

83-#206-# 11163

PHOENIX GEOPHYSICS LIMITED

REPORT ON THE

INDUCED POLARIZATION AND RESISTIVITY SURVEY
AND TOTAL FIELD MAGNETIC SURVEY

ON THE JACKPOT PROJECT

NELSON MINING DIVISION

PROVINCE OF BRITISH COLUMBIA
GEOLOGICAL ASSESSMENT BRANCH
ASSESSMENT REPORT

FOR

11,163

NEW JERSEY ZINC EXPLORATION COMPANY (CANADA) LIMITED

N.T.S. 82F/3

**PART
3 OF 5**

LATITUDE: 49°15' LONGITUDE: 117°09'

BY

PAUL A. CARTWRIGHT, B.Sc., GEOPHYSICIST

FRANK DISPIRITO, B.A.Sc., GEOPHYSICIST

OCTOBER 13, 1981

TABLE OF CONTENTS

	<u>PAGE</u>
<u>PART A:</u> Report	
1. Introduction.....	1
2. Description of Claims	3
3. Presentation of Results.....	4
4. Discussion of Results	5
5. Conclusions and Recommendations	12
6. Assessment Details	15
7. Statement of Cost	16
8. Certificate, Paul A. Cartwright,	17
9. Certificate, Frank DiSpirito.....	18
10. Certificate, David Daggett	19

PART B:

Notes on theory and field procedure (8 pages)

PART C: Illustrations

Plan Maps (in pockets)	DWG. I.P.P.-B-4008
I.P. Data Plots	DWG. M-B-3008
Index Map	DWGS. I.P.-5808-1 to 21
Computed Interpretations, Figures 2, 3, 4, 5, 6, 7.	Figure 1

1) INTRODUCTION

An Induced Polarization and Resistivity Survey has been carried out on the Jackpot Project Grid, in conjunction with a Total Field Magnetic Survey, on behalf of New Jersey Zinc Exploration Company (Canada) Limited.

The Jackpot property is situated approximately 10 kilometers northeast of the community of Salmo, B.C. Access is by all-weather paved highway to a point roughly 3 kilometers south of Ymir, B.C. A bush road then leads 7 to 8 kilometers east to the area of interest.

The claims are underlain by isoclinally folded Lower Cambrian carbonate rocks of the Mural Formation in the South Kootenay Arc.

Two main types of mineralization are present on the claim group; silver-gold together with lead-zinc mineralization is associated with limestone on the west part of the property, while lead-zinc mineralization associated with dolomite occurs on the central and eastern parts of the property. The objective of the present geophysical surveys was to outline any possible extensions of known precious metal occurrences, as well as to detect any previously undiscovered silver-gold deposits. Dolomite hosted lead-zinc mineralization was of secondary importance.

Field work was completed during June and July, 1981 under the supervision of Mr. David Daggett, geophysical crew leader. In addition, P.A. Cartwright visited the project for six days during the course of the surveys.

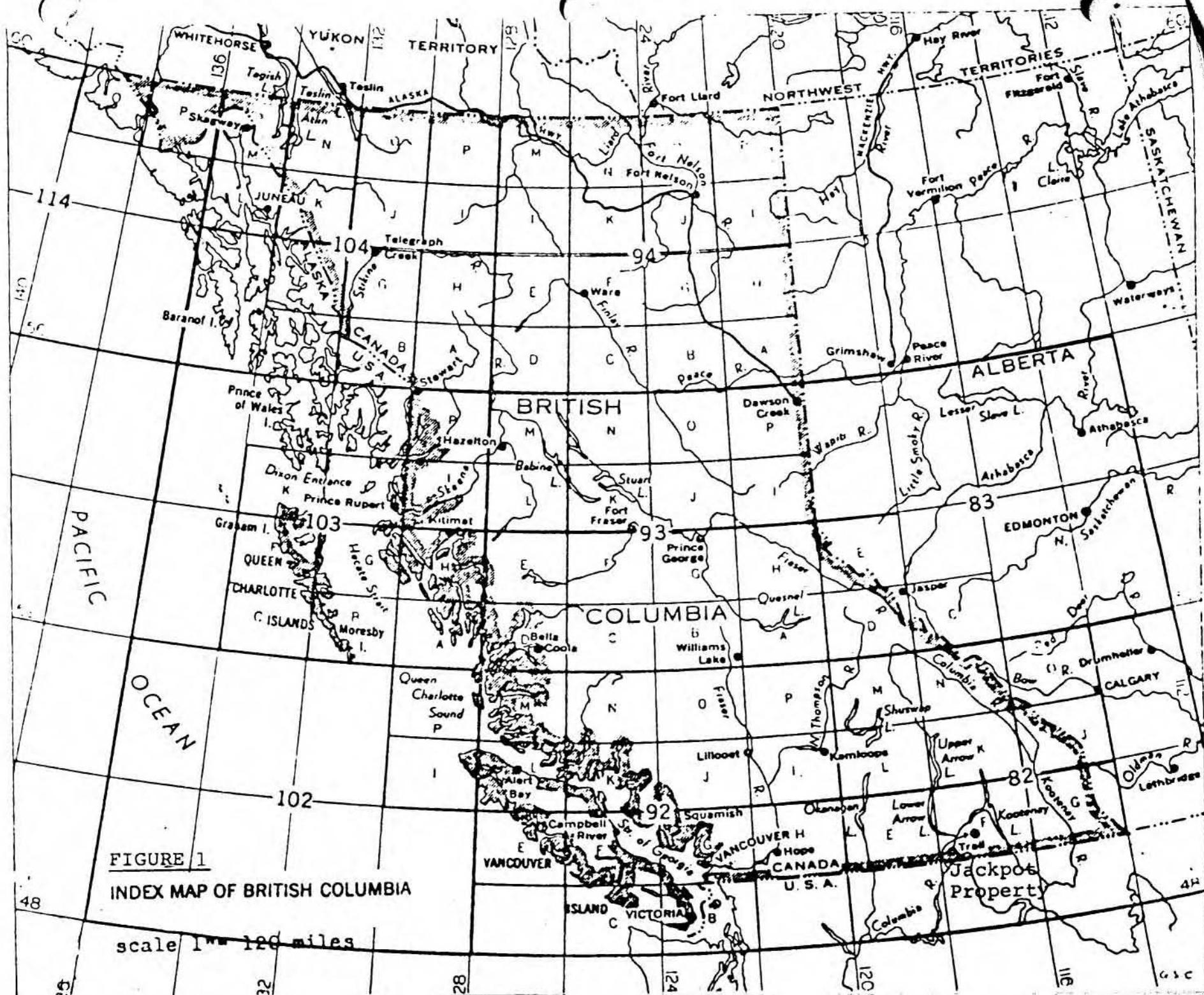


FIGURE 1

INDEX MAP OF BRITISH COLUMBIA

Phoenix Model IPV-1 IP and Resistivity Receiver

Unit was utilized to make the IP and Resistivity measurements in conjunction with a Phoenix Model IPT-1 IP and Resistivity Transmitter unit operating at 4.0 hertz and 0.25 hertz. Dipole-dipole array was employed throughout with a basic inter-electrode distance of 200 feet being used for the reconnaissance work, while a 100 foot dipole length was utilized for detail coverage. IP effects are plotted in units of Percent Frequency Effect (P.F.E.). Apparent resistivity values are normalized in units of ohm-feet/2 PI, and metal factor values are calculated according to the formula: $MF = (P.F.E. \times 1000) / App. Res.$

Magnetic data was collected using a Geometrics Model 816/826 total field magnetometer, reading to \pm one gamma. Diurnal corrections were made using a Geometrics Model 826A Recording Base Station.

2) DESCRIPTION OF CLAIMS

In 1981 at the time of this survey the Jackpot property was comprised of 27 claims totalling 111 contiguous units including 6 crown granted and 21 recorded claims (Table 1, Figure 1A). These claims are wholly owned by New Jersey Zinc Exploration Co. (Canada) Ltd.

The Sepo 1 to 6 claims (record No's 2102-2107 inclusive) were staked in January 1981; subsequently abandoned on July 9, 1981 and restaked as Sharon 1 to 6 (record No's 2373 to 2378 respectively).

The IP survey was carried out on Sepo 2 (now Sharon 2) and all or parts of the Double Standard, Hunter V, Mercia Fraction, Jamesonite Fraction, Ace, Jamesonite and Chief claims.

The location of topographic nomenclature appearing in this text is indicated in Figure 1B.

TABLE I: JACKPOT PROPERTY LAND HOLDINGS

JACKPOT GROUP¹

PREVIOUS STAKING

CROWN GRANTED CLAIMS

<u>NAME (No. of Units)</u> ²	<u>REC/LOT NUMBER</u>	<u>EXPIRY DATES</u>
Hunter V	Lot 2212	Paid 1982*
Double Standard	Lot 2213	Paid 1982*
Mercia Fraction	Lot 2224	Paid 1982*
Eldorado	Lot 5198	Paid 1982*
Chihuahua	Lot 5199	Paid 1982*
Charmencita	Lot 5201	Paid 1982*

RECORDED CLAIMS

Ink Spot	Record 1356	June 9, 1989
Jackpot	Record 1357	June 9, 1990
Ace	Record 1361	June 21, 1989
Jamesonite	Record 1362	June 21, 1989
Elm #5 Fraction	Record 3042	June 6, 1989
Canadian Boy	Record 1370	July 2, 1989
Canadian Girl	Record 1371	July 2, 1990
Two Spot	Record 1375	July 8, 1990
Spot Fraction	Record 1384	Aug. 2, 1989
Rush #1 Fraction	Record 15357	Nov. 20, 1989
Chief	Record 1394	Aug. 10, 1989
Jay	Record 1395	Aug. 10, 1989
Chief Fraction	Record 1396	Aug. 10, 1989
Jay Fraction	Record 1397	Aug. 10, 1989
Jamesonite Fraction	Record 1484	Oct. 18, 1989

1981 STAKING

Sepo 1 (20)	Record 2102	Abandoned on July 9, 1981 and restaked as Sharon 1 to 6 (Record No's. 2373 to 2378 respectively)
Sepo 2 (20)	Record 2103	
Sepo 3 (20)	Record 2104	
Sepo 4 (6)	Record 2105	
Sepo 5 (18)	Record 2106	
Sepo 6 (6)	Record 2107	

* Taxes due July 2nd, annually

1. Notice to group # 2590 and supplemental notice filed;
all claims except Sharon 1 are in the "Jackpot Group"
proper.
2. Pertaining to modified grid claims

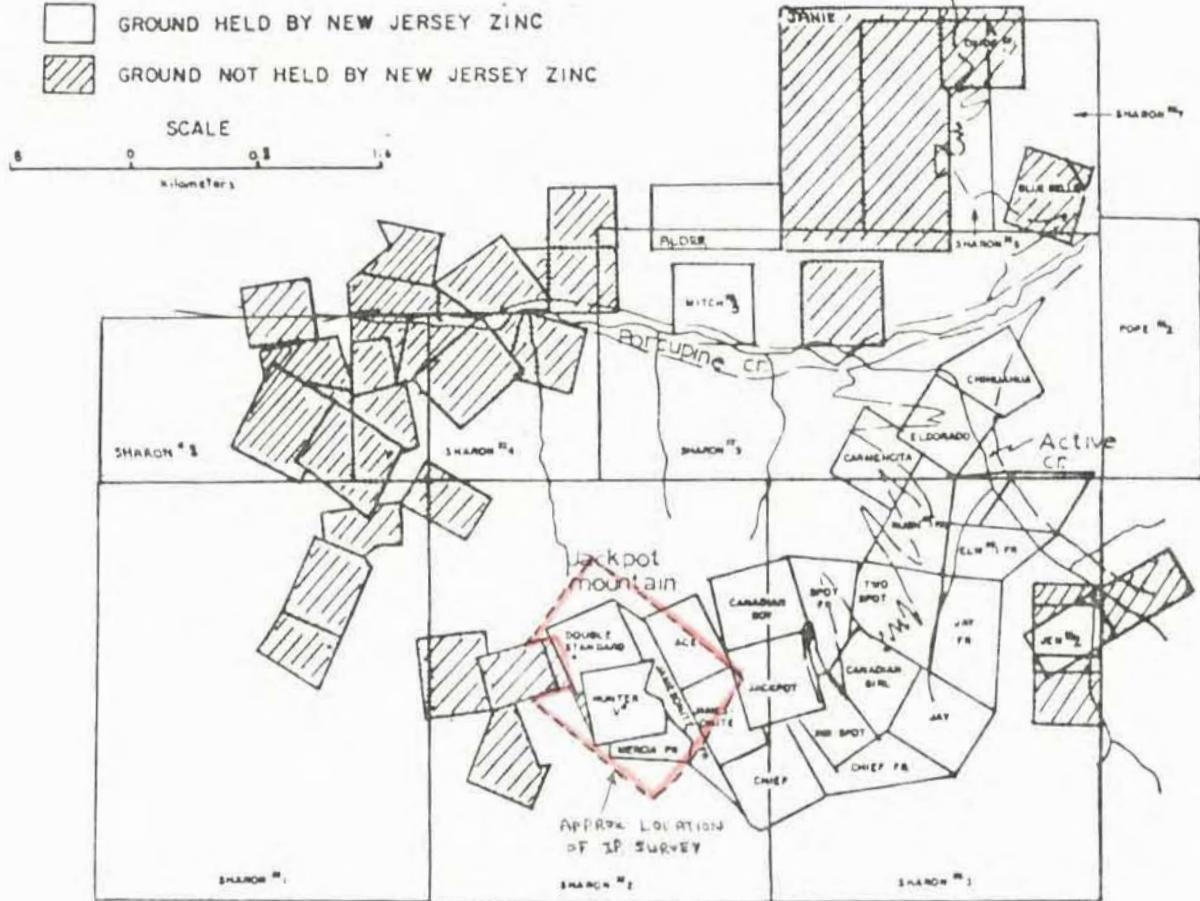


FIGURE 1A - JACKPOT PROPERTY CLAIM GROUP

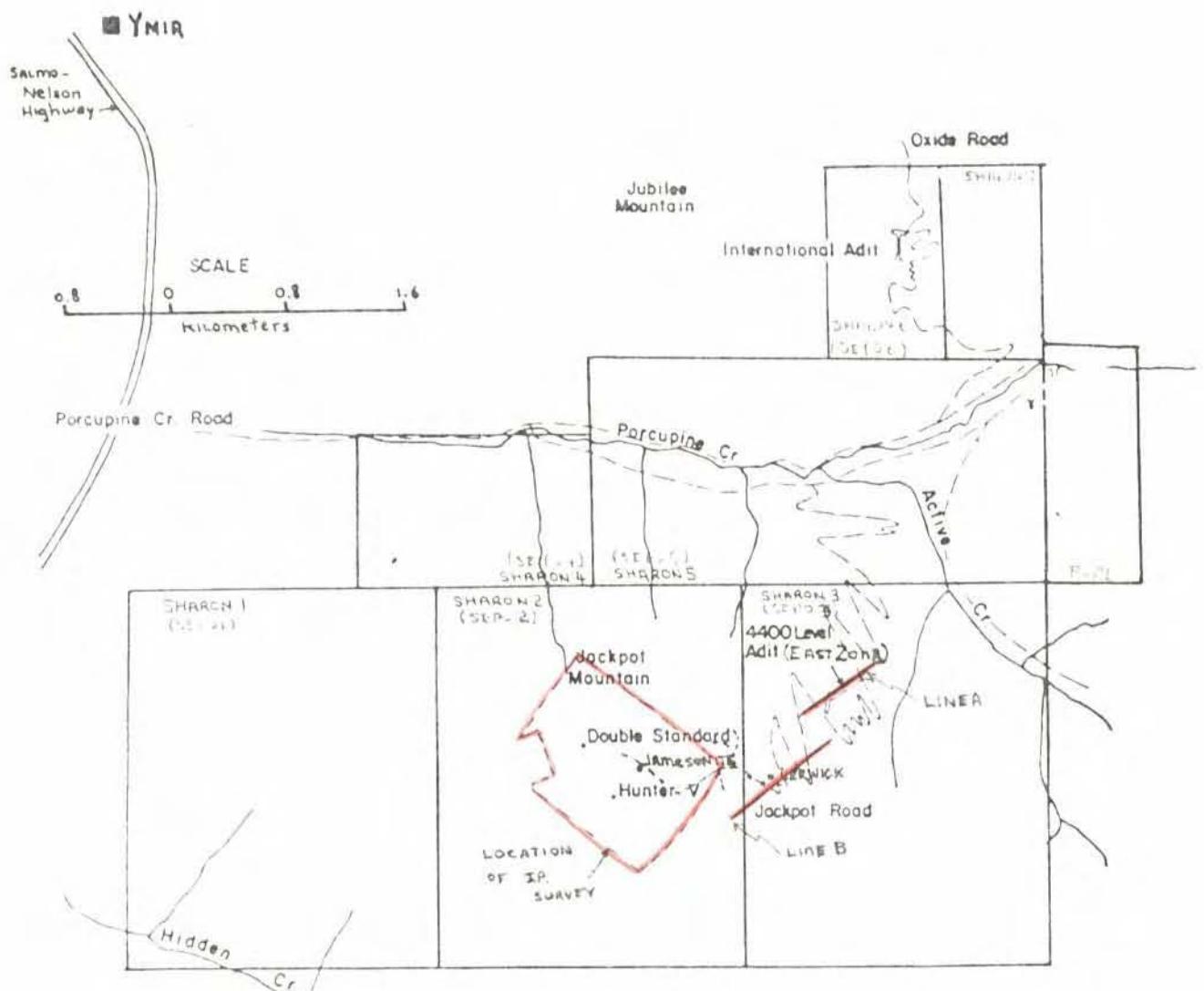


FIGURE 1B: TOPOGRAPHIC NOMENCLATURE (JACKPOT PROPERTY)

3) PRESENTATION OF RESULTS

i) IP and Resistivity

The Induced Polarization and Resistivity results are shown on the following data plots, in the manner described in the notes attached to this report (Part B).

<u>LINE</u>	<u>ELECTRODE INTERVAL</u>	<u>DWG. NO.</u>
24W	200 feet	I.P.-5808-1
22W	100 feet	I.P.-5808-2
20W	200 feet	I.P.-5808-3
16W	200 feet	I.P.-5808-4
16W	100 feet	I.P.-5808-5
14W	100 feet	I.P.-5808-6
12W	200 feet	I.P.-5808-7
10W	100 feet	I.P.-5808-8
8W	200 feet	I.P.-5808-9
4W	200 feet	I.P.-5808-10
4W	100 feet	I.P.-5808-11
2W	100 feet	I.P.-5808-12
0	200 feet	I.P.-5808-13
0	100 feet	I.P.-5808-14
2E	100 feet	I.P.-5808-15
4E	200 feet	I.P.-5808-16
8E	200 feet	I.P.-5808-17
12E	200 feet	I.P.-5808-18
16E	200 feet	I.P.-5808-19
Line A } See Figure 1B	200 feet	I.P.-5808-20
Line B }	200 feet	I.P.-5808-21

Also enclosed with this report is Dwg. I.P.P.-B-4008, a plan map of the Jackpot Grid at a scale of 1"-=200'. The definite, probable and possible Induced Polarization anomalies are indicated by bars, in the manner shown on the legend, on this plan map as well as on the data plots. These bars represent the surface projection of the anomalous zones as interpreted from the location of the transmitter and receiver electrodes when the anomalous values were measured.

Since the Induced Polarization measurement is essentially an averaging process, as are all potential methods, it is frequently difficult to exactly pinpoint the source of an anomaly. Certainly, no anomaly can be located with more accuracy than the electrode interval length; i.e., when using 100 foot electrode intervals the position of a narrow sulphide body can only be determined to lie between two stations 100 feet apart. In order to definitely locate, and fully evaluate, a narrow, shallow source it is necessary to use shorter electrode intervals. In order to locate sources at some depth, larger electrode intervals must be used, with a corresponding increase in the uncertainties of location. Therefore, while the centre of the indicated anomaly probably corresponds fairly well with source, the length of the indicated anomaly along the line should not be taken to represent the exact edges of the anomalous material.

The geological and grid information shown on Dwg. I.P.P.-B-4008 has been taken from maps made available by the staff of New Jersey Zinc Exploration Co. (Canada) Ltd.

ii) Total Field Magnetics

Magnetic data is shown contoured in plan form on Dwg.-M-B-3008, at a scale of 1"=200 feet.

4) DISCUSSION OF RESULTS

i) IP and Resistivity

The Induced Polarization and Resistivity Survey over the Jackpot Grid has recorded a large number of

anomalous responses. It appears that many of these anomalies are caused by metallic sulphides within sedimentary rocks, such as siltstone, which are mapped underlying parts of the area of interest, especially along the northern margin of the favorable limestone-dolomite units. These sediments give rise to moderate to high polarizability values, together with lower than background apparent resistivity measurements. In many cases the most anomalous IP and Resistivity responses seem to correlate with siltstone material. Therefore, this report is mainly concerned with those anomalous IP zones which are recorded within areas mapped as limestone or dolomite. Each trend is shown on Dwg. I.P.P.-B-4008 and is discussed separately below.

I.P. Zone A

This zone appears to outline an extension of the mineralization observed in the Hunter V glory hole. The trend is best seen on three lines; Line 0, Line 2W and Line 4W, and may strike southeast at a greater depth to the vicinity of Line 4E.

Polarizability values within the zone are only moderately anomalous at best, while apparent resistivity readings show only a slight decrease below a highly resistive background level. This probably indicates the mineralization is quite sparse and disseminated in nature.

Computer modelling programs developed by Dr. W. Pelton of Phoenix Geophysics Ltd. were used to calculate the two dimensional slab which best 'fit' the observed data, in order to better determine parameters of the source such as true polarizability, depth, width and horizontal location. Unfortunately, the accuracy of all inversions attempted on the Jackpot data may be reduced because of interference from other polarizable sources lying close to the area of interest. This in turn required the interpreter to assign arbitrary numbers to the margins of the anomalous pattern being investigated in order to achieve a reasonable 'fit'.

However, in spite of these potential problems, model results from Line 0 (Fig. 2), and from Line 4W (Fig. 3) indicate a source displaying a width in the range of 25 feet to 30 feet in both cases, although the depth to the top of the source under Line 4W is considerably less (56 feet vs 101 feet) and the true polarizability is indicated to be at least twice as high as is the case of the source evaluated by the data from Line 0.

I.P. Zone B

This anomalous I.P. trend apparently marks the presence of a mineralized zone, which strikes in a northwesterly direction from the vicinity of Station

COMPUTED INTERPRETATION

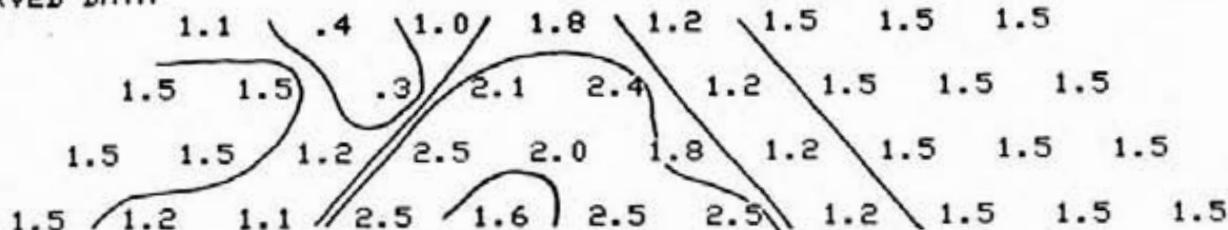
u 4



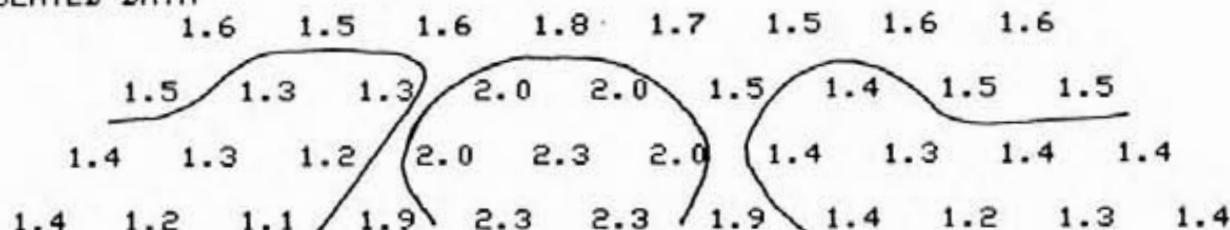
PROPERTY: Jackpot
 LINE: 0
 SPONSOR: New Jersey Zinc
 DATA: P.F.E.
 A = 100 feet

(P)

OBSERVED DATA



CALCULATED DATA



200S 100S BL 100N

CALCULATED SOURCE



PARAMETERS OF CALCULATED SOURCE

CENTER: 37S \pm 2%
 DEPTH: 102 ft \pm 28%
 WIDTH: 27 ft. \pm 22%
 DEPTH
 EXTENT: GRTN \pm Fixed
 200 ft.

RES BODY: 1500 ohm \pm Fixed
 RES OVBN: 4500 ohm \pm Fixed
 RES HOST: /2PI ft \pm Fixed
 IP BODY: /2 PI ft \pm 28%
 IP HOST: 11.0 PFE \pm Fixed
 IP HOST: 1.5 PFE \pm Fixed

Figure 2

COMPUTED INTERPRETATION



PROPERTY: JACKPOT

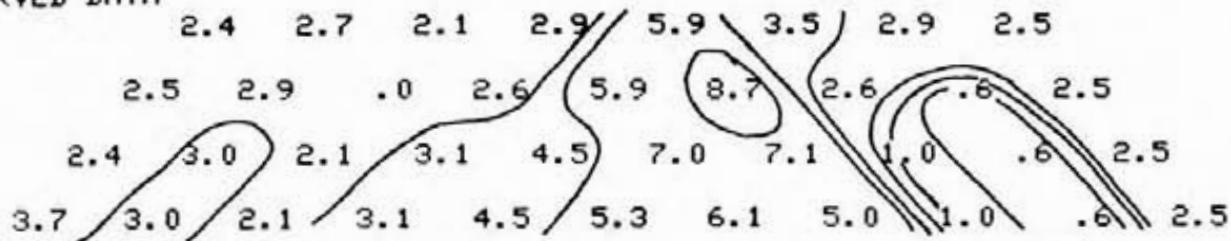
LINE: 4W

SPONSOR: New Jersey Zinc

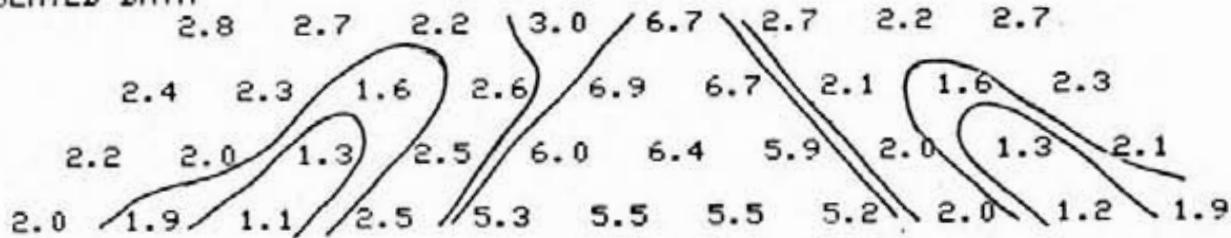
DATA: PFE

A = 100 feet

OBSERVED DATA



CALCULATED DATA



200S 100S BL 100N

CALCULATED SOURCE

PARAMETERS OF
CALCULATED SOURCECENTER: 63S \pm 0.5%DEPTH: 56 ft. \pm 17%WIDTH: 28 ft. \pm 9%DEPTH
EXTENT: GRTN \pm Fixed
200 ft.

RES BODY: $1500 \text{ ohm ft}^{\frac{1}{2}}$ Fixed
 RES OVBN: $5000 \text{ ohm ft}^{\frac{1}{2}}$ Fixed
 RES HOST: $5000 \text{ ohm ft}^{\frac{1}{2}}$ Fixed
 IP BODY: 28 PFE \pm 22%
 IP HOST: 2.5 PFE \pm Fixed

Figure 3

3 + 50S, Line 10W, through the Double Standard glory hole to beyond the area of Line 16W. The interpretation of the anomalous patterns which form this zone is made more difficult by the presence of polarizable and relatively conductive siltstone units lying immediately to the northeast and southwest. When the effects of these sediments are taken into account, the most concentrated mineralization is indicated to be in the vicinity of Line 14W, between Station 300S and Station 200S, where a distinct resistivity low is evident. Computer modelling of the apparent resistivity data recorded on Line 14W was carried out, and the calculated parameters shown on Figure 4 suggest the anomaly source to be approximately 40 feet deep, 35 feet wide and to have a moderately low true resistivity of approximately 120 ohm feet/2 PI; however, any of these values could be substantially in error, due to the large number of arbitrary data points inserted by the interpreter. I.P. data from Line 16W, collected using 100 foot dipole lengths, was computer inverted in an attempt to better locate the source. Again, the absence of a clear pattern necessitated the interpreter assigning a largely arbitrary background, which may reduce the accuracy of the results. These are shown on Figure 5.

COMPUTED INTERPRETATION



PROPERTY: JACKPOT

LINE: 14W

SPONSOR: New Jersey Zinc

DATA: Resistivity ohm - ft./2 PI

A = 100 feet

OBSERVED DATA

3000. 3404. 975. 2889. 3000. 4688. 4038.
 3000. 3900. 1600. 1125. 3156. 3000. 4875. 6369.
 3000. 3900. 1700. 1820. 1163. 3231. 3000. 4500. 3808.
 3000. 3900. 1800. 1880. 1546. 1200. 3808. 3600. 4125. 3858.

CALCULATED DATA

3059. 2980. 1520. 2166. 3037. 3032. 2922.
 3356. 2673. 1459. 1363. 2328. 3457. 3140. 3061.
 3513. 2592. 1588. 1652. 1440. 2468. 3655. 3204. 3142.
 3571. 2597. 1757. 1850. 1793. 1563. 2530. 3738. 3253. 3199.

300S 200S

CALCULATED SOURCE

PARAMETERS OF
CALCULATED SOURCECENTER: 250S \pm 1%DEPTH: 40 ft. \pm 47%WIDTH: 35 ft. \pm 24%

DEPTH: GRTN 200 ft Fixed

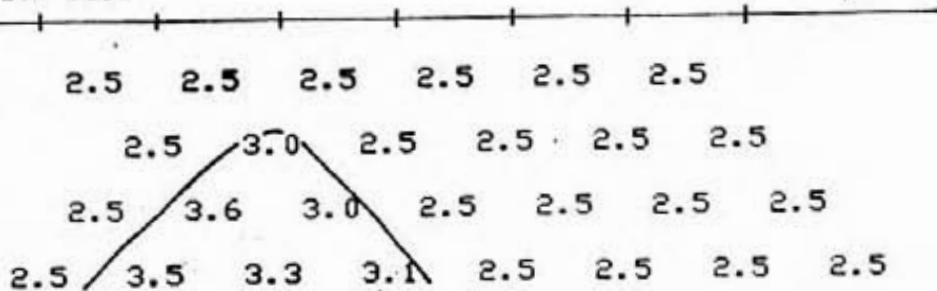
RES BODY:	/2 PI	\pm	60%
RES OVBN:	3000 ohm-ft	\pm	Fixed
RES HOST:	3000 ohm-ft	\pm	Fixed
IP BODY:		\pm	
IP HOST:		\pm	

Figure 4

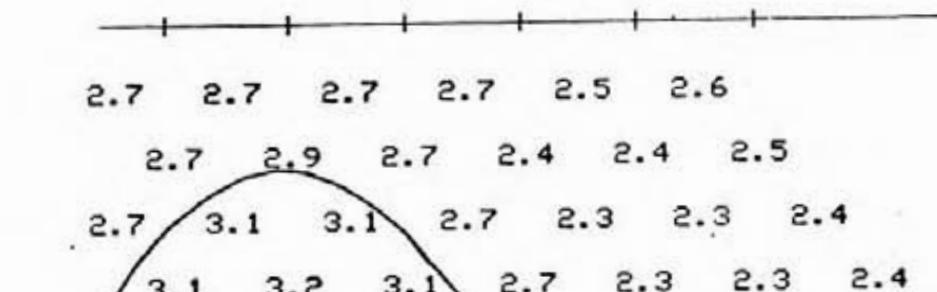
COMPUTED INTERPRETATION

PROPERTY: JACKPOT
 LINE: 16W
 SPONSOR: New Jersey Zinc
 DATA: PFE
 A = 100 feet

OBSERVED DATA



CALCULATED DATA



PARAMETERS OF
CALCULATED SOURCE

CENTER: 200S \pm 1%

DEPTH: 132 ft \pm 12%

WIDTH: 38 ft \pm 16%

DEPTH
EXTENT: GRTN \pm Fixed
200 ft.

RES BODY: $1000 \text{ ohm-ft} \pm$ Fixed
 RES OVRN: $2000 \text{ ohm-ft} \pm$ Fixed
 RES HOST: $2000 \text{ ohm-ft} \pm$ Fixed
 IP BODY: $11.0 \text{ PFE} \pm 19\%$
 IP HOST: $2.5 \text{ PFE} \pm$ Fixed

Figure 5

I.P. Zone C

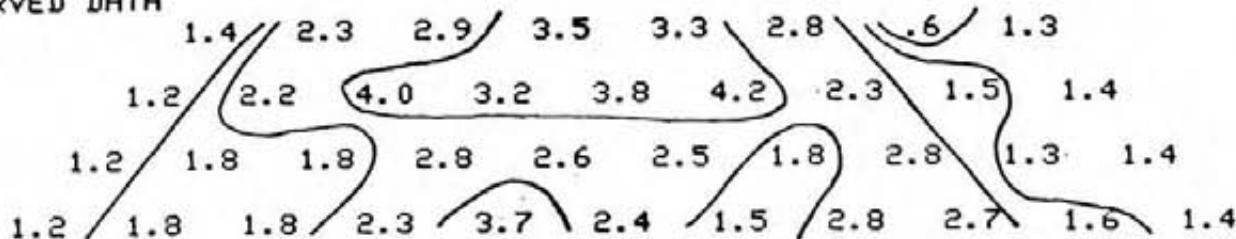
Leucogranite is mapped underlying this possible I.P. Zone which is interpreted to trend from the area of Line 12E to beyond Line 16E, in the vicinity of the baseline. I.P. and resistivity patterns recorded on both lines are, however, affected by the presence of conductive and polarizable siltstones situated just to the north of the I.P. feature, and by a conductive but non-polarizable fault structure striking obliquely across the grid lines in a roughly north-south direction. Additional infill lines and detail coverage using 100 foot or even 50 foot dipole lengths is required to better define I.P. Zone C.

Figure 6 shows a computer model generated using 200 foot dipole polarizability data from Line 12E. A relatively good 'fit' has been achieved between the two data sets, and the source appears to be extremely wide and shallow. One reason which can be advanced for the indicated width being in excess of 700 feet is that the survey line may not be crossing the source mineralization at close to a right angle. Further survey coverage is needed to confirm if the source of I.P. Zone C actually does strike eastward to the area of Line 16E, Station 1 + 00N.

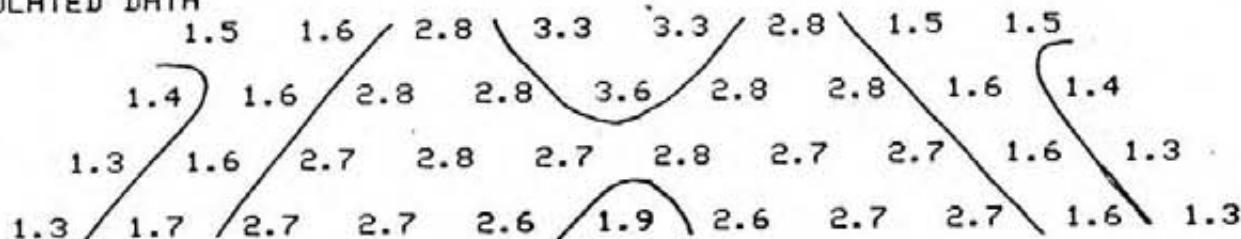
COMPUTED INTERPRETATION

PROPERTY: JACKPOT
 LINE: 12E
 SPONSOR: New Jersey Zinc
 DATA: P.F.E.
 A = 200 ft.

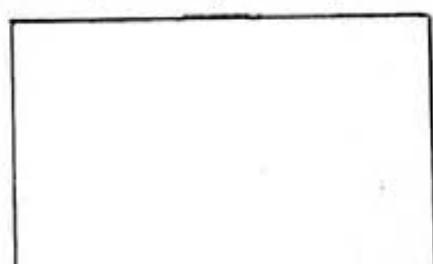
OBSERVED DATA



CALCULATED DATA



CALCULATED SOURCE



PARAMETERS OF CALCULATED SOURCE

CENTER: 200S \pm 1%
 DEPTH: 47 ft \pm 38%
 WIDTH: 745 ft \pm 26%
 DEPTH
 EXTENT: GRTN \pm Fixed
 400 ft

RES BODY:	$\frac{3000}{2}$ PI	\pm	Fixed
RES OVBN:	$\frac{6000}{2}$ PI	\pm	Fixed
RES HOST:	$\frac{6000}{3.3}$ PFE	\pm	18%
IP BODY:	$\frac{1.5}{3.3}$ PFE	\pm	Fixed
IP HOST:	1.5 PFE	\pm	Fixed

Figure 6

I.P. Zone D

This feature is the most anomalous I.P. zone outlined within the favorable limestone-dolomite rocks. Highly anomalous P.F.E. values are recorded, coincident with somewhat lower than background apparent resistivity values, throughout the zone, which appears to lie parallel to and approximately 400 to 500 feet northeast of the baseline, between approximately Line 8W and Line 4E. At this point the source of the zone is indicated to swing towards the northeast to lie almost directly under Line 8E.

It is the author's understanding that lead-zinc mineralization is known to be the principal source of this response. Data recorded in the region of Zone D on Line 0 has been inverted to ascertain the best fitting tabular source, and the results are shown on Figure 7.

Northern Corner of Jackpot Grid

Geological mapping has indicated this area to be of interest. Quartzite units are mapped striking in a northerly direction through an area of siltstone rocks. These sediments give rise to very anomalous polarizability measurements and lower than background apparent resistivity values. Unfortunately, the 200 foot dipole lengths used to survey most of this

COMPUTED INTERPRETATION

PROPERTY: JACKPOT

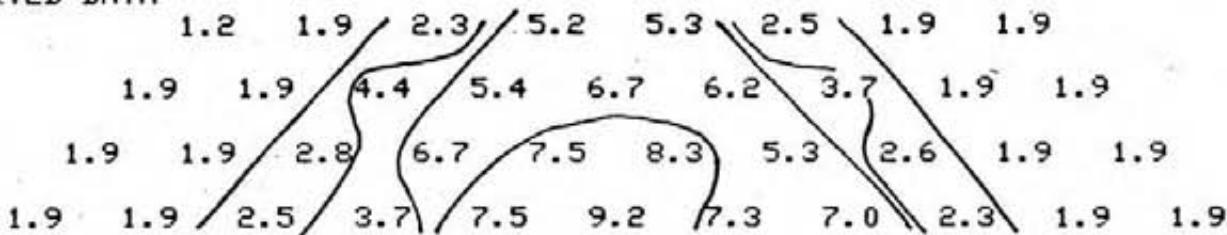
LINE: 00

SPONSOR: New Jersey Zinc

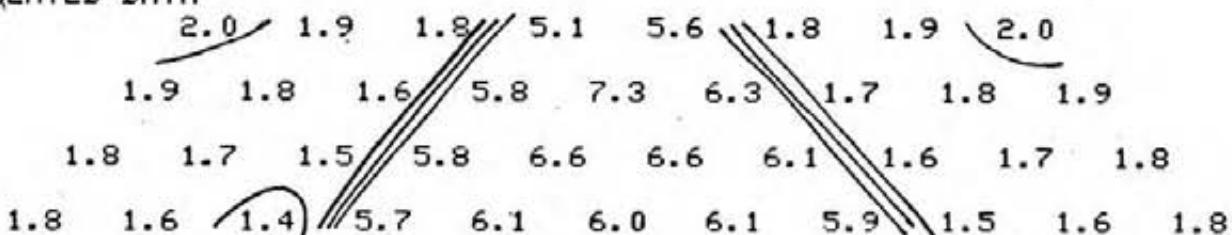
DATA: PFE

A = 100 feet

OBSERVED DATA



CALCULATED DATA



CALCULATED SOURCE

PARAMETERS OF
CALCULATED SOURCE

CENTER: 4 +05N ± 1%
 DEPTH: 27 ft ± 36%
 WIDTH: 62 ft ± 58%
 DEPTH
 EXTENT: GRTN + Fixed
 200 ft.

RES BODY: $\frac{75}{2}$ PI ± 102%
 RES OVBN: $\frac{2000}{2}$ ohm-ft Fixed
 RES HOST: $\frac{2000}{2}$ ohm-ft Fixed
 IP BODY: $\frac{12.0}{2}$ PFE ± 21%
 IP HOST: 2.0 PFE ± Fixed

Figure 7

region do not allow a precise interpretation, although the data does suggest that the quartzites are considerably more resistive than the sediments. However, the former rock units are too narrow to be reliably outlined by the 200 foot dipole lengths.

Line A and Line B

Lines A & B were surveyed across the East Zone and Lerwick ore zones respectively (Figure 1B) to test their IP responses. Strong anomalous IP effects are evident in both data sets, correlating with areas of substantially lower apparent resistivities. The magnitude of these signatures indicate the IP survey is successful in picking up the presence of the known ore zones.

ii) Total Field Magnetic Data

It appears that none of the mapped rock types on the Jackpot grid give rise to a distinctive magnetic signature. Instead, the data is characterized by a number of small, high intensity magnetic anomalies, which obviously are caused by very shallow sources. The causes of these anomalies are not certain as a variety of rock types are noted coincident with the magnetic features. Changes in overburden thickness could be a factor affecting the total observed magnetic intensity.

5) CONCLUSIONS AND RECOMMENDATIONS

An Induced Polarization and Resistivity survey and a Total Field Magnetic Survey have been completed on the Jackpot property.

A number of interesting IP zones are indicated by the data to lie within areas underlain by favorable limestone-dolomite rocks.

I.P. Zone A apparently outlines an extension of mineralization seen in the Hunter V glory hole. Diamond drilling is recommended to test the extension of the zone, with the first hole being located so as to pass through a point approximately 75 feet beneath Station 65S on Line 4W.

Additional IP surveying using 200 foot dipoles is required on Line 2E to confirm a deeper extension of the source of IP Zone A.

I.P. Zone B appears to indicate an extension of the mineralization seen in the Double Standard glory hole. Diamond drilling is recommended with the initial hole spotted to pass through a point approximately 75 feet beneath Station 250S on Line 14W.

Additional IP and Resistivity coverage using 100 foot dipoles should be completed on Line 18W, to confirm the northwestern limit of IP Zone B.

I.P. Zone C

Initially, detailed IP and Resistivity surveying using 100 foot dipole lengths is required on Line 10E and Line 14E, to determine the true strike direction of this zone. A drilling target could then be suggested.

I.P. Zone D

Previously investigated lead-zinc mineralization may be the source of this response. If drilling is contemplated to test the source of this zone, a diamond drill hole located to pass through the region approximately 50 feet beneath Station 4+05S is suggested.

Other areas of interest such as the northern corner of the grid area require more detailed IP and Resistivity coverage before one can outline continuous zones of anomalous IP effects. It may be necessary to use even 50 foot dipoles in the region to separate between anomalies due to sediments, as opposed to other sources. For the same reason, accurate geological mapping is required to assist any geophysical interpretation.

The magnetic data collected on the Jackpot grid does not appear to outline any specific rock types. A number of higher magnitude, near surface anomalies, are recorded, which could be checked in the field to establish

the possible importance of these features.

PHOENIX GEOPHYSICS LIMITED

Paul A. Cartwright

Paul A. Cartwright, B.Sc.,
Geophysicist.



Frank DiSpirito
Frank DiSpirito, B.A. & B.S.I.E.
Geophysicist.

DATED: 13 October 1981

ASSESSMENT DETAILS

PROPERTY: Jackpot Project

MINING DIVISION: Nelson

SPONSOR: New Jersey Zinc Exploration
Company (Canada) Limited

PROVINCE: British Columbia

LOCATION: Northeast of Salmo

TYPE OF SURVEY: Induced Polarization and Resistivity,
Total Field Magnetics

OPERATING MAN DAYS: 70.0

DATE STARTED: 17 June 1981

EQUIVALENT 8 HR. MAN DAYS: 105.0

DATE FINISHED: 13 July 1981

CONSULTING MAN DAYS: 14

NUMBER OF STATIONS: IP-387
MAG-1232

DRAFTING MAN DAYS: 8.0

NUMBER OF READINGS: IP-3231
MAG-1232

TOTAL MAN DAYS: 127.00

KILOMETERS OF LINE SURVEYED:
IP-17.3
MAG-19.5

CONSULTANTS:

Paul A. Cartwright, 4238 W. 11th Avenue, Vancouver, B.C.
Frank DiSpirito, 2748 Oxford Street, Vancouver, B.C.

FIELD TECHNICIANS:

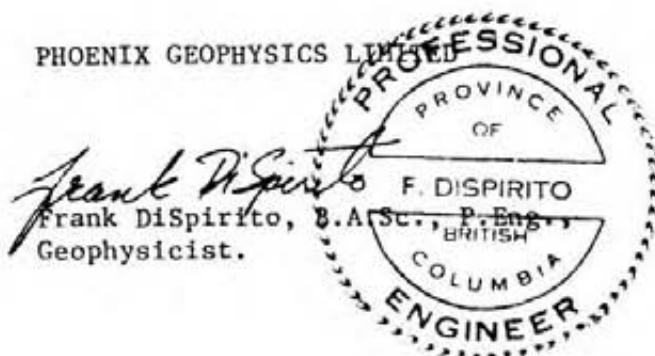
David Daggett, 35 Falcon Crescent, Chelmsford, Ontario.
Ken Irving, 197 Mount Pleasant Road, St. John, New Brunswick.
Craig Pawluk, 200 Yorkland Blvd., Willowdale, Ontario.
Robert Bulger, RR #2, Gibsons, B.C.

DRAUGHTSMEN:

Ron Wakaluk, 7886 Vivian Drive, Vancouver, B.C.

PHOENIX GEOPHYSICS LTD.

Frank DiSpirito
F. DISPIRITO
Frank DiSpirito, B.A.Sc., P.Eng.
Geophysicist.



DATED: 13 October 1981

STATEMENT OF COST

NEW JERSEY ZINC EXPLORATION COMPANY (CANADA) LIMITED IP AND RESISTIVITY SURVEY, TOTAL FIELD MAGNETOMETER SURVEY JACKPOT PROJECT NORTHEAST OF SALMO, BRITISH COLUMBIA

Period: June 17, 1981 to July 13, 1981.

Crew: D. Daggett, C. Pawluk, K. Irving, R. Bulger

i) IP and Resistivity

20.5	Operating Days	@ \$935.00/day	\$ 19,167.50
3.5	Bad Weather Days	@ \$635.00/day	2,222.50
1.0	Organization Days	@ \$635.00/day	635.00
1.5	Breakdown Days	@ N.C.	NC

ii) Magnetics

19.5	line kilometers	@ \$120.00/l.k.	2,340.00
Magnetometer Base Station Rental			1,374.25
Mobilization - Demobilization			1,985.00
Expenses - P.A. Cartwright			95.60
Preparation of Report on Results			2,500.00
			<u>\$ 30,319.85</u>

PHOENIX GEOPHYSICS LIMITED



DATED: 13 October 1981

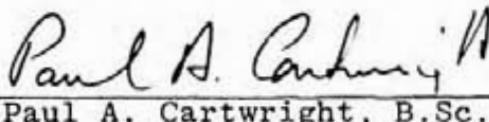
CERTIFICATE

I, Paul A. Cartwright, of the City of Vancouver,
Province of British Columbia, do hereby certify that:

1. I am a geophysicist residing at 4238 West 11th avenue, Vancouver, B.C.
2. I am a graduate of the University of British Columbia, B.C., with a B.Sc., Degree.
3. I am a member of the Society of Exploration Geophysicists and the European Association of Exploration Geophysicists.
4. I have been practising my profession for 11 years.
5. I have no direct or indirect interest, nor do I expect to receive any interest directly or indirectly, in the property or securities of New Jersey Zinc Exploration Company (Canada) Ltd., or any affiliate.
6. The statements made in this report are based on a study of published geological literature and unpublished private reports.
7. Permission is granted to use in whole or in part for assessment and qualification requirements but not for advertising purposes.

DATED AT VANCOUVER, B.C.

this 13th day of October 1981.


Paul A. Cartwright, B.Sc.

CERTIFICATE

I, Frank DiSpirito, of the City of Vancouver,
Province of British Columbia, do hereby certify that:

1. I am a geophysicist residing at 2748 Oxford Street, Vancouver, B.C.
2. I am a graduate of the University of British Columbia with a B.A.Sc. Degree in Geological Engineering.
3. I am a Professional Engineer registered in the Province of British Columbia.
4. I have been practising my profession for 7 years.
5. I have no direct or indirect interest, nor do I expect to receive any interest directly or indirectly, in the property or securities of New Jersey Zinc Exploration Company (Canada) Ltd. or any affiliate.
6. The statements made in this report are based on a study of published geological literature and unpublished private reports.
7. Permission is granted to use in whole or in part for assessment and qualification requirements but not for advertising purposes.

DATED AT VANCOUVER, B.C.

this 13th day of October 1981.



CERTIFICATE

I, David Daggett, of the City of Chelmsford,
Province of Ontario, do hereby certify that:

1. I am a geophysical crew leader residing at
35 Falcon Crescent, Chelmsford, Ontario.
2. I am a graduate of Cambrian College in
Geological Technology.
3. I have been practising my vocation about three
years.
4. I am presently employed as a geophysical
crew leader by Phoenix Geophysics Ltd. of
200 Yorkland Blvd., Willowdale, Ontario.

DATED AT VANCOUVER, B.C.
this 13th day of October 1981.

David Daggett

PHOENIX GEOPHYSICS LIMITED

NOTES ON THE THEORY, METHOD OF FIELD OPERATION, AND PRESENTATION OF DATA FOR THE INDUCED POLARIZATION METHOD

Induced Polarization as a geophysical measurement refers to the blocking action or polarization of metallic or electronic conductors in a medium of ionic solution conduction.

This electro-chemical phenomenon occurs wherever electrical current is passed through an area which contains metallic minerals such as base metal sulphides. Normally, when current is passed through the ground, as in resistivity measurements, all of the conduction takes place through ions present in the water content of the rock, or soil; i.e. by ionic conduction. This is because almost all minerals have a much higher specific resistivity than ground water. The group of minerals commonly described as "metallic", however, have specific resistivities much lower than ground waters. The induced polarization effect takes place at those interfaces where the mode of conduction changes from ionic in the solutions filling the interstices of the rock to electronic in the metallic minerals present

in the rock.

The blocking action or induced polarization mentioned above, which depends upon the chemical energies necessary to allow the ions to give up or receive electrons from the metallic surface, increases with the time that a d.c. current is allowed to flow through the rock; i.e. as ions pile up against the metallic interface the resistance to current flow increases. Eventually, there is enough polarization in the form of excess ions at the interfaces, to appreciably reduce the amount of current flow through the metallic particle. This polarization takes place at each of the infinite number of solution-metal interfaces in a mineralized rock.

When the d.c. voltage used to create this d.c. current flow is cut off, the Coulomb forces between the charged ions forming the polarization cause them to return to their normal position. This movement of charge creates a small current flow which can be measured on the surface of the ground as a decaying potential difference.

From an alternate viewpoint it can be seen that if the direction of the current through the system is reversed repeatedly before the polarization occurs, the effective resistivity of the system as a whole will change as the frequency of the switching is changed. This is a consequence of the fact that the amount of current flowing through each metallic interface depends upon the length of time that current has been passing through it in one direction.

The values of the per cent frequency effect or F.E. are a measurement of the polarization in the rock mass. However, since the measurement of the degree of polarization is related to the apparent resistivity of the rock mass it is found that the metal factor values or M.F. are the most useful values in determining the amount of polarization present in the rock mass. The MF values are obtained by normalizing the F.E. values for varying resistivities.

The induced polarization measurement is perhaps the most powerful geophysical method for the direct detection of metallic sulphide mineralization, even when this mineralization is of very low concentration. The lower limit of volume per cent sulphide necessary to produce a recognizable IP anomaly will vary with the geometry and geologic environment of the source, and the method of executing the survey. However, sulphide mineralization of less than one per cent by volume has been detected by the IP method under proper geological conditions.

The greatest application of the IP method has been in the search for disseminated metallic sulphides of less than 20% by volume. However, it has also been used successfully in the search for massive sulphides in situations where, due to source geometry, depth of source, or low resistivity of surface layer, the EM method cannot be successfully applied. The ability to differentiate ionic conductors, such as water filled shear zones, makes the IP method a useful tool in checking EM

anomalies which are suspected of being due to these causes.

In normal field applications the IP method does not differentiate between the economically important metallic minerals such as chalcopyrite, chalcocite, molybdenite, galena, etc., and the other metallic minerals such as pyrite. The induced polarization effect is due to the total of all electronic conducting minerals in the rock mass. Other electronic conducting materials which can produce an IP response are magnetite, pyrolusite, graphite, and some forms of hematite.

In the field procedure, measurements on the surface are made in a way that allows the effects of lateral changes in the properties of the ground to be separated from the effects of vertical changes in the properties. Current is applied to the ground at two points in distance (X) apart. The potentials are measured at two points (X) feet apart, in line with the current electrodes is an integer number (n) times the basic distance (X).

The measurements are made along a surveyed line, with a constant distance (nX) between the nearest current and potential electrodes. In most surveys, several traverses are made with various values of (n); i.e. (n) = 1,2,3,4, etc. The kind of survey required (detailed or reconnaissance) decides the number of values of (n) used.

In plotting the results, the values of apparent resistivity, apparent per cent frequency effect, and the apparent metal factor

measured for each set of electrode positions are plotted at the intersection of grid lines, one from the center point of the current electrodes and the other from the center point of the potential electrodes. (See Figure A.) The resistivity values are plotted at the top of the data profile, above the metal factor values. On a third line, below the metal factor values, are plotted the values of the percent frequency effect. The lateral displacement of a given value is determined by the location along the survey line of the center point between the current and potential electrodes. The distance of the value from the line is determined by the distance (nX) between the current and potential electrodes when the measurement was made.

The separation between sender and receiver electrodes is only one factor which determines the depth to which the ground is being sampled in any particular measurement. The plots then, when contoured, are not section maps of the electrical properties of the ground under the survey line. The interpretation of the results from any given survey must be carried out using the combined experience gained from field results, model study results and the theoretical investigations. The position of the electrodes when anomalous values are measured is important in the interpretation.

In the field procedure, the interval over which the potential differences are measured is the same as the interval over which the electrodes are moved after a series of potential readings has been made.

One of the advantages of the induced polarization method is that the same equipment can be used for both detailed and reconnaissance surveys merely by changing the distance (X) over which the electrodes are moved each time. In the past, intervals have been used ranging from 25 feet to 2000 feet for (X). In each case, the decision as to the distance (X) and the values of (n) to be used is largely determined by the expected size of the mineral deposit being sought, the size of the expected anomaly and the speed with which it is desired to progress.

The diagram in Figure A demonstrates the method used in plotting the results. Each value of the apparent resistivity, apparent metal factor, and apparent per cent frequency effect is plotted and identified by the position of the four electrodes when the measurement was made. It can be seen that the values measured for the larger values of (n) are plotted farther from the line indicating that the thickness of the layer of the earth that is being tested is greater than for the smaller values of (n); i.e. the depth of the measurement is increased.

The IP measurement is basically obtained by measuring the difference in potential or voltage (ΔV) obtained at two operating frequencies. The voltage is the product of the current through the ground and the apparent resistivity of the ground. Therefore in field situations where the current is very low due to poor electrode contact, or the apparent resistivity is very low, or a combination of the two effects; the value of (ΔV) the change in potential will be too small to be measurable. The symbol "TL" on the data plots indicates this situation.

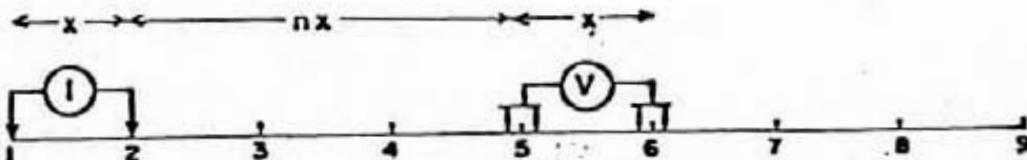
In some situations spurious noise, either man made or natural, will render it impossible to obtain a reading. The symbol "N" on the data plots indicates a station at which it is too noisy to record a reading. If a reading can be obtained, but for reasons of noise there is some doubt as to its accuracy, the reading is bracketed in the data plot ().

In certain situations negative values of Apparent Frequency Effect are recorded. This may be due to the geologic environment or spurious electrical effects. The actual negative frequency effect value recorded is indicated on the data plot, however, the symbol "NEG" is indicated for the corresponding value of Apparent Metal Factor. In contouring negative values the contour lines are indicated to the nearest positive value in the immediate vicinity of the negative value.

The symbol "NR" indicates that for some reason the operator did not attempt to record a reading although normal survey procedures would suggest that one was required. This may be due to inaccessible topography or other similar reasons. Any symbol other than those discussed above is unique to a particular situation and is described within the body of the report.

PHOENIX GEOPHYSICS LIMITED.

METHOD USED IN PLOTTING DIPOLE-DIPOLE
INDUCED POLARIZATION AND RESISTIVITY RESULTS



Stations on line

x = Electrode spread length
 n = Electrode separation

	1	2	3	4	5	6	7	8	9
$n = 1$		P	P	P	P	P	P	P	
		1,2-3,4	2,3-4,5	3,4-5,6	4,5-6,7	5,6-7,8	6,7-8,9		
$n = 2$		P	P	P	P	P	P		
		1,2-4,5	2,3-5,6	3,4-6,7	4,5-7,8	5,6-8,9			
$n = 3$		P	P	P	P				
		1,2-5,6	2,3-6,7	3,4-7,8	4,5-8,9				
$n = 4$		P	P	P					
		1,2-6,7	2,3-7,8	3,4-8,9					

Apparent Resistivity

	1	2	3	4	5	6	7	8	9
$n = 1$		M.F.	M.F.	M.F.	M.F.	M.F.	M.F.		
		1,2-3,4	2,3-4,5	3,4-5,6	4,5-6,7	5,6-7,8	6,7-8,9		
$n = 2$		M.F.	M.F.	M.F.	M.F.	M.F.	M.F.		
		1,2-4,5	2,3-5,6	3,4-6,7	4,5-7,8	5,6-8,9			
$n = 3$		M.F.	M.F.	M.F.	M.F.				
		1,2-5,6	2,3-6,7	3,4-7,8	4,5-8,9				
$n = 4$		M.F.	M.F.	M.F.					
		1,2-6,7	2,3-7,8	3,4-8,9					

Apparent Metal Factor

	1	2	3	4	5	6	7	8	9
$n = 1$		F.E.	F.E.	F.E.	F.E.	F.E.	F.E.		
		1,2-3,4	2,3-4,5	3,4-5,6	4,5-6,7	5,6-7,8	6,7-8,9		
$n = 2$		F.E.	F.E.	F.E.	F.E.	F.E.			
		1,2-4,5	2,3-5,6	3,4-6,7	4,5-7,8	5,6-8,9			
$n = 3$		F.E.	F.E.	F.E.	F.E.				
		1,2-5,6	2,3-6,7	3,4-7,8	4,5-8,9				
$n = 4$		F.E.	F.E.	F.E.					
		1,2-6,7	2,3-7,8	3,4-8,9					

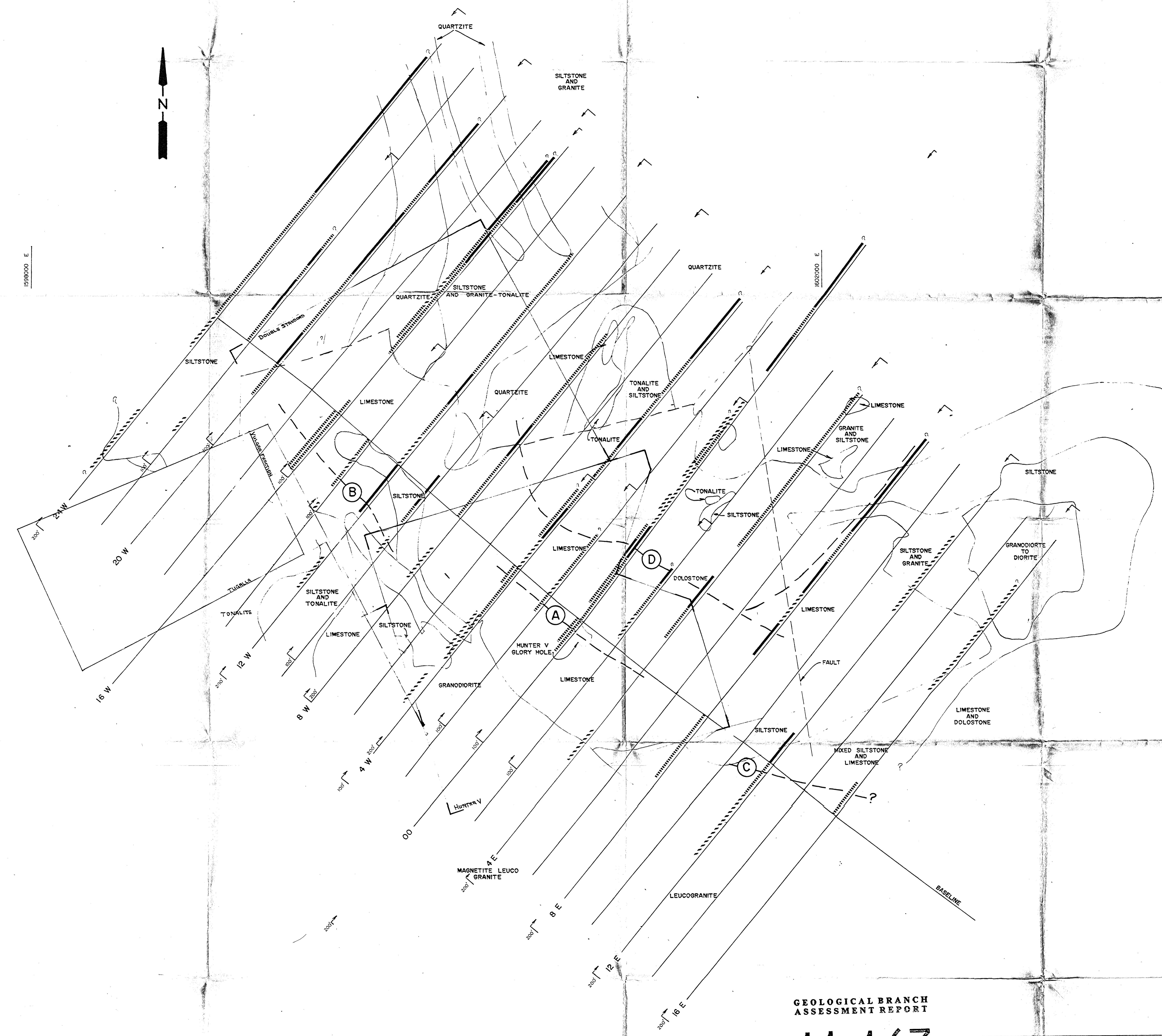
Apparent Percent Frequency Effect

Fig. A

PHOENIX GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY

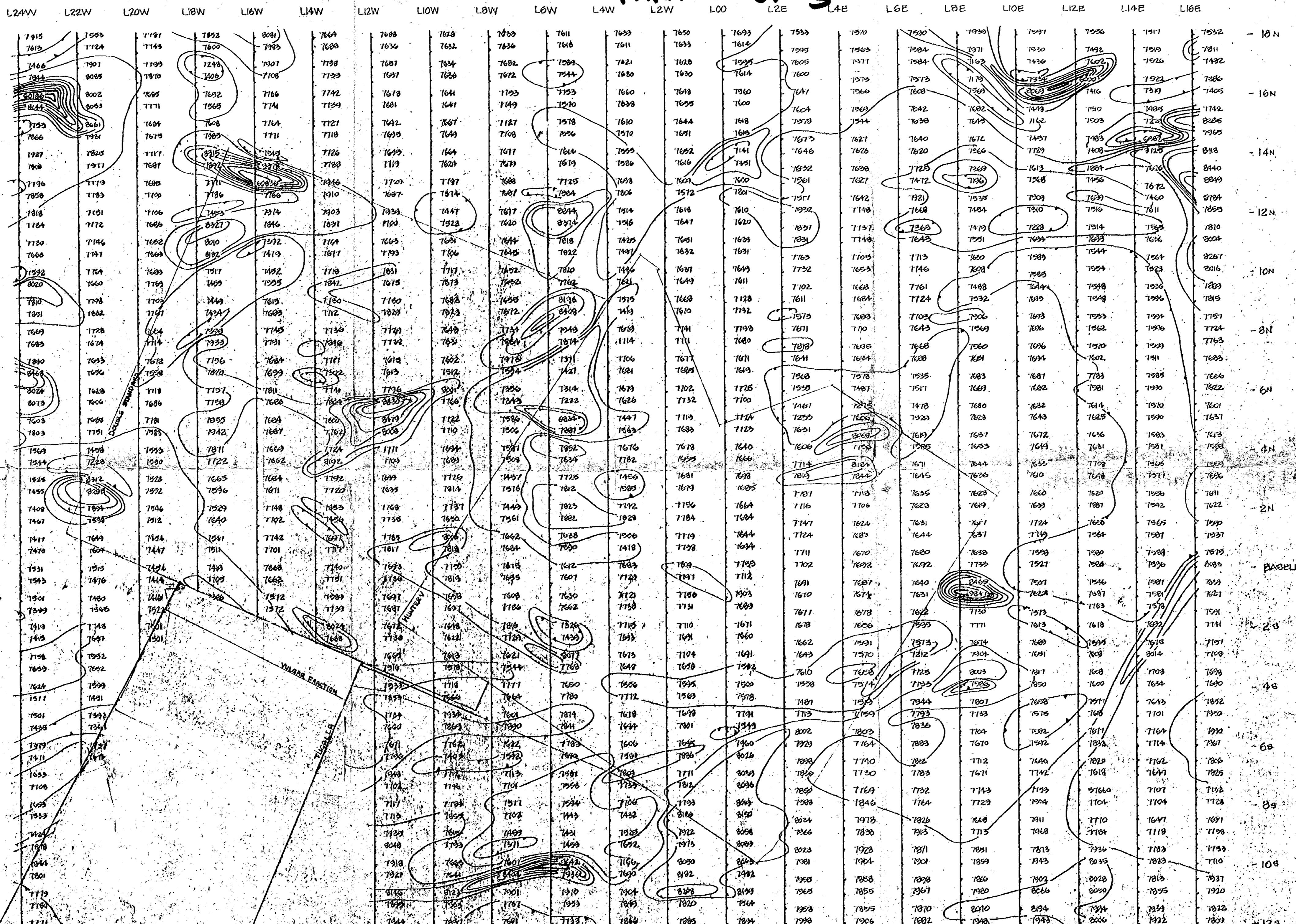
PLAN MAP



PHOENIX GEOPHYSICS LIMITED
ASSESSMENT BRANCH
TOTAL FIELD MAGNETOMETER SURVEY

PLAN MAP

11,163
PART 3 OF 5



NOTE: TO ACCOMPANY GEOPHYSICAL REPORT
FOR NEW JERSEY ZINC EXPL. CO.
LTD. JACKPOT PROPERTY, NELSON
M.D. BY PAUL CARTWRIGHT,
B.Sc. GEOPHYSICIST.
DATED: 06/13/1981.

SCALE: 1:200

0' 50' 100' 150'

NEW JERSEY ZINC EXPL. CO. (CANADA) LTD.
JACKPOT PROPERTY, NELSON M.D.
SALMO, BRITISH COLUMBIA

FIELD READING = PLOTTED VALUE + 50000 GAMMAS
(EXCEPT WHERE NOTED)

CONTOUR INTERVAL = 200 GAMMAS

DRAWING NO. G.W.M.
DATE: JULY 30, 1981
APPROVED: D.G.
DATA: D.G.

NEW JERSEY ZINC JACKPOT LEAD N=300F PHO (SHII-FT/2PI)

CAS NO. 1 P-508-1

DIPOLE NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14
COORDINATE	8005	4005	0	4006	4006	10006	10006	10006	10006	10006	10006	10006	10006	10006

INTERPRETATION

N=1	3608	2520	3000	2376	2095	1672	1765	1540	1000	456	325	379	503	N=1
N=2	3206	4050	3546	3100	2211	2760	1672	1900	1056	1412	1668	181	1600	N=2
N=3	3540	5052	3635	2472	2710	3740	2090	1316	1632	780	392	242	172	N=3
N=4	4272	4725	3967	3647	3640	1646	1500	1727	783	1037	456	215		N=4
N=5														N=5
N=6														N=6
N=7														N=7
N=8														N=8
N=9														N=9
N=10														N=10
N=11														N=11
N=12														N=12
N=13														N=13
N=14														N=14

NEW JERSEY ZINC JACKPOT LEAD N=300F PFE

DIPOLE NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14
COORDINATE	8005	4005	0	4006	4006	10006	10006	10006	10006	10006	10006	10006	10006	10006

INTERPRETATION

N=1	4.8	5.3	1.5	8.2	2.5	4.4	2.6	7.0	8	3.2	6.5	8.1	6.2	N=1	
N=2	7	3.1	2.9	1.1	2.5	4	6.4	6.2	9.4	10	5.2	6.5	10	8	N=2
N=3	2.5	1.2	3	3.4	4.6	6.2	4.6	7.4	11	3	8.4	7.5	7.5	11	N=3
N=4	2.4	2.2	2.2	4.6	6.1	5.1	5.6	5.6	11	11	5.6	7	9	11	N=4
N=5															N=5
N=6															N=6
N=7															N=7
N=8															N=8
N=9															N=9
N=10															N=10
N=11															N=11
N=12															N=12
N=13															N=13
N=14															N=14

NEW JERSEY ZINC JACKPOT LEAD N=300F METAL FACTOR

DIPOLE NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14
COORDINATE	8005	4005	0	4006	4006	10006	10006	10006	10006	10006	10006	10006	10006	10006

INTERPRETATION

N=1	1.2	1.3	.5	.5	1.1	2.4	5.7	5.1	8	20	26	21	15	N=1	
N=2	9	.8	.9	.4	1.1	1.4	3.4	3.9	11.7	7.2	7.3	15.3	17	N=2	
N=3	.7	.6	.6	1	1.7	2.7	2	8.1	6.6	17	9	22	30	N=3	
N=4	.6	.5	1.1	1.5	1.7	1.9	2.7	2.7	5	17	22	22	15	N=4	
N=5															N=5
N=6															N=6
N=7															N=7
N=8															N=8
N=9															N=9
N=10															N=10
N=11															N=11
N=12															N=12
N=13															N=13
N=14															N=14

NEW JERSEY ZINC EX COCCAN LTD

JACKPOT PROPERTY NELSON M.D.

SPM-1-BRITISH COLUMBIA

GEOLOGICAL BRANCH ASSESSMENT REPORT

11,163

PART
3 OF 5

PLOTTING POINT N=200FT

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE -----
PROBABLE
POSSIBLE * * * *

FREQUENCY -HEPTIC
4 0 0 25
DATE SURVEYED JUNE 1981
APPROVED

NOTE - CONTOURS
AT LOGARITHMIC
INTERVALS 1-1.5
-2-3-5-7-5-10

DATE AUG 26/81

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION
AND RESISTIVITY SURVEY

DONG NO. - I P - 5806-2

NEW JERSEY ZINC EX CO(CAN) LTD

JACKPOT PROPERTY: NELSON M.D.

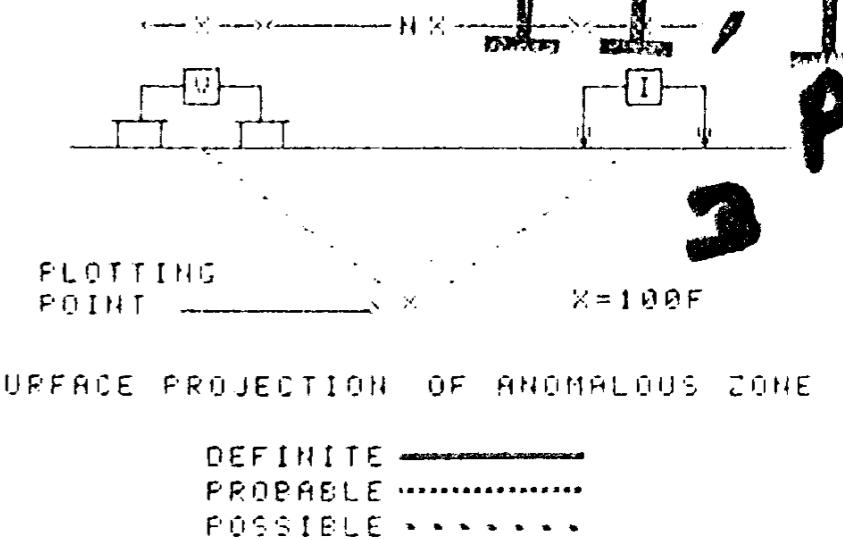
SALMO, BRITISH COLUMBIA
GEOLOGICAL BRANCH
ASSESSMENT REPORT
LINE NO. -228

11,163

LOTTING
POINT X = 100E

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE —————
PROBABLE
POSSIBLE >>>



FREQUENCY (HERTZ) DATE SURVEYED: JULY 1981
4.0; 0.25 APPROVED

NOTE - CONTOURS
AT LOGARITHMIC
INTERVALS: 1, -1.5
-2, -3, -5, -7, 5, -10

DATE SURVEYED: JULY 1981
APPROVED

245

DATE Aug 26/81

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION AND RESISTIVITY SURVEY

GEOLoGICAL BRANCH
ASSESSMENT REPORT

DNG NO - 1 F - 5886

NEW JERSEY ZINC JACKPOT LINE

N=200F PHD (OHM-FT/2PI)

DIPOLE NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13
COORDINATE	600S	300S	200N	500N	1000N	1400N	1800N						
INTERPRETATION													
N=1	1535	2322	2025	2125	438	1777	1933	254	375	1295	1840	835	N=1
N=2	1670	4150	3131	1800	2077	3460	527	581	433	210	385	680	N=2
N=3	3500	7781	1747	1706	2306	4720	1724	527	195	525	520		N=3
N=4	2035	2541	1800	1461	1999	1750	1784	345	185	310			N=4
N=5													N=5
N=6													N=6

11,163 (3)

NEW JERSEY ZINC EX COCCANS

PART
3 OF 5

REFLECTOR ECHOES FROM NELSON, N.D.

RECORD PRINTED IN COLUMN 14

LINE NO - 1000

NEW JERSEY ZINC JACKPOT LINE

N=200F PHD

DIPOLE NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13
COORDINATE	600S	300S	200N	500N	1000N	1400N	1800N						
INTERPRETATION													
N=1	6.1	6	6	7	4.2	5.1	5.1	6.4	7.6	6	14	12	N=1
N=2	2.5	2.7	3.2	4.5	6.5	3.1	7	7	6.5	14	14	9.7	N=2
N=3	1.6	2.7	4.5	5	5.2	3.7	7.1	5.1	5	5.4	14	10	N=3
N=4	4.1	4.5	6.4	5	6.1	4.5	6.1	6.1	16	14.4	N.R.		N=4
N=5													N=5
N=6													N=6

FLOATING
POINT

REFLECTION

REFRACTION OF ANOMALOUS LINE

DEFINITE
PROBABLE
POSSIBLE

NEW JERSEY ZINC JACKPOT LINE

N=200F METAL DETECTOR

DIPOLE NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13
COORDINATE	600S	300S	200N	500N	1000N	1400N	1800N						
INTERPRETATION													
N=1	1.4	1.9	1	1.4	3.9	2.9	2.7	2.5	2.8	5.2	17	14	N=1
N=2	0.5	0.6	1.6	1.5	2.7	2.1	1.3	1.8	1.8	1.5	6.4	5.2	N=2
N=3	1.4	1.1	1.6	4.7	5.3	11	5.4	17	5.1	17	20		N=3
N=4	0.1	1.8	5.7	5.4	3.1	2.5	2.5	2.5	2.5	2.5	N.R.		N=4
N=5													N=5
N=6													N=6

FREQUENCY - HERITAGE
4 8 0 25

DATE SURVEYED June 1981
APPROVED

NOTES - CONTAINERS
BT LOGARITHMIC

INTERVALS 1 - 1.5
2 - 3 - 5 - 7 - 8 - 10

DATE 6/14/81

PHOENIX GEOPHYSICS LTD

EXCELSIOR PREPARATION
AND APPROVAL BY PHOENIX

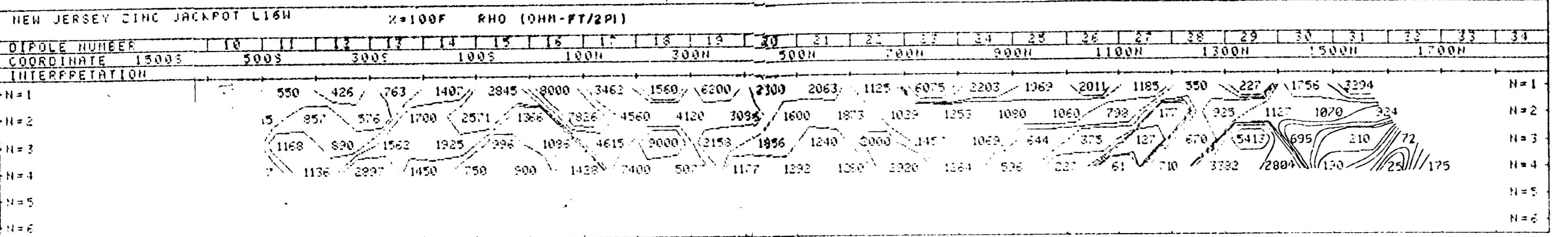
GEOLOGICAL BRANCH
ASSESSMENT REPORT

NEW JERSEY ZINC JACKFOT LINE 216W A=200F PHE (DEMI-FT/2PI)

DIPOLE NUMBER	1	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	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968

GEOLOGICAL BRANCH
ASSESSMENT REPORT

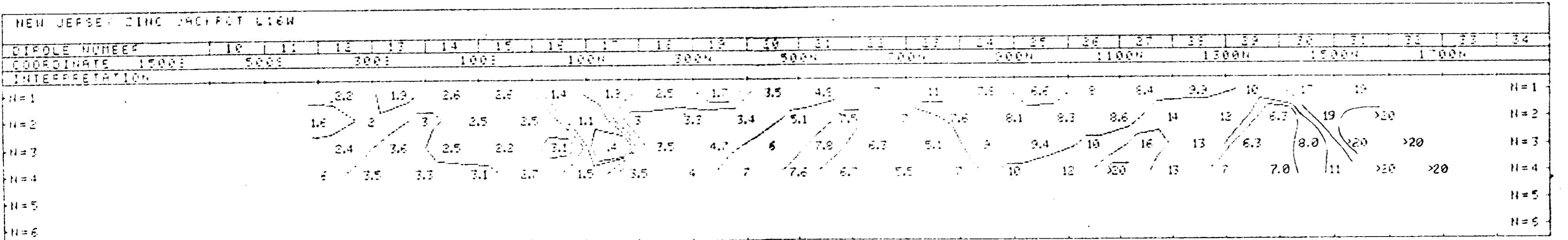
DWG NO - I F - 5006-5



11 163
NEW JERSEY ZINC EX CO(CAN) LTD
JACKPOT PROPERTY NELSON M.D.
BRITISH COLUMBIA

PART
3 OF 5

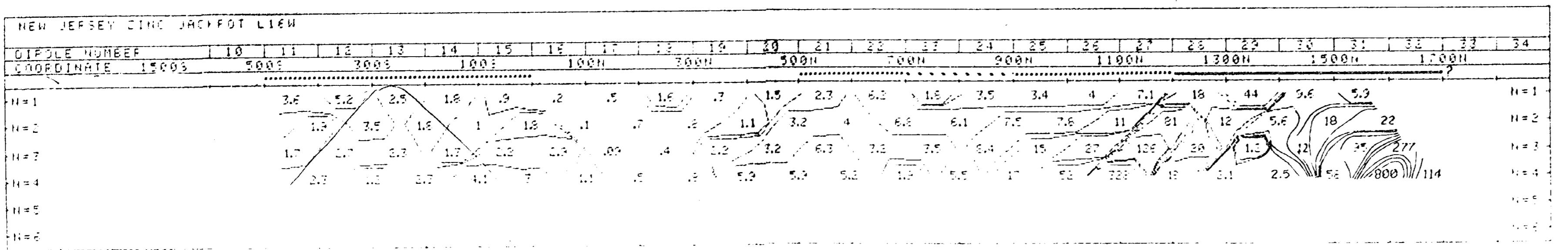
LINE NO - 187



FLOWING POINT $\sim 1000\text{ft}$

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE -----
PROBABLE -----
POSSIBLE -----



FREQUENCY - HERTZ 4 8 0 25
DATE SURVEYED JUNE 1981
APPROVED

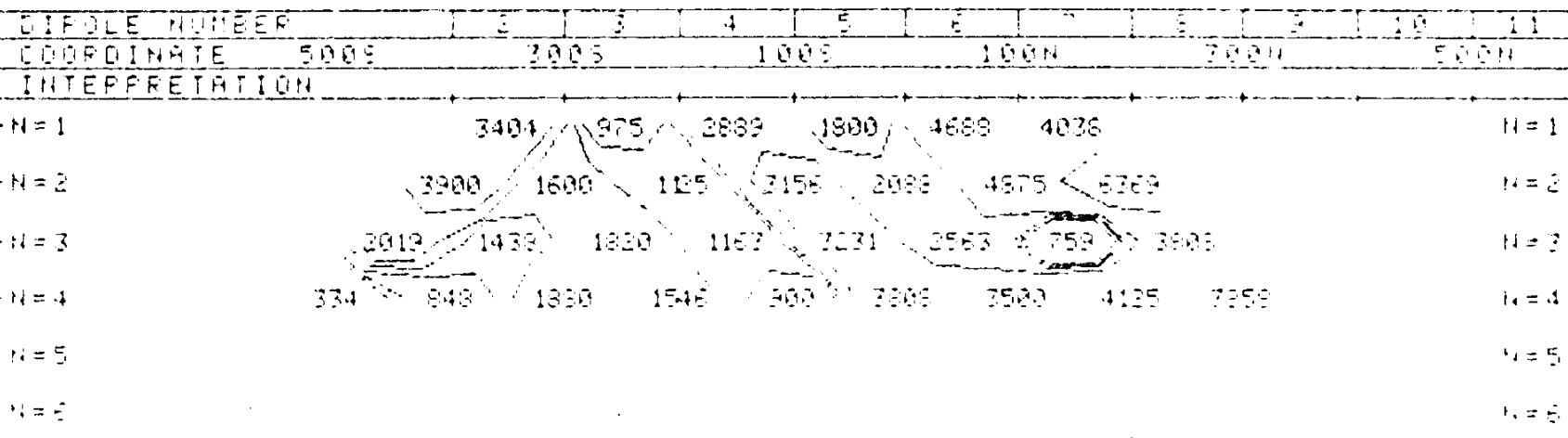
NOTE - CONTOURS AT LOGARITHMIC INTERVALS 1 - 1.5
- 2 - 3 - 5 - 7 - 10
DATE JUN 26, '81

PHOENIX GEOPHYSICS LTD.
EQUATED PERTURBATION
AND FREQUENCY 1 - 4 - 8 - 16

NEW JERSEY ZINC JACKPOT L14W

X=100F PHO (DMM-FT/2PI)

Dwg No - 1 P - 5606-6



NEW JERSEY ZINC EX CO(CRND) LTD

JACKPOT PROPERTY NEWTON N.J.

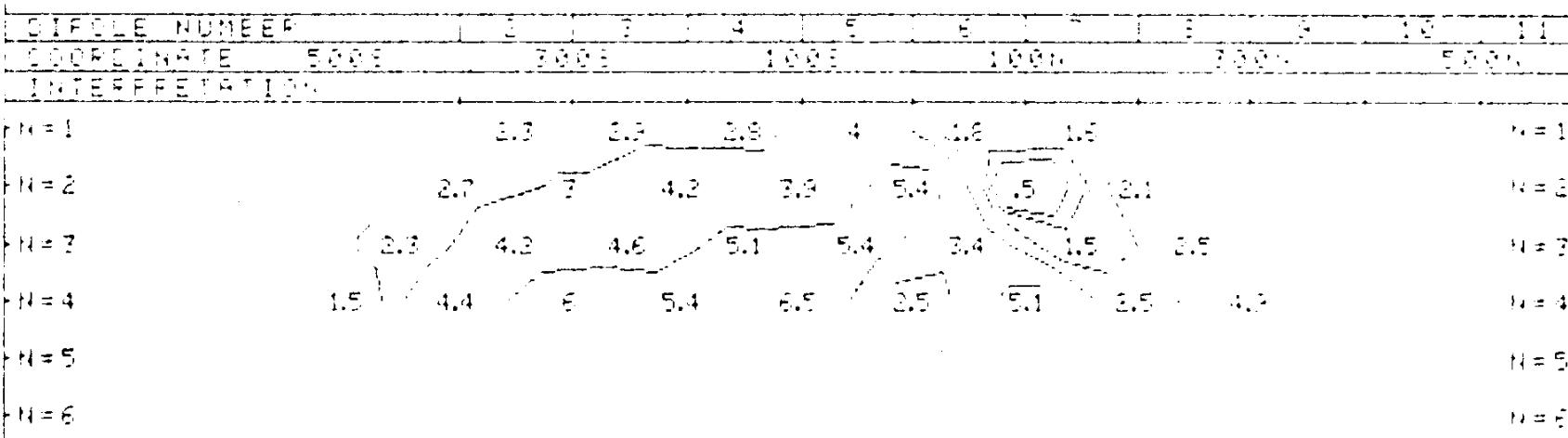
PHOENIX GEOPHYSICS LTD.

LINE NO - 14W

GEOLOGICAL BRANCH
ASSESSMENT REPORT11,163
PART 3 of 5

NEW JERSEY ZINC JACKPOT L14W

X=100F FFE



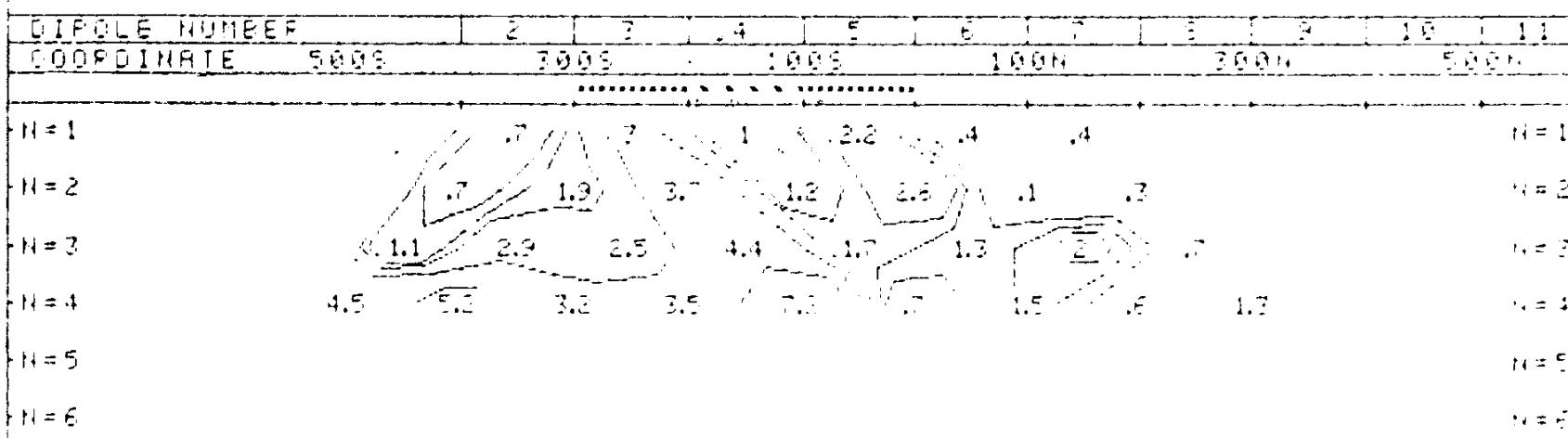
PLOTTING POINT X=100FT

SURFACE PROJECTION OF ANOMALOUS CONTOURS

DEFINITE -----
PROBABLE -----
POSSIBLE -----

NEW JERSEY ZINC JACKPOT L14W

X=100F METAL FACTOR

FREQUENCY - HERTZ
4 0.0 25DATE SURVEYED JUNE 1981
APPROVEDNOTE - CONTOURS
AT LOGARITHMICINTERVALS 1 - 1.5
1.2 - 3 - 5 - 7 5 - 10

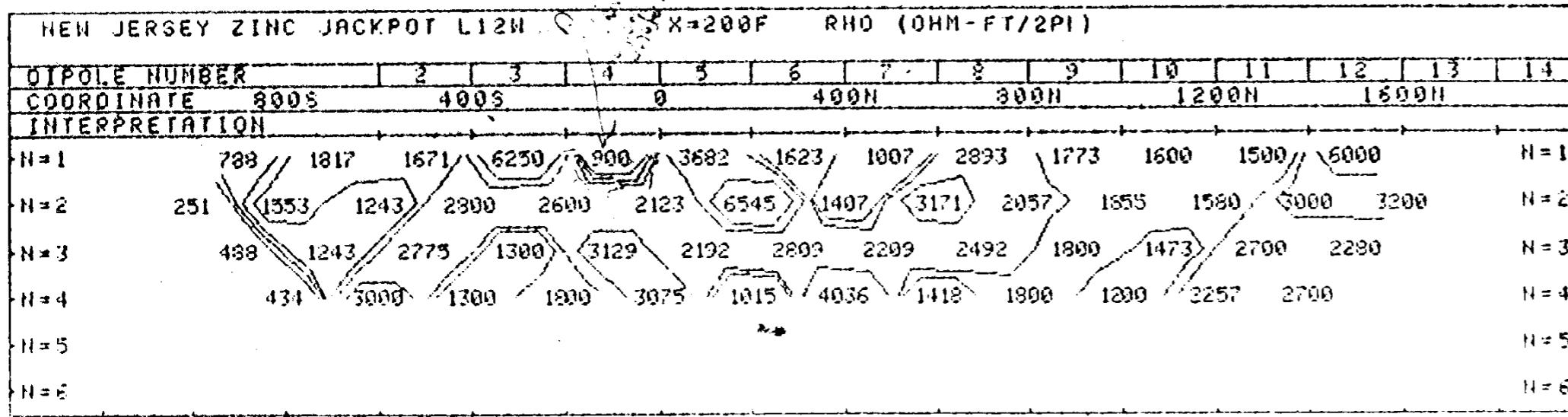
DATE JUN 26 1981

Fax

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION
AND RELECTION SURVEY

ENG NO - I F - 5908 - 7



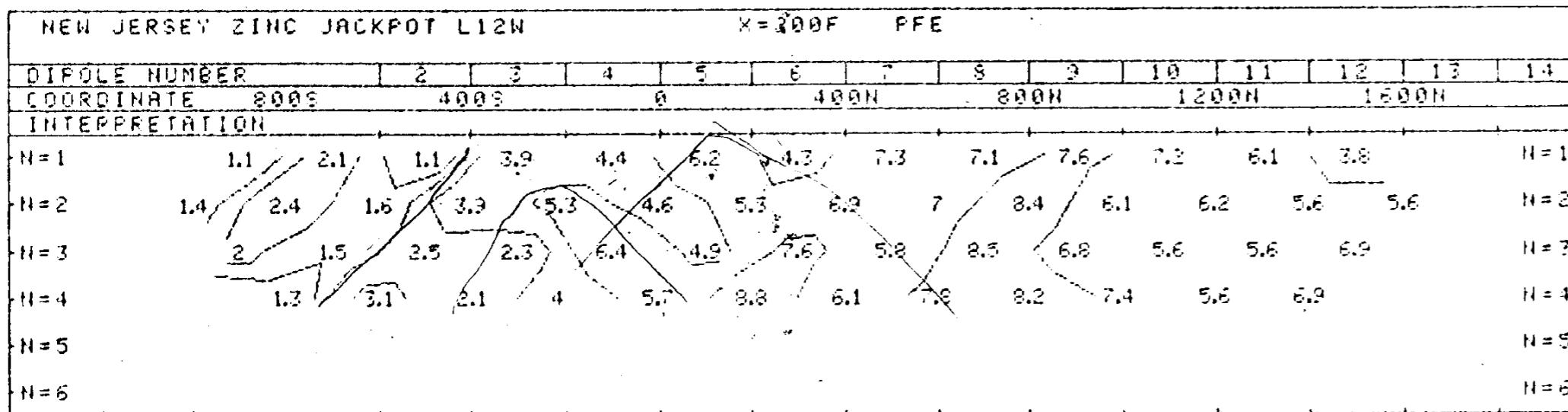
NEW JERSEY ZINC EX CO(CAN) LTD

JACKPOT PROPERTY NELSON M.D.
BALTIMORE, MARYLAND

FIGURE 10

GEOLOGICAL BRANCH ASSESSMENT REPORT

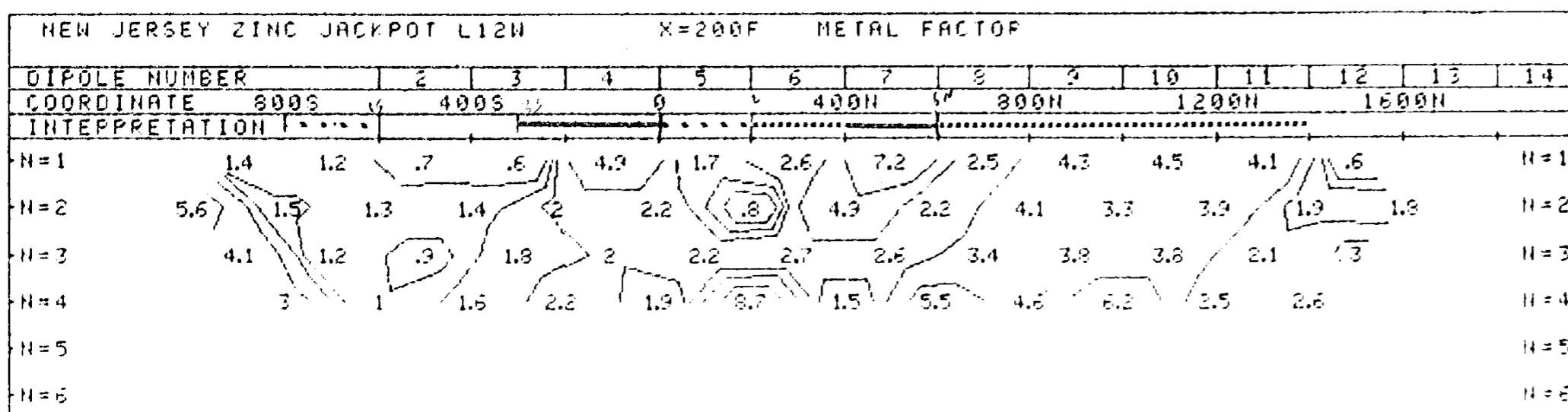
135
165
149
149
perfect



PLOTTING
POINT

SURFACE PROJECTION OF ANTERIOR EYE

DEFINITE -----
PROBABLE -----
POSSIBLE -----



FREQUENCY - HERTZ -

DATE SUBMITTED: JUNE 1951
REF ID: ED

NOTE - CONTOURS
AT LOGARITHMIC
INTERVALS 1-10

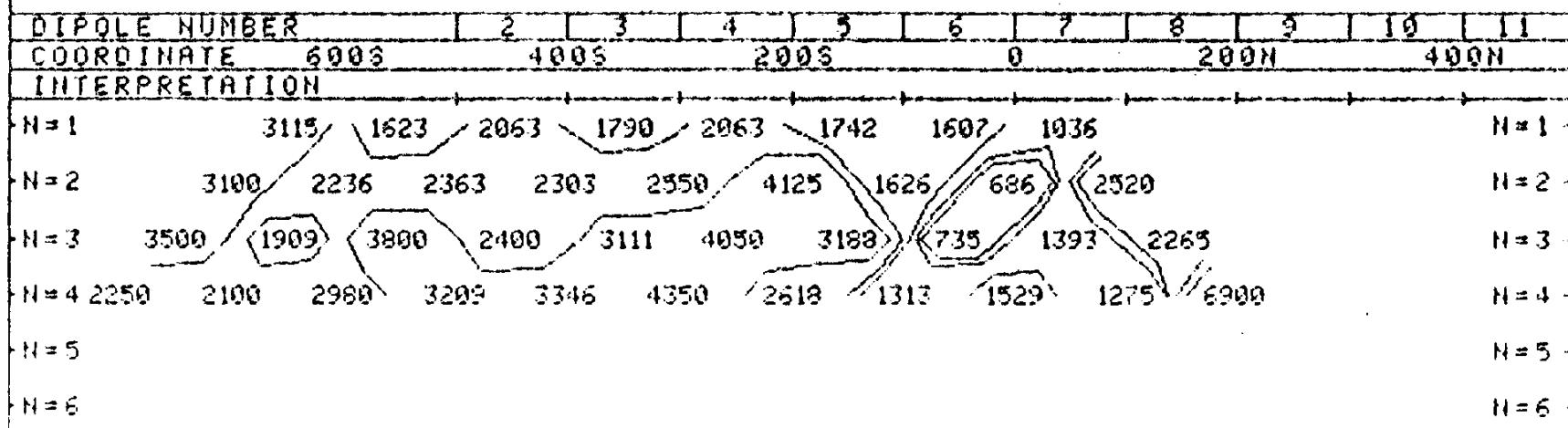
DATE Aug 27, '81

PHOENIX GEOPHYSICS LTD.

INCLUDES POLARIZATION

NEW JERSEY ZINC JACKPOT L10W

X=100F RHO (OHM-FT/2PI)



NEW JERSEY ZINC EX CO(CAN) LTD

JACKPOT PROFILE T NELSON H D

SAVAN BRITISH COLUMBIA

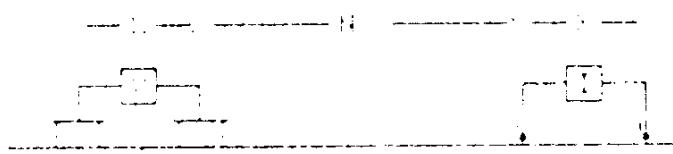
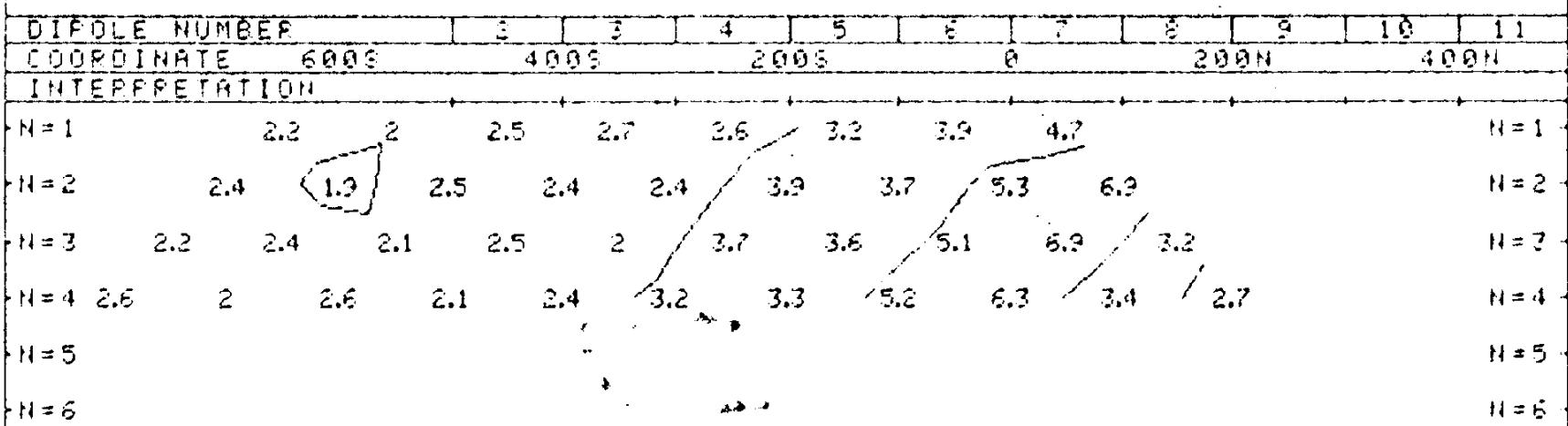
LINE NO - 10W

PART GEOLOGICAL ASSESSMENT REPORT

305511

NEW JERSEY ZINC JACKPOT L10W

X=100F PFE



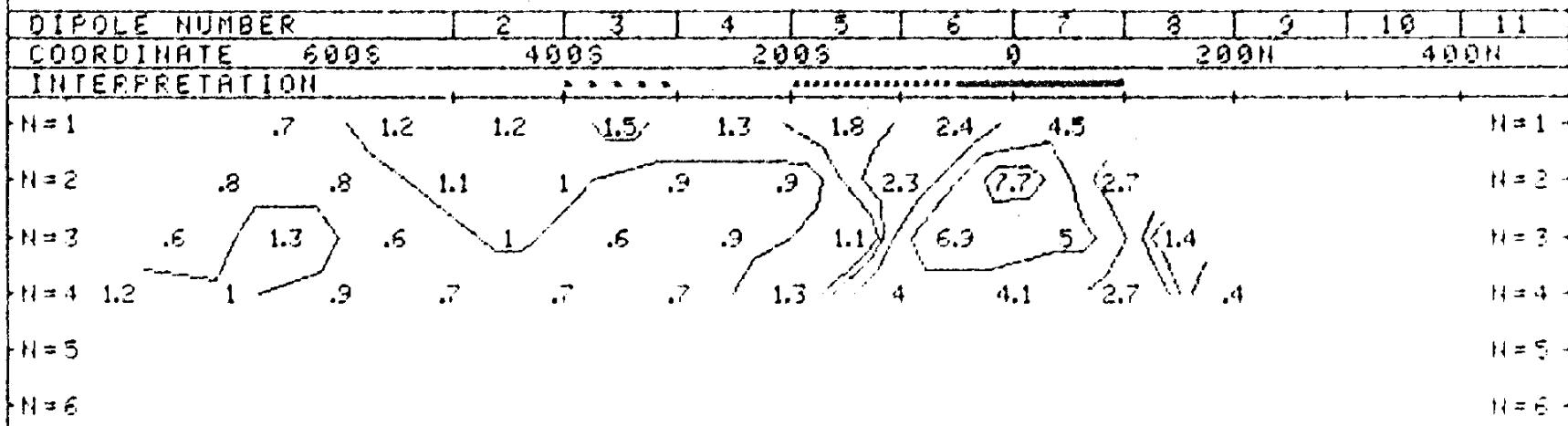
FLOTTING POINT X=100FT

SURFACE PROJECTION OF ANOMALOUS CORE

DEFINITE
PROBABLE
POSSIBLE

NEW JERSEY ZINC JACKPOT L10W

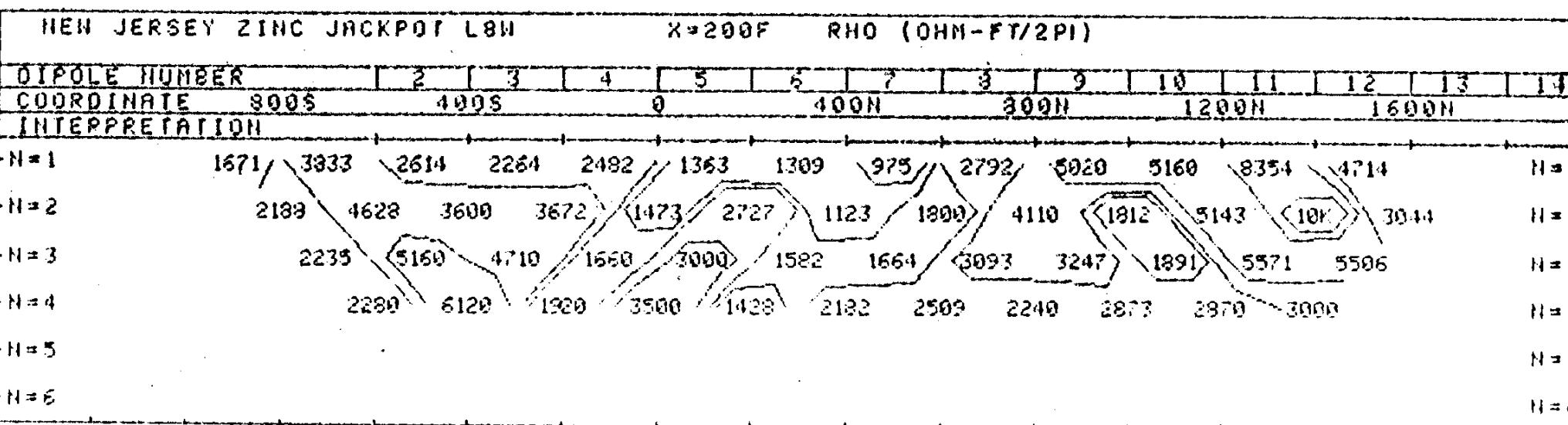
X=100F METAL FACTOR

FREQUENCY (HERTZ)
4 0 0 25DATE SURVEYED JUNE 1981
APPROVEDNOTE - CONTOURS
AT LOGARITHMIC
INTERVALS 1, -1, 5
-3, -5, -7, 5, -10

DATE Aug 26/81

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION
AND REFLECTION S-P-E



DWG NO - I P - 5808-9

NEW JERSEY ZINC EX CO(CAN) LTD

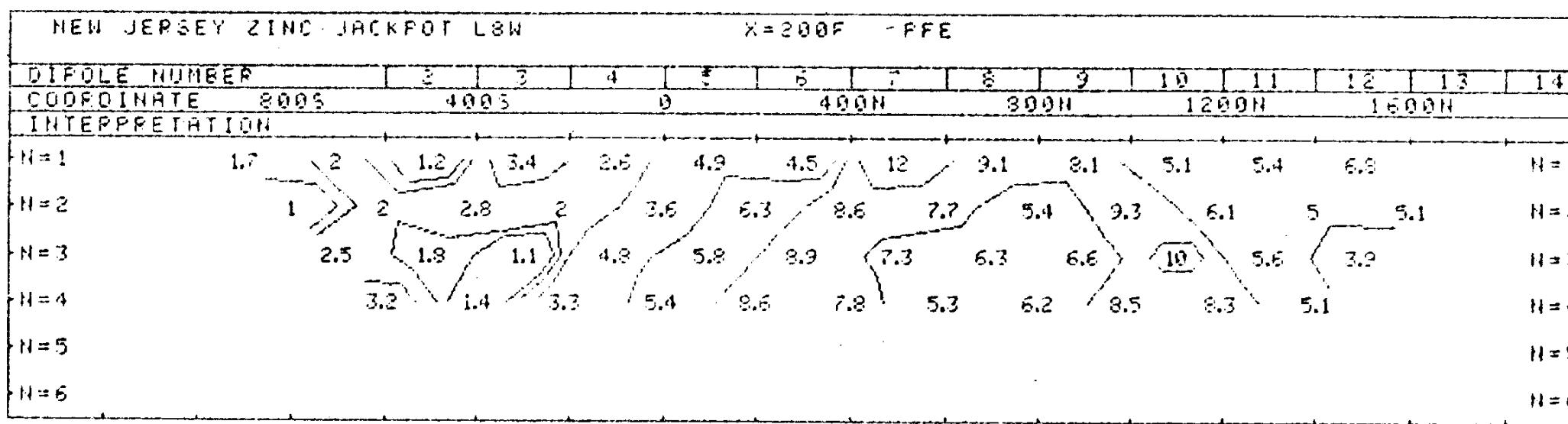
JACKPOT PROPERTY, NELSON M.D.

SALMO BRITISH COLUMBIA

LINE NO - 10

GEOLOGICAL SURVEY
BRANCH

163



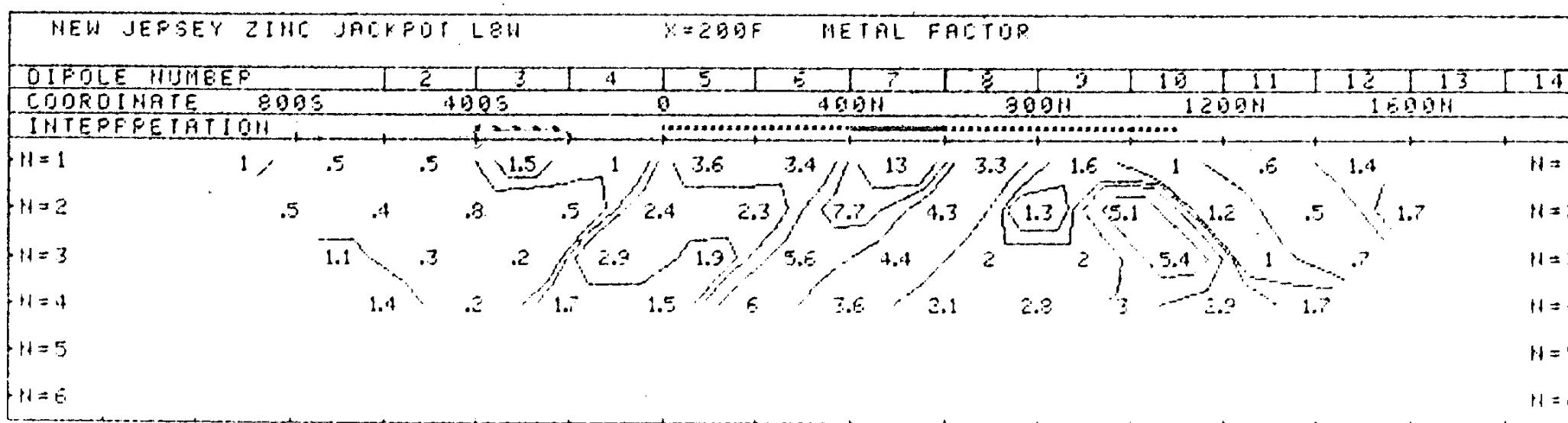
FLOWING
POINT

X=200F

SURFACE PROJECTION OF AROMALOUE ORE

DEFINITE
PROBABLE
POSSIBLE

part 11, 163



FREQUENCY (HERTZ)
4 8 0 25

DATE SURVEYED JUNE 1981
APPROVED

Pic

NOTE - CONTOURS
AT LOGARITHMIC
INTERVALS 1 - 1.5
- 2 - 3 - 5 - 7 - 10 - 15

DATE AUG 27/81

PHOENIX GEOPHYSICS LTD.

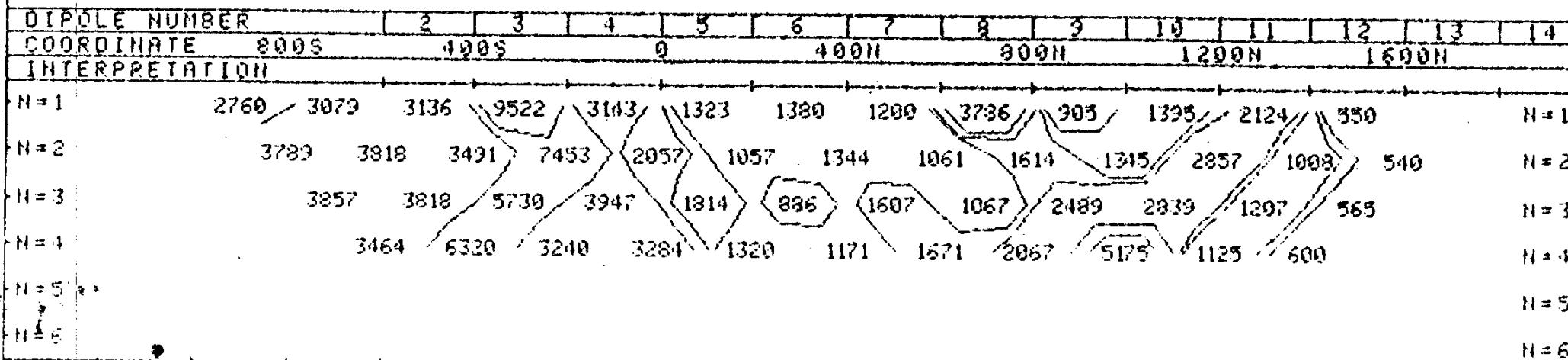
INDUCED POLARIZATION
AND RESISTIVITY SURVEY

GEOLOGICAL BRANCH
ASSESSMENT REPORT

BDR No. - I.P. - 5808-19

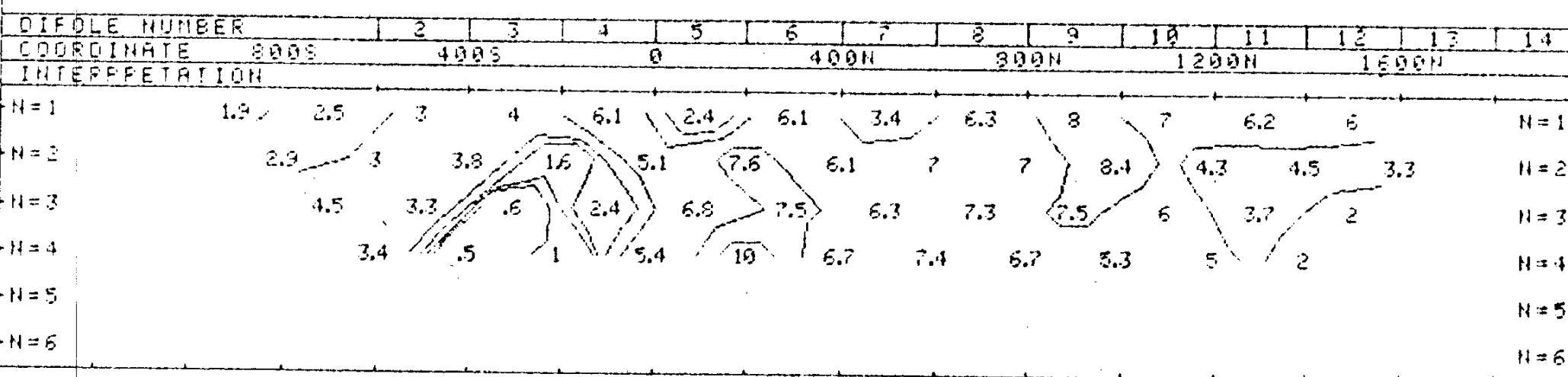
NEW JERSEY ZINC JACKPOT L4N

X=200F RHO (OHM-FT/2PI)



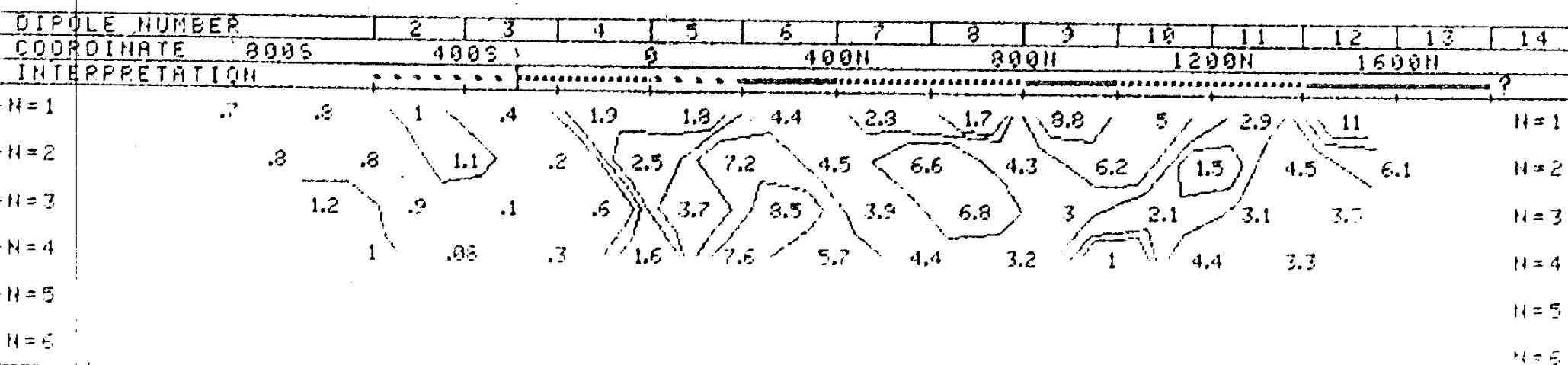
NEW JERSEY ZINC JACKPOT L4N

X=200F PFE



NEW JERSEY ZINC JACKPOT L4N

X=200F METAL FACTOR



11,163

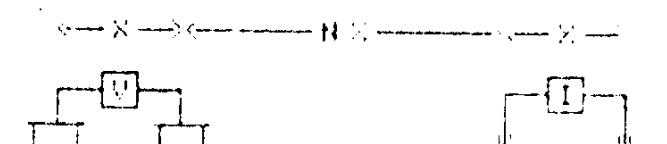
NEW JERSEY ZINC EXPLORATION LTD.

JACKPOT PROPERTY NELSON M.D.

SALMO, BRITISH COLUMBIA

MAT
3 OF 5

LINE NO. - 4H



PLOTTING
POINT

X = 200FT

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE —
PROBABLE
POSSIBLE ······

FREQUENCY (HERTZ)

4100.25

DATE SURVEYED: JUNE 1981

APPROVED

Pac

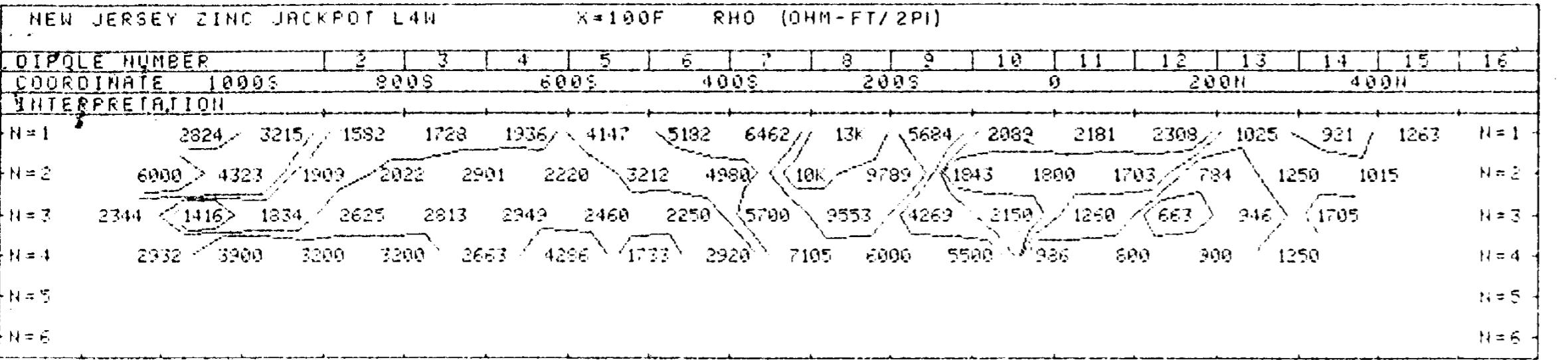
NOTE - CONTOURS
AT LOGARITHMIC
INTERVALS. 1, -1.5
-2, -3, -5, -7.5, -10

DATE Aug 27/81

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION

RND RESISTIVITY SURVEY

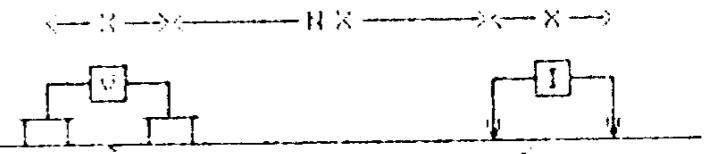
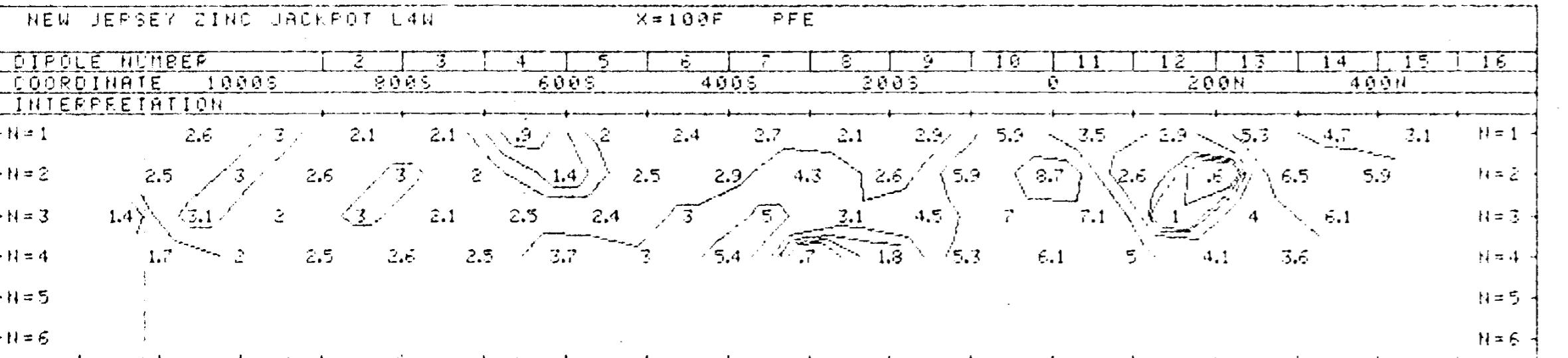
11,163 PART
3 OF 5

NEW JERSEY ZINC EX CO(CAN) LTD

JACKPOT PROPERTY, NELSON M.D.

SALMO, BRITISH COLUMBIA

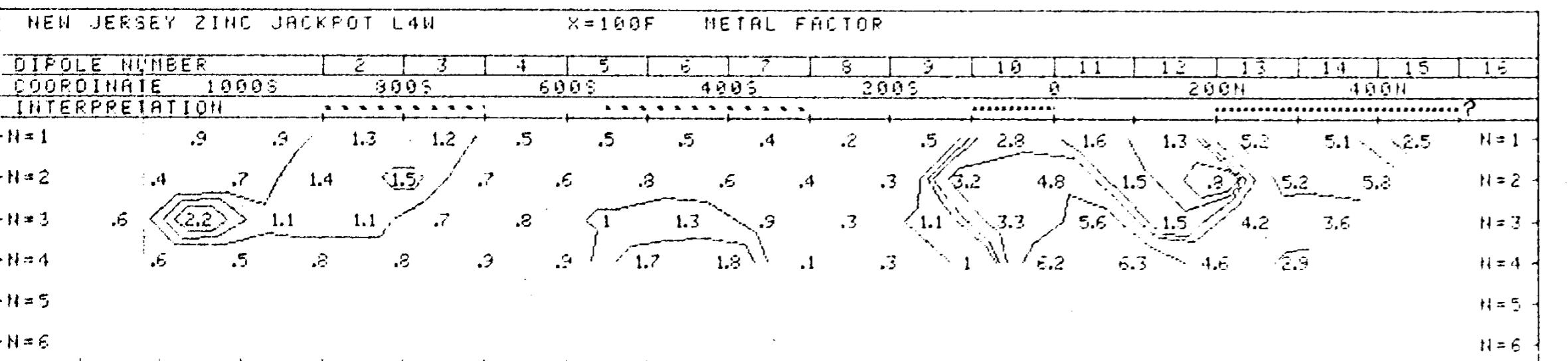
LINE NO -4W



PLOTTING POINT X=100FT

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE -----
PROBABLE
POSSIBLE *-*-*



FREQUENCY (HERTZ)
4 8 0 25

DATE SURVEYED: JULY 1981
APPROVED

NOTE- CONTOURS
AT LOGARITHMIC
INTERVALS: 1,-1.5
-2,-3,-5,-7 3,-10

PAC
DATE Aug 26/81

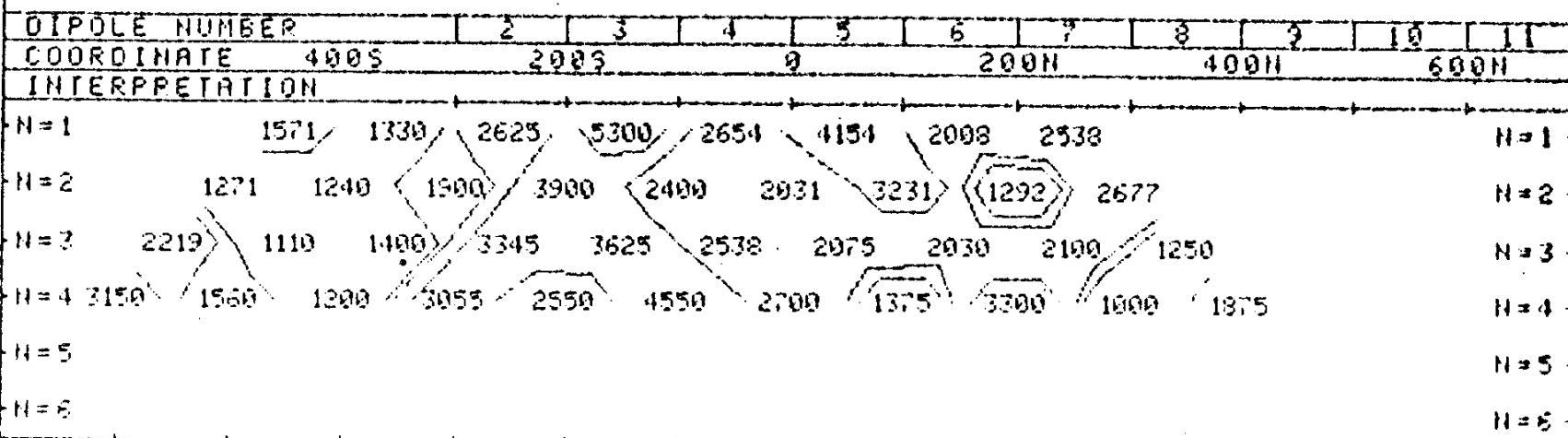
PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION
AND RESISTIVITY SURVEY

NEW JERSEY ZINC JACKPOT L2W

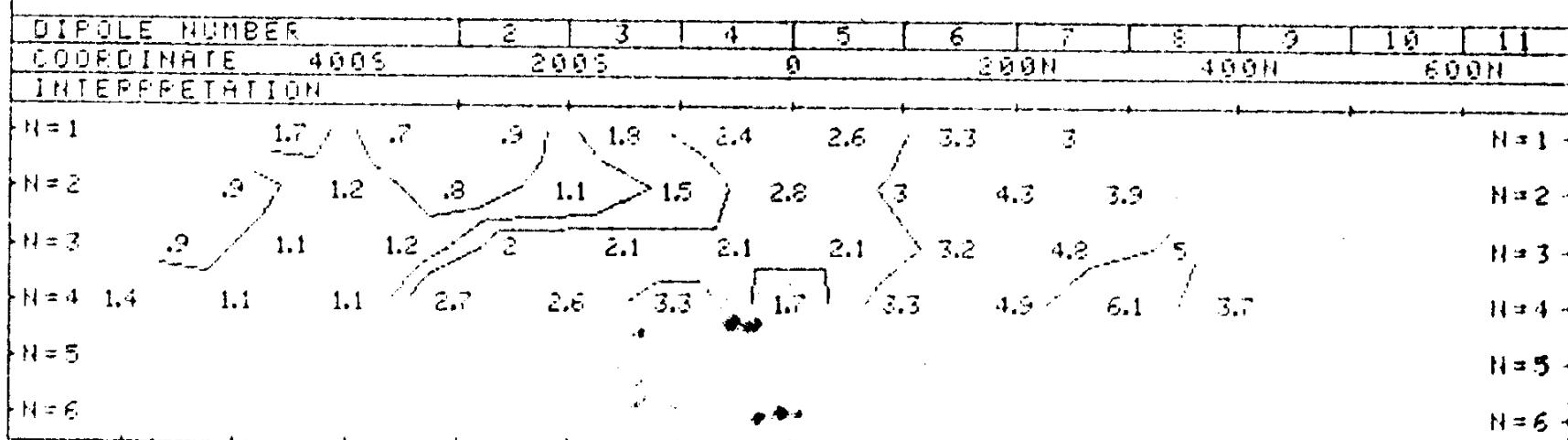
X=100F RHO (OHM-FT/2PI)

Dwg. No. - I.P. - 5809-12



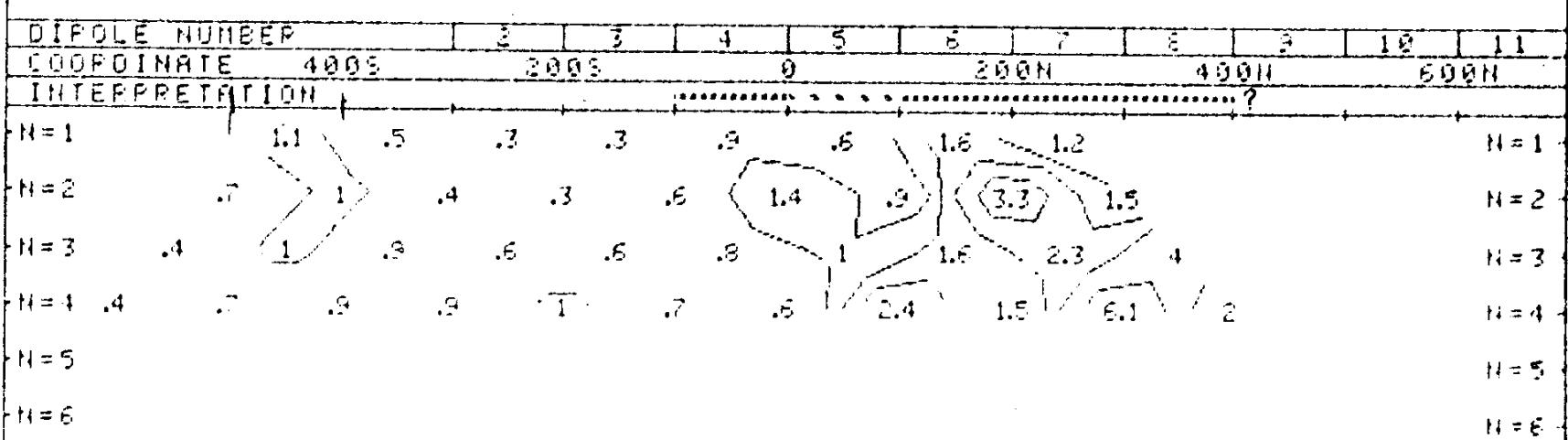
NEW JERSEY ZINC JACKPOT L2W

X=100F PFE



NEW JERSEY ZINC JACKPOT L2W

X=100F METAL FACTOR



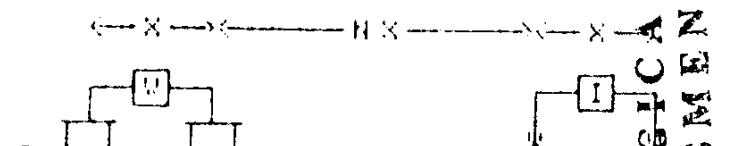
NEW JERSEY ZINC EX CO(CAN) LTD

JACKPOT PROPERTY: NELSON M.D.

SALMO: BRITISH COLUMBIA

LINE NO. - 2W

CANADIAN BRANCH REPORT

FLOTTING
POINT

X=100F

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE
PROBABLE
POSSIBLEFREQUENCY (HERTZ)
4 0, 0.25DATE SURVEYED: JULY 1981
APPROVEDNOTE - CONTOURS
AT LOGARITHMIC
INTERVALS: 1, -1.5
-2, -3, -5, -7, 5, -10

PAC

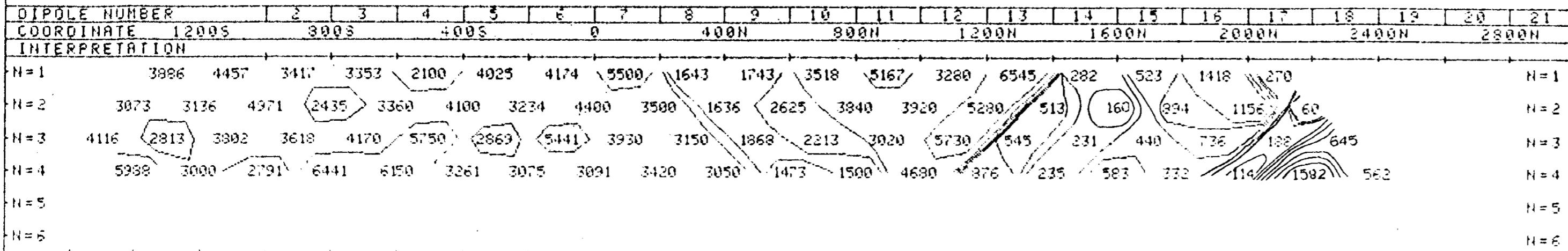
DATE Aug 26/81

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION
AND RESISTIVITY SURVEYPART
385

NEW JERSEY ZINC JACKPOT LO

X=200F RHO (OHM-FT/2PI)



DNG NO - I P - 5808 (13)

NEW JERSEY ZINC EX CO(CAN) LTD

JACKPOT PROPERTY NELSON M.D.

SALMO BRITISH COLUMBIA

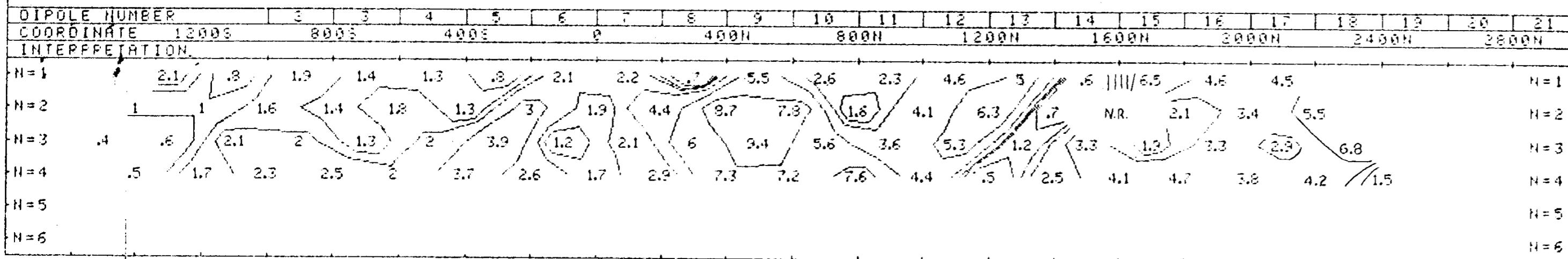
GEOLOGICAL BRANCH
ASSESSMENT REPORT

LINE NO - 0

11,163 PART
3 OF 5

NEW JERSEY ZINC JACKPOT LO

X=200F FFE



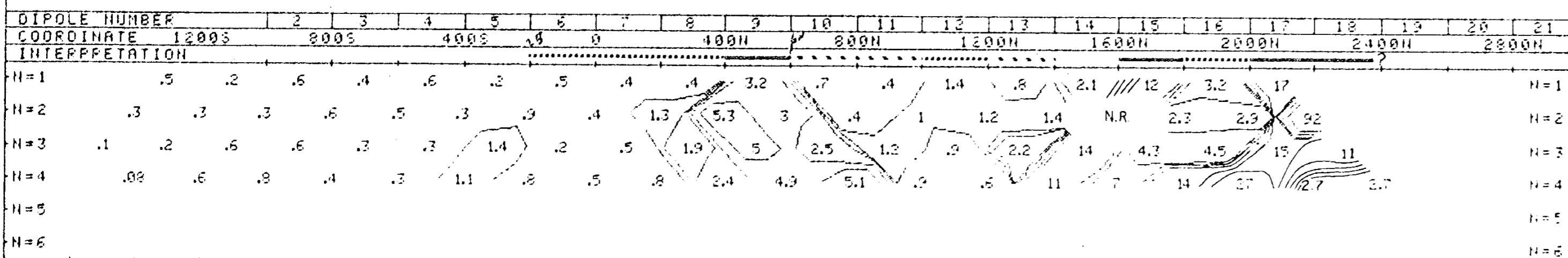
PLOTTING POINT
X=200FT

SURFACE PROJECTION OF ANOMALOUS ZONE

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

NEW JERSEY ZINC JACKPOT LO

X=200F METAL FACTOR



FREQUENCY (HERTZ)
4 0.0 25

DATE SURVEYED JUNE 1981
APPROVED

NOTE - CONTOURS
AT LOGARITHMIC
INTERVALS 1 - 1.5
- 2 - 3 - 5 - 7 5 - 10

PAC

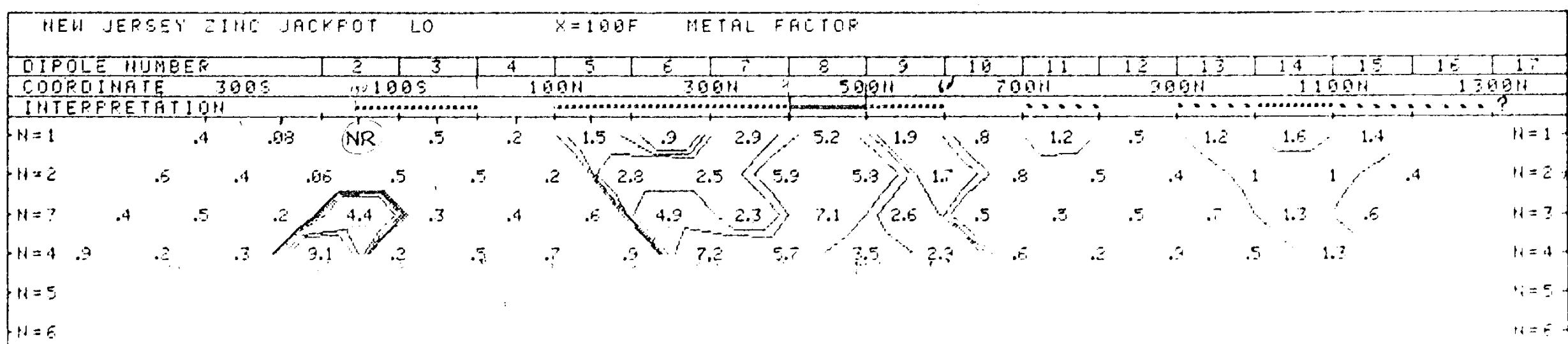
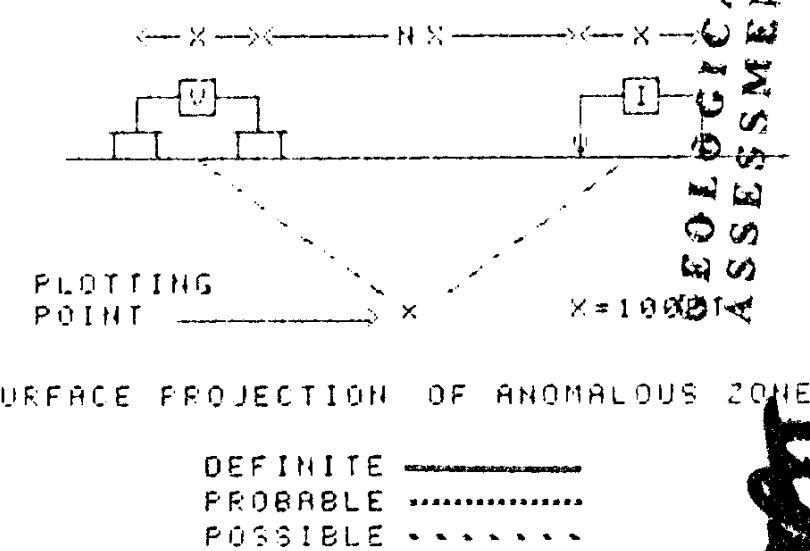
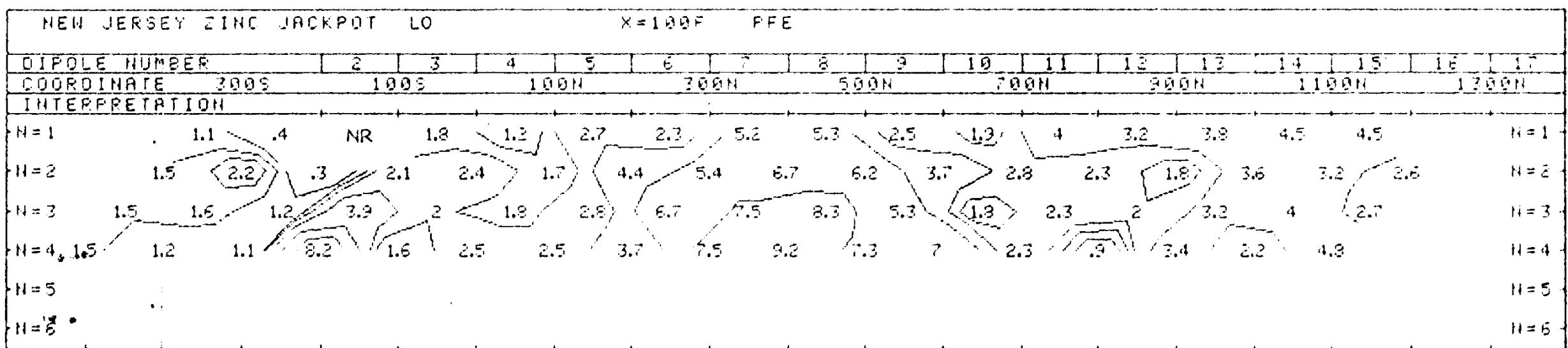
DATE AUG 26 '81

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION
RHO RESISTIVITY SURVEY

NEW JERSEY ZINC JACKPOT LO																	X=100F RHO (OHM-FT/2PI)	
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
COORDINATE	300S	100S	100N	300N	500N	700N	900N	1100N	1300N									
INTERPRETATION																		
N=1	2750	5182	NR	3591	7765	1828	2444	1316	1013	1333	2325	3409	6140	3170	2770	3140	N=1	
N=2	2455	5236	5200	4125	4800	11K	1566	2200	1137	1067	2230	3627	5021	4930	3500	3290	6000	N=2
N=3	3955	3409	5714	885	7250	4223	4429	1359	3331	1176	2053	3837	4667	3979	4910	3200	4570	N=3
N=4	1718	4882	3428	900	6144	5290	3654	4143	1040	1603	2100	2400	4133	4180	3940	4050	3780	N=4
N=5																	N=5	
N=6																	N=6	

ONG. NO. - I P-5808 (14)



FREQUENCY (HERTZ)
4 0, 0.25
DATE SURVEYED JUNE 1981
APPROVED

NOTE - CONTOURS
AT LOGARITHMIC
INTERVALS 1, -1.5,
-2, -3, -5, -7.5, -10
DATE AUG 26/81

PHOENIX GEOPHYSICS LTD.
INDUCED POLARIZATION
AND RESISTIVITY SURVEY

NEW JERSEY ZINC JACKPOT L2E

X=100F RHO (OHM-FT/2PI)

DWG NO - I F - 5805-15

DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11
COORDINATE	300S	100S	100N	300N	500N	700N				
INTERPRETATION										
N=1	4846	11K	11K	5727	13K	8455	4000	4000		N=1
N=2	2631	5963	12K	7855	5150	12K	5836	1600	1013	N=2
N=3	1650	3978	12K	5875	4125	5731	1786	763	934	N=3
N=4	7500	2219	6769	7008	7750	5600	612	2515	1000	N=4
N=5										N=5
N=6										N=6

NEW JERSEY ZINC JACKPOT L2E

X=100F PEE

DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11
COORDINATE	300S	100S	100N	300N	500N	700N				
INTERPRETATION										
N=1	1.6	1.6	1.5	1.6	1.6	2.1	4.5	6.5		N=1
N=2	2.1	1.7	2.1	1.5	1.1	3.1	4.8	6.3	12	N=2
N=3	1	1.9	1.6	3.2	1	2.5	3.7	5.6	10	N=3
N=4	1.1	1.3	1.7	1.8	2.3	2	3.6	3.9	8.5	N=4
N=5										N=5
N=6										N=6

NEW JERSEY ZINC JACKPOT L2E

X=100F METAL FACTOR

DIPOLE NUMBER	2	3	4	5	6	7	8	9	10	11
COORDINATE	300S	100S	100N	300N	500N	700N				
INTERPRETATION										
N=1	.3	.4	.1	.1	.3	.1	.4	1.2	1.6	N=1
N=2	.8	.3	.1	.2	.2	.3	.8	3.8	13	N=2
N=3	.6	.5	.2	.2	.2	.5	.5	3.2	14	N=3
N=4	.2	.6	.2	.2	.2	.4	4.2	1.6	8.4	N=4
N=5										N=5
N=6										N=6

NEW JERSEY ZINC EX COCCAND LTD

JACKPOT PROPERTY NELSON M.D.

BRITISH COLUMBIA

GEOLOGICAL BRANCH
ASSESSMENT REPORT

11,163

PART
3 OF 5FLETTING
POINT

X=100FT

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE
POSSIBLE
POSSIBLEFREQUENCY (HERTZ)
4 0 0 25DATE SURVEYED JULY 19-1
APPROVED

TPC

NOTE - CONTOURS
AT LOGARITHMIC
INTERVALS 1-1.5
-2-3-5-7 5-10

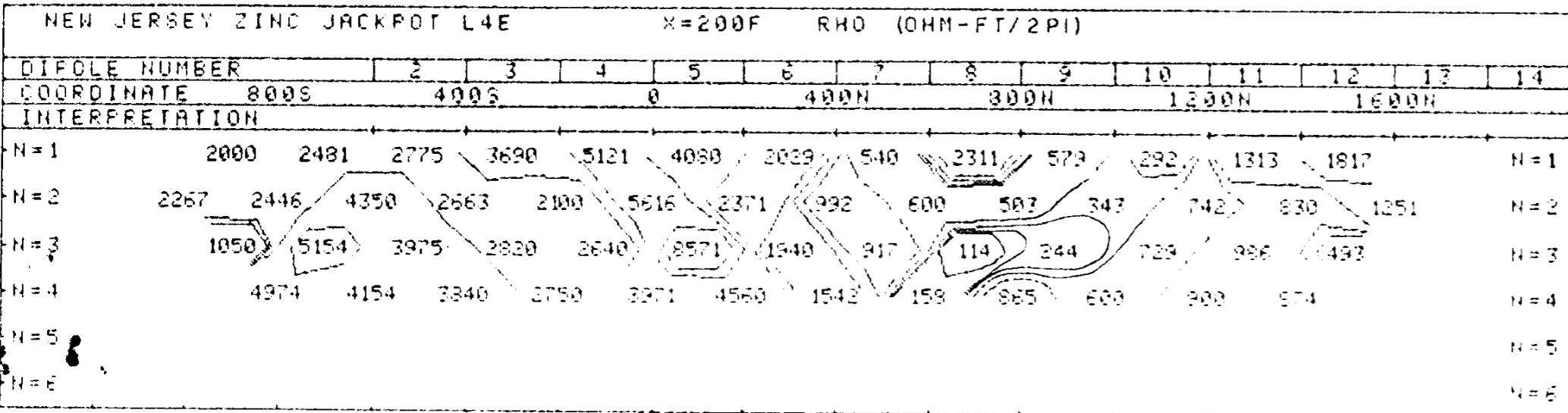
DATE AUG 21, 81

PHOENIX GEOPHYSICS LTD.

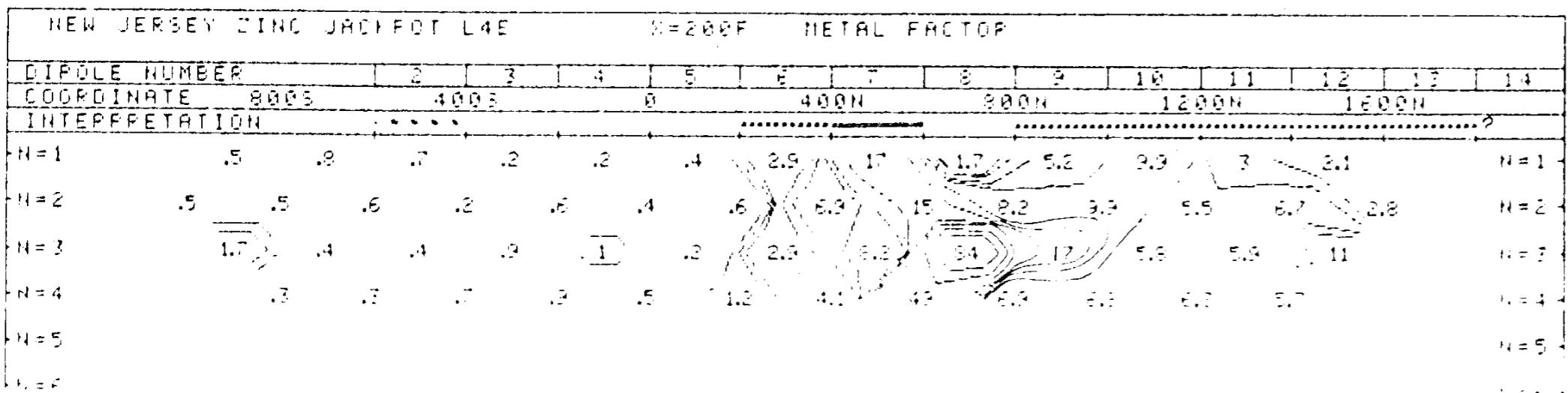
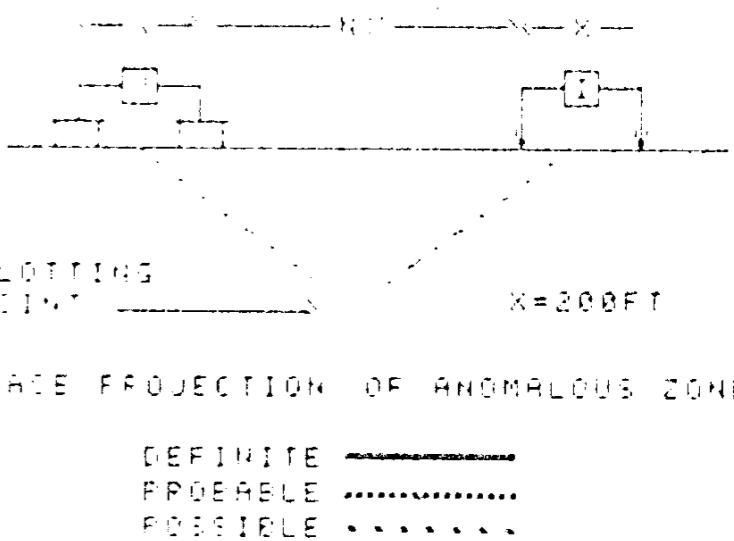
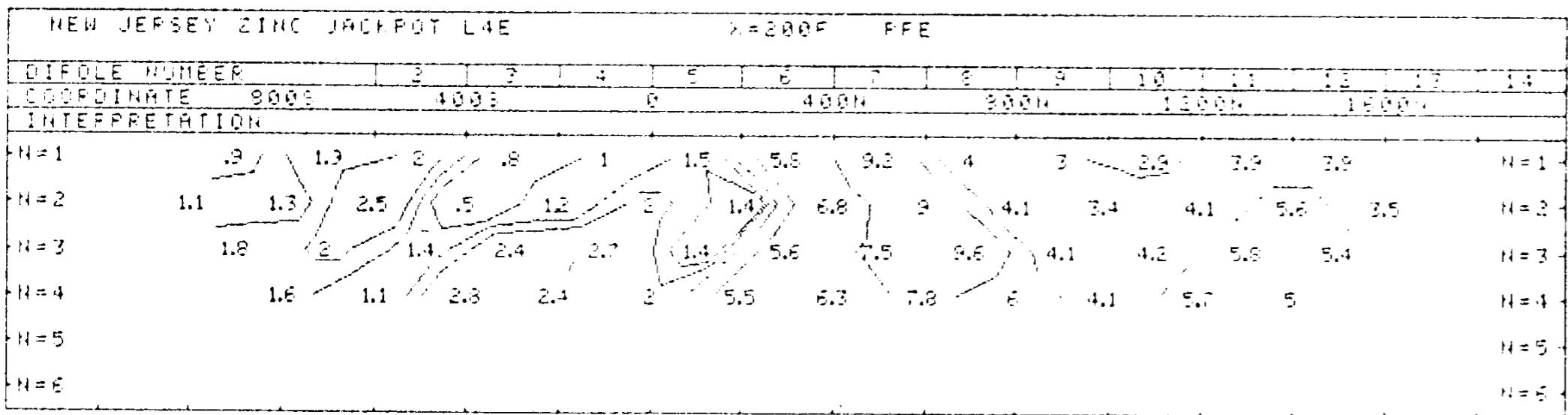
INCORPORATED 1974
AND REGISTERED 1975

GEOLOGICAL BRANCH
ASSESSMENT REPORT

DNG NO - I P - 5608-16



11,163
NEW JERSEY ZINC EX CO(CAN) LTD
PART PROPERTY NELSON M D
CALMO BRITISH COLUMBIA
LINE NO - 4E
3 OF 5



FREQUENCY - HERTZ 4 8.0 25 DATE SURVEYED JUNE 1981 APPROVED

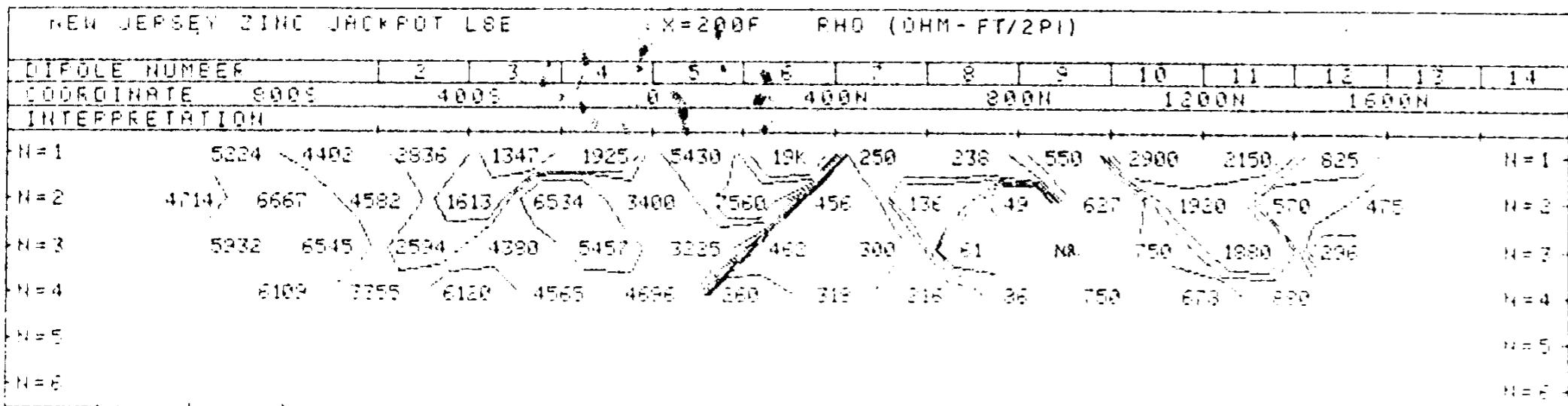
NOTE - CONTOURS AT LOGARITHMIC INTERVALS 1 - 1.5 - 2 - 2.5 - 3 - 3.5 - 4 - 4.5 - 5 - 5.5 - 6 - 6.5 - 7 - 7.5 - 8 - 8.5 - 9 - 9.5 - 10 DATE Aug 26 81

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION
DATA PROCESSING AND ANALYSIS

GEOLOGICAL BRANCH
ASSESSMENT REPORT

- I P - 5808-17

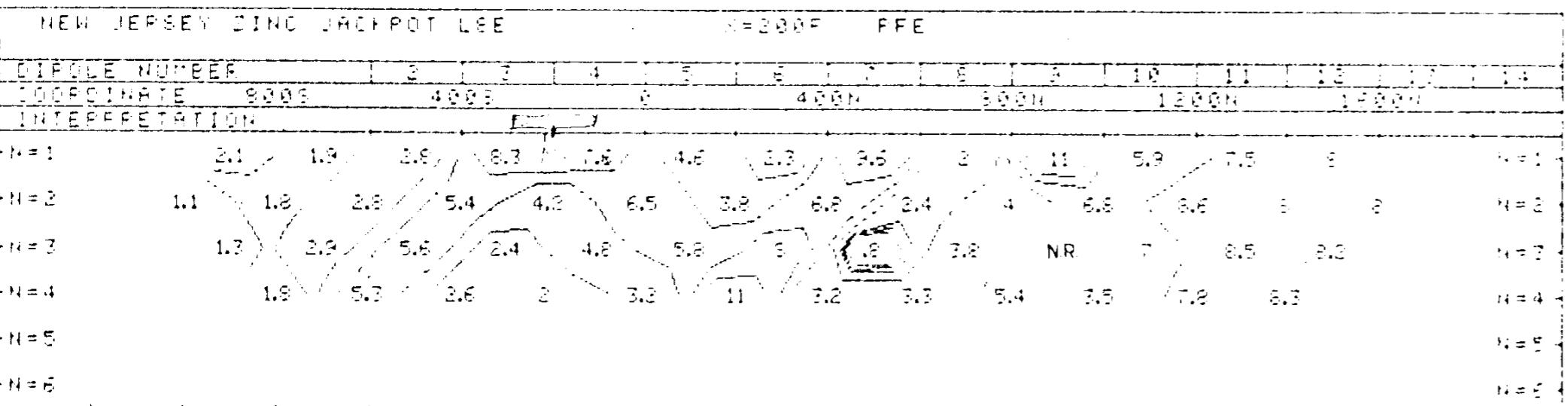


11,163 PART 3 OF 5
NEW JERSEY ZINC JACKPOT LTD.

JACKPOT PROPERTY, NEW JERSEY, N. J.

ORLANDO VERTES, H. COLLMETRA

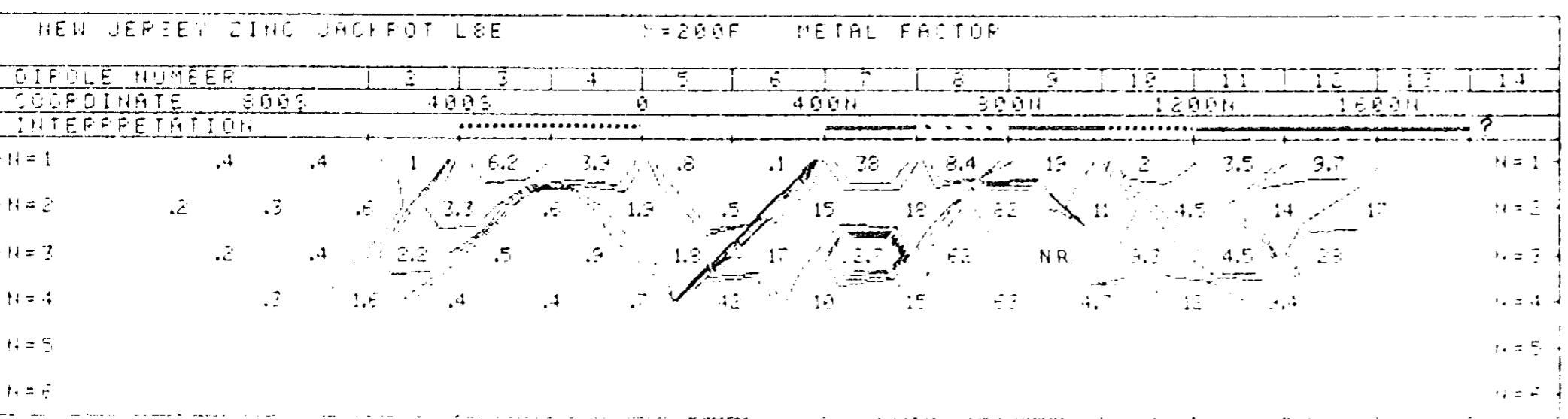
LINE NO. 488



PLOTTING POINT 1 = 200FT

SURFACE PROJECTION OF ANOMALOUS CORE

DEFINITE -----
PROBABLE
POSSIBLE *****



FREQUENCY CHART
4 8 0 25

DATE SURVEYED JUNE 1991
APPROVED

NOTE - CONTOURS
AT LOGARITHMIC
INTERVALS 1-1.5
-2-2.5-3-3.5-4-4.5

DATE JUN 26/91

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION
AND RESISTIVITY SURVEY

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

DWG NO - I P - 5

(18)

111163
NEW JERSEY ZINC JACKPOT LINE
PART 3 OF 5

JACKPOT PROPERTY NELSON M.D.
BRUNO BRITISH COLUMBIA

LINE NO - 12E

NEW JERSEY ZINC JACKPOT LINE		X=200F RHO (OHM-FT/2PI)												
DIPOLE NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14
COORDINATE	800S	400S	0	400N	800N	1200N	1600N							
INTERPRETATION														
N=1	9265	9818	4683	3700	4465	450	132	5647	14K	8864	3400	4286	4360	N=1
N=2	6000	5018	6625	4100	7280	718	129	168	5700	7565	5923	3171	2314	N=2
N=3	5290	4053	5500	6400	336	263	162	236	3117	4047	4537	2357	3193	N=3
N=4	* 4956	3764	6480	300	338	343	135	238	1533	3600	2447	2529		N=4
N=5														N=5
N=6														N=6

NEW JERSEY ZINC JACKPOT LINE		X=200F FFE													
DIPOLE NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
COORDINATE	800S	400S	0	400N	800N	1200N	1600N								
INTERPRETATION															
N=1	1.4	2.7	2.9	3.5	2.2	2.8	.6	1.2	2.5	2.5	4.5	3.4	6.1	N=1	
N=2	1.2	2.2	1.4	3.2	3.9	4.2	2.7	1.5	1.4	3.1	5.5	3.4	6.2	4.8	N=2
N=3	1.5	1.8	2.8	2.6	2.5	1.8	2.8	1.3	2.7	5.2	2.5	5.9	4		N=3
N=4	1.8	2.7	3.7	2.4	1.5	2.9	2.7	1.5	4.4	3.6	1.5	3.3			N=4
N=5															N=5
N=6															N=6

NEW JERSEY ZINC JACKPOT LINE		X=200F METAL FRACTOF													
DIPOLE NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
COORDINATE	800S	400S	0	400N	800N	1200N	1600N								
INTERPRETATION															
N=1	.2	.2	.5	.9	7.1	6.2	4.3	2.2	.2	.3	1.3	.8	1.4	N=1	
N=2	.2	.4	.6	.8	.5	5.9	16	10.8.9	.2	.4	1.1	.9	2.1		N=2
N=3	.2	.4	.5	.4	2.7	6.8	17	5.5	.3	1.2	.5	2.5	1.7		N=3
N=4	.4	.6	.4	.4	5.7	13.6	8	14	4.7	2.8	.3	.5	1.5		N=4
N=5															N=5

FREQUENCY - HERTZ
4 0 0 25
DATE SURVEYED LINE
REFLECTED

NOTE - CONTOURS
RT LOGARITHMIC
INTERVALS 1 - 1.5
+ 2 - 3 - 5 - 7.5 - 10
DATE 1/1/2012

PHOENIX GEOPHYSICS LT

INTEGRATED GEOPHYSICAL
AND SURVEYING SERVICES

NEW JERSEY ZINC JACKPOT L16E

X=200F RHO (OHM-FT/2PI)

DWG NO - I.P - 5808-1

DIPOLE NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14
COORDINATE	800E	400E	0	400N	800N	1200N	1600N							
INTERPRETATION														
N=1	2162	5700	2000	703	231	518	1500	3717	5523	3130	2000	5536	1965	N=1
N=2	3220	5143	6308	525	343	213	685	1864	4341	5647	3960	12787	1431	N=2
N=3	6261	7417	1853	256	353	583	622	2162	5400	6750	14375	1754	1860	N=3
N=4	8023	1581	706	296	573	695	300	3760	687	762	1025	951		N=4
N=5														N=5
N=6														N=6

NEW JERSEY ZINC JACKPOT L16E

Y=200F FFE

DIPOLE NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
COORDINATE	800E	400E	0	400N	800N	1200N	1600N								
INTERPRETATION															
N=1	2.2	3.2	2.2	1.2	.1	2.8	1.5	5	1.5	2.5	3.5	2.0	1.2	N=1	
N=2	2.5	2.2	2.1	1.2	.3	.5	2.2	1.5	2.5	3.7	3.2	1	1.5	2.5	N=2
N=3	1.7	1.7	1.2	.2	.9	1.1	2.5	2.5	2.5	2.5	2.5	1.2	2.5	N=3	
N=4	2.2	1.1	1.2	.6	.9	1.5	1.5	3.5	4.2	3.5	1.5	2.4		N=4	
N=5														N=5	
N=6														N=6	

NEW JERSEY ZINC JACKPOT L16E

Z=200F METRL FHTCF

DIPOLE NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14
COORDINATE	800E	400E	0	400N	800N	1200N	1600N							
INTERPRETATION														
N=1	1	.6	1.1	1.8	.4	5.4	1	4	1	1	1	1	1	N=1
N=2	.5	.4	.4	1.3	.3	2.3	2.8	.8	.5	.5	1.1	1	1.2	N=2
N=3	.7	.6	.1	.8	.5	3.5	1.9	2	1.4	.7	.6	1.6	1.6	N=3
N=4	.7	.7	.2	1.3	.1	1.7	2.7	1.5	1.3	.3	.6	1.1	1.5	N=4
N=5														N=5
N=6														N=6

NEW JERSEY ZINC EX COCCAN LTD

JACKPOT PROPERTY NELSON M.D.

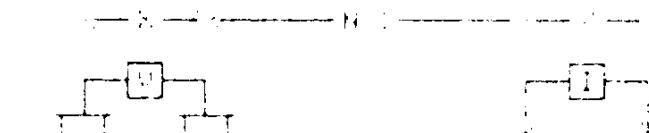
SALMO-BRITISH COLUMBIA

LINE NO - L16E

GEOLOGICAL ASSESSMENT BRANCH

PART 111

3 OF 5



FLETTING POINT

X=200F

SURFACE PROJECTION OF RHENALOUE ZONE

DEFINITE -----
PROBABLE
POSSIBLE - - - -FREQUENCY (HERTZ)
4 0.0 25DATE SURVEYED JUNE 1981
APPROVEDNOTE - CONTOURS
AT LOGARITHMIC
INTERVALS 1-1.5
-2,-3,-5,-7 5,-10TAC
DATE Aug 26/81

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION
AND RESISTIVITY SURVEY

NEW JERSEY ZINC JACKPOT LR										X=200F	RHO (OHM-FT/2PI)
DIPOLE NUMBER	1	2	3	4	5	6	7	8	9		
COORDINATE	0	400N	800N	1200N	1600N						
INTERPRETATION											
N=1	1000	810	870	338	1568	2100	620	852		N=1	
N=2	884	540	410	462	1238	1486	338	214		N=2	
N=3	510	380	560	420	1525	929	86			N=3	
N=4	372	450	740	1000	1011	217				N=4	
N=5										N=5	
N=6										N=6	

DNG NO - I P - 5605 (2)

NEW JERSEY ZINC EX COCCAN LTD

JACKPOT PROPERTY, NELSON MINE

SALEM COUNTY, NEW JERSEY

GEOLOGICAL BRANCH ASSESSMENT REPORT

LINE NO. 1A

11,163
PART
3 OF 5

NEW JERSEY ZINC JACKPOT LR										X=200F	FFE
DIPOLE NUMBER	1	2	3	4	5	6	7	8	9		
COORDINATE	0	400N	800N	1200N	1600N						
INTERPRETATION											
N=1	7	1.2	2.7	4.2	8.6	5.5	6.5	6		N=1	
N=2	1.5	3.1	5.1	6.7	9.5	7	7.5	9.5		N=2	
N=3	4.7	4.7	7	6	8.2	6.7	4.6	9.3		N=3	
N=4		7.2	6.4	6	5.1					N=4	
N=5										N=5	
N=6										N=6	

PLOTTING POINT _____ X=200F

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE _____
PROBABLE
POSSIBLE

NEW JERSEY ZINC JACKPOT LR										X=200F	METAL FACTOR
DIPOLE NUMBER	1	2	3	4	5	6	7	8	9		
COORDINATE	0	400N	800N	1200N	1600N						
INTERPRETATION											
N=1	7	12.7	3.1	12	15	2.6	12	7		N=1	
N=2	1.7	5.7	12	41	7.7	4.1	51	44		N=2	
N=3	9.7	12	12	20	5.2	5	115			N=3	
N=4	22	18	18	18	5	78				N=4	
N=5										N=5	
N=6										N=6	

FREQUENCY (HERTZ)
4 0 0 25

DATE ISSUED JUNE 1981
APPROVED

NOTE - CONTOURS
AT LOGARITHMIC

INTERVALS 1-1.5
-2 -3 -5 -7 5 -10

DATE 6/1/81

PHOENIX GEOPHYSICS LTD.

DATA SOURCE INFORMATION

AND RELATED DATA

NEW JERSEY ZINC JACKPOT LB									X=200F	RHO (OHM-FT/2PI)
DIPOLE NUMBER	2	3	4	5	6	7	8	9		
COORDINATE	200S	200N	600N	1000N	1400N					
INTERPRETATION										
N=1	1853	221	512	664	2138	613	300	760	N=1	
N=2	400	368	223	543	705	883	1553		N=2	
N=3	374	128	565	360	896	1264			N=3	
N=4	138	332	444	531	1013				N=4	
N=5									N=5	
N=6									N=6	

DWG NO - I F - 5808-3

NEW JERSEY ZINC EX CO(CAN) LTD

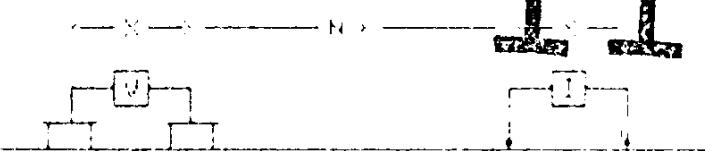
JACKPOT PROPERTY NELSON MILE

SALMO-BRITISH COLUMBIA

GEOLOGICAL BRANCH
ASSESSMENT REPORT

LINE NO 48

NEW JERSEY ZINC JACKPOT LB									X=200F	FFE
DIPOLE NUMBER	2	3	4	5	6	7	8	9		
COORDINATE	200S	200N	600N	1000N	1400N					
INTERPRETATION										
N=1	4.1	5.5	4.2	5.8	5.4	3.3	1.7	2	N=1	
N=2	4.1	4.5	6.1	3.9	4.8	3.3	2.5		N=2	
N=3	5.5	2.5	2.5	4.5	4.2	4.5			N=3	
N=4	4.5	3.2	3.7	5.3	5.5				N=4	
N=5									N=5	
N=6									N=6	



PLOTTING POINT X=200F

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE -----
PROBABLE
POSSIBLE *****

11,163
PART
3 OF 5

NEW JERSEY ZINC JACKPOT LB									X=200F	METAL FACTOR
DIPOLE NUMBER	2	3	4	5	6	7	8	9		
COORDINATE	200S	200N	600N	1000N	1400N					
INTERPRETATION	?	?		
N=1	2.2	19	8.2	8.7	2.5	5.1	1.9	2.6	N=1	
N=2	15	12	27	6	6.8	3.7	1.6		N=2	
N=3	15	53	4.4	13	5.2	3.6			N=3	
N=4	35	9.4	8.3	10	5.4				N=4	
N=5									N=5	
N=6									N=6	

FREQUENCY (HERTZ)
4 8 0 25 DATE SURVEYED JULY 1981
APPROVED

NOTE - CONTOURS
AT LOGARITHMIC
INTERVALS 1, 1.5
- 2, - 3, - 5, - 7, 5, - 10

DATE 7/1/81

PHOENIX GEOPHYSICS LTD.

INDUCED POLARIZATION
AND RESISTIVITY SURVEY