114
J-108
J-103
J-112
J-113
J-104
D-108
D-101
D-100
D-102
J-111
x1771
1774 x
1811 x
x 1439
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FIGURE 9
N.T.S. 104B/10W
GEOLOGY MAP
PINS AREA
m 0
200
400
600 m
SCALE: 1:10,000
DATE: JUNE, 1989
GEOLOGIST: D. GORC
DRAWN BY: J. CORKUM

7.8 Sericite East Area

The "Tami" porphyry copper prospect occurs on Teck Corp's Snip claim immediately north and wet of the Pelican property. Large areas of anomalous soils and copper-gold minealization have been reported on this property. In 1987 Western Canadian completed a soil geochemical survey on the portion of the Pelican property bordering the Snip claim returning many anomalous gold values.

During the 1988 program one day was spent prospecting the cliffs immediately above the 1987 soil grid. Several small (10 - 20 cm) thick quartz-pyrite veins were sampled:

TABLE 2

Rock Geochemistry - Sericite East Area

Sample No.	Cu ppm	Zn ppm	Ag ppm	As ppm	Au ppb
ED 001	22	133	0.4	9	8
ED 002	18	174	1.0	18	58
ED 003	20	861	0.1	13	9
ED 004	22	100	1.2	45	133
ED 005	30	26	0.7	4	108
ED 006	12	11	0.3	9	27
ED 007	29	22	1.3	4	470
ED 008	19	14	0.4	11	49
ED 009	7865	1372	9.9	10	580

8.0 GEOCHEMISTRY GRIDS

A small area southeast of the Lake, called the Ridge Grid, was covered by soil sampling at 25m spacing on 100m lines. The B-horizon soil sampling was carried out to follow-up gold soil anomalies found by Lonestar in 1984 in this area (Fig. 13). The soil grid confirms the gold anomaly found by Lonestar, however, the strongest part of the anomaly is in an area dominated by fluvially transported soil. Further prospecting should be carried out east of the Lake where the soil is less likely to be transported.

An area covering part of the Pins ridge was also B-horizon soil sampled at 25m intervals on 100m lines (Fig. 10, Pins Geochemistry). The soil sampling here was implemented to cover the 1000 ppb Au anomalous soil value from Lonestar's work and a nearby small showing of chalcopyrite. No strong gold anomalies were found.

Three reconnaissance lines were soil sampled along the east and southeast edges of the Lake Zone ridge. Anomalous gold values up to 3500 ppb were found by Lonestar along the southeast edge of the Lake zone ridge. A weak gold anomaly was confirmed at the top of the slope near the Nee claim boundary. Rock samples from this area gave only trace values, however the outcrops of sheared, quartz-carbonate veined mudstone should be investigated further. Soil samples from the east slope of the Lake zone ridge returned no significant anomalous gold values.

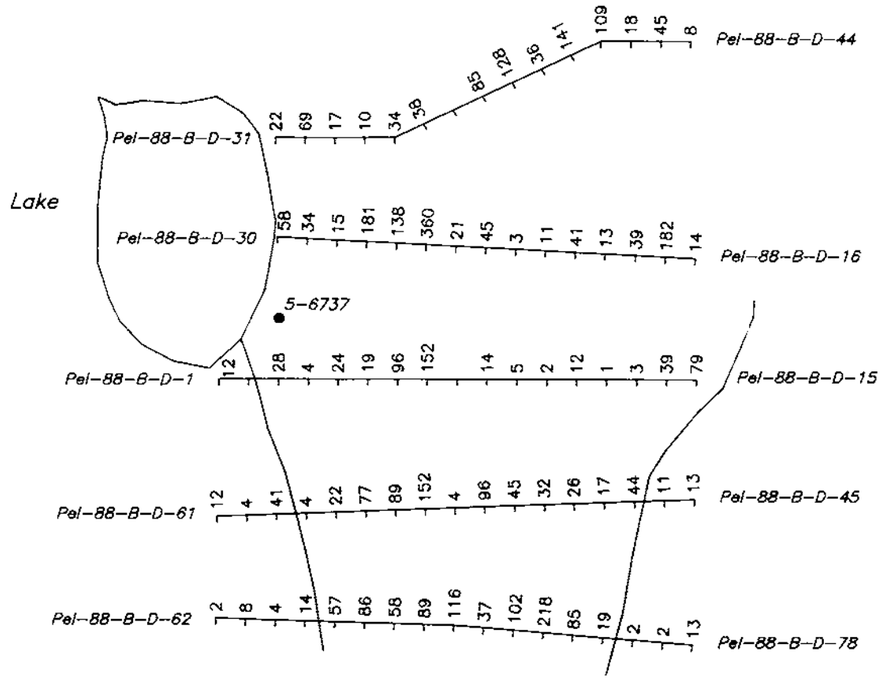
A detailed grid was established north and east of the Pelican cliff. Soil sampling over mostly the north part of the grid confirmed a strong gold anomaly north of the cliff. The area north of the cliff is also strongly anomalous in zinc, copper and lead. The copper and gold anomalous values appear to be more restricted to the area immediately north of the cliff compared to the more widespread zinc values.

9.0 GEOPHYSICS

SJV Consultants completed a VLF electromagnetic and magnetometer survey on the Pelican grid. The survey outlined two parallel VLF-EM anomalies located on the southeast part of the grid. This anomaly because of its shape and location near the edge of the grid is difficult to interpret and should be investigated more thoroughly with geological follow-up and possibly Max-Min.

The remainder of the VLF-EM anomalies near the center of the grid are likely due to structure such as a fault zone or geological contact.

The magnetic data is fairly noisy indicating locally varying magnetic content of the rocks. The magnetic coverage is not sufficient to determine any structures.



LEGEND:

Pel-88-B-D-95 — 3/1 — SOIL SAMPLE LOCATION – 1988
Au (p.p.b.)

5-6737 — SOIL SAMPLE LOCATION – 1983
(LONESTAR)

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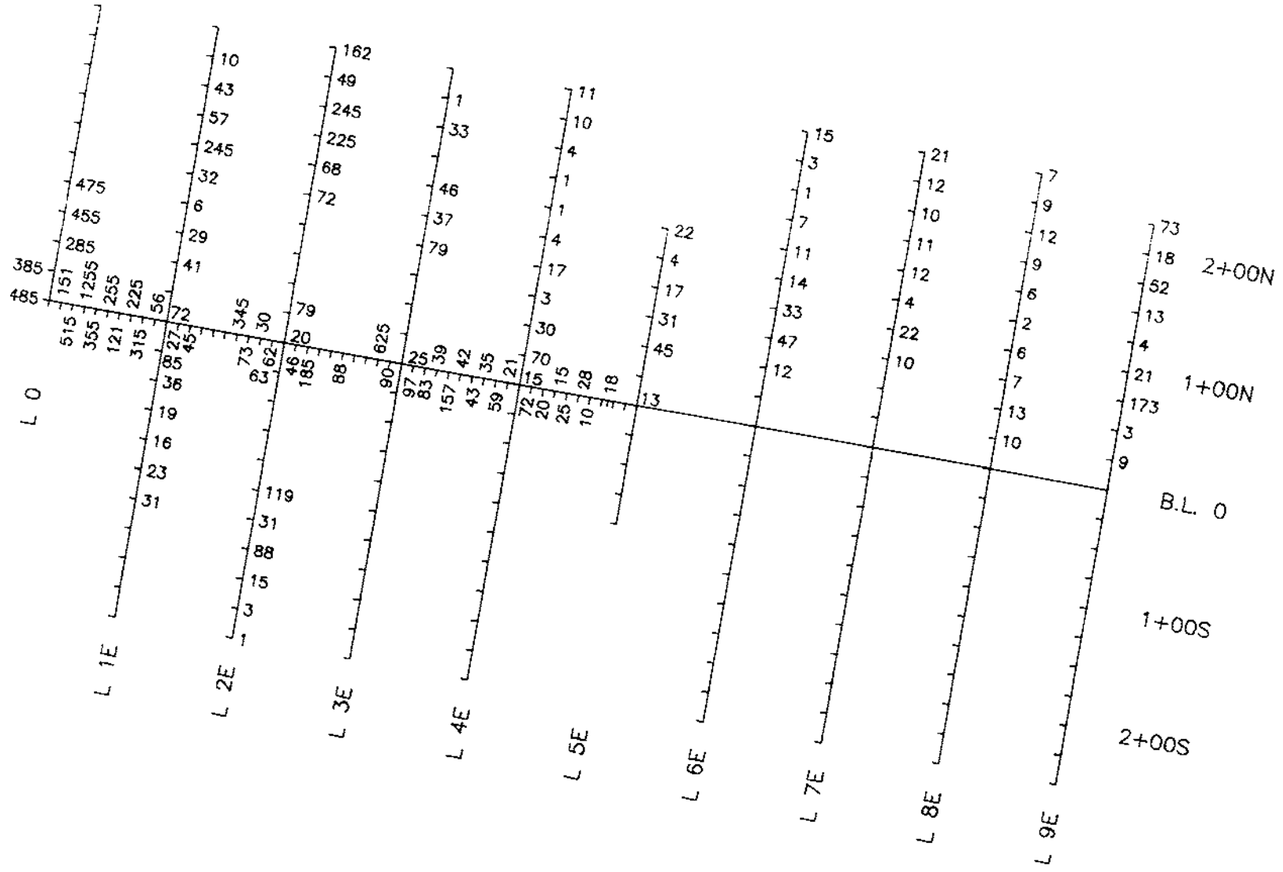
FIGURE 10 — NTS: 104 B/10

RIDGE GRID GEOCHEMISTRY

metres 100 0 100 200 metres

SCALE: 1:5000	GEOLOGIST: D. GORC
DATE: JUNE 1989	DRAWN BY: S. WOOLVERTON



LEGEND:

3/1 SOIL SAMPLE LOCATION – 1988
Au (p.p.b.)

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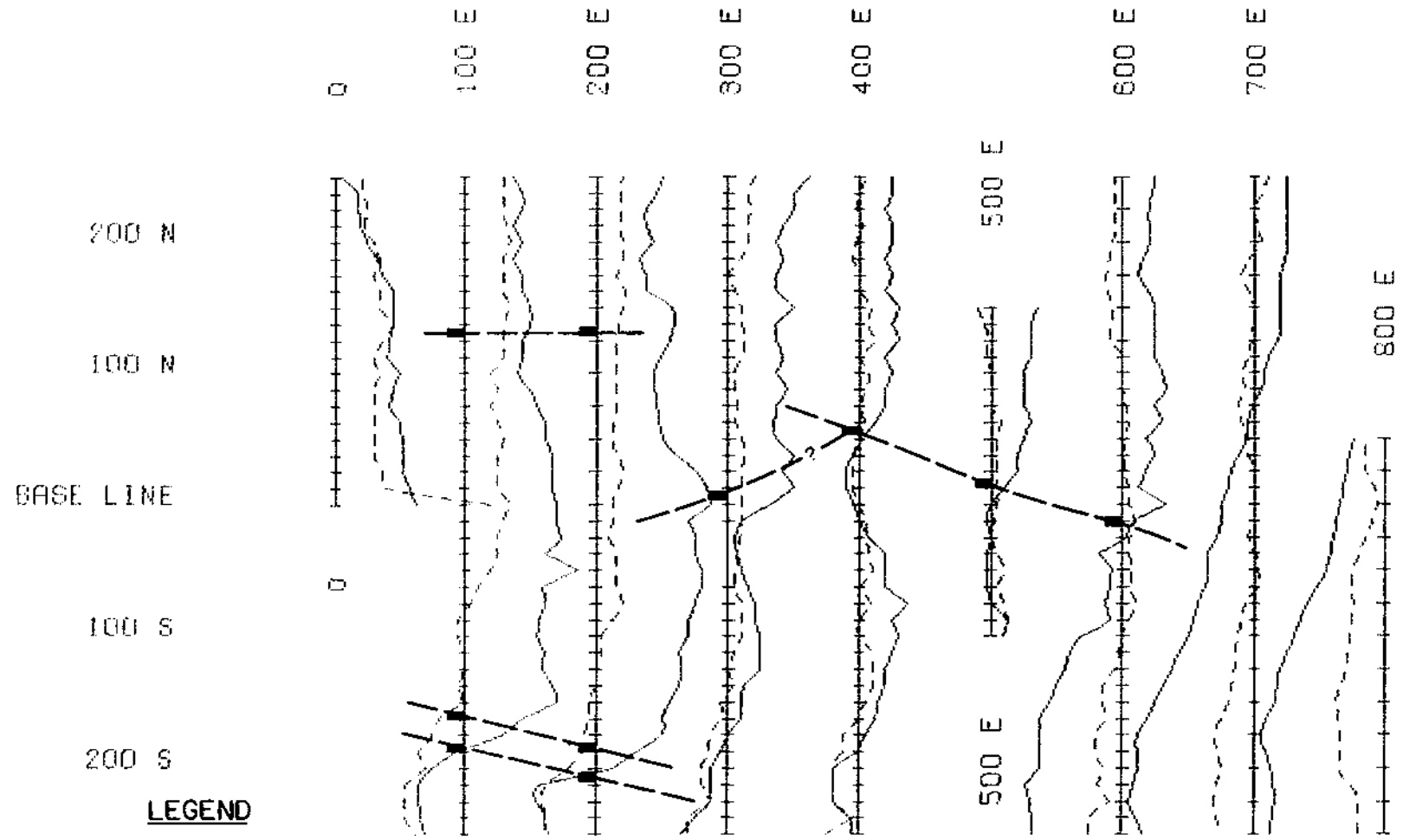
FIGURE 11 NTS: 104 B/10

PELICAN GRID GEOCHEMISTRY

metres 100 0 100 200 metres

SCALE: 1:5000	GEOLOGIST: D. GORC
DATE: JUNE 1989	DRAWN BY: S. WOOLVERTON



LEGEND

- CONDUCTOR
- CONDUCTOR TRACE
- IN-PHASE (BASE VALUE - 20%)
- QUADRATURE (BASE VALUE 0%)

PROFILE SCALE: 1 cm ~ 20 %

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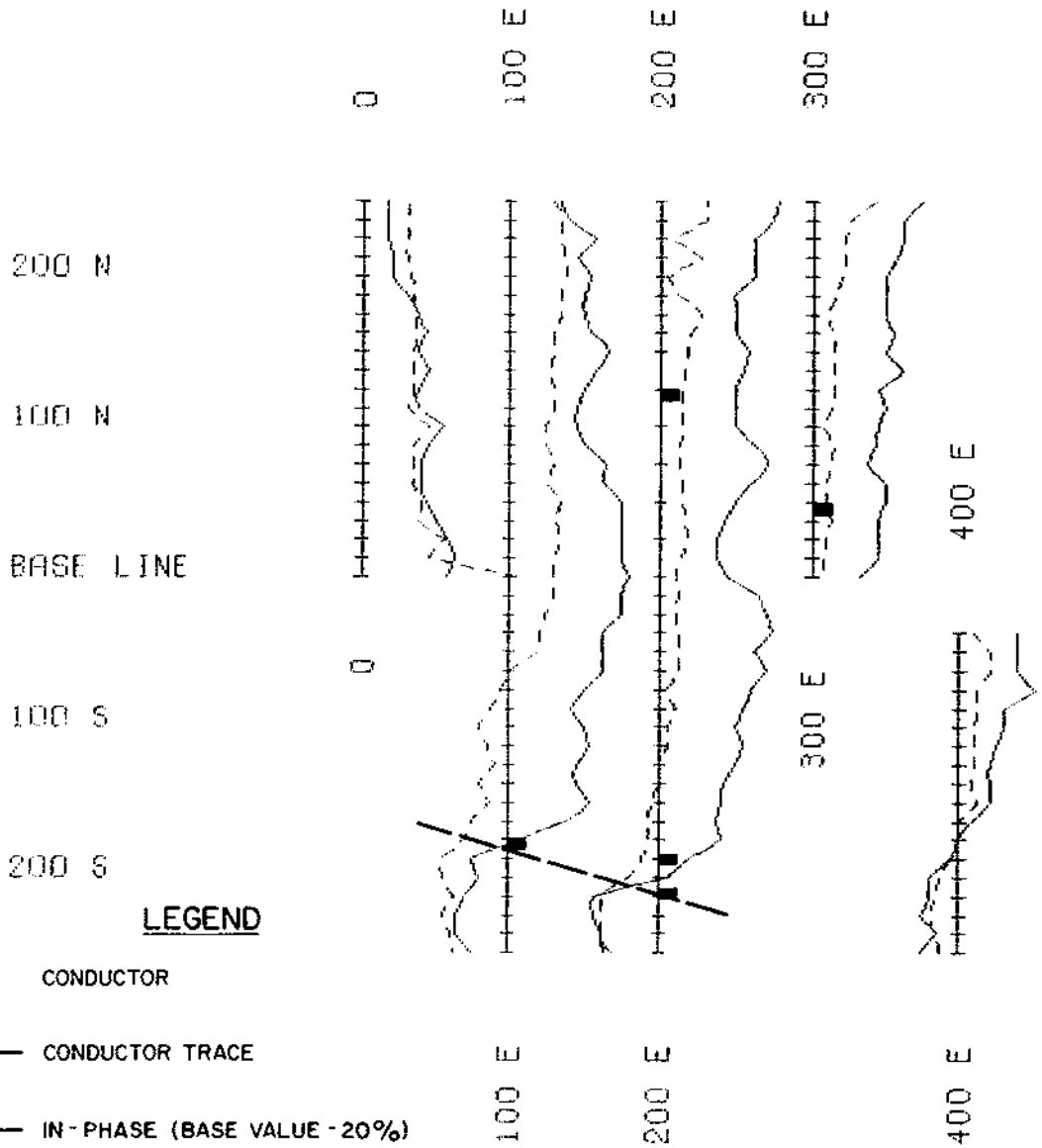
FIGURE 12 N.T.S. 104B/10W

PELICAN GRID
VLF - EM SURVEY
NAA (CUTLER, Ma.) PROFILES

m 0 100 200 300 m

SCALE:	1:5,000	GEOLOGIST:	D. GORC
DATE:	JUNE, 1989	DRAWN BY:	J. CORKUM



200 N
100 N
BASE LINE
100 S
200 S

LEGEND

- CONDUCTOR
- CONDUCTOR TRACE
- IN-PHASE (BASE VALUE -20%)
- QUADRATURE (BASE VALUE 0 %)

PROFILE SCALE: 1 cm ~ 20 %

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FIGURE 13 N.T.S. 104B/10W

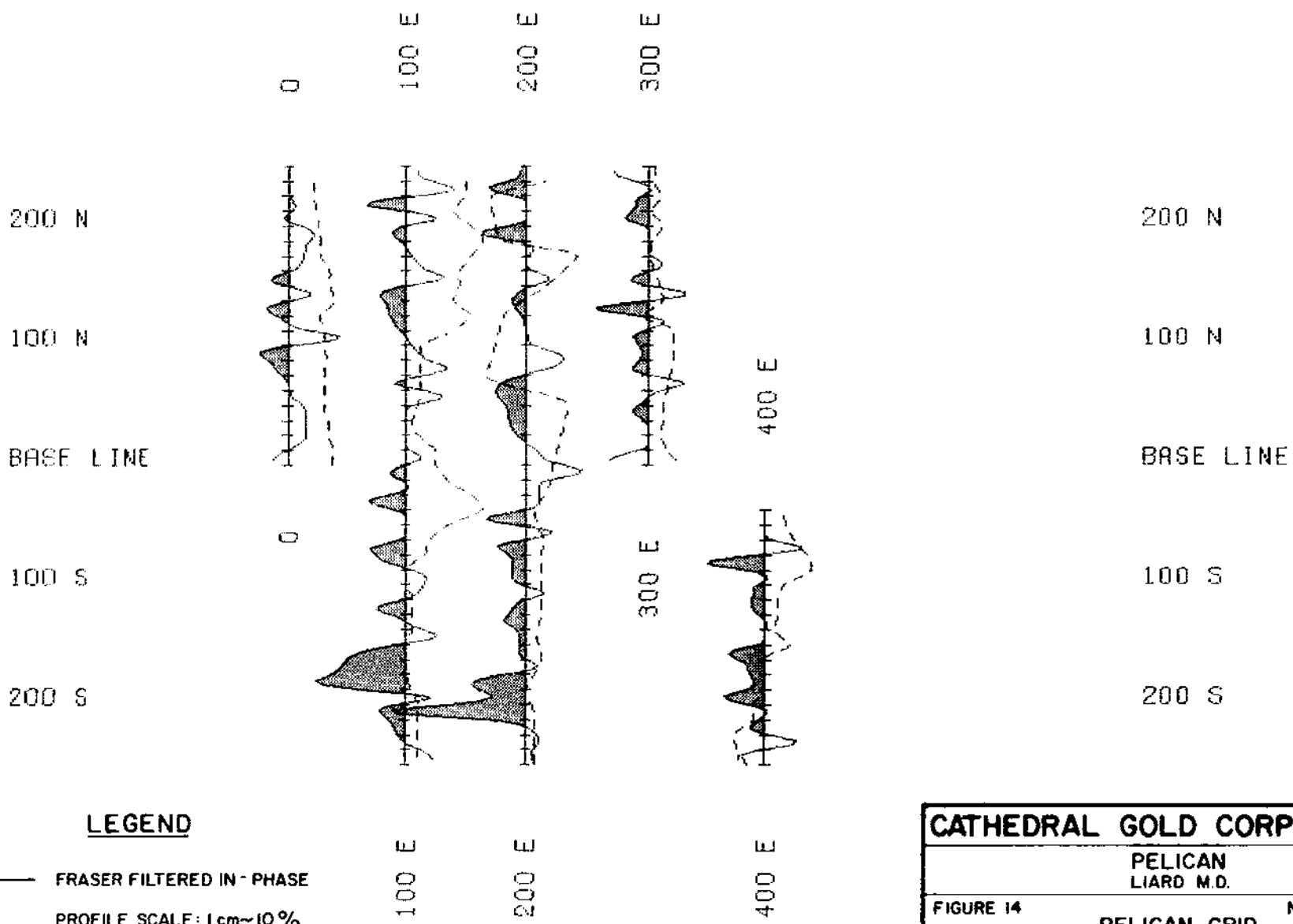
PELICAN GRID

VLF - EM SURVEY

NPM (LUALUALAI, Ha.) PROFILES

m 0 100 200 300 m

SCALE:	1:5,000	GEOLOGIST:	D. GORC
DATE	JUNE, 1989	DRAWN BY:	J. CORKUM



LEGEND

——— FRASER FILTERED IN-PHASE
PROFILE SCALE: 1 cm ~ 10 %

------- FORESIGHT (% SLOPE)
PROFILE SCALE: 1 cm ~ 100 %

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PELICAN
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FIGURE 14 N.T.S. 104B/10W

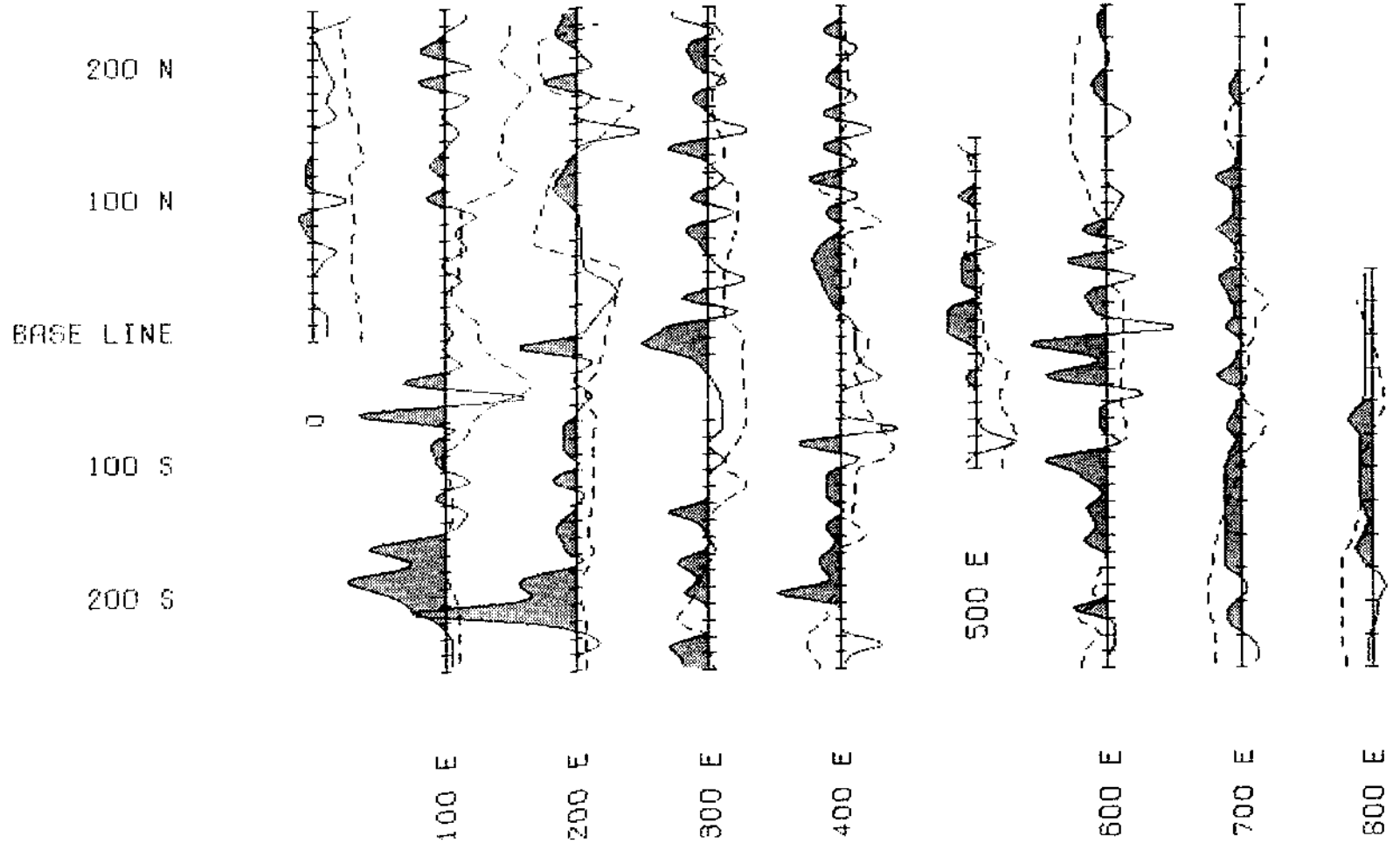
PELICAN GRID

VLF - EM SURVEY

NPM (LUALUALAI, Ha.) FRASER FILTER
% SLOPE PROFILES

m 0 100 200 300 m

SCALE:	1:5,000	GEOLOGIST:	D. GORC
DATE:	JUNE, 1989	DRAWN BY:	J. CORKUM



LEGEND

——— FRASER FILTERED IN - PHASE
PROFILE SCALE: 1 cm ~ 10 %

------ FORESIGHT (% SLOPE)
PROFILE SCALE: 1 cm ~ 100 %

CATHEDRAL GOLD CORPORATION

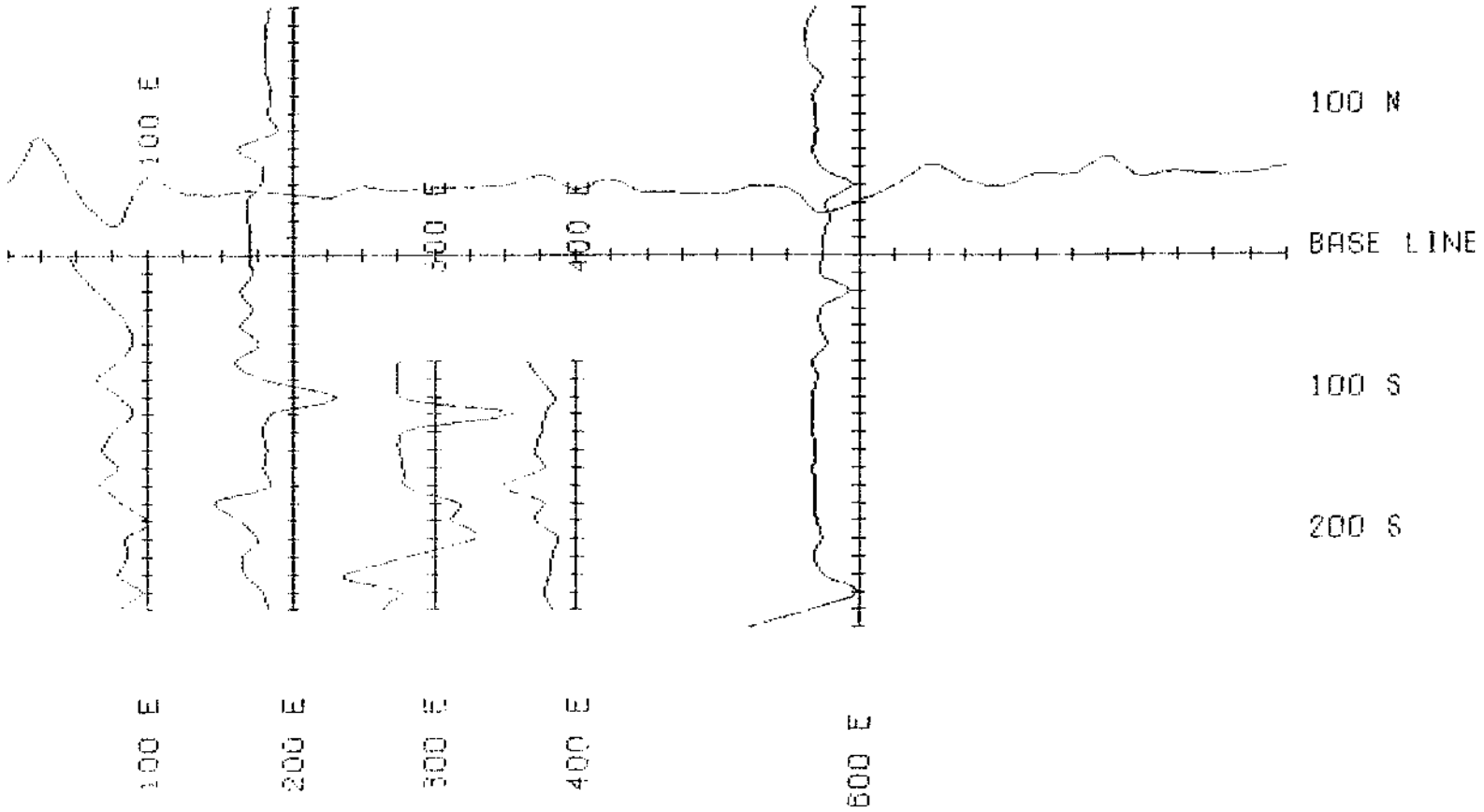
PELICAN
LIARD M.D.

FIGURE 15 N.T.S. 104B/10W

PELICAN GRID
VLF - EM SURVEY
NAA (CUTLER, Me.) FRASER FILTER
% SLOPE PROFILES

m 0 100 200 300 m

SCALE:	1:5,000	GEOLOGIST:	D. GORC
DATE:	JUNE, 1989	DRAWN BY:	J. CORKUM



PROFILE SCALE: 1 cm ~ 250 nT

BASE VALUE: 57,500 nT

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FIGURE 16 N.T.S. 104B/10W

PELICAN GRID
MAGNETICS - PROFILES

m 0 100 200 300 m

SCALE:	1:5,000	GEOLOGIST:	D. GORC
DATE	JUNE, 1989	DRAWN BY	J. CORKUM

10.0 CONCLUSIONS

(1) Narrow mineralized shears at the top of the Pelican cliff are high in zinc, lead and silver and low in gold. Talus at the bottom of the cliff is high in copper, silver and up to 2895 ppb gold suggesting that a separate gold-copper mineralized zone exists in the Pelican cliff. A strong gold soil anomaly was confirmed north of the Pelican cliff. Further work is recommended on the Pelican cliff. This work may require climbing expertise to access the steep areas not previously sampled.

(2) A float sample of milky white quartz with 50% grey coarse euhedral pyrite, found near the north end of the Snow zone ridge, assayed 11025 ppb gold (0.32 oz/ton). Narrow quartz-pyrite filled fractures in outcrop nearby although barren in gold have a similar appearance. Further prospecting in this area is recommended.

(3) Further prospecting is also recommended in the Southeast area where a 0.5m wide quartz vein assayed 6205 ppb gold.

(4) Two areas of previously unmapped pyrite mineralization, the NG1 and NG2 were found. Both zones consist of disseminated pyrite in banded siltstone along a 120° trending shear and massive pyrite associated with the northwesterly shear and an orthoclase porphyry plug. The NG1 and NG2 zones are located 1.2 km apart and are likely on the same northwesterly trending structure. Gold assays from these zones were low however, further work is needed to investigate other gossanous areas near NG2 and Sericite ridge 400m northwest of NG2.

11.0 STATEMENT OF QUALIFICATIONS

I. R. MICHAEL JONES, Geologist, residing at 254 Seaton Street, Toronto, Ontario, hereby certify that:

1. I received a B.A.Sc., Geological Engineering degree from University of Toronto, Ontario in June 1985.

2. Since 1985 I have worked in mineral exploration in British Columbia, Ontario, Quebec, and the Yukon Territory.

3. I am presently a self-employed geologist and have been employed full-time based on Toronto since 1985.

I, DENNIS M. GORC, residing at 406 - 1176 Falcon Drive in Coquitlam, Vancouver, British Columbia, V6E 2N8 state that:

(1) I graduated from Queen's University, Kingston, Ontario with a B.Sc. (Eng.) degree in mineral exploration in May 1976.

(2) Since 1976, I have supervised mineral exploration programs in British Columbia, N.W.T., Manitoba and Ontario.

(3) I am presently employed as a geologist with Imperial Metals Corporation, Suite 800, 601 West Hastings Street in Vancouver, British Columbia.

Dated this 29th day of July, 1989, in the City of Vancouver, Province of British Columbia.

DENNIS M. GORC
IMPERIAL METALS CORPORATION

Vancouver, British Columbia

12.0 REFERENCES

Bending, D.A., 1984: 1983 Summary Report of the Snippaker Creek Area, British Columbia; Unpublished Report for Lonestar Resources Ltd.

Butterworth, B.P., Petersen, D.B., 1987: Geological and Geochemical Report of the Gossan 6, 9-13, 21 Claim Group; Western Canadian Mining Corporation Report #988

Butterworth, B.P., Petersen, D.B., 1987b: Geological and Geochemical Report of the Gossan 14-17, 23, 30 Claim Group; Western Canadian Mining Corporation Report #989

Butterworth, B.P., Petersen, D.B., 1987c: Geological and Geochemical Report of the Gossan 1-4, 7 Group, Gossan 5, 8, 22 Group and Gossan 25 Claim; Western Canadian Mining Corporation Report #991

Grove, E.W., 1971: Geology and Mineral Deposits of the Stewart Area, British Columbia. B.C. Department of Mines and Petroleum Resources, Bulletin No. 58

Grove, E.W., 1986: Geology and Mineral Deposits of the Unuk River - Salmon River Anyox Area; B.C., Ministry of Energy, Mines and Petroleum Resources, Bulletin No. 63

Kerr, F.A., 1948: Lower Stikine and Western Iskut River Areas, British Columbia, Geology Survey, Canadian Memoir 246

Meyers, R.E., 1986: 1986 Geochemical Sampling and Reconnaissance Mapping Gossan 1-4-7 Claim Group, Gossan 14-17, 23 Claim Group; Western Canadian Mining (WCM) Ltd. Report #995

Petersen, D.B., Woodcock, J.R., Gorc, D., 1985: Geologic, Trenching and Diamond Drilling Report on the Gossan II Claim; Brinco Mining Limited Report #840

A P P E N D I X I

ROCK SAMPLE DESCRIPTIONS

PEL-88-J-1 to 119

ROCK SAMPLE LIST

PELICAN PROJECT

September 9, 1988

Sample	Zone, Area	UTM Coordinates E N	Description
Pel-88-J-1	Pelican	386180E 6270250N	- sil. green volcanic, gossanous, up to 5% disseminated pyrite, albitized, milky white alteration
2	Pelican	386180 6270250	- same as #1, top of Pelican cliff
3	Pelican	386180 6270250	- similar to 1 & 2, 3% disseminated pyrite
4	Pelican	386180 6270250	- rubble, 15% pyrite, similar to above
5	Pelican	386250 6270220	- silicified volcanic unit with 1-5cm quartz vein, 2% pyrite
6	Pelican	386400 6270380	- boulder, crumbly, 15% disseminated pyrite, well foliated chloritic green volcanic, minor 1-2mm quartz veinlets, light grey fresh colour
7	Pelican	386530 6270470	- sil. green volcanic with 10% disseminated pyrite, near contact with diorite 10m away
8	Pelican	386340 6270640	- granodiorite, strongly jointed 125/55S, broken, crumbly, no fresh surfaces near steep edge of creek
9	Pelican	386840 6270230	- sil. green volcanic gossanous weathering, 1-3% disseminated pyrite
10	Pelican	386740 6270000	- diorite with pyrite along fracture surfaces, 3% pyrite overall

Sample	Zone, Area	UTM Coordinates E	N	Description
11	Pelican	386700	6270010	- green volcanic with dendritic seams of pyrite up to 5mm wide, overall 15% pyrite
12	Pelican	386720	6270060	- sil. green volcanic limonite staining, flat dipping shears, 5% disseminated pyrite
13	Pelican	386330	6270170	- schistose banded siltstone 190°, 1% disseminated pyrite
14	Pelican	386380	6270300	- sil. green volcanic with abundant fine mm scale quartz veinlets, 3-5% disseminated pyrite, bleached light grey
15	Pelican	386530	6270320	- light green diorite, siliceous, up to 3% pyrite
16	Pelican	386530	6270320	- very sil. diorite, bleached white, sugary crumbly texture, <1% disseminated pyrite
17	Pelican	386630	6270340	- diorite finely feldspar porphyritic, 3% disseminated pyrite, minor shearing 139/65E
18	Pelican	386630	6270340	- talus grab, siliceous bleached, green volcanic, 4% disseminated pyrite
19	Snow	387560	6270410	- very sil. green volcanic, 4% disseminated pyrite, may be boulder from above
20	Snow	387680	6270430	- $10m^2$ area of gossan, green volcanic with siliceous seams and 3cm solid pyrite seams up to 1m in length
21	Snow	387680	6270420	- same outcrop as #20, quartz veins irregular and narrow with 10-25% pyrite
22	Snow	387740	6270300	- rusty area, green volcanic silicified with irregular narrrow quartz veins containing 3-5% pyrite
23	Snow	387740	6270300	- same as #22

Sample	Zone, Area	UTM Coordinates E	N	Description
24	Snow	387760	6270170	- possible scarn mineralization at edge of quart diorite intrusion, 2-5% pyrite adjacent to 345° shear
25	Snow	387730	6270170	- same as #24
26	Snow	387780	6270090	- same as #24
27	Snow	387480	6270440	- rounded float at bottom of slope leading to north end of Snow zone, milky white quartz vein with 50% coarse pyrite
28	Pelican	386040	6270080	- moderate siliceous green volcanic, 3% disseminated pyrite
29	Pelican	385940	6270310	- strongly silicified, green volcanic, 1-2% pyrite
30	Pelican	385940	6270350	- moderate siliceous volcanic, 1-2% disseminated pyrite
31	Pelican	386070	6270440	- talus cobble, quartz vein, 5-8% pyrite
32	Pelican	386140	6270460	- talus at foot of cliff, powder blue weathered colour (hydrozincite?), 30% chalcopyrite in foliated dark green mafic volcanic(?)
33	Pelican	386140	6270460	- talus ($10cm^3$) massive 4mm grained pyrite adjacent to cliff
34	Pelican	386140	6270460	- talus at bottom of cliff, quartz vein with 70% pyrite with blue and green stains (hydrozincite and malachite?)
35	Pelican	386140	6270460	- talus, milky white quartz vein, 10% disseminated pyrite.
36	Pelican	386640	6270400	- strongly jointed (86/66S) siltstone adjacent to diorite to south, 3% disseminated pyrite

Sample	Zone, Area	UTM Coordinates E	N	Description
37	E. Pelican	386640	6270400	- strongly jointed green volcanic, 1-2% disseminated pyrite, jointing at 100/60S
38	E. Pelican	386670	6270470	- same as #37
39	E. Pelican	386670	6270470	- same as #37
40	N. Lake	385930	6269500	- siliceous weakly brecciated diorite, 1% pyrite
41	Lake	385750	6269530	- strongly siliceous, 3-5% disseminated pyrite and along fracture seams strong fracturing 004/80E
42	Lake	385750	6269440	- strongly siliceous diorite, up to 10% pyrite in seams and disseminated
43	Lake	385750	6269440	- rusty weathered diorite, weakly feldspar porphyritic, phenocrysts up to 4mm, fractures 032/85W
44	Lake	385980	6269450	- diorite with fine fractures siliceous, trace pyrite
45	Lake	385940	6269440	- rusty weathering granodiorite
46	Lake	385930	6269440	- very silicified, tan coloured weathering, microfractured diorite(?)
47	Lake	386130	6269580	- weak siliceous banded siltstone, 2-3% disseminated pyrite, rusty weathering
48	Lake	386110	6269520	- banded and siltstone in contact with diorite, very siliceous, 3-4% disseminated pyrite
49	Lake	386000	6269340	- near orthoclase porphyry to north, banded siltstone, 1-3% pyrite
50	Lake	386000	6269430	- fractured and weakly silicified granodiorite, occasional orthoclase phenocryst, 1-2% disseminated pyrite

Sample	Zone, Area	UTM Coordinates E	N	Description
51	Lake	386030	6269390	- banded siltstone, bleached light grey, up to 8% disseminated pyrite, overall 4% pyrite
52	Lake	386030	6269390	- crumbly schistose dark grey rock with 60% pyrite, only over $10cm^3$
53	Lake	385780	6268780	- quartz vein between orthoclase porphyry to east and green volcanic to west, 1-2m wide 156/75W
54	Nee(?)	385630	6268550	- very siliceous, trace pyrite
55	Nee(?)	385640	6268540	- 10m away #54, as above
56	S. Lake	385640	6268450	- close to Nee boundary, N-S shear quartz-carbonate vein 1m wide
57	S. Lake	385640	6268450	- east side of quartz vein in #56, sheared rock with abundant quartz carbonate veins <1m wide over 7m total width
58	S. Lake	385640	6268450	- east side of outcrop for #57
59	S. Lake	385660	6268450	- flat sheared schistose rock with carbonate-quartz veins, 1-2% disseminated pyrite
60	S. Lake	385660	6268450	- east side of outcrop for #59, up to 5% pyrite
61	S. Lake	385700	6268320	- very silicified, up to 4% pyrite
62	S. Lake	385940	6268240	- top of steep cliff, green volcanic weathered gossanous, relatively unaltered, 1% disseminated pyrite
63	S. Lake	385950	6268230	- same as #62
64	S. Lake	386300	6269090	- edge of east cliff of Lake ridge, quartz vein at least 4m in width, 2-3% disseminated pyrite

Sample	Zone, Area	UTM Coordinates E	N	Description
65	S. Lake	386300	6269090	- same as #64
66	Lake (NG1 Zone)	386170	6269340	- orthoclase porphyry, light grey, silicified with seams 0.5cm of pyrite
67	Lake (NG1 Zone)	386170	6269340	- medium green with occasional 1cm white orthoclase phenocrysts seams c/cm massive pyrite, 5% pyrite overall
68	Lake (NG1 Zone)	386170	6269340	- banded siltstone right at contact with orthoclase porphyry, up to 30% pyrite in bleached silicified epidotized rock over $2m^2$ area
69	Lake (NG1 Zone)	386170	6269340	- 3cm wide pyrite seam in 120° shear
70	Lake (NG1 Zone)	386180	6269300	- silicified fracture along 120 trend, gossanous outcrop with cliff
71	Lake (NG1 Zone)	386180	6269300	- right on gouge shear material at 140/85E, 20cm wide
72	Lake (NG1 Zone)	386180	6269990	- very siliceous, light grey, 2-3% disseminated pyrite, banded siltstone(?)
73		387260	6269990	- slightly rusty weathering, green volcanic, 1-2% pyrite
74		387610	6270000	- up to 5% very fine pyrite in light grey siliceous fine grained banded siltstone(?)
75	Snow	387740	6269980	- quartz vein in banded siltstone with 1-2% pyrite, weathered gossanous, 1-2m vein
76	Snow	387740	6269980	- previously siliceous green volcanic with 3% disseminated pyrite, unaltered dark green 5mm fragments surrounded in siliceous lighter colour

Sample	Zone, Area	UTM Coordinates E	N	Description
77	Snow	387740	6269980	- siliceous banded siltstone weathers to an obvious gossan cliff, 1-2% pyrite, moderate shear at 150°
78	Snow	387740	6269980	- quartz vein at least 2m wide, trace pyrite strikes 150/50W
79	Snow	387810	6269890	- strongly sheared and siliceous banded siltstone approximately 150 shear, trace pyrite
80	Snow	387820	6269850	- moderate siliceous, trace pyrite, siltstone
81		387040	6269250	- very silicified siltstone, 4% disseminated pyrite on east creek at 1100m elevation
82		387040	6269250	- quartz vein, 2% pyrite, 0.5m wide at 81, location 050/80S
83		386950	6269220	- very silicified, 4% pyrite, square shaped light coloured silicified cm scale areas, possibly silicified orthoclase porphyry
84	NG2	385210	6269810	- chip over 50cm wide, up to 20% pyrite average 8% pyrite, pyritizied shear at 125/48S, cm scale, banding strongly foliated, green volcanic(?) chloritic
85	NG2	385210	6269810	- milky white at least 1m wide, quartz vein adjacent to shear in #84, vuggy with chloritic wall rock, cm inclusions
86	NG2	385210	6269810	- chip 1m over face above sample #84 including 1cm solid pyrite seam, cherty pyritized banded siltstone, 5% pyrite average
87	NG2	385190	6269820	- silicified sealed fault gouge and chloritic active gouge on 120/50S shear, 5% pyrite overall

Sample	Zone, Area	UTM Coordinates E	N	Description
88	NG2	385190	6269820	- talus fresh from cliff above (see #91-94 for source), 40-50% massive pyrite in light green crumbly matrix
89	NG2	385190	6269820	- talus gravel and sand fracture all along the shear below the cliff
90	NG2	385190	6269820	- quartz vein 1m away from vein previously sampled nearby, 2-3% disseminated pyrite, wall rock adjacent to this vein contains 8% pyrite and included in sample
91	NG2	385220	6269780	- talus from above, 30% pyrite, light green crumbly
91A	NG2	385220	6269780	- zone above 120 sheared cliff, 1m by 0.5m massive pyrite in silicified banded siltstone, 70% pyrite
92	NG2	385220	6269980	- 2.5m away from #91, similar bleb of massive pyrite
93	NG2	385220	6269780	- 3m from #92 sheared gouge with 30% pyrite, light green
94	NG2	385270	6269780	- 1.0 x 1.5m area 90-100% pyrite 3m away from #93
95	NG2	386340	6269280	- talus boulder, silicified light grey, 3-4% fine pyrite
96	NG2	386340	6269280	- talus boulder, same as #95
97	NG2	386340	6269280	- 1m from #96, same as
98	NG2	386350	6269270	- boulder at 400m on soil line, silicified epidotized, 3-5% disseminated pyrite mostly along fractures and silicified seams
99	S. Lake	386350	6269270	- boulder same as #98, at 1250m elevation 390m along soil line
100	S. Lake	385790	6268300	- riddled with quartz-carbonate talus beneath cliff of the same, sheared complex

Sample	Zone, Area	UTM Coordinates E	N	Description
101	S. Lake	385720	6268220	- same as #100
102	Pins	389140	6266390	- float light green altered epidotized and silicified with 10% pyrite
103	Pins	388700	6265720	- crumbly weakly silicified diorite <1% pyrite
104	Pins	388610	6265630	- quartz-iron carbonate veins, commonly veins contorted
105	Pins	388480	626580	- carbonate veins in rusty argillite
106	Pins	388570	6265810	- silicified green volcanic, trace pyrite
107	Pins	389170	6266080	- very silicified, banded siltstone rubble, 3-4% disseminated pyrite
108	Pins	388720	6265780	- one cobble in talus with .5cm bleb of fine sphalerite in argillite
109	Pins	389180	6266090	- silicified green volcanic adjacent to orthoclase porphyry, 3% disseminated pyrite
110	Pins	389070	626260	- green volcanic with 3% disseminated pyrite, relatively unaltered
111	Pins	388350	6265550	- silicified, flat sheared green volcanic, 1% pyrite
112	Pins	388430	6265670	- talus float, quartz-carbonate with trace sphalerite and galena
113	Pins	388490	6265660	- 0.5m wide zone, 30% quartz-carbonate veins 1-5cm wide in black argillite, trace galena and sphalerite, (outcrop)
114	Pins	388600	6265780	- talus rusty quartz vein with 3% galena disseminated

Sample	Zone, Area	UTM Coordinates E	N	Description
115	Pins	389800	6266350	- rusty outcrop near 1cm showing, green volcanic, relatively unaltered with 1-2% pyrite
116	Pins	389800	6266360	- silicified pyritic and minor chalcopyrite, 1%
117	Pins	390770	6267280	- siliceous cherty banded siltstone, weathered, gossanous, 1-3% pyrite
118	Pins	391000	6267380	- banded siltstone, argillite, 3% very finely disseminated pyrite, talus from cliff above gossanous
119	Pins	39100	6267410	- same as #118

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A P P E N D I X II

ROCK SAMPLE DESCRIPTIONS

PEL-88-D-1 to 113

ROCK SAMPLE LIST

PELICAN PROJECT

September 9, 1988

Sample	Zone, Area	UTM Coordinates E N	Description
Pel-88-D-1	Pelican	386180E 6270250N	- quartz vein with 3-5% vuggs (3-10mm) crustiform quartz crystals plus limonite filling. 3-5% pyrite, 10% epidote, 10% chlorite in selvage (wall rock?), 1-3mm wide zone with minor quartz stringers
2	Pelican	386180E 6270250N	- same, 3m down (north) shear
3	Pelican	386180E 6270250N	- quartz vein, 40% vuggs, 15-20mm wide lined with chlorite, wad, limonite, slightly gossanous
4	Pelican	386320E 6270220N	- float of quartz vein, up to 30cm thick, 20% vuggs, crustiform quartz crystals with 3-5% pyrite up to 15mm crystals
5	Pelican	386530E 6270450N	- in green volcanic (chloritized fine graned), 12-20cm quartz vein with 5% pyrite, 20% epidote in vuggy quartz, green volcanic silicified
6	Pelican	386530E 6270450N	- vuggy green volcanic, silicified, fractured, 10-15% epidote, 5-20% vuggs, 15-20% pyrite
7	Pelican	386630E 6270430N	- silicified green rock, altered to epidote and chlorite, 15% pyrite, 20% quartz
8	Pelican	386850E 6270400N	- clot of epidote and quartz plus 10% pyrite in orthoclase porphyry

Sample	Zone, Area	UTM Coordinates E	N	Description
9	Pelican	386860E	6270300N	- in green volcanic unit, silicified and 3-5% pyrite clot 20 x 4cm of 70% pyrite with epidote and quartz
10	Pelican	386900E	6270160N	- same as #9
11	SE of Camp	387140E	626930N	- sheared gossanous silicified green volcanic, no epidote, 20-25% pyrite, chlorite
12	Pelican	386340E	627160N	- sheared fine grained chlorite rich green volcanic with 2% finely disseminated (<.5mm) pyrite altered to clays and talc.
13	Pelican	386530E	6270300N	- sheared green volcanic with 2% pyrite
14	Pelican	386530E	6270300N	- silicified with sheared fabric, green volcanic, 3-5% pyrite, limonite on fractures
15	Pelican	386980E	6270360N	- silicified, chlorite and epidote alteration, diorite with 5% pyrite blebs and disseminations up to 1mm
16	Pelican	386930E	6270430N	- silicified diorite, slightly gossanous with <2% pyrite concentrated on fractures, blocky fracturing
17	Pelican	386870E	6270600N	- diorite, fractured with 3-4% pyrite, slightly silicified, limonite stained fractured surfaces
18	Pelican	386900E	6270640N	- quartz vein in banded siltstone, 10-20% vuggs with wad filling, <1% pyrite in quartz 20-30cm variable width
19	Snow	387110E	6270480N	- green volcanic heavily limonite stained and fractured 10-15%, 1-2mm vuggs, 3-5% pyrite on fresh surface

Sample	Zone, Area	UTM Coordinates E N	Description
20	Snow	387370E 6270430N	- float of anchorite/quartz vein with crustiform quartz crystals, <1% pyrite in veins, 3% pyrite in altered wall rock
21	Snow	387550E 6270370N	- gossanous green volcanic, slightly silicified, with up to 15% finely disseminated pyrite
22	Snow	387550E 6270350N	- banded siltstone, limonate stained, slightly silicified with 5-10%, .5-1mm disseminated pyrite
23	Snow	387580E 6270320N	- quartz vein in gossanous banded siltstone, 3-5cm, 3-5% vuggs, 2% pyrite, 3% chlorite
24	Snow	387590E 6270290N	- pod of silicified banded siltstone with 4-5% pyrite, 15-20cm, heavy limonite stains
25	Snow	387640E 6270250N	- float of siltstone, silicified with 1% chlorite blebs (2mm), 2-4% pyrite, 2% vuggs with hemonite stains
26	Snow	387680E 6270230N	- in banded siltstone, very vuggy and weathered rock, gossanous
27	Snow	387780E 6270160N	- green volcanic, highly silicified, 5-6% pyrite, epidote
28	Pelican	386990E 6270240N	- silicified green volcanics, limonite stained, 5-10% vuggs (<.5mm), 3-5% pyrite locally concentrated and as disseminations
29	Pelican	387040E 6270300N	- quartz vein or pod, 30% chlorite, 2-3% pyrite, 5-10%, 3-4mm vuggs, 10-20cm width
30	Pelican	387110E 6270420N	- float of silicified and microveined green volcanic, in veinlets 5% pyrite and 15% galena as disseminations and blebs up to 2mm

Sample	Zone, Area	UTM Coordinates E N	Description
31	Pelican	387110E 6270042ON	- banded siltstone with <1% Malachite as fracture coatings, 5-10% epidote blebs and 1% pyrite as 1-2mm blebs
32	Pelican	387120E 6270400N	- float of quartz vein in silicified green volcanic with minor Covelite, very vuggy and limonite stained vugs
33	Pelican	387120E 6270400N	- green volcanic, limonite stained, 15-20% epidote, 5-10% galena in 5-10mm blebs, 3% pyrite in .5-1mm disseminated, in fracture in rock (shear?)
34	Pelican	387120E 6270400N	- banded siltstone with 2% Malachite, 2-3% pyrite, 3-20mm quartz stringer, silicified
35	Pelican	387120E 6270400N	- green volcanic, slightly foliated with 20% epidote as stringers and 10% pyrite as stringers
36	Pelican	387120E 6270400N	- very foliated green volcanic with bands of 10% galena, 2% pyrite in chlorite and epidote and quartz bands
37	Pelican	387120E 6270400N	- silicified green volcanic, slightly foliated with bands of 7% galena, 2% pyrite, in chlorite, epidote and quartz
38	Pelican	387520E 6270320N	- in green volcanics, silicified contact with orthoclase porphyry, 50cm wide, foliated and limonite stained
39	Lake	385710E 6269580N	- granodiorite, silicified with 5% epidote, 5-8% pyrite, with small pods of pyrite (50%) and epidote (50%), approximately 2cm x 10cm
40	Lake	385740E 6269550N	- silicified fine grained rock with epidote blebs 1-2mm, pyrite 3-7mm blebs, 2-3%. Diorite?

Sample	Zone, Area	UTM Coordinates E N	Description
41	Lake	385730E 6299490N	- siliceous light grey rock (diorite?), limonite stained, pyrite (1-2%), as disseminations and concentrated on fractures
42	Lake	385740E 6269480N	- same as #41 except slightly sheared fabric
43	Lake	385740E 6269480N	- same as #41, slightly sheared with limonite stains
44	Pelican	3865340E 6270650N	- quartz vein, 30% vuggs, 10% limonite, 5% biotite, 2% chlorite, minor Molybdenite?, 10-30cm wide
45	Lake	386030E 6269380N	- in banded siltstone in shear, highly silicified white grey rock with 3-5% pyrite
46	Lake	386140E 6269490N	- white grey rock (granodiorite?) with 5-7% pyrite, minor sericite, limonite stained
47	Lake	386160E 6269480N	- fine grained volcanic, very silicified, grey, 15-20% epidote blebs, 3-5% pyrite, limonite stained, at contact with granodiorite unit
48	Lake	385950E 6269320N	- banded siltstone, fine grained, dark grey, blocky fracture, limonite stained, near contact with orthoclase porphyry (5m)
49	Lake	385920E 6269320N	- banded siltstone, dark green, chlorite, 3-5% pyrite in 2-.5mm blebs and disseminated, limonite stained, near orthoclase porphyry
50	Lake	385880E 6269350N	- silicified orthoclase porphyry, limonite stained, 5-20% vuggy zones, 10% overall, epidote rich zones (5-10%)
51	Lake	385840E 6269410N	- silicified white grey rock, limonite stained with 1-2% <.5mm pyrite, disseminated, fine grained

Sample	Zone, Area	UTM Coordinates E N	Description
52	Lake	385840E 6269410N	- same as #51
53	Lake	385800E 6269410N	- same as #51
54	Lake	385720E 6269410N	- silicified fine grained white grey rock, limonite stained with 2-3% pyrite in veinlets 1mm wide, epidote and sericite minor
55	Lake	385730E 6269360N	- silicified granodiorite, sheared with limonite stains and blebs
56	Lake	385710E 6269340N	- same as #55
57	Lake	385700E 6269310N	- silicified orthoclase porphyry with limonite stains
58	Lake	385700E 6269310N	- orthoclase porphyry, silicified with 2-3% .1mm pyrite blebs
59	Lake	385810E 6268740N	- quartz vein in banded siltstone 15-20cm wide, vuggy (5-10%) with limonite filling, <1% chalcopyrite
60	Lake	386090E 628660N	- green rock, slightly silicified, fine grained, 20% chlorite, 5% vuggs with limonite stains, 3-5% pyrite, green volcanic?
61	Lake	386110E 6268710N	- float of 2-3cm quartz vein, wall rock fragments in vein, 5-15mm long, limonite stained, 1-2% 1-1.5mm pyrite blebs in wall rock inclusions, medium grained
62	Lake	386130E 6268760N	- float, near chloritized intrusive, 1-1.5cm quartz and epidote banded vein with 1-2% pyrite, Malachite and Azurite stains on fracture
63	Lake	386160E 6268810N	- silicified green rock with quartz veinlets 1-1.5cm wide, 3-5% vuggs, limonite stained
64	Lake	386180E 6268840N	- sheared diorite, limonite stained, chloritized, 10-15% vuggs, .1-1mm

Sample	Zone, Area	UTM Coordinates E N	Description
65	Lake	3861200E 6268980N	- Granodiorite limonite stained with 2-3% pyrite-diorite?
66	Lake	3861170E 6268980N	- same as #65
67	Lake	386180E 6269050N	- Granodiorite, silicified and limonite stained with 1-2% pyrite, fractured
68	Lake	386180E 6269360N	- banded siltstone, vuggy (3-5%) chlorite and silicified 2-5% finely disseminated pyrite, heavy limonite and sericite coatings, epidote and chlorite on fractures
69	Lake	386180E 6269360N	- white clay altered rock with limonite stains, highly fractured, orthoclase porphyry
70	Lake	386180E 6269300N	- light grey to green grey silicified banded siltstone, 2-3% pyrite, 1mm disseminated and on fractures, limonite stained
71	Lake	386200E 6269270N	- light grey rock, silicified, 5% quartz blebs, epidote on fractures, 3-5% pyrite
72	NG1	386200E 6269270N	- banded siltstone altered to chlorite and epidote with 3-5cm pods of pyrite and minor epidote net textured, 1-2mm pyrite blebs in wall rock, 3-5%
73	NG1	386200E 6269270N	- quartz vein with sheared wall rock (banded siltstone) as inclusions (30-40%), 2-3% chlorite in quartz, 2-3% pyrite in inclusions, up to 1% chalcopyrite as .5-2mm crystals in quartz
74	NG1	386220E 6269240N	- silicified banded siltstone, fractured with 5-10% pyrite
75	NG1	386220E 6269240N	- same as #74

Sample	Zone, Area	UTM Coordinates E	N	Description
76	NG1	386220E	6269220N	- same as #74 except sericite on fractures
77	NG1	386220E	6269180N	- silicified white rock with 3-5% pyrite as .5-1mm disseminations, 1-5mm blebs of epidote (3%), sericite in vuggs (2-3%), limonite stained
78	NG1	386280E	6269050N	- banded siltstone, silicified, 2-5% finely disseminated pyrite, light grey, limonite stained
79	Snow	387250E	6270020N	- orthoclase porphyry, silicified, 20% epidote, 2% fine vuggs, limonite stained, 3-5% pyrite
80	Snow	387640E	6269990N	- green volcanic, sheared, slightly silicified, 3% vuggs, minor pyrite, limonite stained
81	Snow	387720E	6269930N	- banded siltstone, green, fine grained with chlorite, 3-5mm quartz stringers, 20% vuggy, limonite stained zones (10-15% vuggs), 3-5% .5-1mm pyrite, disseminated
82	Snow	387720E	6269940N	- sheared quartz vein, approximately 1m thick, limonite stained, white, vuggy (3-5%), half of vein blocky fracture
83	Snow	387770E	6269930N	- green, silicified, fine grained rock, chlorite, limonite stains, fractured with quartz veinlets and blebs 3-10mm, 2-3% pyrite
84	Snow	387800E	6269920N	- fine grained green to grey rock, silicified with 1-3mm quartz veinlets, 3-5% pyrite in 4-10mm blebs or as fine disseminations, limonite stained, green volcanic?

Sample	Zone, Area	UTM Coordinates E	N	Description
85	Snow	387830E	6269900N	- quartz vein, limonite stained, 5-10% vuggs 5-2mm Hematite (1%) in vuggs
86	Snow	387880E	6269870N	- green, chloritized, fine grained rock with 2-3% pyrite, slightly silicified, at contact with granodiorite unit
87	NG2	385230E	6269760N	- banded green rock altered to chlorite and epidote, 2-3mm bands, slightly silicified, 15-20% pyrite, 3%, 3-5mm vuggs, zoned
88	NG2	385240E	6269740N	- green porphyritic rock (3-4mm phenocrysts) with epidote veinlets (3-15mm)
89	NG2	385250E	6269690N	- green chlorite altered rock with epidote blebs, 30 x 20cm pod of pyrite (30%) and quartz (35%) and vuggs (35%), 3-5mm
90	NG2	385250E	6269690N	- in highly gossanous, altered to epidote and chlorite green rock, 1m square pod of chlorite (10%) and epidote (30%) and pyrite (45%) in net textured silica (15%)
91	NG2	385210E	6269720N	- same as #90, with only 10-15% pyrite
92	NG2	385210E	6269790N	- same as #91
93	NG2	385140E	6269670N	- pyrite (15-20%) and epidote and silica, 1-3mm vuggs (10-15%) in banded siltstone
94	NG2	385140E	6269670N	- pod of 10-15% pyrite in epidote and chlorite and silica matrix, 30-40cm, in altered green, limonite stained rock (banded siltstone) near OP contact

Sample	Zone, Area	UTM Coordinates E	N	Description
95	NG2	385140E	6269670N	- sheared rock (banded siltstone), phylitic with chlorite and epidote, slightly gossanous
96	NG2	385360E	6270050N	- float sheared banded siltstone, grey green with quartz blebs, Malachite on fracture, 3-5% pyrite
97	SE of Lake	386510E	6269670N	- siliceous limonite stained rubble, minor shear fabric, white grey rock
98	SE of Lake	386520E	6269780N	- silicified, very fine grained white grey rock with 3-5% pyrite (disseminated <.5mm) limonite stain on fracture, in green volcanics
99	Pins	389160E	6265840N	- banded siltstone, fine grained to medium grained, silicified with 1-2% pyrite on fracture
100	Pins	388610E	6265610N	- float in argillite talus, 1-1.5cm calcite vein with <1% galena, <1% pyrite, as 1-1.5mm blebs
101	Pins	388610E	6265600N	- massive argillite with shear, 1-2% galena as fine disseminated, minor sphalerite?
102	Pins	388650E	6265560N	- same as #101
103	Pins	388640E	6265760N	- argillite, slightly silicified, limonite stained, mildly sheared, <1% pyrite, small quartz veinlets, 3-5% chlorite
104	Pins	388640E	6265820N	- gossanous light yellow, medium grained rock as float in argillite talus, 1-2% sphalerite, 1-2% pyrite, slightly silicified
105	Pins	389000E	6266020N	- float, silicified fine grained rock, chlorite, green with 8-10% pyrite as 1-3mm blebs

Sample	Zone, Area	UTM Coordinates E N	Description
106	Pins	389100E 6266100N	- sheared green volcanic, chlorite ? talc and serp., 3-5% pyrite on shear planes, limonite stains on weathered surface
107	Pins	389070E 6266250N	- silicified green volcanic, brecciated with quartz veinlets, 1-3% vuggs, 3% epidote, limonite stains on fracture, minor pyrite
108	Pins	388400E 6265600N	- float, quartz-carbonate vein with 20% limonite (anchorite)? 1-3cm
109	Pins	389330E 6266110N	- green fine grained rock, silicified, 1% vuggs, limonite stained, 2-3% epidote, 1-2% pyrite
110	Pins	389520E 6266190N	- green gossanous boulders of 50% pyrite, epidote and quartz, net texture
111	Pins	389820E 6266420N	- green silicified (GB?) rock with 45% epidote, 40% silicite, 2% pyrite, with vuggy, limonite rich zones, weathered
112	Pins	390650E 6267380N	- green fine grained rock, silicified, limonite stained, 5-8% pyrite as disseminations, concentrated on fracture, chlorite 8-15%, epidote 2%, green volcanic?
113	Pins	390740E 6267350N	- crumbly green rock, vuggy (5-10%), slightly silicified with epidote and chlorite, limonite stains on fracture, in fine grained green volcanic

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APPENDIX III

GEOCHEMICAL RESULTS

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1-P6 ROCK P7-P14 SOIL AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: SEP 16 1988 DATE REPORT MAILED: Sept 23/88 ASSAYER. C. Leong .D.TOYE OR C.LEONG, CERTIFIED B.C. ASSAYERS

CATHEDRAL GOLD CORP. PROJECT 8103 File # 88-4559 Page 1

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
PEL-88-D-1R	22	333	259	139	13.9	23	17	887	6.90	446	5	ND	3	110	1	10	8	43	.92	.125	3	40	.50	8	.22	3	.84	.01	.02	1	335
PEL-88-D-2R	7	85	296	129	3.9	27	14	2675	6.61	448	5	ND	2	140	1	8	2	63	1.51	.166	5	101	1.31	3	.19	2	1.71	.01	.01	1	210
PEL-88-D-3R	3	54	56	117	2.7	19	38	2736	5.13	216	5	ND	2	114	1	6	2	55	.83	.111	4	34	1.08	47	.17	2	1.36	.01	.02	1	90
PEL-88-D-4R	2	9	2	12	.2	6	15	3072	4.30	5	5	ND	4	6	1	4	2	5	.05	.014	3	46	.05	39	.01	3	.30	.01	.08	3	1
PEL-88-D-5R	25	57	86	112	1.7	326	296	93	16.78	26	5	ND	3	145	1	2	8	10	.51	.004	2	25	.02	4	.04	2	.41	.01	.02	1	159
PEL-88-D-6R	22	154	119	2851	2.0	170	301	450	18.85	23	5	ND	4	87	13	4	3	54	.62	.052	2	48	.96	4	.13	2	.96	.01	.01	1	75
PEL-88-D-7R	4	29	41	10	1.2	31	49	292	8.70	25	5	ND	1	177	1	2	8	37	1.05	.033	3	16	.08	20	.24	2	.78	.01	.01	1	17
PEL-88-D-8R	17	66	15	32	1.4	14	66	163	18.35	124	5	ND	3	33	1	4	9	20	.26	.065	2	12	.08	22	.09	2	.51	.01	.20	1	27
PEL-88-D-9R	24	159	74	251	10.9	60	392	111	21.37	156	5	ND	2	9	1	6	38	13	.05	.017	9	30	.06	10	.01	2	.42	.01	.25	1	112
PEL-88-D-10R	5	25	29	21	6.7	9	151	56	17.53	35	5	ND	3	5	1	3	13	6	.08	.011	2	13	.02	15	.02	2	.32	.01	.24	1	144
PEL-88-D-11R	8	223	140	71	7.2	10	56	29	10.23	60	5	ND	2	4	1	4	11	6	.09	.060	2	8	.02	16	.01	4	.43	.01	.26	1	123
PEL-88-D-12R	1	8	25	37	.4	2	5	415	8.22	14	5	ND	4	46	1	4	7	19	.11	.100	6	7	.47	211	.16	2	1.08	.01	.25	2	16
PEL-88-D-13R	2	9	26	40	.7	2	6	649	4.62	46	5	ND	2	48	1	3	9	21	.81	.100	4	14	.59	102	.14	2	1.30	.01	.36	1	24
PEL-88-D-14R	1	4	51	6	.4	4	9	42	4.18	20	5	ND	2	12	1	2	2	14	.22	.075	3	2	.04	51	.17	2	.50	.01	.31	2	7
PEL-88-D-15R	7	28	15	94	2.4	36	26	1294	8.03	34	5	ND	3	100	1	9	7	50	.79	.117	4	96	2.18	24	.12	2	3.13	.01	.08	1	20
PEL-88-D-16R	1	3	10	32	.6	10	11	779	4.54	4	5	ND	2	129	1	5	2	78	.77	.103	4	15	1.81	58	.29	4	1.90	.04	.04	1	51
PEL-88-D-17R	3	37	14	125	7.2	12	28	1096	10.11	111	5	ND	2	38	1	8	2	78	.45	.140	5	26	3.14	30	.16	2	3.23	.01	.20	1	73
PEL-88-D-18R	4	119	12	21	.2	5	4	11382	4.87	2	5	ND	2	244	1	5	2	5	12.93	.011	6	1	.39	74	.01	4	.26	.01	.02	1	2
PEL-88-D-19R	2	10	62	39	3.2	3	2	477	9.45	308	5	ND	2	97	1	14	2	58	.48	.054	2	36	.66	39	.17	2	1.37	.01	.10	1	122
PEL-88-D-20R	1	185	8	54	.4	5	6	1505	4.71	23	5	ND	1	298	3	3	2	29	6.42	.187	2	7	1.53	134	.01	3	.55	.01	.31	1	7
PEL-88-D-21R	3	25	22	130	.7	21	19	1238	7.41	51	5	ND	2	126	1	9	2	72	.68	.096	4	38	1.83	28	.15	2	2.06	.02	.13	1	47
PEL-88-D-22R	2	62	22	66	2.3	5	11	1030	12.61	209	5	ND	3	62	1	10	4	140	.17	.051	2	27	1.70	55	.28	2	1.78	.05	.02	1	57
PEL-88-D-23R	6	226	293	1090	14.8	14	5	295	2.81	166	5	3	1	32	6	4	2	16	.20	.037	3	15	.23	80	.06	2	.51	.01	.08	1	985
PEL-88-D-24R	3	87	25	12	4.4	11	10	136	6.10	165	5	ND	2	84	1	5	2	31	.31	.088	2	10	.07	41	.15	3	.37	.01	.08	1	92
PEL-88-D-25R	3	33	53	31	1.6	13	15	277	5.31	610	5	ND	1	12	1	3	3	16	.12	.038	2	10	.18	67	.05	2	.50	.01	.14	1	420
PEL-88-D-26R	6	34	79	15	4.0	3	5	129	19.81	244	5	ND	5	108	1	13	11	163	.39	.196	4	24	.03	64	.33	2	.78	.01	.15	2	116
PEL-88-D-27R	7	17	26	12	.5	8	11	135	3.42	40	5	ND	1	78	1	2	2	11	.39	.042	3	7	.09	52	.04	2	.54	.01	.11	1	44
PEL-88-D-28R	3	32	59	49	1.8	15	4	420	4.48	149	5	ND	2	176	1	5	2	52	1.34	.179	6	27	.27	11	.29	2	.88	.01	.01	1	85
PEL-88-D-29R	4	20	7	284	.3	23	21	2188	8.16	10	5	ND	1	16	1	6	2	83	.16	.032	2	20	3.31	87	.05	2	3.56	.01	.05	1	10
PEL-88-D-30R	3	1363	25790	21641	16.3	19	25	661	4.64	390	5	ND	1	112	137	8	2	35	.63	.068	5	23	.28	25	.10	2	.62	.01	.03	1	325
PEL-88-D-31R	75	3387	47	391	5.3	64	10	1250	4.64	4	5	ND	2	187	5	2	2	56	1.34	.120	8	48	1.52	21	.12	3	2.68	.01	.10	1	13
PEL-88-D-32R	5	3284	839	50892	14.8	19	47	444	4.80	338	5	ND	1	120	302	5	2	30	.81	.077	3	21	.10	5	.10	2	.51	.01	.01	22	375
PEL-88-D-33R	5	1539	6296	33585	39.3	26	26	1099	5.16	191	5	ND	1	147	203	11	2	52	1.90	.141	5	32	.53	39	.19	2	.94	.01	.07	1	870
PEL-88-D-34R	4	1710	50	1265	4.9	106	29	1863	3.83	77	5	ND	1	175	6	4	2	25	1.84	.037	3	71	.87	94	.08	2	1.41	.01	.01	1	39
PEL-88-D-35R	8	1267	605	636	8.2	33	55	3642	15.99	597	5	ND	3	86	2	11	2	81	.81	.173	4	64	1.68	93	.18	2	2.08	.01	.12	1	485
PEL-88-D-36R	1	3163	68	90724	6.4	5	11	2565	6.32	31	5	ND	1	63	548	3	6	10	6.06	.005	3	7	.13	18	.01	2	.13	.01	.01	316	128
STD C/AU-R	20	61	35	137	7.1	70	31	1023	4.23	43	17	7	39	50	19	16	20	61	.50	.093	41	58	.90	181	.08	32	2.05	.06	.16	11	520

- ASSAY REQUIRED FOR CORRECT RESULT for Cu Pb Zn > 1%

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
PEL-88-D-37R	4	321	295	9649	4.4	19	24	1221	4.84	377	5	ND	1	206	48	4	2	48	1.88	.181	4	31	.26	8	.21	6	.80	.01	.01	23	225
PEL-88-D-38R	4	22	18	97	.5	3	5	730	3.20	12	5	ND	2	22	1	2	2	10	.17	.085	10	7	.45	286	.01	2	.84	.01	.24	1	22
PEL-88-D-39R	330	9	7	28	.6	6	17	47	4.41	4	5	ND	1	115	1	2	2	33	.55	.048	2	3	.02	46	.10	4	.52	.02	.10	1	15
PEL-88-D-40R	1	9	4	48	.1	2	13	448	3.05	4	5	ND	2	58	1	2	2	21	.41	.124	6	8	.98	112	.07	2	1.05	.04	.18	1	2
PEL-88-D-41R	2	4	5	35	.1	4	7	272	2.27	2	5	ND	2	33	1	2	4	16	.39	.120	3	7	.73	66	.06	4	.87	.04	.22	1	9
PEL-88-D-42R	1	145	3	59	.1	5	12	323	1.94	4	5	ND	2	43	1	2	2	20	.41	.122	5	8	.81	72	.07	2	.94	.04	.21	1	1
PEL-88-D-43R	9	12	8	74	.1	8	37	301	5.32	3	5	ND	1	99	1	2	2	18	.47	.061	3	8	.39	51	.04	2	.78	.03	.16	1	1
PEL-88-D-44R	11	8	4	19	.1	10	1	5460	3.03	2	5	ND	1	13	1	2	2	9	.20	.010	2	8	.10	62	.01	2	.56	.01	.03	1	7
PEL-88-D-45R	5	7	34	32	.6	8	13	59	2.71	3	5	ND	1	7	1	2	2	16	.02	.007	2	7	.01	40	.15	2	.16	.04	.08	1	1
PEL-88-D-46R	2	11	13	10	.1	8	14	113	4.43	2	5	ND	1	72	1	2	2	20	.34	.015	2	6	.18	21	.08	2	.49	.05	.06	1	1
PEL-88-D-47R	6	14	7	59	.1	12	27	815	5.67	11	5	ND	1	93	1	5	2	47	.53	.088	2	28	3.14	30	.12	2	2.59	.04	.06	1	13
PEL-88-D-48R	1	71	2	37	.1	16	2	296	2.06	3	5	ND	1	113	1	2	3	53	.70	.095	5	50	.43	19	.21	3	.75	.06	.05	1	7
PEL-88-D-49R	12	145	15	162	1.1	18	9	1168	11.08	3	5	ND	1	56	1	8	2	64	.23	.106	3	42	1.43	58	.23	3	1.95	.02	.23	1	13
PEL-88-D-50R	2	272	11	57	1.6	3	2	55	11.25	3	5	ND	1	20	1	2	2	98	.11	.101	2	19	.08	145	.26	2	.56	.01	.36	1	46
PEL-88-D-51R	7	20	7	22	1.4	3	6	33	7.76	2	5	ND	2	18	1	2	2	26	.02	.044	2	4	.03	86	.13	2	.28	.03	.23	2	5
PEL-88-D-52R	51	11	16	94	.5	5	34	803	9.12	2	5	ND	1	73	1	4	2	29	.38	.085	3	13	1.59	27	.06	4	1.54	.05	.12	1	29
PEL-88-D-53R	1	4	8	33	.1	5	7	268	2.10	2	5	ND	1	29	1	2	2	21	.24	.066	2	7	.53	54	.10	2	.62	.05	.09	2	1
PEL-88-D-54R	1	8	3	20	.1	4	10	125	4.22	3	5	ND	1	58	1	2	2	27	.44	.099	3	7	.64	38	.07	4	.85	.05	.18	1	2
PEL-88-D-55R	1	15	6	81	.1	1	8	618	3.70	2	5	ND	3	34	1	2	2	26	.36	.128	6	8	1.02	81	.08	2	1.19	.03	.25	1	1
PEL-88-D-56R	4	18	9	21	.1	4	9	195	4.21	3	5	ND	1	66	1	2	2	20	.27	.042	2	6	.50	41	.04	2	.70	.03	.17	1	1
PEL-88-D-57R	3	121	2	66	.2	40	12	201	3.31	3	5	ND	1	17	1	2	2	41	.32	.091	14	44	.82	86	.16	4	.99	.03	.29	1	1
PEL-88-D-58R	11	48	2	30	.1	3	4	234	3.00	2	5	ND	8	9	1	2	2	29	.13	.074	4	6	.56	84	.02	2	.70	.02	.21	1	18
PEL-88-D-59R	3	419	2	21	2.7	9	4	103	.77	4	5	ND	1	2	1	2	3	1	.01	.003	2	6	.01	6	.01	2	.03	.01	.01	2	46
PEL-88-D-60R	4	8	9	218	.9	10	19	2740	11.52	6	5	ND	1	38	1	11	2	109	.56	.101	2	18	3.46	8	.22	2	4.13	.01	.08	1	15
PEL-88-D-61R	3	47	13	141	.1	11	9	825	1.99	4	5	ND	1	5	1	2	2	25	.09	.031	2	12	.52	10	.03	2	.75	.02	.04	1	1
PEL-88-D-62R	1	962	6	226	1.0	12	20	1406	5.53	6	5	ND	1	137	1	5	2	78	1.03	.149	3	16	2.27	3	.18	2	2.72	.02	.02	1	1
PEL-88-D-63R	2	7	8	11	.1	7	6	61	1.81	2	5	ND	1	22	1	2	2	9	.04	.032	2	6	.05	14	.05	2	.19	.02	.03	2	1
PEL-88-D-64R	1	7	9	307	.9	12	44	1447	12.36	7	5	ND	3	30	1	11	2	82	.30	.145	4	16	2.74	20	.17	7	3.04	.01	.14	1	47
PEL-88-D-65R	1	27	9	65	.1	2	11	424	5.17	2	5	ND	3	27	1	4	2	83	.23	.116	5	8	1.34	39	.20	2	1.31	.06	.11	2	29
PEL-88-D-66R	1	77	3	45	.1	7	18	468	4.50	2	5	ND	1	34	1	2	2	70	.38	.118	3	15	1.45	61	.18	5	1.41	.04	.20	2	24
PEL-88-D-67R	1	28	4	38	.1	7	3	307	2.63	3	5	ND	1	56	1	2	2	38	.43	.143	3	11	.65	70	.14	2	.95	.05	.23	1	6
PEL-88-D-68R	2	15	37	166	.1	16	8	612	4.50	2	5	ND	1	57	1	2	2	37	.31	.064	3	38	1.84	32	.16	2	1.25	.04	.09	1	5
PEL-88-D-69R	9	73	12	156	.1	14	3	642	3.95	2	5	ND	1	25	1	4	2	93	.19	.154	2	24	2.23	38	.19	2	1.97	.06	.10	1	11
PEL-88-D-70R	30	15	3	111	.1	16	7	1151	5.10	2	5	ND	1	32	1	2	2	49	.23	.043	2	39	2.11	57	.11	2	1.85	.04	.27	1	6
PEL-88-D-71R	1	72	7	59	.1	14	12	487	4.05	2	5	ND	1	41	1	2	2	32	.44	.120	4	16	.79	40	.10	2	.87	.04	.14	1	2
PEL-88-D-72R	3	16	34	342	.1	8	60	303	10.68	2	5	ND	1	107	1	2	2	16	1.36	.078	2	8	.02	24	.04	2	.44	.01	.17	1	1
STD C/AU-R	18	62	44	132	7.2	73	30	1056	4.15	42	18	8	40	53	20	17	18	58	.48	.099	40	56	.90	183	.08	33	1.93	.06	.17	11	515

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
PEL-88-D-73R	4	806	305	857	3.4	15	18	1099	3.95	3	5	ND	1	85	7	2	3	43	1.40	.068	2	35	1.08	34	.09	2	1.12	.06	.06	1	12
PEL-88-D-74R	16	14	31	157	.1	16	16	948	4.86	2	5	ND	6	32	1	2	2	41	.44	.068	2	29	1.21	65	.05	2	1.27	.08	.15	1	1
PEL-88-D-75R	8	20	26	52	.3	10	15	369	5.24	2	5	ND	1	48	1	2	2	46	.36	.098	4	25	.53	83	.14	5	.87	.06	.26	1	2
PEL-88-D-76R	5	21	40	37	.3	3	9	229	7.20	2	5	ND	1	73	1	2	2	67	.26	.093	3	19	.35	71	.17	2	.78	.08	.23	1	4
PEL-88-D-77R	3	12	29	30	.1	8	21	33	6.44	2	5	ND	1	65	1	2	2	27	.26	.047	3	13	.02	43	.08	2	.38	.06	.14	1	5
PEL-88-D-78R	2	180	15	140	.7	14	34	606	7.13	3	5	ND	4	120	1	7	2	75	.65	.121	4	21	1.59	37	.25	7	1.62	.05	.17	1	26
PEL-88-D-79R	2	8	30	11	2.4	2	7	165	4.87	117	5	ND	1	169	1	2	8	41	.64	.050	3	13	.01	76	.27	2	.75	.01	.26	59	128
PEL-88-D-80R	1	22	63	9	.7	1	4	114	9.64	12	5	ND	1	7	1	4	2	8	.01	.070	2	6	.02	312	.16	2	.41	.01	.23	1	23
PEL-88-D-81R	12	139	191	101	20.9	21	59	799	13.92	58	5	ND	2	5	1	3	15	36	.07	.052	3	37	1.14	33	.10	2	1.47	.01	.14	6	385
PEL-88-D-82R	7	68	57	33	1.8	6	5	142	12.55	349	5	ND	1	7	1	2	5	25	.01	.078	2	20	.02	286	.09	4	.21	.01	.12	1	235
PEL-88-D-83R	7	136	83	170	4.5	14	37	505	9.59	82	5	ND	2	94	1	9	10	38	.44	.105	9	37	.46	40	.12	2	1.23	.01	.16	351	116
PEL-88-D-84R	3	13	18	18	.5	4	14	490	5.29	67	5	ND	1	142	1	4	2	23	.84	.109	3	17	.66	75	.09	2	1.36	.01	.19	1	10
PEL-88-D-85R	4	18	117	6	16.5	6	1	25	1.49	75	5	ND	1	6	1	2	2	3	.01	.008	2	22	.01	29	.01	2	.06	.01	.04	1	355
PEL-88-D-86R	3	4	20	51	1.9	5	5	1078	6.08	5	5	ND	1	24	1	2	4	31	.21	.071	2	16	1.38	51	.07	2	2.08	.01	.19	21	33
PEL-88-D-87R	96	7	4	5	.3	12	64	983	6.12	36	5	ND	1	80	1	2	2	93	3.65	.080	2	33	.10	3	.08	7	.57	.01	.01	1	39
PEL-88-D-88R	5	30	10	14	.9	91	59	56	16.50	19	5	ND	1	5	1	8	2	6	.11	.002	2	25	.06	6	.01	2	.03	.01	.01	1	21
PEL-88-D-89R	15	9	10	11	.3	135	88	65	17.76	351	5	ND	2	42	1	4	2	13	.27	.003	2	17	.06	2	.03	2	.14	.01	.01	1	188
PEL-89-D-90R	9	11	2	8	.2	59	54	110	5.96	22	5	ND	1	96	1	2	2	35	.63	.013	2	27	.13	2	.08	2	.35	.01	.01	1	14
PEL-88-D-91R	907	16	15	30	.7	104	46	106	8.70	15	5	ND	1	88	1	4	2	170	.43	.007	2	49	.14	10	.07	2	.43	.01	.02	1	50
PEL-88-D-92R	42	25	14	62	1.1	97	48	146	11.28	37	5	ND	1	163	1	7	2	354	.49	.007	2	63	.16	76	.09	2	.42	.01	.01	1	45
PEL-88-D-93R	324	145	10	17	2.5	36	88	139	16.45	15	5	ND	1	20	1	3	2	6	.33	.001	2	17	.21	5	.01	2	.08	.01	.01	1	104
PEL-88-D-94R	11	49	49	399	1.4	22	70	626	14.32	29	5	ND	1	204	1	8	2	16	.75	.009	2	24	.98	6	.04	2	1.26	.01	.01	1	65
PEL-88-D-95R	5	73	10	344	.2	18	35	1843	5.01	2	5	ND	2	24	2	3	2	19	.40	.089	5	18	1.48	100	.04	2	2.63	.01	.31	1	6
PEL-88-D-96R	6	5878	5	72	6.8	23	7	1213	3.19	5	5	ND	1	144	1	2	2	23	1.86	.047	2	40	.65	156	.06	2	1.59	.02	.16	1	31
PEL-88-D-97R	6	131	3	21	.1	3	2	120	2.36	3	5	ND	1	9	1	2	2	15	.06	.047	2	11	.06	91	.03	2	.34	.01	.17	1	34
PEL-88-D-98R	1	57	8	27	.3	3	8	273	2.82	12	5	ND	1	63	1	2	2	22	.47	.093	3	9	.20	112	.16	2	.78	.01	.31	1	4
PEL-88-J-1R	5	94	32	57	1.9	24	18	1772	6.93	194	5	ND	1	230	1	12	2	61	1.68	.290	5	47	.91	5	.29	2	1.29	.01	.01	11	84
PEL-88-J-2R	3	78	73	76	3.6	15	10	1810	6.64	149	5	ND	1	187	1	9	2	63	1.39	.222	4	57	1.09	7	.31	14	1.34	.01	.02	1	89
PEL-88-J-3R	5	705	472	7215	7.1	24	30	1123	7.67	326	5	ND	1	166	38	10	2	38	1.22	.127	3	41	.46	4	.15	8	.98	.01	.01	9	345
PEL-88-J-4R	8	118	240	372	9.7	39	107	765	14.37	389	5	ND	3	118	1	11	3	39	.79	.127	5	42	.43	7	.21	2	.72	.01	.01	1	235
PEL-88-J-5R	3	22	35	19	2.7	10	18	112	3.15	126	5	ND	1	34	1	2	2	14	.18	.032	2	30	.03	13	.06	2	.21	.01	.04	4	151
PEL-88-J-6R	8	16	33	34	2.0	6	23	307	6.14	22	5	ND	1	9	1	2	2	9	.09	.036	5	15	.29	54	.01	2	.71	.01	.26	1	55
PEL-88-J-7R	29	13	8	8	.1	86	109	114	7.98	7	5	ND	1	209	1	2	2	12	.91	.052	2	31	.06	5	.07	2	.63	.01	.02	1	16
PEL-88-J-8R	10	14	2	11	.6	13	12	908	8.12	21	5	ND	1	66	1	2	8	50	4.69	.068	2	22	.14	8	.14	2	.87	.01	.01	1	26
PEL-88-J-9R	5	9	7	25	.7	9	17	338	3.49	7	5	ND	1	7	1	2	2	14	.25	.023	2	31	.35	21	.01	2	.64	.01	.06	99	17
PEL-88-J-10R	9	32	22	85	.8	5	34	869	11.27	17	5	ND	1	101	1	2	5	18	.40	.060	3	16	.71	91	.08	2	1.21	.01	.22	1	66
STD C/AU-R	18	63	42	132	7.6	72	31	1049	4.09	43	21	8	40	53	19	17	19	59	.47	.096	40	60	.87	181	.07	33	1.88	.06	.16	11	505

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
PEL-88-J-11R	3	20180	2	88	11.0	9	28	1408	10.81	11	5	ND	2	89	1	2	4	27	.46	.106	3	16	1.45	26	.09	2	1.85	.01	.14	1	66
PEL-88-J-12R	2	439	11	120	1.1	2	7	1558	5.02	21	5	ND	4	7	1	4	2	19	.19	.109	7	7	2.16	75	.01	2	1.81	.01	.20	1	27
PEL-88-J-13R	7	87	61	35	1.6	4	7	426	7.44	89	5	ND	2	18	1	6	2	23	.11	.084	4	13	.40	68	.13	3	.84	.01	.11	2	61
PEL-88-J-14R	1	7	4	41	.9	2	5	725	3.55	9	5	ND	2	104	1	3	2	19	.64	.121	7	4	.77	63	.10	6	1.07	.02	.13	1	13
PEL-88-J-15R	1	7	18	4	1.1	1	3	22	1.58	37	5	ND	2	4	1	2	2	5	.10	.069	3	1	.02	118	.09	3	.24	.01	.18	2	29
PEL-88-J-16R	1	5	3	29	.1	3	11	552	3.97	7	5	ND	2	76	1	2	2	15	.54	.094	6	5	.63	83	.06	2	1.00	.01	.14	1	14
PEL-88-J-17R	21	27	20	14	2.4	7	72	133	5.23	136	5	ND	1	37	1	2	16	17	.17	.027	2	6	.06	20	.01	2	.33	.01	.06	5	84
PEL-88-J-18R	1	202	9	29	.1	5	10	1072	2.47	47	5	ND	1	145	1	2	2	12	3.68	.161	2	4	.65	118	.01	12	.51	.01	.24	1	12
PEL-88-J-19R	2	22	67	87	3.0	13	6	870	5.25	270	5	ND	3	190	1	9	3	63	1.05	.159	5	51	.50	17	.27	3	1.03	.01	.03	1	137
PEL-88-J-20R	2	58	28	285	1.4	19	15	2178	7.64	81	5	ND	2	63	1	6	2	54	.63	.184	7	33	2.02	36	.19	3	2.13	.01	.18	1	55
PEL-88-J-21R	2	34	22	133	.9	22	13	619	4.40	30	5	ND	2	15	1	3	2	40	.22	.066	3	30	1.64	44	.14	2	1.38	.01	.11	1	57
PEL-88-J-22R	1	56	1891	114	15.0	3	2	89	4.64	185	5	ND	1	42	1	3	2	30	.15	.040	4	7	.03	201	.11	2	.22	.01	.01	2	285
PEL-88-J-23R	1	12	94	18	1.8	2	6	97	3.68	31	5	ND	1	91	1	2	2	7	.03	.019	2	3	.07	17	.04	2	.13	.01	.03	2	39
PEL-88-J-24R	2	7	26	10	.3	1	2	46	1.20	14	5	ND	2	85	1	2	2	5	.09	.046	2	4	.01	423	.06	2	.18	.01	.10	4	10
PEL-88-J-25R	3	46	14	143	2.4	25	50	2533	10.15	17	5	ND	3	22	1	7	4	82	.83	.176	3	68	3.27	17	.11	7	3.46	.01	.05	1	43
PEL-88-J-26R	2	71	17	14	1.9	3	7	57	6.14	26	5	ND	1	2	1	2	11	15	.01	.026	2	8	.04	32	.01	4	.08	.01	.02	81	255
PEL-88-J-27R	1	7	5	7	.7	6	39	23	9.94	7	5	9	2	1	1	2	6	1	.01	.001	2	3	.01	8	.01	2	.01	.01	.01	2	11025
PEL-88-J-28R	7	28	24	51	2.4	10	5	709	10.86	56	5	ND	4	92	1	9	4	95	.48	.259	6	66	1.18	53	.45	2	1.48	.01	.03	1	57
PEL-88-J-29R	1	26	22	61	1.0	10	61	91	9.49	24	5	ND	2	15	2	2	2	6	.07	.004	2	6	.08	7	.01	2	.22	.01	.10	1	75
PEL-88-J-30R	11	880	178	15846	11.9	3	13	910	7.22	272	5	ND	1	13	133	4	3	15	1.24	.006	2	4	.14	17	.01	2	.26	.01	.02	1	1015
PEL-88-J-31R	15	118	95	459	1.7	27	11	3174	6.29	107	5	ND	3	186	1	10	2	101	1.41	.409	12	74	2.81	61	.34	3	2.53	.01	.05	1	44
PEL-88-J-32R	48	64756	16	1551	74.0	14	66	1082	17.06	64	5	ND	3	34	14	5	23	5	.40	.005	2	5	.11	4	.01	4	.11	.01	.01	1	2895
PEL-88-J-33R	2	655	90	549	5.3	2	14	381	26.40	182	5	ND	4	3	4	2	4	6	.04	.002	2	7	.02	3	.01	2	.03	.01	.01	34	385
PEL-88-J-34R	1	793	85	1263	117.0	3	9	177	18.58	47	5	ND	2	9	6	11	4	2	.11	.001	2	2	.05	2	.01	2	.04	.01	.01	1	635
PEL-88-J-35R	6	455	332	572	6.0	14	18	1691	7.42	213	5	ND	1	67	2	7	4	39	.61	.110	2	34	.90	11	.13	6	1.04	.01	.01	3	134
PEL-88-J-36R	4	185	11	100	.6	7	9	1234	4.61	9	5	ND	2	112	1	5	2	88	.67	.064	2	13	2.30	7	.31	3	2.33	.01	.05	1	19
PEL-88-J-37R	1	9	8	110	.3	12	8	1360	4.69	4	5	ND	1	114	1	5	2	100	.75	.072	4	13	3.09	3	.31	3	2.69	.02	.02	1	9
PEL-88-J-38R	1	21	2	42	.1	47	27	439	3.23	3	5	ND	1	75	1	2	2	62	.63	.088	3	37	.72	8	.19	5	.85	.03	.03	1	10
PEL-88-J-39R	2	4	8	28	.1	19	4	505	1.57	2	5	ND	2	57	1	2	2	51	.48	.103	3	35	1.08	15	.16	2	1.06	.03	.06	2	3
PEL-88-J-40R	1	11	14	128	.1	4	14	961	2.26	3	5	ND	3	46	1	2	2	21	.96	.120	4	6	1.42	46	.05	4	1.28	.02	.12	1	6
PEL-88-J-41R	1	5	9	44	.2	2	20	359	4.74	3	5	ND	3	31	1	2	2	10	.41	.108	3	6	.75	29	.05	9	.81	.02	.18	1	10
PEL-88-J-42R	1	23	17	154	.9	6	47	534	14.80	4	5	ND	6	39	1	2	2	26	.31	.109	3	9	1.15	19	.04	5	1.15	.02	.15	1	14
PEL-88-J-43R	1	7	4	105	.1	1	2	477	1.90	2	5	ND	2	88	1	2	2	28	.52	.099	3	7	.85	42	.08	4	.89	.03	.07	1	1
PEL-88-J-44R	4	11	2	35	.1	2	1	258	.38	3	5	ND	16	13	1	2	2	2	.48	.035	8	1	.01	78	.01	8	.16	.03	.06	1	1
PEL-88-J-45R	1	116	5	151	.1	38	8	1632	3.31	4	5	ND	2	166	1	4	2	15	5.82	.086	4	29	1.36	68	.01	4	.27	.02	.15	1	1
PEL-88-J-46R	5	239	8	127	.7	27	10	1318	3.54	4	5	ND	1	152	1	14	2	19	6.02	.087	3	15	1.87	109	.01	11	.24	.02	.13	1	1
STD C/AU-R	19	63	38	132	7.2	73	31	1058	4.06	44	17	8	40	52	20	19	20	60	.48	.093	40	59	.89	181	.08	31	1.97	.06	.17	11	515

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
PEL-88-J-47R	5	62	18	81	.8	6	9	1066	9.85	15	5	ND	2	11	1	5	2	67	.20	.057	2	22	2.63	27	.17	6	3.31	.01	.13	1	6
PEL-88-J-48R	11	39	10	447	1.0	16	29	703	4.86	6	5	ND	1	153	2	4	3	35	.86	.112	3	19	1.38	22	.15	4	1.79	.02	.11	1	79
PEL-88-J-49R	21	154	2	197	.7	12	5	1492	4.86	2	5	ND	2	73	1	2	2	53	.64	.154	6	26	1.90	66	.15	4	2.27	.03	.11	1	14
PEL-88-J-50R	1	31	6	75	.2	2	2	58	2.92	3	5	ND	7	19	1	2	2	11	.11	.068	9	2	.16	118	.01	4	.39	.02	.13	1	18
PEL-88-J-51R	2	145	2	73	.6	13	29	486	5.33	2	5	ND	3	48	1	2	2	52	.56	.164	6	9	1.12	34	.11	3	1.25	.03	.09	1	21
PEL-88-J-52R	1	33	50	124	1.1	15	56	708	17.79	2	5	ND	2	48	1	3	2	51	.40	.121	3	13	1.42	18	.08	3	1.39	.02	.12	1	32
PEL-88-J-53R	6	132	16	107	1.6	3	17	499	6.53	4	5	ND	1	65	1	2	5	28	.26	.056	5	4	.43	22	.11	3	1.07	.01	.17	1	24
PEL-88-J-54R	3	52	27	156	.2	2	5	536	3.52	8	5	ND	2	46	1	2	2	5	.89	.095	3	3	.27	63	.01	2	.25	.01	.13	1	21
PEL-88-J-55R	3	83	24	232	.1	20	11	1360	4.04	14	5	ND	1	77	1	2	2	6	2.58	.092	3	7	.58	64	.01	3	.34	.01	.20	1	15
PEL-88-J-56R	1	43	5	47	.1	3	2	671	.86	2	5	ND	1	43	1	2	3	1	3.61	.008	2	1	.02	9	.01	2	.07	.02	.03	1	34
PEL-88-J-57R	1	3	5	49	.1	3	2	2412	3.71	3	5	ND	1	279	1	2	2	2	27.38	.005	2	5	1.08	14	.01	2	.01	.01	.02	2	1
PEL-88-J-58R	1	3	6	30	.1	1	1	1501	.29	2	5	ND	1	306	1	2	2	1	22.39	.001	2	1	.02	5	.01	2	.01	.01	.01	1	3
PEL-88-J-59R	2	81	15	141	.8	5	13	985	6.28	12	5	ND	1	42	1	2	2	7	1.73	.082	4	4	.29	66	.01	2	.29	.01	.14	1	23
PEL-88-J-60R	3	6	10	28	3.2	4	39	614	8.79	3	5	ND	1	117	1	2	5	8	3.04	.037	2	4	.17	13	.01	2	.19	.01	.08	1	88
PEL-88-J-61R	1	10	46	30	.1	2	7	307	3.88	7	5	ND	3	9	1	2	2	9	.21	.099	8	1	.06	80	.01	3	.40	.02	.21	1	34
PEL-88-J-62R	1	42	8	83	.5	9	7	568	7.71	5	5	ND	2	74	1	3	2	19	.52	.260	5	21	1.64	21	.23	2	1.70	.02	.07	1	28
PEL-88-J-63R	1	10	2	73	.4	24	37	1074	9.72	3	5	ND	2	48	1	5	3	99	.68	.183	4	45	2.64	12	.20	2	2.93	.02	.07	1	9
PEL-88-J-64R	5	12	3	20	.1	1	3	71	1.56	2	5	ND	14	9	1	2	2	12	.11	.045	4	2	.12	83	.05	2	.28	.03	.10	1	2
PEL-88-J-65R	9	105	12	29	.1	6	12	122	3.28	2	5	ND	3	18	1	2	2	19	.17	.066	3	6	.18	74	.06	3	.40	.02	.14	1	8
PEL-88-J-66R	3	17	65	106	.5	2	5	161	8.06	2	5	ND	5	29	1	2	2	18	.19	.042	3	2	.18	14	.04	3	.42	.02	.15	1	10
PEL-88-J-67R	21	101	28	47	.8	21	60	371	11.91	9	5	ND	3	74	1	2	2	82	2.90	.923	5	14	.69	9	.04	4	.53	.01	.03	1	14
PEL-88-J-68R	2	46	20	144	.5	10	41	1026	10.96	3	5	ND	3	77	1	3	2	31	.47	.078	2	8	3.07	47	.05	5	2.95	.01	.17	1	17
PEL-88-J-69R	1	103	51	390	2.7	7	45	413	18.22	4	5	ND	3	9	2	2	4	23	.20	.070	2	11	.69	16	.12	2	.88	.01	.20	1	41
PEL-88-J-70R	12	19	20	70	.1	5	10	352	4.94	2	5	ND	2	42	1	2	2	42	.40	.156	3	12	1.19	51	.14	3	1.17	.03	.19	1	9
PEL-88-J-71R	11	18	9	63	.1	7	10	312	4.32	2	5	ND	2	49	1	2	2	37	.42	.132	2	14	1.04	41	.12	4	1.12	.04	.14	1	10
PEL-88-J-72R	4	45	9	34	.1	4	15	268	3.10	2	5	ND	1	49	1	2	2	28	.64	.153	4	6	.68	64	.09	13	.94	.03	.18	1	6
PEL-88-J-73R	1	6	26	107	.7	10	20	1308	5.93	61	5	ND	2	86	1	5	2	45	.62	.096	5	12	2.28	27	.11	2	2.65	.01	.04	39	48
PEL-88-J-74R	1	15	26	73	.4	10	32	1105	8.70	54	5	ND	1	30	1	6	2	61	.49	.214	5	9	1.88	25	.21	3	2.12	.01	.23	1	62
PEL-88-J-75R	4	36	65	38	4.1	4	25	349	5.24	74	5	ND	1	5	1	2	4	18	.04	.032	3	10	.13	44	.06	5	.34	.01	.06	5	124
PEL-88-J-76R	2	16	36	53	.4	4	4	303	4.62	71	5	ND	1	7	1	2	3	17	.06	.046	2	7	.35	149	.08	2	.72	.01	.10	7	61
PEL-88-J-77R	2	132	594	59	7.1	5	4	279	5.28	125	5	ND	2	32	1	5	2	25	.22	.076	10	13	.51	122	.07	3	.64	.04	.04	5	171
PEL-88-J-78R	2	19	457	132	9.6	3	1	61	1.39	112	5	ND	1	19	1	3	2	6	.04	.022	2	2	.04	125	.06	2	.15	.01	.08	1	225
PEL-88-J-79R	1	36	19	17	1.0	2	3	93	3.76	13	5	ND	1	5	1	2	2	8	.04	.043	2	4	.08	127	.05	2	.29	.01	.09	159	37
PEL-88-J-80R	1	28	17	51	1.1	3	10	789	6.23	7	5	ND	2	11	1	2	3	20	.12	.070	7	7	.97	51	.07	2	1.48	.01	.16	1	31
PEL-88-J-81R	8	5	5	8	.2	4	73	46	9.88	4	5	ND	5	14	1	2	4	5	.13	.033	3	6	.04	25	.02	8	.22	.01	.11	3	16
PEL-88-J-82R	3	8	4	3	.3	1	2	25	3.47	5	5	6	1	1	1	2	4	1	.01	.004	3	1	.01	32	.01	3	.08	.01	.04	1	6205
STD C/AU-R	18	61	37	132	7.3	69	30	1021	4.30	41	16	8	39	50	19	16	18	61	.49	.095	41	56	.90	179	.08	34	2.03	.06	.16	11	475

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
PEL-88-J-83R	2	25	4	11	.3	40	25	116	7.87	20	5	ND	4	71	1	2	2	39	.62	.161	7	17	.09	16	.21	2	.32	.01	.05	1	63
PEL-88-J-84R	3	80	39	887	1.1	28	34	758	8.72	8	5	ND	2	76	5	2	2	40	.76	.091	2	20	1.25	80	.09	2	1.44	.01	.06	1	32
PEL-88-J-85R	1	4	3	60	.3	6	1	249	.72	2	5	ND	1	3	1	2	2	7	.05	.003	2	2	.43	2	.01	2	.34	.01	.03	1	3
PEL-88-J-86R	1	61	37	106	.9	59	59	469	13.62	22	5	ND	2	57	1	2	2	36	.45	.059	2	18	.86	4	.09	2	.86	.01	.04	1	36
PEL-88-J-87R	5	29	11	545	.4	27	33	670	7.19	7	5	ND	2	67	3	2	2	29	.55	.145	2	10	1.11	26	.32	2	1.24	.01	.10	1	26
PEL-88-J-88R	1	60	5	20	.4	35	54	58	16.34	22	5	ND	2	22	1	2	3	5	.20	.004	2	3	.05	3	.01	2	.11	.01	.03	2	91
PEL-88-J-89R	9	49	21	309	.3	19	18	1171	8.32	18	5	ND	3	67	1	2	2	50	.46	.160	2	27	1.63	76	.14	2	1.74	.01	.08	1	13
PEL-88-J-90R	2	21	18	85	.6	28	41	428	9.80	12	5	ND	2	84	1	2	5	31	.54	.071	2	17	.62	13	.11	2	.88	.01	.04	2	26
PEL-88-J-91R	4	18	5	41	.3	20	34	320	4.44	2	5	ND	2	60	1	2	2	35	.50	.064	2	14	.59	15	.07	2	.75	.01	.06	1	10
PEL-88-J-91R A	1	2512	13	43	3.5	85	217	112	20.98	54	5	ND	2	6	1	2	2	15	.37	.061	2	2	.09	2	.01	2	.04	.01	.03	2	35
PEL-88-J-92R	1	1781	3	69	9.6	45	137	79	17.80	44	5	ND	2	6	1	2	2	6	.25	.015	2	1	.07	1	.01	2	.03	.01	.03	1	89
PEL-88-J-93R	1	237	4	44	2.1	68	120	126	16.04	37	5	ND	2	3	1	2	2	9	.64	.056	2	2	.04	1	.01	2	.05	.01	.03	2	29
PEL-88-J-94R	1	86	2	17	.7	73	203	61	15.98	41	5	ND	2	5	1	2	2	3	.34	.051	2	2	.05	2	.01	2	.02	.01	.02	1	41
PEL-88-J-95R	8	16	25	177	.3	16	46	1379	6.53	2	5	ND	2	23	1	2	2	56	.40	.124	2	18	2.88	25	.05	2	2.17	.02	.10	1	7
PEL-88-J-96R	9	288	101	219	.6	18	33	860	8.06	2	5	ND	2	41	1	2	2	56	.57	.121	3	14	1.58	8	.07	2	1.31	.02	.04	1	15
PEL-88-J-97R	25	12	53	132	.2	16	19	634	4.15	2	5	ND	2	27	1	2	2	51	.48	.116	3	9	1.11	19	.07	3	.87	.03	.06	1	3
PEL-88-J-98R	1	44	9	249	.3	8	23	568	3.64	2	5	ND	2	122	1	2	2	25	.37	.077	3	6	.57	5	.09	2	.80	.01	.03	1	5
PEL-88-J-99R	3	29	14	169	.2	11	22	1250	5.35	2	5	ND	2	83	1	2	2	31	.63	.105	3	4	1.57	17	.06	2	1.60	.01	.07	1	6
PEL-88-J-100R	2	137	10	54	.4	1	5	310	1.61	2	5	ND	3	11	1	2	2	4	.12	.044	5	1	.05	35	.01	2	.23	.01	.10	1	11
PEL-88-J-101R	2	96	14	158	.5	2	5	1208	2.02	6	5	ND	2	55	2	2	2	9	6.66	.054	4	3	.08	24	.01	2	.26	.01	.10	2	4
REL-J-REF-5	1	20	3	63	.2	1	2	151	2.33	2	5	ND	9	14	1	2	2	7	.23	.082	9	1	.14	162	.01	2	.29	.02	.09	1	6
REL-J-REF-6	2	151	19	151	.5	11	37	740	9.63	11	5	ND	2	39	1	2	2	54	.52	.136	5	4	1.64	15	.07	2	1.50	.01	.07	1	23
REL-J-REF-7	1	35	8	265	.1	9	16	2602	5.78	2	5	ND	2	49	1	2	2	138	2.23	.143	4	8	2.68	24	.12	2	3.18	.02	.17	1	1
REL-J-REF-8	1	38	3	33	.2	2	3	714	1.28	2	5	ND	1	55	1	2	2	7	4.51	.048	2	4	.17	10	.01	4	.13	.01	.05	4	12
STD C/AU-R	18	58	42	132	6.6	66	29	1038	4.10	43	20	7	37	47	37	18	27	57	.49	.090	38	55	.94	178	.06	33	2.00	.06	.14	13	500

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
PEL-88-BD-1S	8	34	20	91	.1	8	5	565	6.76	12	5	ND	12	10	1	3	2	28	.08	.081	26	11	.27	29	.20	7	2.88	.07	.11	2	12
PEL-88-BD-2S	5	26	22	92	.1	10	4	479	4.62	10	5	ND	7	34	2	3	2	49	.16	.114	25	21	.68	81	.23	5	2.54	.05	.10	1	28
PEL-88-BD-3S	9	12	16	98	.1	10	4	874	5.83	8	5	ND	14	4	3	2	2	18	.07	.038	24	10	.31	23	.17	4	4.41	.06	.09	1	4
PEL-88-BD-4S	4	67	9	115	.2	14	11	575	4.85	11	5	ND	5	65	2	4	2	58	.46	.130	21	24	.62	75	.40	7	6.12	.05	.11	1	24
PEL-88-BD-5S	5	76	27	80	1.1	9	7	286	21.32	33	5	ND	6	28	1	2	2	76	.21	.514	11	17	.52	52	.23	2	1.88	.06	.10	1	19
PEL-88-BD-6S	4	33	45	54	.9	5	2	360	3.55	7	5	ND	2	69	2	2	2	47	.16	.110	9	16	.63	209	.20	4	1.96	.01	.13	1	96
PEL-88-BD-7S	5	119	35	62	.9	2	2	369	4.58	11	5	ND	1	136	1	2	2	45	.13	.144	11	14	.44	333	.11	3	3.53	.01	.10	2	152
PEL-88-BD-8S	4	21	8	46	.7	1	5	1016	3.35	2	5	ND	1	45	1	2	2	66	.19	.115	6	6	.17	117	.16	3	1.27	.01	.04	2	14
PEL-88-BD-9S	3	7	23	32	1.2	2	1	150	1.13	2	5	ND	1	24	1	2	3	68	.16	.037	7	6	.13	62	.38	3	.55	.02	.04	1	5
PEL-88-BD-10S	6	14	10	67	.4	2	2	342	10.52	11	5	ND	4	4	1	3	2	39	.04	.054	39	14	.07	10	.17	2	3.76	.03	.07	1	2
PEL-88-BD-11S	5	15	28	62	.7	4	2	357	6.33	5	5	ND	3	33	2	2	6	87	.05	.062	15	23	.27	45	.38	4	2.48	.01	.05	1	12
PEL-88-BD-12S	10	10	19	59	.1	1	1	257	8.53	9	5	ND	6	5	1	2	2	42	.04	.034	34	12	.07	10	.31	2	2.31	.04	.08	3	1
PEL-88-BD-13S	5	15	18	47	.3	6	1	215	6.85	5	5	ND	4	8	3	2	2	68	.06	.049	23	19	.18	15	.32	4	3.83	.02	.05	1	3
PEL-88-BD-14S	5	24	32	76	.3	7	4	511	4.35	12	5	ND	5	47	3	2	2	39	.14	.120	30	13	.66	382	.17	4	2.16	.02	.12	1	39
PEL-88-BD-15S	7	30	35	65	.3	5	5	612	5.54	10	5	ND	5	102	1	2	2	64	.17	.154	30	13	.48	209	.24	3	2.61	.02	.09	3	79
PEL-88-BD-16S	3	58	16	87	.3	26	14	621	5.14	9	5	ND	4	27	2	2	2	41	.16	.066	19	38	1.51	105	.15	4	3.46	.01	.20	1	14
PEL-88-BD-17S	4	38	16	56	.5	8	5	356	4.56	11	5	ND	6	49	1	2	2	44	.18	.124	14	16	.65	149	.19	4	1.69	.03	.10	1	182
PEL-88-BD-18S	5	26	28	59	.4	5	3	321	6.50	15	5	ND	3	32	1	2	2	34	.11	.075	22	12	.45	228	.14	4	2.62	.01	.08	3	39
PEL-88-BD-19S	6	19	16	66	.6	3	3	200	11.86	8	5	ND	4	21	1	2	3	86	.08	.088	23	18	.19	77	.25	5	3.30	.01	.05	1	13
PEL-88-BD-20S	3	13	18	52	.5	4	3	314	4.68	6	5	ND	3	52	1	3	2	50	.14	.087	13	15	.57	480	.18	5	2.63	.02	.13	2	41
PEL-88-BD-21S	4	12	20	54	.2	3	2	338	9.38	5	5	ND	4	13	1	2	7	55	.06	.044	24	18	.13	38	.23	2	3.78	.02	.06	1	11
PEL-88-BD-22S	7	18	18	72	.1	5	2	328	8.60	5	5	ND	7	8	1	2	3	62	.09	.037	32	17	.20	18	.42	2	2.80	.05	.09	1	3
PEL-88-BD-23S	4	11	22	52	.4	6	2	289	6.64	11	5	ND	2	37	1	2	2	84	.13	.083	30	22	.46	169	.29	2	1.67	.01	.06	2	45
PEL-88-BD-24S	9	16	27	67	.1	5	2	481	7.18	15	5	ND	11	16	1	2	2	29	.09	.046	34	16	.35	112	.17	3	3.81	.03	.09	1	21
PEL-88-BD-25S	3	25	35	61	.6	7	2	436	2.76	12	5	ND	3	61	1	2	2	33	.19	.052	12	21	.91	632	.11	3	1.60	.01	.17	1	360
PEL-88-BD-26S	5	43	43	55	.1	6	3	335	3.59	9	5	ND	1	44	1	2	2	40	.17	.058	14	18	.62	163	.19	2	1.74	.02	.08	3	138
PEL-88-BD-27S	3	14	38	43	.1	4	1	288	1.93	5	5	ND	1	43	1	2	6	28	.14	.035	11	10	.54	180	.25	2	1.05	.01	.06	2	281
PEL-88-BD-28S	5	81	31	81	.1	7	6	493	7.39	17	5	ND	2	20	1	2	2	68	.33	.081	17	23	.45	54	.32	2	2.90	.03	.08	1	15
PEL-88-BD-29S	4	54	41	85	.9	2	10	966	9.01	43	5	ND	6	11	1	3	2	25	.21	.200	6	14	.40	34	.10	5	1.09	.03	.06	1	34
PEL-88-BD-30S	6	69	32	92	1.0	6	7	611	5.54	19	5	ND	3	23	2	3	2	38	.23	.151	16	18	.58	52	.15	5	3.09	.03	.06	1	58
PEL-88-BD-31S	6	35	36	133	.4	8	13	2449	6.85	27	5	ND	9	24	3	2	2	35	.20	.143	26	14	.41	74	.19	4	3.00	.05	.11	1	22
PEL-88-BD-32S	7	61	33	122	.7	6	13	1473	8.34	34	5	ND	6	35	1	2	2	35	.12	.221	22	16	.56	115	.15	3	2.43	.02	.09	2	69
PEL-88-BD-33S	5	124	30	122	.5	10	19	5486	7.18	17	5	ND	4	28	1	4	9	85	.33	.176	17	20	.61	194	.41	3	3.64	.03	.10	1	17
PEL-88-BD-34S	3	23	21	53	.6	5	3	319	9.14	5	5	ND	3	24	1	2	2	114	.07	.077	11	21	.31	100	.37	2	3.12	.01	.04	1	10
PEL-88-BD-35S	4	25	20	73	.4	10	4	346	5.16	12	5	ND	5	35	1	2	2	62	.22	.120	16	23	.69	91	.29	12	2.56	.05	.10	1	34
PEL-88-BD-36S	4	24	25	74	.4	14	6	386	5.21	17	5	ND	4	43	1	3	2	64	.30	.117	16	25	.83	91	.31	3	2.44	.07	.11	4	38
STD C/AU-S	17	58	39	132	6.7	68	29	1057	3.94	41	18	8	37	47	19	17	19	59	.46	.095	38	56	.87	176	.07	33	1.85	.06	.15	12	50

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPB	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
PEL-88-BD-37S	2	29	27	64	.7	6	8	627	4.62	14	5	ND	3	62	2	3	2	36	.23	.159	14	11	.74	518	.16	2	1.72	.04	.17	1	85
PEL-88-BD-38S	3	44	34	58	.8	3	4	542	7.02	17	5	ND	4	57	1	2	2	34	.16	.212	14	11	.67	545	.14	5	2.03	.02	.17	1	128
PEL-88-BD-39S	3	32	23	83	.5	12	9	555	5.43	15	5	ND	5	92	2	2	2	54	.27	.143	23	17	.78	433	.29	3	2.48	.05	.16	1	36
PEL-88-BD-40S	3	32	21	85	.3	8	7	711	5.23	16	5	ND	5	69	2	3	2	61	.20	.108	31	14	.77	350	.19	2	2.02	.02	.15	1	141
PEL-88-BD-41S	2	44	27	81	.5	15	9	679	5.14	16	5	ND	5	48	1	3	3	49	.24	.155	21	19	.84	383	.25	7	2.30	.04	.16	1	109
PEL-88-BD-42S	4	186	23	76	.3	11	36	3168	7.06	23	5	ND	7	36	2	3	2	87	.14	.206	16	16	.71	112	.19	4	2.26	.02	.10	1	18
PEL-88-BD-43S	1	315	29	62	.5	5	4	781	4.67	18	5	ND	4	48	1	2	3	27	.18	.133	21	7	.72	242	.11	2	1.60	.01	.12	1	45
PEL-88-BD-44S	2	75	26	94	.5	15	14	952	6.28	12	5	ND	7	45	2	2	3	65	.34	.159	18	19	.90	131	.37	3	2.99	.07	.16	1	8
PEL-88-BD-45S	6	24	27	67	.4	5	3	399	8.00	6	5	ND	2	13	1	2	2	48	.08	.074	23	17	.20	34	.16	2	3.78	.02	.06	1	13
PEL-88-BD-46S	8	12	46	52	.5	6	2	244	7.83	15	5	ND	3	18	1	4	2	44	.07	.063	22	19	.25	64	.18	2	2.70	.02	.07	3	11
PEL-88-BD-47S	5	28	93	61	.7	4	3	266	7.23	9	5	ND	2	16	2	3	2	51	.11	.091	14	18	.19	59	.15	4	3.29	.02	.05	1	44
PEL-88-BD-48S	7	13	38	74	.1	6	5	675	6.34	13	5	ND	12	15	1	2	2	24	.16	.064	23	10	.32	55	.17	3	4.77	.08	.09	3	17
PEL-88-BD-49S	6	36	93	62	.7	7	3	324	7.18	13	5	ND	2	26	1	2	3	85	.13	.102	10	20	.34	137	.21	4	2.40	.02	.06	1	26
PEL-88-BD-50S	5	15	44	62	.4	6	2	393	5.85	19	5	ND	4	18	1	2	2	47	.09	.063	15	14	.43	55	.23	3	1.69	.03	.07	2	32
PEL-88-BD-51S	5	29	41	68	.4	9	4	286	6.12	14	5	ND	6	31	1	2	2	68	.26	.090	21	20	.57	37	.37	7	2.92	.09	.11	1	45
PEL-88-BD-52S	4	18	63	77	.1	8	2	464	4.73	24	5	ND	3	38	2	2	2	50	.16	.060	11	22	.83	178	.25	3	2.38	.01	.08	6	96
PEL-88-BD-53S	5	18	18	85	.4	1	1	139	6.92	4	5	ND	3	4	3	2	2	58	.04	.052	27	14	.07	12	.25	3	3.53	.03	.06	1	4
PEL-88-BD-54S	10	50	73	73	.7	6	6	540	6.39	30	5	ND	5	37	1	2	2	60	.12	.169	9	19	.71	214	.37	3	1.67	.01	.12	2	152
PEL-88-BD-55S	6	40	29	76	.5	9	5	608	3.74	13	5	ND	4	61	3	2	2	51	.23	.086	21	22	1.03	141	.18	4	1.79	.01	.08	1	89
PEL-88-BD-56S	17	65	18	84	.6	16	18	643	12.78	17	5	ND	9	26	1	2	2	56	.17	.281	12	22	.71	37	.24	2	2.49	.04	.06	1	77
PEL-88-BD-57S	8	20	37	68	.1	7	3	612	6.40	12	5	ND	11	20	1	2	2	42	.11	.086	18	18	.44	36	.20	3	4.17	.03	.07	1	22
PEL-88-BD-58S	8	33	22	75	.1	2	2	286	7.33	13	5	ND	11	2	2	2	3	25	.05	.059	35	10	.09	7	.16	3	3.80	.08	.11	1	4
PEL-88-BD-59S	8	32	21	62	.3	6	3	248	6.39	13	5	ND	5	26	1	2	2	69	.15	.087	20	22	.55	29	.29	3	3.30	.03	.06	1	41
PEL-88-BD-60S	9	12	34	74	.1	4	4	839	6.79	10	5	ND	12	6	2	2	3	17	.07	.057	32	7	.12	13	.14	2	5.25	.06	.09	1	8
PEL-88-BD-61S	5	16	17	49	.4	5	3	234	3.62	7	5	ND	2	35	1	2	2	59	.16	.110	10	12	.38	42	.17	5	1.98	.02	.06	2	12
PEL-88-BD-62S	8	37	22	65	.3	4	2	245	7.05	6	5	ND	5	8	3	3	2	36	.06	.078	31	9	.15	24	.20	4	4.95	.03	.06	1	2
PEL-88-BD-63S	8	55	33	108	.3	9	9	689	6.14	11	5	ND	6	34	1	2	2	63	.19	.133	21	18	.55	49	.29	2	3.18	.04	.08	1	8
PEL-88-BD-64S	12	82	33	173	.3	8	11	559	5.70	6	5	ND	3	24	2	2	3	63	.15	.078	28	17	.45	39	.25	3	4.06	.03	.06	1	4
PEL-88-BD-65S	11	65	31	259	.1	13	29	737	5.69	7	7	ND	5	26	3	2	2	46	.13	.114	33	16	.48	50	.19	4	4.55	.03	.07	1	14
PEL-88-BD-66S	16	142	18	157	.3	8	18	936	6.76	8	5	ND	6	59	2	2	2	50	.22	.160	21	19	.99	163	.16	2	2.39	.02	.11	1	57
PEL-88-BD-67S	7	32	19	88	.4	32	4	644	3.37	9	5	ND	3	85	1	2	2	49	.37	.162	10	64	1.38	373	.13	2	1.80	.02	.13	1	86
PEL-88-BD-68S	9	111	28	146	.5	15	12	1040	4.89	9	5	ND	6	72	1	2	2	54	.31	.156	15	30	1.24	201	.16	2	2.26	.03	.12	1	58
PEL-88-BD-69S	4	35	41	111	.5	11	3	768	3.52	12	5	ND	4	78	2	2	2	56	.30	.313	24	30	1.30	557	.19	3	1.91	.01	.19	1	89
PEL-88-BD-70S	10	68	22	161	.5	15	23	825	6.22	9	5	ND	6	69	1	2	2	61	.48	.168	17	23	1.15	103	.25	4	2.53	.12	.15	1	116
PEL-88-BD-71S	9	50	27	99	.6	11	10	1060	6.98	15	5	ND	12	19	1	2	2	38	.09	.115	25	19	.44	67	.20	2	3.81	.04	.11	1	37
PEL-88-BD-72S	6	67	44	72	.7	9	4	418	5.18	21	5	ND	4	34	1	5	2	47	.15	.101	15	20	.59	111	.23	2	2.74	.03	.10	4	102
STD C/AU-S	18	60	45	132	6.9	70	30	1022	4.03	44	18	8	38	49	18	19	19	61	.47	.098	40	55	.89	183	.07	33	1.94	.06	.15	12	51

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
PEL-88-BD-73S	8	34	46	103	.7	13	8	751	7.61	28	5	ND	11	33	1	2	2	63	.26	.140	21	22	.68	99	.33	2	3.87	.10	.16	1	218
PEL-88-BD-74S	4	38	37	77	.4	12	4	560	3.99	13	5	ND	4	46	1	2	2	49	.23	.096	26	24	.92	280	.22	2	1.80	.04	.15	1	85
PEL-88-BD-75S	11	67	36	65	.4	6	3	542	10.62	17	5	ND	10	6	1	2	2	54	.05	.093	21	21	.23	20	.24	2	2.94	.04	.08	1	19
PEL-88-BD-76S	8	14	29	81	.1	2	4	1089	7.47	15	5	ND	10	3	1	2	4	19	.04	.049	31	8	.08	8	.16	2	4.11	.05	.09	1	2
PEL-88-BD-77S	9	13	31	75	.1	3	4	1520	7.72	12	5	ND	13	2	1	2	2	18	.04	.039	28	8	.07	8	.17	2	3.28	.07	.11	2	2
PEL-88-BD-78S	7	20	26	81	.3	7	3	448	6.09	14	5	ND	11	5	1	3	2	18	.07	.048	17	8	.19	14	.14	2	4.58	.09	.12	1	13
PEL-88-BD-79S	9	15	25	52	.1	2	1	351	7.95	15	5	ND	7	3	1	2	2	19	.04	.044	23	7	.05	6	.17	2	3.27	.05	.07	1	4
PEL-88-BD-80S	24	175	18	114	.3	5	12	871	6.31	3	5	ND	7	56	1	2	2	51	.21	.221	11	9	1.06	61	.12	3	1.78	.02	.09	1	10
PEL-88-BD-81S	9	68	33	105	.4	11	12	842	7.56	12	5	ND	9	41	1	2	2	51	.28	.122	18	19	.69	67	.25	2	2.79	.09	.11	1	22
PEL-88-BD-82S	5	10	28	77	.1	4	2	386	7.70	17	5	ND	3	4	1	2	2	36	.05	.052	38	19	.11	13	.16	2	4.69	.03	.06	2	4
PEL-88-BD-83S	5	18	22	49	.4	4	2	105	9.11	10	5	ND	4	8	1	2	2	70	.08	.084	25	16	.14	13	.25	2	3.32	.02	.05	3	2
PEL-88-BD-84S	5	43	718	121	1.8	8	2	500	3.17	44	5	ND	3	55	1	2	2	43	.20	.076	9	21	.96	188	.18	2	1.64	.01	.09	6	206
PEL-88-BD-85S	5	15	44	58	.8	6	1	202	3.59	10	5	ND	1	18	1	3	2	69	.10	.059	16	32	.21	37	.17	2	4.36	.01	.04	1	26
PEL-88-BD-86S	4	20	21	68	.1	4	4	223	6.78	9	5	ND	3	13	1	3	4	59	.14	.056	33	18	.21	19	.28	2	5.03	.05	.08	1	1
PEL-88-BD-87S	8	26	28	74	.1	9	5	670	6.03	15	5	ND	7	23	1	2	2	47	.11	.088	18	22	.45	34	.22	3	3.18	.03	.08	2	44
PEL-88-BD-88S	6	16	19	52	.3	7	9	1006	4.27	4	5	ND	2	33	1	2	4	79	.20	.114	8	17	.32	29	.21	2	3.05	.03	.06	1	14
PEL-88-BD-89S	13	110	13	145	.4	8	19	979	5.92	5	5	ND	6	52	1	2	2	40	.29	.144	8	15	.86	60	.09	4	1.22	.02	.05	1	9
PEL-88-BD-90S	8	94	79	180	.6	7	4	567	4.62	13	5	ND	6	56	2	2	4	44	.21	.139	8	24	1.07	139	.17	3	1.62	.01	.08	2	34
PEL-88-BD-91S	7	16	25	65	.1	5	4	519	8.12	13	5	ND	4	8	1	2	3	65	.08	.051	34	16	.17	12	.25	2	3.32	.03	.05	3	4
PEL-88-BD-92S	7	15	28	123	.1	5	6	1573	6.08	11	5	ND	11	2	2	2	2	21	.05	.053	29	7	.15	16	.17	6	4.94	.06	.12	1	4
PEL-88-BD-93S	9	8	28	98	.1	2	2	1034	6.31	17	5	ND	15	2	1	3	2	7	.04	.037	27	3	.05	10	.13	2	5.20	.07	.10	4	4
PEL-88-BD-94S	9	11	18	56	.2	3	3	268	9.37	8	5	ND	5	18	1	2	3	74	.13	.115	26	13	.22	17	.36	2	2.29	.03	.05	1	6
PEL-88-BD-95S	6	15	16	44	.3	3	2	196	6.00	5	5	ND	2	22	1	2	2	54	.11	.063	20	10	.15	13	.20	2	2.64	.01	.03	2	3
PEL-88-BJ-1S	9	82	25	233	.3	10	17	1123	5.67	6	5	ND	3	71	1	2	2	61	.31	.146	13	15	1.00	95	.18	2	2.36	.04	.09	1	15
PEL-88-BJ-2S	11	84	31	209	.3	7	12	1413	6.61	9	5	ND	6	27	1	2	2	44	.12	.097	29	15	.89	46	.16	3	3.86	.04	.08	1	12
PEL-88-BJ-3S	9	57	28	169	.3	9	13	866	4.96	5	5	ND	3	63	2	2	3	64	.33	.114	13	17	.95	85	.19	3	2.62	.06	.10	1	13
PEL-88-BJ-4S	11	108	33	496	.6	21	25	1765	6.44	4	5	ND	4	88	2	2	2	76	.51	.141	10	25	1.46	106	.23	3	2.34	.11	.14	1	15
PEL-88-BJ-5S	11	123	27	735	.8	45	46	2649	7.96	4	5	ND	2	114	2	2	2	93	.93	.179	7	41	2.12	99	.39	2	2.65	.25	.21	1	19
PEL-88-BJ-6S	8	159	23	307	.7	25	23	1607	5.92	2	5	ND	5	89	2	2	2	67	.40	.188	6	31	1.51	75	.17	2	1.88	.04	.08	1	10
PEL-88-BJ-7S	11	215	28	252	.6	16	31	2017	5.98	2	5	ND	5	71	2	2	2	56	.28	.188	10	16	1.20	175	.13	3	1.95	.02	.09	1	12
PEL-88-BJ-8S	11	258	32	259	.6	18	30	1808	6.32	2	5	ND	4	71	2	2	2	58	.39	.166	7	18	1.34	117	.17	2	1.74	.07	.10	1	11
PEL-88-BJ-9S	12	345	37	320	.9	23	44	2802	8.29	2	5	ND	5	70	1	2	2	74	.43	.222	9	23	1.66	162	.21	5	2.21	.10	.12	1	13
PEL-88-BJ-10S	13	213	24	239	.7	8	26	1770	7.94	2	5	ND	8	60	1	2	2	60	.29	.256	7	15	1.44	162	.12	2	1.71	.03	.08	1	17
PEL-88-BJ-11S	12	210	17	221	.4	13	32	2234	7.14	2	5	ND	7	61	2	2	2	59	.43	.204	11	15	1.48	138	.17	3	1.82	.08	.11	1	18
PEL-88-BJ-12S	16	281	32	270	.7	35	42	3075	8.38	2	5	ND	7	47	1	3	2	56	.26	.266	10	16	1.36	133	.10	3	1.92	.03	.08	1	13
PEL-88-BJ-13S	12	131	29	210	.5	9	13	1212	6.39	2	5	ND	7	53	1	2	3	62	.27	.175	6	20	1.42	168	.11	6	1.51	.01	.06	1	8
PEL-88-BJ-14S	15	117	46	177	.2	5	8	857	6.56	5	5	ND	11	57	1	2	3	58	.27	.207	8	12	1.28	93	.10	2	1.43	.02	.07	2	7
STD C/AU-S	17	59	41	132	6.7	68	30	1056	3.86	39	16	8	38	47	18	16	20	59	.46	.094	39	58	.86	176	.07	33	1.86	.06	.15	11	51

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
PEL-88-BJ-15S	26	131	25	160	.3	7	21	1124	8.08	3	5	ND	10	51	1	2	3	50	.22	.225	12	12	1.03	368	.11	8	1.61	.04	.15	1	11
PEL-88-BJ-16S	26	125	36	181	.4	6	20	996	9.61	3	5	ND	10	48	1	2	2	47	.19	.266	9	14	.92	455	.10	2	1.30	.02	.10	1	9
PEL-88-BJ-17S	19	78	18	113	.3	9	14	649	8.95	2	5	ND	10	65	1	2	2	71	.45	.185	6	16	1.21	126	.31	2	1.36	.13	.13	1	6
PEL-88-BJ-18S	22	133	13	134	.2	12	33	1329	8.50	2	5	ND	6	89	1	2	3	80	.80	.204	9	18	1.57	96	.39	2	1.93	.23	.20	1	6
PEL-88-BJ-19S	26	298	19	176	.4	6	24	1136	8.37	3	5	ND	8	56	1	2	4	62	.32	.290	11	12	1.17	91	.15	2	1.85	.05	.10	1	12
PEL-88-BJ-20S	24	480	28	163	.6	10	38	1614	10.16	5	5	ND	9	82	1	2	2	71	.65	.295	8	19	1.42	40	.26	2	2.19	.14	.13	1	18
PEL-88-BJ-21S	4	116	6	161	.3	9	15	1048	6.31	7	5	ND	2	43	1	2	3	69	.26	.105	7	17	.90	35	.24	2	2.79	.02	.06	1	7
PEL-88-BJ-22S	5	119	23	252	.1	13	26	1614	7.86	11	5	ND	2	41	1	2	3	76	.24	.094	8	21	.94	40	.20	2	2.74	.01	.05	1	6
PEL-88-BJ-23S	7	330	55	673	.9	16	42	2406	7.69	19	5	ND	3	50	1	2	2	77	.32	.165	11	23	1.31	61	.30	2	2.81	.06	.11	3	31
PEL-88-BJ-24S	4	165	19	283	.3	12	24	1590	6.73	9	5	ND	1	54	1	2	3	81	.33	.104	10	21	1.18	37	.21	2	3.26	.03	.07	1	13
PEL-88-BJ-25S	3	148	56	351	.6	13	17	1380	6.55	10	5	ND	2	24	1	2	2	103	.18	.087	9	22	.84	30	.40	3	3.04	.03	.06	1	1
PEL-88-BJ-26S	4	194	22	187	.3	17	15	1224	7.26	12	5	ND	4	34	1	2	2	92	.24	.115	15	27	1.06	33	.35	3	3.02	.04	.09	1	4
PEL-88-BJ-27S	5	484	19	258	.7	15	43	2798	7.85	12	5	ND	3	68	1	2	2	65	.36	.157	12	21	1.48	54	.11	5	3.01	.02	.10	1	41
PEL-88-BJ-28S	6	106	24	96	.3	6	5	396	6.90	6	5	ND	2	22	1	2	3	101	.17	.072	14	20	.51	23	.43	2	2.94	.03	.06	1	16
PEL-88-BJ-29S	5	143	26	114	.3	10	11	620	6.42	14	5	ND	2	24	1	2	4	71	.16	.093	16	17	.68	22	.24	2	2.67	.03	.07	2	16
PEL-88-BJ-30S	4	714	21	130	.2	17	18	1290	7.21	10	5	ND	1	38	1	2	3	95	.29	.082	12	25	1.13	30	.24	3	3.52	.04	.08	1	11
PEL-88-BJ-31S	5	155	17	176	.3	11	18	2958	7.16	8	5	ND	1	35	1	2	3	107	.23	.092	8	25	.95	67	.25	3	3.04	.02	.08	1	6
PEL-88-BJ-32S	4	259	17	177	.4	12	20	2280	7.80	10	5	ND	5	38	1	2	3	76	.23	.150	22	23	1.25	42	.21	2	3.82	.03	.11	1	21
PEL-88-BJ-33S	4	203	13	169	.4	15	23	2226	7.59	9	5	ND	3	33	1	2	3	74	.20	.127	17	25	1.16	39	.20	2	3.27	.02	.09	3	41
PEL-88-BJ-34S	6	83	18	122	.3	7	7	784	6.78	7	5	ND	2	14	1	3	2	63	.12	.093	26	17	.43	24	.24	5	3.55	.03	.07	2	8
PEL-88-BJ-35S	6	75	17	172	.3	7	15	1116	7.91	9	5	ND	1	24	1	2	2	111	.23	.079	11	29	.51	34	.28	2	3.04	.01	.06	1	5
PEL-88-BJ-36S	4	167	24	229	.3	20	25	2439	7.86	10	5	ND	1	31	1	2	4	68	.21	.088	16	26	1.22	60	.10	2	3.26	.01	.08	1	21
PEL-88-BJ-37S	5	206	24	216	.4	12	15	3161	8.64	8	5	ND	2	19	1	2	4	94	.14	.142	20	26	.84	69	.22	2	3.23	.02	.07	1	58
PEL-88-BJ-38S	6	275	27	144	1.0	14	36	4005	7.92	16	5	ND	3	22	1	2	2	90	.13	.186	14	26	.73	44	.24	2	3.28	.02	.09	1	28
PEL-88-BJ-39S	6	234	30	185	.6	17	43	4264	9.81	14	5	ND	3	23	1	2	2	58	.16	.252	16	20	.89	73	.13	2	2.19	.03	.11	1	77
PEL-88-BJ-40S	6	338	32	247	.7	24	37	5093	10.71	13	5	ND	5	18	1	2	2	59	.12	.265	30	21	.74	77	.19	2	2.73	.02	.13	1	54
PEL-88-BJ-41S	3	458	36	198	.9	18	37	6735	10.00	15	5	ND	2	26	1	2	2	72	.23	.257	44	20	.73	132	.08	2	2.31	.03	.13	1	47
PEL-88-BJ-42S	4	175	27	102	.6	15	29	9580	5.63	17	5	ND	1	49	3	3	2	31	.44	.310	40	5	.17	295	.01	5	1.43	.02	.21	1	41
PEL-88-BJ-43S	3	349	80	666	1.0	15	24	13396	6.43	9	5	ND	1	46	5	5	2	28	2.91	.216	24	8	.32	154	.01	7	1.06	.01	.13	1	46
PEL-88-BJ-44S	2	205	26	309	.5	20	29	4220	9.52	6	5	ND	1	20	1	2	3	59	.26	.201	14	19	.60	60	.08	2	2.44	.01	.07	1	20
PEL-88-BJ-45S	4	115	40	253	.5	12	24	1993	11.24	12	5	ND	4	17	1	2	2	55	.15	.230	23	17	.44	43	.16	3	2.44	.05	.10	1	35
PEL-88-BJ-46S	2	169	96	322	.8	23	30	1690	9.10	7	5	ND	3	78	1	2	2	87	.88	.142	17	25	1.60	60	.45	2	2.18	.27	.24	1	19
PEL-88-BJ-47S	7	233	173	256	1.5	8	20	2504	10.98	12	5	ND	6	15	1	2	2	45	.10	.285	15	16	.54	41	.15	3	1.66	.03	.15	1	74
PEL-88-BJ-48S	3	243	21	206	1.0	18	29	3162	8.44	10	5	ND	5	58	2	2	2	61	.64	.178	18	14	.77	219	.20	2	1.14	.13	.14	1	45
PEL-88-BJ-49S	5	244	25	140	.8	19	53	3823	13.26	12	5	ND	2	42	1	2	2	92	.28	.260	21	19	.98	99	.04	2	2.44	.01	.08	1	39
PEL-88-BJ-50S	2	442	36	177	.8	136	27	2041	10.24	21	5	ND	1	15	1	3	2	73	.15	.174	23	156	1.02	56	.07	2	2.76	.01	.05	4	36
STD C/AU-S	18	59	40	132	6.7	68	29	1022	4.04	41	17	8	37	48	18	19	18	59	.47	.098	39	56	.86	178	.07	33	1.89	.06	.15	12	52

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
PEL BLO 0+00E	22	1507	645	6241	8.3	23	70	6822	15.87	372	5	ND	4	52	44	2	3	73	.45	.220	15	35	1.31	113	.18	4	2.44	.05	.08	1	485
PEL BLO 0+10E	21	439	217	704	3.2	16	55	2536	10.55	142	5	ND	3	57	4	2	4	64	.39	.206	11	29	1.22	68	.18	7	2.97	.06	.08	3	151
PEL BLO 0+20E	19	460	283	1476	11.2	10	15	2167	23.93	224	5	ND	5	39	7	2	2	60	.18	.199	4	34	.84	74	.20	8	1.20	.01	.07	1	515
PEL BLO 0+30E	9	371	362	556	11.7	12	10	1573	26.46	244	5	ND	6	56	2	3	4	84	.28	.264	6	45	1.01	23	.38	5	1.28	.05	.05	3	1255
PEL BLO 0+40E	15	643	181	305	7.6	13	10	1074	26.84	249	5	ND	6	59	1	3	19	89	.31	.318	4	53	1.02	43	.31	11	1.46	.07	.08	7	355
PEL BLO 0+40E A	6	55	27	164	.1	13	12	973	6.82	18	5	ND	8	32	4	2	3	39	.22	.090	47	16	.61	132	.17	5	3.08	.03	.11	1	25
PEL BLO 0+50E	7	520	160	199	10.2	13	12	1431	17.64	220	5	ND	5	72	2	4	5	98	.39	.257	6	49	1.34	31	.32	5	1.82	.06	.07	8	255
PEL BLO 0+60E	6	193	90	127	4.1	8	10	623	5.33	51	5	ND	3	60	1	3	2	57	.35	.139	7	22	.85	85	.28	5	1.70	.05	.09	1	121
PEL BLO 0+70E	32	568	151	218	3.3	21	91	5594	14.12	137	5	ND	5	84	2	2	2	86	.23	.383	14	41	1.80	56	.23	4	2.95	.03	.07	7	225
PEL BLO 0+70E A	13	557	43	132	2.6	10	39	2057	3.73	18	5	ND	3	36	2	3	3	38	.21	.100	9	15	.51	39	.15	5	5.04	.02	.06	1	315
PEL BLO 0+90E	14	132	56	108	.7	10	11	628	6.24	51	5	ND	4	43	4	2	3	72	.20	.132	13	23	.63	39	.28	5	2.84	.02	.07	1	56
PEL BLO 1+00E	16	172	48	123	1.2	12	32	1094	8.14	61	5	ND	5	60	2	2	3	63	.26	.252	12	23	.95	51	.26	5	2.34	.02	.09	9	72
PEL BLO 1+10E	13	160	46	110	.9	17	31	1029	6.66	38	5	ND	4	120	1	2	2	76	.92	.158	10	24	1.40	105	.40	5	2.26	.22	.20	2	27
PEL BLO 1+20E	17	225	63	113	1.0	15	40	1472	6.62	69	5	ND	4	83	1	2	3	52	.43	.180	11	21	.98	87	.21	3	1.96	.05	.09	8	65
PEL BLO 1+60E	2	59	35	114	.3	18	14	861	5.08	13	5	ND	4	63	2	2	2	64	.53	.108	15	22	1.16	147	.31	7	2.15	.14	.17	1	345
PEL BLO 1+70E	1	57	33	92	.4	10	11	1977	6.51	22	5	ND	4	42	1	2	4	59	.31	.148	14	18	.70	239	.31	8	2.47	.04	.08	1	73
PEL BLO 1+80E	3	33	25	82	.1	12	7	625	5.30	12	5	ND	3	33	1	2	2	61	.25	.072	18	20	.66	82	.27	3	2.92	.06	.09	3	30
PEL BLO 1+90E	3	30	29	85	.2	15	9	372	5.56	10	5	ND	4	52	1	2	2	77	.50	.082	18	24	.99	54	.41	4	2.86	.16	.16	1	62
PEL BLO 2+00E	2	31	25	103	.1	12	6	264	3.85	9	5	ND	4	35	2	2	2	68	.31	.076	20	23	.62	56	.34	4	2.84	.07	.10	1	20
PEL BLO 2+10E	3	83	33	142	.1	24	14	601	5.03	12	5	ND	5	43	1	2	2	69	.41	.131	22	28	1.00	167	.31	5	3.28	.10	.16	1	66
PEL BLO 2+20E	2	39	38	102	.1	16	8	531	4.81	13	5	ND	4	44	1	2	2	55	.30	.102	18	24	.94	132	.29	3	2.03	.06	.14	1	185
PEL BLO 2+50E	3	37	67	69	.2	3	6	619	4.17	17	5	ND	4	42	1	2	3	24	.20	.079	12	9	.59	96	.09	3	1.51	.01	.05	1	88
PEL BLO 2+80E	15	53	26	126	.2	15	16	1317	6.69	12	5	ND	7	84	2	2	2	69	.27	.119	29	20	.85	159	.24	10	2.66	.04	.11	1	625
PEL BLO 2+90E	5	39	24	66	.7	4	6	638	4.20	14	5	ND	3	59	2	2	2	29	.28	.122	11	10	.69	246	.12	4	1.32	.01	.10	1	90
PEL BLO 3+00E	8	57	30	112	.2	12	11	689	5.40	13	5	ND	6	46	1	2	3	42	.27	.123	23	16	.76	164	.22	4	2.14	.05	.11	1	25
PEL BLO 3+10E	7	53	25	117	.2	22	15	752	5.93	10	5	ND	6	44	1	2	2	76	.41	.137	26	27	.96	100	.45	2	2.95	.10	.15	1	97
PEL BLO 3+25E	4	58	24	96	.6	12	11	657	4.96	15	5	ND	6	34	3	2	2	49	.21	.143	22	17	.68	123	.28	4	2.30	.05	.12	1	83
PEL BLO 3+30E	4	37	14	123	.2	18	19	676	6.03	6	5	ND	4	102	2	2	2	90	1.10	.113	17	22	1.53	110	.54	5	2.56	.34	.27	1	20
PEL BLO 3+40E	4	49	20	110	.4	11	10	646	5.67	15	5	ND	6	48	2	2	2	56	.35	.146	17	18	.82	91	.31	3	2.32	.09	.14	1	39
PEL BLO 3+50E	5	78	40	103	.6	9	11	789	6.37	21	5	ND	7	39	3	2	2	37	.19	.161	26	12	.59	150	.20	5	2.04	.06	.11	1	157
PEL BLO 3+60E	6	125	17	99	.2	7	14	800	6.12	18	5	ND	4	69	1	2	2	64	.27	.186	14	14	.67	70	.19	2	1.94	.02	.07	1	42
PEL BLO 3+70E	3	60	28	70	.7	6	8	614	6.19	24	5	ND	4	45	1	2	2	34	.23	.179	11	10	.66	137	.19	4	1.38	.04	.10	1	43
PEL BLO 3+75E	1	62	26	80	.3	9	10	689	5.38	18	5	ND	4	45	1	2	2	40	.26	.130	15	12	.75	156	.22	4	1.80	.06	.13	1	35
PEL BLO 3+80E	2	40	34	84	.4	12	14	812	5.94	18	5	ND	4	53	1	2	2	50	.40	.128	16	15	.92	135	.28	2	1.91	.09	.15	1	59
PEL BLO 3+90E	3	34	27	96	.3	9	13	864	5.87	20	5	ND	6	39	2	2	2	41	.23	.127	19	15	.76	155	.21	2	2.16	.05	.14	1	21
PEL BLO 4+00E	2	36	31	77	.5	5	8	886	5.18	23	5	ND	3	39	1	3	2	31	.16	.150	23	11	.62	251	.16	2	1.81	.02	.15	3	15
STD C/AU-S	18	61	38	133	6.8	68	30	1022	4.04	43	18	8	37	49	18	16	19	60	.47	.094	40	55	.89	182	.07	33	1.92	.06	.15	12	51

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
PEL BLO 4+10E	3	41	38	84	.7	10	9	649	6.80	32	5	ND	4	36	3	2	2	37	.20	.187	10	13	.64	61	.18	4	1.50	.03	.07	1	72
PEL BLO 4+20E	3	35	29	88	.6	11	12	745	5.07	19	5	ND	3	51	4	2	2	46	.40	.127	11	14	.90	123	.23	4	1.44	.10	.12	1	20
PEL BLO 4+25E	2	36	32	94	.3	17	8	476	5.36	13	5	ND	6	33	3	2	2	64	.25	.142	16	24	.78	103	.41	5	2.31	.06	.16	1	15
PEL BLO 4+30E	1	48	41	86	.8	7	8	580	5.93	21	5	ND	4	41	3	2	2	35	.20	.153	12	13	.66	432	.19	3	1.67	.04	.12	2	25
PEL BLO 4+40E	2	26	21	86	.4	9	8	514	5.00	14	5	ND	5	33	3	2	2	44	.20	.104	18	14	.61	178	.26	2	2.40	.04	.12	1	28
PEL BLO 4+50E	4	27	24	91	.4	12	9	576	6.23	15	5	ND	5	28	3	2	2	44	.15	.117	24	18	.53	95	.19	6	2.64	.03	.08	2	10
PEL BLO 4+75E	2	67	23	73	.3	12	16	1127	4.52	15	5	ND	3	50	3	2	2	31	.30	.121	8	12	.76	89	.10	2	1.41	.03	.07	1	18
PEL BLO 5+00E	4	53	19	152	.4	31	15	1071	5.19	15	5	ND	5	38	2	2	2	37	.22	.129	22	16	.76	105	.17	2	2.18	.02	.09	1	13
PEL LOE 1+00N	15	368	590	691	3.4	15	32	5048	14.21	235	5	ND	4	44	4	2	2	88	.21	.197	6	57	1.33	29	.23	6	2.32	.01	.05	2	475
PEL LOE 0+75N	20	687	574	939	7.7	13	22	3238	20.36	299	5	ND	3	41	3	3	2	77	.19	.256	5	53	1.05	96	.25	3	1.59	.01	.06	3	455
PEL LOE 0+50N	2	143	220	871	4.1	7	10	1235	8.39	120	5	ND	2	33	8	3	2	77	.30	.093	6	15	.40	40	.40	5	.89	.04	.06	1	285
PEL LOE 0+25N	19	1413	536	2434	7.2	21	83	8867	16.13	388	5	ND	3	45	23	2	3	75	.28	.257	11	39	1.37	89	.20	4	2.39	.06	.07	4	385
PEL L1E 2+25N	1	32	25	110	.3	6	6	664	5.33	8	5	ND	2	26	2	2	2	115	.23	.052	8	19	.43	63	.61	2	1.63	.04	.06	1	10
PEL L1E 2+00N	2	34	18	70	.2	5	8	720	4.23	13	5	ND	1	31	1	2	2	34	.19	.074	11	10	.48	70	.09	3	1.80	.01	.04	1	43
PEL L1E 1+75N	2	27	20	65	.3	6	8	473	5.42	15	5	ND	1	30	2	2	2	55	.24	.062	14	18	.54	64	.21	2	2.31	.05	.06	1	57
PEL L1E 1+50N	3	23	34	61	.4	5	7	733	4.76	23	5	ND	2	26	3	2	2	40	.14	.109	9	13	.49	41	.16	2	1.86	.01	.04	1	245
PEL L1E 1+25N	2	25	15	62	1.0	5	6	529	5.91	9	5	ND	2	21	2	2	2	76	.19	.105	8	15	.41	36	.40	4	3.14	.03	.05	1	32
PEL L1E 1+00N	4	25	28	59	.9	5	2	220	5.73	7	5	ND	2	8	1	2	2	50	.08	.049	26	12	.18	17	.27	3	2.48	.03	.05	1	6
PEL L1E 0+75N	4	49	75	90	.5	7	11	2105	7.16	23	5	ND	6	28	2	2	2	33	.11	.091	15	14	.63	99	.12	2	2.25	.01	.08	3	29
PEL L1E 0+50N	4	58	33	98	.5	11	12	656	6.35	17	5	ND	5	48	3	2	2	61	.39	.114	15	21	1.00	76	.28	4	2.45	.11	.14	1	41
PEL L1E 0+25S	14	167	57	112	.9	10	26	1188	7.32	85	5	ND	3	50	3	2	2	61	.24	.167	10	24	.82	42	.20	3	2.00	.03	.07	6	85
PEL L1E 0+50S	3	73	40	79	4.0	6	5	334	4.99	34	5	ND	2	27	3	2	2	52	.18	.095	8	15	.50	56	.15	4	1.38	.03	.10	1	36
PEL L1E 0+75S	4	28	30	73	2.4	5	2	97	4.33	11	5	ND	2	18	1	3	2	84	.16	.060	11	16	.20	41	.38	3	2.27	.02	.04	1	19
PEL L1E 1+00S	7	33	39	95	1.2	5	6	608	7.89	13	5	ND	3	10	2	2	2	51	.06	.056	27	14	.17	25	.24	4	2.52	.03	.07	1	16
PEL L1E 1+25S	3	21	37	69	.9	6	2	426	4.94	9	5	ND	1	21	1	2	2	62	.11	.089	12	19	.62	83	.22	2	2.11	.01	.06	1	23
PEL L1E 1+50S	5	64	40	108	.5	10	4	355	5.12	12	5	ND	4	22	1	2	2	54	.12	.084	19	21	.58	131	.24	2	2.87	.04	.11	1	31
PEL L2E 2+50N	35	255	28	77	1.1	6	24	1003	8.94	31	5	ND	2	32	2	2	8	63	.48	.145	9	17	.48	18	.22	3	1.80	.01	.03	3	162
PEL L2E 2+25N	14	127	23	86	1.7	10	25	4733	8.80	15	5	ND	1	35	1	2	2	71	.36	.107	10	17	.51	53	.15	2	2.35	.01	.03	1	69
PEL L2E 2+00N	42	240	25	98	6.7	16	56	3244	13.70	21	5	ND	4	37	1	2	2	58	.26	.207	10	20	.62	36	.17	4	2.02	.01	.04	6	245
PEL L2E 1+75N	7	129	23	109	.9	36	129	4934	10.07	22	5	ND	4	51	1	2	2	71	.29	.342	8	35	1.58	90	.16	3	2.56	.04	.08	2	225
PEL L2E 1+50N	3	63	23	81	.3	9	11	545	5.17	10	5	ND	5	30	1	2	2	46	.18	.139	15	16	.65	54	.21	2	2.28	.03	.09	1	68
PEL L2E 1+25N	9	90	21	105	.3	10	16	936	6.43	17	5	ND	3	41	1	2	2	34	.18	.175	16	15	.71	108	.13	2	1.72	.02	.09	1	72
PEL L2E 0+25N	4	58	25	117	.3	15	15	1037	5.91	13	5	ND	6	34	1	2	2	74	.24	.134	20	26	.75	80	.38	2	3.32	.05	.11	1	79
PEL L2E 0+25S	2	40	25	101	.5	15	8	484	4.35	10	5	ND	4	43	1	2	2	68	.36	.116	15	26	.90	130	.41	2	2.64	.08	.16	1	63
PEL L2E 1+25S	29	281	420	503	3.6	33	67	5508	13.92	84	5	ND	6	8	3	2	2	77	.08	.453	10	80	1.93	20	.15	2	3.01	.01	.04	1	119
PEL L2E 1+50S	2	21	31	65	.2	8	3	278	4.81	12	5	ND	2	23	1	4	3	75	.18	.062	14	21	.47	60	.40	2	2.82	.03	.07	3	31
STD C/AU-S	17	57	43	133	6.6	67	29	1047	3.94	41	17	7	37	47	18	20	17	58	.87	.092	38	58	.86	175	.07	33	1.88	.06	.15	11	51

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
PEL L2E 1+75S	1	107	41	138	1.3	20	77	4359	15.10	166	5	ND	6	62	2	4	6	108	.41	.601	12	57	2.43	24	.23	6	2.95	.02	.04	1	88
PEL L2E 2+00S	5	17	24	68	.4	6	3	237	3.73	12	5	ND	2	13	3	3	2	33	.08	.058	27	15	.28	44	.16	6	2.82	.04	.08	1	15
PEL L2E 2+25S	7	11	22	97	.2	3	4	997	6.21	12	5	ND	8	2	3	2	2	12	.04	.052	37	6	.06	14	.12	3	4.45	.07	.11	1	3
PEL L2E 2+50S	5	12	22	82	.7	3	2	374	8.59	10	5	ND	3	3	4	3	2	30	.04	.036	39	11	.04	12	.16	5	3.88	.04	.07	1	3
PEL L3E 2+50N	7	12	34	73	.8	4	2	346	8.27	14	5	ND	5	4	2	3	2	20	.04	.054	31	11	.06	12	.14	6	3.61	.05	.08	2	1
PEL L3E 2+25N	5	12	21	56	.5	2	1	160	6.51	9	5	ND	4	3	4	2	2	25	.04	.074	38	8	.04	18	.16	4	4.38	.05	.07	1	1
PEL L3E 2+00N	3	44	30	62	.7	9	8	527	6.02	18	5	ND	1	47	1	2	2	50	.46	.215	8	14	.54	45	.18	2	1.52	.07	.07	1	33
PEL L3E 1+50N	6	40	27	61	1.0	5	7	586	7.52	25	5	ND	4	35	1	2	2	46	.25	.156	12	14	.49	70	.20	2	2.11	.05	.07	1	46
PEL L3E 1+25N	8	70	32	81	1.1	10	12	656	8.35	26	5	ND	6	84	2	4	3	58	.35	.221	20	21	.68	67	.26	6	2.70	.10	.13	2	37
PEL L3E 1+25N A	3	31	25	62	1.0	4	4	337	7.96	16	5	ND	2	32	2	2	2	36	.15	.160	5	10	.31	70	.11	5	1.23	.01	.05	1	12
PEL L3E 1+00N	6	85	30	68	.8	8	10	732	7.63	31	5	ND	5	51	1	2	2	42	.24	.270	11	13	.72	76	.20	3	1.54	.03	.08	1	79
PEL L3E 0+75N	6	34	31	69	.4	8	5	323	5.90	15	5	ND	6	27	3	2	2	66	.18	.103	22	14	.46	42	.25	6	3.03	.05	.08	1	60
PEL L3E 0+30N	10	61	22	86	.1	9	16	1733	5.13	20	5	ND	1	47	2	2	2	25	.22	.147	28	12	.65	127	.10	2	2.52	.02	.09	1	120
PEL L3E 0+25N	6	63	27	89	.5	13	13	788	4.96	15	5	ND	4	45	2	2	2	50	.31	.116	16	18	.74	88	.27	5	2.04	.07	.11	1	128
PEL L4E 2+50N	7	43	24	95	1.1	6	4	297	6.46	12	5	ND	1	13	2	2	2	37	.10	.079	54	10	.18	33	.18	3	3.43	.03	.06	3	11
PEL L4E 2+25N	5	43	22	95	.4	7	3	226	5.76	10	5	ND	2	15	2	3	3	45	.13	.079	26	13	.24	28	.23	4	3.15	.04	.07	1	10
PEL L4E 2+00N	4	18	18	96	1.1	5	4	308	6.32	9	5	ND	1	19	1	3	3	67	.13	.065	28	17	.24	26	.22	2	2.38	.02	.04	2	4
PEL L4E 1+75N	6	18	15	87	.8	7	4	298	6.88	8	5	ND	2	12	2	2	2	109	.08	.040	13	12	.18	20	.48	2	1.07	.02	.04	1	1
PEL L4E 1+50N	8	16	12	104	1.1	4	6	1525	9.57	10	5	ND	3	7	3	3	2	50	.06	.111	20	12	.12	13	.21	7	1.78	.05	.09	1	1
PEL L4E 1+25N	7	14	24	67	1.0	5	2	172	5.02	6	5	ND	1	15	2	2	2	63	.08	.065	16	8	.13	21	.25	5	1.09	.02	.05	1	4
PEL L4E 1+00N	3	46	16	81	.5	2	6	716	5.03	14	5	ND	4	31	1	2	2	36	.16	.108	20	10	.48	97	.16	4	2.84	.02	.09	1	17
PEL L4E 0+75N	8	17	22	93	.4	11	4	267	5.89	12	5	ND	7	8	3	2	2	27	.09	.079	19	14	.31	89	.17	3	4.24	.04	.07	1	3
PEL L4E 0+50N	2	33	30	79	.7	9	5	451	4.77	20	5	ND	4	33	2	2	2	49	.17	.118	16	15	.65	129	.26	3	2.37	.02	.09	1	30
PEL L4E 0+25N	4	40	26	88	.5	10	9	762	4.95	16	5	ND	4	40	2	2	2	38	.19	.132	15	14	.71	138	.18	4	1.89	.02	.11	1	71
PEL L5E 1+50N	4	18	19	75	1.8	9	13	1006	4.67	3	5	ND	1	27	1	2	2	105	.14	.075	16	26	.37	42	.27	3	2.40	.02	.05	1	22
PEL L5E 1+25N	5	10	16	77	1.0	7	4	256	3.83	5	5	ND	1	20	3	2	2	80	.18	.073	16	14	.30	25	.29	3	1.60	.04	.08	1	4
PEL L5E 1+00N	5	47	33	97	.7	19	16	855	6.46	7	5	ND	3	51	1	2	2	75	.35	.176	13	29	.91	63	.21	2	2.71	.07	.12	1	17
PEL L5E 0+75N	6	46	32	97	.6	21	19	881	6.93	8	5	ND	4	50	2	2	2	72	.35	.164	10	32	1.26	39	.23	3	2.42	.07	.11	1	31
PEL L5E 0+50N	2	35	17	58	.5	8	8	620	8.00	14	5	ND	3	68	1	2	2	36	.31	.124	10	12	.81	149	.10	4	1.59	.01	.10	1	45
PEL L6E 2+50N	6	18	24	56	.3	6	10	304	4.06	9	5	ND	1	38	1	2	2	88	.20	.050	7	11	.40	60	.19	2	2.16	.01	.04	1	15
PEL L6E 2+25N	1	7	10	52	.2	3	3	215	1.71	2	5	ND	1	17	1	2	3	98	.18	.038	4	10	.19	53	.67	2	.65	.03	.04	1	3
PEL L6E 2+00N	2	9	24	45	.2	3	3	100	1.46	2	5	ND	1	23	1	2	2	91	.16	.033	4	8	.14	35	.66	2	.57	.02	.03	1	1
PEL L6E 1+75N	1	11	10	91	.2	7	10	881	3.36	3	5	ND	1	34	1	2	2	55	.51	.097	5	8	.94	65	.11	2	1.35	.03	.10	3	7
PEL L6E 1+50N	4	13	27	87	1.1	7	9	984	4.31	5	5	ND	1	25	2	2	2	94	.18	.053	6	11	.37	67	.21	3	1.30	.01	.05	2	11
PEL L6E 1+25N	3	32	18	90	.6	7	8	1052	6.17	9	5	ND	1	29	1	2	2	79	.19	.144	8	21	.42	52	.13	2	1.39	.02	.04	1	14
PEL L6E 1+00N	8	82	21	92	.6	17	13	752	10.22	21	5	ND	1	26	1	2	2	85	.15	.438	12	35	.97	19	.13	2	3.10	.02	.05	2	33
STD C/AU-S	18	58	39	132	6.6	68	29	1037	3.83	39	18	6	37	67	19	16	18	57	.46	.094	38	57	.85	174	.07	33	1.80	.06	.14	12	53

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
PEL L6E 0+75N	9	39	21	95	.9	10	13	686	7.71	13	5	MD	7	24	2	2	2	56	.17	.140	29	22	.48	36	.27	4	4.16	.06	.10	1	47
PEL L6E 0+50N	6	45	23	94	.6	21	22	875	8.51	10	5	MD	5	87	2	2	2	86	.74	.158	12	32	1.29	61	.45	5	2.80	.20	.20	1	12
PEL L7E 2+50N	7	78	27	134	2.3	18	50	3502	8.98	32	5	MD	4	59	1	5	7	78	.60	.139	12	31	1.17	102	.40	8	2.93	.16	.17	1	21
PEL L7E 2+25N	4	15	28	64	.5	6	6	264	6.61	14	5	MD	2	28	2	3	2	97	.15	.043	19	15	.23	27	.31	4	2.14	.01	.04	2	12
PEL L7E 2+00N	2	20	6	66	.2	5	8	418	4.96	10	5	MD	2	66	2	2	2	72	.32	.080	22	14	.46	78	.24	3	1.69	.03	.04	1	10
PEL L7E 1+75N	2	7	42	69	.4	3	1	71	1.12	2	5	MD	1	21	1	2	8	71	.18	.056	7	6	.10	65	.57	3	.60	.01	.05	1	11
PEL L7E 1+50N	6	20	19	108	.4	4	2	625	4.73	11	5	MD	3	7	2	5	2	32	.08	.073	29	8	.12	21	.25	4	4.05	.07	.10	2	12
PEL L7E 1+25N	5	28	19	94	.4	3	3	222	4.84	11	5	MD	4	16	1	2	2	36	.15	.079	37	11	.35	36	.27	4	4.89	.08	.11	2	4
PEL L7E 1+00N	1	12	17	72	.2	7	8	344	3.38	13	5	MD	1	51	1	2	2	51	.28	.063	11	14	.57	53	.12	4	1.89	.02	.05	3	22
PEL L7E 0+75N	3	16	19	70	.1	8	6	323	3.63	11	5	MD	1	51	1	2	2	62	.31	.065	13	18	.62	58	.22	2	2.59	.04	.07	1	10
PEL L8E 2+50N	3	43	19	59	1.7	6	3	456	7.21	10	5	MD	2	13	1	3	7	65	.13	.069	24	19	.22	36	.31	8	3.39	.03	.05	2	7
PEL L8E 2+25N	2	43	16	59	.5	8	8	1027	6.64	6	5	MD	3	31	1	3	2	140	.26	.070	13	24	.48	52	.66	4	3.22	.03	.05	2	9
PEL L8E 2+00N	1	70	24	35	.1	5	1	93	1.53	6	5	MD	2	15	1	2	2	124	.10	.091	22	24	.19	63	.70	4	5.32	.02	.04	1	12
PEL L8E 1+75N	3	5	33	26	.3	2	2	135	2.34	3	5	MD	1	22	1	2	2	107	.12	.031	12	7	.09	32	.51	2	1.22	.01	.03	3	9
PEL L8E 1+50N	3	12	20	44	.2	3	2	253	4.23	3	5	MD	1	21	1	2	2	133	.12	.063	19	21	.36	32	.52	3	2.36	.02	.03	2	6
PEL L8E 1+25N	3	17	11	79	.4	6	10	2856	5.36	4	5	MD	1	21	1	2	2	122	.17	.106	8	14	.52	106	.13	4	2.04	.01	.07	1	2
PEL L8E 1+00N	2	8	17	38	.2	4	3	175	3.66	5	5	MD	1	23	1	2	3	125	.16	.059	7	13	.18	41	.57	2	1.27	.01	.03	1	6
PEL L8E 0+75N	2	18	18	49	.7	7	6	626	4.43	8	5	MD	1	21	1	2	2	107	.14	.083	8	15	.27	76	.44	2	1.71	.02	.05	1	7
PEL L8E 0+50N	1	64	26	51	.6	5	3	262	4.29	6	5	MD	1	24	1	2	2	82	.16	.066	14	17	.25	60	.38	2	2.93	.02	.04	1	13
PEL L8E 0+25N	1	15	13	50	.2	7	6	315	2.82	6	5	MD	1	49	1	2	2	56	.37	.075	10	15	.56	105	.24	8	2.18	.06	.07	1	10
PEL L9E 2+25N	1	49	17	54	.4	8	11	656	4.08	15	5	MD	1	69	1	2	2	67	.45	.073	10	16	.68	89	.19	2	2.25	.05	.07	1	73
PEL L9E 2+00N	1	51	28	46	.7	6	8	443	3.34	13	5	MD	1	52	1	2	2	63	.32	.085	9	14	.37	92	.19	3	1.67	.01	.05	2	18
PEL L9E 1+75N	3	59	21	49	.3	9	10	489	4.26	23	5	MD	1	89	1	2	2	41	.44	.048	8	14	.79	59	.05	2	2.02	.01	.04	1	52
PEL L9E 1+50N	4	18	16	59	.2	7	8	457	5.35	19	5	MD	1	67	1	2	2	56	.34	.040	13	19	.62	61	.18	2	2.53	.01	.04	1	13
PEL L9E 1+25N	6	13	20	64	.1	2	2	451	6.99	9	5	MD	7	5	2	2	2	69	.05	.064	43	12	.09	17	.35	2	4.97	.04	.08	1	4
PEL L9E 1+00N	5	21	23	77	.1	7	7	851	5.70	17	5	MD	6	27	2	2	2	45	.16	.062	27	13	.34	24	.27	4	3.44	.04	.08	1	21
PEL L9E 0+75N	2	16	22	68	.1	8	10	771	3.39	11	5	MD	3	80	1	2	2	41	.40	.040	12	12	.72	35	.14	3	2.37	.01	.04	1	172
PEL L9E 0+50N	2	17	22	67	.3	8	5	255	8.53	11	5	MD	6	19	1	7	4	89	.21	.066	37	26	.42	25	.55	3	5.37	.05	.06	1	3
PEL L9E 0+25N	3	12	8	51	.6	3	6	922	6.94	9	5	MD	1	49	1	2	2	88	.24	.041	10	16	.23	47	.31	2	2.64	.01	.03	2	9
STD C/AU-S	18	60	38	129	7.1	67	30	1018	4.13	43	23	8	40	48	21	37	19	61	.48	.100	42	55	.88	176	.07	34	2.02	.06	.16	13	53

A P P E N D I X IV

COST SUMMARY

COST SUMMARY

PELICAN PROPERTY - 1988 PROGRAM

Gossan 1-9, 22, 25

Liard M.D.

WAGES		
D. Gorc - August 16, 17, 20, 24, 1988 September 7, 12, 15, 1988 June 1, 2, 1989	$1,665.00	
M. Jones - August 23 - September 16, 1988	4,125.00	
D. Johannessen - August 23-31, 1988 September 3-13, 1988	2,000.00	
L. Lay - August 16, 17, 30, 31, 1988	400.00	
E. DeBock - September 5, 1988	265.00	$8,455.00
ACCOMMODATION - TRAVEL		
Airline tickets Vancouver - Smithers return M. Jones, D. Johannessen	$ 840.00	
Air Freight - Passengers (Smithers - Bronson Strip)	1,451.00	
Travel Expenses (Hotel, Taxi, etc)	100.00	2,391.00
HELICOPTER		
Northern Mountain Helicopters - 14.4 hrs		9,364.75
EQUIPMENT		
Supplies and Equipment	$1,000.00	
Expeditor	350.00	
Freight Charges - Field Gear (Vancouver - Smithers return)	300.00	
Food Purchases (fly camp)	769.60	2,419.60

GEOPHYSICS (SJV Consultants Ltd.)

VLF electromagnetic and magnetometer surveys	$1,680.00	
Geophysicist, technician Computer and software 6 man-days		
Expenses	300.00	1,980.00

GEOCHEMICAL (Acme Laboratories)

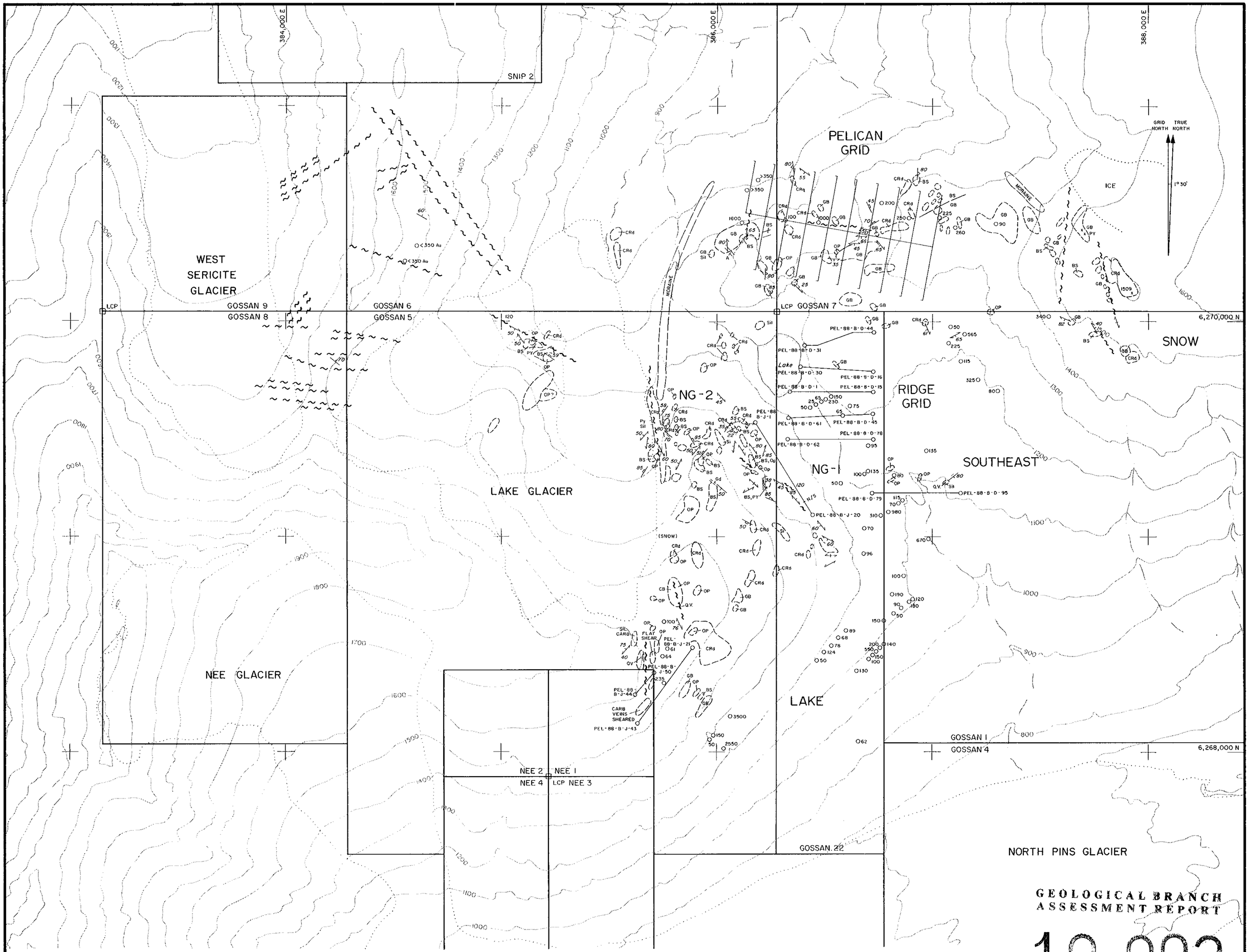
237 rock samples analyzed for gold by AA and 30 element ICP	$2,932.87	
383 soil samples analyzed for gold by AA and 30 element ICP	3,998.52	
Shipping	200.00	7,131.39

MISCELLANEOUS

Report (typing, drafting, computer, etc.)	1,500.00

SUMMARY

WAGES	$ 8,455.00
ACCOMMODATION - TRAVEL	2,391.00
HELICOPTER	9,364.75
EQUIPMENT	2,419.60
GEOPHYSICS	1,980.00
GEOCHEMICAL	7,131.39
MISCELLANEOUS	1,500.00
	$33,241.74



GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,002

LEGEND

LOWER UNITS

- GB — GREEN VOLCANIC UNIT
- BS — BANDED SILTSTONE UNIT
- BA — BLACK ARGILLITE UNIT

INTRUSIVE ROCKS

- A — ALKALI BASALT DYKES
- OP — ORTHOCLASE PORPHYRY
- Gd — GRANODIORITE DYKES AND STOCKS
- CRd — GRANODIORITE, DIORITE AND SYENITE DYKES AND STOCKS

ALTERATION

- Si — SILICIFICATION AND INTENSE QUARTZ VEINING
- Py — PYRITE

SYMBOLS

- FAULT
- GEOLOGICAL CONTACT, DASHED WHERE INFERRED
- OUTCROPS EXAMINED DURING MAPPING
- FOLIATION OR FRACTURES, SHOWING DIP
- BEDDING, SHOWING DIP
- VEIN, SHOWING DIP
- JOINT, SHOWING DIP
- UTM CO-ORDINATES
- ANOMALOUS PREVIOUS SOIL SAMPLE
  SOIL SAMPLE SITE
  LONESTAR RESOURCES (1983)
  GOLD VALUE ppb
- SOIL SAMPLE LINES

CATHEDRAL GOLD CORPORATION

PELICAN

LIARD, M.D.

FIGURE 5 — N.T.S. 104B/10W

LAKE, PELICAN, SNOW, SOUTHEAST ZONES
GEOLOGY

metres 0 — 200 — 400 — 600 — 800 metres

SCALE:	1:10,000	GEOLOGIST:	D. GORC
DATE:	JUNE, 1989	DRAWN BY:	J. CORKUM

384,000 E

386,000 E

388,000 E

SNIP 2

PELICAN

ICE

GRID NORTH

TRUE NORTH

1° 30'

WEST SERICITE GLACIER

LCP

GOSSAN 9

GOSSAN 8

GOSSAN 6

GOSSAN 5

LCP

GOSSAN 7

6,270,000 N

SNOW

Lake

NG-2

LAKE GLACIER

NG-1

SOUTHEAST

NEE GLACIER

LAKE

NEE 2

NEE 1

NEE 4

LCP NEE 3

GOSSAN 22

GOSSAN 1

GOSSAN 4

6,268,000 N

NORTH PINS GLACIER

GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,002

CATHEDRAL GOLD CORPORATION

PELICAN

LIARD, M.D.

FIGURE 6 — N.T.S. 104B/10W

LAKE, PELICAN, SNOW, SOUTHEAST ZONES

ROCK SAMPLE LOCATIONS

metres 0 200 400 600 800 metres

SCALE: 1:10,000	GEOLOGIST: D. GORC
DATE: JUNE, 1989	DRAWN BY: J. CORKUM