86-13-14424

GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL AND PROSPECTING REPORT

PETEKA 1 TO 4 CLAIMS

Latitude 56° ~~00~~ 09.5' North
Longitude 126° ~~50~~ 57' West

N.T.S. 94D/2W
Omineca Mining Division
British Columbia

for

Owner/Operator: Suncor Inc., Resources Group
Calgary, Alberta

Submitted by:

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INTRODUCTION

The Peteka 1 to 4 Claims were staked in August 1984 and recorded on September 7, 1984. Preliminary sampling and prospecting were completed in August and September 1984.

In 1985 an exploration program including geological mapping, prospecting, geochemical soil sampling and geophysical surveys as completed to follow up the 1984 program.

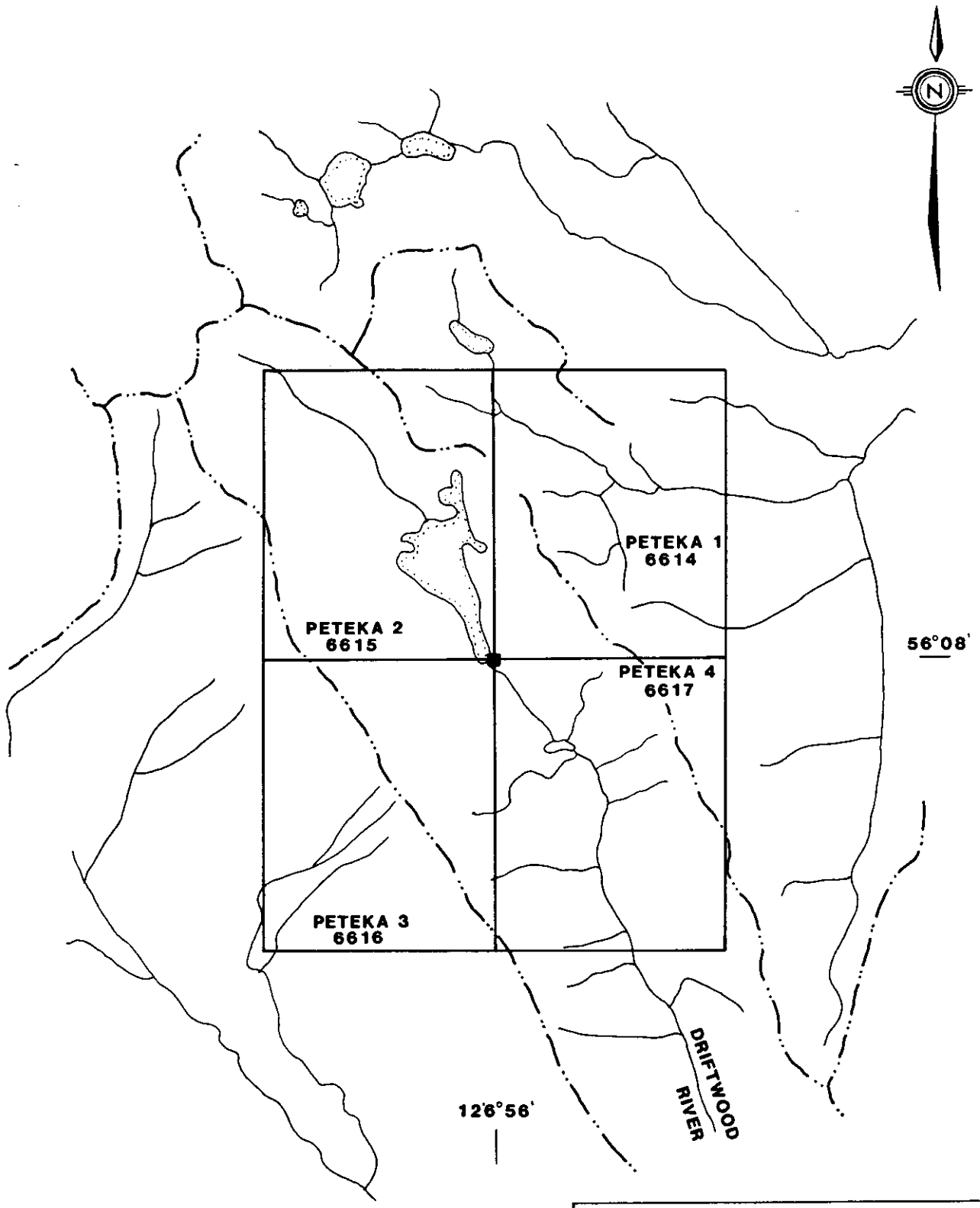
This report discusses the results of the 1985 exploration program.

LOCATION AND ACCESS

The Peteka 1 to 4 claims are located within the Omineca Mining Division in NTS map area 94D/2W. The claims are situated at the head waters of the Driftwood River about 5 kilometers west of Bear Lake and approximately 160 km north of the town of Smithers, B.C.

The approximate geographical coordinates of the Peteka claims is 56°08' north latitude and 126°56' west longitude.

Access to the property is via helicopter. The abandoned British Columbia Railway between Fort St. James and Bear Lake is situated approximately 6.5 km east of the property.



Suncor Inc Resources Group

COAL AND MINERALS DEPARTMENT

BEAR LAKE PROJECT

PETEKA CLAIM MAP

DATE	SCALE	N.T.S.	DRAWING No.
DEC. 85	1:50 000	94D/2,3	

PROPERTY AND OWNERSHIP

The Peteka 1 to 4 claims are located within the Omineca Mining Division and are 100% owned by Suncor Inc. Resources Group of Calgary, Alberta.

The Peteka 1 to 4 claims consist of the following

Claim	Units	Record	Date of Record
Peteka 1	20	6614	September 7, 1984
Peteka 2	20	6615	September 7, 1984
Peteka 3	20	6616	September 7, 1984
Peteka 4	20	6617	September 7, 1984

PHYSIOGRAPHY AND TOPOGRAPHY

The Peteka claims are for the most part located above tree line and the vegetation consists mainly of small shrubs and grasses. However, a portion of the Peteka 4 claim covers part of the Driftwood River valley, this area is covered with spruce and small pine trees.

Topography of the Peteka claims is mountainous with an elevation maximum of 1900 meters, minimum of 1250 metres in the Driftwood River Valley and the northeast corner of Peteka 2. The mountains have steep talus slopes and sharp peaks west of the Driftwood River and are not traversable in many areas.

Glaciation on the Peteka Claims has between extensive with the deep cut river valley and cirques. Several small glaciers still remain on the mountains west of the headwaters of the Driftwood River.

PREVIOUS WORK

Very little previous work has been completed on the Peteka Claims, a brief summary of the previous work history of the Peteka Claims follows:

1948: Lord, C.S.; Geological Survey of Canada, Memoir 251, McConnell Creek Map-Area, Cassiar District, British Columbia, Report on geological mapping program by C.S. Lord 1941, 1944, and 1945 of McConnell Creek map-area.

1973: Preliminary exploration on portions of the Peteka claims by the Canadian Nickel Company.

1984: Preliminary prospecting by Suncor Inc. Resources of the Peteka Claims.

EXPLORATION PROGRAM 1985

The 1985 exploration program was designed to follow-up the 1984 preliminary prospecting and rock sampling program.

The 1985 program consisted of detailed prospecting, soil geochemistry survey, VLF-EM geophysical survey, rock sampling and geological mapping.

The work was helicopter supported from a base camp located on the Bear Lake airstrip located approximately 10 km northeast of the Peteka 1 to 4 Claims.

Work on the Peteka 1 to 4 Claims was completed on various dates between July 15, 1985 and August 25, 1985.

TABLE 1 - SUMMARY OF EXPENDITURES

PERSONNEL

C. Hartley	geologist	8 day x 135.50	$1,084.00
A. Smith	geologist	5 day x 135.50	677.50
W. Fisher	prospector	4 day x 123.72	494.88
I. Simpson	geological assistant	21 day x 72.49	1,522.29
S. Scott	geological assistant	11 day x 71.49	786.39
B. Dale	Geological assistant	14 days x 60.88	852.32
M. McDonagh	cook	21 days x 109.80	2,305.80

TRANSPORTATION

Fixed wing support mob-demob - prorated	1,554.39
Travel expenses prorated	709.10
Fixed wing support direct costs	1,721.09
Helicopter 29.5 hours x $480.00/hour	$14,160.00

CAMP SUPPORT

Camp accommodation equipment & supplies $50 manday X 84 days	4,200.00

GEOCHEMICAL ANALYSIS

484 soil samples x 15.15/sample	7,332.60
64 rock samples x 15.10/sample	936.20
18 fire assay x 11.30/assay	203.40
43 copper assay x 6.20	266.60

POST FIELD

Data plotting & report writing	3,232.39
Drafting 80 hrs x 25/hour	2,000.00
Reproduction	600.00
Secretarial	300.00
	44,938.95

GEOLOGY

The Peteka Claims area was originally mapped by C.S. Lord between 1941 and 1945 and reported in the Geological Survey of Canada Memoir 251 published in 1948. He described the rocks southwest of Bear Lake valley as belonging to the Upper Jurassic division of the Takla Group volcanics. Lord states "that volcanic members greatly predominate among the lower strata and sedimentary members in the upper part... interlayered with volcanic rocks." These rocks have since been reclassified by Richard (1976) as part of the Hazelton Group volcanics.

The Peteka claims are underlain predominantly by the lower members of the Hazelton Group volcanics. These rocks consist of predominantly of tuffs and agglomerates and include a wide variety dominantly purple to grey-green rocks of probable andesite composition. Minor mafic lava flows which are porphyritic with phenocrysts of plagioclase and/or hornblende were also locally observed, amygdules were only rarely observed. Minor siliceous interflow sedimentary rocks were occassionally observed in various localities throughout the Peteka Claims.

Geological mapping on the Peteka Claims was restricted, for the most part, to the ridge on the west side of the Driftwood River and south of the larger lake located in the centre of the property.

TABLE OF FORMATIONS

Lower to Lower-Middle Jurassic

Hazelton Group

Mafic lava flows - dark green, grey green to purple, locally porphyritic with plagioclase phenocrysts, occassionally amygdules observed.

Mafic to Intermediate Tuff and Agglomerates - predominantly purple tuffs and coarse agglomerates, occurs locally as grey-green tuffs and agglomerates.

Interflow Sediments - siliceous, to cherty metasedimentary, volcanoclastic rock.

Tertiary

Katsberg Intrusions

Felsic intrusive - Quartz and feldspar porphyry dyke rock.

DETAILED DESCRIPTION OF FORMATIONS

HAZELTON GROUP

Mafic Lava Flows - Mafic lava flows were observed mainly in the Driftwood River Valley. The rocks are fine grained, dark green to grey-green to rarely purple coloured. Typically the lava is locally porphyritic with white to buff, lath shaped plagioclase phenocrysts 2-4mm long in a slightly purple dark green groundmass. The plagioclase phenocrysts make up 5-10% of the rock. Most of the lava is massive, but contains some amygdules 2-5mm in diameter, the amygdules are commonly calcite filled, but are occassionally silica or rarely pyrite filling of amygdules is observed.

Mafic to Intermediate Tuffs and Agglomerates - the pyroclastic rocks of andesite to dacite composition include a wide variety of dominantly purple-grey to grey-green rocks ranging from fine grained tuffs to coarse agglomerates. The tuffs are indurated, massive and vary from fine grained to lapilli tuffs consisting of subangular to angular fragments up to 8 mm. The lapilli tuffs differ from the agglomerates only in size of the constituent fragments. The agglomerates contain fragments ranging in size from 8 mm to 50 cm. The agglomerates are massive and are likely interlayered with the tuffs. The fragments vary from subrounded to angular and are readily distinguished on weathered surfaces. The fragments and groundmass normally consists of the same rock, thus making fragments difficult to distinguish on fresh surfaces.

These pyroclastic rocks are considered to be, at least in part, subaerial volcanics.

Interflow Sediments, Volcanoclastics - volcanoclastic or interflow sedimentary rocks observed on the Peteka claims consisted of a siliceous clastic sedimentary white to light grey coloured. Totally chert bands are common, as well as green coloured well rounded chert pebbles were locally observed.

The volcanoclastics are thought to be an interflow sedimentary unit and seperates the major volcanic flows on the property. The volcanoclastic is a minor unit.

TERTIARY

Katsberg Intrusions - Intrusive rocks on the Peteka claims consist of narrow quartz-feldspar porphyry dykes which crosscut the volcanics. The dykes are 1 to 3 meters wide and strike approximately 040 to 045. The dyke rocks are fine grained to medium grained with quartz and feldspar phenocrysts. The composition of the dyke rocks is almost totally feldspar and quartz with less than 1% biotite.

STRUCTURE

Mappable structural features on the Peteka claims is limited to major joint fractures and shear zones, which are thought to parallel the major joints on the property. The major joints on the claims strike 140° to 150° and dip 50°-60° southwest or rarely to 70° southwest. The other major joints strike 040° to 045° and dip 60 to 70° northwest. Also a minor shear direction of about 170 to 175° with dips 40-50 degrees to the west were observed in the Driftwood River cut and rarely on the ridge west of the river.

Flow directions are thought to approximately parallel the strike of the mountains 150° to 140°. Lord (1948) indicates dips are approximately 30-50° northeast.

METAMORPHISM AND ALTERATION

Metamorphic effects on the Peteka Claims are minimal. The only significant metamorphic effect is minor chloritization of the mafic and intermediate volcanics. No other significant metamorphism was observed on the Peteka Claims.

Alteration on the Peteka Claims consists of minor chloritization of the mafic to intermediate volcanics, moderate to intense epidote alteration of the tuffs and agglomerates, and slight to intense hematization of the intermediate volcanics. Carbonate along fractures was observed to be locally abundant.

As discussed above chlorite alteration is minor and associated with slight metamorphism of the mafic volcanics.

Epidote alteration is moderate to intense west of the Driftwood in the intermediate volcanics, tuffs and agglomerates. The epidote occurs mainly as fracture filling, alteration envelopes surrounding fracture coating. Intense to moderate alteration of the fragments within the agglomerates is also locally observed.

Hematization of the volcanic rock was observed throughout the Peteka property. The alteration occurs mainly as red to purple colouring of the pyroclastic rocks. More intense hematization of the volcanic rocks was observed west of the Driftwood River on Peteka 3. Here local intense hematization envelopes, 3 to 6 centimeters wide, are observed surrounding fractures or in rare cases may completely colour the whole outcrop. The hematite alteration is readily recognized as dark red staining.

Carbonate alteration is minor and occurs as fracture filling calcite, rare stringers, rarely as larger 2-5 centimeter calcite veins, or with quartz in narrow quartz-carbonate veins.

Minor silicification was noted within the shear zones as quartz stringers or quartz veinlets.

ECONOMIC GEOLOGY AND MINERALIZATION

The potential for economic mineralization on the Peteka Claims is limited to the northwest and northeast major fracture systems. These major joint fracture and narrow shear zones are mineralized with massive specular hematite varying in thickness from fracture coating to 1.5 meters. Massive chalcopyrite occurs locally with the specular hematite, both adjacent to the hematite and as open space vug filling within the hematite.

Several of these zones contain significant amounts of copper with occasional significant quantities of gold and/or silver.

These massive specular hematite veins were observed west of the Driftwood River on the Peteka 3 Claim. The specularite and chalcopyrite was observed to strike 150° and dip 50 to 70° southwest. The veins are parallel to the major joint direction. These joints have been mapped over strike lengths of 500 to 800 meters.

Assays results from several grab samples indicate the samples from the above zones contain significant copper, with gold and silver credits.

The gold in the hematite veins apparently occurs as free gold in quartz, no preference for association with sulphide, either pyrite or chalcopyrite veins observed during microscope examination of the polished thin sections. (Alan Smith; personal communication).

Significant assay values occur throughout the entire length of the specular hematite veins. Values range from trace to 16.50% Cu, silver values range from trace to 13.44 oz/ton Ag and gold from trace to 0.255 oz/ton Au.

Other mineralization on the Peteka Claims of possible economic importance is associated with the 040° to 045° striking joints and shears. Mineralization here is similar to the above 150° veins. However the relative abundance of these veins is much more scarce and shear and fracture systems may be of limited strike length. A strike length of more than 200 to 300 meters is unlikely.

The other minor mineralization observed consisted of trace to 2% disseminated pyrite associated with shear zones in the volcanic rocks. No significant assay results were returned from samples analysed from these zones.

GEOPHYSICS

Geophysical surveys consisting of VLF and magnetometer surveys were conducted in the Driftwood River Valley on the Peteka 3 and 4 Claims. The geophysical grid was established from the legal corner post to the southern boundary of the Peteka 3 and 4 claims. A base line was established sub-parallel to the Driftwood River Valley and cross lines 90° to the base line were established at a spacing of 150 meters with stations read and marked every 25 meters. A total of 15.25 line km of survey was completed.

Magnetometer Survey

The magnetometer survey was conducted using a Scentrix MP-2 proton precession magnetometer reading the total intensity of the magnetic field in gammas with an accuracy of $\pm$ 2 gammas.

To correct for diurnal drift base station readings along the base line were established. This was done by first reading the base line at the intersection of all cross lines, this value would be considered a base station reading for each line. When the cross lines were read the reading at the base line and the original base station were compared and the readings for each line were corrected for drift.

All data was plotted on base maps on a scale of 1:5000 or 1 cm = 50 m. A base value of 58,000 gammas was subtracted from all readings with the difference between the actual reading and 58,000 gammas being the value plotted. The data was then contoured at 100 gamma intervals.

VLF SURVEY

The VLF survey was conducted using a Geonics EM-16 VLF instrument. All lines were read at 25 meter intervals, recording both the percent dip of the electromagnetic field, or in phase component, of the field and the out of phase or quadrature component of the electromagnetic field.

All data was plotted on a base map on a scale of 1:5000 or 1 cm = 50 meters.

All the inphase components were reduced by the Fraser Filter method of data reduction for VLF data. This data was also plotted on a scale of 1:5000. The Fraser Filter data was then contoured at 10 unit intervals.

Results of the Geophysical Surveys.

The most obvious geophysical feature is the magnetic anomaly which strikes northwest from line 18+00S 4+00E to line 0+00 3+00W. This is a stiking magnetic anomaly which averages approximately 500 gammas higher on the southwest side of the anomaly relative to the northeast side of the anomaly.

The magnetic anomaly is subparallel to a weak VLF anomaly between line 18+00S and line 9+00S.

Weak VLF anomalies are noted to be more prominent on the southwest side of the magnetic anomaly. These weak VLF anomalies are noted to be associated with low magnetic anomalies in the order of 100 to 200 gammas anomalies.

These weak VLF anomalies are noted between line 9+00S and 12+00S from 2+00W to 2+50W; between line 9+00S and 10+00S from 3+00W to 3+50W; between line 13+50S and 18+00S from 4+00W to 4+75W.

Other weak VLF anomalies with partially associated magnetic anomalies of about 100 gammas occur between line 4+50S and 7+50S from 1+25W to 1+75W; between line 7+50S and line 10+50S from 2+50E and 2+75E.

A weak VLF anomaly between line 0+00 and 3+00S from 3+00E to 3+25E occurs coincident with a 1000 gamma magnetic anomaly.

GEOCHEMISTRY

Geochemical surveys were carried out in the Driftwood River Valley on the Peteka 3 and 4 Claims and on the Peteka 1 and 2 Claims.

On the Peteka 3 and 4 Claims 368 soil samples were collected in a systematic grid pattern to evaluate the drift covered Driftwood River Valley between the two mountainous ridges. On the Peteka 1 and 2 claims samples were collected along contour traverses to evaluate these areas.

All samples were collected from the "B" horizon along pace and compass lines. On the grid on Peteka 3 and 4 samples were collected from lines spaced 150 meters apart and samples were collected at 50 meter spacings. On the Peteka 1 and 2 Claims samples were collected at 50 meter intervals on these pace and compass lines.

All samples were shipped to Apex Analytical Laboratories in Calgary and analysed for copper, lead, zinc, gold, silver and arsenic.

The geochemical survey was designed to test for anomalous precious and base metals which may be associated with economic concentrations of gold and silver.

STATISTICAL ANALYSIS

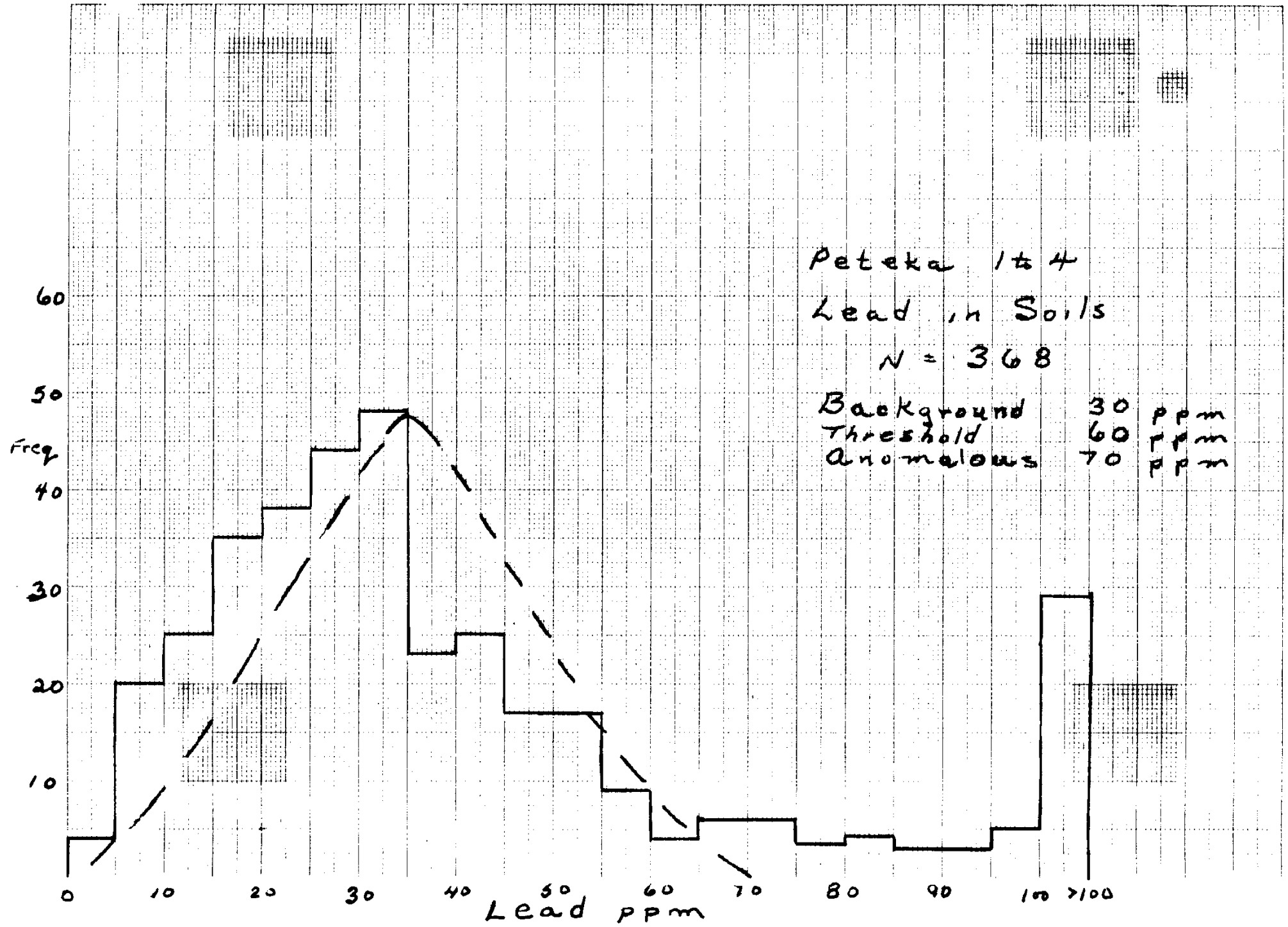
Statistical analysis was carried out for the elements copper, lead, zinc, gold and silver, no statistical analysis was completed for arsenic because of the fact that only semi-quantative analysis was completed for this element, thus making any statistical treatment invalid.

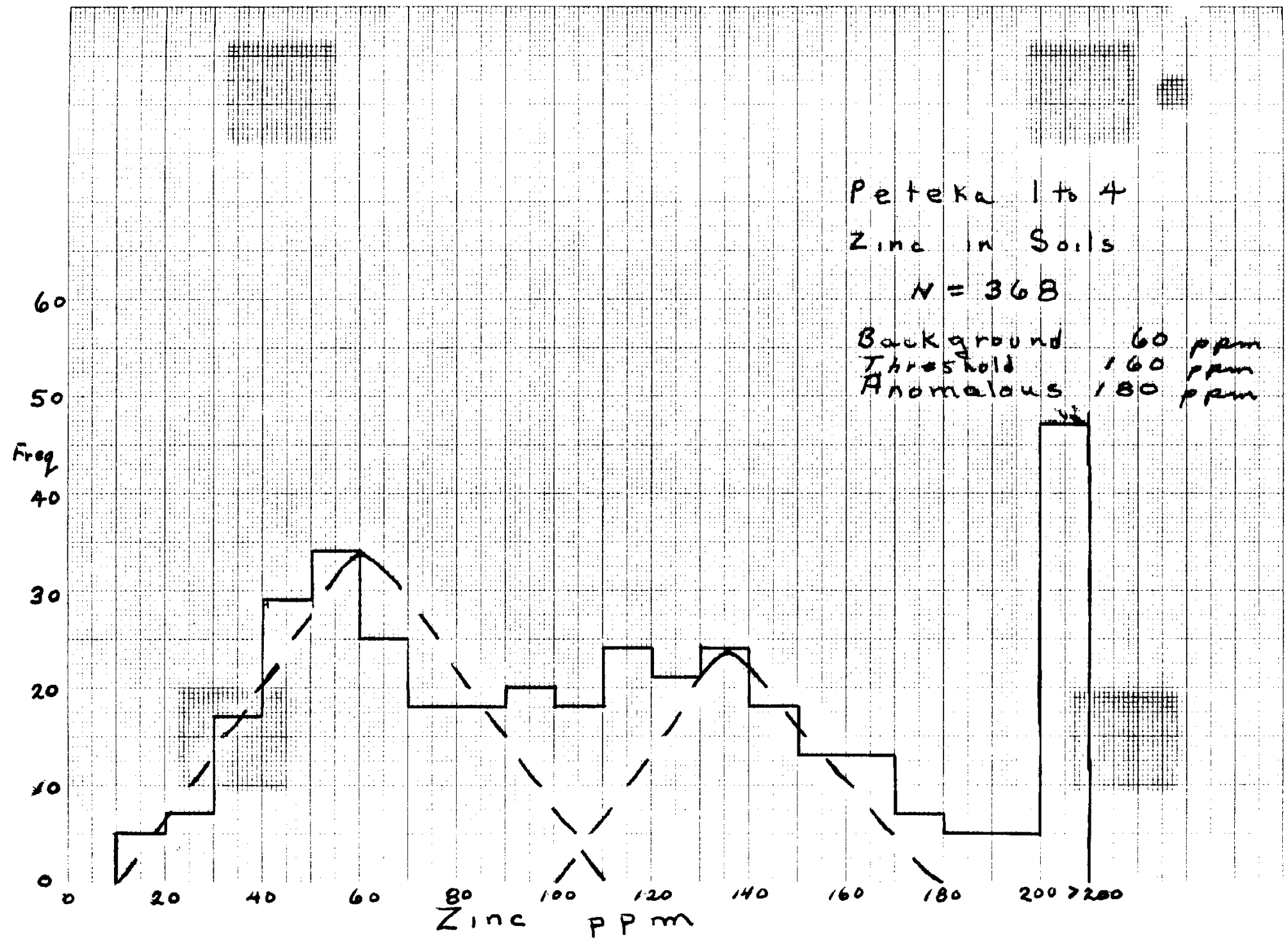
Statistical analysis consisted of the construction of histograms of the frequency distribution of the analytical results. A "best" fit normalized curve was drawn on the histogram to define the "normal" population. The analytical results above this population were considered anomalous. Also the 95 percentile level of the "normal" population was considered to be the threshold level for the element.

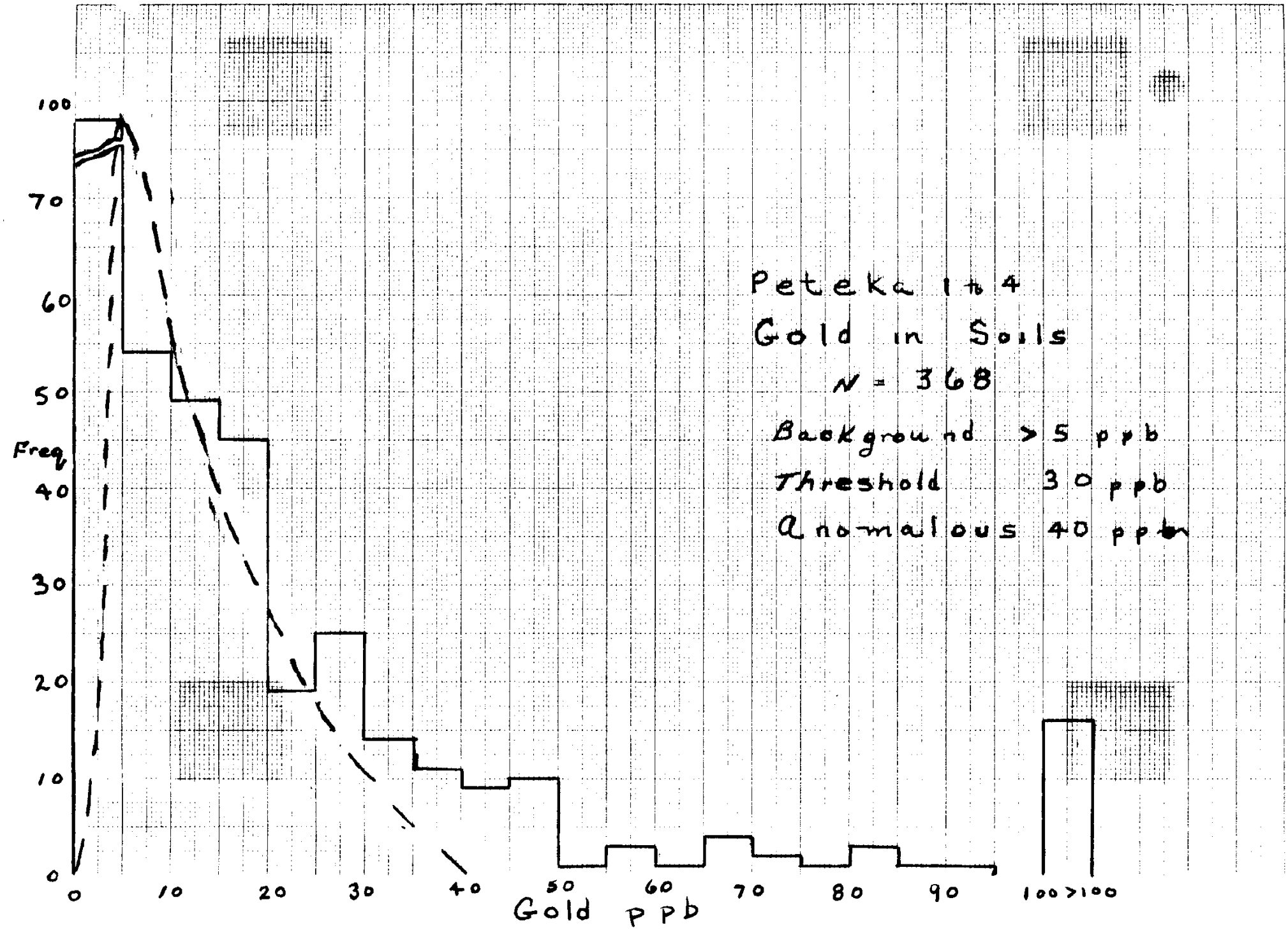
The following table summarizes the results of the statistical analysis. All values are in ppm except gold which is in ppb

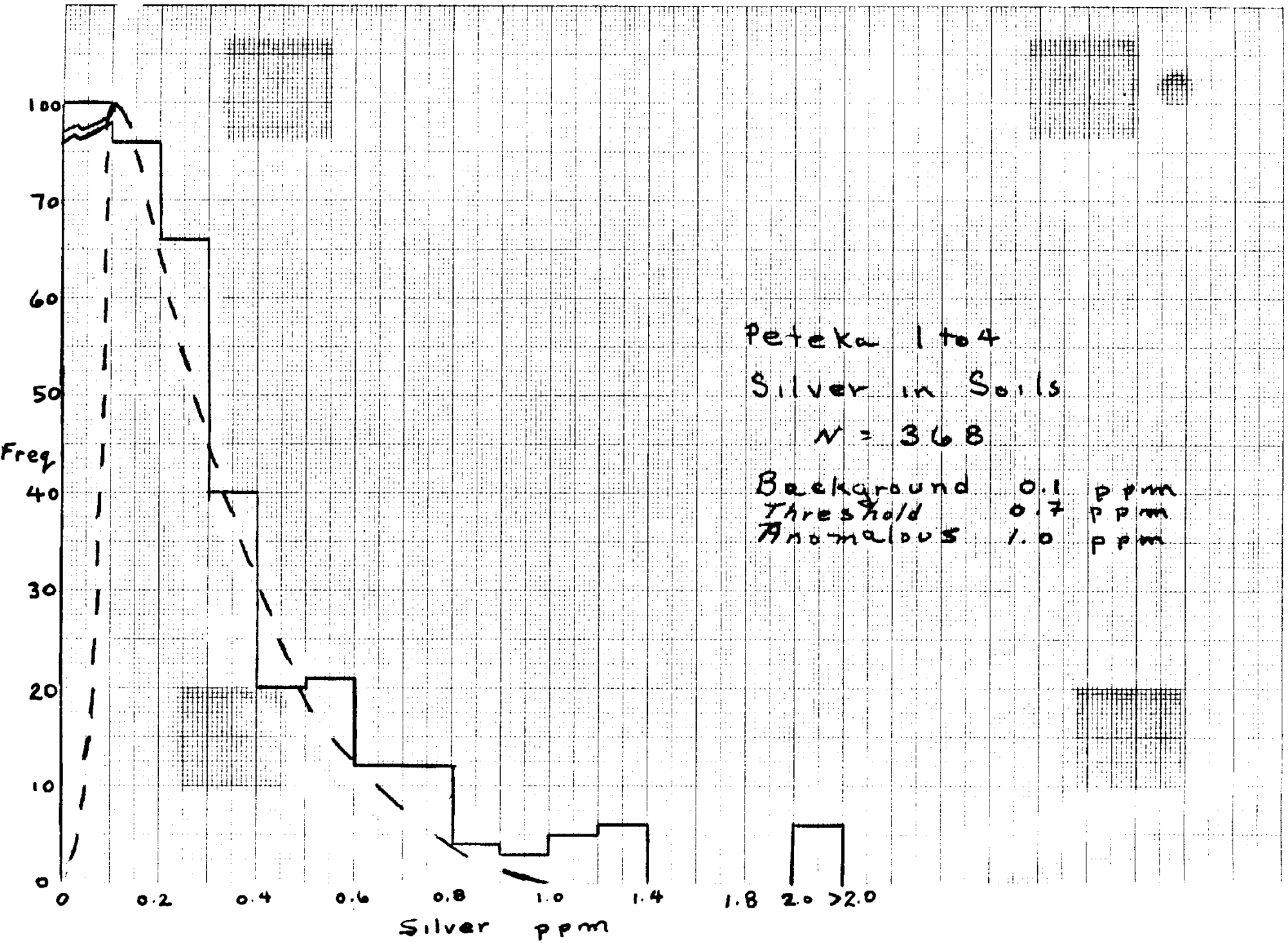
TABLE I SUMMARY OF STATISTICAL RESULTS

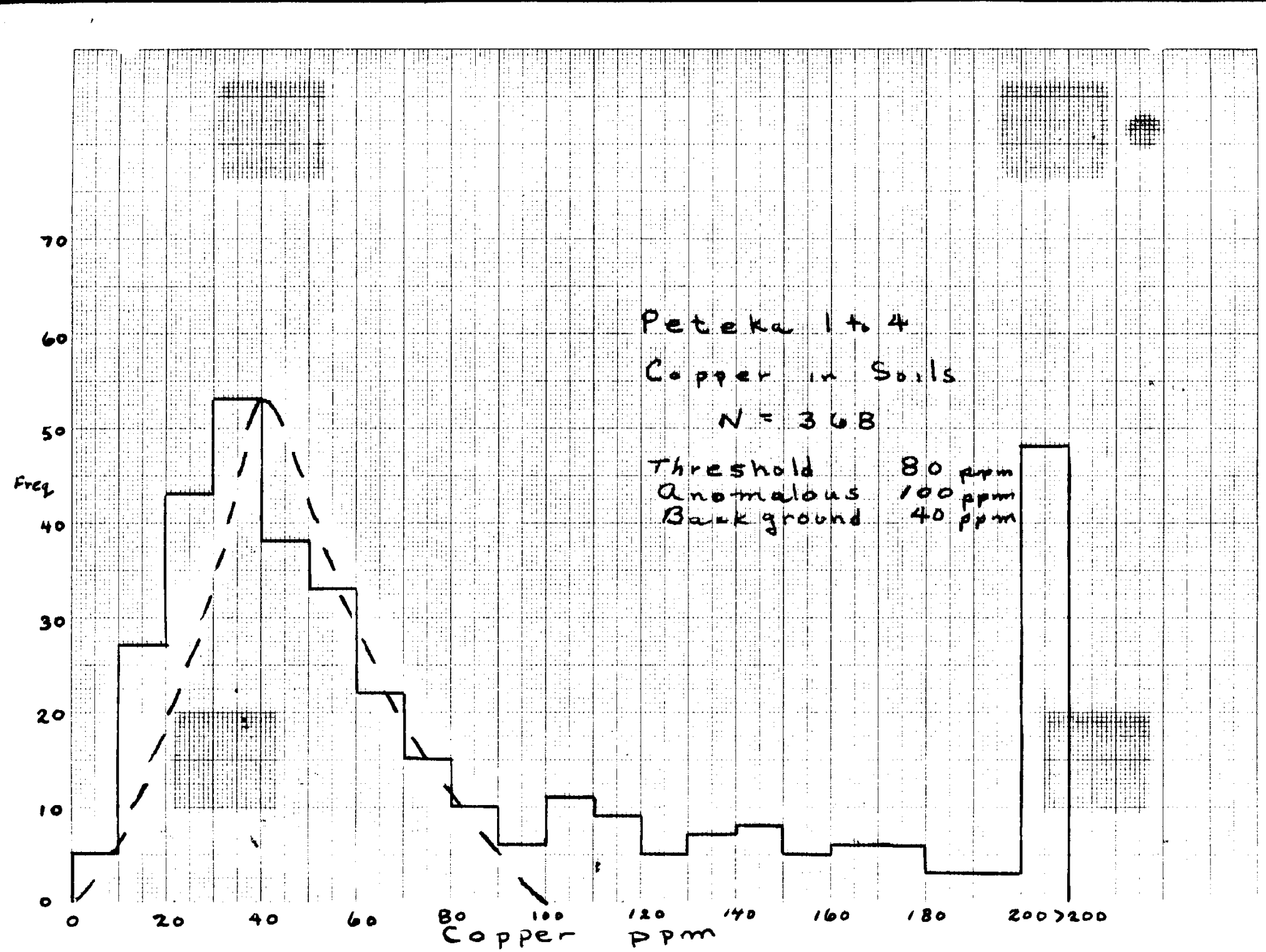
ELEMENT	BACKGROUND	THRESHOLD	ANOMALOUS
Copper	30	80	100
Lead	30	60	70
Zinc	60	160	180
Gold	>5	30	40
Silver	0.1	0.7	1.0


Peteka 1 to 4
Lead in Soils
N = 368
Background 30 ppm
Threshold 60 ppm
Anomalous 70 ppm
Freq
60
50
40
30
20
10
0
10
20
30
40
50
60
70
80
90
100
>100
Lead ppm


Peteka 1 to 4
Zinc in Soils
N = 368
Background 60 ppm
Threshold 160 ppm
Anomalous 180 ppm
Freq
0
10
20
30
40
50
60
0 20 40 60 80 100 120 140 160 180 200 >200
Zinc ppm


Peteka 1 to 4
Gold in Soils
N = 368
Background > 5 ppb
Threshold 30 ppb
Anomalous 40 ppb
Freq
Gold ppb
0
10
20
30
40
50
60
70
80
90
100
>100


Peteka 1 to 4
Silver in Soils
N = 368
Background 0.1 ppm
Threshold 0.7 ppm
Anomalous 1.0 ppm
Freq
100
70
60
50
40
30
20
10
0
0
0.2
0.4
0.6
0.8
1.0
1.4
1.8
2.0
>2.0
Silver ppm


Peteka 1 to 4
Copper in Soils
N = 368
Threshold 80 ppm
Anomalous 100 ppm
Background 40 ppm
Freq
0
10
20
30
40
50
60
70
0
20
40
60
80
100
120
140
160
180
200
>200
Copper ppm

GEOCHEMICAL ANOMALIES AND RESULTS

The geochemical anomalies will be discussed for most part concerning the gold geochemical anomalies and other base metal anomalies associated with these precious metal anomalies.

The most distinct visual effect of the geochemical anomalies are the three broad and well defined anomalies.

The largest and broadest anomaly occurs between line 9+00S and line 16+00S from 2+00W to 6+00W. Anomalous soil samples in this area range from 40 ppb to 1080 ppb Au. This anomaly is coincident and flanking to widespread anomalous copper, lead and zinc soil anomalies in this area. Silver values here are only slightly anomalous and tend to be somewhat erratic.

The explanation for the geochemical anomaly is the likelihood of the anomaly being topographically downslope from the well mineralized fractures and joints which occur in the rocks along the ridges on the west of the Driftwood River. The mineralization within the joints and fractures was found to contain economic concentrations of copper, gold and silver in isolated grab samples.

One other geochemical anomaly occurs on the west side of the Driftwood River between 9+00S and 12+00S from the base line to 1+50W on lines 9+00S and 10+50S and one anomalous sample on line 12+00S located 1+50W. Anomalous gold values here range from 36 ppb to 186 ppb Au. No associated basemetal anomaly or silver anomaly is noted to occur with this anomaly.

No explanation for the gold anomaly can be offered at this time. The anomaly occurs in the drift covered area of the Driftwood River Valley. It should be noted, however, that the anomaly occurs coincident with the magnetic break which occurs between the northeast and southwest sections of the grid.

The third significant gold geochemical anomaly occurs between lines 4+00S and 10+50S from 1+00E and 1+50E. The anomaly occurs on the east side of the Driftwood River along the east ridge. The gold values range from 34 ppb to 1405 ppb Au. No directly associated base metal anomaly is noted to be coincident with this precious metal anomaly. A very weak slightly anomalous silver anomaly is coincident with this gold anomaly. Silver values range from 0.6 ppm to 0.8 ppm Ag.

A very strong, broad base metal anomaly is noted to occur between lines 1+50S and 10+50S between the base line and the east end of all these lines. Copper values range from 112 ppm to 2870 ppm Cu, lead values from 16 ppm to 942 ppm Pb, and zinc values 161 ppm to 2400 ppm Zn. This very broad base metal anomaly is flanking to the eastern gold anomaly both east gold anomaly and north of the gold anomaly.

The explanation for the above base metal anomaly has not been determined. Geologically the area as interpreted from Lord (1948) is underlain by mafic to intermediate volcanics of the Hazelton Group. The area is considered to have favourable host rocks for massive sulphide deposits. However, this thesis remains to be verified.

The one other geochemical anomaly of possible economic significance is located between line 24+00S and line 25+50S between 0+50W and 1+00E on line 24+00S and between 0+50E and 3+00E on line 25+50S. Gold values in soil samples range from 21 ppb to 360 ppb Au. Coincident anomalous copper, lead and zinc values also occur in this area. No anomalous silver values are noted to occur in this area.

Other isolated, one sample, gold anomalies are noted to occur throughout the grid. The samples are noted to be concentrated in the northern portion of the grid. These samples may be related to mineralized boulders in this area and may represent a mineralized boulder train from the mineralized fractures and shears which occur west and northwest of the grid area.

Geochemical sampling on the Peteka 1 and 2 Claims was limited to contour soil sample lines due to the very rugged topography in this region. Contour soil sample traverses were completed on the east and west side of the lake at the headwaters of the Driftwood River on Peteka 1. Also soil sampling paralleling the stream in the northeast section of Peteka 2 was sampled.

Two apparently significant gold anomalies were located.

One gold geochemical is located west of the lake on the Peteka 1 claim. Five soil samples define anomalous area approximately 600 meters long. Anomalous gold values range between 21 ppb and 582 ppb Au. Silver values in the same area range from 0.3 ppm to 0.6 ppm Ag. Copper values are anomalous ranging from 121 ppm to 330 ppm Cu. Three samples contain anomalous lead values of 61 ppm to 134 ppm Pb. Zinc values are observed to be background values of 50 to 70 ppm Zn.

The explanation of the geochemical anomaly would appear to be that the anomaly is related to mineralized fractures and shear zones located to the west and northwest of the anomalous zone. Several mineralized fractures containing significant chalcopyrite, and hematite with gold and silver credits were located in this area during geological mapping and prospecting.

The other precious metal geochemical anomaly is located in the northeast section of the Peteka 2 Claim. The anomaly is located on the west side of the major stream on this claim, and northeast the lake. The soil anomaly has outlined an area at least 600 meters long with the anomaly open to the east. Anomalous soil samples contain 31 ppb to 497 ppb Au with one soil containing a spectacular 3428 ppb Au (0.067 oz/ton Au). Anomalous silver values range from 0.7 ppm to 6.2 ppm Ag, although not all samples containing anomalous gold are anomalous in silver, but many are, and the silver anomaly outlines approximately the same area.

The base metal anomaly is also coincident with the precious metal anomaly. Copper in soil samples contain from 97 ppm to 5260 ppm Cu. Lead anomalies, although somewhat more erratic than copper and gold, contain anomalous lead concentrations ranging from 68 ppm to 4920 ppm Pb. Zinc values are typically only slightly anomalous ranging from 150 to 200 ppm Zn, although one sample does contain 1280 ppn Zn.

The probable explanation for this anomaly appears to be chalcopyrite - galena mineralization associated with quartz-carbonate veins in volcanic rocks. The sulphide mineralization occurs as open space vug filling and fracture filling with the quartz carbonate.

SUMMARY AND CONCLUSIONS

The Peteka 1 to 4 claims are underlain by the Lower to Lower Middle Jurassic mafic to intermediate volcanic rocks belonging to the Hazelton Group. The Hazelton Group in the vicinity of the Peteka consists predominantly of tuffs and agglomerates and include a wide variety of dominantly purple to grey-green rocks of probable andesite composition. Minor mafic lava flows which are typically porphyritic with phenocrysts of plagioclase and/or hornblende were also locally observed, amygdaloical lava flows were rarely observed. Minor cherty and siliceous interflow sediments were occassionally observed between volcanic flows.

Mineralization is fracture are joint controlled and occurs as veins and fracture filling in these joints and fractures. Mineralization consists of massive specular hematite veins with widths up to 1.5 meters. Sulphide mineralization consists of vug and open space fillings within the hematite and fracture filling adjacent to the specular hematite.

Several of these mineralized fracture zones contained significant amounts of copper with occassional economic concentrations of gold and/or silver in grab samples collected from these mineralized sections.

The geophysical surveys, magnetometer and VLF surveys were completed on the Peteka 3 and 4 Claims in the Driftwood River Valley. The most significant result of the geophysical survey is the outlining of the two separate magnetic signatures between the rocks in the northeast section and southwest section. The rocks in the southwest have a magnetic response approximately 500 gammas higher than the northeast section of the grid. A weak VLF anomaly is coincident with the magnetic anomaly between the northeast and southwest sections.

Other weak VLF anomalies were also located on the grid. No explanation for these anomalies was located. However, it seems probable that they are related to major joint and fracture systems on the Peteka claims.

The soil geochemical survey was successful in locating several zones containing anomalous gold and base metal values. These anomalous zones appear to be related to mineralization with the fractures and joints within the volcanic rocks. Several of the geochemical anomalies remain unexplained.

The geochemical anomalies on the east side of the Driftwood River are unexplained as well as the anomaly near the southern boundary of the Peteka 3 and 4 claims.

Two apparently significant geochemical anomalies were located on the Peteka 1 and 2 claims. These anomalies are probably related to fracture and joint filling mineralization found in the vinicity of these anomalies.

Recommendations for future work on the Peteka claims includes detail geological mapping of the areas outlined by the anomalous geochemical samples, detail geological mapping to define structure and fracture joint systems. Extensive geochemical surveys on the Peteka 2 claim in the northeast to better define the anomalies in this area. Geophysical surveys including both magnetometer and VLF surveys in areas where topography permits. These programs should be followed by trenching and diamond drilling to access the veins, and fracture systems for continuity at depth.

RECOMMENDATIONS

As a result of the 1985 exploration program a detail follow-up exploration program is recommended.

1. Detail geological mapping and prospecting in the northeast portion of the Peteka 2 Claim, on the east side of the Driftwood River and west of the lake on the Peteka 1 Claim.

2. Detail geochemical sampling in the northeast area of the Peteka 2 claim to define the geochemical anomaly in this area.

3. Detail geological mapping, sampling, and trenching of mineralized fractures and joints located during the 1985 program.

4. Geophysical surveys, consisting of magnetometer and VLF surveys to outline major joint and fracture systems as well as to define geology in the drift covered areas.

5. Trenching and sampling in areas where mineralized fractures and joint are located.

6. Diamond drilling to define the width and continuity of mineralization at depth should be completed upon completion of the above mentioned surface exploration program. A diamond drilling program of 1000 to 2000 meters would likely be required to examine these numerous fracture and joint vein systems.

REFERENCES

JELETSKY, O.L. (1976) Takla Project: Preliminary Report on Stratigraphy and Depositional History of Middle to Upper Jurrassic Stata in McConnell Creek Map Area (west half) British Columbia in Report of Activities, Part A, Geological Survey of Canada, Paper 76-1A, Report 13.

LORD, C.S. (1948), McConnell Creek Map-Area, Cassiar District, British Columbia, Geological Survey of Canada Memoir 251.

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AUTHORS QUALIFICATONS

I Charles J. Hartley, of Apt. 302, 325 - 2 Avenue N.E., in the City of Calgary in the Province of Alberta do certify that:

1. I am a geologist employed with the Coal and Minerals Department of Suncor Inc. Resources Group with offices located at 500 - 4 Ave. S.W., Calgary, Alberta

2. I am a graduate of St. Francis Xavier University, B.Sc. Major Geology (1977).

3. I have worked in the field of mineral exploration since 1975.

4. I have personally worked on the claims and supervised exploration work carried out there and described in this report.

5. I have not received and do not expect to receive any interest, directly or indirectly, in the properties described herein nor in the securities of Suncor Inc. Resources Group in respect of services rendered in the preparation of this report.

Respectfully submitted,

Charles Hartley

APPENDIX I

ROCK SAMPLE DESCRIPTIONS

PETEKA 1-4 - ROCK SAMPLE DISCRIPTION

SAMPLE NO.	DESCRIPTION
PK2201 (PK-WF-4)	Silicia rock intermediate to mafic volcanic with abundant medium to coarse grained specularite in veins and aggregates, minor pyrite and chalcopyrite.
PK2202 (PK-WF-5a)	Near massive specularite vein with fine to medium grain specularite. Sample contains medium grained quartz and fragments of clay altered volcanics.
PK2203 (PK-WF-5b)	Sheared silicified mafic volcanic containing veins and stringers of massive medium to coarse grained specular hematite and chalcopyrite, minor malachite.
PK2204 (PK-WF-6)	Shear zone in chlorite and clay altered mafic volcanics, 2 to 10 mm wide specular hematite stringers with fine to medium grained specularite; 10-15% fine to medium grained pyrite in host quartz rich volcanic.
PK2205 (PK-WF-7)	Fracture zone in mafic volcanic rocks - mineralization includes 1-2 cm wide specular hematite and carbonate veins, volcanic rocks contains disseminated fine to medium grained pyrite and chalcopyrite, locally as vug infilling.

PETEKA 1-4 - ROCK SAMPLE DISCRIPTION

SAMPLE NO.	DESCRIPTION
PK2206 (PK-WF-8)	Shear zone in weakly chloritized mafic volcanics, stringers and veins of fine to medium grained specular hematite and quartz, minor malachite staining along fractures, trace chalcopyrite.
PK2207 (PK-WF-9)	Silicified shear zone in clay altered mafic volcanics, mineralization consists of veins and stringers of medium to coarse grained specular hematite containing coarse grained rounded calcite crystals. Minor associated pyrite and chalcopyrite.
PK2208 (PK-WF-10)	Shear zone is silicified weakly carbonatized volcanic, approximately 15% fine to medium grained specularite in quartz-carbonate rich vein, minor malachite staining.
PK2209 (PK-WF-11)	Carbonatized shear zone in mafic volcanic host rock, irregular veins, stringers and pods of medium to coarse grained specular hematite and chalcopyrite. Chalcopyrite locally brecciated, abundant malachite staining.
PK2210 (PK-WF-12)	Carbonatized shear zone in silicified mafic volcanic, mineralization consists of fine grained hematite and possibly tetrahedrite in stringers and blebs, abundant malachite staining.

PETEKA 1-4 - ROCK SAMPLE DISCRIPTION

SAMPLE NO.	DESCRIPTION
PK2211 (PK-SS-6)	Shear zone in chloritized mafic volcanic, calcite and specular hematite bearing veins and stringers with up to 80% medium to coarse grained specular hematite, medium to coarse grained blebs of chalcopyrite in volcanic host rock.
PK2212 (PK-CH-3)	2 m wide shear zone in mafic volcanic host, quartz bearing specular hematite vein, medium to coarse grained, containing open space fillings of quartz and fragments of altered volcanics.
PK2213 (PK-CH-4)	Vein in silicified mafic volcanic rocks, medium to coarse grained near massive specular hematite vein containing grained chalcopyrite. Silicified volcanic fragments are also present in the vein.
PK2214 (PK-CH-5)	Silicified mafic volcanic from shear zone, with trace fine disseminated cubic pyrite.
PK2215 (PK-CH-12)	Silicifiede mafic volcanic from shear zone with trace disseminated pyrite.
PK2216 (PK-CH-13)	Massive coarse grained specular hematite vein in slightly chloritic and silicified mafic volcanic fragmental, minor quartz-carbonate.

PETEKA 1-4 - ROCK SAMPLE DISCRIPTION

SAMPLE NO.	DESCRIPTION
PK2217 (PK-CH-15)	Massive specular hematite vein with local abundant chalcopyrite as vug infilling, malachite staining common. Host mafic volcanic, slightly chloritic and silicified.
PK2218 (PK-CH-16)	Host mafic volcanic with massive specular hematite vein with abundant 10-15% medium grained chalcopyrite as vug and open space filling.
PK2219 (PK-SS-09)	Fine to medium grained intermediate volcanic with 3-5cm specular hematite vein with 1 cm width of massive chalcopyrite.
PK2220 (PK-SS-19)	Felsic to intermediate volcanic with quartz-carbonate vein with 10-12% chalcopyrite disseminated and vug filling.
PK2221 (PK-SS-21)	Float, Quartz-carbonate vein with abundant malachite and minor disseminated pyrite ±chalcopyrite.
PK2222 (PK-SS-22)	Gossan sample, with chalcopyrite-galena vein 2-4 cm wide in quartz-carbonate, pyrite common. Intermediate volcanic host rock.

PETEKA 1-4 - ROCK SAMPLE DISCRIPTION

SAMPLE NO.	DESCRIPTION
PK2223 (PK-IS-2)	Mafic volcanic with moderate to intense chlorite alteration, containing trace pyrite disseminated and fracture coating. Alteration, intense argillic and minor silicification.
PK2224 (PK-WF-1)	Specular hematite vein in intermediate volcanic with quartz-carbonate. Chalcopyrite occurs in vugs and open space filling, abundant malachite stain. Minor calcite open space filling.
PK2225 (PK-WF-2)	Silicified mafic volcanic with abundant quartz, hematite alteration, minor carbonate, minor malachite, azurite staining in vugs and on fracture surface.
PK2226 (PK-WF-3)	Massive medium to coarse grained specular hematite.
PK2227 (PK-WF-13)	Silicified intermediate volcanic, with vugs with cubic pyrite infilling, alteration silica and red hematite staining.

PETEKA 1-4 - ROCK SAMPLE DISCRIPTION

SAMPLE NO.	DESCRIPTION
PK2228 (PK-WF-14)	Intermediate to mafic volcanic, very fine grained, intense chlorite alteration, minor silicification, minor to moderate malochite and azurite staining, trace disseminated chalcopyrite, pyrite on fracture surfaces.
PK2229 (PK-WF-15)	Intermediate volcanic with 1-2 mm chalcopyrite vein and malachite stain on fracture surfaces, trace disseminated pyrite. Alteration chlorite, minor silicification, argillic.
PK2230 (PK-WF-16)	Intermediate fine graned volcanic with 2-3 cm massive specular hematite vein, trace chalcopyrite, pyrite with moderate to abundant malachite staining.
PK2231 (PK-WF-17)	Silicified intermediate volcanic with 1 cm quartz vein and calcite on fractures, chalcopyrite open space filling and along quartz vein host rock contact, trace pyrite, alteration includes chlorite, quartz carbonate.
PK2232 (PK-WF-18)	Mafic to intermediate volcanic fine grained 3-4% chalcopyrite open space and fracture filling with 1 cm quartz vein with chalcopyrite minor malachite staining alteration hematite, chlorite and quartz-

PETEKA 1-4 - ROCK SAMPLE DISCRIPTION

SAMPLE NO.	DESCRIPTION
PK2233 (PK-WF-19)	Massive white calcite vein with chalcopyrite vug infilling and malachite staining common.
PK2234 (PK-WF-20)	4-6 cm massive white calcite vein with trace vug filling chalcopyrite and trace fracture coating chalcopyrite and malachite staining. Trace fracture filling specular hematite.
PK2235 (PK-WF-21)	Mafic volcanic, dark grey, fine grained, chloritic with narrow 1-2 quartz-carbonatevein with open space filling chalcopyrite and fracture coating malachite stain, trace fracture filling specular hematite.
PK2236 (PK-WF-22)	Mafic to intermediate volcanic dark grey green with calcite vein abundant open space filling coarse grained chalcopyrite with malachite staining. Alteration chlorite and minor red hematite staining.
PK2237 (PK-WF-23)	2-4 cm calcite vein in chloritic mafic volcanic, minor chalcopyrite vug filling with moderate to abundant malachite in vugs. Iron staining on fracture surfaces.
PK2238 (PK-WF-24)	Quartz-calcite vein in mafic volcanic with abundant open space filling chalcopyrite with minor malochite staining. Alteration red hemotite silicification, chlorite and argillic.

PETEKA 1-4 - ROCK SAMPLE DISCRIPTION

SAMPLE NO.	DESCRIPTION
PK2239 (PK-WF-25)	Quartz vein in mafic volcanic with minor vug filling chalcopyrite and moderate malachite stain.
PK2240 (PK-WF-26)	Red grey intermediate volcanic with abundant calcite, trace vug and open space filling chalcopyrite.
PK2241 (PK-WF-27)	8-10 cm quartz-calcite vein with chalcopyrite, specular hematite vug filling, chalcopyrite often specular hematite, malachite stained. Trace galena.
PK2242 (PK-WF-28)	Quartz-calcite-specular hematite vein in chloritic specular hematite vein, trace chalcopyrite vug filling in vein with trace bornite.
PK2243 (PK-WF-30)	Quartz-carbonate vein up to 1 meter wide with chalcopyrite, specular hematite as open space filling with abundant country rock in vein (brecciated).
PK2244 (PK-WF-31)	Mafic volcanic with quartz-calcite vein with fracture filling specular hematite with trace vug filling chalcopyrite.

PETEKA 1-4 - ROCK SAMPLE DISCRIPTION

SAMPLE NO.	DESCRIPTION
PK2244 (PK-WF-31)	Mafic volcanic with quartz-calcite vein with fracture filling specular hematite with trace vug filling chalcopyrite.
PK2245 (PK-CH-4)	Mafic volcanics associated with sample PK-CH-4. Disseminated and fracture coating pyrite in silicified mafic volcanic.
PK2246 (PK-SS-25)	Small shear 10 cm wide, calcite and quartz associated with hematite vein. Vug filling chalcopyrite, malachite and hematite staining.
PK2247 (PK-SS-29)	Shear zone 20-40 cm wide. Massive specular hematite, abundant chalcite, minor hematite, abundant calcite, minor disseminated pyrite and chalcopyrite in silicified mafic volcanic.
PK2248 (PK-SS-31)	1.5 to 2 meter wide shear, massive hematite vein 30 cm, calcite associated with chalcopyrite localized along hematite-calcite contact.
PK2249 (PK-SS-42)	10 cm wide shear in silicified mafic volcanic. Disseminated and fracture coating chalcopyrite, malachite and azurite stained.

PETEKA 1-4 - ROCK SAMPLE DISCRIPTION

SAMPLE NO.	DESCRIPTION
PK2261 (PK-SS-43)	5cm wide shear in mafic volcanics with calcite rich felsic vein. Prominent malachite, azurite stain. Trace disseminate chalcopyrite, and hematite.
PK2262 (PK-SS-49)	Mafic volcanic, disseminated pyrite, chalcopyrite, with malachite staining along fractures.
PK2263 (PK-BD-3)	Float, carbonate boulder with vug filling chalcopyrite and minor hematite, malachite, azurite and hematitic staining.
PK2264 (PK-IS-10)	Float, fine grained mafic volcanic with calcite vein containing hematite, chalcopyrite with abundant malochite staining.
PK2265 (PK-SS-44)	Mafic volcanic with minor disseminated pyrite, abundant limonite staining. Minor 1-2 mm carbonate stringers, minor epidote alteration.
PK2266 (PK-SS-45)	Epidotized felsic intrusive, intruding silicified mafic volcanic with grey quartz. Abundant iron staining.
PK2267 (PK-CH-17)	Massive specularite vein containing rounded to oval blebs, aggregates of chalcopyrite from 0.5 cm to 3 cm.

PETEKA 1-4 - ROCK SAMPLE DISCRIPTION

SAMPLE NO.	DESCRIPTION
PK2268 (PK-CH-17)	Disseminated pyrite and stringers and fracture coatings in altered mafic volcanics, iron stained fractures, minor carbonate, part of extensive gossan zone on hillside.
PK2269 (PK-CH-10)	Shear zone in volcanics containing specular hematite veins to 10 cm as well as calcite, chalcopyrite veins 1 to 2 cm wide, some associated malachite.
PK2270 (PK-AS-1)	1 meter wide fracture zone in tuff containing fine grained disseminated pyrite, specular hematite over 0.5 m interval, locally 2-3% pyrite.
PK2271 (PK-AS-5)	1 meter wide shear zone in mafic volcanic, network of quartz, chlorite, charbonate veins containing specular hematite, chalcopyrite and malachite.
PK2272 (PK-AS-6)	Shear zone at contact of hematized tuff and felsic unit, specular hematite, calcite veins containing chalcopyrite in open space fillings and stringers.
PK2273 (PK-AS-7)	15 cm wide massive specular hematite vein with open space fillings of quartz containing fine grained disseminated pyrite. Host rock bleached, highly altered volcanic, some medium grained pyrite blebs.

PETEKA 1-4 - ROCK SAMPLE DISCRIPTION

SAMPLE NO.	DESCRIPTION
PK2274 (PK-AS-8)	Bleached, intensely altered volcanic rock, host of DR2273, abundant disseminated pyrite, some pyrite concentrated along fractures.
PK2275 (PK-AS-9)	Silicified porphyritic volcanic from 5 m wide gossan zone at northwest end of large gossan contains abundant disseminated pyrite.
PK2276 (PK-AS-12)	Network of specular hematite stringers in altered carbonatized volcanic (2meter wide interval), blebs and aggregates of fine grained to medium grained pyrite supported in specular hematite.
PK2277 (PK-AS-14)	20 cm to 1 meter wide specularite vein, minimum 60 meter length, contains quartz-calcite stringers (pyrite bearing) with some fragments of silicified volcanic wall rock.
PK2278 (PK-AS-15A)	30 cm wide specular hematite vein exposed for 2 meters, vuggy specular hematite with coarse grained chalcopyrite infilling vugs (up to 10 cm long), also abundant pyrite.

PETEKA 1-4 - ROCK SAMPLE DISCRIPTION

SAMPLE NO.	DESCRIPTION
PK2279 (PK-AS-15B)	Same vein as PK2278, but primarily chalcopyrite in open space fillings with fragments of host volcanic.
PK2280 (PK-AS-15c)	Same vein as PK2278, sample contains 4-5 cm wide open space filling of chalcopyrite in specular hematite.

APPENDIX II

ANALYTICAL RESULTS

•DATE 13\02\25 RID 03 26 NOV 85 MINERL
•CHEMICAL LAB ANALYSIS REPORT FOR PROJECT: PETKEA 1 TO 4 LAB : APX (TYPE FI
•SG=.PRJ#.•ROCK.SAMPLE.AU .AU .AG .AG .CU .CU .
•----NUMBER=.FA# OZS/AT PPB=.FA# OZS/AT PPB=.FA# PPM=.FA# PPM=.FA# PPM

80 QN185	PK2201		356		0.1	100		144	
80 QN185	PK2202		34		0.1	100			
80 QN185	PK2203		891		4.3	100			
80 QN185	PK2204		240		0.3	100	97		
80 QN185	PK2205	0.258	5657		1.5	100			
80 QN185	PK2206		34		0.1	100			
80 QN185	PK2207		634		0.2	100	207		
80 QN185	PK2208	0.100	3065	0.77	17.0	600			
80 QN185	PK2209	0.114	3702	4.47	3.0	2600			
80 QN185	PK2210	0.162	2941	5.42	3.0	2600			
80 QN185	PK2211		274		1.0	100			
80 QN185	PK2212		726		0.1	100	248		
80 QN185	PK2213	0.145	3600		2.2	100			
80 QN185	PK2214		34		0.2	100			
80 QN185	PK2215		189		1.4	100			
80 QN185	PK2216	0.167	4628		0.7	100			
80 QN185	PK2217		823		4.0	100			
80 QN185	PK2218		394		1.0	100			
80 QN185	PK2219		82		0.1	100			
80 QN185	PK2220	0.179	5000		2.3	100			
80 QN185	PK2221	0.180	5000	0.56	21.0	600			
80 QN185	PK2222	0.096	2428	13.44	4.0	1600			
80 QN185	PK2223		103		1.5	100			
80 QN185	PK2224		805		1.5	100			
80 QN185	PK2225		205	0.77	40.0	2000			
80 QN185	PK2226	0.019	1200		0.5	100	73		
80 QN185	PK2227		65		0.1	100	40		
80 QN185	PK2228		205		1.9	100			
80 QN185	PK2229		29		0.4	100			
80 QN185	PK2230		17		5.7	100			
80 QN185	PK2231		411		2.4	100			
80 QN185	PK2232	0.178	5486		1.2	100			
80 QN185	PK2233		48		0.5	100			
80 QN185	PK2234		14		0.4	200			
80 QN185	PK2235		19		0.6	100			
80 QN185	PK2236		240		1.2	100			
80 QN185	PK2237		651		2.0	100			
80 QN185	PK2238		274		1.9	100			
80 QN185	PK2239		77		12.6	200			
80 QN185	PK2240		188		1.0	200			
80 QN185	PK2241		222		24.0	100			
80 QN185	PK2242		14		1.2	100			
80 QN185	PK2243	0.111	3257		0.3	100			
80 QN185	PK2244		428		0.1	100			
80 QN185	PK2245		163		9.7	100			
80 QN185	PK2246		12		0.4	100			
80 QN185	PK2247		43		1.3	100	65		
80 QN185	PK2248		154		0.3	100			
80 QN185	PK2261				5.6	100			
80 QN185	PK2262		5	2.34	110	100			
80 QN185	PK2263		5	0.98	47.0	100			
80 QN185	PK2264	0.015		0.48	31.0	100			
80 QN185	PK2265		5		1.5	100			
80 QN185	PK2266		5		5.6	100			

80 QN185	PK2267		116		3.6				
80 QN185	PK2268		5		0.6		73		
80 QN185	PK2269	0.204	2228		5.9				
80 QN185	PK2270		5		0.9		58		
80 QN185	PK2271	0.081	1543		1.4				
80 QN185	PK2272		223		3.6				
80 QN185	PK2273		347		0.6		114		
80 QN185	PK2274		26		0.7		40		
80 QN185	PK2275		21		0.4		20		
80 QN185	PK2276		226		0.7		108		
80 QN185	PK2277		298		0.4		69		
80 QN185	PK2278	0.059	1337		2.0				
80 QN185	PK2279	0.112	3154		2.2				
80 QN185	PK2280	0.126	1749		0.5				
50 QN185	PK4101		5		0.2	100	16	10	
50 QN185	PK4102		5		0.2	100	174	85	
50 QN185	PK4103		19		0.2	100	128	30	
50 QN185	PK4104		44		0.1	100	99	40	
50 QN185	PK4105		14		0.1	100	247	44	
50 QN185	PK4106		29		0.2	100	276	39	
50 QN185	PK4107		14		0.2	100	270	24	
50 QN185	PK4108		5		0.1	100	158	10	
50 QN185	PK4109		5		0.1	100	211	9	
50 QN185	PK4110		5		0.1	100	247	14	
50 QN185	PK4111		7		0.2	100	56	9	
50 QN185	PK4112		9		0.1	100	116	6	
50 QN185	PK4113		19		0.1	100	56	9	
50 QN185	PK4114		19		0.1	100	68	192	
50 QN185	PK4115		19		0.5	100	143	24	
50 QN185	PK4116		12		0.3	100	170	46	
50 QN185	PK4117		5		0.2	100	244	30	
50 QN185	PK4118		19		0.1	100	196	51	
50 QN185	PK4119		19		0.3	100	160	46	
50 QN185	PK4120		50		0.2	100	78	25	
50 QN185	PK4121		19		0.1	100	246	11	
50 QN185	PK4122		25		0.3	100	44	13	
50 QN185	PK4123		5		0.7	100	116	21	
50 QN185	PK4124		19		0.2	100	162	29	
50 QN185	PK4125		7		0.2	100	244	22	
50 QN185	PK4126		19		0.2	100	139	22	
50 QN185	PK4127		5		0.2	100	26	13	
50 QN185	PK4128		12		0.1	100	61	7	
50 QN185	PK4129		19		0.3	100	22	34	
50 QN185	PK4130		19		0.1	100	48	29	
50 QN185	PK4131		5		0.2	100	100	23	
50 QN185	PK4132		19		0.1	100	35	11	
50 QN185	PK4133		19		0.3	100	22	30	
50 QN185	PK4134		19		0.1	100	37	25	
50 QN185	PK4135		7		0.2	100	33	31	
50 QN185	PK4136		17		0.1	100	37	10	
50 QN185	PK4137		7		0.3	100	40	6	
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50 QN185	PK4140		19		0.3	100	100	30	
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50 QN185	PK4142		14		0.4	100	151	16	
50 QN185	PK4143		19		0.1	100	65	16	
50 QN185	PK4144		115		0.3	100	116	21	
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50 QN185	PK4167		5		0.1	100	21	28	
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50 QN185	PK4177		5		0.1	100	61	55	
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50 QN185	PK4180		5		0.1	100	136	24	
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50 QN185	PK4186		5		0.2	100	16	31	
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50 QN185	PK4196		5		0.1	100	6	23	
50 QN185	PK4197		5		0.1	100	51	28	
50 QN185	PK4198		5		0.1	100	9	14	
50 QN185	PK4199		5		0.2	100	11	20	
50 QN185	PK4200		7		0.1	100	20	21	
50 QN185	PK4201		14		0.1	100	17	25	
50 QN185	PK4202		12		0.1	100	23	18	
50 QN185	PK4203		9		0.1	100	53	45	
50 QN185	PK4204		5		0.1	100	115	33	
50 QN185	PK4205		5		0.1	100	39	27	
50 QN185	PK4206		5		0.1	100	26	27	
50 QN185	PK4207		5		0.1	100	46	42	
50 QN185	PK4209		5		0.1	100	115	33	
50 QN185	PK4210		5		0.1	100	60	37	
50 QN185	PK4211		5		0.1	100	92	70	
50 QN185	PK4212		5		0.1	100	46	46	
50 QN185	PK4213		5		0.1	100	13	18	
50 QN185	PK4214		5		0.1	100	11	13	
50 QN185	PK4215		5		0.1	100	14	13	
50 QN185	PK4216		5		0.2	100	21	15	
50 QN185	PK4217		5		0.1	100	14	13	
50 QN185	PK4218		5		0.1	100	33	23	
50 QN185	PK4219		5		0.1	100	11	27	
50 QN185	PK4220		5		0.1	100	5	14	
50 QN185	PK4221		5		0.1	100	13	22	
50 QN185	PK4223		5		0.1	100	8	17	
50 QN185	PK4224		7		0.2	100	10	17	
50 QN185	PK4225		5		0.1	100	31	29	
50 QN185	PK4225		5		0.1	100	22	15	

50 QN185	PK4227		5		0.1	100	24	17	
50 QN185	PK4228		5		0.2	100	48	29	
50 QN185	PK4229		5		0.2	100	47	58	
50 QN185	PK4230		5		0.2	100	139	55	
50 QN185	PK4231		5		0.2	100	100	51	
50 QN185	PK4232		5		0.3	100	167	18	
50 QN185	PK4233		5		0.1	100	90	313	
50 QN185	PK4234		5		0.1	100	175	274	
50 QN185	PK4266		5		0.2	100	30	16	
50 QN185	PK5212		10		0.7	100	107	27	
50 QN185	PK5213		19		0.4	100	63	37	
50 QN185	PK5214		5		0.6	100	148	30	
50 QN185	PK5215		7		0.2	100	165	20	
50 QN185	PK5216		21		0.2	100	86	18	
50 QN185	PK5217		582		0.5	100	176	44	
50 QN185	PK5218		172		0.4	100	330	19	
50 QN185	PK5219		9		0.1	100	185	20	
50 QN185	PK5220		39		0.3	100	255	134	
50 QN185	PK5221		5		0.4	100	123	61	
50 QN185	PK5222		58		0.4	100	184	44	
50 QN185	PK5227		72		0.6	100	124	34	
50 QN185	PK5224		5		0.6	100	170	40	
50 QN185	PK5225		5		0.5	100	105	25	
50 QN185	PK5226		5		0.6	100	53	22	
50 QN185	PK5227		12		0.6	100	155	93	
50 QN185	PK5228		5		0.6	100	157	35	
50 QN185	PK5229		14		0.8	100	157	35	
50 QN185	PK5230		5		0.6	100	56	14	
50 QN185	PK5231		12		0.7	100	249	24	
50 QN185	PK5232		5		0.5	100	42	16	
50 QN185	PK5233		5		0.6	100	39	15	
50 QN185	PK5234		7		0.4	100	52	12	
50 QN185	PK5235		5		0.7	100	21	12	
50 QN185	PK5236		29		0.4	100	44	19	
50 QN185	PK5237		46		0.8	100	195	37	
50 QN185	PK5238		14		0.7	100	67	18	
50 QN185	PK5239		45		0.6	100	212	30	
50 QN185	PK5240		9		0.9	100	454	22	
50 QN185	PK5242		5		0.5	100	55	9	
50 QN185	PK5243		5		0.8	100	238	14	
50 QN185	PK5244		5		0.8	100	21	12	
50 QN185	PK5245		5		1.2	100	65	19	
50 QN185	PK5246		9		0.7	100	78	35	
50 QN185	PK5247		17		0.4	100	33	34	
50 QN185	PK5248		14		0.3	100	29	12	
50 QN185	PK5249		34		0.5	100	33	16	
50 QN185	PK5250		41		0.8	100	59	31	
50 QN185	PK5251		82		0.5	100	52	40	
50 QN185	PK5252		34		1.1	100	60	38	
50 QN185	PK5253		38		0.2	100	18	13	
50 QN185	PK5254		24		0.3	100	49	22	
50 QN185	PK5255		9		0.1	100	97	29	
50 QN185	PK5256		19		0.1	100	78	10	
50 QN185	PK5257		17		0.3	100	70	13	
50 QN185	PK5258		19		0.4	100	53	20	
50 QN185	PK5259		29		0.5	100	35	19	
50 QN185	PK5260		29		0.6	100	76	29	
50 QN185	PK5261		55		0.5	100	33	10	
50 QN185	PK5262		29		0.5	100	21	18	

50 QN185	PK5263		5		0.1	100	7	4	
50 QN185	PK5264		5		0.1	400	5	10	
50 QN185	PK5265		5		0.1	300	3	8	
50 QN185	PK5266		19		0.3	100	52	32	
50 QN185	PK5267		5		0.1	100	39	40	
50 QN185	PK5268		9		0.5	100	57	31	
50 QN185	PK5269		5		0.2	100	18	17	
50 QN185	PK5270		14		0.3	100	34	24	
50 QN185	PK5271		14		0.6	100	8	5	
50 QN185	PK5272		55		0.3	100	29	12	
50 QN185	PK5273		19		0.5	100	26	40	
50 QN185	PK5274		16		0.4	100	28	40	
50 QN185	PK5275		19		0.3	100	32	30	
50 QN185	PK5276		43		0.3	100	36	33	
50 QN185	PK5277		7		0.1	100	17	21	
50 QN185	PK5278		17		0.3	100	32	23	
50 QN185	PK5279		43		0.3	100	100	53	
50 QN185	PK5280		9		0.5	100	39	31	
50 QN185	PK5281		34		0.1	100	96	52	
50 QN185	PK5282		48		0.5	100	36	30	
50 QN185	PK5287		186		0.7	100	30	40	
50 QN185	PK5284		9		0.2	100	39	25	
50 QN185	PK5285		19		0.4	100	52	35	
50 QN185	PK5286		206		0.2	100	40	27	
50 QN185	PK5287		1080		0.4	100	53	40	
50 QN185	PK5288		21		0.3	100	58	20	
50 QN185	PK5289		29		0.4	100	56	43	
50 QN185	PK5290		67		0.6	100	44	33	
50 QN185	PK5291		1080		0.4	100	53	40	
50 QN185	PK5292		108		0.4	100	30	18	
50 QN185	PK5293		17		0.3	100	33	32	
50 QN185	PK5294		55		0.2	100	32	30	
50 QN185	PK5295		14		0.2	100	24	20	
50 QN185	PK5296		106		0.2	100	46	32	
50 QN185	PK5297		21		1.1	100	71	35	
50 QN185	PK5298		29		0.4	100	142	43	
50 QN185	PK5299		29		0.7	100	29	35	
50 QN185	PK5300		9		0.4	100	23	58	
50 QN185	PK5301		19		0.5	100	30	48	
50 QN185	PK5302		19		0.6	100	12	33	
50 QN185	PK5303		29		0.6	100	56	59	
50 QN185	PK5304		14		0.3	100	18	28	
50 QN185	PK5305		17		0.3	100	18	27	
50 QN185	PK5306		17		0.2	100	286	42	
50 QN185	PK5307		91		0.3	100	36	30	
50 QN185	PK5308		84		0.7	100	77	81	
50 QN185	PK5309		21		0.8	100	45	24	
50 QN185	PK5310		29		0.1	100	108	54	
50 QN185	PK5311		9		0.5	100	16	31	
50 QN185	PK5312		38		0.3	100	52	67	
50 QN185	PK5313		31		0.4	100	40	48	
50 QN185	PK5314		43		0.1	100	163	49	
50 QN185	PK5315		17		0.1	100	14	26	
50 QN185	PK5316		29		0.2	100	24	59	
50 QN185	PK5317		29		0.2	100	229	35	
50 QN185	PK5318		14		0.2	100	229	35	
50 QN185	PK5319		106		0.7	100	336	66	
50 QN185	PK5320		14		0.2	100	122	36	
50 QN185	PK5321		43		0.2	100	20	26	

50 QN185	PK5322		17		0.1	100	43	47	
50 QN185	PK5323		34		0.1	100	222	37	
50 QN185	PK5324		125		0.8	100	164	70	
50 QN185	PK5325		5		0.1	100	149	38	
50 QN185	PK5326		17		0.4	100	179	94	
50 QN185	PK5327		5		0.2	100	44	55	
50 QN185	PK5328		10		0.1	100	59	12	
50 QN185	PK5329		5		0.2	100	66	6	
50 QN185	PK5330		9		0.3	100	64	25	
50 QN185	PK5331		5		0.6	100	66	42	
50 QN185	PK5332		29		0.6	100	20	26	
50 QN185	PK5333		5		0.2	100	20	12	
50 QN185	PK5334		17		0.1	100	1080	33	
50 QN185	PK5335		5		0.1	100	2870	26	
50 QN185	PK5336		34		0.1	100	35	24	
50 QN185	PK5337		5		0.1	100	25	24	
50 QN185	PK5338		12		0.4	100	69	98	
50 QN185	PK5339		5		0.4	100	51	36	
50 QN185	PK5340		17		0.2	100	76	36	
50 QN185	PK5341		5		0.1	100	106	52	
50 QN185	PK5342		5		0.1	100	62	90	
50 QN185	PK5343		43		0.5	100	331	66	
50 QN185	PK5344		29		0.1	100	114	52	
50 QN185	PK5345		98		0.7	100	207	71	
50 QN185	PK5346		21		0.3	200	207	73	
50 QN185	PK5347		101		0.7	100	105	96	
50 QN185	PK5348		360		0.2	100	82	58	
50 QN185	PK5349		5		0.2	100	144	52	
50 QN185	PK5350		5		0.5	100	144	73	
50 QN185	PK5351		5		0.1	100	65	40	
50 QN185	PK5352		12		0.2	100	37	27	
50 QN185	PK5353		21		0.2	100	45	40	
50 QN185	PK5354		21		0.7	100	91	40	
50 QN185	PK5355		17		0.1	100	40	31	
50 QN185	PK5356		5		0.2	100	80	23	
50 QN185	PK5357		14		0.2	100	98	18	
50 QN185	PK5358		5		0.3	100	60	27	
50 QN185	PK5359		12		0.3	100	36	10	
50 QN185	PK5360		14		0.5	100	226	29	
50 QN185	PK5362		7		0.2	100	60	6	
50 QN185	PK5363		24		0.2	100	40	6	
50 QN185	PK5363		22		0.4	100	139	7	
50 QN185	PK5364		7		0.3	100	94	16	
50 QN185	PK5365		5		0.2	100	26	5	
50 QN185	PK5366		5		0.3	100	106	11	
50 QN185	PK5367		5		0.2	100	36	7	
50 QN185	PK5368		5		0.8	100	61	9	
50 QN185	PK5369		5		1.0	100	80	17	
50 QN185	PK5370		5		0.3	100	31	20	
50 QN185	PK5371		7		0.8	100	233	11	
50 QN185	PK5372		7		0.1	100	66	32	
50 QN185	PK5373		5		0.1	100	48	18	
50 QN185	PK5374		5		0.1	100	7	6	
50 QN185	PK5375		5		0.1	100	9	13	
50 QN185	PK5376		5		0.1	100	7	3	
50 QN185	PK5377		9		0.2	100	93	28	
50 QN185	PK5378		7		0.5	100	106	8	
50 QN185	PK5379		5		0.1	100	40	3	
50 QN185	PK5380		5		0.8	100	106	17	

50 04185	PK5381	5	0.1	100	51	16
50 04185	PK5382	5	0.1	100	40	21
50 04185	PK5383	5	0.1	100	46	20
50 04185	PK5384	5	0.1	100	26	16
50 04185	PK5385	9	0.1	100	40	24
50 04185	PK5386	9	0.4	100	74	29
50 04185	PK5387	5	0.1	100	44	24
50 04185	PK5388	5	0.1	100	127	31
50 04185	PK5389	5	0.1	100	73	32
50 04185	PK5390	7	0.5	100	70	27
50 04185	PK5391	7	0.9	100	82	19
50 04185	PK5392	5	0.1	100	40	42
50 04185	PK5393	5	0.1	100	24	14
50 04185	PK5394	26	0.1	100	27	13
50 04185	PK5395	19	0.1	100	118	49
50 04185	PK5396	60	0.2	100	120	50
50 04185	PK5397	7	0.2	100	18	10
50 04185	PK5398	5	0.6	100	66	30
50 04185	PK5399	29	0.1	100	38	21
50 04185	PK5400	5	0.3	100	66	26
50 04185	PK5401	5	0.4	100	67	22
50 04185	PK5402	5	0.2	100	32	15
50 04185	PK5403	14	0.2	100	19	7
50 04185	PK5404	5	0.2	100	50	13
50 04185	PK5405	19	03	100	110	34
50 04185	PK5406	7	0.3	100	48	30
50 04185	PK5407	48	0.4	100	38	29
50 04185	PK5408	29	0.2	100	49	40
50 04185	PK5409	14	0.2	100	26	31
50 04185	PK5410	5	0.3	100	32	26
50 04185	PK5411	12	0.2	100	18	17
50 04185	PK5412	17	0.1	100	27	15
50 04185	PK5413	5	0.1	100	12	8
50 04185	PK5414	29	1.4	100	54	26
50 04185	PK5415	5	0.1	100	18	20
50 04185	PK5416	5	0.5	100	74	47
50 04185	PK5417	7	0.5	100	60	63
50 04185	PK5418	14	0.3	100	30	31
50 04185	PK5419	5	0.2	100	21	16
50 04185	PK5420	108	0.7	100	30	24
50 04185	PK5421	19	0.1	100	28	15
50 04185	PK5422	36	0.3	100	30	19
50 04185	PK5423	5	0.2	100	315	22
50 04185	PK5424	5	0.3	100	34	26
50 04185	PK5425	5	0.1	100	29	34
50 04185	PK5426	7	0.1	100	32	32
50 04185	PK5427	12	4.2	100	16	57
50 04185	PK5428	12	0.4	100	10	50
50 04185	PK5429	7	0.6	100	22	87
50 04185	PK5430	17	0.4	100	25	26
50 04185	PK5431	5	0.4	100	150	65
50 04185	PK5501	5	0.5	100	20	25
50 04185	PK5502	5	0.5	100	17	15
50 04185	PK5503	5	0.5	100	18	15
50 04185	PK5504	5	0.5	100	12	16
50 04185	PK5505	7	0.6	100	53	28
50 04185	PK5506	7	0.5	100	18	24
50 04185	PK5507	9	0.4	100	60	63
50 04185	PK5508	5	0.6	100	106	44

50 04185	PK5509	5	0.6	100	37	18
50 04185	PK5510	5	0.6	100	18	16
50 04185	PK5511	5	0.6	100	13	12
50 04185	PK5512	5	0.5	100	36	15
50 04185	PK5513	5	0.5	100	13	12
50 04185	PK5514	5	0.3	100	32	10
50 04185	PK5515	5	0.3	100	27	14
50 04185	PK5516	5	0.3	100	27	44
50 04185	PK5517	5	0.3	100	14	11
50 04185	PK5518	5	0.4	100	10	9
50 04185	PK5519	5	0.2	100	13	12
50 04185	PK5520	5	0.2	100	12	10
50 04185	PK5521	5	0.2	100	12	10
50 04185	PK5522	7	0.2	100	18	10
50 04185	PK5523	5	0.3	100	23	12
50 04185	PK5524	5	0.3	100	36	12
50 04185	PK5525	5	0.3	100	26	11
50 04185	PK6227	12	0.2	100	28	21
50 04185	PK6228	5	0.2	100	12	14
50 04185	PK6229	497	3.3	200	3260	207
50 04185	PK6230	36	0.7	100	310	48
50 04185	PK6231	12	0.4	100	244	51
50 04185	PK6232	55	0.6	100	158	44
50 04185	PK6233	5	0.1	100	33	46
50 04185	PK6234	5	1.0	100	78	42
50 04185	PK6235	5	0.7	100	71	39
50 04185	PK6236	5	0.4	100	66	37
50 04185	PK6237	137	2.1	100	1010	36
50 04185	PK6238	43	1.5	100	5260	68
50 04185	PK6239	5	1.5	100	180	38
50 04185	PK6240	3428	6.2	100	2950	155
50 04185	PK6241	43	0.9	100	100	34
50 04185	PK6242	26	0.9	100	167	38
50 04185	PK6243	31	0.7	100	112	38
50 04185	PK6244	26	0.3	100	110	44
50 04185	PK6245	38	0.5	100	97	46
50 04185	PK6246	17	0.5	100	188	44
50 04185	PK6247	12	0.4	100	62	51
50 04185	PK6248	38	0.1	100	124	55
50 04185	PK6249	411	4.2	100	1670	4920
50 04185	PK6250	5	0.1	100	24	18
50 04185	PK6251	5	0.1	100	42	22
50 04185	PK6252	31	0.9	100	176	67
50 04185	PK6253	5	0.2	100	26	12
50 04185	PK6254	5	0.7	100	50	26
50 04185	PK6255	5	0.8	100	26	11
50 04185	PK6257	5	0.3	100	31	15
50 04185	PK6258	137	0.4	100	139	58
50 04185	PK6259	102	0.3	100	141	93
50 04185	PK6260	50	0.4	100	122	104
50 04185	PK6261	43	0.3	100	50	24
50 04185	PK6262	5	0.1	100	30	21
50 04185	PK6263	12	0.4	100	82	37
50 04185	PK6264	12	0.3	100	62	33
50 04185	PK6265	43	0.6	100	90	34
50 04185	PK6266	26	0.2	100	93	53
50 04185	PK6267	7	0.1	100	17	23
50 04185	PK6268	17	0.4	100	162	110
50 04185	PK6269	5	0.6	100	120	16

50 04185	PK6270	5	0.4	100	66	19
50 04185	PK6271	5	0.3	100	95	19
50 04185	PK6272	7	0.1	100	18	18
50 04185	PK6273	14	0.1	100	26	22
50 04185	PK6274	5	0.6	100	40	14
50 04185	PK6275	7	0.1	100	26	65
50 04185	PK6276	9	0.1	100	36	34
50 04185	PK6277	9	0.1	100	54	53
50 04185	PK6278	48	0.1	100	28	27
50 04185	PK6279	12	0.1	100	36	33
50 04185	PK6280	9	0.2	100	34	22
50 04185	PK6281	17	0.1	100	76	23
50 04185	PK6282	14	0.4	100	38	19
50 04185	PK6283	48	0.2	100	41	37
50 04185	PK6284	17	0.1	100	112	30
50 04185	PK6285	43	0.1	100	170	98
50 04185	PK6286	14	0.1	100	119	119
50 04185	PK6287	14	0.1	100	142	125
50 04185	PK6288	12	0.3	100	34	23
50 04185	PK6289	9	0.2	100	533	317
50 04185	PK6290	5	0.2	100	17	18
50 04185	PK6291	7	0.1	100	147	29
50 04185	PK6292	9	0.2	100	104	73
50 04185	PK6293	19	0.2	100	34	103
50 04185	PK6294	5	0.2	100	34	74
50 04185	PK6295	5	0.1	100	990	287
50 04185	PK6296	7	0.1	100	271	50
50 04185	PK6297	7	0.1	100	170	47
50 04185	PK6298	26	0.2	100	382	202
50 04185	PK6299	142	0.2	100	87	88
50 04185	PK6300	7	0.3	100	85	48
50 04185	PK6301	7	0.2	100	2070	143
50 04185	PK6302	5	0.2	100	70	47
50 04185	PK6303	26	0.1	100	60	86
50 04185	PK6304	9	0.1	100	110	57
50 04185	PK6305	43	0.2	100	262	185
50 04185	PK6306	5	0.2	100	25	34
50 04185	PK6307	5	0.1	100	1480	250
50 04185	PK6308	5	0.2	100	1340	259
50 04185	PK6309	22	0.1	100	381	303
50 04185	PK6310	5	0.4	100	42	56
50 04185	PK6311	12	1.2	100	1590	942
50 04185	PK6312	7	0.6	100	578	170
50 04185	PK6313	7	0.2	100	232	120
50 04185	PK6314	19	0.3	100	45	28
50 04185	PK6359	5	0.4	100	56	53
50 04185	PK6360	5	0.3	100	69	54
50 04185	PK6361	5	0.9	200	157	297
50 04185	PK6362	5	0.6	100	133	86
50 04185	PK6363	12	0.4	100	40	70
50 04185	PK6364	5	0.1	100	34	56
50 04185	PK6365	7	0.2	100	46	41
50 04185	PK6366	5	0.2	100	34	47
50 04185	PK6367	5	0.1	100	46	41
50 04185	PK6368	12	0.1	100	46	39
50 04185	PK6369	5	0.1	100	38	39
50 04185	PK6370	5	0.1	100	25	32
50 04185	PK6371	7	0.1	100	18	35
50 04185	PK6372	5	0.1	100	50	40

50 04185	PK6373	5	0.2	100	156	44
50 04185	PK6374	5	0.1	100	122	62
50 04185	PK6375	5	0.2	100	78	36
50 04185	PK6376	5	0.1	100	38	22
50 04185	PK6377	5	0.2	100	57	28
50 04185	PK6379	5	0.9	100	95	32
50 04185	PK6380	5	0.1	100	51	36
50 04185	PK6381	7	0.2	100	38	31
50 04185	PK6382	5	0.1	100	54	30
50 04185	PK6383	5	0.2	100	20	30
50 04185	PK6384	5	0.1	100	33	31
50 04185	PK6385	5	0.2	100	36	27
50 04185	PK6386	5	0.2	100	41	27
50 04185	PK6387	5	0.2	100	35	25
50 04185	PK6388	5	0.2	100	61	27
50 04185	PK6389	5	0.1	100	104	28
50 04185	PK6390	5	0.2	100	71	33
50 04185	PK6391	5	0.1	100	74	30
50 04185	PK6392	5	0.1	100	118	39
50 04185	PK6393	5	0.1	100	47	29
50 04185	PK6394	5	0.2	100	211	41
50 04185	PK6395	5	0.2	100	27	45
50 04185	PK6396	5	0.2	100	135	33
50 04185	PK6397	5	0.3	100	94	39
50 04185	PK6398	5	0.1	100	79	34
50 04185	PK6399	5	0.7	100	182	47
50 04185	PK6400	5	0.5	100	68	30
50 04185	PK6401	5	0.2	100	97	45
50 04185	PK6402	5	0.2	100	62	18
50 04185	PK6403	5	0.2	100	165	72
50 04185	PK6404	5	0.5	100	128	68
50 04185	PK6405	5	0.2	100	63	37
50 04185	PK8207	5	0.4	100	85	72
50 04185	PK8208	10	1.3	100	56	18
50 04185	PK8209	34	0.2	100	30	23
50 04185	PK8210	19	0.6	100	48	30
50 04185	PK8211	34	0.1	100	20	27
50 04185	PK8212	24	1.4	100	54	31
50 04185	PK8213	19	0.5	100	25	26
50 04185	PK8214	9	1.4	100	47	31
50 04185	PK8215	17	0.4	100	29	32
50 04185	PK8216	26	0.6	100	37	40
50 04185	PK8217	29	0.4	100	12	42
50 04185	PK8218	36	0.5	100	15	43
50 04185	PK8219	14	0.3	100	28	25
50 04185	PK8220	5	0.3	100	12	19
50 04185	PK8221	5	1.2	100	56	11
50 04185	PK8222	12	0.7	100	59	25
50 04185	PK8223	17	0.3	100	42	33
50 04185	PK8224	12	0.4	100	18	21
50 04185	PK8225	17	0.3	100	29	27
50 04185	PK8226	24	0.2	100	42	30
50 04185	PK8227	5	0.1	100	33	28
50 04185	PK8228	12	0.6	100	34	25
50 04185	PK8229	12	0.4	100	10	15
50 04185	PK8230	21	0.1	100	22	18
50 04185	PK8231	74	0.9	100	128	157
50 04185	PK8234	34	0.1	100	160	41
50 04185	PK8235	29	0.1	100	59	22

50 04185	PK8236	29	0.1	100	44	21
50 04185	PK8237	34	0.2	100	32	19
50 04185	PK8238	24	0.4	100	26	21
50 04185	PK8239	29	0.4	100	143	24
50 04185	PK8240	21	0.5	100	13	18
50 04185	PK8241	82	0.2	100	58	16
50 04185	PK8242	36	0.3	100	214	17
50 04185	PK8260	14	0.4	100	102	98
50 04185	PK8261	7	1.3	100	61	38
50 04185	PK8262	5	0.1	100	40	46
50 04185	PK8263	5	0.7	100	52	39
50 04185	PK8264	5	0.3	100	50	38
50 04185	PK8265	7	0.1	100	18	27
50 04185	PK8266	5	0.1	100	32	33
50 04185	PK8267	5	0.5	100	20	30
50 04185	PK8268	5	0.2	100	25	35
50 04185	PK8269	5	0.6	100	10	16
50 04185	PK8270	5	0.4	100	134	26
50 04185	PK8271	5	0.3	100	32	47
50 04185	PK8272	14	0.3	100	50	43
50 04185	PK8273	5	0.3	100	41	46
50 04185	PK8274	7	0.3	100	31	36
50 04185	PK8275	9	0.1	100	33	43
50 04185	PK8276	12	0.2	100	47	51
50 04185	PK8277	5	0.3	100	19	35
50 04185	PK8285	5	0.3	300	18	25
50 04185	PK8286	5	0.2	100	12	31
50 04185	PK8287	5	0.3	100	8	10
50 04185	PK8288	21	0.3	100	24	20
50 04185	PK8289	5	0.2	100	22	26
50 04185	PK8290	5	1.1	100	21	34
50 04185	PK8291	5	1.1	100	19	30
50 04185	PK8292	12	0.6	100	10	24
50 04185	PK8293	50	0.2	100	19	34
50 04185	PK8294	5	0.2	100	27	41
50 04185	PK8295	12	0.2	100	16	27
50 04185	PK8296	19	0.1	100	10	16
50 04185	PK8297	14	0.7	100	24	48
50 04185	PK8298	7	0.2	100	10	10
50 04185	PK8299	5	0.2	100	26	38
50 04185	PK8300	5	0.1	100	9	10
50 04185	PK8301	5	0.1	100	7	8
50 04185	PK8302	7	0.1	100	18	10
50 04185	PK8303	5	0.3	100	17	17
50 04185	PK8304	5	0.1	100	60	39
50 04185	PK8305	12	0.1	100	8	11
50 04185	PK8306	5	0.1	100	39	27
50 04185	PK8307	9	0.1	100	10	5
50 04185	PK8308	9	0.1	100	6	9
50 04185	PK8309	14	0.1	100	104	42
50 04185	PK8310	5	0.5	100	15	17
50 04185	PK8311	5	0.1	100	12	18
50 04185	PK8312	5	0.1	100	20	14
50 04185	PK8329	5	0.3	100	25	20
50 04185	PK8354	29	0.1	100	80	31
50 04185	PK8403	36	0.7	100	285	351
50 04185	PK8404	31	0.8	100	199	263
50 04185	PK8405	31	1.0	100	276	314
50 04185	PK8406	67	0.8	100	255	310

50 04185	PK8407	48	0.9	100	280	297
50 04185	PK8408	14	0.3	100	52	60
50 04185	PK8409	9	0.3	100	114	223
50 04185	PK8410	79	0.4	100	370	115
50 04185	PK8411	48	0.6	100	253	173
50 04185	PK8412	89	0.4	100	518	296
50 04185	PK8413	120	0.4	100	362	303
50 04185	PK8414	43	0.1	100	141	93
50 04185	PK8415	34	0.3	100	85	26
50 04185	PK8416	36	0.1	100	255	97
50 04185	PK8417	19	0.1	100	108	53
50 04185	PK8418	171	0.3	100	65	38
50 04185	PK8419	31	0.2	100	105	50
50 04185	PK8420	39	0.1	100	138	53
50 04185	PK8421	5	0.4	100	64	39
50 04185	PK8422	5	0.1	100	61	43
50 04185	PK8423	9	0.2	100	137	66
50 04185	PK8424	67	0.4	100	152	45
50 04185	PK8425	5	0.1	100	137	49
50 04185	PK8426	5	0.1	100	184	60
50 04185	PK8427	5	0.2	100	60	41
50 04185	PK8428	46	2.4	100	178	106
50 04185	PK8429	12	0.2	100	165	111
50 04185	PK8430	5	0.2	100	155	59
50 04185	PK8431	5	0.1	100	77	32
50 04185	PK8432	137	3.5	100	455	565
50 04185	PK8433	12	1.1	100	173	84
50 04185	PK8454	5	0.2	100	59	33
50 04185	PK8455	5	0.3	100	103	76
50 04185	PK8456	5	0.1	100	57	38
50 04185	PK8457	5	0.1	100	56	27
50 04185	PK8458	5	0.1	100	27	31
50 04185	PK8459	5	0.4	100	78	44
50 04185	PK8460	5	0.1	100	34	27
50 04185	PK8461	5	0.2	100	54	36
50 04185	PK8462	5	0.1	100	45	32
50 04185	PK8463	5	0.1	100	37	29
50 04185	PK8464	5	0.2	100	29	27
50 04185	PK8465	5	0.1	100	53	30
50 04185	PK8466	5	0.1	100	28	24
50 04185	PK8467	5	0.5	100	17	21
50 04185	PK8468	5	0.1	100	22	21
50 04185	PK8469	5	0.1	100	72	20
50 04185	PK8470	5	0.2	100	115	28
50 04185	PK8471	5	0.2	100	183	38
50 04185	PK8473	5	0.1	100	80	31
50 04185	PK8474	5	0.1	100	49	34
50 04185	PK8475	5	0.1	100	81	32
50 04185	PK8476	5	0.1	100	41	29
50 04185	PK8477	5	0.1	100	46	30
50 04185	PK8478	5	0.4	100	142	27
50 04185	PK8479	5	0.9	100	46	32
50 04185	PK8480	5	0.1	100	95	27
50 04185	PK8481	5	0.1	100	27	27
50 04185	PK8482	5	0.1	100	93	29
50 04185	PK8483	5	0.3	100	248	28
50 04185	PK8486	5	0.1	100	237	30
50 04185	PK8487	5	0.1	100	456	46
50 04185	PK8488	5	0.1	100	87	24

50 04185	PK8489	5	0.1	100	123	28
50 04185	PK8490	5	0.1	100	24	32
50 04185	PK8491	5	0.1	100	199	33
50 04185	PK8493	5	0.1	100	239	39
50 04185	PK8494	5	0.1	100	158	29
50 04185	PK8495	5	0.1	100	91	32
50 04185	PK8496	5	0.1	100	45	28
50 04185	PK8497	5	0.1	100	389	415
50 04185	PK8498	5	0.1	100	67	38
50 04185	PK8499	5	0.1	100	97	55
50 04185	PK8500	5	0.1	100	112	38
50 04185	PK8501	5	0.1	100	48	25
50 04185	PK8502	5	0.1	100	80	26
50 04185	PK8504	5	0.1	100	79	25
50 04185	PK8505	5	0.1	100	131	54
50 04185	PK8506	5	0.1	100	78	31
50 04185	PK8507	5	0.1	100	109	26
50 04185	PK8508	5	0.1	10	136	32
50 04185	PK8509	5	0.1	10	112	28
50 04185	PK8510	5	0.1	100	265	63
50 04185	PK8511	5	0.1	100	71	28
50 04185	PK8512	5	0.1	100	46	20
50 04185	PK8513	5	0.8	100	67	20
50 04185	PK8514	5	0.6	100	64	17
50 04185	PK8515	5	0.7	100	40	19
50 04185	PK8516	5	0.7	100	45	19
50 04185	PK8517	5	0.6	100	84	14
50 04185	PK8518	5	0.6	100	63	19
50 04185	PK8519	5	0.7	100	83	18
50 04185	PK8520	5	0.8	100	102	23
50 04185	PK8521	5	0.6	100	123	109
50 04185	PK8522	79	0.8	100	331	126
50 04185	PK8523	5	0.7	100	82	18
50 04185	PK8524	5	0.5	100	19	12
50 04185	PK8526	7	0.5	100	31	14
50 04185	PK8527	5	0.5	100	42	14

..... END REPORT .....

.DATE 19 NOV 85 09:59:58 RID 78 24 SEP 85 MINERL
*CHEMICAL LAB ANALYSIS REPORT FOR PROJECT:PETEKA 1-4 CLAIMS LAB : APX (TYPE F)

*RS.	PRJ	YR	ROCK.	SAMPLE. NUMBER.	AU AA PPB.	AG AA PPM.	CU AA PPM.	PB AA PPM.	ZN AA PPM.	AS AA PPM.	.	.
50	06185			PK4105	14	0.2	16	10	42	100		
50	06185			PK4106	5	0.2	174	85	215	100		
50	06185			PK4107	19	0.2	128	30	129	100		
50	06185			PK4108	46	0.1	99	40	96	100		
50	06185			PK4109	14	0.1	247	44	150	100		
50	06185			PK4110	29	0.1	276	39	120	100		
50	06185			PK4111	14	0.2	270	24	162	100		
50	06185			PK4112	5	0.1	158	30	116	100		
50	06185			PK4113	5	0.1	211	9	165	100		
50	06185			PK4114	5	0.1	247	14	160	100		
50	06185			PK4115	7	0.2	56	9	96	100		
50	06185			PK4116	9	0.1	26	6	63	100		
50	06185			PK4117	19	0.1	16	8	42	100		
50	06185			PK4118	14	0.1	68	142	66	100		
50	06185			PK4119	19	0.5	148	24	146	100		
50	06185			PK4120	12	0.3	170	46	161	100		
50	06185			PK4121	5	0.2	244	30	204	100		
50	06185			PK4122	21	0.3	196	51	191	100		
50	06185			PK4123	5	0.4	143	46	160	100		
50	06185			PK4124	50	0.2	78	25	130	100		
50	06185			PK4125	19	0.1	246	11	148	100		
50	06185			PK4126	25	0.3	44	13	112	100		

..... END REPORT .....

GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,424

.DATE 13:02:27 RID 84 26 NOV 85 MINERL
*CHEMICAL LAB ANALYSIS REPORT FOR PROJECT: PETEKA 1 TO 4 LAB : APX (TYPE F)

RS	PRJYR	ROCK	SAMPLE NUMBER	ZN AA PPM	CU FAA PCT
80	04185		PK2201		
80	04185		PK2202		
80	04185		PK2203		8.40
80	04185		PK2204		
80	04185		PK2205		0.48
80	04185		PK2206		0.14
80	04185		PK2207		
80	04185		PK2208		0.70
80	04185		PK2209		16.50
80	04185		PK2210		8.25
80	04185		PK2211		0.72
80	04185		PK2212		
80	04185		PK2213		0.28
80	04185		PK2214		
80	04185		PK2215		
80	04185		PK2216		
80	04185		PK2217		3.20
80	04185		PK2218		1.20
80	04185		PK2219		1.60
80	04185		PK2220		4.40
80	04185		PK2221		2.42
80	04185		PK2222		8.40
80	04185		PK2223		
80	04185		PK2224		0.70
80	04185		PK2225		2.20
80	04185		PK2226		
80	04185		PK2227		
80	04185		PK2228		0.40
80	04185		PK2229		1.20
80	04185		PK2230		0.70
80	04185		PK2231		1.10
80	04185		PK2232		3.00
80	04185		PK2233		0.50
80	04185		PK2234		4.34
80	04185		PK2235		4.15
80	04185		PK2236		11.64
80	04185		PK2237		3.00
80	04185		PK2238		2.78
80	04185		PK2239		1.80
80	04185		PK2240		3.00
80	04185		PK2241		2.90
80	04185		PK2242		2.10
80	04185		PK2243		0.70
80	04185		PK2244		0.20
80	04185		PK2245		1.90
80	04185		PK2246		2.00
80	04185		PK2247		
80	04185		PK2248		0.80
80	04185		PK2261		2.00
80	04185		PK2262		0.80
80	04185		PK2263		1.20
80	04185		PK2264		
80	04185		PK2265		
80	04185		PK2266		

80	04185		PK2267		2.80
80	04185		PK2268		
80	04185		PK2269		5.50
80	04185		PK2270		
80	04185		PK2271		1.70
80	04185		PK2272		6.10
80	04185		PK2273		
80	04185		PK2274		
80	04185		PK2275		
80	04185		PK2276		
80	04185		PK2277		
80	04185		PK2278		1.32
80	04185		PK2279		6.00
80	04185		PK2280		2.72
50	04185		PK4105	42	
50	04185		PK4106	215	
50	04185		PK4107	129	
50	04185		PK4108	96	
50	04185		PK4109	150	
50	04185		PK4110	120	
50	04185		PK4111	162	
50	04185		PK4112	116	
50	04185		PK4113	165	
50	04185		PK4114	160	
50	04185		PK4115	96	
50	04185		PK4116	62	
50	04185		PK4117	42	
50	04185		PK4118	66	
50	04185		PK4119	146	
50	04185		PK4120	161	
50	04185		PK4121	204	
50	04185		PK4122	191	
50	04185		PK4123	160	
50	04185		PK4124	130	
50	04185		PK4125	148	
50	04185		PK4126	112	
50	04185		PK4127	173	
50	04185		PK4128	112	
50	04185		PK4129	146	
50	04185		PK4130	130	
50	04185		PK4131	34	
50	04185		PK4132	56	
50	04185		PK4133	48	
50	04185		PK4134	142	
50	04185		PK4135	102	
50	04185		PK4136	124	
50	04185		PK4137	31	
50	04185		PK4138	55	
50	04185		PK4139	126	
50	04185		PK4140	158	
50	04185		PK4141	156	
50	04185		PK4142	137	
50	04185		PK4143	36	
50	04185		PK4144	102	
50	04185		PK4145	106	
50	04185		PK4146	33	
50	04185		PK4147	52	
50	04185		PK4148	75	
50	04185		PK4149	78	

50	04185		PK4167	124	
50	04185		PK4168	126	
50	04185		PK4169	158	
50	04185		PK4170	92	
50	04185		PK4171	65	
50	04185		PK4172	85	
50	04185		PK4173	80	
50	04185		PK4174	75	
50	04185		PK4175	146	
50	04185		PK4176	227	
50	04185		PK4177	292	
50	04185		PK4178	341	
50	04185		PK4179	341	
50	04185		PK4180	441	
50	04185		PK4181	392	
50	04185		PK4182	395	
50	04185		PK4183	378	
50	04185		PK4184	452	
50	04185		PK4185	547	
50	04185		PK4186	386	
50	04185		PK4187	467	
50	04185		PK4188	406	
50	04185		PK4189	349	
50	04185		PK4190	180	
50	04185		PK4191	157	
50	04185		PK4192	145	
50	04185		PK4193	177	
50	04185		PK4194	180	
50	04185		PK4195	248	
50	04185		PK4196	94	
50	04185		PK4197	158	
50	04185		PK4198	66	
50	04185		PK4199	54	
50	04185		PK4200	60	
50	04185		PK4201	55	
50	04185		PK4202	57	
50	04185		PK4203	68	
50	04185		PK4204	75	
50	04185		PK4205	93	
50	04185		PK4206	79	
50	04185		PK4207	95	
50	04185		PK4208	126	
50	04185		PK4209	89	
50	04185		PK4210	92	
50	04185		PK4211	120	
50	04185		PK4212	134	
50	04185		PK4213	93	
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50 04185	PK5347	144
50 04185	PK5348	155
50 04185	PK5349	124
50 04185	PK5350	178
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50 04185	PK5353	102
50 04185	PK5354	142
50 04185	PK5355	187
50 04185	PK5356	158
50 04185	PK5357	128
50 04185	PK5358	106
50 04185	PK5359	42
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50 04185	PK5363	99
50 04185	PK5364	153
50 04185	PK5365	62
50 04185	PK5366	91
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50 04185	PK8522	83
50 04185	PK8523	93
50 04185	PK8524	54
50 04185	PK8526	65
50 04185	PK8527	70

..... END REPORT .....

APPENDIX III

ANALYTICAL METHODS

APEX ANALYTICAL LABORATORIES, CALGARY

SAMPLE PREPARATION

ROCKS AND DIAMOND DRILL CORE:

These samples are crushed by a primary jaw crusher then through a secondary cone crusher to a particle size of 1/4 inch. The sample is now riffled and a 200 gram portion is kept and pulverized in a temer mill to -200 mesh fraction. The remainder of the sample is kept as a reject. The pulverized sample is rolled to make sure it is well mixed and is then weighed and analyzed.

SOILS

Soil samples are dried and then screened through a 80 mesh stainless steel screen. The -80 mesh sample fraction is then weighed and analyzed. If a soil sample contains an excess of pebbles or is too small, then the entire sample must be pulverized to -200 mesh. This is the only way in which enough material may be found for analysis.

GEOCHEMICAL ANALYSIS - AQUA REGIA DIGESTION

1) Place 18 x 150 mm test tubes in aluminum digestion blocks.

2) Weigh 0.5 g of sample into test tubes.

3) Intersperse samples with blanks, checks and certified reference materials.

4) If samples are highly organic, dry ash in aluminum blocks on hot plates with hot plates set at 6-7 for 2-3 hours. Cool.

5) Add 2 ml conc. HNO_3 and heat 40-45 minutes with hot plates set a 5. Cool.

6) Transfer to wire racks but leave aluminum blocks on hot plates.

7) Add 3 ml conc. HCl. Let sit 15-25 minutes.

8) Add 2 ml H_2O to the blanks.

9) Place test tubes back in aluminum blocks, one row at a time watching for any samples that might have too violent a reaction.

   If samples start to overflow, cool test tubes in a beaker of cold water and then place back in aluminum blocks.

10) Digest samples for 2 hours.

11) Add 1.0 ml of ammonium acetate solution to each tube and leave on a hot plate a further 15 minutes.

12) Remove samples from aluminum blocks, transfer to wire racks and let cool.

13) Dilute to 10 ml with 1 N HNO_3: vortex and allow to stand for 3 hours.

14) Read on A.A. against similarly prepared standards.

NOTE: Arsenic analysis by semi quantitative method, is run from the above solutions using a varian AA-5 spec. and recorder (if necessary to graph results.

FIRE ASSAYING

The following is a brief outline of the mechanics of fire assaying for gold and silver.

The ore is mixed with litharge (PBO) and various fluxed and a reducing agent or oxidizing agent is added, (flour or niter) to form a lead button which weighs between 25 and 35 grams. The whole mix is melted in a fire clay crucible at around 1000°c for 30-40 minutes. The lead collects all the gold, silver and precious metals. The molten assay is taken from the furnace and poured into cone shaped iron molds and due to the differences in the specific gravity of the lead and the slag, the lead collects in the bottom of the mold. When cooled the lead button is separated from the slag and hammered into a cube for ease of handling. The button is then placed in a pre-heated cupel in a furnace with the temperature set at around 900°c. A current of air passes over the top of the cupel containing the lead. The lead is converted back to litharge and is absorbed by the cupel.

Gold and silver are not affected and so remain in the cupel as a small bead. After cupellation is complete (about 60 minutes), the cupel is removed from the furnace. The small bead is then cleaned, flattened with a hammer and transferred to a parting cup. This flattened bead consists of a mixture of gold and silver.

The bead is weighed on a gold balance or micro balance. The bead is parted by placing it in hot, dilute nitric acid which dissolves all the silver but leaves the gold intact. The gold is washed free of silver nitrate by decantations with water and dilute ammonium hydroxide and then annealed at red heat and weighed as pure gold. The difference between the two weighings is the weight of silver.

The bead is weighed in milligrams and the results expressed in ounces per ton in the original sample.

METHOD FOR THE DETERMINATON OF GOLD BY FIRE ASSAY

PRECONCENTRATON AND ATOMIC ABSORPTION ANALYSES

1. A 1 assay ton (29.166g) sample is weighed into a 30 g crucible, 1 mg of Ag is added as a collected agent.

2. Enough flux reducing or oxidizing reagent is added to produce a lead button.

3. The sample is transferred into an assay furnace and heated to 2000°F for 40-45 minutes.

4. The fusion is poured into a iron mould.

5. The slag is separated from the lead button in which Au and Ag has been alloyed.

6. The lead button is again transferred to a cupel in the assay furnace.

7. By heating slightly below melting point of Ag, Lead is eliminated either by vaporizing or absorbing into the cupel in about 40 minutes.

8. A bead which contains all the Au in the 1 assay ton sample is recovered on the cupel.

9. The bead is transferred to a 16 x 150 mm test tube, 1 ml of concentrated HNO_3, and 4 ml of 1:1 HCl are added to the tube.

10. The tube is heated on the hot plate for approximately 1 hour, or until all the residue is dissolved in the tubes.

11. The volume is adjusted to 10 ml with 1:1 HCl and the samples are mixed.

12. Samples are read on a Varian AA5 Atomic absorption spectrophotometer.

PETEKA #1

PETEKA #2

2220

2221

2222

2236

2237

2238

2233

2234

2235

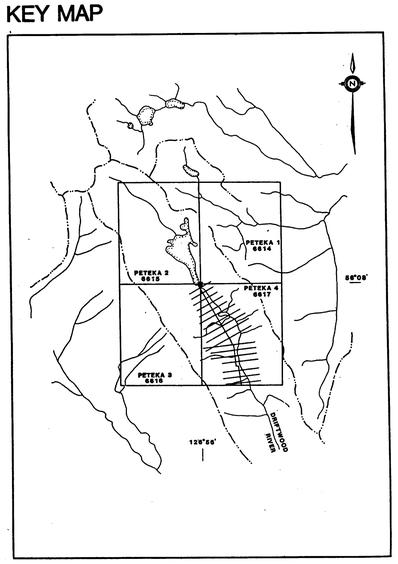
2239

2240,2241

2242

LCP

KEY MAP



GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,424

METERS
100 0 100 200 300 400

Suncor Inc. Resources Group

COAL AND MINERALS DEPARTMENT

BEAR LAKE PROJECT

PETEKA CLAIMS 1 & 2

ROCK SAMPLE LOCATIONS

DATE	SCALE	N.T.S.	DRAWING No.
AUGUST 1985	1:5000	94D/2E	PT 001

PETEKA#3

PETEKA#4

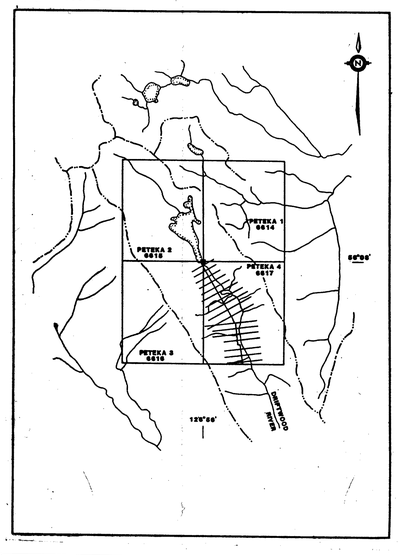
LCP

N

2270 2229 2230 2231 2243 2232 2244 2228 2271 2272 2211 2227 2246 2224 2225 2226 2208 2209 2210 2205 2207 2212 2206 2213 2245 2204 2202 2203 2219 2278 2279 2280 2247 2248 2277 2276 2275 2268 2273 2274 2215 2216 2217 2218 2267 2223

Driftwood River

KEY MAP



GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,424

METERS
100 0 100 200 300 400

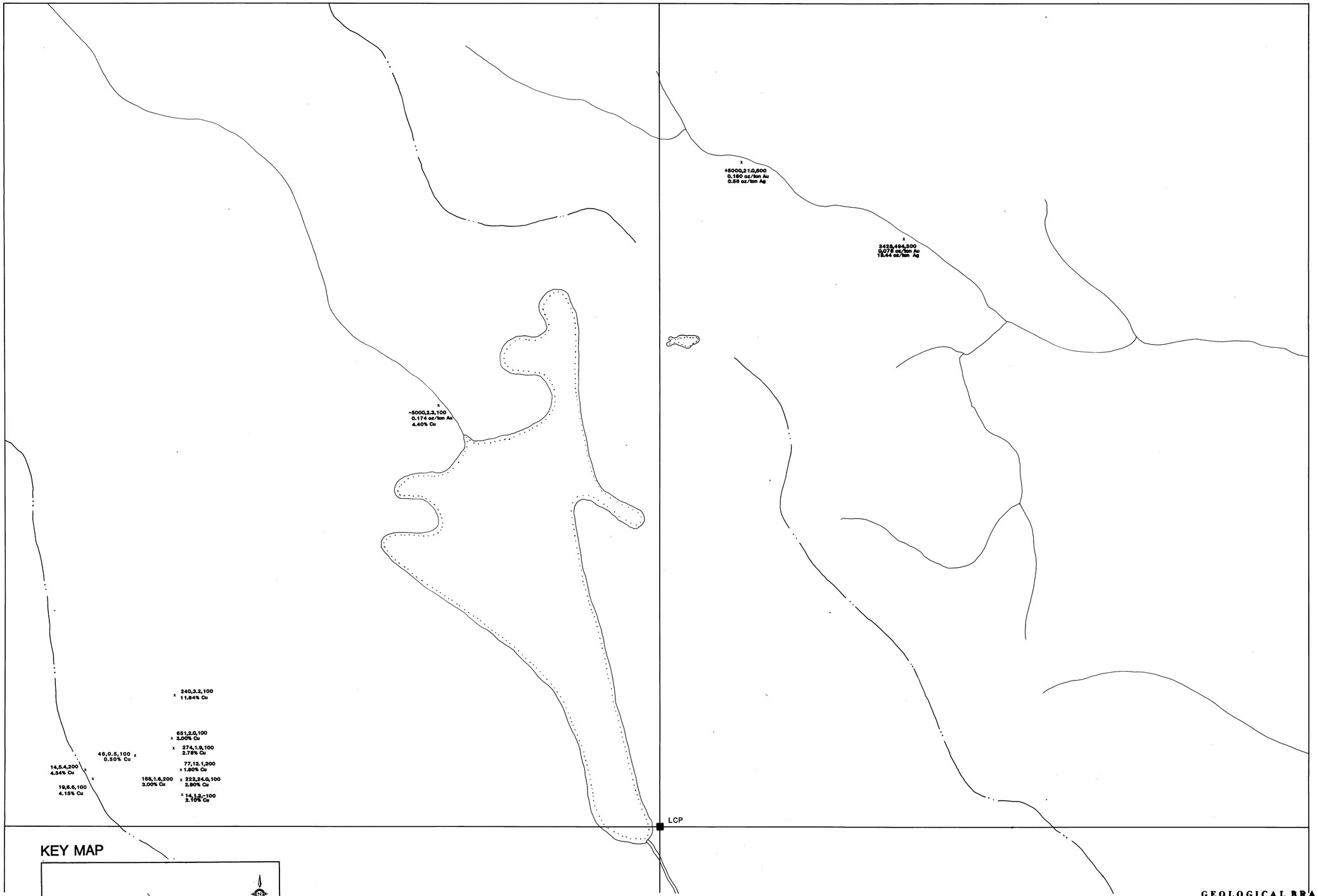
Suncor Inc. Resources Group — COAL AND MINERALS DEPARTMENT

BEAR LAKE PROJECT

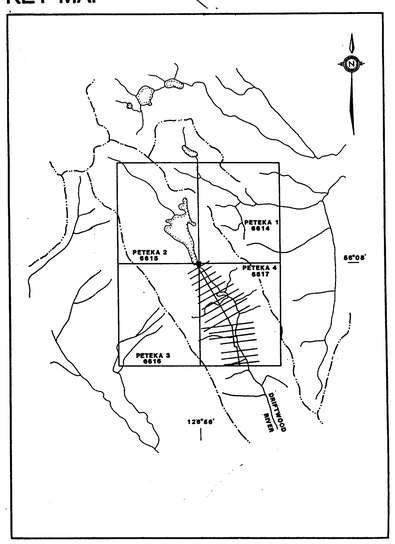
PETEKA CLAIMS 3 & 4

ROCK SAMPLE LOCATIONS

DATE	SCALE	N.T.S.	DRAWING No.
AUGUST 1985	1:5000	94D/2E	PT 002



KEY MAP



LEGEND

ASSAY AND ANALYTICAL RESULTS

x Rock sample locations

x Au(ppb) Ag(ppm) As(ppm)
Au oz/ton
Ag oz/ton
Cu%

GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,424

METERS
100 0 100 200 300 400

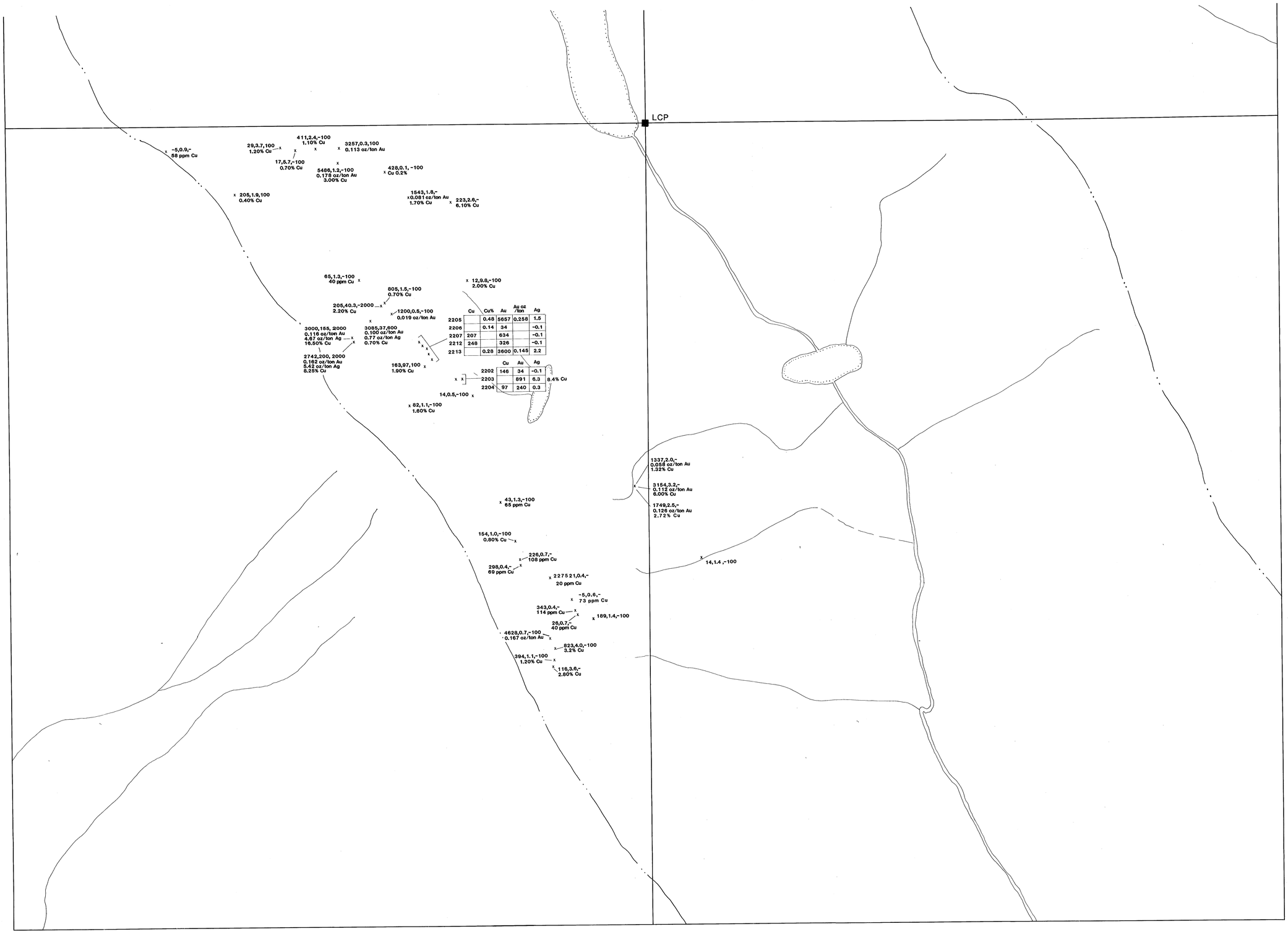
Suncor Inc. Resources Group — COAL AND MINERALS DEPARTMENT

BEAR LAKE PROJECT

PETEKA CLAIMS 1 & 2

ASSAY AND ANALYTICAL RESULTS

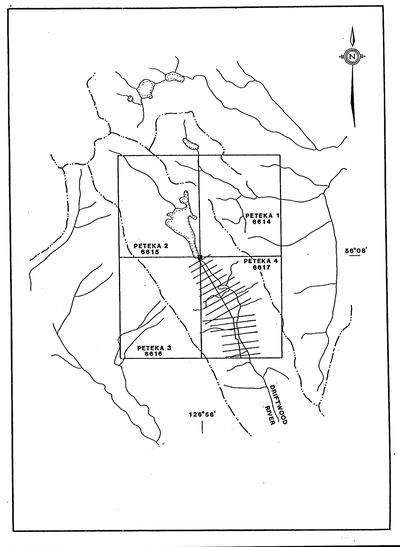
DATE	SCALE	N.T.S.	DRAWING No.
AUGUST 1985	1:5000	94D/2E	PT 003



	Cu	Cu%	Au	Au oz /ton	Ag
2205		0.48	5657	0.258	1.5
2206		0.14	34		-0.1
2207	207		634		-0.1
2212	248		326		-0.1
2213		0.28	3600	0.145	2.2

	Cu	Au	Ag
2202	146	34	-0.1
2203		891	6.3
2204	97	240	0.3

KEY MAP



LEGEND

ASSAY AND ANALYTICAL RESULTS

x Rock sample locations

x Au(ppb) Ag(ppm) As(ppm)
Au oz/ton
Ag oz/ton
Cu %

GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,424

METERS
100 0 100 200 300 400

Suncor Inc. Resources Group — COAL AND MINERALS DEPARTMENT

BEAR LAKE PROJECT

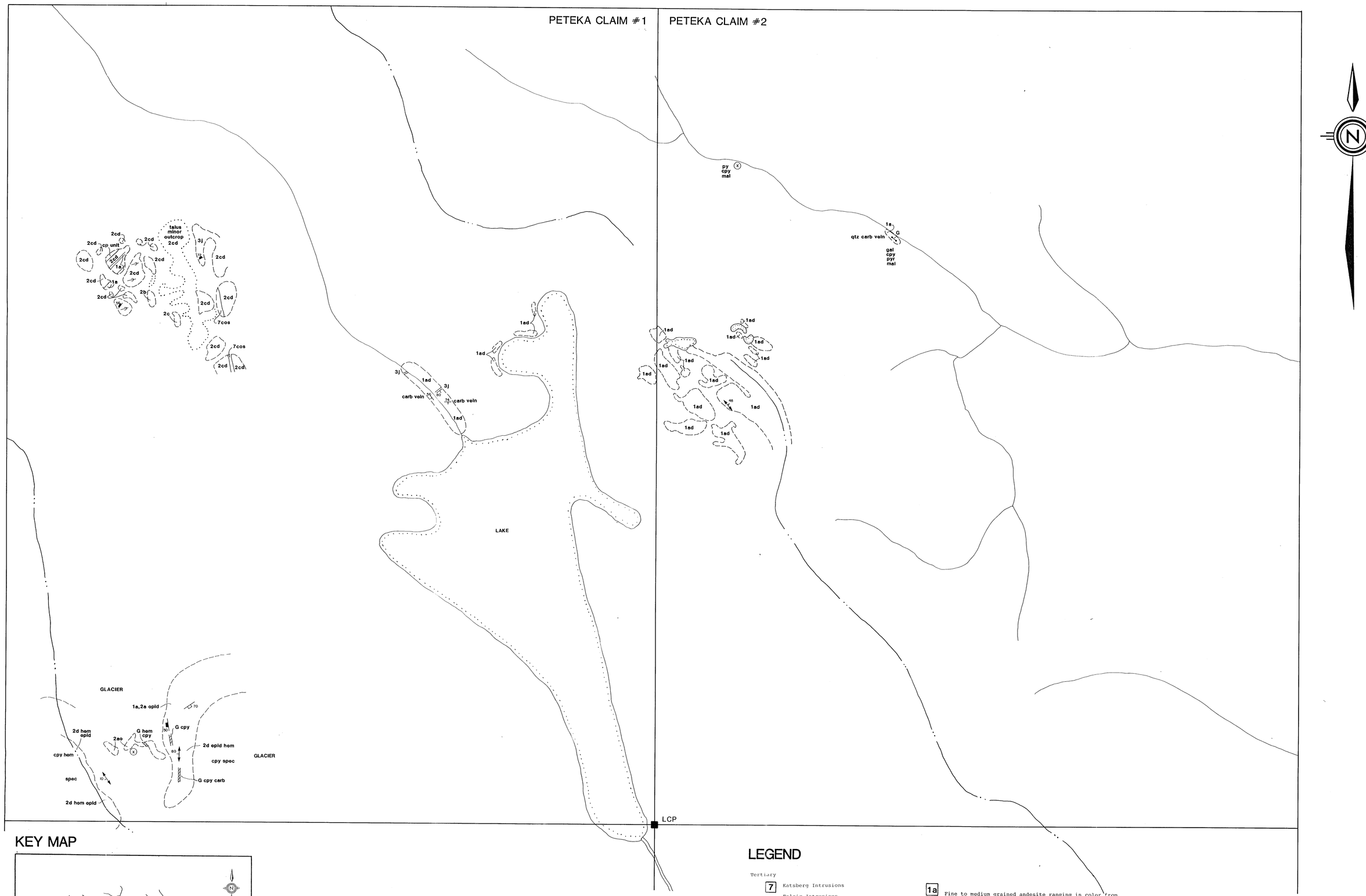
PETEKA CLAIMS 3 & 4

ASSAY AND ANALYTICAL RESULTS

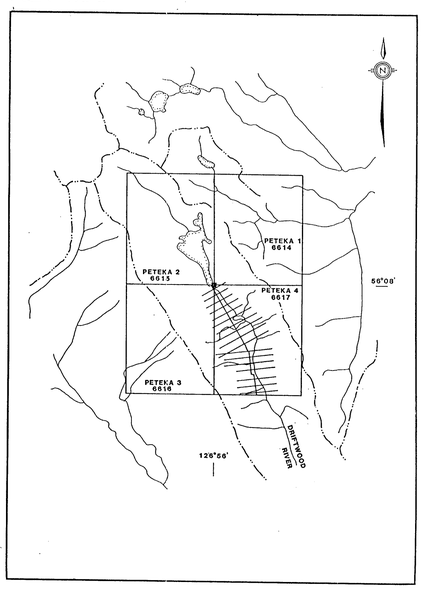
DATE	SCALE	N.T.S.	DRAWING No.
AUGUST 1985	1:5000	94D/2E	PT 004

PETEKA CLAIM #1

PETEKA CLAIM #2



KEY MAP



SYMBOLS

- Geological boundary (defined, assumed)
- Bedding (vertical, inclined)
- Jointing (vertical, inclined)
- Shearing (vertical, inclined)
- Veins
- Gossan (point, area)
- X Small outcrop
- Outcrop area
- X Float

carb	carbonatization
sil	silicification
chl	chlorite
ser	sercitization
epid	epidote
hem	hematization
py	pyrite
po	pyrrhotite
cpy	chalcopyrite
as	arsenic
gal	galena
hem	hematite
mt	magnetite
mal	malachite

LEGEND

Tertiary

7 Katsberg Intrusions

Felsic Intrusions

- b) Quartz diorite
- c) diorite
- e) granite
- m) medium grained
- n) coarse grained
- o) fine grained
- r) quartz phenocrysts
- s) plagioclase phenocrysts

Lower to Lower Middle Jurassic

3 Hazelton Group

Clastic - metasediments

- a) argillite
- b) greywacke
- j) interflow sediments

2 Felsic to Intermediate Volcanics - undifferentiated

- a) flow
- b) tuff
- c) lapilli tuff
- d) breccia - agglomerate
- e) feldspar porphyry
- f) hornblende porphyry
- g) feldspar - hornblende porphyry
- h) amygdule
- j) andesite
- k) docite

1a Fine to medium grained andesite ranging in color from grey-green to purple. Locally up to 5-10% plagioclase phenocrysts

1ad Plagioclase is locally weathered to clay minerals. Abundant epidote alteration present in stringers 1-10 mm. wide and mafic minerals also commonly epidotized.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,424

METERS
100 0 100 200 300 400

Suncor Inc. Resources Group — COAL AND MINERALS DEPARTMENT

BEAR LAKE PROJECT

PETEKA CLAIMS 1 & 2

GEOLOGY

DATE	SCALE	N.T.S.	DRAWING No.
AUGUST 1985	1:5000	94D/2E	PT 005

PETEKA CLAIM #3

PETEKA CLAIM #4

LCP

GLACIER

snow

talus

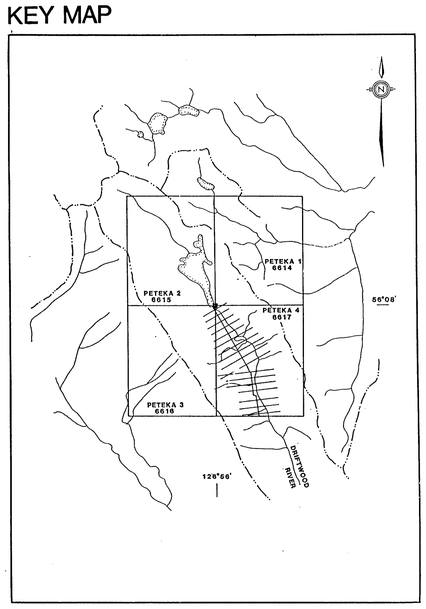
G

diabase

py

DRIFTWOOD RIVER

KEY MAP



SYMBOLS

——— ----	Geological boundary (defined, assumed)
	Bedding (vertical, inclined)
	Jointing (vertical, inclined)
	Shearing (vertical, inclined)
	Veins
	Gossan (point, area)
X	Small outcrop
	Outcrop area
	Float
carb	carbonatization
sil	silicification
chl	chlorite
ser	sercitization
epid	epidote
hem	hematization
py	pyrite
po	pyrrhotite
cpy	chalcopyrite
as	arsenic
gal	galena
hem	hematite
mt	magnetite
mal	malachite

LEGEND

Tertiary

7 Katsberg Intrusions

Felsic Intrusions

- b) Quartz diorite
- c) diorite
- e) granite
- m) medium grained
- n) coarse grained
- o) fine grained
- r) quartz phenocrysts
- s) plagioclase phenocrysts

Lower to Lower Middle Jurassic

Hazelton Group

3 Clastic - metasediments

- a) argillite
- b) greywacke
- j) interflow sediments

2 Felsic to Intermediate Volcanics - undifferentiated

- a) flow
- b) tuff
- c) lapilli tuff
- d) breccia - agglomerate
- e) feldspar porphyry
- f) hornblende porphyry
- g) feldspar - hornblende porphyry
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GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,424

METERS
100 0 100 200 300 400

Suncor Inc. Resources Group — COAL AND MINERALS DEPARTMENT

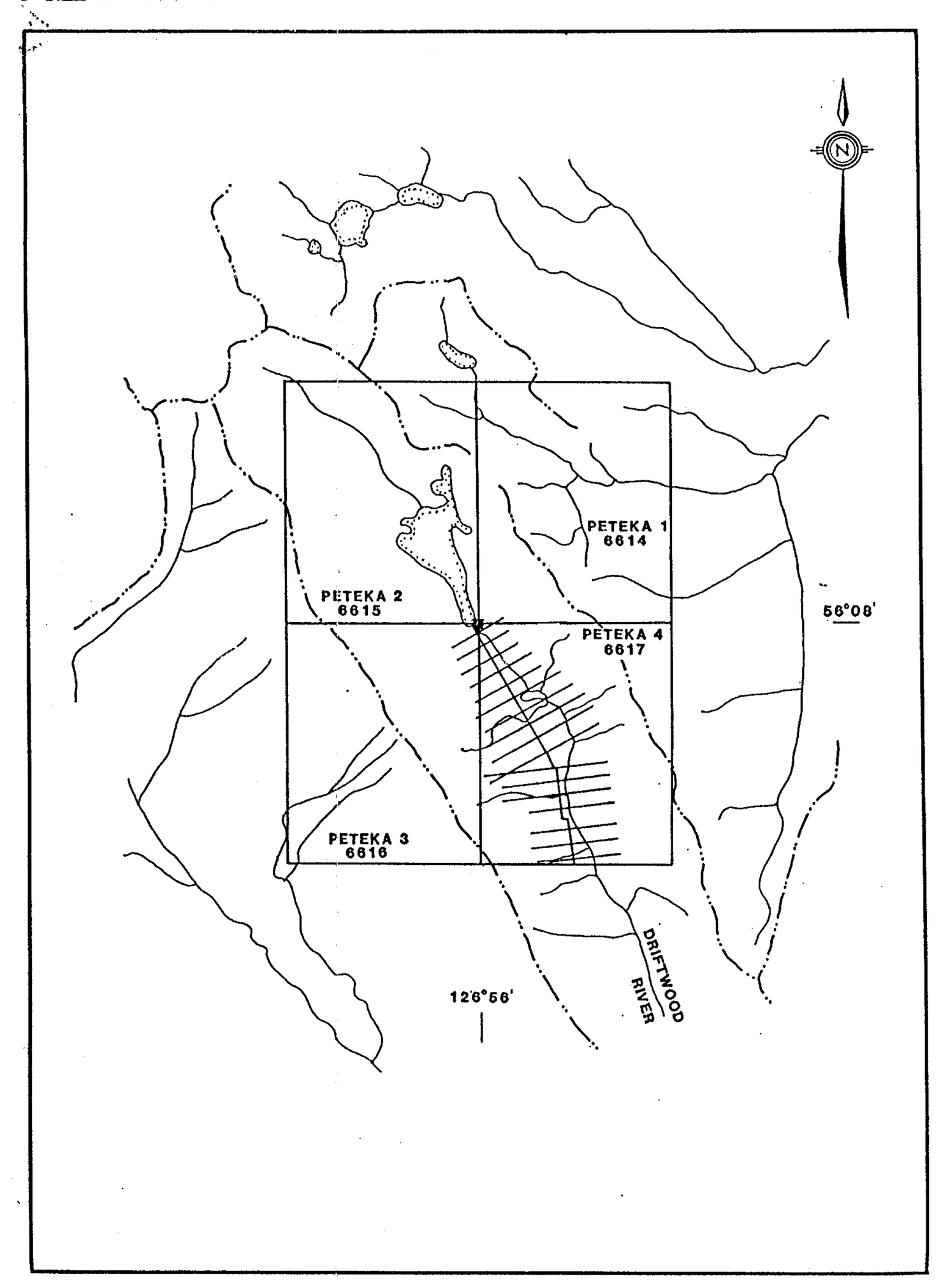
BEAR LAKE PROJECT

PETEKA CLAIMS 3 & 4

GEOLOGY

DATE	SCALE	N.T.S.	DRAWING No.
AUGUST 1985	1:5000	94D/2E	PT 006

KEY MAP



LEGEND

225 310 1204

1204 → Zn(ppm)

310 → Pb(ppm)

225 → Cu(ppm)

GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,424

METERS

100 0 100 200 300 400

Suncor inc. Resources Group

COAL AND MINERALS DEPARTMENT

BEAR LAKE PROJECT

PETEKA CLAIMS 3 & 4

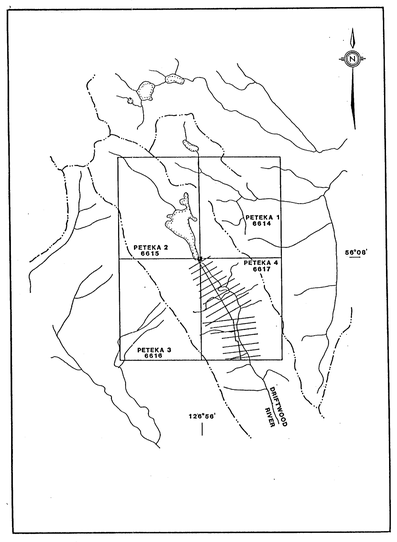
GEOCHEMICAL RESULTS
Cu,Pb,Zn

DATE	SCALE	N.T.S.	DRAWING No.
AUGUST 1985	1:5000	94D/2E	PT 007

PETEKA#3

PETEKA#4

KEY MAP



LEGEND

14 0.3 200 → As(ppm)

→ Ag(ppm)

→ Au(ppb)

Note: "–" sign indicates less than.
All As values≤ 100ppm As except where noted.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,424

METERS
100 0 100 200 300 400

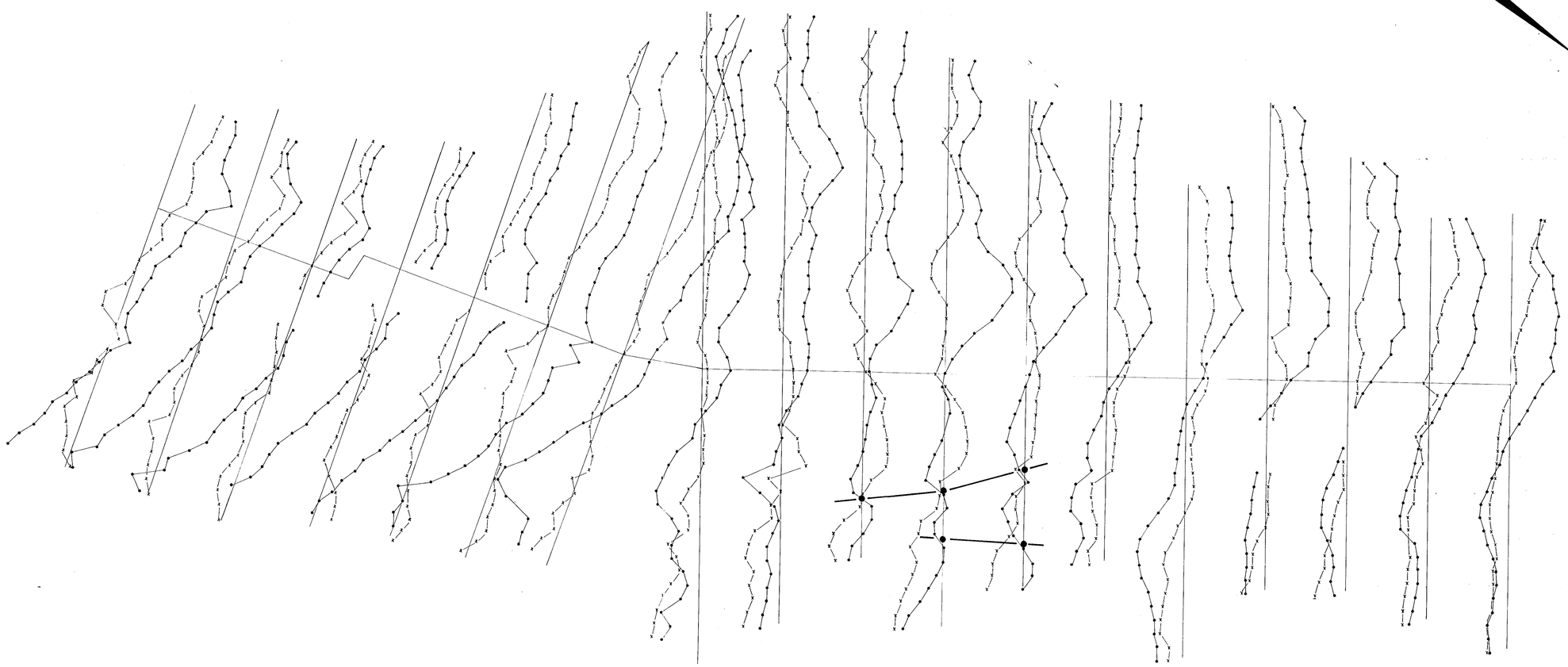
Suncor Inc. Resources Group — COAL AND MINERALS DEPARTMENT

BEAR LAKE PROJECT

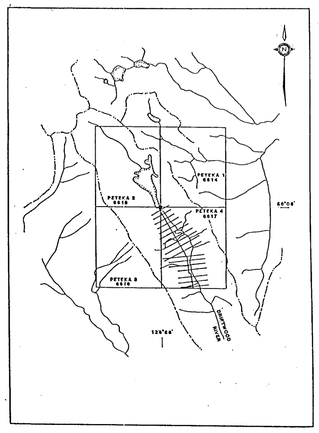
PETEKA CLAIMS 3 & 4

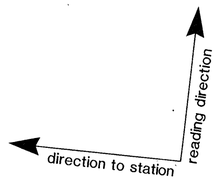
GEOCHEMICAL RESULTS
Au,Ag,As

DATE	SCALE	N.T.S.	DRAWING No.
AUGUST 1985	1:5000	94D/2E	PT 008



KEY MAP





LEGEND

- INPHASE
- QUADRATURE
- INTERPRETED CONDUCTOR AXIS
- INTERPRETED CONDUCTOR WIDTH

TRANSMITTER STATION: NLK Seattle, Washington - 24.8 kHz
INSTRUMENT: Geonics VLF EM-16
Direction to station : 155
Reading direction : 245
Operator : I. Simpson

METERS
100 0 100 200 300 400

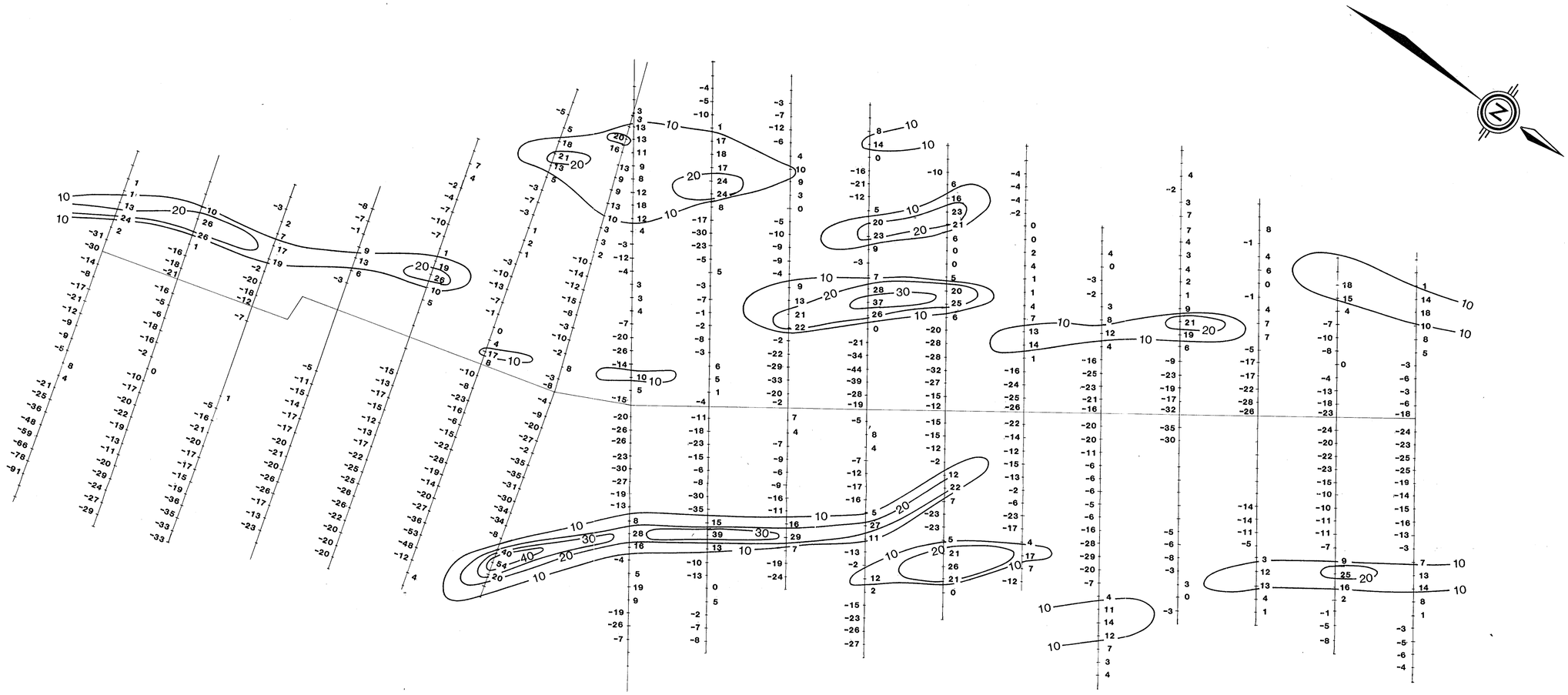
Suncor Inc Resources Group — COAL AND MINERALS DEPARTMENT

BEAR LAKE PROJECT

PETEKA CLAIMS

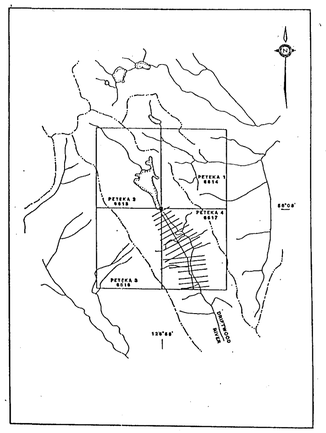
VLF SURVEY

DATE	SCALE	N.T.S.	DRAWING No.
DEC 85	1:5000	94D/2W	PT 009



L 25+50S L 24+00S L 22+50S L 21+00S L 19+50S L 18+00S L 16+50S L 15+00S L 13+50S L 12+00S L 10+50S L 9+00S L 7+50S L 6+00S L 4+50S L 3+00S L 1+50S L 0+00

KEY MAP



LEGEND

-20 Negative Fraser Filter Value

7 Positive Fraser Filter Value

—20— Contoured Value of Filter

Contour Value 10 Per Cent

METERS

100 0 100 200 300 400

Suncor Inc Resources Group — COAL AND MINERALS DEPARTMENT

BEAR LAKE PROJECT

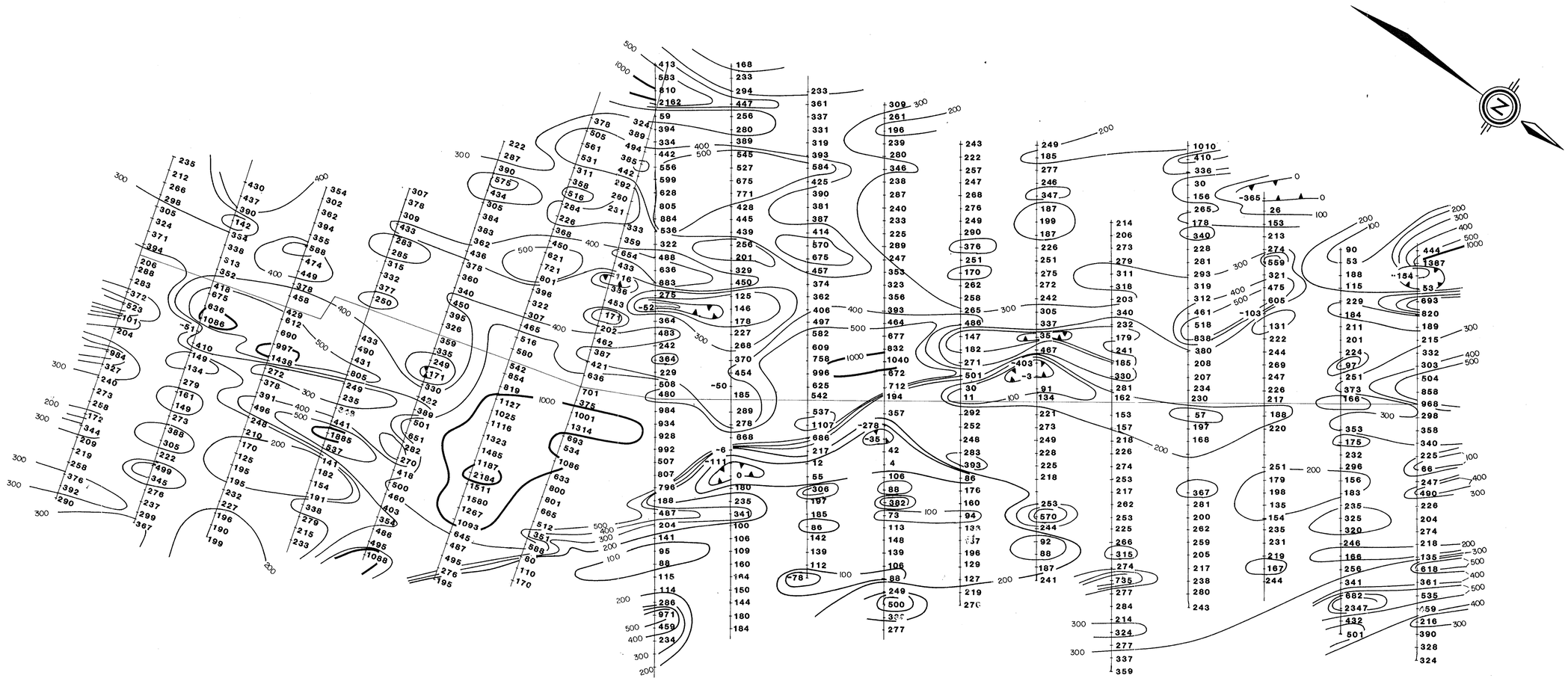
PETEKA CLAIMS

PETEKA FRASER FILTER

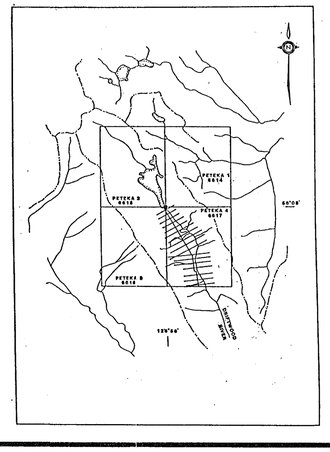
VLF-EM 16 SURVEY

DATE	SCALE	N.T.S.	DRAWING No.
DEC 85	1:5000	94D/2W	PT 010

14,424



KEY MAP



LEGEND

Operator : I. Simpson
Instrument : Scintrex MP-2
Base Value : 58,000 Gammas
Accuracy: ±2 Gammas
Contour Interval : 100 Gammas

METERS
100 0 100 200 300 400

Suncor Inc. Resources Group — COAL AND MINERALS DEPARTMENT

BEAR LAKE PROJECT

PETEKA CLAIMS

MAGNETOMETER SURVEY

DATE	SCALE	N.T.S.	DRAWING No.
27/08/85	1:5000	94D/2W	PT 011

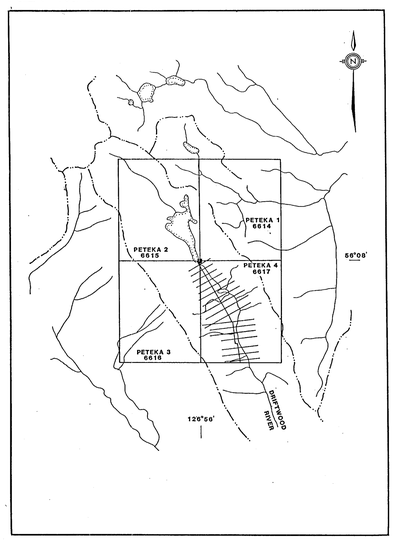
GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,424

PETEKA#3

PETEKA#4

KEY MAP



LEGEND

14 0.3 200
As(ppm)
Ag(ppm)
Au(ppb)

Note: "–" sign indicates less than.
All As values≤ 100ppm As except where noted.
Silver contours in ppm

GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,424

METERS
100 0 100 200 300 400

Suncor Inc. Resources Group — COAL AND MINERALS DEPARTMENT

BEAR LAKE PROJECT

PETEKA CLAIMS 3 & 4

GEOCHEMICAL RESULTS
Au,Ag,As
SILVER CONTOURS

DATE	SCALE	N.T.S.	DRAWING No.
AUGUST 1985	1:5000	94D/2E	PT 013

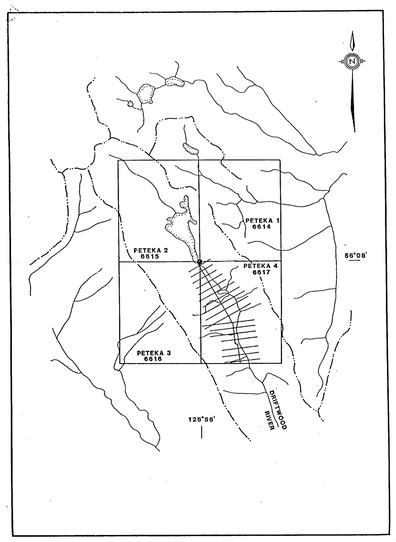
PETEKA#3

PETEKA#4

LCP

Driftwood River

KEY MAP



LEGEND

225 Cu(ppm)

310 Pb(ppm)

1204 Zn(ppm)

GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,424

METERS
100 0 100 200 300 400

Suncor Inc. Resources Group — COAL AND MINERALS DEPARTMENT

BEAR LAKE PROJECT

PETEKA CLAIMS 3 & 4

GEOCHEMICAL RESULTS
Cu,Pb,Zn
LEAD CONTOURS IN PPM

DATE	SCALE	N.T.S.	DRAWING No.
AUGUST 1985	1:5000	94D/2E	PT 015

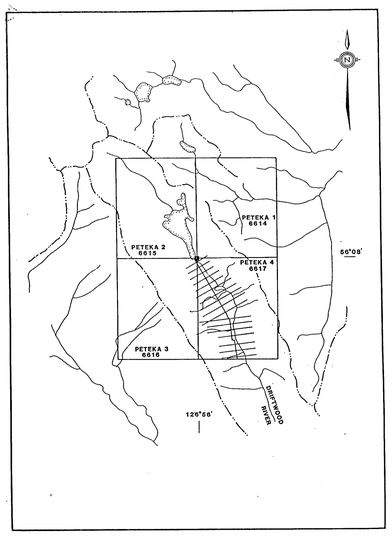
PETEKA#3

PETEKA#4

LCP

Driftwood River

KEY MAP



LEGEND

225 → Cu(ppm)

310 → Pb(ppm)

1204 → Zn(ppm)

GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,424

METERS
100 0 100 200 300 400

Suncor Inc. Resources Group — COAL AND MINERALS DEPARTMENT

BEAR LAKE PROJECT

PETEKA CLAIMS 3 & 4

GEOCHEMICAL RESULTS
Cu,Pb,Zn
ZINC CONTOURS IN PPM

DATE	SCALE	N.T.S.	DRAWING No.
AUGUST 1985	1:5000	94D/2E	PT 016

PETEKA#3

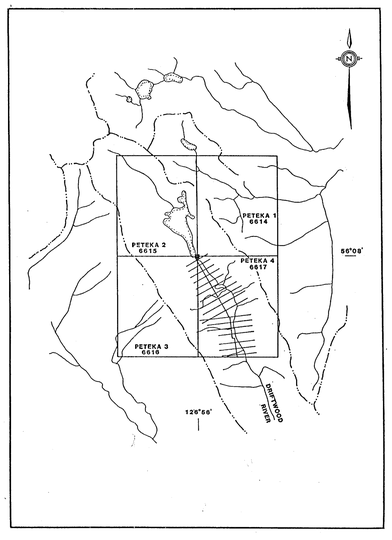
PETEKA#4

LCP

Driftwood River

NO SAMPLE

KEY MAP



GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,424

METERS
100 0 100 200 300 400

Suncor inc. Resources Group — COAL AND MINERALS DEPARTMENT

BEAR LAKE PROJECT

PETEKA CLAIMS 3 & 4

SOIL SAMPLE LOCATIONS

DATE	SCALE	N.T.S.	DRAWING No.
AUGUST 1985	1:5000	94D/2E	PT 017

PETEKA#1

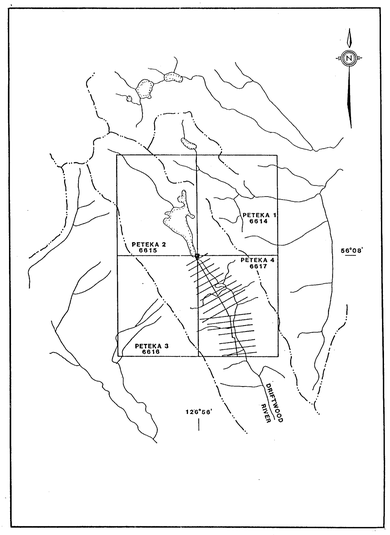
PETEKA#2

33,46,177
78,42,183
66,37,148
71,39,194
1010,36,156
5260,68,364
180,38,184
2950,155,106
100,34,171
167,38,162
112,38,132
97,46,176
110,44,144
188,44,161
62,51,136
128,55,176
1670,4920,1280
24,18,120
42,22,124
176,67 ,200
26,12,26
50,26,94
26,11,97
31,15,54
139,58,168
28,21,163
310,48,210
158,44,211
12,14,80
244,51,208
3260,207,118
141,93,160
122,104,178
50,24,109
120,16,58
30,21,94
66,19,118
82,37,230
95,19,96
62,33,174
18,18,97
90,34,117
93,53,146
17,23,151
162,110,251

19,24,40
19,30,85
21,34,91
27,41,106
19,34,74
16,27,62
22,26,70
12,31,71
24,20,66
10, 16,36
8,10,28
24,48,70
10,10,30
26,38,72
9,10,44
7,8,36
18,10,50
17,17,68
60,39,104
8,11,61
102,27,113
39,27,138
63,37,110
10,5,22
148,30,103
6,9,34
80,20,84
104,42,114
86,16,78
15,17,54
176,44,94
12,18,59
330,19,60
20,14,104
185,20,67
255,134,54
121,61,41
184,64,50
124,34,70
170,40,70
105,25,71
53,22,165
155,93,161
54,47 157
157,35,147
56,14,87
248,24,115
42,16,63
39,15,56
52,12,54

LCP

KEY MAP



LEGEND

310 48 208
Zn(ppm)
Pb(ppm)
Cu(ppm)

METERS
100 50 100 200 300 400

GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,424

Suncor Inc. Resources Group — COAL AND MINERALS DEPARTMENT

BEAR LAKE PROJECT

PETEKA CLAIMS 1 & 2

SOIL GEOCHEMICAL RESULTS

Cu,Pb,Zn

DATE	SCALE	N.T.S.	DRAWING No.
AUGUST 1985	1:5000	94D/2E	PT 018

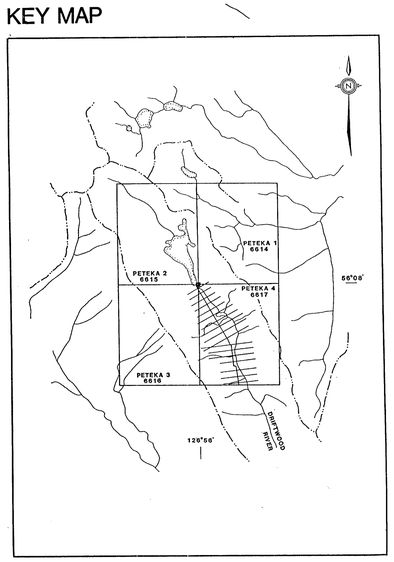
PETEKA# 1

PETEKA# 2

-5, 0.1
-5, 1.0
-5, 0.7
-5, 0.4
137, 2.1
43, 1.5
-5, 1.5
3428, 6.2 (0.067 Au oz/ton)
43, 0.9
26, 0.9
31, 0.7
26, 0.3
36, 0.5
12, 0.4
17, 0.5
36, -0.1
411, 4.2
-5, 0.1
-5, 0.1
31, 0.9
-5, 0.2
-5, 0.7
-5, 0.8
-5, 0.3
137, 0.4
102, 0.3
50, 0.4
43, 0.3
-5, -0.1
12, 0.4
43, 0.6
26, 0.2
7, -0.1
17, 0.4
-5, 0.6
-5, 0.4
12, 0.3
-5, 0.3
14, -0.1
12, 0.2
-5, 0.2
36, 0.7
12, 0.4
55, 0.6
497, 3.3, 200
-5, 1.1
-5, 1.1
12, 0.6
-5, 0.2
50, 0.2
12, 0.2
19, -0.1
14, 0.7
7, 0.2
-5, 0.2
-5, 0.1
-5, 0.1
7, -0.1
-5, 0.3
-5, 0.1
12, -0.1
-5, -0.1
9, 0.1
9, 0.1
14, -0.1
-5, 0.5
-5, 0.1
-5, 0.1
-5, 0.2
21, 0.3
-5, 0.3
-10, 0.7
19, 0.4
-5, 0.6
-5, 0.6
21, 0.7
582, 0.5
172, 0.4
9, 0.3
79, 0.3
-5, 0.4
58, 0.4
72, 0.6
-5, 0.6
-5, 0.5
-5, 0.6
12, 0.6
-5, 0.5
14, 0.9
-5, 0.6
12, 0.7
-5, 0.5
-5, 0.6
7, 0.4

LCP

KEY MAP



LEGEND

132 — Au(ppb)
0.5 — Ag(ppm)
200 — As(ppm)

Note : All As results ≤ 100ppm except where noted

GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,424

METERS
100 0 100 200 300 400

Suncor inc. Resources Group — COAL AND MINERALS DEPARTMENT

BEAR LAKE PROJECT

PETEKA CLAIMS 1 & 2

SOIL GEOCHEMICAL RESULTS

Au,Ag,As

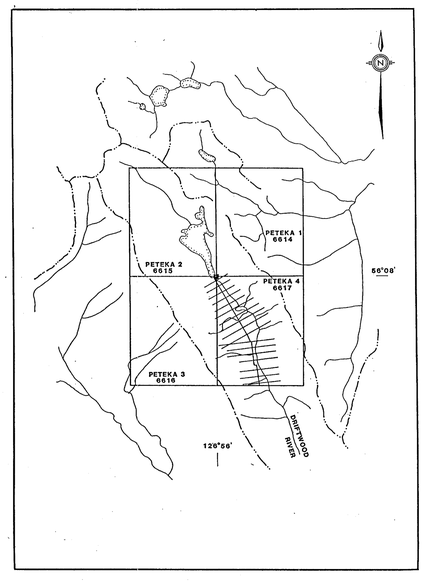
DATE	SCALE	N.T.S.	DRAWING No.
AUGUST 1985	1:5000	94D/2E	PT 019

PETEKA#3

PETEKA#4

LCP

KEY MAP



LEGEND

14 — Au(ppb)

0.3 — Ag(ppm)

200 — As(ppm)

Note: "–" sign indicates less than.
All As values≤ 100ppm As except where noted.
Gold contours in ppb.

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METERS
100 0 100 200 300 400

Suncor Inc. Resources Group — COAL AND MINERALS DEPARTMENT

BEAR LAKE PROJECT

PETEKA CLAIMS 3 & 4

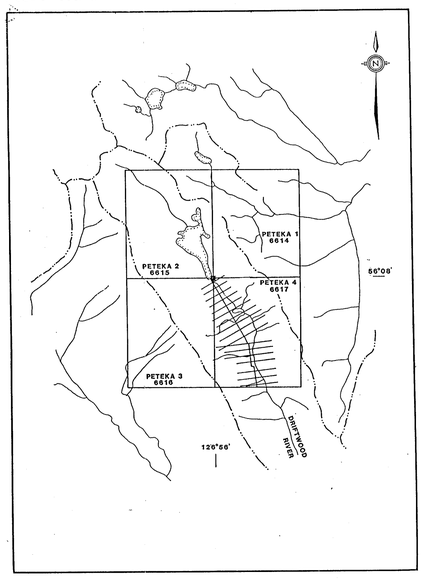
GEOCHEMICAL RESULTS
Au,Ag,As
GOLD CONTOURS

DATE	SCALE	N.T.S.	DRAWING No.
AUGUST 1985	1:5000	94D/2E	PT 012

PETEKA #3

PETEKA #4

KEY MAP



GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,424

Suncor Inc. Resources Group — COAL AND MINERALS DEPARTMENT

BEAR LAKE PROJECT

PETEKA CLAIMS 3 & 4

GEOCHEMICAL RESULTS
Cu,Pb,Zn
COPPER CONTOURS IN PPM

DATE	SCALE	N.T.S.	DRAWING No.
AUGUST 1985	1:5000	94D/2E	PT 014