

GEOLOGICAL GEOCHEMICAL AND GEOPHYSICAL REPORT

on the

EAGLE 1 GROUP  
(EAGLE 5, EAGLE 6, FOX 3, FOX 10, FOX 11  
FOX 12 AND FOX 13 MINERAL CLAIMS)

LIARD MINING DIVISION  
N.T.S. 104I/6E and 104I/11E  
LAT. 58°30'N; LONG. 129°10'W

for

ESSO RESOURCES CANADA LIMITED  
600 - 1281 WEST GEORGIA ST.  
VANCOUVER, B.C.  
V6E 3J7

by

C. C. EVERETT

DECEMBER 1, 1982

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**10,816**

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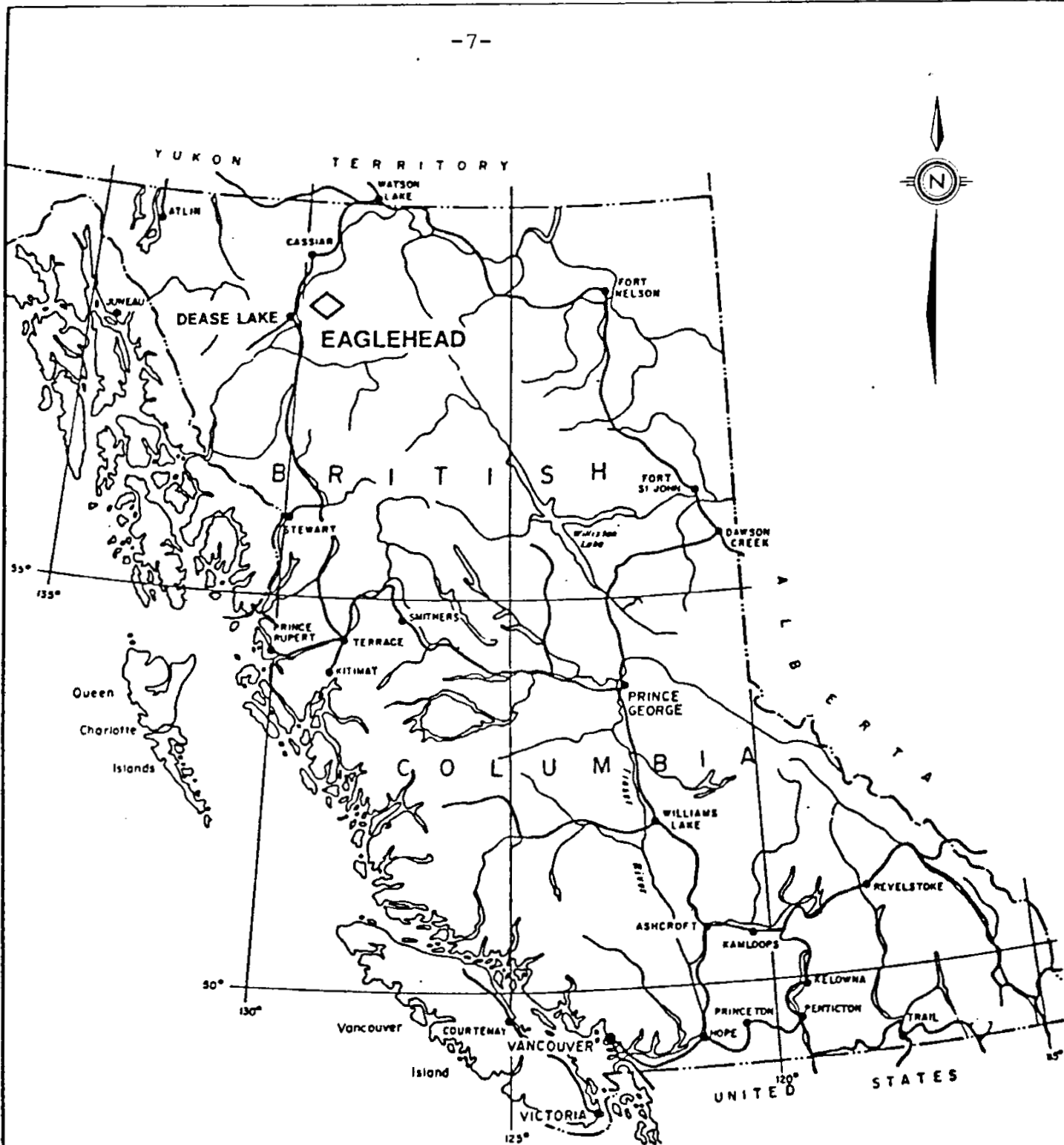
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Summary

The "Eaglehead" porphyry copper-molybdenum prospect is located approximately 48 km east of Dease Lake in northern B.C. Copper mineralization has been identified along the southwestern contact of the Eaglehead batholith for 10 kilometres. Exploration completed by Esso Resources in 1982 focused on the southeastern extension of the showing. This report documents geological mapping, soil geochemistry and induced polarization surveying of the Far East Grid. All exploration was completed in the Eagle-1 Group mineral claims.



**ESSO MINERALS CANADA**

**EAGLEHEAD**

PROPERTY LOCATION MAP

0 100 200 MILES  
0 100 200 400 KILOMETRES

FIGURE I

## 1.0 INTRODUCTION

### 1.1 Location And Access

The Eaglehead property is located in the Liard Mining Division, approximately 48 km east of Dease Lake in northern B.C., figure #1. The claims are located on NTS map sheet 104I/6E and 11E at north latitude  $58^{\circ}30'N$  and west longitude  $129^{\circ}10'W$ .

Access to the property is by fixed wing float plane to the southeast side of Eaglehead Lake, thence by helicopter or foot trail 9 km to the southeast.

The claims occupy a northwesterly trending drift filled valley flanked by northwest-southeast trending ridges. Ridges, with elevations greater than 1800 metres, are typically scalloped by cirques to the northeast and rounded and gently sloping to the south. The valley floor is extensively drift covered, characterized by kames, kettle holes and eskers.

Vegetation is predominantly "bunch grass" and "buck brush." A fringe of scrub alpine spruce and balsam occurs on lower ridge slopes. The upper slopes are covered with bunch grass and numerous talus fans.



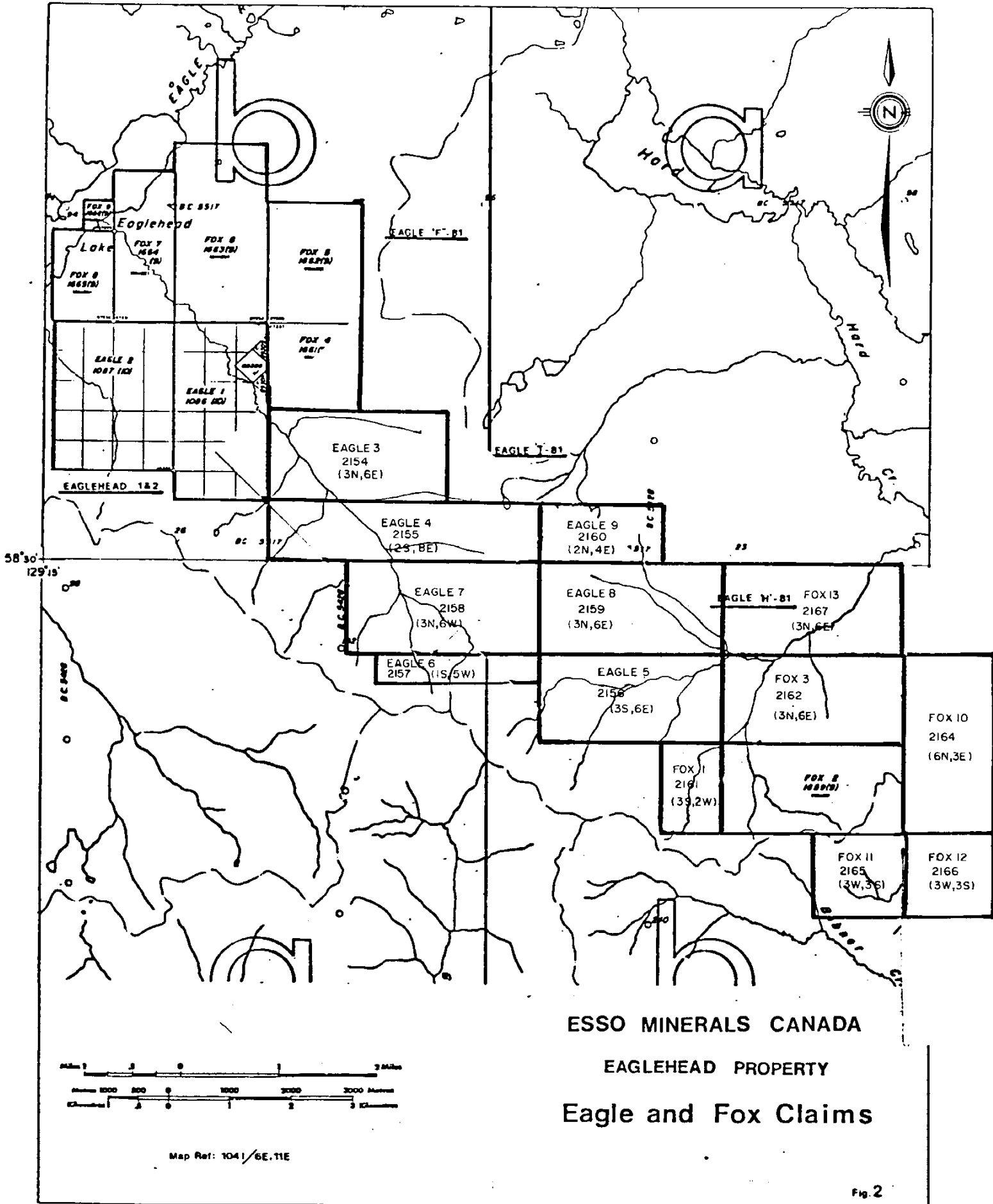
1.2 Property

The property consists of 22 mineral claims aggregating 291 contiguous units. Locations of the claims are shown on figure #2. Table #1 is a land record for the entire property. Table #2 lists the Eagle-1 group and itemizes claims worked on in 1982.

TABLE # 1

LAND RECORD - EAGLEHEAD PROPERTY

<u>Claim Name</u>			<u>No. Units</u>
<u>Record No.</u>			<u>Date of Record</u>
Eagle 1	18	2153	Oct 22/81
Eagle 2	20	1087	Oct 22/79
Eagle 3	18	2154	Oct 22/81
Eagle 4	16	2155	Oct 22/81
Eagle 5	18	2156	Oct 22/81
Eagle 6	5	2157	Oct 22/81
Eagle 7	18	2158	Oct 22/81
Eagle 8	18	2159	Oct 22/81
Eagle 9	8	2160	Oct 22/81
Fox 1	6	2161	Oct 22/81
Fox 2	18	1659	Sept 25/80
Fox 3	18	2162	Oct 22/81
Fox 4	9	2163	Oct 22/81
Fox 5	12	1662	Sept 25/80
Fox 6	18	1663	Sept 25/80
Fox 7	10	1664	Sept 25/80
Fox 8	6	1665	Sept 25/80
Fox 9	1	1666	Sept 25/80
Fox 10	18	2164	Oct 22/81
Fox 11	9	2165	Oct 22/81
Fox 12	9	2166	Oct 22/81
Fox 13	18	2167	Oct 22/81



ESSO MINERALS CANADA  
EAGLEHEAD PROPERTY  
Eagle and Fox Claims

Fig. 2

TABLE # 2

EAGLE 1 GROUP CLAIMS

<u>Claim Name</u>	<u>No. Units</u>	<u>Record No.</u>	<u>Date of Record</u>	<u>Work</u>
Eagle 5	18	2156	Oct 22/81	I.P., Soil
Eagle 6	5	2157	Oct 22/81	geochemistry and
Fox 3	18	2162	Oct 22/81	geological mapping
Fox 10	18	2164	Oct 22/81	completed on
Fox 11	9	2165	Oct 22/81	Eagle 5, Fox 3,
Fox 12	9	2166	Oct 22/81	Fox 10, Fox 11
Fox 13	18	2167	Oct 22/81	and Fox 13
	<u>95</u>			mineral claims

1.3 History of Property

Copper mineralization was located in granitic float near Eaglehead Lake in 1963, by Kennco Explorations Ltd. From 1963-1965 Kennco conducted geochemical, geophysical and geological surveys, following up the initial work with four short diamond drill holes. The claims were allowed to lapse and were restaked by Spartan Explorations Limited in 1970. Imperial Oil optioned the property in 1971.

From 1971-1976 Imperial Oil continued geological, geochemical and geophysical work. Thirty additional drill holes were completed. The property sat idle from 1977-1978.

In 1979, Nuspar Resources Limited (reorganized from Spartan Explorations in 1978), assumed operatorship of the property. Work resumed on the showing from 1979-1981 under the supervision of Pamicon Developments Ltd. of Vancouver, B.C. Exploration entailed geological, geochemical and geophysical surveying. Twenty-five additional drill holes were completed.

Esso Resources Canada Limited assumed control of the property in 1982. Field work concentrated on the Far East Grid, in the southeastern portion of the property.

#### 1.4 Regional Geology

The regional geology of the Cry Lake 104I map sheet was compiled in G.S.C. Open File Report #610 by H. Gabrielse in 1978. Subsequent work, mainly by Gabrielse, has furthered the understanding of the intrusive elements and structural style of the area. Map #1 is an updated compilation of the Open File #610 data.

The Eaglehead property lies along the southeast flank of a zoned, early to late Jurassic batholith, centering on Eaglehead Lake. The unit is elongate, from northwest to southeast and is sub-parallel to the main structural fabric of the area.

The batholith is bounded by the Kutcho fault to the northeast. The fault is characterized by strongly cataclastized, foliated and mylonitized rocks over widths of 1.5 - 3.0 km. Right lateral movement along the break appears to be in order of several tens of kilometers - the southwestern flank of the batholith is bounded by elements of the King Salmon Assemblage, comprising Cache Creek rocks overlain by Upper Triassic Kutcho and Stuhini formation volcanoclastics, the Sinwa limestone and sediments of the Inklin formation.

A high angle fault (Thibert Fault, Gabrielse 1982) marks the contact between the Cache Creek and Inklin rocks. The structure trends northwesterly of Dease Lake and is thought to originate from the Kutcho fault, somewhere near the Turnagain River. The sense of movement is right lateral with the southwest side being structurally higher.

Mineralized zones within the batholith are often sheared and mylonitized. The faults are steeply dipping and trend between 080 and 110°. They are typified by strong lineaments and a well developed foliation. Minor structures suggest strike-slip movement along these breaks. These structures may represent subsidiary splays of the Thibert fault.

Plutons of the Eaglehead batholith are confined to the region between the Kutcho and Thibert faults. West of Eaglehead Lake the batholithic rocks are medium to coarse grained hornblende diorites, hornblende quartz diorites, monzonites, and granodiorites. East of Eaglehead Lake the intrusive is a medium to coarse grained granodiorite characterized by coarse quartz eyes and a variable hornblende-biotite content. These rocks intrude Upper Triassic volcanic rocks (Kutcho and Stuhini formations). The contact appears sub-vertical, extreme brecciation and rafting of the volcanic occurs for 100-200 metres, decreasing inwards as grain size increases.

Mid-cretaceous and younger elements of the Cassiar batholith generally occur northeast of the Kutcho fault.

Gabrielse has reported a mid-Cretaceous medium to coarse grained, locally coarsely megacrystic quartz monzonite and granite between the Kutcho and Thibert faults. The spatial location of this stock and its similarity to the Jurassic intrusives suggests possible multi-phase intrusive activity ranging from early Jurassic to as late as mid-Cretaceous.

### 1.5 Details of Program

Field work completed on the Eagle-1 Group (June 22 - July 23) included linecutting, soil sampling, geological mapping and geophysical surveying. Table #3 is the exploration summary for this program.

TABLE # 3

#### EAGLE 1 GROUP - WORK SUMMARY

<u>(km)</u> <u>Linecutting</u>	<u>Soil (No.)</u> <u>Geochemistry</u>	<u>Geological</u> <u>Mapping (km<sup>2</sup>)</u>	<u>Induced Polarization</u> <u>Survey (km)</u>
44.4 km picket line	245 soils 34 silts	18 km <sup>2</sup>	34 km

Geological mapping was done at a 1:5000 scale. Soil samples were taken at the B horizon with hand tools. Samples were taken at 100 metre intervals. Soils and silts were sent to Min-En Labs in North Vancouver, B.C. for analysis. The

Induced Polarization survey was completed by Phoenix Geophysics Limited of Vancouver, B.C. for Esso Resources Canada Limited. Pseudosections and descriptions of geophysical and geochemical methods are listed in the Appendix.

## 2.0 FAR EAST GRID

### 2.1 Geology and Mineralization

#### Introduction

Geology of the Far East Grid is shown on Maps #2 and 3. Figure #3 is a location map for the grid, illustrating lines completed in the I.P. survey and the extent of geochemical surveying.

#### Geology

The Far East Zone is located along the southeastern edge of the Eaglehead batholith, approximately 14 kilometres southeast of Eaglehead Lake. The grid is situated in a flat glacial valley. Outcrop exposure is poor. Differentiation of geological units was done by mapping frost heaves and scattered outcrop in stream beds. Most of the grid is strewn with glacial debris and flat marshy areas.

The Eaglehead batholith, elongated in a northwest-southwest direction, lies northeast of the Upper Triassic Kutcho, Sinwa and Stuhini Formations. The contact between these units is not fault bounded. Fragments and blocks of basic flows and augite porphyry flows occur throughout the hornblende granodiorite phase of the batholith; map #3. Brecciation increases towards the southwest. The attitude of the intrusive-volcanic contact is not known. The contact shown on map #3 is approximate as fine fingers and pockets of micro-granodiorite occur within the basic flow outcrops.

Volcanics identified within the Far East Zone are dark green aphanitic andesite-basaltic flows and augite porphyry flows. Mapping by the G.S.C. in 1978 and 1982 place these units as equivalent to Kutcho formation strata, figure #3. The volcanic characteristics noted in the field suggests these units are Stuhini Formation rocks, stratigraphically younger than the Kutcho sequence.

The Eaglehead batholith consists of 3 main differentiated phases: 1. (HGD) hornblende granodiorite border phase; 2. (BGD) biotite granodiorite intermediate phase; and 3. (GP) a granodiorite core phase. A separate alteration zone (GPGZ) granodiorite porphyry gradational zone has been identified within the core phase. Crowded feldspar porphyry, hornblende porphyry, Fe-rich sub-volcanic, diabase and aplite dykes occur within the intrusive. These units are rarely found in the field and are best seen in drill core.



Hornblende granodiorite occurs along the margin of the Eaglehead porphyry. It has been traced from the Far East Zone 6 km northwest to the Camp Zone, fig. #3. An extension of this unit to Eaglehead Lake is conjectural as it has been identified only in float. The hornblende granodiorite typically appears dark to apple green and fine to medium grained. Component minerals are hornblende (5-20%), quartz (20%), plagioclase (40-60%), orthoclase (tr-5%), biotite (tr-5%), and magnetite (tr-5%). Hornblende is easily identified by its larger size and dark green colour. Intensely chloritic sections may mask the hornblende content making it appear absent. Hornblende content decreases and biotite content increases towards the biotite granodiorite phase. Angular volcanic fragments and blocks comprise 1-10% of this unit. It is often difficult to differentiate volcanic from intrusive where the granodiorite has a fine grained texture.

The hornblende granodiorite is pervasively altered to chlorite and minor epidote-sericite. The alteration appears inherent to the Eaglehead batholith margin and not directly attributed to copper bearing fracture zones within the biotite granodiorite. Much of this chlorite could be assimilated along the intrusive-volcanic contact zone.

Biotite granodiorite occurs as a narrow 200-600 metre band, separating the hornblende granodiorite and granodiorite porphyry phases. It is identified by its natural composition and by specific alteration characteristics partial to this

zone. The granodiorite consists of biotite books (plus minor hornblende - 10%), quartz (20%:5% occurring as 2-4 mm quartz eyes), plagioclase (50-60%) and orthoclase (10%). Hornblende occurs only as trace phenocrysts. The unit is invariably medium grained. Volcanic fragments were not identified.

Prominent copper zones on the Eaglehead property are spatially located within the biotite granodiorite phase. Groundmass alteration assemblages vary from chlorite sericite-epidote-carbonate-quartz to sericite chlorite-epidote-K-feldspar-carbonate-quartz to K-spar-sericite-quartz biotite and carbonate. K-feldspar, epidote, chlorite and hematite also occurs as narrow (1-20 mm) selvage-type alteration. Fracture controlled alteration, particularly K-feldspar, shows preference to the lower intensity chlorite epidote-sericite zones. Boundaries of specific alteration types could not be identified on the Far East Zone.

The granodiorite porphyry phase underlies most of the Far East Grid. The unit is coarse grained, containing trace 1-4 cm coarse orthoclase phenocrysts floating in a quartz-plagioclase- orthoclase matrix. Component minerals of the granodiorite porphyry are biotite (10%), hornblende (tr), quartz (20%-4 to 8% as coarse quartz eyes), orthoclase (10-20%) and plagioclase (30-50%). This phase is essentially fresh with minor traces of chlorite dusting the biotite books.

The granodiorite porphyry gradational zone shown on geology maps #2 and #3 represents the altered equivalent of the

granodiorite porphyry. It is not a separate intrusive phase. This zone parallels the biotite granodiorite from the East Zone to the Far East Zone. Hydrothermal alteration was noted for approximately 200 metres into the coarser grained porphyry, dissipating to the northeast. Groundmass alteration assemblages include variable low intensity sericite-chlorite-epidote quartz-carbonate to sericite-Kspar-carbonate alteration. Traces of epidote, chlorite and K-feldspar were noted along narrow fractures. Fracture controlled alteration is considered weak, occurring only as trace 1-10 mm selvages. Distinct fracture trends were not identified.

Contacts between phases of the Eaglehead batholith are gradational. There are progressive increases or decreases in grain size, biotite or hornblende content and intensity of alteration which characterize these units. Phase differentiation is made by "eye" only. There is no apparent inter-intrusive brecciation between granodiorite types.

### Mineralization

All notable copper mineralization in the Far East Zone is restricted to outcrops in the north-south trending stream bed along lines 88+00mE to 96+00mE. A narrow 5-10 metre mylonitized, sericitized shear, trending 095<sup>0</sup>, was found at grid locations 94+00mE : 14+40mN. Estimated copper grade within this section is .5-1.0%. Chalcopyrite, malachite and

traces of neodesite and pyrite occur throughout the showing. This mineralization shows no association to quartz veining or with any regular fracture pattern. The zone appears to be a narrow shear, within the hornblende granodiorite phase, rich in Cu and low in Fe sulphides.

Traces of chalcopyrite and pyrite occur throughout the biotite granodiorite phase. No zones of noteworthy copper mineralization were discovered. Where pyrite content increased from tr - 3%, the granodiorite appeared weakly foliated with the biotites crudely aligned. A weak spotty resistivity anomaly, as described in section 2.3, is coincident with the biotite granodiorite phase, from East Zone to Far East Zone.

## 2.2 Geochemistry

Silt geochemical results are included on geology maps #2 and #3. Soil geochemistry is located on maps #4 and #5. All samples were analyzed at Chemex Laboratories in North Vancouver for copper and molybdenum. Only soils with sample numbers are being applied as assessment for the Eagle 1 Group. The remaining soil geochemical results were obtained from a 1981 reconnaissance flag-line soil survey. They are plotted to illustrate the crude alignment of anomalous 1981 and 1982 soils with the biotite granodiorite intrusive phase.

Streams draining the biotite granodiorite were anomalous in

copper and molybdenum; 210-2450 ppm Cu and 8-32 ppm Mo. The streams drain an extensively glacial filled valley. Outcrop and frost heave occurrences are limited. Sources of the anomalous silt geochem were not discovered.

A few spotty soils gave anomalous Cu and Mo responses; 100 ppm Cu and 10 ppm Mo. Anomalous soil results are underlined on maps #4 and #5. The erratic nature of the soil geochem is attributed to the poor soil cover and extensive marshes which are coincident with a major portion of the biotite granodiorite intrusive phase. Possibly anomalous induced polarization anomalies follow this rough geochemical trend, suggesting potential for copper-molybdenum mineralization at depth.

## 2.3 Summary and Interpretation of Geophysical Surveys

### Introduction

Phoenix Geophysics has carried out a frequency domain IP survey on behalf of Esso Minerals Canada over the south-eastern portion of the Eagle grid (Figure #3). The purpose of the survey was to locate the sources of soil geochemical anomalies high in copper and molybdenum.

The system used was manufactured by Phoenix Geophysics. The measurements were made at two frequencies - .25 and 4 Hz. A dipole-dipole array was used with a minimum separation 'x' of 50 metres (Figure 2, Appendix B). Measurements were made for 4 multiples of this separation (i.e. n=1,2,3,4).

### Results

The pseudo-sections and line by line analysis are presented in Appendix B. The interpreted anomalous trends are plotted on Map #6 (in map pocket). Four anomalous zones were delineated.

Zone A is located on lines 136+00E and 140+00E at about 15N. This zone is approximately on strike with a mineralized area intersected by diamond drill hole 55 on line 128+00E, where a six metre intersection of semi-massive copper sulphide mineralization was encountered.

Zone B extends from line 92+00mE to 98+00mE and is centred at about 14+00N. Frequency effects are in a range of 2.5 to 3 times background. Resistivities are generally lower than adjacent values. The source of this response is shallow and appears to represent a zone of low sulphide mineralization.

Zone C extends from 92+00mE to 104+00mE at about 17+40N. It is open both to the east and the west. West of 92+00mE the feature has been outlined in an earlier survey by Peter Walcott. Strongest responses are found between lines 94+00mE and 96+00mE and indicate a shallow to intermediate depth

source. Here, frequency effect data is far more diagnostic than the resistivity data.

Zone D is centred at about 27+00N between lines 104+00mE and 98+00mE. Frequency effects are up to 2 times background and resistivities are slightly lower than in adjacent areas. Consequently, this is a marginal anomaly and could have been caused by either highly disseminated sulphides in the range of about 1-3% or rock alteration. However, the anomaly borders on an anomalous geochemical copper and molybdenum zone and is open to the east. In other IP zones on this property, localized strong IP anomalies within have been caused by high sulphide concentrations. This may happen here and thus further prospecting should be carried out east of the grid.

### Conclusions

Four anomalous IP zones have been delineated. Responses are generally weak. Zones A, B, and C appear to be extensions of sulphide-bearing horizons outlined in previous surveys. Zone D is a new, but very weak anomalous zone. It borders on an area anomalous in copper and molybdenum and extends further to the east.

In the area of an extensive anomalous Cu and Mo geochemical feature, located between lines 84+00mE and 92+00mE and north of 22+00N, no IP anomalies were detected. The source of this geochemical anomaly is not known.

Previous work has indicated that copper sulphides have generally been located in areas of localized strong IP anomalies. The following areas are recommended for follow-up as they are anomalies within anomalous backgrounds:

1. Zone A along line 140+00E between 1300N and 1400N.
2. Zone C on line 94+00E between 1650N and 1750N.
3. Zone B on line 94E between 1400N and 1500N.
4. Zone D on line 100+00E between 2750N and 2850N.

*Cal Everett*



STATEMENT OF QUALIFICATION

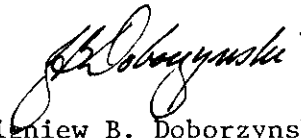
I am a Bachelor of Science graduate from the University of New Brunswick (May 1977) and have been employed as an exploration geologist within the mining industry for six years.

A handwritten signature in cursive script, appearing to read "Cal C. Everett". The signature is written in black ink and is somewhat stylized, with a large, circular flourish at the end.

CAL C. EVERETT

STATEMENT OF QUALIFICATION

I am a graduate of McGill University, with a Bachelor of Engineering Degree in Mining Engineering and Applied Geophysics and a Master of Science Degree in Applied Geophysics. I have been employed as an exploration geophysicist with Esso Minerals Canada for the last eight years.



Zbigniew B. Doborzynski.

SUMMARY OF COSTS

COST ESTIMATE - EAGLE 1 GROUP

<u>TYPE OF WORK</u>	<u>MAN DAYS</u>	<u>COST/MAN DAY</u>	<u>COST</u>	<u>TOTAL</u>
Geology	11	150.00	1650.00	
	11	75.00	<u>825.00</u>	\$ 2475.00
Geochemistry	1	75.00	75.00	
	12	55.00	660.00	
	13	65.00	<u>845.00</u>	1580.00
Linecutting	1	150.00	150.00	
	3	75.00	225.00	
	9	65.00	585.00	
	9	55.00	<u>495.00</u>	1455.00
Contracted Linecutting				
39.2 line kilometres @ 200.00 per km.				7840.00
Geophysics (I.P. Survey)				
34 line kilometres @ 760.00 per km.				25840.00
Contracted Linecutting				
39.2 line kilometres @ 200.00 per km.				7840.00
Mobilization-Demobilization Costs				
Induced Polarization Crew			628.00	
Linecutters			419.00	
Esso Resources Field Personnel			<u>838.00</u>	1885.00
Report Preparation				
Writing 5 days @ 150.00/day			750.00	
Drafting 2 days @ 150.00/day			300.00	
Map Reproduction			<u>200.00</u>	1250.00

Geochemical Analytical Costs

<u>Sample Type</u>	<u>Number</u>	
245 soils (Avg. \$3.33 unit)		816.00
34 silt (Avg. \$3.33 unit)		<u>113.00</u>
		929.00
Geochemical Freight Charge		419.00
Room and Accommodation: June 20-July 27/1982 273 man days @ 30.00/day		8190.00
Cook: 28 man days @ \$95.00/day		2660.00
Transportation and Air Support		
Helicopter (206B Jetranger)		
- 36.2 hours @ 375.00 hour	13575.00	
Fixed Wing Support		
- 6 Otter trips @ \$735.00/trip	<u>4410.00</u>	
		17985.00
Fuel Costs - Helicopter		
- 36.2 hours x 22 gals/hr x \$3.30 gal		2628.00
Materials and Supplies		<u>400.00</u>
	TOTAL	\$75,536.00

EAGLE 1 GROUP - COST DISTRIBUTION

Geology	\$ 2470.00
Geochemistry	1580.00
Geophysics	25840.00
Linecutting	9295.00
Analyses	929.00
Helicopter Support	13575.00
Fixed Wing Support	4410.00
Mob-Demob	1885.00
Freight Charge	419.00
Room and Board	8190.00
Cook	2660.00
Supplies	400.00
<u>Fuel</u>	<u>2628.00</u>
TOTAL	\$75,536.00
WORK APPLIED	<u>\$74,900.00</u>

LIST OF PERSONNEL

Calvin Everett (Project Geologist)  
110 - 269 West 4th St.  
Vancouver, B.C.

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Box 68  
Watson Lake, Yukon Y0A 1C0

## APPENDIX A

### GEOCHEMICAL SAMPLING TECHNIQUES

Soil samples were taken at the B-horizon with hand tools. Soils and silts were stored in brown gusset bags, dried and shipped to Chemex Laboratories in North Vancouver for geochemical analysis. Each sample was oven dried, sieved to obtain the -80 mesh fraction and then subjected to nitric perchloric acid digestion. Measurement of trace element concentrations was done by atomic absorption analysis. Samples were analyzed for copper and molybdenum.

Pulps for soils and silts are stored at the Esso Minerals Canada office in Vancouver, B.C.

## APPENDIX B

### Geophysical Methods and Interpretation of Results

#### Purpose

A frequency domain IP survey has been carried out on the Eagle East grid (Figure 1) to delineate the source(s) of geochemical copper and molybdenum anomalies.

#### Equipment and Survey Procedure

The survey was carried out by a contract crew provided by Phoenix Geophysics Limited. The equipment consisting of a frequency domain IP receiver, transmitter and motor generator, was also manufactured by Phoenix Geophysics.

The transmitter (IPT 1) was powered by a 1 KVA; 400 hz motor generator (MG-1A). Current was introduced into the ground by means of two steel electrodes identified as C<sub>1</sub> and C<sub>2</sub>. The operating frequencies used were 0.25 and 4 hz.

The receiver (IPV-1) is an extremely stable and sensitive potentiometer, tuned to the preselected transmitter frequencies and measures the voltages across potential electrodes P<sub>1</sub> and P<sub>2</sub>.

The electrode layout used was the "dipole-dipole" array. The separation 'x' was 50 m; measurements were taken for 4 multiples of 'x', n=1, 2, 3 & 4.

The quantities measured consisted of the current (I) flowing through electrodes C<sub>1</sub> and C<sub>2</sub> and the resulting voltages (V) set up in the ground and appearing across electrodes P<sub>1</sub> and P<sub>2</sub>. These were then used to calculate the following parameters.

1. Apparent Resistivity (pa) -  
calculated only for the low  
frequency measurement and  
defined as:

$$a = \frac{KV_{ohm-m}}{I}$$

where K is a constant whose value is determined by the type of array and its separation.



2. Percent Frequency effect (FE) - a measure of the amount of polarizable material present and obtained by calculating the percentage difference in resistivities at the two frequencies, 0.25 and 4.0 Hz:

$$\%FE = \frac{(pa_{.25} - pa_4)}{pa_4} \times 100$$

3. Metal Factor (MF) - designed to minimize variation of IP effect with resistivity of the host rock and defined as

$$MF = \frac{F.E. \times 1000}{pa_4}$$

These parameters are plotted on separate pseudo sections in Appendix C.

## Results

The contoured "pseudo-sections" are given at the end of this section. The anomaly map is found in the Map Pocket. A line by line discussion of the data follows:

### Line 120+00E - 50 m dipoles

The weak anomalous zone between 800N and 850m appears to reflect a deep polarizable source as it is detected only by  $n = 4$ . The zone located between 950N and 1000N is caused by a near surface weakly polarizable source.

### Line 128+00E - 50 m dipoles

The region south of 1550N is characterized by high frequency effects within which there are two anomalous zones.

The first is located between 950N and 1150N and the other is between 1300N and 1350N. The latter feature appears to be the deeper of the two because it has been detected only at the  $n = 4$  separation.

Line 136+00E - 50 m dipoles

Measured frequency effects are significantly weaker than on the previous line, though still above background. Furthermore a larger number of the values are in the questionable category indicating electrode contact problems.

No significant anomalies are present.

Line 140+00E - 50 m dipoles

A zone of pronounced frequency effects is located between 1250N and 1450N. Resistivities are comparatively low in the 300-600  $\Omega$ -m range. An anomalous feature is interpreted between 1300N and 1450N, at  $n = 2, 3$  and 4 indicating that the source is at shallow depth.

Line 159+00E = 50 m dipoles

This line and the next 4 cover the area bounded by 2000N and 3800N where an extensive geochemical copper and molybdenum anomaly was outlined.

On this line resistivities are generally high (+1500  $\Omega$ -m) and the frequency effects are background. No anomalies are present.

Line 167+00E - 50 m dipoles

No anomalies.

Line 175+00E - 50 m dipoles

No anomalies.

Line 183+00E - 50 m dipoles

No anomalies.

Line 192+00E (Also Line - 88+00mE) - 50 m dipoles

No anomalies.

#### Line 90+00mE - 50 m dipoles

At about 1800N there is a significant change in resistivity indicating a possible electrical contact between two different rock types. To the south resistivities are significantly lower and frequency effects are 2 to 4 times higher.

A weak anomalous zone is interpreted between 1500N and 1600N. The source of the anomaly is deep seated because it has been detected only at the  $n = 4$  spread.

A shallow, stronger anomaly is indicated between 1650N and 1750N.

#### Line 92+00mE - 50 m dipoles

The electrical contact occurs at about 1950N.

The anomalous zone between 1450N and 1550N appears shallower than on the previous line.

The area between 1600N and 1950N has anomalously high frequency effects within which two distinctive zones occur. The first is located between 1600N and 1700N. This feature probably outcrops and is characterized by reduced resistivity and strong frequency effects.

Further north between 1800N and 1900N, frequency effects are up to 4 times background. The strongest responses are obtained at  $n = 2, 3$  and  $4$  indicated the source is located well below surface.

#### Line 94+00mE - 50 m dipoles

The distinctive change in resistivity occurs at about 1950N. To the south, frequency effects are 3 to 4 times background except in the area bounded by 1500N and 1650N for  $n = 1$  and  $2$ . Here frequency effects are near background outlining a pendant-like zone of neutral material.

South of 1500N, a shallow to outcropping anomalous zone is indicated.

#### Line 94+00mE - 50 m dipoles

A definite anomaly is interpreted between 1650N and 1750N. This feature is characterized by high frequency effects along with low resistivities (200  $\Omega$ -m). The strongest responses occur at  $n = 2$  and  $3$  indicating the source is at a depth of about 50 m.

In the high resistivity unit, between 2600N and 2700N the higher than background frequency effects in part correlate with a drop in resistivity. This response is not in itself anomalous but may indicate a polarizable horizon further east along strike.

#### Line 96+00mE - 50 m dipoles

The electrical contact is interpreted at about 2000N. Frequency effects are strongest south of this contact. As well, above background values now extend well into the high resistivity rock unit.

The source of the anomaly south of 1450N is shallow to outcropping. The quality of response suggests a comparatively weak polarizable source.

The response between 1700N and 1800N shows a coincident zone of low resistivity and high frequency effects. Although frequency effect values indicate a shallow source, the focus of this anomaly is due to a deeper source defined at  $n = 2$  and  $3$ .

The weakly anomalous feature between 2600N and 2700N, mentioned on the previous line, is not evident in the frequency effect data but there does appear to be a significant change in resistivity north of 2600N.

#### Line 98+00mE - 50 m dipoles

The electrical contact occurs at about 1950N. Frequency effects, though variable, are generally twice background along the whole length of the line. The response south of the contact is weaker compared to previous lines. As well, the pendant-like neutral zone is more extensive.

The possible anomaly south 1450N is characterized only by anomalous frequency effects.

The zone bounded by 1650N and 1900N is characterized by low resistivities and anomalous frequency effects at  $n = 3$  & 4. Based solely on resistivity data, the most pronounced response is between 1650N and 1750N.

The anomalous zone between 2600N and 2850N is due to a near surface source. Resistivities though high (+ 1500 -m) are considerably less than adjacent values, while frequency effects are up to 3 times background.

#### Line 100+00mE - 50 m dipoles

The electrical contact occurs at 1900N. Frequency effects south of this contact are again weaker as well as more dispersed.

A deep ( $n = 4$ ) polarizable zone occurs between 1450N and 1550N. The response is weak.

A rather weak, near surface zone occurs between 1750N and 1900N.

The strongest response along this line occurs between 2650N and 2850N. Frequency effects are up to 4 times background. Resistivities are comparatively lower between 2750N and 2850N at  $n = 3$  and 4 indicating a buried source.

#### Line 102+00mE - 50 m dipoles

The electrical contact is located at about 1950N.

A very weak, near surface anomalous zone is located between 1750N and 1900N.

North of 2650N, frequency effects are up to 2 times background. Resistivities are comparatively high except between 2850N and 2900N at  $n = 3$  and 4. The source of this overall anomalous response is shallow.

#### Line 104+00mE - 50 m dipoles

The zone between 1700N and 2000N is in an area of slightly lower resistivity. Frequency effects are marginally above background. The source is shallow.

Further north, the weak anomalous zone between 2700N and 2800N is in an area of comparatively high resistivities (+ 1500 -m). Frequency effects are up to twice background. The source of this anomaly is also shallow.

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**10,816**

I.P. SURVEY AREA



**EAGLEHEAD BATHOLITIC UNITS**  
 PORPHYRITIC GRANODIORITE : PGD  
 BIOTITE GRANODIORITE : BGD  
 HORNBLENDE QUARTZ DIORITE : HQD

**LEGEND**

	PGD
	BGD
	HQD
	Porphyry Zone
	Hornblende Zone
	Biotite Zone
	Porphyry Vein
	Fault
	Road
	Contour Line
	Water Body

NUSPAR ESSO RESOURCES  
 UNIT VENTURES  
 EAGLEHEAD PROJECT  
 LAND 10,816  
 COMPILATION MAP

SCALE  
 1:50,000

Fig

ESSO EAGLE PROSPECT L120E															X=50M RHO (OHM-M)	
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
COORDINATE	750N	850N	950N	1050N	1150N	1250N	1350N	1450N								
INTERPRETATION																
N=1	878	600	872	785	956	861	692	1396	874	996	1437	916				N=1
N=2	1190	763	972	894	982	1263	856	1138	1526	737	1259	1015	781			N=2
N=3	1408	999	1183	984	1012	1213	1169	1296	1147	1199	699	855	887	759		N=3
N=4	1461	1162	1351	1173	1010	1172	938	1594	1263	936	1317	590	806	772	903	N=4
N=5																N=5
N=6																N=6

ESSO MINERALS CANADA

EAGLE PROSPECT

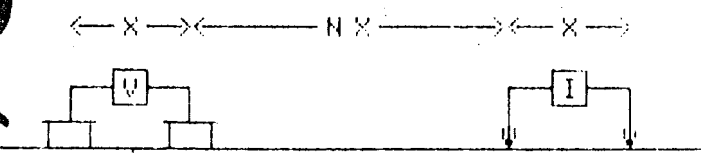
LAIRD M. D. B. C.

LINE NO. -120+00E

ASSESSMENT REPORT

10,816

ESSO EAGLE PROSPECT L120E															X=50M PFE	
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
COORDINATE	750N	850N	950N	1050N	1150N	1250N	1350N	1450N								
INTERPRETATION																
N=1	2.5	2.3	2	3.5	4.8	5.1	3.7	2.6	1.4	3.3	2.3	1				N=1
N=2	2.6	3.1	2.6	3.8	4.2	6	5.6	3.8	2.9	3.8	3.7	3.2	2.3			N=2
N=3	2.8	2.7	3.7	4.1	4.1	4.3	6.1	5.7	4.7	4.6	3.7	3.5	3.8	2.6		N=3
N=4	2.2	2.4	3.8	5.5	5.4	4.2	4.8	5.8	6.4	5.5	4.4	3.2	3.8	4	2.8	N=4
N=5																N=5
N=6																N=6



PLOTTING POINT

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE

PROBABLE

POSSIBLE

ESSO EAGLE PROSPECT L120E															X=50M METAL FACTOR	
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
COORDINATE	750N	850N	950N	1050N	1150N	1250N	1350N	1450N								
INTERPRETATION																
N=1	2.8	3.8	2.3	4.5	5	5.9	5.3	1.9	1.6	3.3	1.6	1.1				N=1
N=2	2.2	4.1	2.7	4.3	4.3	4.8	6.5	3.3	1.9	5.2	2.9	3.2	2.9			N=2
N=3	2	2.7	3.1	4.2	4.1	3.5	5.2	4.4	4.1	3.8	5.3	4.1	4.3	3.4		N=3
N=4	1.5	2.1	2.8	4.7	5.3	3.6	5.1	3.6	5.1	5.9	3.3	5.4	4.7	5.2	3.1	N=4
N=5																N=5
N=6																N=6

FREQUENCY (HERTZ)  
4.0HZ:0.25HZ

DATE SURVEYED: JULY 1982  
APPROVED

NOTE- CONTOURS AT LOGARITHMIC INTERVALS: 1, -1.5, -2, -3, -5, -7.5, -10

PAC  
DATE Nov 10/82

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION  
AND RESISTIVITY SURVEY

ESSO EAGLE PROSPECT L128E														X=50M RHO (OHM-M)	
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12	13	14		
COORDINATE	1000N	1100N	1200N	1300N	1400N	1500N	1600N								
INTERPRETATION															
N=1	520	463	656	434	373	566	378	385	450	434	319	782	1509	1057	N=1
N=2	738	463	721	809	426	515	891	500	558	636	288	441	889	1110	N=2
N=3	991	646	665	881	690	512	695	936	584	678	282	420	505	678	N=3
N=4	1489	737	857	795	672	894	636	693	932	622	403	528	436	390	N=4
N=5															N=5
N=6															N=6

# ESSO MINERALS CANADA

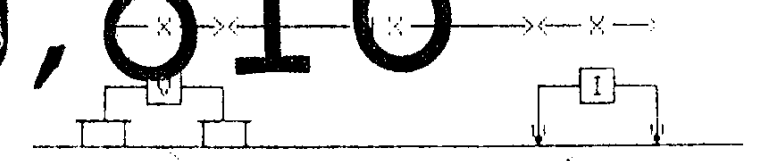
EAGLE PROSPECT

LAIRD M. D. B. C.

## GEOLOGICAL BRANCH ASSESSMENT REPORT

LINE NO -128+00E

# 10,816



PLOTTING POINT

X=50M

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE

PROBABLE

POSSIBLE

ESSO EAGLE PROSPECT L128E														X=50M PFE	
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12	13	14		
COORDINATE	1000N	1100N	1200N	1300N	1400N	1500N	1600N								
INTERPRETATION															
N=1	2.5	2.2	1.5	2.6	3.2	2.3	1.5	1.4	1.8	2.8	2.1	2.1	1.4	1.4	N=1
N=2	4.2	3	3.2	3.8	4.7	3.8	3.5	2.8	3.1	3.6	2.8	2.1	1.7	1.4	N=2
N=3	5	4.6	4.9	5.3	5.3	4.4	4.2	4.7	4.7	4.4	2.4	2.2	2	1.9	N=3
N=4	4.6	5.3	5.2	5.9	6.6	4.7	4.5	4.8	6.2	6.2	2.8	3	2.2	1.4	N=4
N=5															N=5
N=6															N=6

ESSO EAGLE PROSPECT L128E														X=50M METAL FACTOR	
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12	13	14		
COORDINATE	1000N	1100N	1200N	1300N	1400N	1500N	1600N								
INTERPRETATION															
N=1	4.8	4.8	2.3	6	8.6	4.1	4	3.6	4	6.5	6.6	2.7	1.9	1.3	N=1
N=2	5.3	6.5	4.4	4.7	11	7.4	3.9	5.6	5.6	5.7	9.7	4.8	1.9	1.3	N=2
N=3	5	7.1	7.4	6	7.7	8.6	6	5	8	6.5	8.5	5.2	4	2.8	N=3
N=4	3.1	7.2	6.1	7.4	9.8	5.3	7.1	6.9	6.7	10	6.9	5.7	5	3.6	N=4
N=5															N=5
N=6															N=6

FREQUENCY (HERTZ)  
4.0HZ, 0.25HZ

DATE SURVEYED JULY 1982  
APPROVED

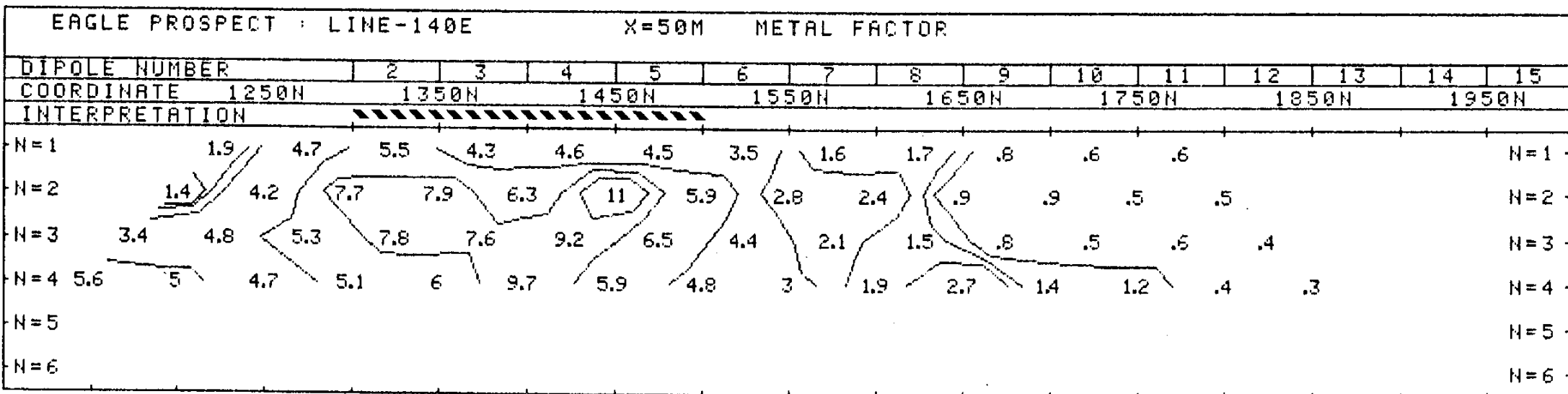
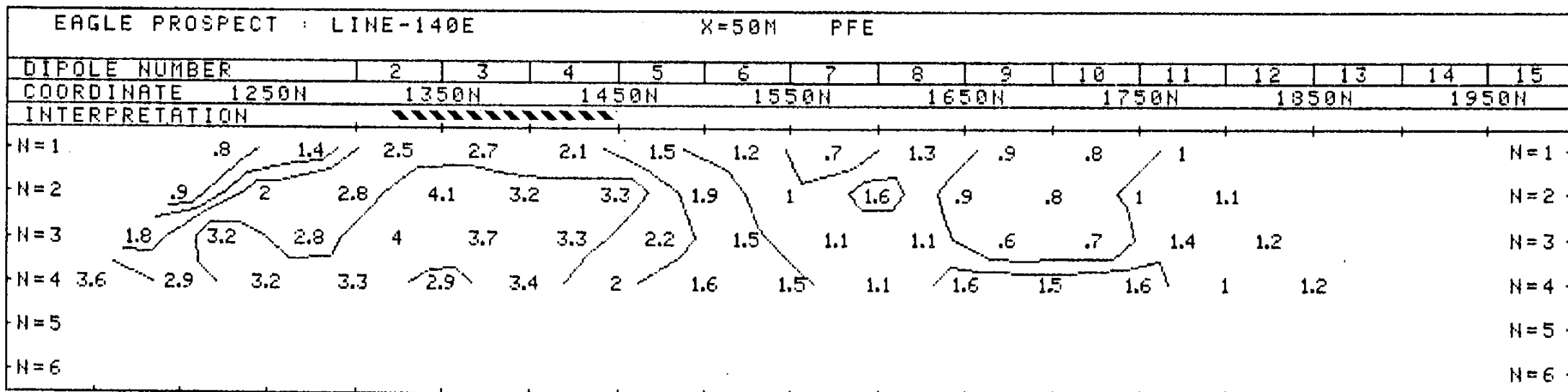
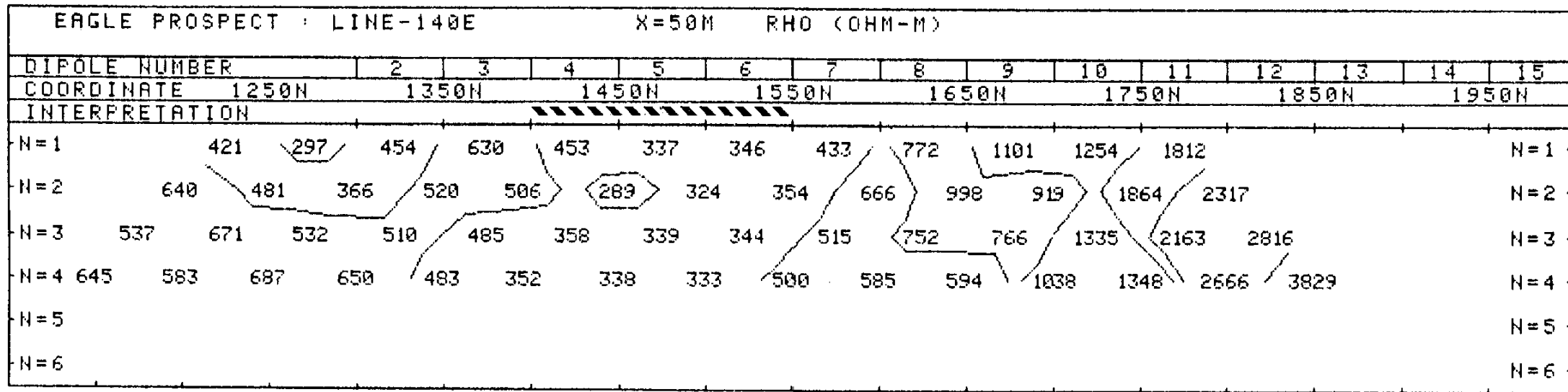
NOTE - CONTOURS  
AT LOGARITHMIC  
INTERVALS: 1, -1.5  
-2, -3, -5, -7.5, -10

*PAC*  
DATE Nov 10/82

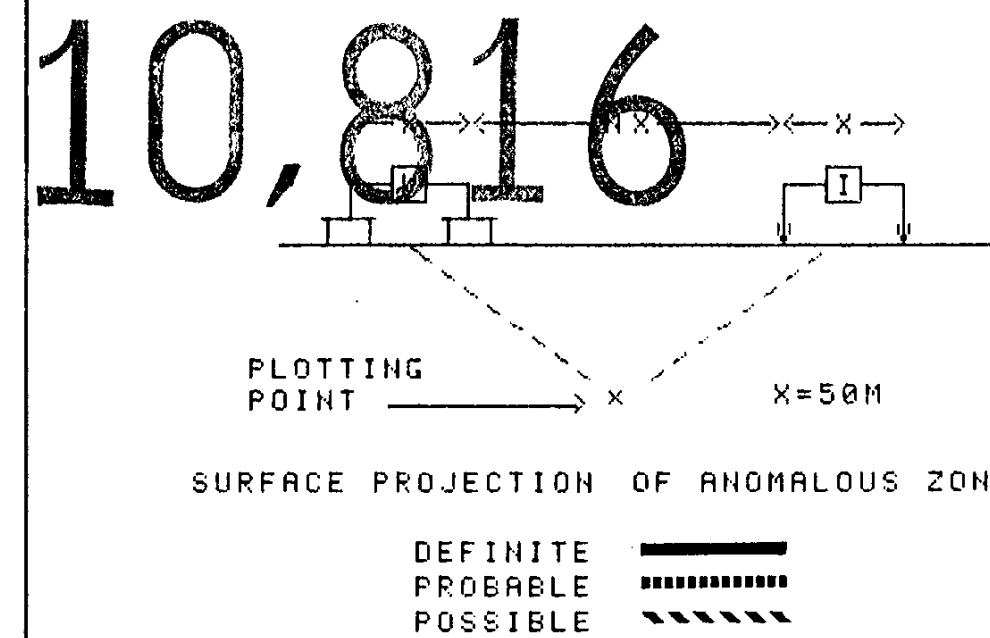
## PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION  
AND RESISTIVITY SURVEY





ESSO MINERALS CANADA  
 EAGLE PROSPECT  
 LIARD M.D. / BRITISH COLUMBIA  
 GEOLOGICAL BRANCH  
 ASSESSMENT REPORT LINE 140E



FREQUENCY (HERTZ) 0.25 & 4.0 HZ. DATE SURVEYED: JULY 1982 APPROVED

NOTE- CONTOURS AT LOGARITHMIC INTERVALS. 1, -1.5, -2, -3, -5, -7.5, -10 DATE

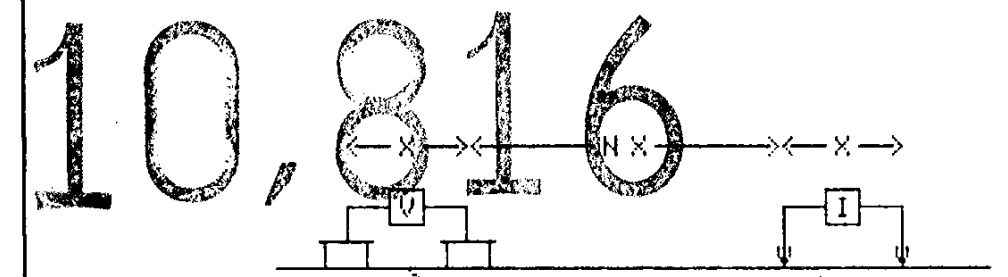
PHOENIX GEOPHYSICS LTD.  
 INDUCED POLARIZATION AND RESISTIVITY SURVEY

ESSO MINERALS CANADA

EAGLE PROSPECT

LIARD M.D. / BRITISH COLUMBIA  
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

LINE NO. - 136E



PLOTTING POINT → X X=50M

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE   
PROBABLE   
POSSIBLE 

FREQUENCY (HERTZ)  
0.25 & 4.0 HZ.

DATE SURVEYED: JULY 1982  
APPROVED \_\_\_\_\_

NOTE - CONTOURS  
AT LOGARITHMIC  
INTERVALS: 1, -1.5  
-2, -3, -5, -7.5, -10

DATE \_\_\_\_\_

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION  
AND RESISTIVITY SURVEY

EAGLE PROSPECT : LINE-136E		X=50M RHO (OHM-M)																				
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
COORDINATE	1000N	1100N	1200N	1300N	1400N	1500N	1600N	1700N	1800N	1900N												
INTERPRETATION																						
N=1	608	590	659	380	298	424	414	636	507	544	292	366	254	270	517	1185	2168				N=1	
N=2	660	767	581	376	559	595	491	601	585	409	351	242	219	632	660	1281	1998				N=2	
N=3	859	723	531	680	690	616	464	665	479	456	241	246	507	760	778	1179	2418				N=3	
N=4		812	618	879	740	673	525	507	526	483	297	268	526	579	826	666	1383	2626				N=4
N=5																				N=5		
N=6																				N=6		

EAGLE PROSPECT : LINE-136E		X=50M PFE																			
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
COORDINATE	1000N	1100N	1200N	1300N	1400N	1500N	1600N	1700N	1800N	1900N											
INTERPRETATION																					
N=1	2.4	2.4	1.6	.7	.8	.8	.9	.9	1.1	2.2	2.3	.3	.6	.7	1	1.1	1.3				N=1
N=2	2.1	2.2	1.6	.8	1.8	2.6	3.4	2.1	3.4	3.5	1.7	1.6	.6	.7	.7	1.3	1.1				N=2
N=3	(2.5)	2.8	2.7	2.4	3.2	2.2	(2.1)	2.2	(2.9)	1.5	(2.3)	1.6	1.2	.9	1.2	1.2	1.1				N=3
N=4	(3.3)	2.6	1.9	(2.2)	1.6	T.N.	(3.3)	(3.3)	2.8	(3.1)	(2.3)	(1.4)	(1.4)	(1.6)	(1.3)	1	1				N=4
N=5																				N=5	
N=6																				N=6	

EAGLE PROSPECT : LINE-136E		X=50M METAL FACTOR																			
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
COORDINATE	1000N	1100N	1200N	1300N	1400N	1500N	1600N	1700N	1800N	1900N											
INTERPRETATION																					
N=1	3.9	4.1	2.4	1.8	2.7	1.9	2.2	1.4	2.2	4	7.9	.8	2.4	2.6	1.9	.9	.6				N=1
N=2	3.2	2.9	2.8	2.1	3.2	4.4	6.9	3.5	5.8	8.6	4.8	6.6	2.7	1.1	1.1	1	.6				N=2
N=3	(2.9)	3.9	5.1	3.5	4.6	3.6	(4.5)	3.3	(6.1)	3.3	(9.5)	6.5	2.4	1.2	1.5	1	.5				N=3
N=4	(4.1)	4.2	2.2	(3)	2.4	X	(6.5)	(6.3)	5.8	(10)	(8.6)	(2.7)	(2.4)	(1.9)	(2)	.7	.4				N=4
N=5																				N=5	
N=6																				N=6	





FEAGLE PROSPECT : LINE-175E		X=50M RHO (OHM-M)																															
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		
COORDINATE	2200N	2300N	2400N	2500N	2600N	2700N	2800N	2900N	3000N	3100N	3200N	3300N	3400N	3500N	3600N	3700N																	
INTERPRETATION																																	
N=1	998	2486	2276	1322	2011	1214	1507	1520	2209	1900	1985	2900	2420	1887	1708	2138	1491	1832	2307	3247	3213	2488	1816	2311	2062	1754	1112	1438	1479	1581	N=1		
N=2		1362	2608	1442	1700	2438	1973	1788	2147	2366	1975	2508	2938	1615	2318	1975	1093	1805	2280	1985	3126	3084	1853	2569	2303	2410	1509	2561	1800	1047	4714	N=2	
N=3			1306	1735	1678	2161	3395	2095	2470	2302	2410	2418	2465	1697	1923	2284	1287	1520	2114	2090	2319	2841	2014	2454	2540	2324	1643	3318	2736	1210	2520	4786	N=3
N=4				1066	2005	1919	2881	3230	2677	2543	2343	2769	2264	1506	2021	1882	1594	1830	1748	1991	2546	2110	1848	2423	2329	2432	1572	3512	3259	1702	2787	2368	N=4
N=5																																	N=5
N=6																																	N=6

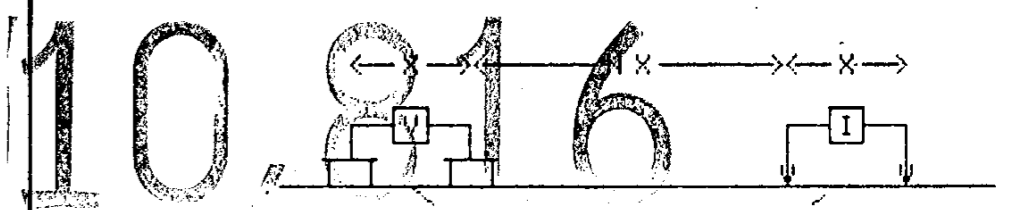
FEAGLE PROSPECT : LINE-175E		X=50M PFE																															
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		
COORDINATE	2200N	2300N	2400N	2500N	2600N	2700N	2800N	2900N	3000N	3100N	3200N	3300N	3400N	3500N	3600N	3700N																	
INTERPRETATION																																	
N=1	1.4	1.6	1.7	1.4	1.6	1.2	.9	.9	1.6	1.4	1.3	1.2	1.2	.7	1.1	.9	1.2	.8	1.2	1	.8	.9	.8	.9	.9	1	.9	1	.9	1.4	N=1		
N=2		1.1	1.6	1.4	1.6	1.6	1.4	1	1.3	1.2	1	1.5	1.3	.7	.8	1.4	1.1	1.1	1.2	1	1.1	.6	.9	.7	.7	.8	.7	1	.9	.8	1.5	N=2	
N=3			1.6	1.2	1.7	1.8	1.8	1.2	1.2	1.3	1.2	1.4	1.4	.9	1.1	1.2	1.3	1.2	1.1	1.2	1.3	1.2	.6	.8	1.7	.6	.7	.8	1.1	1.2	.9	1.4	N=3
N=4				1.2	1.4	1.9	1.9	1.6	1.5	1.2	1	1.3	1	1.3	.9	1.1	1.2	1.2	1.4	1.1	1.1	1.2	1.1	.5	1.4	1.2	.9	1	1	1.3	1.4	1	N=4
N=5																																	N=5
N=6																																	N=6

FEAGLE PROSPECT : LINE-175E		X=50M METAL FACTOR																															
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		
COORDINATE	2200N	2300N	2400N	2500N	2600N	2700N	2800N	2900N	3000N	3100N	3200N	3300N	3400N	3500N	3600N	3700N																	
INTERPRETATION																																	
N=1	1.4	.6	.7	1.1	.8	1	.6	.6	.7	.7	.7	.7	.4	.5	.4	.4	.5	.3	.2	.4	.4	.4	.4	.4	.6	.8	.7	.6	.9	N=1			
N=2		.8	.6	1	.9	.7	.7	.6	.6	.5	.5	.6	.4	.4	.3	.7	.9	.6	.5	.5	.4	.2	.5	.3	.3	.3	.5	.4	.5	.8	.3	N=2	
N=3			1.2	.7	1	.8	.5	.6	.5	.6	.5	.6	.5	.6	.5	1	.8	.5	.6	.6	.4	.3	.3	.7	.3	.4	.2	.4	1	.4	.3	N=3	
N=4				1.1	.7	1	.7	.5	.6	.5	.4	.5	.4	.9	.4	.6	.8	.7	.8	.6	.4	.6	.6	.2	.6	.5	.6	.3	.3	.8	.5	.4	N=4
N=5																																	N=5
N=6																																	N=6

# ESSO MINERALS CANADA

EAGLE PROSPECT  
LIARD M.D. / BRITISH COLUMBIA

## GEOLOGICAL BRANCH-175E ASSESSMENT REPORT



PLOTTING POINT X X=50M  
SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE ———  
PROBABLE .....  
POSSIBLE - - - - -

FREQUENCY (HERTZ) 0.25 & 4.0 HZ. DATE SURVEYED: JULY 1982  
APPROVED \_\_\_\_\_

NOTE- CONTOURS AT LOGARITHMIC INTERVALS: 1, -1.5, -2, -3, -5, -7.5, -10  
DATE \_\_\_\_\_

### PHOENIX GEOPHYSICS LTD.

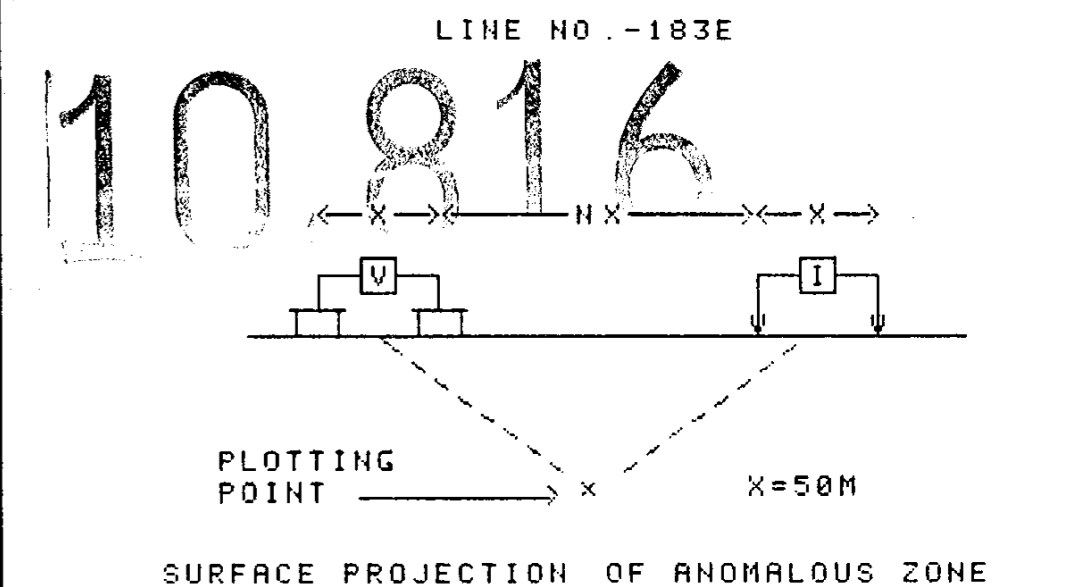
INDUCED POLARIZATION  
AND RESISTIVITY SURVEY

EAGLE PROSPECT : LINE-193E		X=50M RHO (OHM-M)																															
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		
COORDINATE	2200N	2300N	2400N	2500N	2600N	2700N	2800N	2900N	3000N	3100N	3200N	3300N	3400N	3500N	3600N	3700N																	
INTERPRETATION																																	
N=1	2142	1811	2355	1923	2486	2333	2369	4845	4379	3622	3338	2306	3730	1872	1308	2576	2456	3238	2546	3035	3095	2124	1523	969	732	412	659	1640	2120	1970			
N=2	3256	1975	1801	2302	2458	3231	2938	2961	4861	3691	3489	4227	2583	2129	2222	2250	2127	2987	4631	3000	2194	2531	1906	1231	1033	750	724	1088	2342	1996	2513		
N=3	2395	2901	1900	1686	2916	3401	3685	3298	3440	4028	3749	4301	4328	1553	2303	3506	1914	2352	3642	4593	2988	1827	2288	1523	1279	1193	1251	1061	1317	2000	2459	2447	
N=4	1976	2794	1769	2040	3648	3471	3948	3610	3025	4169	4387	4245	2559	1675	3441	2926	2280	2705	3610	4228	2470	1680	1736	1489	1531	1875	1699	1181	169	2270	2244		
N=5																																	
N=6																																	

EAGLE PROSPECT : LINE-183E		X=50M PFE																															
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		
COORDINATE	2200N	2300N	2400N	2500N	2600N	2700N	2800N	2900N	3000N	3100N	3200N	3300N	3400N	3500N	3600N	3700N																	
INTERPRETATION																																	
N=1	1.2	1.5	1.2	1	1	1.2	1.1	1.2	2.1	1.3	1.3	1.4	1.7	1	1.1	1	1	.9	1.2	1	1.3	1.4	1	1.3	.8	.9	.9	1.2	.9	1.2			
N=2	1.6	1.1	1.3	1.1	1	1.5	1.4	1.1	1.7	1.3	1.4	1.6	1.1	.9	1	1.3	.9	1	1.2	1	1.4	1.2	1	1.1	1.1	.8	1.1	1.5	1	1	1.4		
N=3	1.2	1.2	1.2	1	1.1	1.3	1.5	1.2	1.2	1.4	1.4	1.4	1.9	1	1.2	1.2	1.3	.8	1.5	1.6	1	1.2	1	1.1	.9	1	.9	.9	1.1	1.1	1.3	1	
N=4	1.6	1.2	1	1.2	1.2	1.2	1.3	1	1	1.4	1.7	1.8	1.2	1.6	1.2	1.4	1.1	1.1	1.7	1.2	1.3	.7	1.1	.9	.9	1	1.1	1.1	1.1	1	.8		
N=5																																	
N=6																																	

EAGLE PROSPECT : LINE-183E		X=50M METAL FACTOR																															
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		
COORDINATE	2200N	2300N	2400N	2500N	2600N	2700N	2800N	2900N	3000N	3100N	3200N	3300N	3400N	3500N	3600N	3700N																	
INTERPRETATION																																	
N=1	.6	.8	.5	.5	.4	.5	.5	.2	.5	.4	.4	.6	.5	.5	.8	.4	.4	.3	.5	.3	.4	.7	.7	1.3	1.1	2.2	1.4	.7	.4	.6			
N=2	.5	.6	.7	.5	.4	.5	.5	.4	.3	.4	.4	.4	.4	.4	.5	.6	.4	.3	.3	.3	.6	.5	.5	.9	1.1	1.1	1.5	1.4	.4	.5	.6		
N=3	.5	.4	.6	.6	.4	.4	.4	.4	.3	.3	.4	.3	.4	.6	.5	.3	.7	.3	.4	.3	.7	.4	.7	.7	.8	.7	.8	.8	.6	.5	.4		
N=4	.8	.4	.6	.6	.3	.3	.3	.3	.3	.3	.4	.4	.5	.3	.5	.5	.4	.5	.3	.5	.4	.6	.6	.6	.5	.6	.9	.9	.4	.4			
N=5																																	
N=6																																	

ESSO MINERALS CANADA  
 EAGLE PROSPECT  
 GEOLOGICAL BRANCH  
 ASSESSMENT REPORT



FREQUENCY (HERTZ) 0.25 & 4.0 HZ.  
 DATE SURVEYED: JULY 1982  
 APPROVED

NOTE- CONTOURS AT LOGARITHMIC INTERVALS: 1, -1.5, -2, -3, -5, -7.5, -10  
 DATE

PHOENIX GEOPHYSICS LTD.  
 INDUCED POLARIZATION  
 AND RESISTIVITY SURVEY

EAGLE PROSPECT : LINE-90E		X=50M RHO (OHM-M)							
DIPOLE NUMBER	2	3	4	5	6	7	8		
COORDINATE	1050N	1150N	1250N	1350N					
INTERPRETATION									
N=1	2015	2733	2698	4221	2746	1914	1333	538	N=1
N=2	2548	3225	2851	4031	2046	1394	1006		N=2
N=3		2727	3451	2850	2651	1644	1022		N=3
N=4		2875	3575	1932	1948	1096			N=4
N=5									N=5
N=6									N=6

EAGLE PROSPECT : LINE-90E		X=50M PFE							
DIPOLE NUMBER	2	3	4	5	6	7	8		
COORDINATE	1050N	1150N	1250N	1350N					
INTERPRETATION									
N=1	1.1	3.1	2.5	1.9	2	2.6	1.6	.7	N=1
N=2	2.4	2.8	2.2	2.5	2.2	2.2	1.6		N=2
N=3		2.3	2	2.2	2.7	2.3	2.2		N=3
N=4		2.1	2.6	2.2	3.2	2.1			N=4
N=5									N=5
N=6									N=6

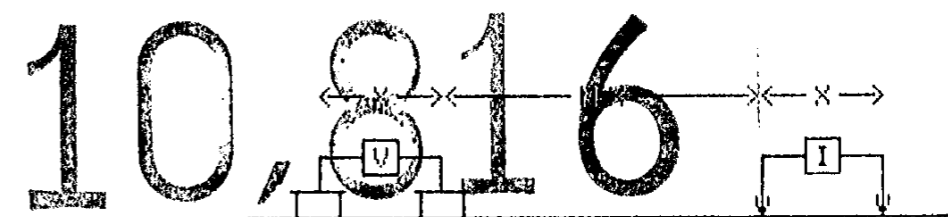
EAGLE PROSPECT : LINE-90E		X=50M METAL FACTOR							
DIPOLE NUMBER	2	3	4	5	6	7	8		
COORDINATE	1050N	1150N	1250N	1350N					
INTERPRETATION									
N=1	.5	1.1	.9	.4	.7	1.4	1.2	1.3	N=1
N=2	.9	.9	.8	.6	1.1	1.6	1.6		N=2
N=3		.8	.6	.8	1	1.4	2.2		N=3
N=4		.7	.7	1.1	1.6	1.9			N=4
N=5									N=5
N=6									N=6

# ESSO MINERALS CANADA

EAGLE PROSPECT

LIARD M.D. / BRITISH COLUMBIA

## GEOLOGICAL BRANCH ASSESSMENT REPORT



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE   
 PROBABLE   
 POSSIBLE 

FREQUENCY (HERTZ)  
0.25 & 4.0 HZ.

DATE SURVEYED: JULY 1982  
APPROVED \_\_\_\_\_

NOTE- CONTOURS  
AT LOGARITHMIC  
INTERVALS. 1, -1.5  
-2, -3, -5, -7.5, -10

DATE \_\_\_\_\_

### PHOENIX GEOPHYSICS LTD.

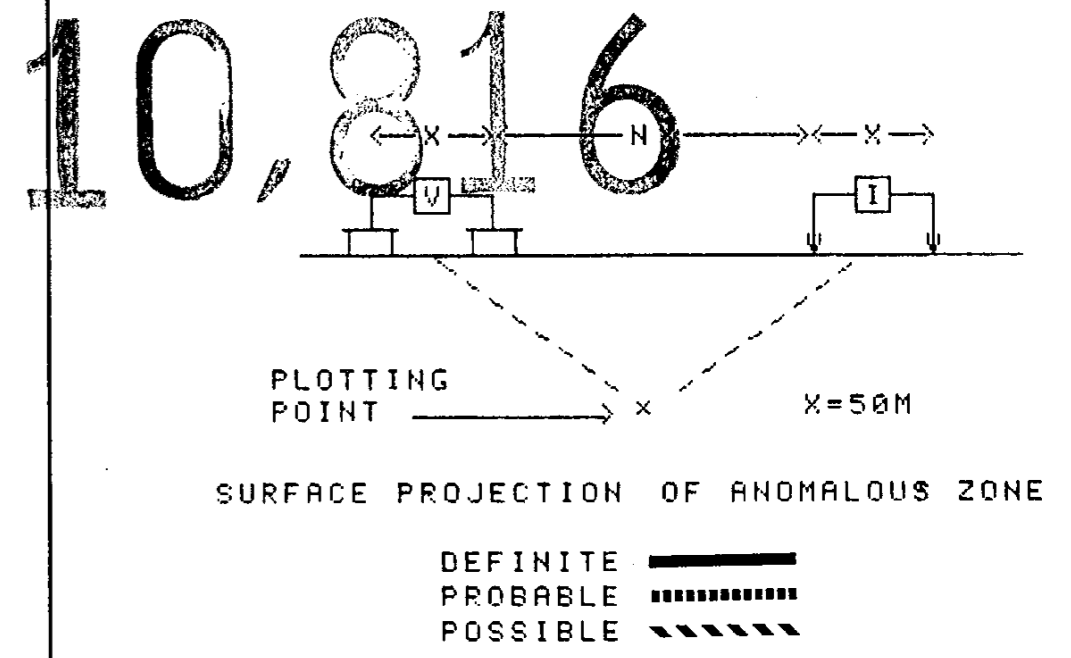
INDUCED POLARIZATION  
AND RESISTIVITY SURVEY

EAGLE PROSPECT : LINE-192E																																	
X=50M RHO (OHM-M)																																	
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		
COORDINATE	2200N	2300N	2400N	2500N	2600N	2700N	2800N	2900N	3000N	3100N	3200N	3300N	3400N	3500N	3600N	3700N																	
INTERPRETATION																																	
N=1	2686	2522	1739	2577	1750	4344	6442	2313	3734	3021	3313	1888	1111	1166	1941	1636	2109	1885	1382	1393	1842	1431	1976	2048	3667	2494	1818	1623	1833	2390	N=1		
N=2	3067	2722	1800	2531	3060	2308	5813	4957	3389	3427	3201	3357	1313	1474	1945	1624	1672	2500	1857	1599	1940	1741	1736	2027	3007	2340	1711	2970	1420	1693	3047	N=2	
N=3	2434	3240	2131	2577	2879	3401	3410	4940	5938	3032	3904	3151	2071	1744	2451	1673	1425	2038	2464	2062	2183	1674	1938	1680	3154	1923	1976	2641	2533	1541	2019	1633	N=3
N=4	2493	2692	3064	2921	2823	4484	2927	5362	4590	3124	3244	1771	2692	2601	1993	1518	1685	1948	2685	2685	1664	1796	1900	2593	2230	1720	2969	2039	2573	1905	1172	N=4	
N=5																															N=5		
N=6																															N=6		

EAGLE PROSPECT : LINE-192E																																	
X=50M PFE																																	
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		
COORDINATE	2200N	2300N	2400N	2500N	2600N	2700N	2800N	2900N	3000N	3100N	3200N	3300N	3400N	3500N	3600N	3700N																	
INTERPRETATION																																	
N=1	1.2	1.2	1.4	1	1	1.5	1.5	1.4	1.2	1.3	1.8	1.2	.9	1.6	1.3	1.4	.9	1.5	1.2	1.1	1	1.5	1.2	1.4	.8	1.9	.9	1.3	.7	1.2	N=1		
N=2	1.5	1.5	1.3	1.1	1.1	1.8	1.9	1.7	1.6	1.3	1.9	2	1.6	1.4	1.2	1.3	.9	1.2	1.4	1	1.3	1.5	1	.9	1.3	1.3	1	1.1	1.6	1.2	.8	N=2	
N=3	1	1.4	1.4	1.2	1	1.5	1.7	1.6	1.5	1.3	1.6	1.7	1.5	1.6	1.6	1.4	.7	1.1	1.1	1.2	1.5	(1.5)	1.2	.9	1.3	1.9	.8	1.4	1.2	1.4	.7	.8	N=3
N=4	(1.6)	1.2	1.4	1.1	T.N.	(2.2)	(1.6)	1.6	1.3	(1.5)	(1.6)	1.7	(1.5)	(1.7)	(1.6)	(1.6)	(1.6)	1.6	1.1	(1.2)	(1.5)	1.4	1.3	1	1.8	1.3	1.3	1.4	1.2	1	.6	N=4	
N=5																															N=5		
N=6																															N=6		

EAGLE PROSPECT : LINE-192E																																	
X=50M METAL FACTOR																																	
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		
COORDINATE	2200N	2300N	2400N	2500N	2600N	2700N	2800N	2900N	3000N	3100N	3200N	3300N	3400N	3500N	3600N	3700N																	
INTERPRETATION																																	
N=1	.5	.5	.8	.4	.6	.3	.2	.6	.3	.4	.5	.6	.8	1.4	.7	.9	.4	.8	.9	.8	.5	1	.6	.7	.2	.8	.5	.8	.4	.5	N=1		
N=2	.5	.6	.7	.4	.4	.8	.3	.3	.5	.4	.6	.6	1.2	.9	.6	.8	.5	.5	.8	.6	.7	.9	.6	.4	.4	.6	.6	.4	1.1	.7	.3	N=2	
N=3	.4	.4	.7	.5	.3	.4	.5	.3	.3	.4	.4	.5	.7	.9	.7	.8	.5	.5	.4	.6	.7	(.9)	.6	.5	.4	1	.4	.5	.5	.9	.3	.5	N=3
N=4	(.6)	.4	(.5)	.4	-	(.5)	(.5)	.3	.3	(.5)	(.5)	1	(.6)	(.7)	(.8)	(1.1)	.9	.8	.4	(.4)	(.9)	.8	.7	.4	.8	.8	.4	.7	.5	.5	.5	N=4	
N=5																															N=5		
N=6																															N=6		

**ESSO MINERALS CANADA**  
 EAGLE PROSPECT  
 LIARD M.D. / BRITISH COLUMBIA  
**GEOLOGICAL BRANCH**  
**ASSESSMENT REPORT**  
 LINE NO. -192E



FREQUENCY (HERTZ) 0.25 & 4.0 HZ. DATE SURVEYED: JULY 1982  
 APPROVED \_\_\_\_\_

NOTE- CONTOURS AT LOGARITHMIC INTERVALS. 1, -1.5, -2, -3, -5, -7.5, -10 DATE \_\_\_\_\_

**PHOENIX GEOPHYSICS LTD.**  
 INDUCED POLARIZATION  
 AND RESISTIVITY SURVEY

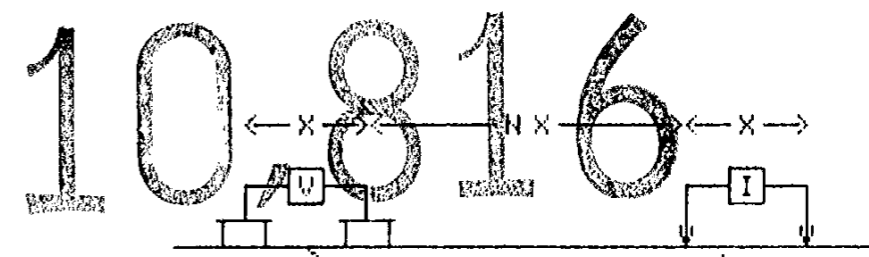


EAGLE PROSPECT : LINE-90E		X=50M RHO (OHM-M)							
DIPOLE NUMBER	2	3	4	5	6	7	8		
COORDINATE	2850N	2950N	3050N	3150N					
INTERPRETATION									
N=1	1361	4750	2029	2143	2208	1794	2362	1295	N=1
N=2	1573	2895	2640	3431	2325	1800	1701		N=2
N=3	1144	3287	3705	3320	2482	1469			N=3
N=4	1338	4387	3442	3640	1817				N=4
N=5									N=5
N=6									N=6

EAGLE PROSPECT : LINE-90E		X=50M PFE							
DIPOLE NUMBER	2	3	4	5	6	7	8		
COORDINATE	2850N	2950N	3050N	3150N					
INTERPRETATION									
N=1	.8	1.1	1	1	1	1	1.3	.7	N=1
N=2	.8	1.3	1	1.3	1.1	.7	.9		N=2
N=3	.7	1	1.4	1	.9	.8			N=3
N=4	.7	1.2	1.1	1.1	.8				N=4
N=5									N=5
N=6									N=6

EAGLE PROSPECT : LINE-90E		X=50M METAL FACTOR							
DIPOLE NUMBER	2	3	4	5	6	7	8		
COORDINATE	2850N	2950N	3050N	3150N					
INTERPRETATION									
N=1	.6	.2	.5	.5	.5	.6	.6	.5	N=1
N=2	.5	.4	.4	.4	.5	.4	.5		N=2
N=3	.6	.3	.4	.3	.4	.5			N=3
N=4	.5	.3	.3	.3	.4				N=4
N=5									N=5
N=6									N=6

**ESSO MINERALS CANADA**  
 EAGLE PROSPECT  
 LIARD M.D. / BRITISH COLUMBIA  
**GEOLOGICAL BRANCH**  
**ASSESSMENT REPORT**



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE   
 PROBABLE   
 POSSIBLE

FREQUENCY (HERTZ)  
0.25 & 4.0 HZ.

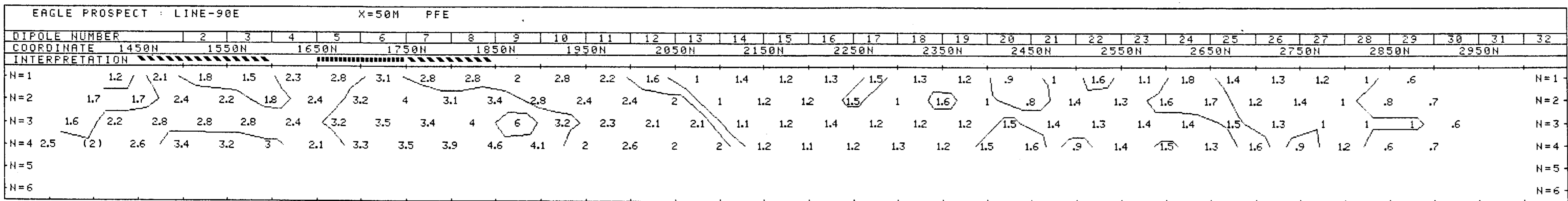
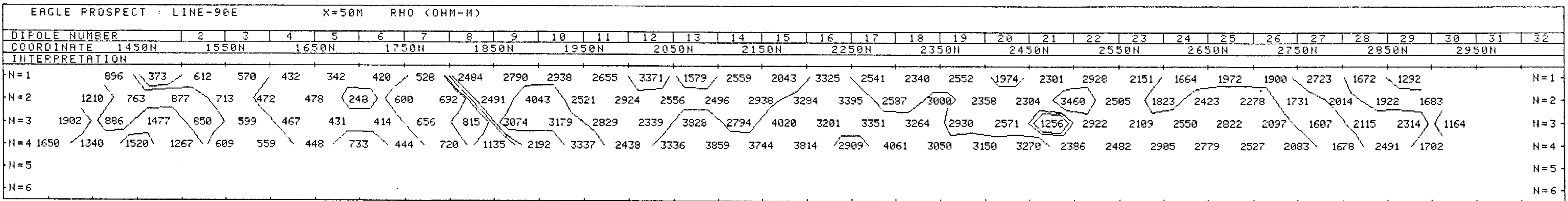
DATE SURVEYED: JULY 1982  
APPROVED \_\_\_\_\_

NOTE- CONTOURS  
AT LOGARITHMIC  
INTERVALS. 1, -1.5  
-2, -3, -5, -7.5, -10

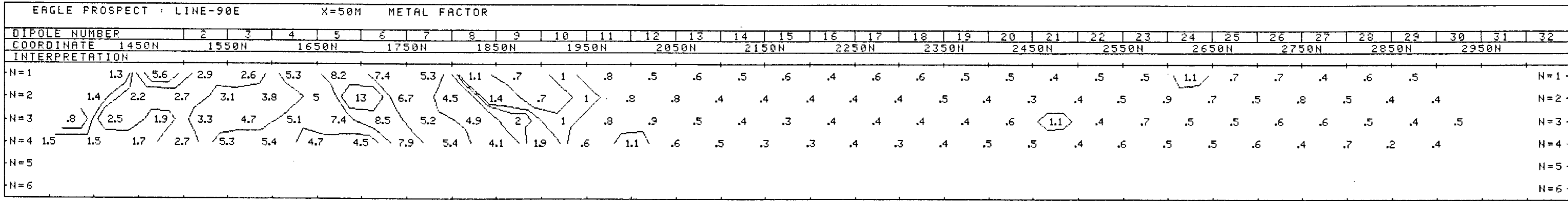
DATE \_\_\_\_\_

**PHOENIX GEOPHYSICS LTD.**

INDUCED POLARIZATION  
 AND RESISTIVITY SURVEY

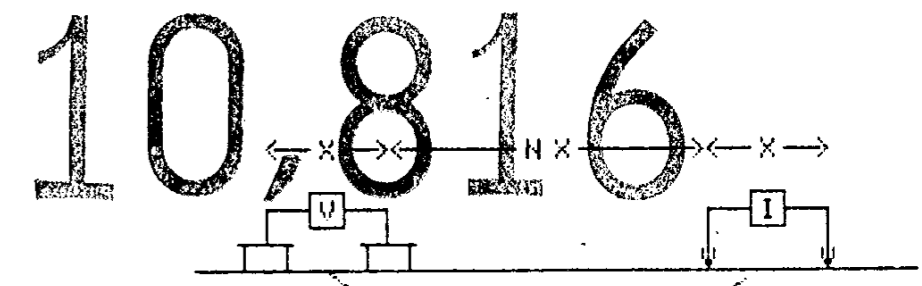


TOPOGRAPHY



# ESSO MINERALS CANADA

EAGLE PROSPECT  
 LIARD M.D. / BRITISH COLUMBIA  
**GEOLOGICAL BRANCH**  
**ASSESSMENT REPORT**  
 LINE NO. -90E



PLOTTING POINT X  
 SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE [Solid line]  
 PROBABLE [Dashed line]  
 POSSIBLE [Hatched line]

FREQUENCY (HERTZ) 0.25 & 4.0 HZ. DATE SURVEYED: JULY 1982  
 APPROVED \_\_\_\_\_

NOTE - CONTOURS AT LOGARITHMIC INTERVALS: 1, -1.5, -2, -3, -5, -7.5, -10. DATE \_\_\_\_\_

## PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION  
 AND RESISTIVITY SURVEY

EAGLE PROSPECT : LINE-90E		X=50M RHO (OHM-M)											
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12		
COORDINATE	3200N	3300N	3400N	3500N	3600N	3700N							
INTERPRETATION													
N=1	1352	1956	1558	1493	2038	1838	1917	2285	2945	2842	N=1		
N=2	1702	1754	2614	1522	2016	1911	2188	2239	2241	3050	2772	N=2	
N=3	1608	2122	2218	2375	1778	1840	2274	2391	2648	2307	2993	2470	N=3
N=4	1976	2448	1822	2470	1543	2134	2496	2491	2493	2262	2552	N=4	
N=5												N=5	
N=6												N=6	

EAGLE PROSPECT : LINE-90E		X=50M PFE											
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12		
COORDINATE	3200N	3300N	3400N	3500N	3600N	3700N							
INTERPRETATION													
N=1	1	1	1	1.2	1.1	1	1	1.1	1.2	1.3	N=1		
N=2	1.1	1.5	1.1	1.2	1.1	1.4	1.3	1.2	1.2	1.2	1.2	N=2	
N=3	1.2	1.3	.9	1	1.2	1.3	1	1.2	1.2	1.4	.8	.9	N=3
N=4	1.3	1.5	1.3	1.2	1.3	1.2	1.2	1.5	1.3	1.5	1	N=4	
N=5												N=5	
N=6												N=6	

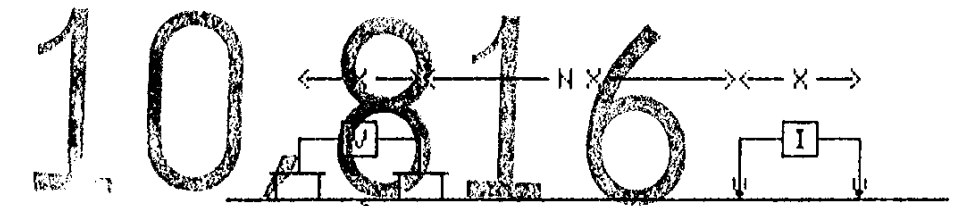
EAGLE PROSPECT : LINE-90E		X=50M METAL FACTOR											
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12		
COORDINATE	3200N	3300N	3400N	3500N	3600N	3700N							
INTERPRETATION													
N=1	.7	.5	.6	.8	.5	.5	.5	.5	.4	.5	N=1		
N=2	.6	.9	.4	.8	.5	.7	.6	.5	.5	.4	.4	N=2	
N=3	.7	.6	.4	.4	.7	.7	.4	.5	.5	.6	.3	.4	N=3
N=4	.7	.6	.7	.5	.8	.6	.5	.6	.5	.7	.4	N=4	
N=5												N=5	
N=6												N=6	

# ESSO MINERALS CANADA

EAGLE PROSPECT




LIARD M.D. / BRITISH COLUMBIA

## GEOLOGICAL AND GEOPHYSICAL ASSESSMENT REPORT



PLOTTING POINT x X=50M

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE   
 PROBABLE   
 POSSIBLE 

FREQUENCY (HERTZ)  
0.25 & 4.0 HZ.

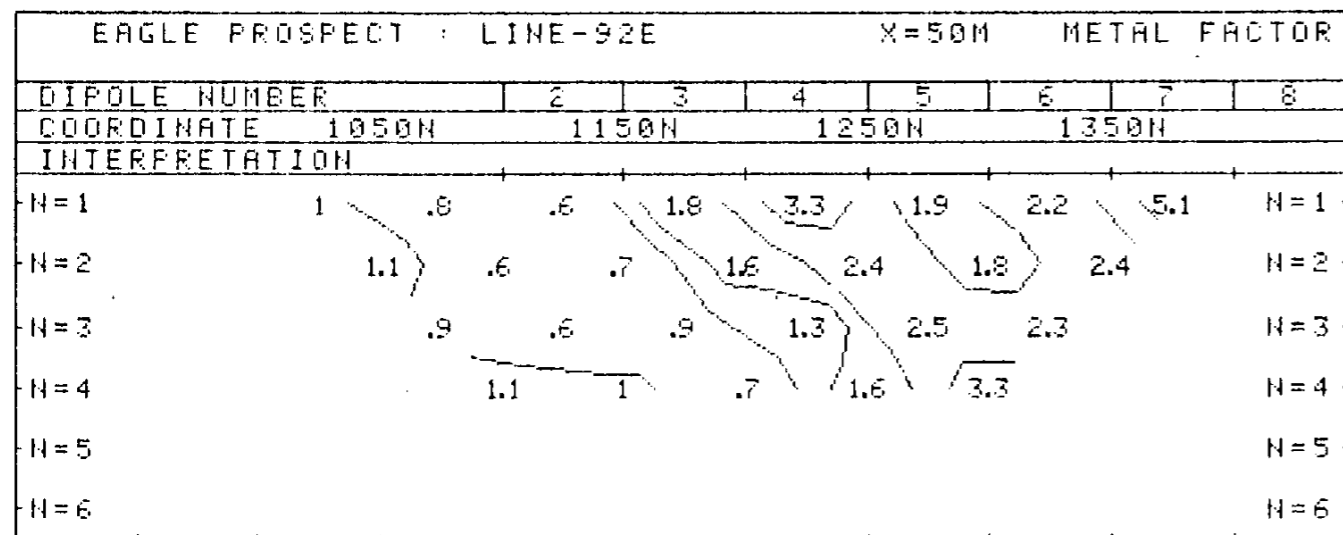
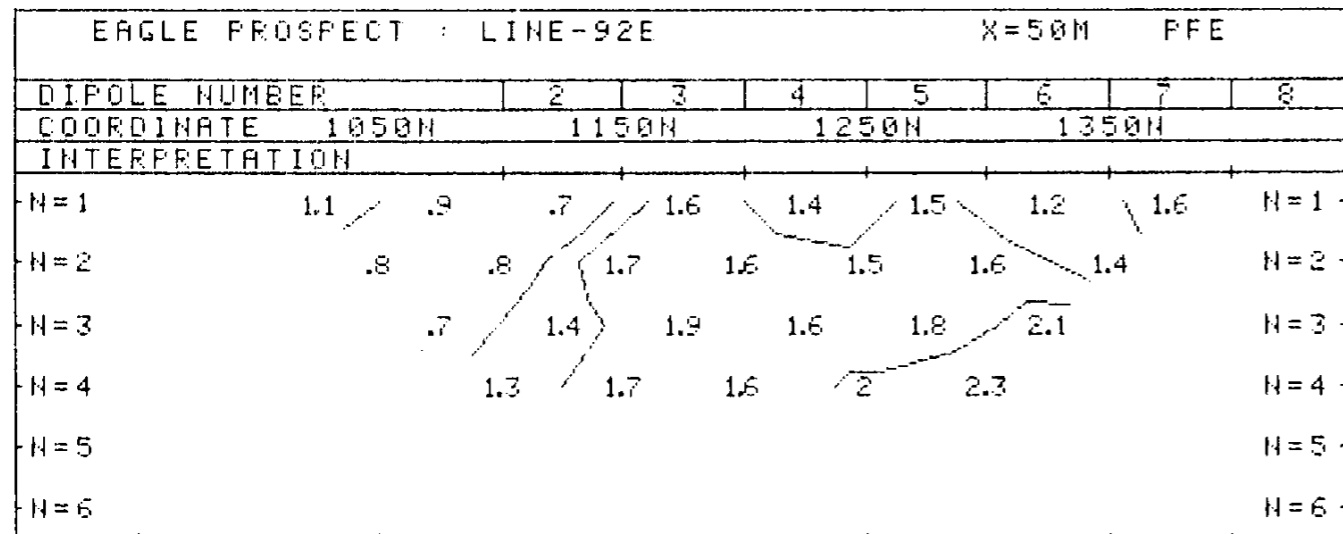
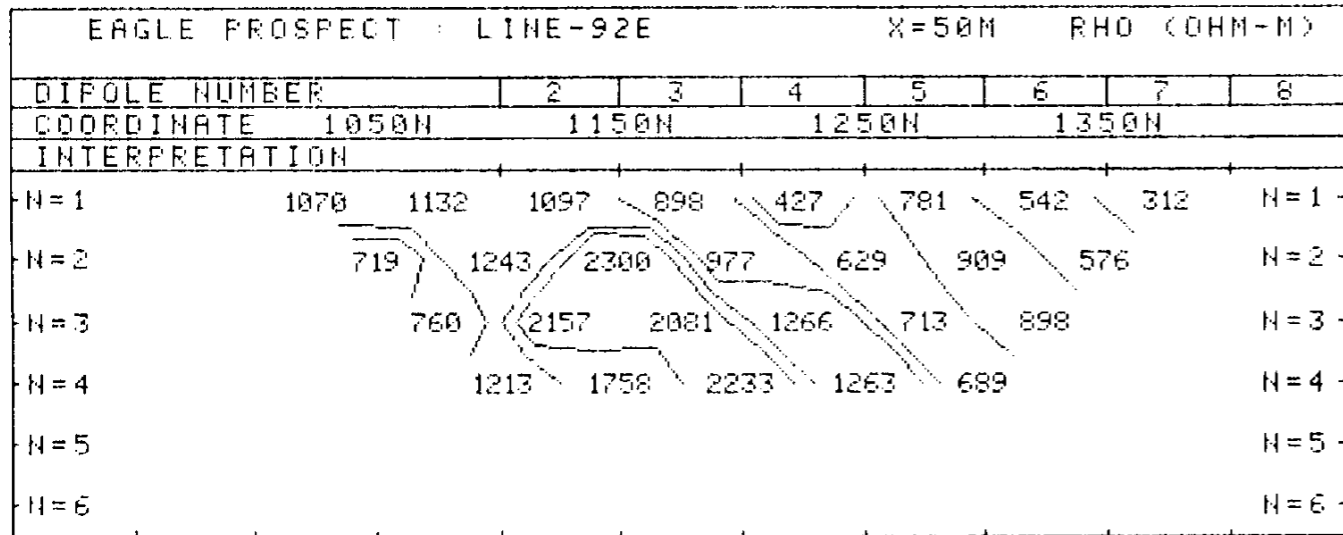
DATE SURVEYED: JULY 1982  
APPROVED \_\_\_\_\_

NOTE - CONTOURS  
AT LOGARITHMIC  
INTERVALS. 1, -1.5  
-2, -3, -5, -7.5, -10

DATE \_\_\_\_\_

## PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION  
AND RESISTIVITY SURVEY



# ESSO MINERALS CANADA

EAGLE PROSPECT

LIARD M.D. / BRITISH COLUMBIA

## GEOLOGICAL BRANCH ASSESSMENT REPORT

LINE NO. 92E

# 10,816

PLOTTING POINT

X=50M

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE   
 PROBABLE   
 POSSIBLE 

FREQUENCY (HERTZ)  
0.25 & 4.0 HZ.

DATE SURVEYED: JULY 1982  
APPROVED \_\_\_\_\_

NOTE- CONTOURS  
AT LOGARITHMIC  
INTERVALS 1, -1.5  
-2, -3, -5, -7.5, -10

DATE \_\_\_\_\_

### PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION  
AND RESISTIVITY SURVEY

EAGLE PROSPECT : LINE-92E									X=50M	RHO (OHM-M)
DIPOLE NUMBER	2	3	4	5	6	7	8			
COORDINATE	2850N	2950N	3050N	3150N						
INTERPRETATION										
N=1	1011	991	2093	2751	2649	2668	2375	1205	N=1	
N=2	2037	1165	2295	2700	2560	2547	1494		N=2	
N=3		2290	1484	2138	2629	2375	1714		N=3	
N=4			2774	1433	1927	2384	1592		N=4	
N=5									N=5	
N=6									N=6	

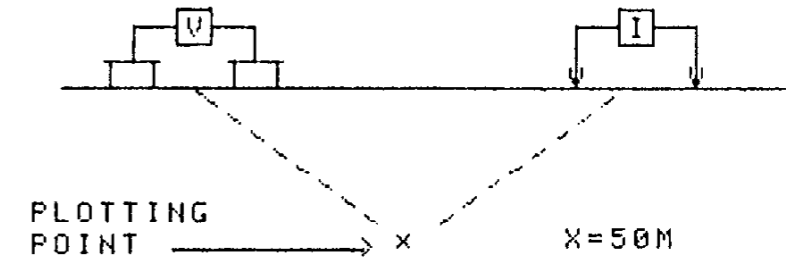
EAGLE PROSPECT : LINE-92E									X=50M	FFE
DIPOLE NUMBER	2	3	4	5	6	7	8			
COORDINATE	2850N	2950N	3050N	3150N						
INTERPRETATION										
N=1	.8	.7	1	1.4	1.1	1.4	.9	1	N=1	
N=2	1	.9	1.3	1	1.5	1.8	.6		N=2	
N=3		1.1	1	1	1.2	1.6	.9		N=3	
N=4			1.4	.7	1	1.2	1.1		N=4	
N=5									N=5	
N=6									N=6	

EAGLE PROSPECT : LINE-92E									X=50M	METAL FACTOR
DIPOLE NUMBER	2	3	4	5	6	7	8			
COORDINATE	2850N	2950N	3050N	3150N						
INTERPRETATION										
N=1	.8	.7	.5	.5	.4	.5	.4	.8	N=1	
N=2	.5	.8	.6	.4	.6	.7	.4		N=2	
N=3		.5	.7	.5	.5	.7	.5		N=3	
N=4			.5	.5	.5	.7			N=4	
N=5									N=5	
N=6									N=6	

# ESSO MINERALS CANADA

## EAGLE PROSPECT GEOLOGICAL BRANCH ASSESSMENT REPORT

LINE NO. -92E  
**10.816**



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE   
 PROBABLE   
 POSSIBLE 

FREQUENCY (HERTZ)  
0.25 & 4.0 HZ.

DATE SURVEYED: JULY 1982  
APPROVED \_\_\_\_\_

NOTE- CONTOURS  
AT LOGARITHMIC  
INTERVALS. 1, -1.5  
-2, -3, -5, -7.5, -10

DATE \_\_\_\_\_

### PHOENIX GEOPHYSICS LTD.

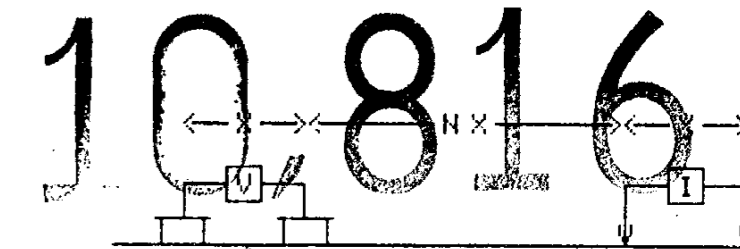
INDUCED POLARIZATION  
AND RESISTIVITY SURVEY

ESSO MINERALS CANADA

EAGLE PROSPECT

LIARD M.D. / BRITISH COLUMBIA

GEOLOGICAL BRANCH  
ASSESSMENT REPORT  
LINE NO. - 92E



PLOTTING POINT X X=50M

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE   
PROBABLE   
POSSIBLE

FREQUENCY (HERTZ) 0.25 & 4.0 HZ. DATE SURVEYED: JULY 1982  
APPROVED \_\_\_\_\_

NOTE- CONTOURS AT LOGARITHMIC INTERVALS 1, -1.5, -2, -3, -5, -7.5, -10 DATE \_\_\_\_\_

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION  
AND RESISTIVITY SURVEY

EAGLE PROSPECT : LINE-92E		X=50M RHO (OHM-M)																													
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
COORDINATE	1450N	1550N	1650N	1750N	1850N	1950N	2050N	2150N	2250N	2350N	2450N	2550N	2650N	2750N	2850N	2950N															
INTERPRETATION																															
N=1	404	732	781	752	505	491	800	1520	1314	1837	2062	1768	2326	2394	2157	2442	2312	2879	1867	2178	1917	2343	1568	1329	1708	1696	1474	1306	1189	1295	
N=2	508	645	920	775	790	447	406	1315	1414	886	1933	2454	2350	2431	2102	2735	2738	2272	2371	2203	2194	2167	1737	1757	2494	2817	1366	1631	1837	2257	1115
N=3	813	832	699	892	787	658	341	599	1316	1001	1007	2334	3207	2530	2119	2864	2714	2841	1978	2791	2458	2751	1862	1798	2803	3499	2050	1306	2007	3125	2199
N=4	1071	1209	840	668	867	627	494	564	637	826	1121	103	2484	3325	2171	2712	2677	2799	2559	2251	3007	2924	2143	1779	2772	3805	2743	1758	1545	2470	3240
N=5																															
N=6																															

EAGLE PROSPECT : LINE-92E		X=50M PFE																													
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
COORDINATE	1450N	1550N	1650N	1750N	1850N	1950N	2050N	2150N	2250N	2350N	2450N	2550N	2650N	2750N	2850N	2950N															
INTERPRETATION																															
N=1	2.2	2.3	2.2	2.4	3.4	3.2	3.7	4.3	4.9	4.9	4.6	2.4	1.5	1.6	1.5	1.1	1.5	1.6	1	1.5	1.2	1.1	1.2	1.2	1.6	1.4	1.1	1	1.1	.6	
N=2	2	2.7	2.5	3.2	2.6	3.2	3.4	4.6	6.2	6	5.2	4.6	1.4	1.6	1.5	1.4	1.2	1.7	1.5	1.4	1.4	.9	1.2	1.3	1.7	1.6	1.5	1	1.3	1.4	.8
N=3	2	2.7	3.1	3.1	3.4	2.5	3	4.1	6.3	6.4	5.2	4.5	3.9	1.6	1.4	1.3	1.4	1.4	1.4	1.3	1.3	1.2	1	1.3	1.8	1.7	1.6	1.2	1.3	1.2	1.3
N=4	2.6	2.6	2.9	3.8	3.7	3.3	2.7	3.7	5.5	6	5.9	4.1	3.2	3.1	1.6	1.5	1.4	1.5	1	1.3	1.3	1.4	1	1.1	1.7	1.7	1.8	1.4	1	1	1
N=5																															
N=6																															

EAGLE PROSPECT : LINE-92E		X=50M METAL FACTOR																													
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
COORDINATE	1450N	1550N	1650N	1750N	1850N	1950N	2050N	2150N	2250N	2350N	2450N	2550N	2650N	2750N	2850N	2950N															
INTERPRETATION																															
N=1	5.4	3.1	2.8	3.2	6.7	6.5	4.2	2.8	3.7	2.7	2.2	1.4	.6	.7	.7	.5	.6	.6	.5	.7	.6	.5	.8	.9	.9	.8	.7	.8	.9	.5	
N=2	3.9	4.2	2.7	4.1	3.3	7.2	8.4	3.5	4.4	6.8	2.7	1.9	.6	.7	.7	.5	.4	.7	.6	.6	.6	.4	.7	.7	.7	.6	1.1	.6	.7	.6	.7
N=3	2.5	3.2	4.4	3.5	4.3	3.8	8.8	6.8	4.8	6.4	5.2	1.9	1.2	.6	.7	.5	.5	.5	.7	.5	.5	.4	.5	.7	.6	.5	.8	.9	.6	.4	.6
N=4	2.4	2.2	3.5	5.7	4.3	5.3	5.5	6.6	8.6	7.3	5.3	3.4	1.3	.9	.7	.6	.5	.5	.4	.6	.4	.5	.5	.6	.6	.4	.7	.8	.6	.4	.3
N=5																															
N=6																															

EAGLE PROSPECT : LINE-92E												X=50M RHO (OHM-M)	
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12		
COORDINATE	3200N	3300N	3400N	3500N	3600N	3700N							
INTERPRETATION													
N=1	1190	1207	1326	1775	2338	2036	2150	2437	1731	1693			N=1
N=2	1479	1570	1321	1145	2417	2213	2664	2663	1823	2347	2915	N=2	
N=3	1908	2078	1602	1263	1531	2565	2864	2975	2206	2285	3100	3584	N=3
N=4	2721	2063	1535	1632	1510	3135	3015	2359	2544	2660	3469	N=4	
N=5												N=5	
N=6												N=6	

EAGLE PROSPECT : LINE-92E												X=50M PFE	
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12		
COORDINATE	3200N	3300N	3400N	3500N	3600N	3700N							
INTERPRETATION													
N=1	1	.8	1	1.4	1.1	1	1.1	1.1	1.3	1			N=1
N=2	1	1.4	1	1.4	1.4	1.5	1.2	1.2	1	1.2	1.1	N=2	
N=3	.8	1	1.2	1.2	1.1	1.3	1.4	1.1	1.3	1.2	1.2	1	N=3
N=4	1	1.1	1.5	.9	1.2	1.4	1.5	1.2	.9	1.2	1	N=4	
N=5												N=5	
N=6												N=6	

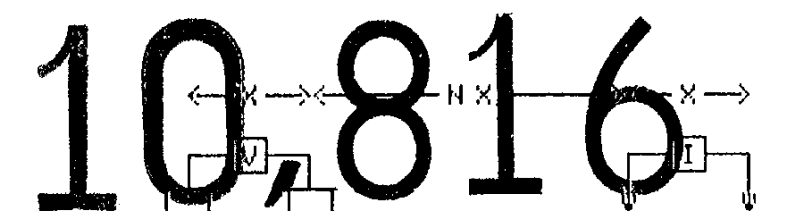
EAGLE PROSPECT : LINE-92E												X=50M METAL FACTOR	
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12		
COORDINATE	3200N	3300N	3400N	3500N	3600N	3700N							
INTERPRETATION													
N=1	.8	.7	.8	.8	.5	.5	.5	.5	.8	.6			N=1
N=2	.7	.9	.8	1.2	.6	.7	.5	.5	.5	.5	.4	N=2	
N=3	.4	.5	.7	1	.7	.5	.5	.4	.6	.5	.4	.3	N=3
N=4	.4	.5	1	.6	.8	.4	.5	.5	.4	.5	.3	N=4	
N=5												N=5	
N=6												N=6	

# ESSO MINERALS CANADA

EAGLE PROSPECT

LIARD M.D. / BRITISH COLUMBIA

## GEOLOGICAL BRANCH ASSESSMENT REPORT



PLOTTING POINT X X=50M

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE

PROBABLE

POSSIBLE

FREQUENCY (HERTZ)  
0.25 & 4.0 HZ.

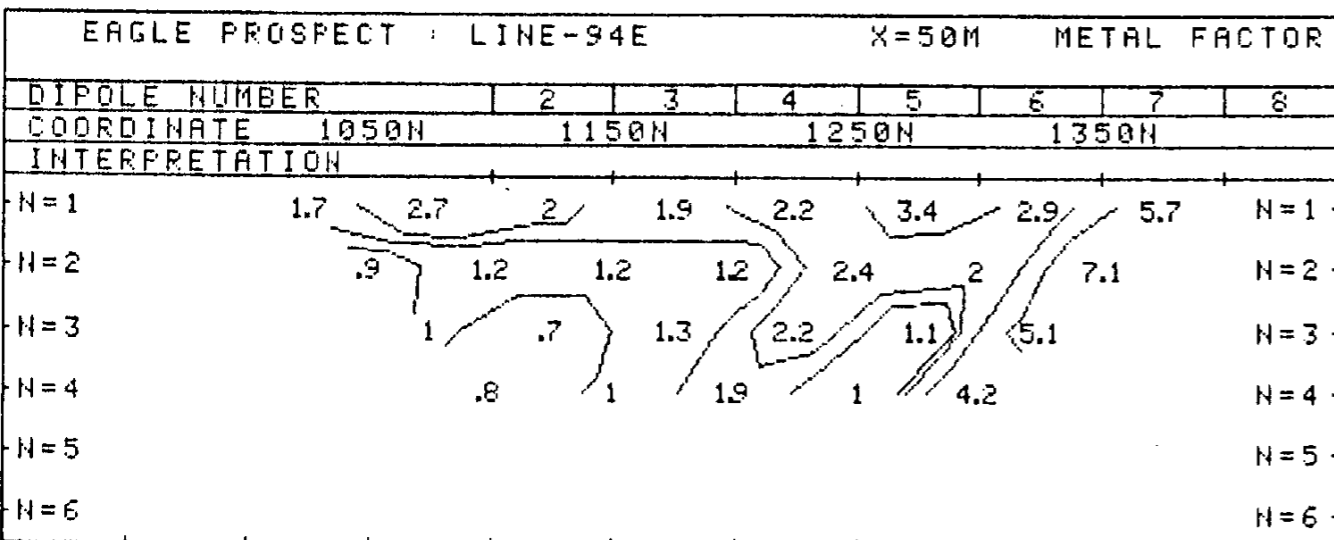
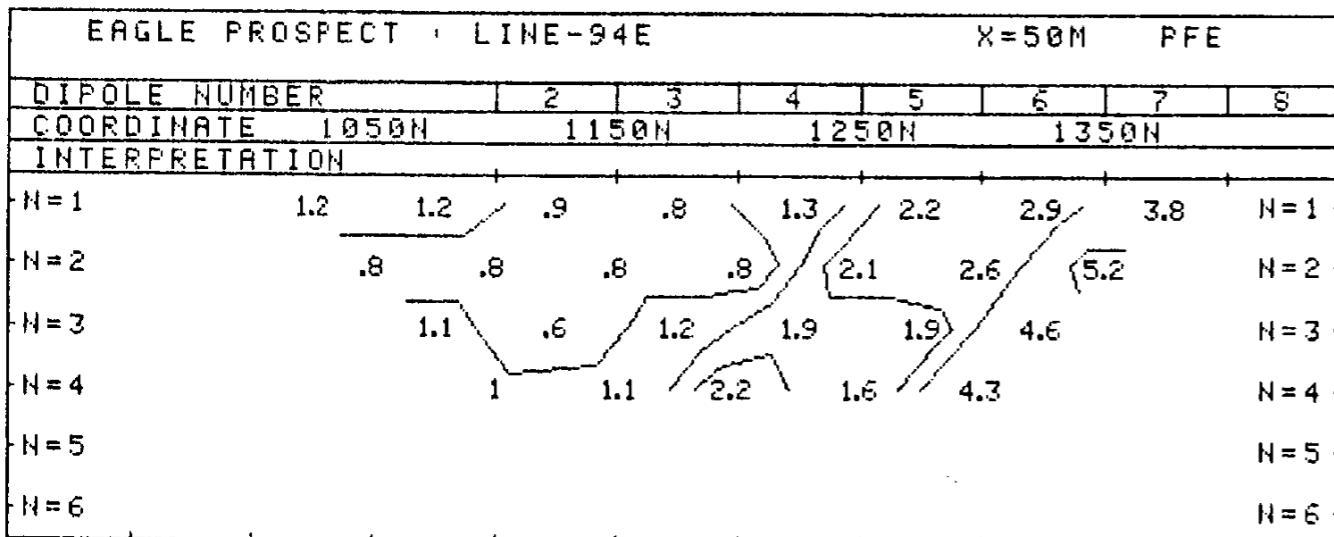
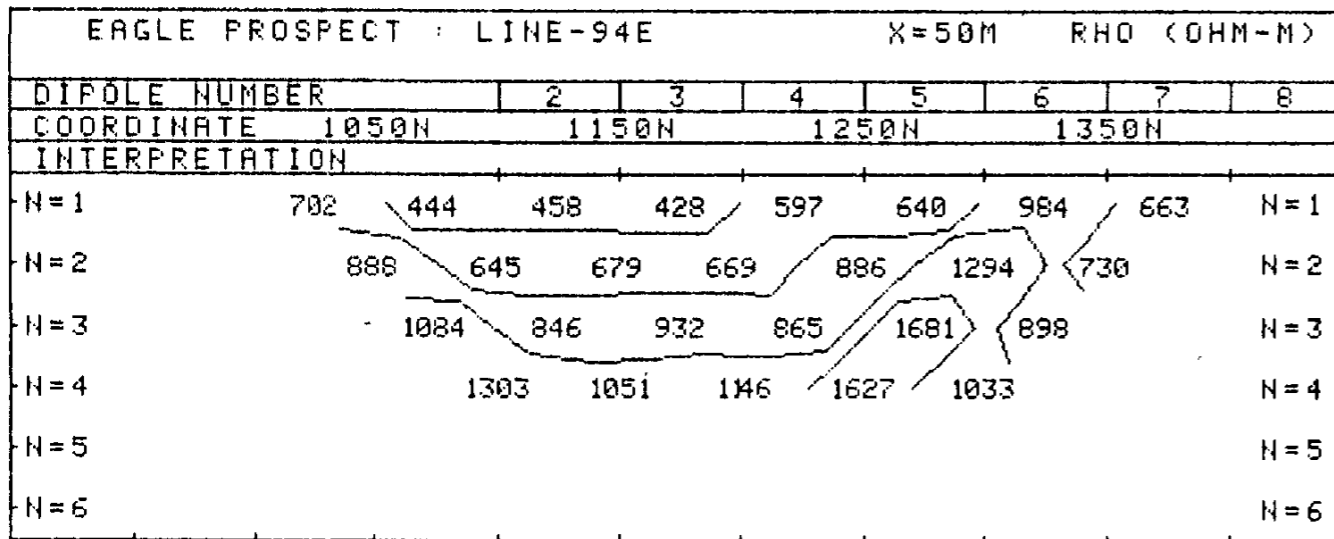
DATE SURVEYED: JULY 1982  
APPROVED

NOTE - CONTOURS  
AT LOGARITHMIC  
INTERVALS: 1, -1.5  
-2, -3, -5, -7.5, -10

DATE \_\_\_\_\_

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION  
AND RESISTIVITY SURVEY



# ESSO MINERALS CANADA



## EAGLE PROSPECT GEOLOGICAL BRANCH ASSESSMENT REPORT

LINE NO. -94E  
**10,816**



PLOTTING POINT → x X=50M

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE   
 PROBABLE   
 POSSIBLE 

FREQUENCY (HERTZ)  
0.25 & 4.0 HZ.

DATE SURVEYED: JULY 1982  
APPROVED \_\_\_\_\_

NOTE- CONTOURS  
AT LOGARITHMIC  
INTERVALS. 1, -1.5  
-2, -3, -5, -7.5, -10

DATE \_\_\_\_\_

### PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION  
AND RESISTIVITY SURVEY



EAGLE PROSPECT : LINE-94E		X=50M RHO (OHM-M)							
DIPOLE NUMBER	2	3	4	5	6	7	8		
COORDINATE	2850N	2950N	3050N	3150N					
INTERPRETATION									
N=1	1024	753	1150	3924	1663	1963	2549	1736	N=1
N=2	1817	1525	2258	2865	1881	1742	2588		N=2
N=3		3108	2660	1928	2558	1610	1609		N=3
N=4		4791	2451	1580	1939	1409			N=4
N=5									N=5
N=6									N=6

EAGLE PROSPECT : LINE-94E		X=50M PFE							
DIPOLE NUMBER	2	3	4	5	6	7	8		
COORDINATE	2850N	2950N	3050N	3150N					
INTERPRETATION									
N=1	1.2	.8	.8	1.3	1.1	1.1	1.4	.8	N=1
N=2	1.4	.7	1.1	1.4	1	1.3	1.3		N=2
N=3		1.6	1	1.1	1.2	1.4	1.1		N=3
N=4		1.6	1	.9	1.1	1.1			N=4
N=5									N=5
N=6									N=6

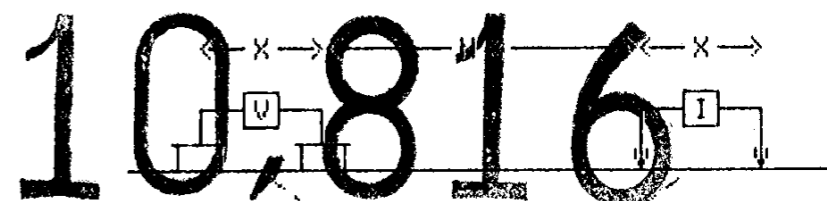
EAGLE PROSPECT : LINE-94E		X=50M METAL FACTOR							
DIPOLE NUMBER	2	3	4	5	6	7	8		
COORDINATE	2850N	2950N	3050N	3150N					
INTERPRETATION									
N=1	1.2	1.1	.7	.3	.7	.6	.5	.5	N=1
N=2	.8	.5	.5	.5	.5	.7	.5		N=2
N=3		.5	.4	.6	.5	.9	.7		N=3
N=4		.3	.4	.6	.6	.8			N=4
N=5									N=5
N=6									N=6

# ESSO MINERALS CANADA

EAGLE PROSPECT


LIARD M.D. / BRITISH COLUMBIA

## GEOLOGICAL BRANCH ASSESSMENT REPORT



PLOTING POINT x X=50M

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE   
 PROBABLE   
 POSSIBLE 

FREQUENCY (HERTZ)  
0.25 & 4.0 HZ.

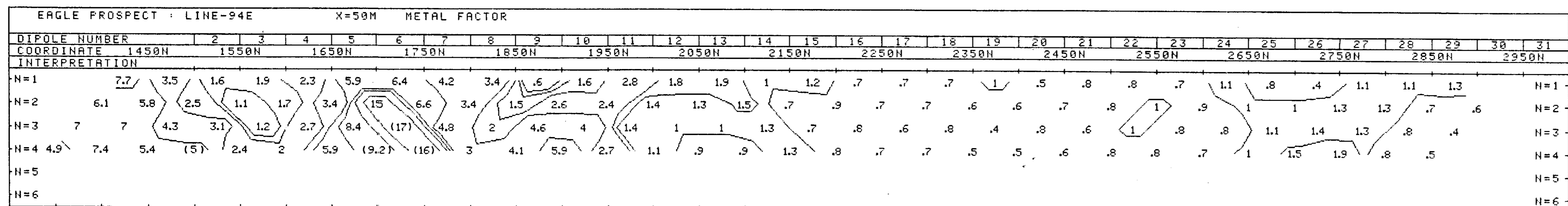
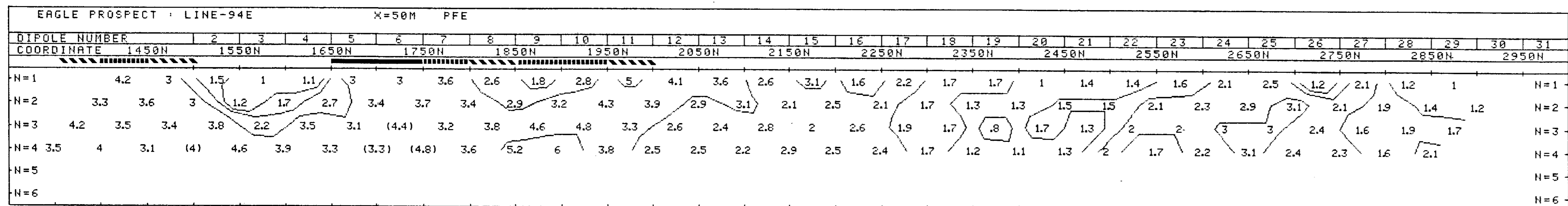
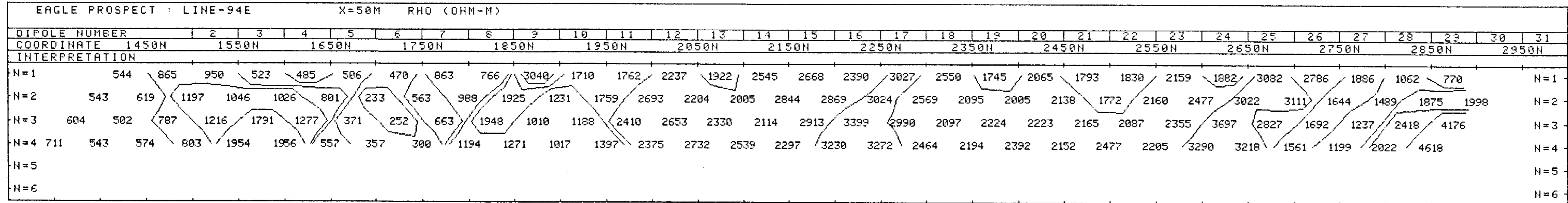
DATE SURVEYED: JULY 1982  
APPROVED \_\_\_\_\_

NOTE- CONTOURS  
AT LOGARITHMIC  
INTERVALS. 1, -1.5  
-2, -3, -5, -7.5, -10

DATE \_\_\_\_\_

## PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION  
AND RESISTIVITY SURVEY



ESSO MINERALS CANADA  
 EAGLE PROSPECT  
 LIARD M.D. / BRITISH COLUMBIA  
 GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

10,816

PLOTTING POINT X X=50M

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE  
 PROBABLE  
 POSSIBLE

FREQUENCY (HERTZ) 0.25 & 4.0 HZ. DATE SURVEYED: JULY 1982  
 APPROVED  
 NOTE- CONTOURS AT LOGARITHMIC INTERVALS: 1, -1.5, -2, -3, -5, -7.5, -10  
 DATE

PHOENIX GEOPHYSICS LTD.  
 INDUCED POLARIZATION  
 AND RESISTIVITY SURVEY

EAGLE PROSPECT : LINE-96E		X=50M				RHO (OHM-M)			
DIPOLE NUMBER	2	3	4	5	6	7	8		
COORDINATE	1050N	1150N	1250N	1350N					
INTERPRETATION									
N=1	395	663	758	1434	1144	1900	1938	910	N=1
N=2	888	1096	1464	1560	1347	1449	1725		N=2
N=3		1144	1718	1657	1500	1092	1269		N=3
N=4		1591	1891	1433	1710	699			N=4
N=5									N=5
N=6									N=6

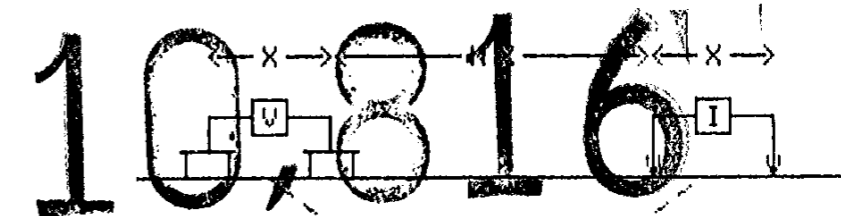
EAGLE PROSPECT : LINE-96E		X=50M				PFE			
DIPOLE NUMBER	2	3	4	5	6	7	8		
COORDINATE	1050N	1150N	1250N	1350N					
INTERPRETATION									
N=1	.9	.8	.8	1.3	1.3	2.1	3.6	4.9	N=1
N=2	.6	.7	1.1	1.4	1.8	3.4	3.8		N=2
N=3		.9	1	1.1	1.7	2.5	2.7		N=3
N=4		.9	1.4	1.6	2.6	2.3			N=4
N=5									N=5
N=6									N=6

EAGLE PROSPECT : LINE-96E		X=50M				METAL FACTOR			
DIPOLE NUMBER	2	3	4	5	6	7	8		
COORDINATE	1050N	1150N	1250N	1350N					
INTERPRETATION									
N=1	2.3	1.2	1.1	.9	1.1	1.1	1.9	5.4	N=1
N=2	.7	.6	.8	.9	1.3	2.3	2.2		N=2
N=3		.8	.6	.7	1.1	2.3	2.1		N=3
N=4		.6	.7	1.1	1.5	2.6			N=4
N=5									N=5
N=6									N=6

# ESSO MINERALS CANADA

EAGLE PROSPECT  
LIARD M.D. / BRITISH COLUMBIA

## GEOLOGICAL AND GEOPHYSICAL ASSESSMENT REPORT



PLOTTING POINT X X=50M

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE   
 PROBABLE   
 POSSIBLE 

FREQUENCY (HERTZ)  
0.25 & 4.0 HZ.

DATE SURVEYED: JULY 1982  
APPROVED \_\_\_\_\_

NOTE - CONTOURS  
AT LOGARITHMIC  
INTERVALS: 1, -1.5  
-2, -3, -5, -7.5, -10

DATE \_\_\_\_\_

## PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION  
AND RESISTIVITY SURVEY

EAGLE PROSPECT : LINE-94E										X=50M RHO (OHM-M)	
DIPOLE NUMBER	2	3	4	5	6	7	8	9			
COORDINATE	3200N	3300N	3400N	3500N	3500N	3500N	3600N	3600N			
INTERPRETATION											
N=1	1720	1263	1457	1473	1874	2180	3464	1786	2960	N=1	
N=2	2134	1431	1397	2058	3072	1573	2304	2992	2368	N=2	
N=3	1900	1793	1514	1944	3659	2323	2090	2162	3618	N=3	
N=4	1544	1799	1936	3323	2730	3230	1972	2570		N=4	
N=5										N=5	
N=6										N=6	

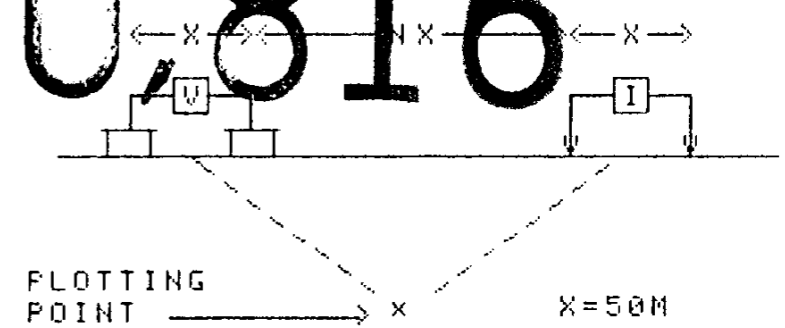
EAGLE PROSPECT : LINE-94E										X=50M PFE	
DIPOLE NUMBER	2	3	4	5	6	7	8	9			
COORDINATE	3200N	3300N	3400N	3500N	3500N	3500N	3600N	3600N			
INTERPRETATION											
N=1	1.2	1.1	1.2	1.2	1.2	1.4	1.3	.6	.9	N=1	
N=2	1.3	1.1	1.4	1.4	1.5	1.1	1.4	1.4	1.2	N=2	
N=3	1.4	1.4	1.2	1.4	1.4	1.4	1.3	1.4	1.4	N=3	
N=4	1.2	1.6	1.5	1.5	1.3	1.5	1.2	1.4		N=4	
N=5										N=5	
N=6										N=6	

EAGLE PROSPECT : LINE-94E										X=50M METAL FACTOR	
DIPOLE NUMBER	2	3	4	5	6	7	8	9			
COORDINATE	3200N	3300N	3400N	3500N	3500N	3500N	3600N	3600N			
INTERPRETATION											
N=1	.7	.9	.8	.8	.6	.6	.4	.3	.3	N=1	
N=2	.6	.8	1	.7	.5	.7	.6	.5	.5	N=2	
N=3	.7	.8	.8	.7	.4	.6	.6	.6	.4	N=3	
N=4	.8	.9	.8	.5	.5	.5	.6	.5		N=4	
N=5										N=5	
N=6										N=6	

# ESSO MINERALS CANADA

EAGLE PROSPECT  
 LIARD M.D. / BRITISH COLUMBIA  
 GEOLOGICAL BRANCH  
 ASSESSMENT REPORT  
 LINE NO. -94E

# 10,816



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE

PROBABLE

POSSIBLE

FREQUENCY (HERTZ)  
 0.25 & 4.0 HZ.

DATE SURVEYED: JULY 1982  
 APPROVED \_\_\_\_\_

NOTE - CONTOURS  
 AT LOGARITHMIC  
 INTERVALS: 1, -1.5  
 -2, -3, -5, -7.5, -10

DATE \_\_\_\_\_

## PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION  
 AND RESISTIVITY SURVEY

EAGLE PROSPECT : LINE-96E										X=50M		RHO (OHM-M)	
DIPOLE NUMBER	2	3	4	5	6	7	8						
COORDINATE	2850N	2950N	3050N	3150N									
INTERPRETATION													
N=1	566	576	741	1952	1794	2253	2605	1024			N=1		
N=2	898	941	1515	1476	1809	3279	1463				N=2		
N=3	1350	1797	966	1497	2394	2470					N=3		
N=4	2409	1084	857	1896	1949						N=4		
N=5											N=5		
N=6											N=6		

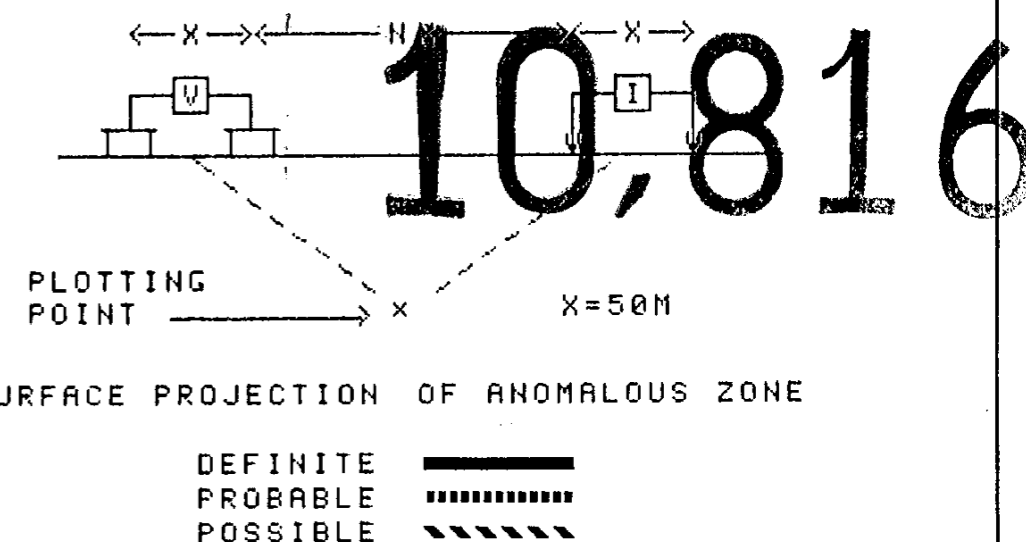
EAGLE PROSPECT : LINE-96E										X=50M		PFE	
DIPOLE NUMBER	2	3	4	5	6	7	8						
COORDINATE	2850N	2950N	3050N	3150N									
INTERPRETATION													
N=1	1	1.1	.8	.9	1.3	1.3	1.2	.6			N=1		
N=2	1	1.1	.9	1.2	1	1.2	1				N=2		
N=3	1.1	1.2	1	.8	1.2	1.4					N=3		
N=4	1.3	1.2	1	1	1.3						N=4		
N=5											N=5		
N=6											N=6		

EAGLE PROSPECT : LINE-96E										X=50M		METAL FACTOR	
DIPOLE NUMBER	2	3	4	5	6	7	8						
COORDINATE	2850N	2950N	3050N	3150N									
INTERPRETATION													
N=1	1.8	1.9	1.1	.5	.7	.6	.5	.6			N=1		
N=2	1.1	1.2	.6	.8	.6	.4	.7				N=2		
N=3	.8	.7	1	.5	.5	.6					N=3		
N=4	.5	1.1	1.2	.5	.7						N=4		
N=5											N=5		
N=6											N=6		

# ESSO MINERALS CANADA

EAGLE PROSPECT  
LIARD M.D. / BRITISH COLUMBIA

LINE NO. -96E  
**GEOLOGICAL BRANCH**  
**ASSESSMENT REPORT**



FREQUENCY (HERTZ)  
0.25 & 4.0 HZ.

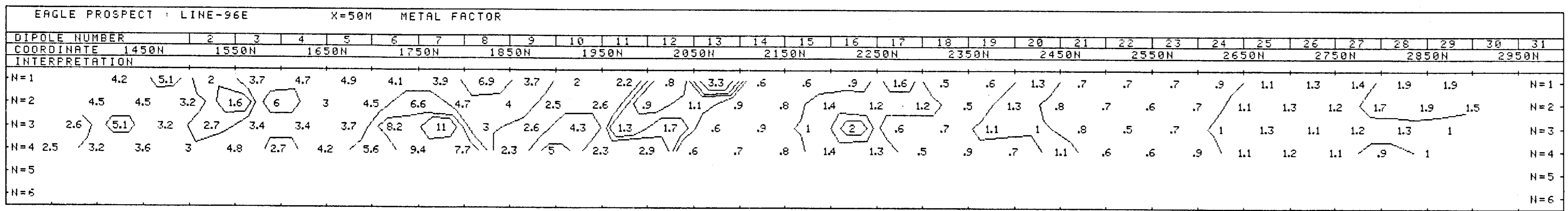
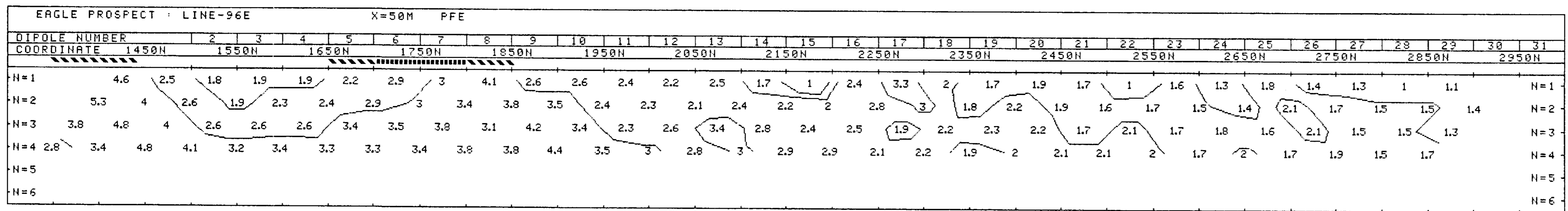
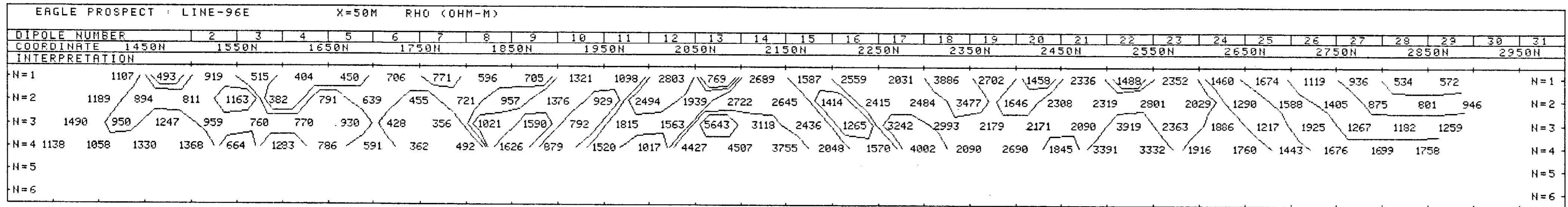
DATE SURVEYED: JULY 1982  
APPROVED

NOTE- CONTOURS  
AT LOGARITHMIC  
INTERVALS. 1, -1.5  
-2, -3, -5, -7.5, -10

DATE \_\_\_\_\_

**PHOENIX GEOPHYSICS LTD.**

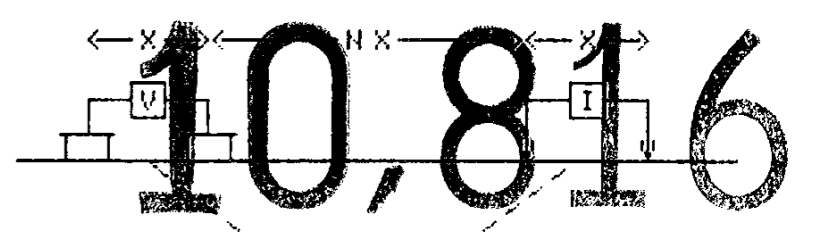
INDUCED POLARIZATION  
AND RESISTIVITY SURVEY



ESSO MINERALS CANADA

EAGLE PROSPECT  
LIARD M.D. / BRITISH COLUMBIA

LINE NO. -96E  
GEOLOGICAL BRANCH  
ASSESSMENT REPORT



PLOTTING POINT X X=50M

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE

PROBABLE

POSSIBLE

FREQUENCY (HERTZ) 0.25 & 4.0 HZ. DATE SURVEYED: JULY 1982 APPROVED

NOTE- CONTOURS AT LOGARITHMIC INTERVALS: 1, -1.5, -2, -3, -5, -7.5, -10 DATE \_\_\_\_\_

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION AND RESISTIVITY SURVEY

EAGLE PROSPECT : LINE-98E		X=50M RHO (OHM-M)							
DIPOLE NUMBER	2	3	4	5	6	7	8		
COORDINATE	1050N	1150N	1250N	1350N					
INTERPRETATION									
N=1	505	468	564	1108	897	1124	965	891	N=1
N=2	596	822	1055	1026	891	1688	1219		N=2
N=3	864	1245	993	988	1275	1805			N=3
N=4	1166	1103	1003	1269	1270				N=4
N=5									N=5
N=6									N=6

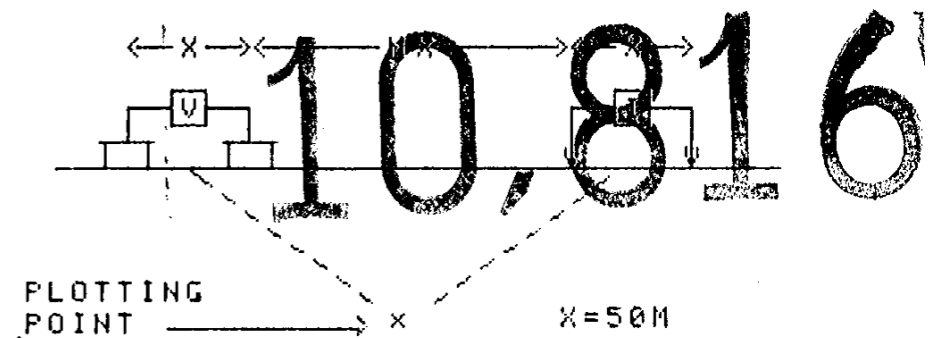
EAGLE PROSPECT : LINE-98E		X=50M PFE							
DIPOLE NUMBER	2	3	4	5	6	7	8		
COORDINATE	1050N	1150N	1250N	1350N					
INTERPRETATION									
N=1	1	1.3	1.5	1.6	1.2	1.8	1.5	2.2	N=1
N=2	.9	1.3	1.5	1.3	1.4	2.2	2.5		N=2
N=3	1	1.5	1.5	1.8	1.8	2.6			N=3
N=4	1.6	1.4	1.9	1.8	2.4				N=4
N=5									N=5
N=6									N=6

EAGLE PROSPECT : LINE-98E		X=50M METAL FACTOR							
DIPOLE NUMBER	2	3	4	5	6	7	8		
COORDINATE	1050N	1150N	1250N	1350N					
INTERPRETATION									
N=1	2	2.8	2.7	1.4	1.3	1.6	1.6	2.5	N=1
N=2	1.5	1.6	1.4	1.3	1.6	1.3	2.1		N=2
N=3	1.2	1.2	1.5	1.8	1.4	1.4			N=3
N=4	1.4	1.3	1.9	1.4	1.9				N=4
N=5									N=5
N=6									N=6

# ESSO MINERALS CANADA

EAGLE PROSPECT  
LIARD M.D. / BRITISH COLUMBIA

## LINE NO. -98E GEOLOGICAL BRANCH ASSESSMENT REPORT



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE   
 PROBABLE   
 POSSIBLE 

FREQUENCY (HERTZ)  
0.25 & 4.0 HZ.

DATE SURVEYED: JULY 1982  
APPROVED \_\_\_\_\_

NOTE- CONTOURS  
AT LOGARITHMIC  
INTERVALS. 1, -1.5  
-2, -3, -5, -7.5, -10

DATE \_\_\_\_\_

### PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION  
AND RESISTIVITY SURVEY

EAGLE PROSPECT : LINE-96E		X=50M RHO (OHM-M)					
DIPOLE NUMBER	2	3	4	5	6	7	8
COORDINATE	3200N	3300N	3400N	3500N			
INTERPRETATION							
N=1	1919	1339	1927	1900	1577	1060	N=1
N=2	1573	1443	2115	2145	1557	2142	N=2
N=3	2337	1530	2227	2204	1674	1866	N=3
N=4	2261	2296	2196	1723	1851		N=4
N=5							N=5
N=6							N=6

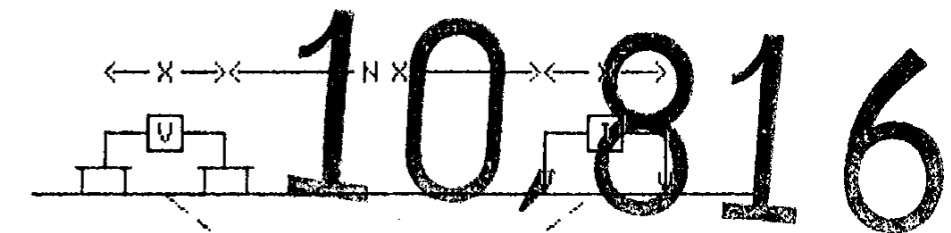
EAGLE PROSPECT : LINE-96E		X=50M PFE					
DIPOLE NUMBER	2	3	4	5	6	7	8
COORDINATE	3200N	3300N	3400N	3500N			
INTERPRETATION							
N=1	.9	1.4	1.4	1.8	1.5	.9	N=1
N=2	1	1.3	1.6	1.7	1.5	1.5	N=2
N=3	1.3	1.5	1.2	1.8	1.4	1.4	N=3
N=4	1.6	1.5	1.7	1.6	1.3		N=4
N=5							N=5
N=6							N=6

EAGLE PROSPECT : LINE-96E		X=50M METAL FACTOR					
DIPOLE NUMBER	2	3	4	5	6	7	8
COORDINATE	3200N	3300N	3400N	3500N			
INTERPRETATION							
N=1	.5	1	.7	.9	1	.8	N=1
N=2	.6	.9	.8	.8	1	.7	N=2
N=3	.6	1	.5	.8	.8	.8	N=3
N=4	.7	.7	.8	.9	.7		N=4
N=5							N=5
N=6							N=6

# ESSO MINERALS CANADA

EAGLE PROSPECT  
LIARD M.D. / BRITISH COLUMBIA

**GEOLOGICAL BRANCH**  
ASSESSMENT REPORT



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE   
PROBABLE   
POSSIBLE 

FREQUENCY (HERTZ)  
0.25 & 4.0 HZ.

DATE SURVEYED: JULY 1982

APPROVED \_\_\_\_\_

NOTE- CONTOURS  
AT LOGARITHMIC  
INTERVALS: 1, -1.5  
-2, -3, -5, -7.5, -10

DATE \_\_\_\_\_

## PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION  
AND RESISTIVITY SURVEY



EAGLE PROSPECT : LINE-98E										X=50M		RHO (OHM-M)		
DIPOLE NUMBER		2	3	4	5	6	7	8						
COORDINATE		2850N	2950N	3050N	3150N									
INTERPRETATION														
N=1		912	1332	999	4529	1440	2806	1489	1266	N=1				
N=2		1680	856	2111	3880	1193	1375	1692	N=2					
N=3			867	2000	2038	2969	762	1780	N=3					
N=4			1914	2057	1643	1797	936	N=4						
N=5												N=5		
N=6												N=6		

EAGLE PROSPECT : LINE-98E										X=50M		PFE		
DIPOLE NUMBER		2	3	4	5	6	7	8						
COORDINATE		2850N	2950N	3050N	3150N									
INTERPRETATION														
N=1		1.6	1.1	.8	1.2	1.2	1.2	1.3	1.1	N=1				
N=2		1.9	1	1	1.4	1	1.3	1.5	N=2					
N=3			1.7	1.2	1.3	1.3	1	1.3	N=3					
N=4			2	1.3	1.2	1.3	1.2	N=4						
N=5												N=5		
N=6												N=6		

EAGLE PROSPECT : LINE-98E										X=50M		METAL FACTOR		
DIPOLE NUMBER		2	3	4	5	6	7	8						
COORDINATE		2850N	2950N	3050N	3150N									
INTERPRETATION														
N=1		1.8	.8	.8	.3	.8	.4	.9	.9	N=1				
N=2		1.1	1.2	.5	.4	.8	.9	.9	N=2					
N=3			2	.6	.6	.4	1.3	.7	N=3					
N=4			1	.6	.7	.7	1.3	N=4						
N=5												N=5		
N=6												N=6		

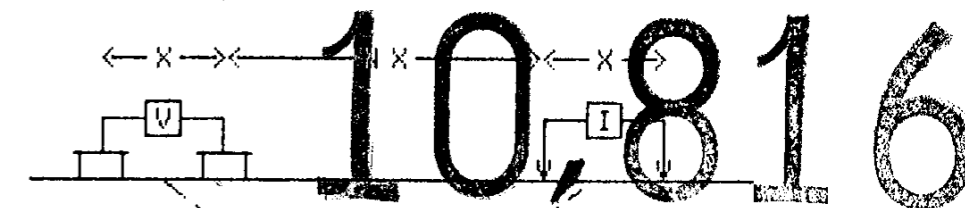
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# ESSO MINERALS CANADA

EAGLE PROSPECT

LIARD M.D. / BRITISH COLUMBIA

## GEOLOGICAL BRANCH ASSESSMENT REPORT



PLOTTING POINT

X=50M

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE   
 PROBABLE   
 POSSIBLE 

FREQUENCY (HERTZ)  
0.25 & 4.0 HZ.

DATE SURVEYED: JULY 1982  
APPROVED \_\_\_\_\_

NOTE - CONTOURS  
AT LOGARITHMIC  
INTERVALS. 1, -1.5  
-2, -3, -5, -7.5, -10

DATE \_\_\_\_\_

PHOENIX GEOPHYSICS LTD.

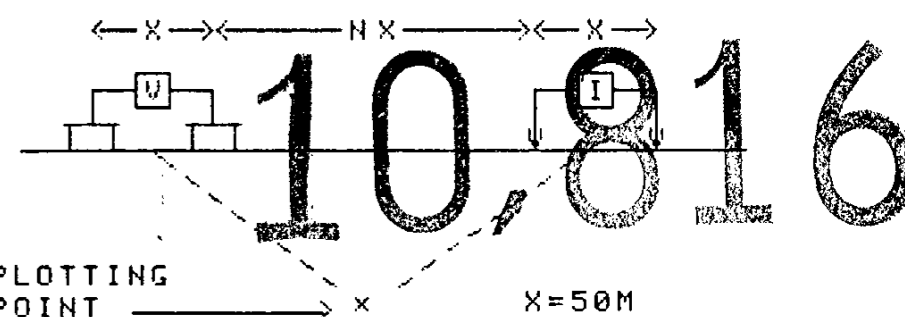
INDUCED POLARIZATION  
AND RESISTIVITY SURVEY

# ESSO MINERALS CANADA

EAGLE PROSPECT  
LIARD M.D. / BRITISH COLUMBIA

LINE NO. -98E

## GEOLOGICAL BRANCH ASSESSMENT REPORT



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE   
 PROBABLE   
 POSSIBLE 

FREQUENCY (HERTZ)  
0.25 & 4.0 HZ.

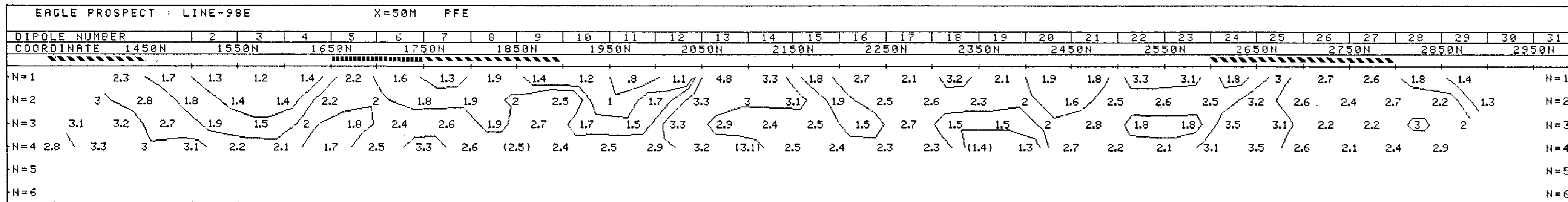
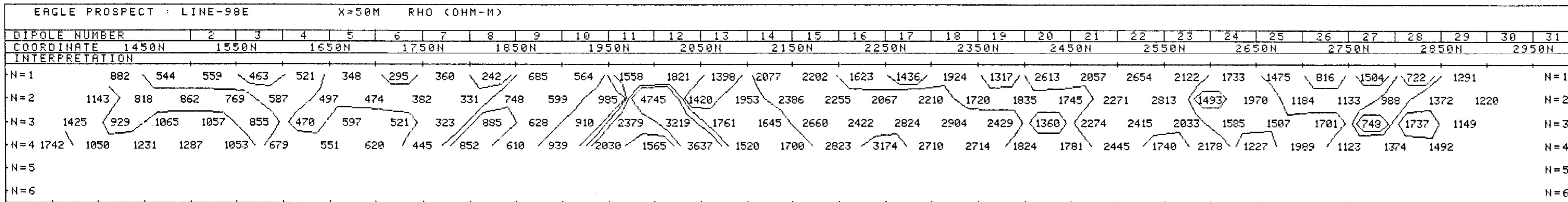
DATE SURVEYED: JULY 1982  
APPROVED

NOTE- CONTOURS  
AT LOGARITHMIC  
INTERVALS. 1.-1.5  
-2,-3,-5,-7.5,-10

DATE \_\_\_\_\_

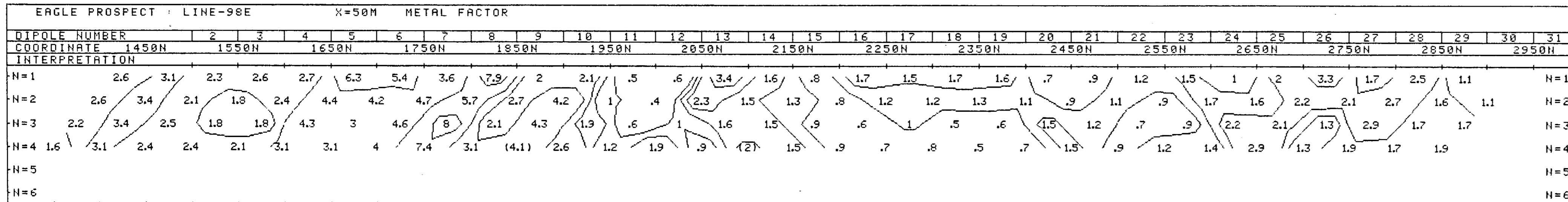
### PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION  
AND RESISTIVITY SURVEY



TOPOGRAPHY

|| STREAM



EAGLE PROSPECT : LINE-98E												X=50M RHO (OHM-M)			
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12				
COORDINATE	3200N	3300N	3400N	3500N	3600N	3700N									
INTERPRETATION															
N=1	1303	1188	2573	2796	3889	3622	2870	2945	3117	3468			N=1		
N=2	1661	1603	1541	3225	3832	3913	2782	3246	3100	3281	2784			N=2	
N=3	1660	1924	2098	1935	3177	3393	2969	3463	3444	3440	2580	3301			N=3
N=4	1837	2608	2527	1998	2796	2464	3487	3851	3909	2685	3010			N=4	
N=5												N=5			
N=6												N=6			

EAGLE PROSPECT : LINE-98E												X=50M PFE			
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12				
COORDINATE	3200N	3300N	3400N	3500N	3600N	3700N									
INTERPRETATION															
N=1	1.5	1.5	1.3	1.5	1.6	1.7	1.6	1.5	1.6	1.2			N=1		
N=2	1.4	1.4	1.8	1.7	1.8	1.6	1.9	1.7	1.6	1.6	1.2			N=2	
N=3	1.6	1.7	1.2	1.5	1.8	1.5	1.7	1.7	1.8	1.6	1.5	1.2			N=3
N=4	2	1.6	1.4	1.8	1.7	1.7	1.6	1.4	1.7	1.5	1.6			N=4	
N=5												N=5			
N=6												N=6			

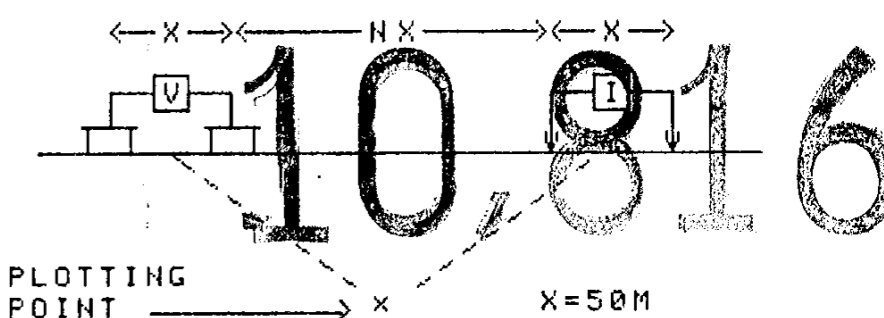
EAGLE PROSPECT : LINE-98E												X=50M METAL FACTOR			
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12				
COORDINATE	3200N	3300N	3400N	3500N	3600N	3700N									
INTERPRETATION															
N=1	1.2	1.3	.5	.5	.4	.5	.6	.5	.5	.3			N=1		
N=2	.8	.9	1.2	.5	.5	.4	.7	.5	.5	.5	.4			N=2	
N=3	1	.9	.6	.8	.6	.4	.6	.5	.5	.5	.6	.4			N=3
N=4	1.1	.6	.6	.9	.6	.7	.5	.4	.4	.6	.5			N=4	
N=5												N=5			
N=6												N=6			

# ESSO MINERALS CANADA

EAGLE PROSPECT  
LIARD M.D. / BRITISH COLUMBIA

LINE NO. -98E

## GEOLOGICAL BRANCH ASSESSMENT REPORT



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE   
 PROBABLE   
 POSSIBLE 

FREQUENCY (HERTZ)  
0.25 & 4.0 HZ.

DATE SURVEYED: JULY 1982  
APPROVED \_\_\_\_\_

NOTE- CONTOURS  
AT LOGARITHMIC  
INTERVALS: 1, -1.5  
-2, -3, -5, -7.5, -10

DATE \_\_\_\_\_

### PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION  
AND RESISTIVITY SURVEY

EAGLE PROSPECT : LINE-100E										X=50M		RHO (OHM-M)	
DIPOLE NUMBER		2	3	4	5	6	7	8					
COORDINATE		1050N	1150N	1250N	1350N								
INTERPRETATION													
N=1		746	528	372	356	423	334	384	410		N=1		
N=2		708	665	470	472	647	543	415			N=2		
N=3		897	646	557	682	910	575				N=3		
N=4			982	855	760	872	913				N=4		
N=5											N=5		
N=6											N=6		

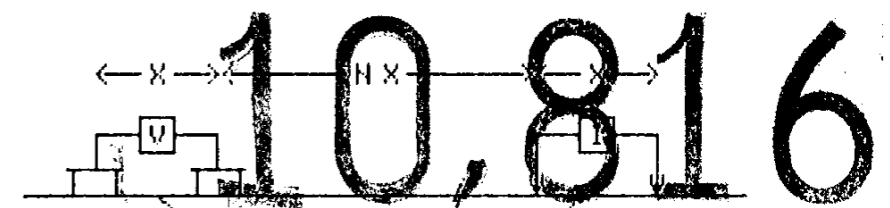
EAGLE PROSPECT : LINE-100E										X=50M		PFE	
DIPOLE NUMBER		2	3	4	5	6	7	8					
COORDINATE		1050N	1150N	1250N	1350N								
INTERPRETATION													
N=1		1.5	2.1	2.6	2.2	1.3	1.5	1.4	1.8		N=1		
N=2		2	1.9	1.8	1.3	1.5	1.8	1.3			N=2		
N=3			1.7	1.8	2.1	1.3	1.4	1.9			N=3		
N=4			1.5	1.7	1.9	1.6	1.4				N=4		
N=5											N=5		
N=6											N=6		

EAGLE PROSPECT : LINE-100E										X=50M		METAL FACTOR	
DIPOLE NUMBER		2	3	4	5	6	7	8					
COORDINATE		1050N	1150N	1250N	1350N								
INTERPRETATION													
N=1		2	4	7	6.2	3.1	4.5	3.6	4.4		N=1		
N=2		2.8	2.9	3.8	2.8	2.3	3.3	3.1			N=2		
N=3			1.9	2.8	3.8	1.9	1.5	3.3			N=3		
N=4			1.5	2	2.5	1.8	1.5				N=4		
N=5											N=5		
N=6											N=6		

# ESSO MINERALS CANADA

EAGLE PROSPECT  
LIARD M.D. / BRITISH COLUMBIA

## GEOLOGICAL BRANCH ASSESSMENT REPORT



PLOTTING POINT → x X=50M

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE   
PROBABLE   
POSSIBLE

FREQUENCY (HERTZ)  
0.25 & 4.0 HZ.

DATE SURVEYED: JULY 1982  
APPROVED \_\_\_\_\_

NOTE- CONTOURS  
AT LOGARITHMIC  
INTERVALS. 1, -1.5  
-2, -3, -5, -7.5, -10

DATE \_\_\_\_\_

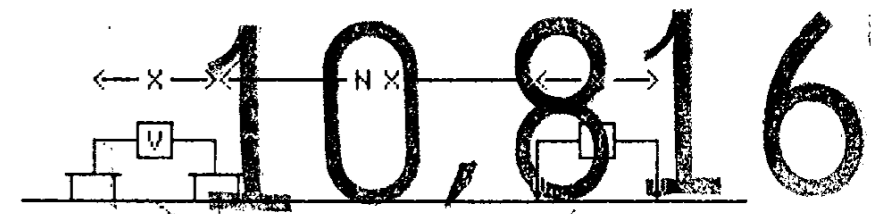
# PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION  
AND RESISTIVITY SURVEY

**ESSO MINERALS CANADA**

EAGLE PROSPECT  
LIARD M.D. / BRITISH COLUMBIA

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**



PLOTTING POINT → x X=50M  
SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE   
PROBABLE   
POSSIBLE

FREQUENCY (HERTZ) 0.25 & 4.0 HZ.  
DATE SURVEYED: JULY 1982  
APPROVED \_\_\_\_\_

NOTE - CONTOURS AT LOGARITHMIC INTERVALS: 1, -1.5, -2, -3, -5, -7.5, -10  
DATE \_\_\_\_\_

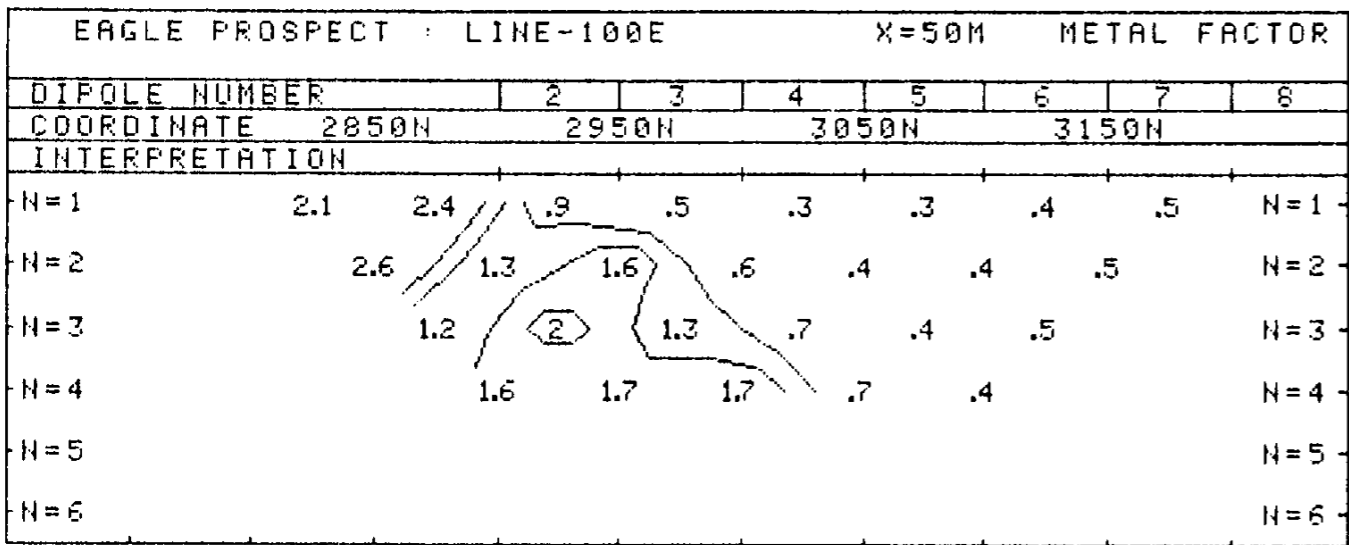
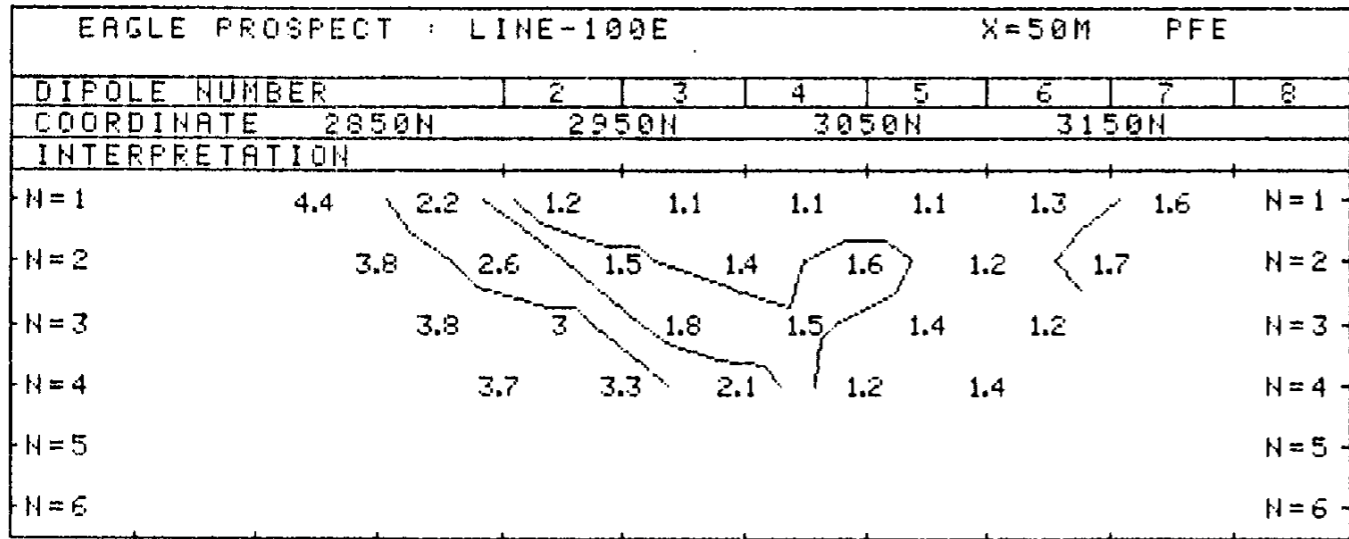
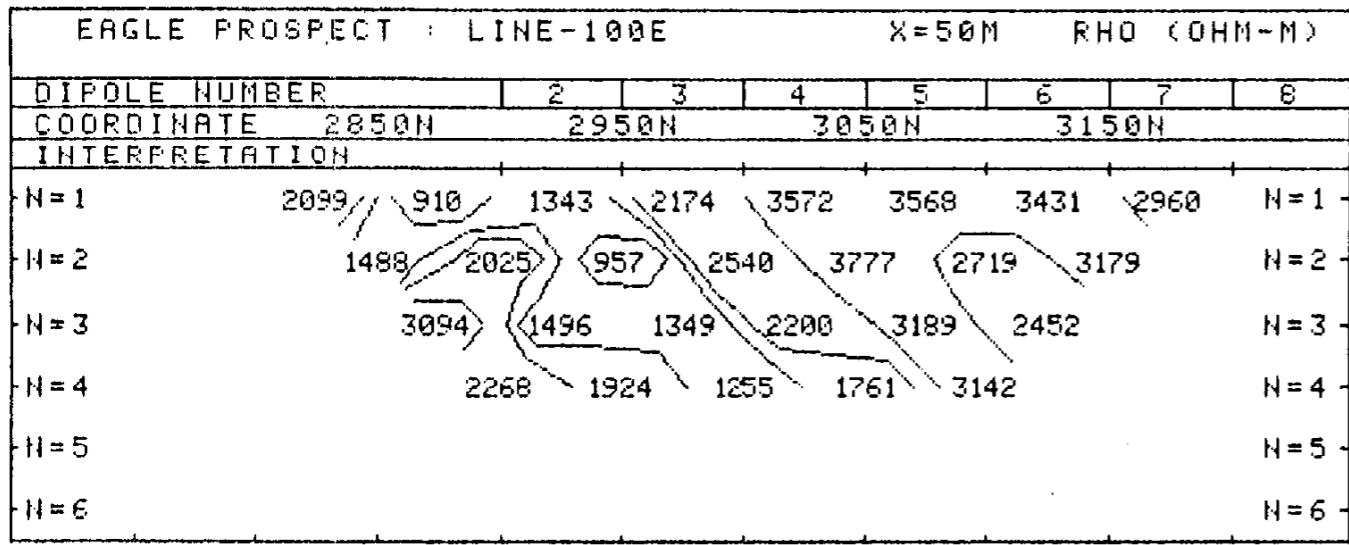
**PHOENIX GEOPHYSICS LTD.**

INDUCED POLARIZATION  
AND RESISTIVITY SURVEY

EAGLE PROSPECT : LINE-100E		X=50M RHO (OHM-M)																																	
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33			
COORDINATE	1450N	1550N	1650N	1750N	1850N	1950N	2050N	2150N	2250N	2350N	2450N	2550N	2650N	2750N	2850N	2950N	3050N																31	32	33
INTERPRETATION																																			
N=1	474	581	607	519	533	727	686	477	561	787	2092	4055	3178	3349	3971	4105	5474	3272	2385	1423	1604	2235	1724	2747	1631	2720	2385	2185	2310	802	N=1				
N=2	565	793	764	726	815	1148	1000	494	520	928	827	2444	3390	2956	3572	5338	4495	3065	3139	2539	1667	2074	197	2422	1767	2188	3385	1631	1835	1423	2020	N=2			
N=3	534	791	926	822	984	1463	1230	617	586	824	964	1101	2173	3376	3075	4554	5120	2263	2731	2904	3031	2122	1199	1742	1601	2531	2613	2315	1300	1144	3239	1425	N=3		
N=4	690	681	877	883	1249	1490	1480	696	718	889	1049	1235	950	2259	3473	3904	4513	2843	2533	2413	3543	3724	1217	1647	1131	2090	2876	1681	1883	851	2576	2333	1843	N=4	
N=5																																	N=5		
N=6																																	N=6		

EAGLE PROSPECT : LINE-100E		X=50M PFE																																	
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33			
COORDINATE	1450N	1550N	1650N	1750N	1850N	1950N	2050N	2150N	2250N	2350N	2450N	2550N	2650N	2750N	2850N	2950N	3050N																31	32	33
INTERPRETATION																																			
N=1	1.4	1.4	1	1.4	1.6	1	1.4	1.4	1.8	2.6	1.5	1.4	2.4	1.7	1.6	1.2	1.4	2.2	1.6	1.1	1.2	1.2	2.2	2.6	3.1	3.5	3	3.6	4.4	2.1	N=1				
N=2	1.4	1.8	1.5	1.9	1.4	1.2	1.3	1.3	2.3	1.8	1.4	1.7	2.1	2.4	1.8	1.2	1.1	2.3	1.4	1.4	1.1	1.2	1.7	2.1	2.6	3.3	4.2	4.9	5.9	4	2.9	N=2			
N=3	1.2	1.4	1.8	1.8	1.7	1.4	1.1	1.4	2.2	2.3	1.8	1.6	2.5	2.1	2.4	1.7	1.6	2	1.7	1.8	1.4	1.2	2	1.8	2.3	2.9	3.8	5.1	6	4.6	4.1	3.1	N=3		
N=4	1.4	1.5	1.8	2.3	2	1.7	1.3	1.6	2.3	2.6	2.4	2.2	2.1	1.5	2.4	2.4	1.7	2.8	1.7	1.6	1.6	1.4	1.6	1.8	2.2	2.4	3.5	4.6	5.7	4.5	4.4	3.8	3.2	N=4	
N=5																																	N=5		
N=6																																	N=6		

EAGLE PROSPECT : LINE-100E		X=50M METAL FACTOR																																	
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33			
COORDINATE	1450N	1550N	1650N	1750N	1850N	1950N	2050N	2150N	2250N	2350N	2450N	2550N	2650N	2750N	2850N	2950N	3050N																31	32	33
INTERPRETATION																																			
N=1	3	2.4	1.6	2.7	3	1.4	2	2.9	3.2	3.3	.7	.3	.8	.5	.4	.3	.7	.7	.8	.7	.5	1.3	.9	1.9	1.3	1.3	1.6	1.9	2.6	N=1					
N=2	2.5	2.3	2	2.6	1.7	1	1.3	2.6	4.4	1.9	1.7	.7	.6	.8	.5	.2	.2	.8	.4	.6	.7	.6	1.4	.9	1.5	1.5	1.2	3	3.2	2.8	1.4	N=2			
N=3	2.2	1.8	1.9	2.2	1.7	1	.9	2.3	3.8	2.8	1.9	1.5	1.2	.6	.8	.4	.3	.9	.6	.6	.5	.6	1.7	1	1.4	1.1	1.5	2.2	4.6	4	1.3	2.2	N=3		
N=4	2	2.2	2.1	2.6	1.6	1.1	.9	.9	3.2	2.9	2.3	1.8	2.2	.7	.7	.6	.4	1	.7	.7	.5	.4	1.3	1.1	1.9	1.1	1.2	2.7	3	5.3	1.7	1.6	1.7	N=4	
N=5																																	N=5		
N=6																																	N=6		

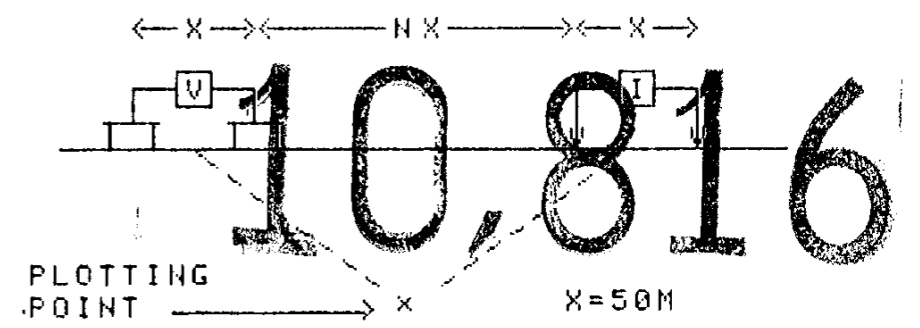


# ESSO MINERALS CANADA


EAGLE PROSPECT  
LIARD M.D. / BRITISH COLUMBIA

LINE NO. -100E

## GEOLOGICAL BRANCH ASSESSMENT REPORT



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE   
 PROBABLE   
 POSSIBLE 

FREQUENCY (HERTZ)  
0.25 & 4.0 HZ.

DATE SURVEYED: JULY 1982  
APPROVED \_\_\_\_\_

NOTE- CONTOURS  
AT LOGARITHMIC  
INTERVALS: 1, -1.5  
-2, -3, -5, -7.5, -10

DATE \_\_\_\_\_

# PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION  
AND RESISTIVITY SURVEY

EAGLE PROSPECT : LINE-100E												X=50M RHO (OHM-M)	
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12		
COORDINATE	3200N	3300N	3400N	3500N	3600N	3700N							
INTERPRETATION													
N=1	2805	2413	2516	2090	1569	2259	1406	2305	2069	3767			N=1
N=2	3250	3090	2313	2792	2250	1427	1890	2955	1621	2028	4165	N=2	
N=3	2488	3192	2769	2909	2870	2236	1410	3679	2011	1909	2104	4920	N=3
N=4	2424	2573	3147	2842	2513	2090	2653	2291	2201	2010	2540	N=4	
N=5												N=5	
N=6												N=6	

EAGLE PROSPECT : LINE-100E												X=50M PFE	
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12		
COORDINATE	3200N	3300N	3400N	3500N	3600N	3700N							
INTERPRETATION													
N=1	1.6	1.4	1.5	1.8	1.1	1.4	1.5	1.3	1.7	1.3			N=1
N=2	1.6	1.6	1.6	1.6	2.1	1.2	1.3	1.5	.7	1.6	.7	N=2	
N=3	1.7	1.6	2	1.4	1.9	1.6	1.9	1.5	.9	.8	1.6	.9	N=3
N=4	1.4	1.6	2.1	1.8	1.5	2	1.4	1.1	1	1.2	2.2	N=4	
N=5												N=5	
N=6												N=6	

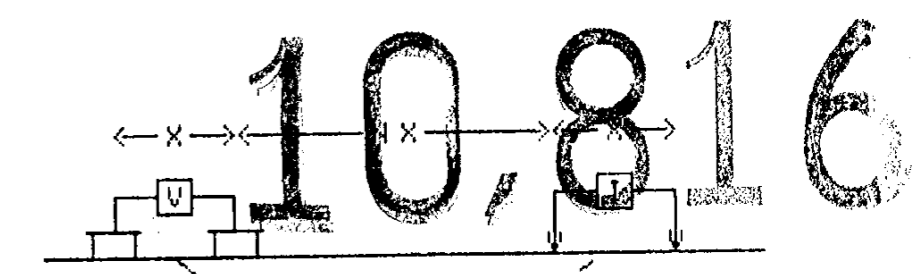
EAGLE PROSPECT : LINE-100E												X=50M METAL FACTOR	
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12		
COORDINATE	3200N	3300N	3400N	3500N	3600N	3700N							
INTERPRETATION													
N=1	.6	.6	.6	.9	.7	.6	1.1	.6	.8	.3			N=1
N=2	.5	.5	.7	.6	.9	.8	.7	.5	.4	.8	.2	N=2	
N=3	.7	.5	.7	.5	.7	.7	1.3	.4	.4	.4	.8	.2	N=3
N=4	.6	.6	.7	.6	.6	1	.5	.5	.5	.6	.9	N=4	
N=5												N=5	
N=6												N=6	

# ESSO MINERALS CANADA

EAGLE PROSPECT

LIARD M.D. / BRITISH COLUMBIA

GEOLOGICAL BRANCH  
AIRS NO. 5166  
ASSESSMENT REPORT



FREQUENCY (HERTZ) 0.25 & 4.0 HZ. DATE SURVEYED: JULY 1982  
APPROVED \_\_\_\_\_

NOTE - CONTOURS AT LOGARITHMIC INTERVALS: 1, -1.5, -2, -3, -5, -7.5, -10  
DATE \_\_\_\_\_

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION  
AND RESISTIVITY SURVEY

EAGLE PROSPECT : LINE-102E									
X=50M RHO (OHM-M)									
DIPOLE NUMBER	2	3	4	5	6	7	8		
COORDINATE	1050N	1150N	1250N	1350N					
INTERPRETATION									
N=1	2015	2090	2953	2185	2058	3963	2002	1882	N=1
N=2	1691	2234	2813	2089	3009	2638	1644		N=2
N=3	1678	2192	2470	3038	2004	1825			N=3
N=4		1411	2109	3462	1869	1487			N=4
N=5									N=5
N=6									N=6

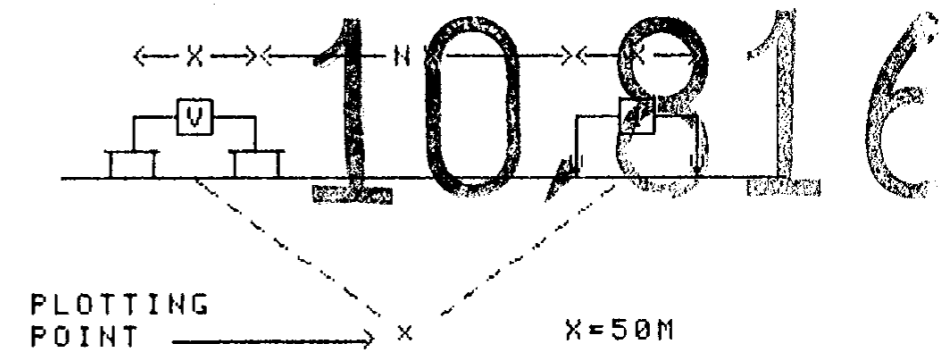
EAGLE PROSPECT : LINE-102E									
X=50M PFE									
DIPOLE NUMBER	2	3	4	5	6	7	8		
COORDINATE	1050N	1150N	1250N	1350N					
INTERPRETATION									
N=1	1.5	1.6	1.3	.8	1.3	1.2	1.2	1.2	N=1
N=2	1.2	1.4	1.2	1.2	1.1	1	1		N=2
N=3	1.2	1.3	1.5	1.1	1	1.2			N=3
N=4		1.3	1.4	1.4	1.4	.8			N=4
N=5									N=5
N=6									N=6

EAGLE PROSPECT : LINE-102E									
X=50M METAL FACTOR									
DIPOLE NUMBER	2	3	4	5	6	7	8		
COORDINATE	1050N	1150N	1250N	1350N					
INTERPRETATION									
N=1	.7	.8	.4	.4	.6	.3	.6	.6	N=1
N=2	.7	.6	.4	.6	.4	.4	.6		N=2
N=3		.7	.6	.6	.4	.5	.7		N=3
N=4		.9	.7	.4	.7	.5			N=4
N=5									N=5
N=6									N=6

# ESSO MINERALS CANADA

EAGLE PROSPECT  
LIARD M.D. / BRITISH COLUMBIA

## GEOLOGICAL BRANCH ASSESSMENT REPORT



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE   
 PROBABLE   
 POSSIBLE 

FREQUENCY (HERTZ)  
0.25 & 4.0 HZ.

DATE SURVEYED: JULY 1982  
APPROVED \_\_\_\_\_

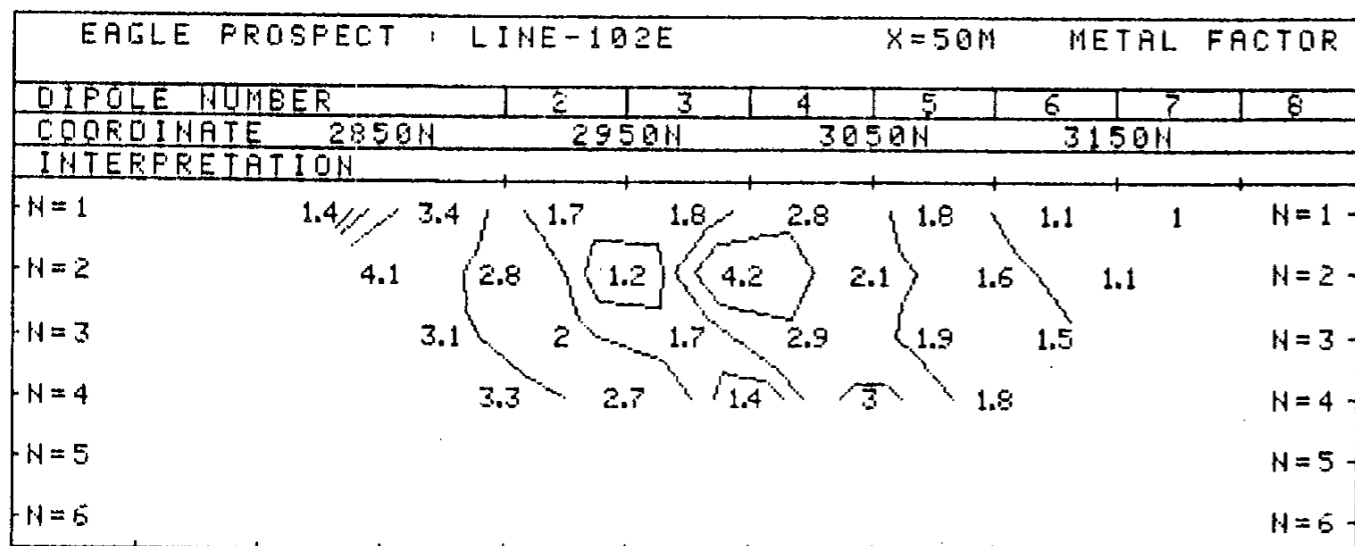
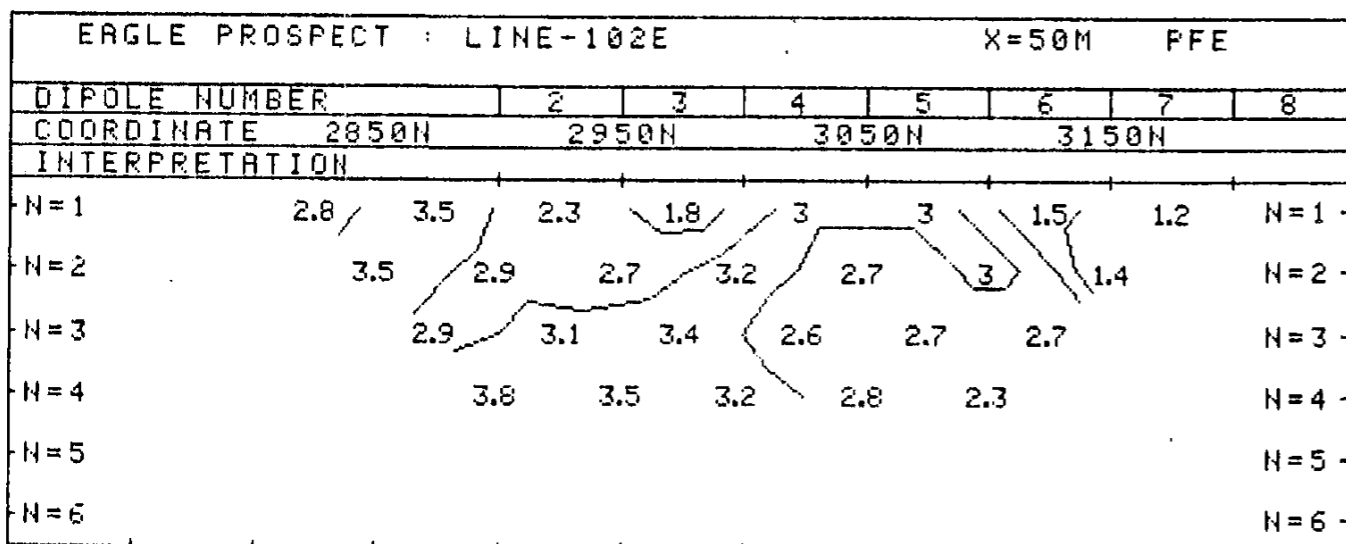
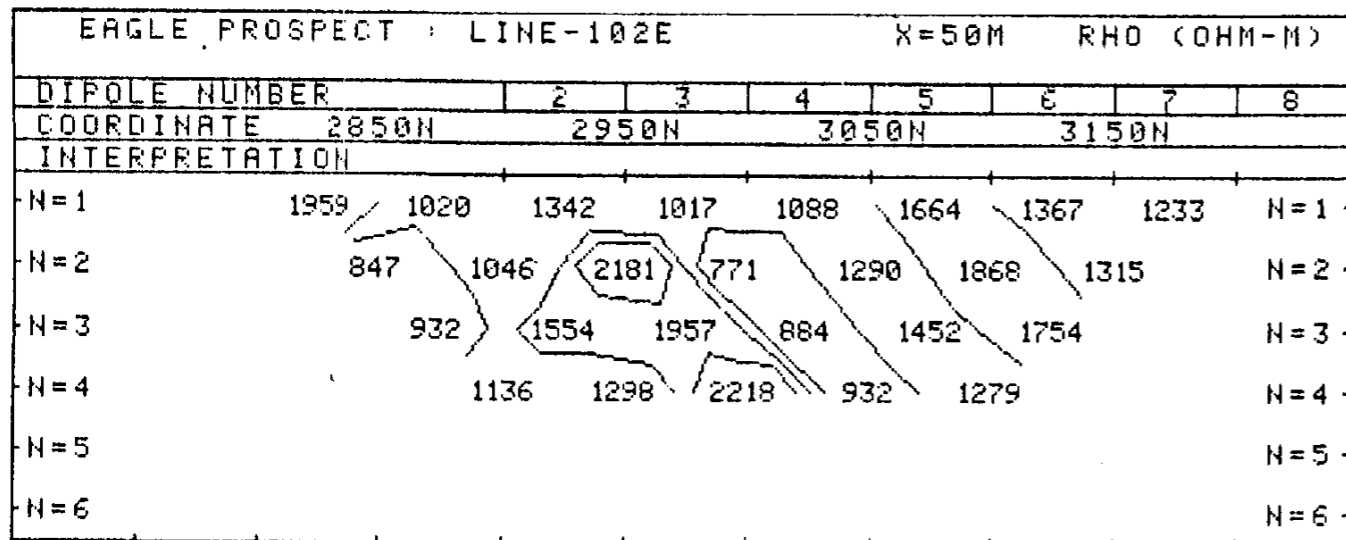
NOTE- CONTOURS  
AT LOGARITHMIC  
INTERVALS. 1, -1.5  
-2, -3, -5, -7.5, -10

DATE \_\_\_\_\_

### PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION  
AND RESISTIVITY SURVEY





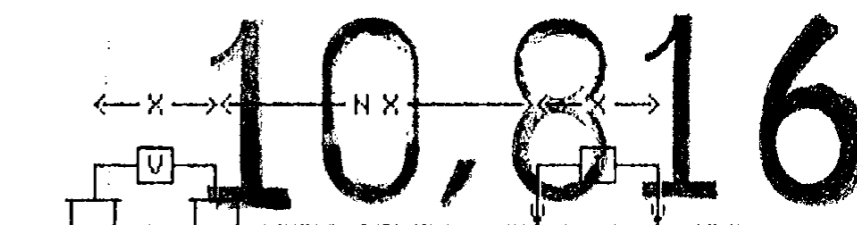
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# ESSO MINERALS CANADA

EAGLE PROSPECT

LIARD M.D. / BRITISH COLUMBIA

## GEOLOGICAL BRANCH LINE MEMENT REPORT



PLOTING POINT

X=50M

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE   
 PROBABLE   
 POSSIBLE 

FREQUENCY (HERTZ)  
0.25 & 4.0 HZ.

DATE SURVEYED: JULY 1982  
APPROVED \_\_\_\_\_

NOTE- CONTOURS  
AT LOGARITHMIC  
INTERVALS. 1, -1.5  
-2, -3, -5, -7.5, -10

DATE \_\_\_\_\_

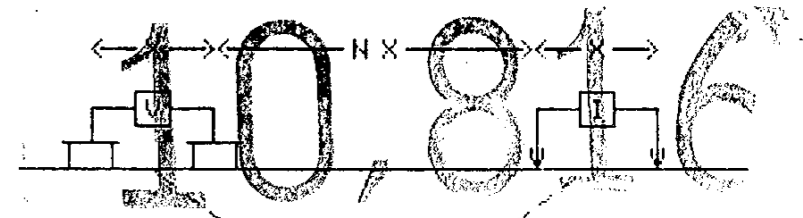
### PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION  
AND RESISTIVITY SURVEY

**ESSO MINERALS CANADA**

EAGLE PROSPECT  
LIARD M.D. / BRITISH COLUMBIA

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**



PLOTTING POINT X X=50M

SURFACE PROJECTION OF ANOMALOUS ZONE

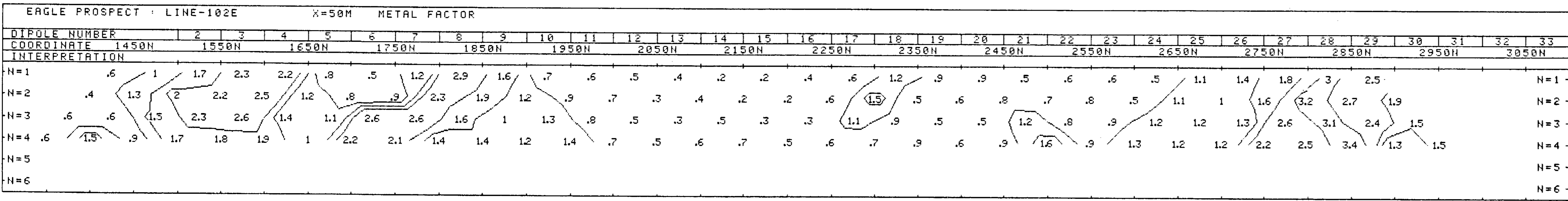
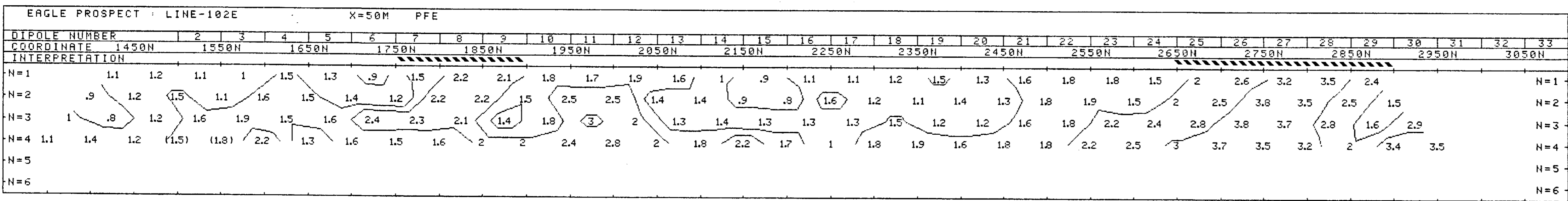
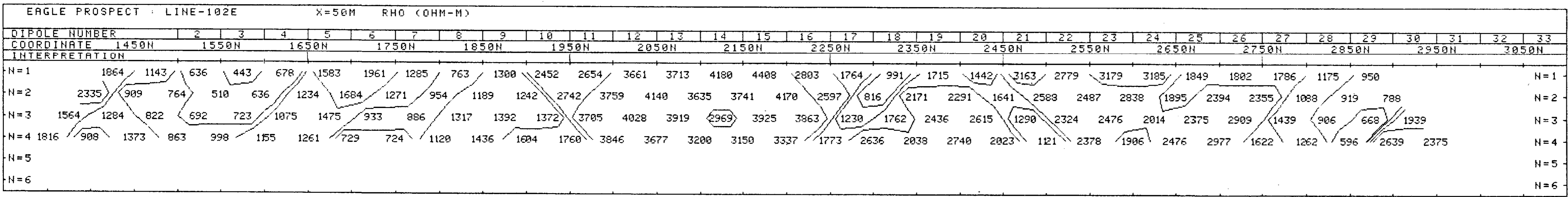


FREQUENCY (HERTZ) 0.25 & 4.0 HZ. DATE SURVEYED: JULY 1982 APPROVED

NOTE - CONTOURS AT LOGARITHMIC INTERVALS: 1, -1.5, -2, -3, -5, -7.5, -10 DATE \_\_\_\_\_

**PHOENIX GEOPHYSICS LTD.**

INDUCED POLARIZATION  
AND RESISTIVITY SURVEY



EAGLE PROSPECT : LINE-102E												X=50M RHO (OHM-M)	
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12		
COORDINATE	3200N	3300N	3400N	3500N	3600N	3700N							
INTERPRETATION													
N=1	1235	2116	1602	1775	1417	2540	1971	4095	3529	2864			N=1
N=2	1398	1824	1914	1993	2353	1530	2822	2534	4248	2866	3188		N=2
N=3	1766	1943	1598	2998	2423	3488	1703	3595	3064	3296	2918	1939	N=3
N=4	2176	1500	2481	3293	2684	2681	2056	3930	2407	3285	1856		N=4
N=5													N=5
N=6													N=6

EAGLE PROSPECT : LINE-102E												X=50M PFE	
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12		
COORDINATE	3200N	3300N	3400N	3500N	3600N	3700N							
INTERPRETATION													
N=1	1.7	1.2	1.4	1	1.3	1.6	1.6	1.4	1.5	1.6			N=1
N=2	1.6	1.6	1.4	1.6	1.2	1.7	1.6	1.6	1.6	1.5	1.2		N=2
N=3	2.7	1.6	1.4	1.5	1.7	1.8	1.4	1.8	2	1.4	1.4	1.2	N=3
N=4	2.0	1.7	1.6	2	2.1	1.9	1.7	1.7	2	1.5	1.5		N=4
N=5													N=5
N=6													N=6

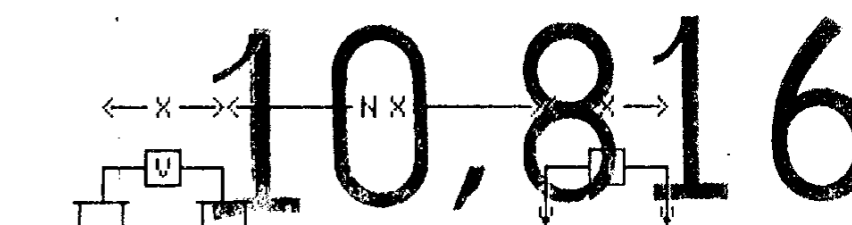
EAGLE PROSPECT : LINE-102E												X=50M METAL FACTOR	
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12		
COORDINATE	3200N	3300N	3400N	3500N	3600N	3700N							
INTERPRETATION													
N=1	1.4	.6	.9	.6	.9	.6	.8	.3	.4	.6			N=1
N=2	1.1	.9	.7	.8	.5	1.1	.6	.6	.4	.5	.4		N=2
N=3	1.5	.8	.9	.5	.7	.5	.8	.5	.7	.4	.5	.6	N=3
N=4	1.3	1.1	.6	.6	.8	.7	.8	.4	.8	.5	.8		N=4
N=5													N=5
N=6													N=6

# ESSO MINERALS CANADA

EAGLE PROSPECT

LIARD M.D. / BRITISH COLUMBIA

GEOLOGICAL BRANCH  
ASSIGNMENT REPORT



PLOTTING POINT X X=50M

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE   
 PROBABLE   
 POSSIBLE 

FREQUENCY (HERTZ)  
0.25 & 4.0 HZ.

DATE SURVEYED: JULY 1982  
APPROVED

NOTE- CONTOURS  
AT LOGARITHMIC  
INTERVALS. 1, -1.5  
-2, -3, -5, -7.5, -10

DATE \_\_\_\_\_

## PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION  
AND RESISTIVITY SURVEY



EAGLE PROSPECT : LINE-104E		X=50M RHO (OHM-M)							
DIPOLE NUMBER	2	3	4	5	6	7	8		
COORDINATE	2850N	2950N	3050N	3150N					
INTERPRETATION									
N=1	2273	828	1267	965	1335	1827	995	1183	N=1
N=2	1217	1105	1530	848	1813	1296	1456		N=2
N=3	1742	1241	1399	1123	1319	1841			N=3
N=4		1815	1077	1933	778	1778			N=4
N=5									N=5
N=6									N=6

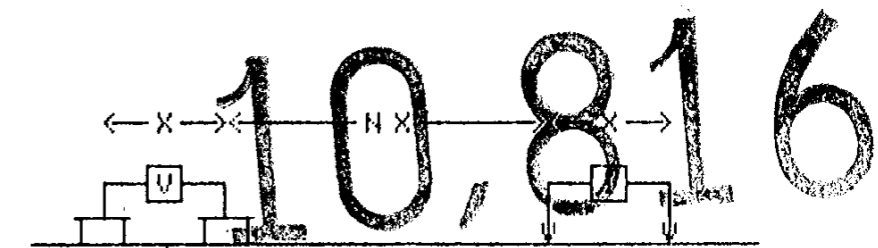
EAGLE PROSPECT : LINE-104E		X=50M PFE							
DIPOLE NUMBER	2	3	4	5	6	7	8		
COORDINATE	2850N	2950N	3050N	3150N					
INTERPRETATION									
N=1	2.7	2.2	1.7	1.5	1.6	1.6	1.7	1.9	N=1
N=2	2.5	2.5	2.1	1.8	1.9	2.2	1.7		N=2
N=3	2.7	2.4	2.3	1.9	2.5	2			N=3
N=4	2.7	2.7	2.6	2.5	2.3				N=4
N=5									N=5
N=6									N=6

EAGLE PROSPECT : LINE-104E		X=50M METAL FACTOR							
DIPOLE NUMBER	2	3	4	5	6	7	8		
COORDINATE	2850N	2950N	3050N	3150N					
INTERPRETATION									
N=1	1.2	2.7	1.3	1.6	1.2	.9	1.7	1.6	N=1
N=2	2.1	2.3	1.4	2.1	1	1.7	1.2		N=2
N=3	1.5	1.9	1.6	1.7	1.9	1.1			N=3
N=4	1.5	2.5	1.3	3.2	1.3				N=4
N=5									N=5
N=6									N=6

# ESSO MINERALS CANADA

EAGLE PROSPECT  
LIARD M.D. / BRITISH COLUMBIA

## GEOLOGICAL BRANCH ASSESSMENT REPORT



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE   
 PROBABLE   
 POSSIBLE 

FREQUENCY (HERTZ)  
0.25 & 4.0 HZ.

DATE SURVEYED: JULY 1982  
APPROVED \_\_\_\_\_

NOTE- CONTOURS  
AT LOGARITHMIC  
INTERVALS. 1, -1.5  
-2, -3, -5, -7.5, -10

DATE \_\_\_\_\_

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION  
AND RESISTIVITY SURVEY

EAGLE PROSPECT : LINE-104E													X=50M RHO (OHM-M)	
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12			
COORDINATE	3200N	3300N	3400N	3500N	3600N	3700N								
INTERPRETATION														
N=1	1278	1469	1132	1291	2993	2185	2250	1840	5293	1883			N=1	
N=2	1497	1451	1262	1427	2301	2607	2144	2042	3410	2781	1443		N=2	
N=3	1840	1476	1291	1419	2430	2040	2835	1912	4156	2494	1915	1958	N=3	
N=4	1837	1339	1421	2349	2138	2043	2458	3684	3297	1776	2482		N=4	
N=5													N=5	
N=6													N=6	

EAGLE PROSPECT : LINE-104E													X=50M PFE	
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12			
COORDINATE	3200N	3300N	3400N	3500N	3600N	3700N								
INTERPRETATION														
N=1	2.3	2.2	3.1	2.4	2.4	1.9	1.4	1.2	1.2	1			N=1	
N=2	1.9	2.5	2.5	2.4	2.8	2.4	1.8	1.5	1.2	1.5	1.2		N=2	
N=3	2.3	2.5	2.4	2.8	2.7	2.6	1.8	1.9	1.8	1.4	1.2	1.4	N=3	
N=4	3.1	2.8	2.7	3.9	2.4	2	2	2.5	1.7	1.2	1.6		N=4	
N=5													N=5	
N=6													N=6	

EAGLE PROSPECT : LINE-104E													X=50M METAL FACTOR	
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12			
COORDINATE	3200N	3300N	3400N	3500N	3600N	3700N								
INTERPRETATION														
N=1	1.8	1.5	2.7	1.9	.8	.9	.6	.7	.2	.5			N=1	
N=2	1.3	1.7	2	1.7	1.2	.9	.8	.7	.4	.5	.8		N=2	
N=3	1.3	1.7	1.9	2	1.1	1.3	.6	1	.4	.6	.6	.7	N=3	
N=4	1.7	2.1	1.9	1.7	1.1	1	.8	.7	.5	.7	.6		N=4	
N=5													N=5	
N=6													N=6	

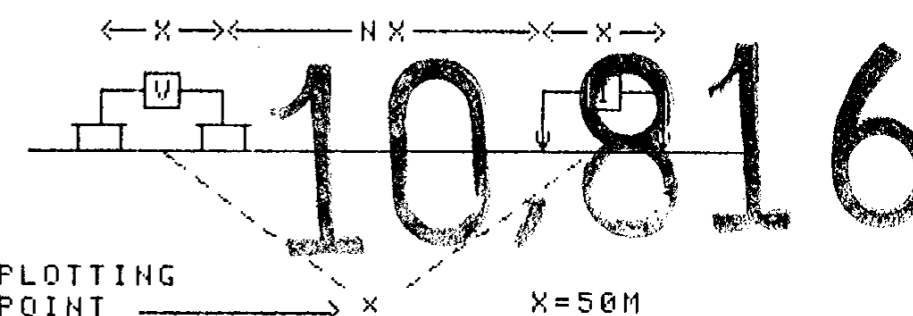
# ESSO MINERALS CANADA

EAGLE PROSPECT

LIARD M.D. / BRITISH COLUMBIA

LINE NO. -104E

## GEOLOGICAL BRANCH ASSESSMENT REPORT



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE   
 PROBABLE   
 POSSIBLE 

FREQUENCY (HERTZ)  
0.25 & 4.0 HZ.

DATE SURVEYED: JULY 1982

APPROVED \_\_\_\_\_

NOTE- CONTOURS  
AT LOGARITHMIC  
INTERVALS: 1, -1.5  
-2, -3, -5, -7.5, -10

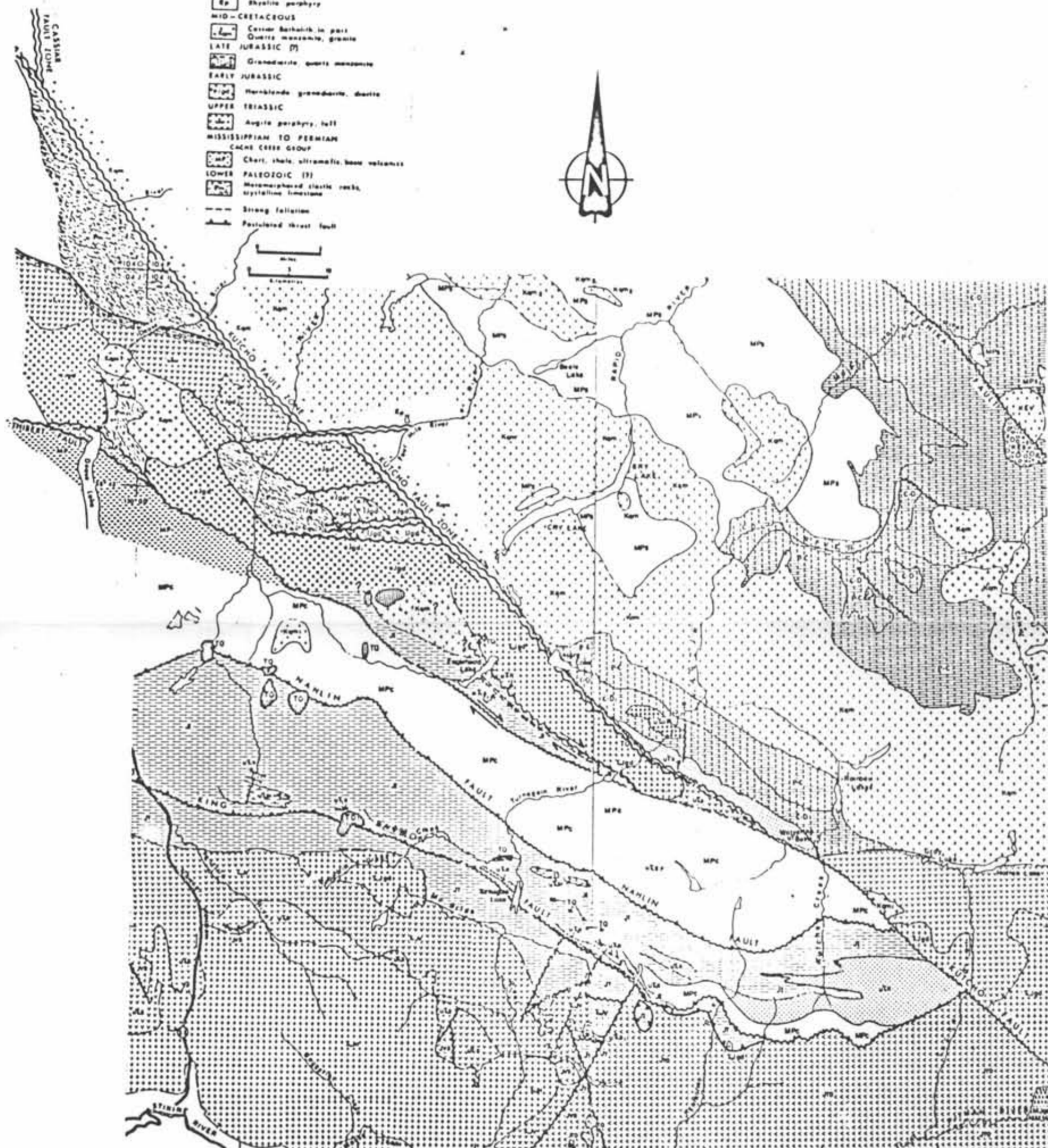
DATE \_\_\_\_\_

### PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION  
AND RESISTIVITY SURVEY

LEGEND (Gabrielse 1982)

- Eocene (?)**  
Ep Rhyolite porphyry
- MID-CRETACEOUS**  
Cassiar Batholith in part  
Quartz monzonite, granite
- LATE JURASSIC (?)**  
Granodiorite quartz monzonite
- EARLY JURASSIC**  
Hornblende granodiorite, diorite
- UPPER TRIASSIC**  
Augite porphyry, tuff
- MISSISSIPPIAN TO PERMIAN**  
Cache Creek Group  
Chert, shale, ultramafic, basic volcanics
- LOWER PALEOZOIC (?)**  
Metamorphosed clastic rocks,  
crystalline limestone
- Strong foliation  
Foliated thrust fault



Legend

Stratified Rocks (Gabrielse 1978)

- TERTIARY AND QUATERNARY**  
TU: Basalt, lava, tuff, agglomerate
- CRETACEOUS(?) AND TERTIARY**  
UPPER CRETACEOUS(?) TO EOCENE(?)  
KE: Conglomerate, sandstone, shale  
KEv: Rhyolite, psiltoitic siliceous tuff, chalcedonic rhyolite breccia
- JURASSIC**  
MIDDLE JURASSIC (mainly?)  
JMD: "TOODOOGONE VOLCANICS": Mauve and green andesitic and dioritic volcanics; conglomerate, siltstone, shale  
LOWER JURASSIC (mainly Toarcian)  
JLW: "TOODOOGONE VOLCANICS": Andesite, dacite, rhyolite, green and maroon feldspar porphyry, tuff, breccia; calcareous siltstone, silty limestone  
LOWER JURASSIC (mainly Pliensbachian)  
JLW: INKILIN FORMATION: Greywacke, slate conglomerate (age range uncertain), locally includes  
TAKWACHO FORMATION: Greywacke, siltstone, argillite, conglomerate
- TRIASSIC AND JURASSIC**  
UPPER TRIASSIC AND LOWER JURASSIC  
JLW: Andesitic green and maroon weathering volcanics  
UPPER TRIASSIC  
JLW: STUMI FORMATION: Augite porphyry, coarse-bladed feldspar porphyry; minor sedimentary rocks  
JLW: SIMA FORMATION: Fossiliferous limestone; minor calcareous shale  
JLW: "KUTCHO FORMATION": Quartz-eye sericitic schist, chlorite schist, breccia, conglomerate
- MISSISSIPPIAN TO PERMIAN**  
MPW: CACHE CREEK GROUP: Chert, shale, limestone, ultramafic, gabbro, diorite, basic volcanics  
MPW: SYLVESTER GROUP: Chert, slate, limestone, ultramafic, gabbro, diorite, basic volcanics. Lower part includes chert breccia and chert-pebble conglomerate
- CAMBRIAN TO DEVONIAN**  
C-D: Limestone, dolomite, sandstone, siltstone, shale; C-D, mainly black, carbonaceous phyllite, probably includes lower
- PROTEROZOIC AND LOWER CAMBRIAN**  
P-C: Limestone, sandstone, shale, grit and metamorphosed equivalents; PL-G, mainly metamorphosed clastic rocks
- Intrusive Granitic Rocks
- MID-CRETACEOUS (mainly?)**  
Kam: CASSIAR BATHOLITH: Quartz monzonite, minor granodiorite and diorite; locally foliated or megacrystic near contact; abundant metasedimentary inclusions near Eagle River; age uncertain; Kam, Kam in part dioritic
- MID-JURASSIC(?)**  
JMD: Granodiorite, leucocratic, pink; fine to medium grained
- UPPER TRIASSIC AND LOWER JURASSIC (may include younger rocks in part)**  
JLW: HOTAILLIN Batholith: Granodiorite, syenodiorite, gabbro  
JLW: Hornblende diorite, quartz monzonite, in part foliated
- Ultrabasic Rocks - Alaskan Type
- UPPER TRIASSIC(?)**  
JLW: Diorite, peridotite, pyroxenite

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

10,816

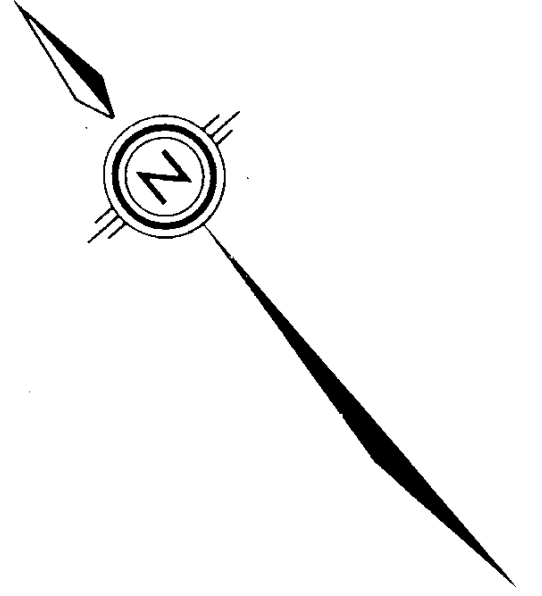
ESSO MINERALS CANADA

EAGLEHEAD

(after  
REGIONAL GEOLOGY Gabrielse

0 100 200 MILES 1978,82)  
0 100 200 400 KILOMETRES

C. EVERETT PROJECT 2154 DATE JULY 1982 Map #1



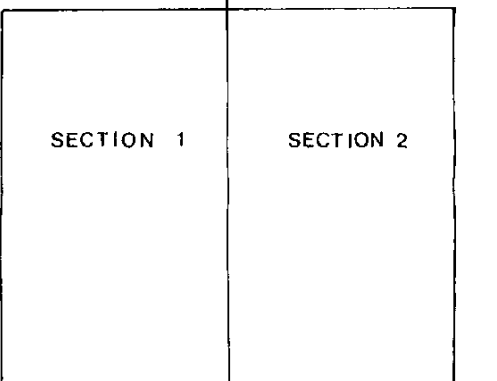
**GEOLOGICAL UNITS**

- A** ANDESITE: PALE TO OLIVE GREEN, LOCALLY CRACKLED, HEMATITE STAINING NEAR CONTACT TO HORNBLENDE GRANODIORITE. CONTAINS TRACE HORNBLENDE AND PLAGIOCLASE ENDOGENES (STUNNI FORMATION?). COMMONLY OCCURS AS ANGLAR TO BOUNDED FRAGMENTS WITHIN THE BIOTITE GRANODIORITE. FRAGMENT SIZE AND ABUNDANCE DECREASES TOWARDS THE BIOTITE GRANODIORITE.
- D** DYKE: UNIT LOCATED IN FOOT ONLY. FINE, MAFIC, MAFIC ORDERED, RED, FINE GRAINED GRANODIORITE. CONTAINS MAFIC TO ROUNDED CORNERS GRANITE AND SEGMENT FRAGMENTS.
- HGD** HORNBLENDE GRANODIORITE: TYPICALLY APPEARS GREEN IN COLOR. USUALLY TO INTERMEDIATE GRAIN SIZE WITH TRACE SERICITE. ASSOCIATED CORNERS HORNBLENDE PNEUMATOCHALCOPHITES NOTED IN FRESH TO WEAKLY CHLORITIZED SECTIONS. VARIABLE QUARTZ AND EPIDOTE - 12-15% QUARTZ AND EPIDOTE. PNEUMATOCHALCOPHITES FLOATING IN AN ANOMALOUS CHLORITIC GRANODIORITE (TYPE) BEARING SECTIONS MAY BE TRACED. 1-5% OF UNIT CONSISTS OF MAFIC WEATHERING PRODUCTS AND BLOCKS ASSIMILATED ALONG AN INTRUSIVE-VOLCANIC CONTACT.
- BGD** BIOTITE GRANODIORITE: MEDIUM GRAINED, VARIABLE CHLORITE-EPIDOTE-SERICITE-CARBONATE + QUARTZ + K-FSP + K-SPH + QUARTZ + BIOTITE + BIOTITE-CARBONATE INTERGROWTH IN BOUNDARIES. HEMATITE, K-SPH, CHLORITE, EPIDOTE, QUARTZ AND CARBONATE MAY ALSO OCCUR ON FRESHNESS AND ALSO IN FRESHNESS GRANODIORITE ZONING. UNIT IS COMPOSITIONALLY SIMILAR TO THE GRANODIORITE PARAPHAN. ONLY TRACE HORNBLENDES NOTED. CORRELATION FROM UNITS GP AND HGD IS MADE BY QUARTZ SIZE AND HORNBLENDE CONTENT ONLY (FRESHNESS). COMMONLY MOST EXPOSED TYPE ZONE.
- GP** GRANODIORITE PARAPHAN: MEDIUM TO COARSE GRAINED. CONTAINS 15-10% FINE K-SPH. IN MATRIX, 50% PNEUMATOCHALCOPHITES, 5-15% 2-5mm QUARTZ DIPS, 10% BIOTITE, 1% HORNBLENDE AND TR. HEMATITE. UNIT IS GENERALLY BARREN AND FRESH. CONTAINS ONLY TRACE OF STAMPERS AND TYPE BEARING QUARTZ.
- GPGZ** GRANODIORITE PARAPHAN - ISOSTATIC ZONE: SIMILAR TO UNIT GP. REPRESENTS AN ALTERATION ZONE WHICH BORDERS THE BIOTITE GRANODIORITE. VARIES FROM PERVASIVE SERICITE-K-SPH TO CHLORITE-EPIDOTE FLOODING OF GRANODIORITE. TR. HEMATITE.

**LEGEND**

- OUTCROP
- FLOAT
- GEOLOGICAL BOUNDARY - DEFINED
- GEOLOGICAL BOUNDARY - APPROXIMATE
- GEOLOGICAL BOUNDARY - UNMETRE
- QUARTZ VEIN ATTITUDE (INCLINED, VERTICAL)
- BEDDING (INCLINED, VERTICAL)
- JOINTING (INCLINED, VERTICAL)
- SYNCLINE
- ANTICLINE
- STRUCTURAL LINE
- FAULT
- TRAIL
- STREAM (PERENNIAL, INTERMITTENT)
- DRILL HOLE PROJECTION
- MARSH - LOW TIDAL BRUSH COVER.
- HELICOPTER PAD
- CLAIM POST
- SERICITE
- K-SPH. EXPANSION FELDSPAR
- CHLORITE
- EPIDOTE
- CARBONATE
- INTENSIVE
- WACK
- PYROCLASTIC
- CHALCOPHITES
- HEMATITE
- OXIDIZED

**FAR EAST GRID**



Map # 2

**SECTION 1**

SCALE 1:5000  
0 50 100 150 200 300 400m

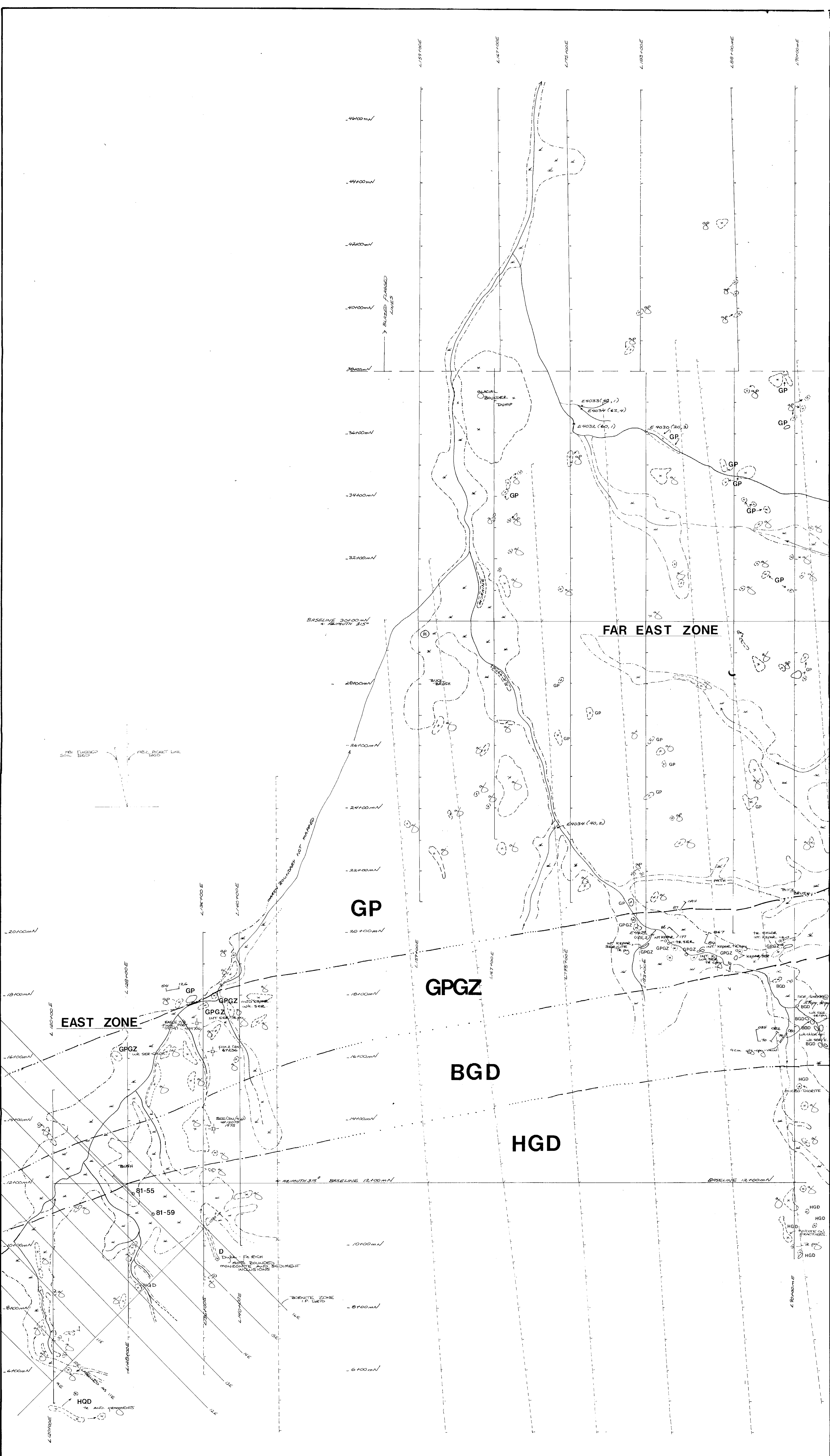
ESSO MINERALS CANADA

EAGLE PROJECT

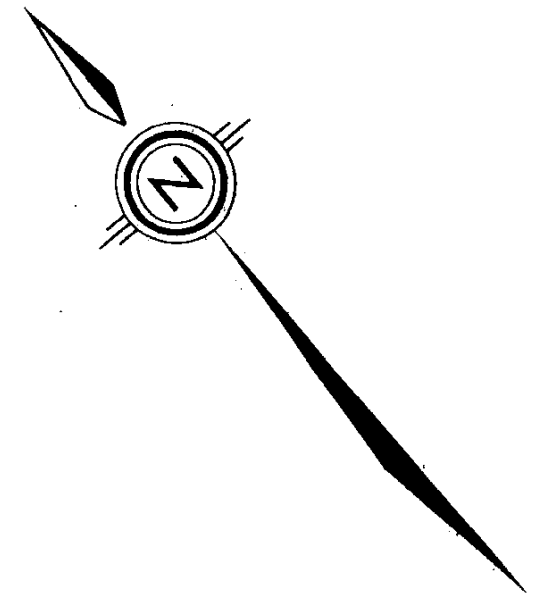
FAR EAST GRID

GEOLOGY

PROJECT # 204 MINING DIVISION: LARD  
DATE: JULY 1982 SCALE: 1cm = 50 METRES  
NTS: 104 I 6E/1E DRAWN BY: C.E.







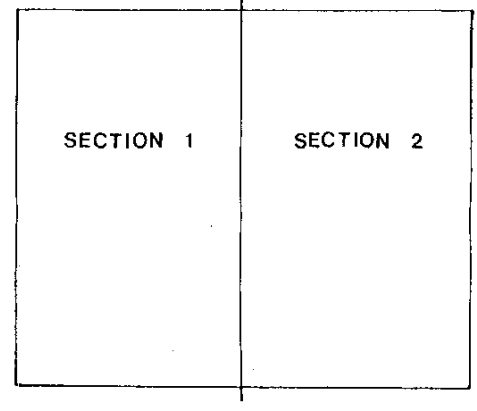
## GEOLOGICAL UNITS

- A** ANDESITE: PALE TO OLIVE GREEN, LOCALLY CRACKLED, HERCYNITE STAINING NEAR CONTACT TO HORNBLENDE GRANODIORITE. CONTAINS TRACE HORNBLENDE AND PLAGIOCLASE PHENOCRYSTS (STUNNIN FORMATION?). COMMONLY OCCURS AS ANGIULAR TO ROUNDED FRAGMENTS WITHIN THE HORNBLENDE GRANODIORITE. FRAGMENT SIZE AND ABUNDANCE DECREASES TOWARDS THE BIOTITE GRANODIORITE.
- D** DYKE: UNIT LOCATED IN FLOAT ONLY. FINE, HIGHLY OXIDIZED, RED, FINE GRAINED GRANODIORITE CONTAINING ANGIULAR TO ROUNDED COARSE GRAINED MONZONITE AND SEDIMENT FRAGMENTS.
- HGD** HORNBLENDE GRANODIORITE: TYPICALLY APPLE GREEN IN COLOUR, WEAK TO INTENSE OXIDATE (OXIDANT WITH MINOR SERICITE ASSOCIATED). COARSE HORNBLENDE PHENOCRYSTS NOTED IN FRESH TO WEAKLY CHLORITIZED SECTIONS. VARIABLE QUARTZ, QUARTZ EYE CONTENT - TR → 5%. CONTAINS 10-20% PLAGIOCLASE PHENOCRYSTS LOCATED IN AN ANGIULAR OXIDATE SURROUNDING COPPER BEARING SECTIONS THAT BE YELLORIFIED. 1-5% OF UNIT COMPOSED OF BASIC VOLCANIC FRAGMENTS AND BLOCKS - ASSIMILATED ALONG THE INTRUSIVE-VOLCANIC CONTACT.
- BGD** BIOTITE GRANODIORITE: MEDIUM GRAINED; VARIABLE CHLORITE-EPIDOTE-SERICITE-CARBONATE → SERICITE → K-SPAR → K-SPAR → QUARTZ → SERICITE-BIOTITE-CARBONATE ALTERATION IN GRANODIORITE. HERCYNITE, K-SPAR, QUARTZ, EPIDOTE, QUARTZ, AND CARBONATE THAT ALSO OCCUR ON PRESSURES AND AS PERSISTIVE PROLONGED FLOODING. UNIT IS COMPOSITIONALLY SIMILAR TO THE GRANODIORITE FORMATION. ONLY TRACE HORNBLENDES NOTED. COMPOSITION FROM UNITS EP AND HGD IS MADE BY GRAIN SIZE AND HORNBLENDE CONTENT RATIO. POSITIVELY COMMONLY HOSTS EPHERAL COPPER ZONES.
- GP** GRANODIORITE FORMATION: MEDIUM TO COARSE GRAINED. CONTAINS 5-10% FINE K-SPAR IN MATRIX, 50% PLAGIOCLASE, 5-15% 3-15 MM QUARTZ EYES, 10% BIOTITE, THE HORNBLENDE AND THE TRINITIATE UNIT IS GENERALLY BARE AND FRESH. CONTAINS ONLY TRACE OF STRUNGERS AND COPPER BEARING SHEARS.
- GPGZ** GRANODIORITE FORMATION - BRADATIONAL ZONE SIMILAR TO UNIT (GP). REPRESENTS AN ALTERNATION ZONE WHICH BORDERS THE BIOTITE GRANODIORITE. VARIES FROM PERSISTIVE SERICITE-K-SPAR → CHLORITE-EPIDOTE FLOODING OF GRANODIORITE. TRIPY, TESH.

## LEGEND

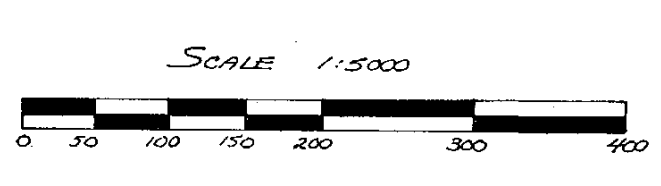
- OUTCROP
- FLOAT
- GEOLOGICAL BOUNDARY - DEFINED
- - - - - GEOLOGICAL BOUNDARY - APPROXIMATE
- - - - - GEOLOGICAL BOUNDARY - INTERPRETED
- /// DIPS VEIN ATTITUDE (INCLINED, VERTICAL)
- /// BEDDING (INCLINED, VERTICAL)
- /// JOINTING (INCLINED, VERTICAL)
- /// SHINGLE
- /// ANTICLINE
- /// BLACAL
- /// FAULT
- TRAIL
- STREAM (PERENNIAL, INTERMITTENT)
- DRILL HOLE PROJECTION
- MARSH - LOW TRUCK BRUSH COVER
- HELICOPTER PAD
- CLAIM POST
- SER. SERICITE
- K-SPAR. POTASSIUM FELDSPAR
- CHOR. CHLORITE
- EP. EPIDOTE
- CARB. CARBONATE
- INT. INTENSE
- WK. WEAK
- MOD. MODERATE
- FRESH. FRESH
- CHALC. CHALCOPRITE
- MAL. MALACHITE
- OK. OXIDIZED
- AND. ANDERSON

## FAR EAST GRID

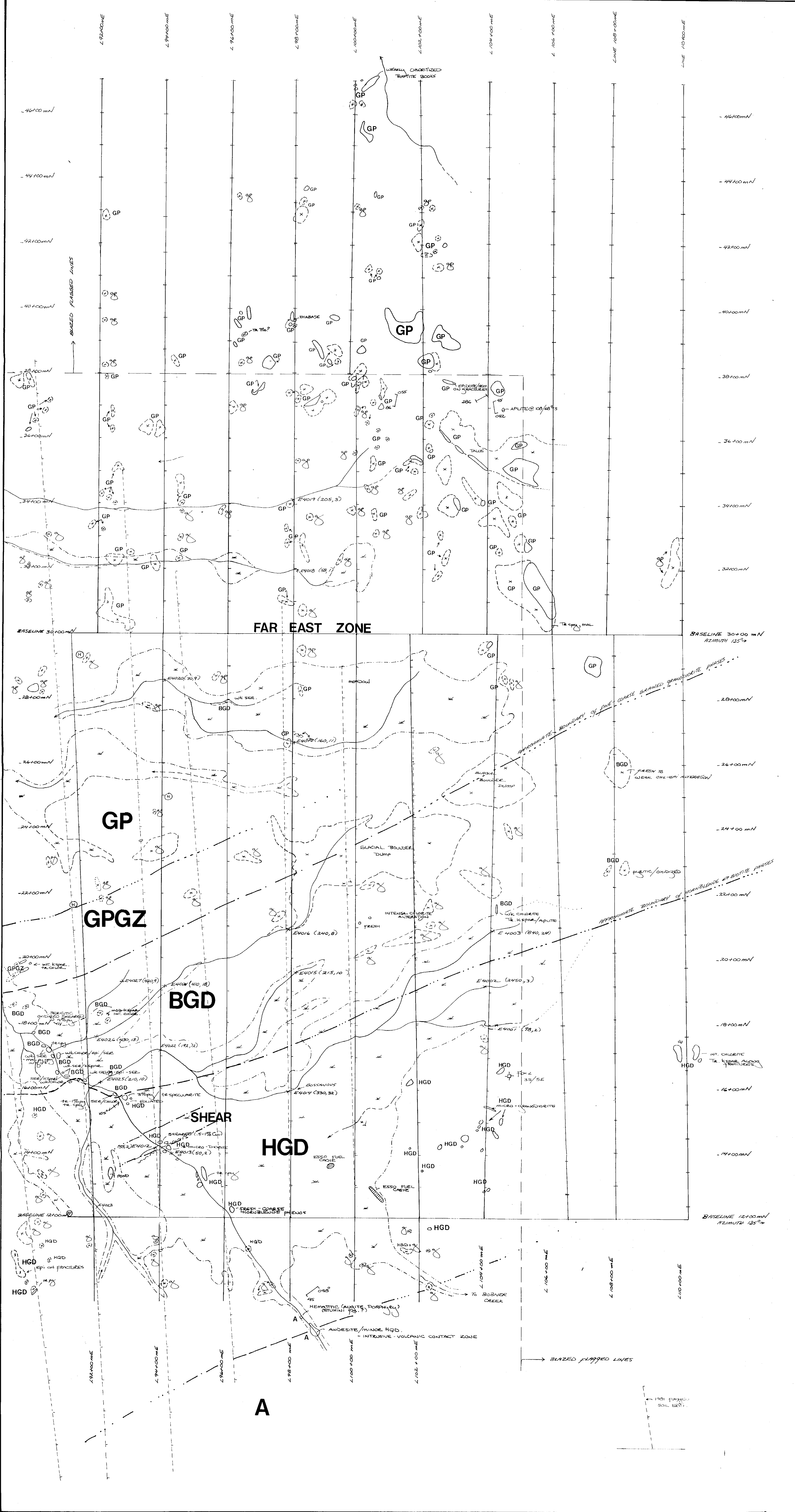


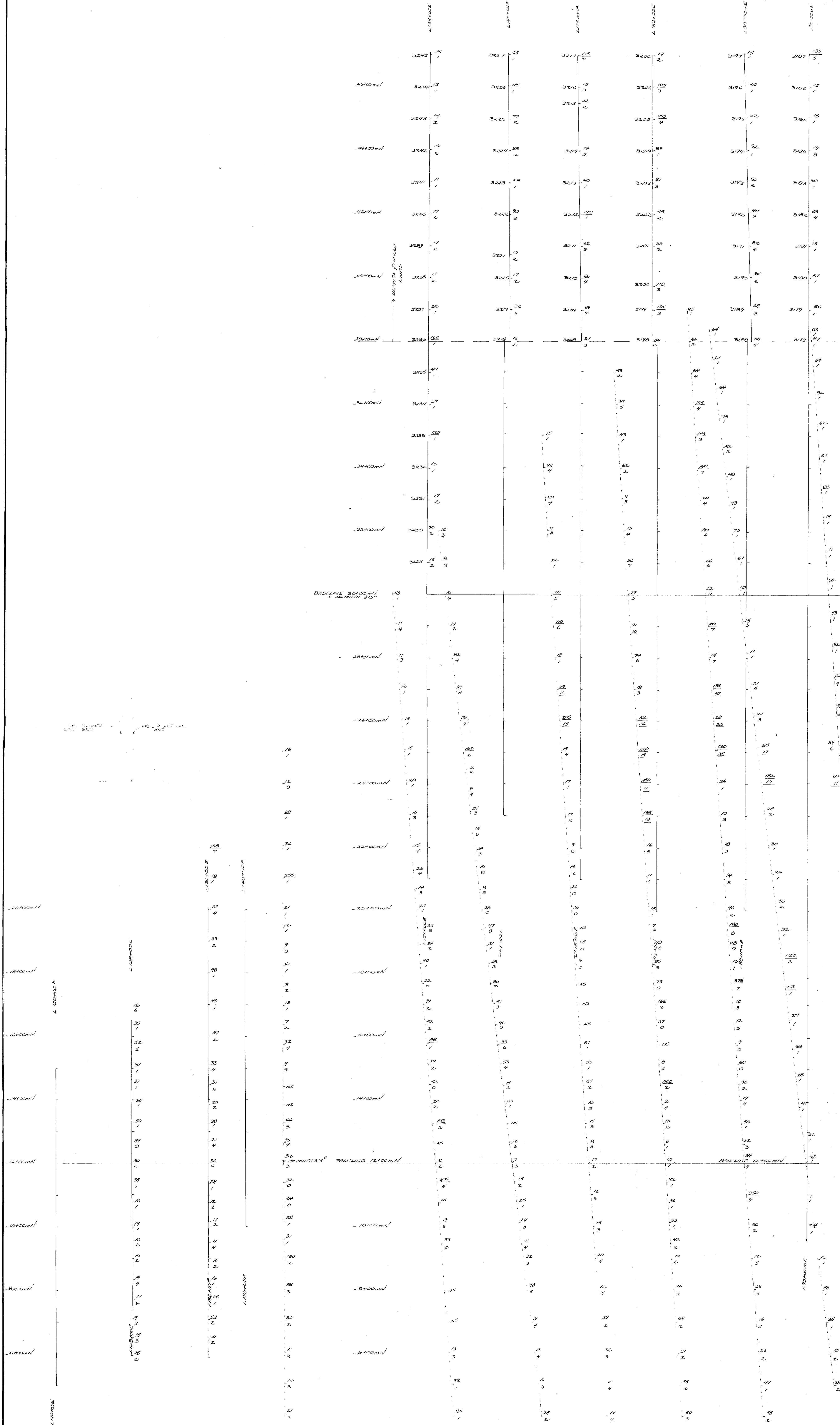
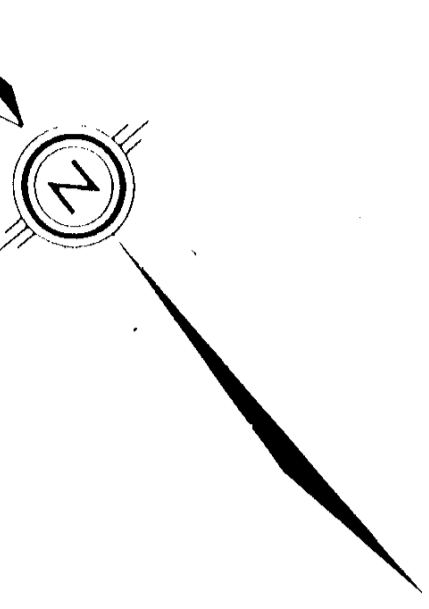
Map # 3

## SECTION 2



ESSO MINERALS CANADA	
EAGLE PROJECT	
FAR EAST GRID	
GEOLOGY	
PROJECT # 2154	MINING DIVISION: LARD
DATE: JULY 1982	SCALE: 1 CM = 30 METRES
NFS. 2043 4E/1E	DRAWN BY: C.E.





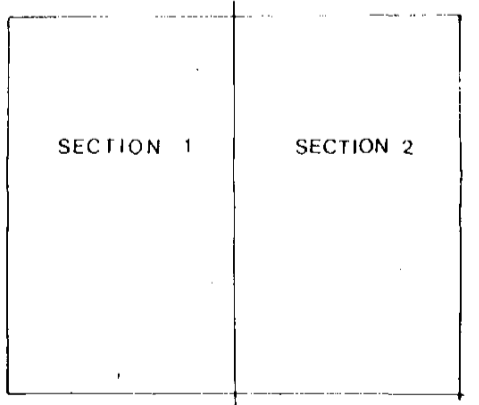
1981 SOIL GEOCHEM

Cu (ppm)  
Mo (ppm)

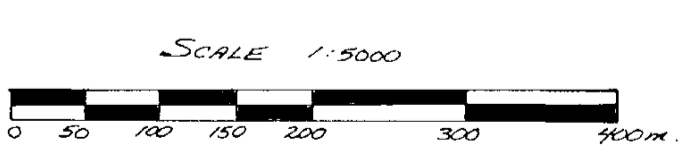
1982 SOIL GEOCHEM

Cu (ppm)  
Mo (ppm)

FAR EAST GRID



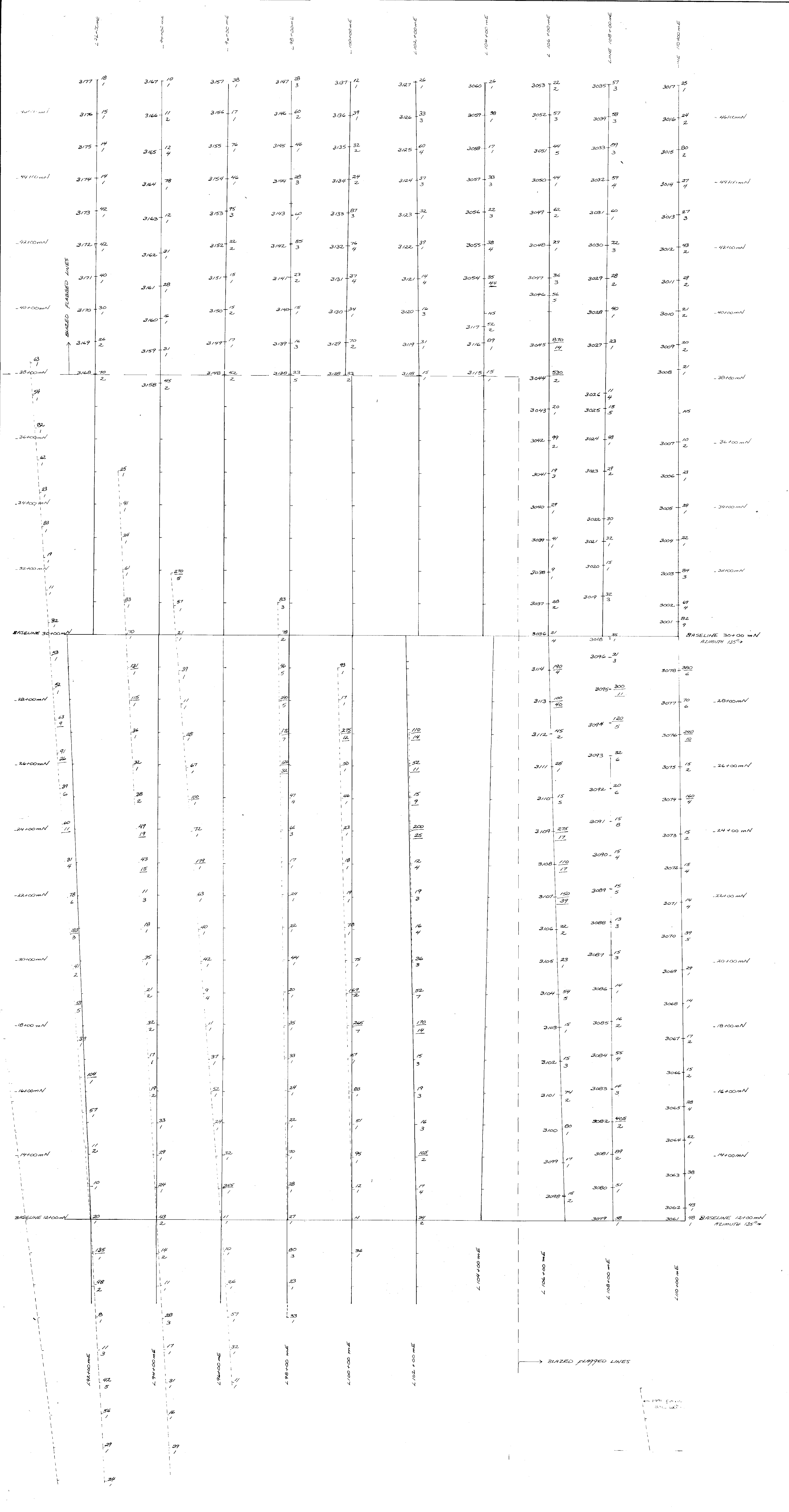
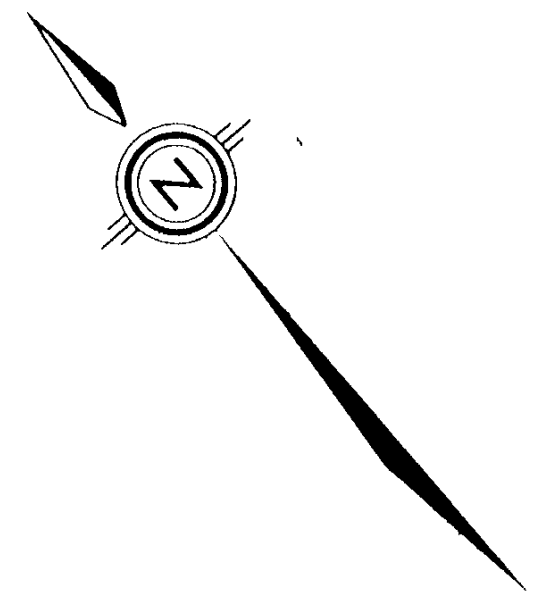
Map # 4  
**SECTION 1**



ESSO MINERALS CANADA	
EAGLE PROJECT	
FAR EAST GRID	
Cu Mo SOIL GEOCHEMISTRY	
PROJECT # 254	MINING DIVISION: LIRD
DATE: JULY 1982	SCALE: 1cm = 30 METRES
NTS: 104 I 6E/1E	DRAWN BY: C.E.

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

10,816



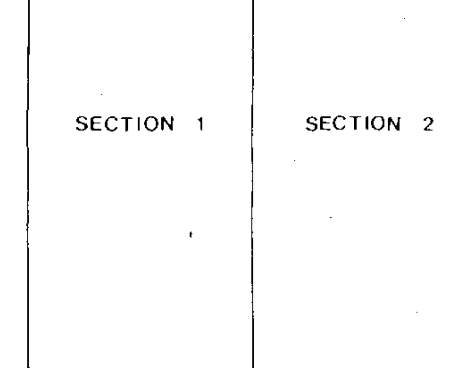
1981 SOIL GEOCHEM

Cu (ppm)  
Zn (ppm)

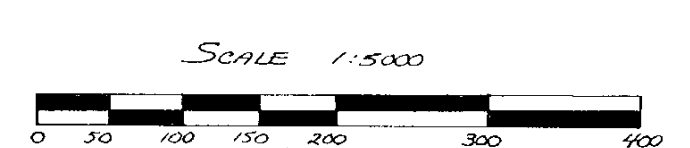
1982 SOIL GEOCHEM

Sample Cu (ppm)  
Number Zn (ppm)

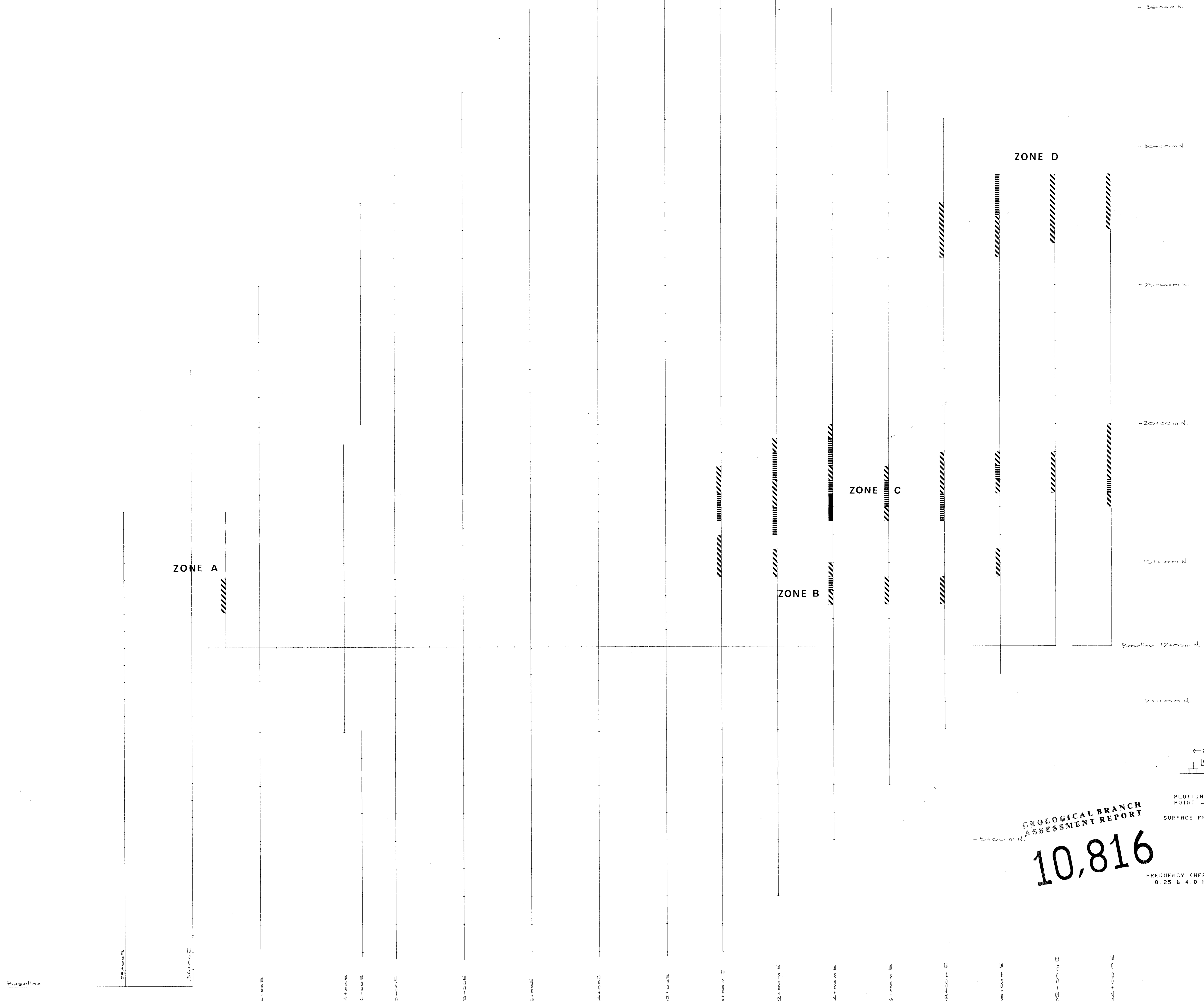
FAR EAST GRID



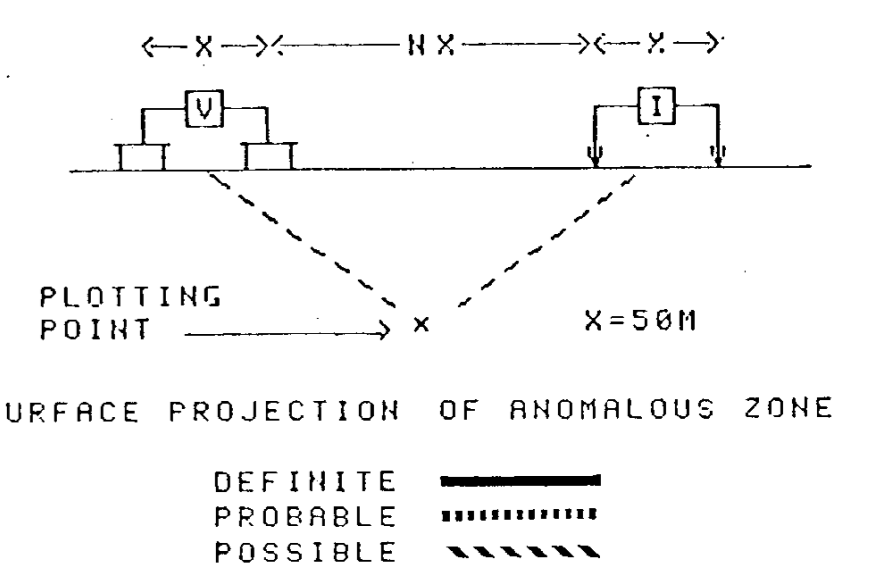
Map #5  
**SECTION 2**



ESSO MINERALS CANADA	
EAGLE PROJECT	
FAR EAST GRID	
Cu Mo SOIL GEOCHEMISTRY	
PROJECT # 2154	TRAINING DIVISION: LWARD
DATE: July 1982	SCALE: 1cm = 50 METERS
NO. 2041 GE/112	DRAWN BY: C.E.



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**  
**10,816**



FREQUENCY (HERTZ) 0.25 & 4.0 HZ. DATE SURVEYED: JULY 1982

ESSO MINERALS CANADA DIV. OF ESSO RESOURCES CANADA LIMITED			
PROSPECT: EAGLE FAR EAST ZONE I. P. SURVEY			
ACCOUNT NO MA57	FILE NO BC57	TORONTO	
SCALE 1:5000	0	200M	DATE NOV '82
AUTHOR Z. DOBORZYNSKI	WIS 104 1/6	DWG NO 6	