

REPORT ON THE  
COMBINED GEOPHYSICAL SURVEYS  
ON THE  
WOLF CLAIM GROUP

WATSON LAKE MINING DISTRICT, Y.T.  
NTS 105-B/9  
Latitude 60°33'N Longitude 130°02'W

FOR

CORDILLERAN ENGINEERING

By

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

Philip G. Hallof, Ph.D., P.Eng., Geophysicist

PHOENIX GEOPHYSICS LIMITED  
214 - 747 W Hastings Street  
Vancouver, B.C. V6C 1A6

NOVEMBER, 1980

CLAIMS: WOLF 1 - 46 .... YA45487-YA45532  
WOLF 47 - 50 .... YA46137-YA46140  
WOLF 51 - 52 .... YA45701-YA45702

WORK PERIOD: June 10 to June 27, 1980.

090671



This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of \$ 20,800.00

*[Signature]*

Resident Geologist or  
Resident Mining Engineer

Considered as representation work under  
Section 53 (4) Yukon Quartz Mining Act.

*[Signature]*  
E. R. BAXTER

Supervising Mining Recorder

*[Signature]*  
Commissioner of Yukon Territory

REPORT ON THE

COMBINED GEOPHYSICAL SURVEYS

ON THE

WOLF CLAIM GROUP

WATSON LAKE MINING DISTRICT, Y.T.

Latitude 60°33' N Longitude 130°02' W

FOR

PHOENIX GEOPHYSICS LIMITED

By

Paul A. Garwood, B.Sc., Geophysicist

and

Philip G. Hall, Ph.D., Geophysicist

PHOENIX GEOPHYSICS LIMITED  
514 - 747 W. Hastings Street  
Vancouver, B.C. V6C 1A6

NOVEMBER, 1980

CLAIMS:  
WOLF 1 - 18  
WOLF 43 - 50  
WOLF 51 - 52

WORK PERIOD:  
June 10 to June 27, 1980

000871

FROM Mining Recorder at WATSON LAKE

To Supervising Mining Recorder at Whitehorse, Y.T.



FOR ACTION ARE:

NEW APPL'N for PLACER LEASE to PROSPECT: Name: \_\_\_\_\_ Lease No \_\_\_\_\_

RENEWAL APPL'N PLACER LEASE to PROSPECT: Name: \_\_\_\_\_ Lease No \_\_\_\_\_

AFFIDAVIT of EXPENDITURE on PLACER LEASE. Name: \_\_\_\_\_ Lease No \_\_\_\_\_

ASSIGNMENT of PLACER LEASE No. \_\_\_\_\_  
From: \_\_\_\_\_ To: \_\_\_\_\_

GROUPING APPL'N UNDER SEC. 52(2) PLACER MINING ACT.  
Owner: \_\_\_\_\_

DIAMOND DRILL LOGS:  
Claims: \_\_\_\_\_ Claim sheet no. \_\_\_\_\_

QUARTZ ASSESSMENT REPORT  
Claims: WOLF 1-52 Claim sheet no. 105-B-9

Type of report: Geophysical Survey Submitted by: Cordilleran Engineering

Cls. work performed on: Wolf 1-2, 9-13, 17-20, 25-28, 33-38, 44, 47, 50, 51  
\$ Req. for ren. application 20,800<sup>00</sup>

[Signature]  
Signature

REPLY ACTION

Date Ret.

\_\_\_\_\_  
Signature

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9.	Certificate - P.G. Hallof		13
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 <u>Part B:</u>	 Illustrations	 29 pieces	
	Plan Map (in pocket)	Dwg. I.P.P. 4080	
	IP Data Plots	Dwgs. IP 5215-1 to -18	
	EM	Dwgs. EM 5216-1 to -5	
	MAG	Dwgs. M 5217-1 to -5	

PHOENIX GEOPHYSICS LIMITED

REPORT ON THE  
COMBINED GEOPHYSICAL SURVEYS  
ON THE  
WOLF CLAIM GROUP  
WATSON LAKE MINING DISTRICT  
YUKON TERRITORY  
FOR  
CORDILLERAN ENGINEERING LTD.

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1. INTRODUCTION

A program of combined geophysical surveying has been carried out on the Wolf Claim Group for Cordilleran Engineering Ltd. The geophysical techniques used included Induced Polarization, VLF-EM, and Total Field Magnetism.

The property is located approximately 100 km west-northwest of Watson Lake, Y.T., N.T.S. 105 B-9, and access was via charter aircraft.

The present program is a continuation of very limited test work carried out on the claim group during October 1979, using IP, Vertical Loop EM and Vertical Field Magnetism, in the vicinity of an outcrop of stratiform

massive sulfide mineralization.

Although the showing, which consists of lamellae of galena, sphalerite, and minor chalcopyrite and pyrite, did not respond to any of the geophysical methods employed, an interesting IP anomaly was outlined a short distance further to the west. No magnetic anomaly could be discerned over the IP target using vertical field magnetometer equipment, while only a very weakly anomalous EM response could be recorded using broadside configuration at frequencies of 600 Hz, and 2400 Hz. Because of these results, the 1980 follow-up program used more sensitive VLF-EM equipment, and proton total field magnetometer equipment, in addition to the Induced Polarization and Resistivity unit.

The reader is referred to the report by this author, dated January 9, 1980, which describes the geophysical orientation program on the Logan, Eagle, and Wolf claim groups, for additional information regarding the geology and previous work.

A Phoenix Model IPV-1, IPT-1 frequency domain IP system, operating at 5.0 Hz, and 0.31 Hz, was used to make the induced polarization and resistivity measurements, while a McPhar Model GP-70 proton magnetometer, together with a McPhar Model M-700 base station recorder were utilized for the magnetic readings. A Phoenix Model VLF-2 EM receiver was employed to record the VLF-EM results, using the Seattle, Washington transmitter.

All surveys were carried out under the supervision of Mr. John Marsh, Senior Crew Leader. His certificate of qualification is appended to this report.

Field Work on the Wolf Claim Group was completed during June 1980.

2. DESCRIPTION OF CLAIMS

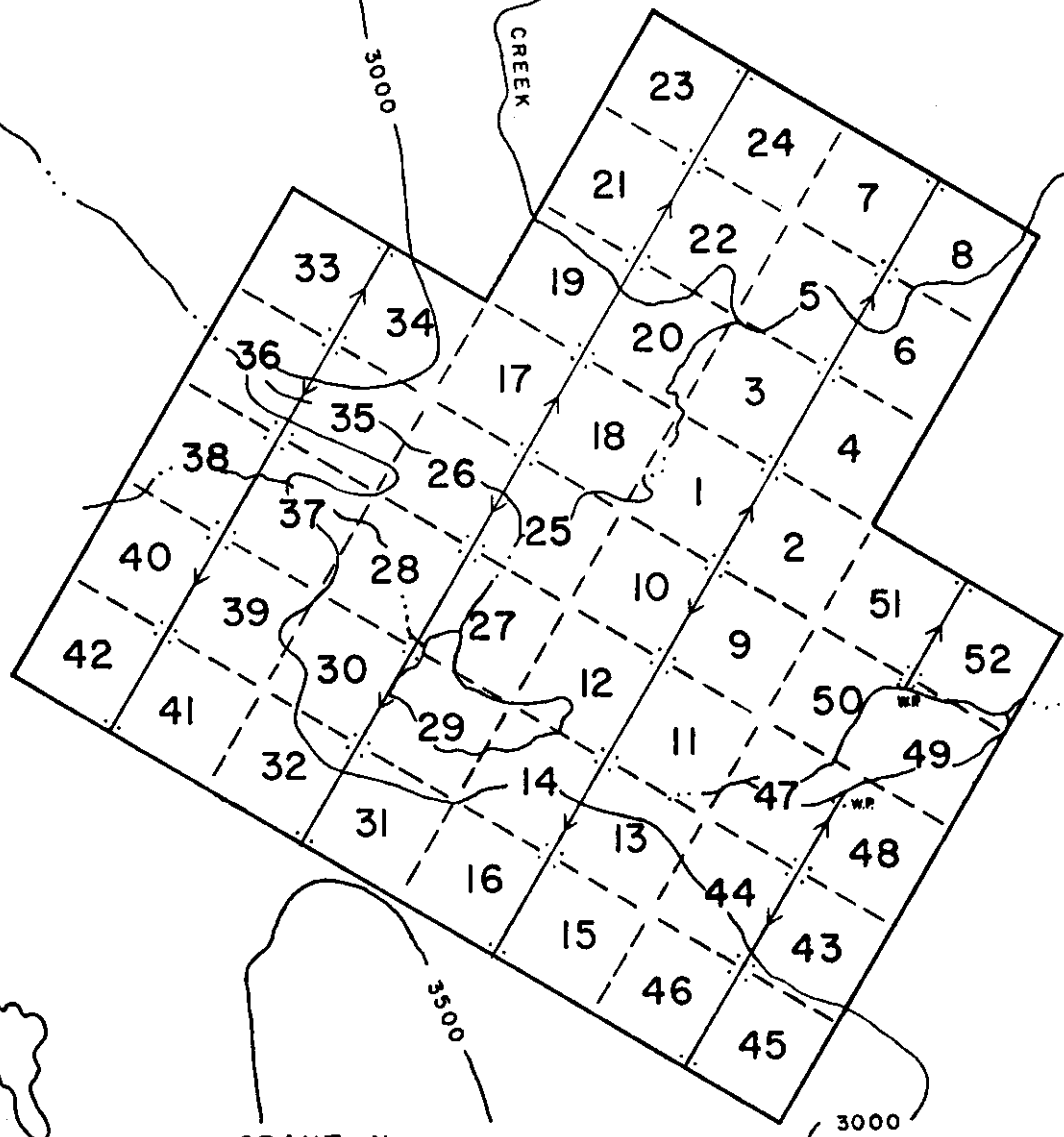
	<u>Grant No.</u>	<u>Expiry Date</u>
Wolf 1 - 46	YA 45487 - YA 45532	December 31, 1983
Wolf 47 - 50	YA 46137 - YA 46140	December 31, 1983
Wolf 51 - 52	YA 45701 - YA 45702	December 31, 1983

The reader is referred to Figure 4, a claim map of the property.

3. PRESENTATION OF RESULTS

The results of the geophysical surveys are shown on the following data plots. The induced polarization and resistivity data are plotted in pseudo-section form, while the VLF-EM and magnetometer data are presented as profiles.

<u>Line</u>	<u>Electrode Interval</u>	<u>Dwg. No.</u>
1400W	100M	IP 5215-1
1200W	100M	IP 5215-2
1000W	100M	IP 5215-3
800W	100M	IP 5215-4
	50M	IP 5215-5
600W	100M	IP 5215-6
400W	100M	IP 5215-7
200W	100M	IP 5215-8
0	100M	IP 5215-9
200E	100M	IP 5215-10
	50M	IP 5215-11
400E	100M	IP 5215-12
	50M	IP 5215-13
600E	100M	IP 5215-14



GRANT No.

WOLF	1-46	YA45487 - YA45532
WOLF	47-50	YA46137 - YA46140
WOLF	51-52	YA45701 - YA45702

CLAIM MAP

**WOLF GROUP**

WATSON LAKE MINING DISTRICT, YUKON TERRITORY

N.T.S. 105B - 9

SCALE: 1 inch = 1/2 mile

CONTOUR INTERVAL = 500 feet

FIGURE 4

<u>Line</u>	<u>Electrode Interval</u>	<u>Dwg. No.</u>
800E	100m	IP 5215-15
1000E	100M	IP 5215-16
1200E	100M	IP 5215-17
1400E	100M	IP 5215-18
1400W	25M	
1200W	25M	EM 5216-1
1000W	25M	
800W	25M	
600W	25M	EM 5216-2
400W	25M	
200W	25M	
0	25M	EM 5216-3
200E	25M	
400E	25M	
600E	25M	EM 5216-4
800E	25M	
1000E	25M	
1200E	25M	EM 5216-5
1400E	25M	
1400W	25M	
1200W	25M	M 5217-1
1000W	25M	
800W	25M	
600W	25M	M 5217-2
400W	25M	
200W	25M	
0	25M	M 5217-3
200E	25M	

<u>Line</u>	<u>Electrode Interval</u>	<u>Dwg. No.</u>
400E	25M	
600E	25M	M 5217-4
800E	25M	
1000E	25M	
1200E	25M	M 5217-5
1400E	25M	

Also enclosed with this report is Dwg. I.P.P. 4080, a plan map of the Wolf Claims grid. The definite, probable, and possible IP and Resistivity, and EM anomalies are indicated by symbols, in the manner shown on the legend, on this plan map as well as on the data plots.

The grid information shown on Dwg. I.P.P. 4080 has been taken from maps made available by the staff of Cordilleran Engineering Ltd.

#### 4. DISCUSSION OF RESULTS

The 1980 Wolf Claim Group grid consists of 15 lines, each 1200 meters in length, spaced at 200 meter intervals along a central baseline. All cross-lines have been surveyed completely using IP and Resistivity, VLF-EM, and Total Field Magnetism.

Very little relief is evident in the magnetic profiles with the maximum change being in the order of fifty gammas above background, on specific profiles. No discrete trends, which might map the underlying structure, can be identified.

A number of interesting zones are interpreted in the IP data, and these zones are discussed separately below. Where appropriate, coincident VLF-EM anomalies are included. In general, with a few exceptions, the IP anomalies and VLF-EM responses do not show good correlation. In these instances it would appear that the source of the IP anomaly occurs quite close to the surface. The centers of most of the other IP sources are indicated to lie at depths in

the order of 100 meters sub-surface, which would probably not allow their detection by VLF-EM methods. Other relatively anomalous VLF-EM signatures are evident in areas of little or no IP response. This could indicate that the VLF-EM is detecting small, very near-surface conductors, which are too limited in size to be seen by the 100 meter dipole-dipole assay used to make most of the IP measurements. Detail work using much shorter dipole lengths would be required to further investigate these anomalies.

#### IP ZONE B

This zone is interpreted to extend from the northwestern edge of the grid on Line 1400W to the vicinity of the Baseline on Line 0. At this point, a major displacement appears to have occurred, and it is uncertain whether Zone A or Zone C represents the southwesterly continuation.

Most of the anomalous patterns recorded in Zone B suggest the presence of a relatively conductive, deeply buried core, surrounded by more disseminated material. However, on Line 800W the conductive center of the source appears to lie relatively close to the surface. In fact, detail coverage using 50M dipoles in this location indicates the source is probably located within 25M of the surface, is strongly polarizable, and moderately conductive. A strongly anomalous VLF-EM response is exactly coincident with the center of IP response, and a depth to target of less than 25 meters is suggested.

#### IP ZONE D

Moderately anomalous IP effects mark this IP zone, which lies at a distance between 300 meters to 600 meters to the southwest of Zone B. The source of this zone is probably somewhat less concentrated than is the case of Zone B, with no conductive core being present. Depth to the top of the source mineralization is probably less than 50 meters beneath the ground surface,

while the width is not rigidly determined to the southwest due to insufficient coverage on Line 600W through to Line 200E.

The available data indicates the zone to be most anomalous on the southwestern end of Line 600W, where a well-defined VLF-EM anomaly can be seen coincident with the IP response.

#### IP ZONE C

This short, strongly anomalous zone is detected on three lines only, Line 200E, Line 400E, and Line 600E. As mentioned previously this trend may have originally been the continuation of Zone B or Zone D before being displaced by a major fault, which now appears to be marked by the creek running between Line 0 and Line 200E. The highest magnitude IP effects and most conductive resistivity values are recorded in the data from Line 200E. At this point, however, the source appears to be deeper than 100 meters, while on Line 400E, it probably extends within 50 meters of the surface. This interpretation is reinforced by the presence of a definite VLF-EM anomaly, which correlates well with the IP response.

#### IP ZONE A

Moderately anomalous results are noted throughout this IP zone, which can be seen extending from the vicinity of station 3+00N on Line 200E, to beyond the northeastern end of Line 1400E. Detail coverage is available over this zone on Line 200E. This work indicates that the source material extends well within 25 meters of the surface, and is only moderately polarizable and weak to moderately conductive. A probable anomalous VLF-EM response is plotted coincident with the IP anomaly.

The showing, which was originally tested with one east-west line in the 1979 orientation program, appears to be coincident with the projected location

of IP Zone A between Line 200E and Line 400E. It now seems that the line completed during the previous year passed alongside the mineralization in this particular area.

## 5. SUMMARY AND RECOMMENDATIONS

A combined geophysical program utilizing Induced Polarization and Resistivity, VLF-EM, and Total Field magnetic surveying, has been completed on the Wolf Claim group, in order to investigate the region around an interesting showing of lead-zinc mineralization.

Results of the magnetometer survey do not yield any significant structural information as the profiles are very uniform.

However, four very encouraging anomalous zones can be interpreted in the IP data. In some cases where the IP source is close enough to the surface, coincident VLF-EM anomalies are also recorded.

### IP ZONE A

The IP zone of most immediate interest is marked as Zone A on Plan Map I.P.P. 4080. Although this trend is not the most anomalous of the four zones detected, it does appear to outline the mineralization seen in the showing. Drill testing of Zone A is recommended on a first priority basis. A diamond drill hole, collared just south of the showing, and drilled 45° north for a length of 150 meters, is suggested.

### IP ZONE B

This IP zone is judged to be a second priority target for drill testing due to the very anomalous IP effects measured within the trend, and because the zone may be a continuation of Zone A. A drill hole spotted on Line 800W, Station 0+00 drilling 45° east-northeast for a length of 250 meters, is suggested.

IP ZONE C

It is recommended that additional work be planned on this zone on a third priority basis. A drill hole passing through a point approximately 50 meters below Station 2+00S is suggested.

IP ZONE D

Further IP and Resistivity surveying is required to completely define this zone to the southwest before physical testing by drilling is considered.

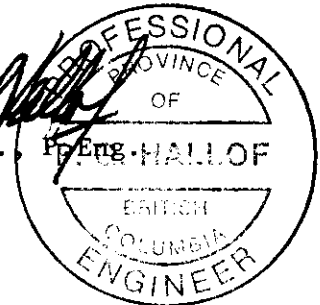
PHOENIX GEOPHYSICS LIMITED

*Paul A. Cartwright*

Paul A. Cartwright, B.Sc.,  
Geophysicist

*Philip G. Hallof*

Philip G. Hallof, Ph.D.,  
Geophysicist



Expiry Date: February 25, 1981

Dated: November 4, 1980



STATEMENT OF COST

Cordilleran Engineering Ltd.  
Geophysical Survey - Wolf Claims,  
Watson Lake M.D., Yukon Territory

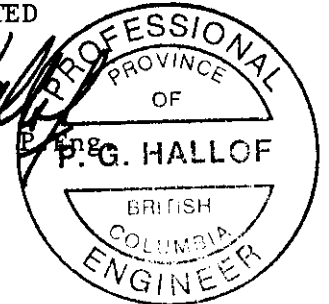
CREW: J. Marsh - G. Ouellette

PERIOD: June 10 - June 27, 1980

18 Line KM - IP Survey	@ \$385.00/KM	\$ 6,930.00
2 Days Detail	@ \$540.00/day	1,080.00
2 Days Standby	@ \$205.00/day	410.00
18 Line KM - VLF Survey	@ \$205.00/KM	3,690.00
18 Line KM - Mag Survey	@ \$100.00/KM	1,800.00
Mobilization - Demobilization		2,200.00
Freight Charges - EM unit to/from Watson		260.00
Rental EM Unit - 10 days	@ \$ 20.00/day	200.00
		<hr/>
		\$16,570.00
	Less Deposit	<hr/>
		3,000.00
		<hr/>
		\$13,570.00

PHOENIX GEOPHYSICS LIMITED

*Philip G. Hallof*  
Philip G. Hallof, Ph.D., E. Eng.  
Geophysicist



Expiry Date: February 25, 1981

Dated: November 4, 1980

CERTIFICATE

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

1. I am a geophysicist with an office at 744 West Hastings Street, Suite 214, 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.
4. I have been practising my profession about 9 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 Cordilleran Engineering 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

This 4th day of November, 1980

  
\_\_\_\_\_

Paul A. Cartwright, B.Sc.

CERTIFICATE

I, Philip George Hallof, of the City of Toronto, Province of Ontario, do hereby certify that:

1. I am a geophysicist residing at 15 Barnwood Court, Don Mills, Ontario.
2. I am a graduate of the Massachusetts Institute of Technology with a B.Sc. Degree (1952) in Geology and Geophysics, and a Ph.D. Degree (1957) in Geophysics.
3. I am a member of the Society of Exploration Geophysicists and the European Association of the Exploration Geophysicists.
4. I am a Professional Geophysicist, registered in the Province of Ontario, the Province of British Columbia and the State of Arizona.
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 Cordilleran Engineering 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 Toronto

This 4th day of November, 1980

  
Philip G. Hallof, Ph.D.



Expiry Date: February 25, 1981

CERTIFICATE

I, JOHN MARSH, of the Municipality of North York, Ontario, DO HEREBY CERTIFY THAT:

1. I am a geophysical crew leader residing at 200 Yorkland Blvd., Willowdale, Ontario.

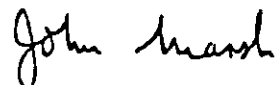
2. I am a graduate of the City of Norwich Technical College, U.K., ordinary National Certificate (Electrical Engineering)

3. I worked with McPhar Geophysics Company from 1968 to 1975 as a geophysical crew leader.

4. I am presently employed as a geophysical crew leader by Phoenix Geophysics Ltd. of Suite 214 - 744 West Hastings Street, Vancouver, B.C.

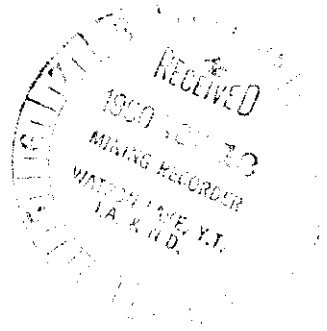
Dated at Vancouver, B.C.

This 29th Day of July, 1977



---

John Marsh



CANADA ) IN THE MATTER OF A GEOPHYSICAL REPORT  
TO WIT : ) ON BEHALF OF AMAX MINERALS EXPLORATION

I, CARL G. VERLEY, AGENT FOR CORDILLERAN ENGINEERING  
of 1418-355 BURDARD STREET, VANCOUVER, B.C. V6C 2G8  
do solemnly declare, - THAT GEOPHYSICAL SURVEYS WERE  
CONDUCTED ON THE WOLF #1-52 (INCLUSIVE) MINERAL  
CLAIMS, WATSON LAKE MINING DISTRICT, Y.T. DURING THE  
PERIOD JUNE 11 TO 27, 1980. EXPENDITURES FOR  
THIS WORK INCLUDE:

PROFESSIONAL SERVICES	.....	\$4,000.00
MANAGEMENT FEES	.....	2,134.79
SALARIES AND BENEFITS	.....	2,134.79
GEOPHYSICAL SURVEYS	.....	16,570.00
AIRCRAFT SUPPORT	.....	537.60
EQUIPMENT RENTAL	.....	625.00
FOOD	.....	632.49
PROPANE	.....	12.75
TOTAL		<u>\$ 26,647.42</u>

And I make this solemn declaration conscientiously believing it  
to be true and knowing that it is of the same force and effect as if  
made under oath and by virtue of the Canada Evidence Act.

Declared before me at VANCOUVER)  
in the Prov. of B.C. this )  
13 day of NOVEMBER 1980)

Carl G. Verley

[Signature]  
A notary Public in and for the  
Yukon Territory



# PHOENIX Geophysics Limited

200 YORKLAND BLVD., WILLOWDALE, ONTARIO, CANADA M2J 1R5

TELEPHONE (416) 493-6350

Telex: 06-986856

Cable: PHEXCO TORONTO

## I N V O I C E

July 29, 1980  
INVOICE NO. 1902



Cordilleran Engineering Ltd.  
1418 - 355 Burrard Street,  
Vancouver, B.C.  
V6C 2P8

Attention: Mr. J.W. Stollery

REFERENCE: Wolf Claims - Contract Number PV-1049 - Geophysical Survey,  
Watson Lake M.D., Y.T.

CREW: J. Marsh - G. Ouellette

PERIOD: June 10 - June 27, 1980 - Wolf Claims Completed

18 Line KM - IP Survey	@ \$385.00/km	\$ 6,930.00
2 Days Detail	@ \$540.00/day	1,080.00
2 Days Standby	@ \$205.00/day	410.00
18 Line KM - VLF Survey	@ \$205.00/km	3,690.00
18 Line KM - Mag Survey	@ \$100.00/km	1,800.00
Mobilization - Demobilization		2,200.00
Freight Charges - EM unit to/from Watson		260.00
Rental EM Unit - 10 days @ \$ 20.00		200.00

**\$16,570.00**

Less deposit

3,000.00

**\$13,570.00**

COPIES OF INVOICE

Account Name *hmarc*

Account No. *Wolf*

Invoice No. *206*

Extens. no.

Voucher No.

Approved *[Signature]*

Date Paid *1980-7-14*

PHOENIX GEOPHYSICS LIMITED

*[Signature]*

3. Certificates of insurance are available on request and details of any specific policy may be obtained from our Insurance Brokers, Morris & MacKenzie Limited.

Terms

All charges are stated in Canadian funds, payable in Vancouver.

Payment is requested according to the following schedule:

- \$3,000.00 on signing the contract.
- \$10,000.00 on completion of each 30 days field work.
- Remainder on delivery of the report.

Phoenix reserves the right to discontinue the survey if payments are not received according to the above schedule.

Phoenix will endeavor to initiate this survey as close to the agreed starting date as possible. However, due to factors beyond our control (i.e. extended periods of bad weather, or previous survey extensions) it may not be possible to meet a specified date.

Overdue accounts will bear interest at the rate of 1% per month.

If the foregoing meets with your approval, please signify by signing and returning the enclosed copy.

Yours very truly,  
PHOENIX GEOPHYSICS LIMITED

*Ashton W. Mullan*  
Ashton W. Mullan

AWM/pr

CORDILLERAN ENGINEERING LTD.

SIGNED:

*[Signature]*  
May 28/80

DATED:

PROJECT NO. PV-1049

*Amare*  
*Wref # 1094*  
*300* *3000*  
*#0120*  
*May 28/80*



**CORDILLERAN ENGINEERING**

1418 MARINE BUILDING, 355 BARRARD STREET, VANCOUVER, BRITISH COLUMBIA V6C 2G8 TEL: (604) 681-8381

I N V O I C E

July 3, 1980

AMAX of Canada Limited  
 #601 - 535 Thurlow St.  
 Vancouver, B.C.  
 V6E 3L6

Re: MANAGEMENT AND OPERATION OF MEISTER AND WOLF  
 JOINT VENTURE  
 Month of June 1980

PROFESSIONAL SERVICES: (all Field Work)

<u>Wolf:</u>	J.W.Stollery, 2 d x \$250/d			
	C.G.Verley 20 d x \$250/d			
	22 d x \$250/d	.....	\$ 5,500.00	101
<u>Meister:</u>	J.W.Stollery, 1 d x \$250/d	1/2		
	C.G.Verley 10 d x \$250/d	(7C, 3E)		
	11 d x \$250/d	.....	2,750.00	101

MANAGEMENT FEE: (100% of gross wages + HP)

<u>Wolf:</u>	.....	3,197.67	
<u>Meister</u> (Caribou):	.....	936.33	4,134.00 102

RENTALS:

<u>Wolf:</u>			
Cordilleran vehicle	1/3 mo x \$900	..	300.00 301
"	Camp Equipment 1 mo x \$1000	..	1,000.00 303
"	SBX11 Radio 1 mo x \$250	..	250.00 304
			1,550.00

Postage (Wolf \$3.70, M \$7.39) ..... 11.09 403

TOTAL AMOUNT DUE \$13,945.09

*Wolf Meister*

101	5500.00	2750.00
102	3197.67	936.33
301	300.00	
303	1000.00	
304	250.00	
403	3.70	7.39
	<u>9951.37</u>	<u>3693.72</u>

*13,945.09*

# CANADIAN PROPANE GAS & OIL LTD.

Box 20  
WATSON

THE DELIVERABLE MADE IN  
LITRES  IMP. GALS

PREVIOUS

YOUR SALES NO.

FINISH  
IMPERIAL GALLONS

TANK SIZE

SERIAL

% FINISH

DELIVERED TO

TERMS

80-00-10 DATE 10-06-16

**SOLD TO**

NAME  
ADDRESS  
CUSTOMER NO. *Camp Wolf*

C	PROPANE	QTY	UNIT PRICE	AMOUNT
82	DOMESTIC			
83	COMMERCIAL			
85	CARBURETION			
86	GOVERNMENT			
81	DEALER			
27	METERGAS DELIVERY			
03	GASOLINE - PREMIUM	<i>503</i>		
05	GASOLINE - REGULAR			
45	100 # REFILLS (45 KG)			
45	20 # REFILLS (9KG)			
		<i>40#</i>		
				<i>12.75</i>
				<i>12.75</i>

CASH SALE \$  
 ON ACCT \$ *F10*  
 TOTAL CASH REC'D \$ *12.75*

SALESMAN'S SIGNATURE *Om*  
 CUSTOMER'S SIGNATURE *Riff*

TRUCK No. 253495

1.0% SERVICE CHARGE MONTHLY (21% PER ANNUM) ON OVERDUE ACCOUNTS



# Camp-Ground Services Ltd.

FOOD MARKET — IMPORTED DELICATESSEN — MAGAZINES

TIRES - HUSKY GASOLINE & OIL

BOX 345 - PHONE 536-7448 - TELEX 036-8-8557 - WATSON LAKE, Y.T.

CORDILLERAN ENG.

DATE JUNE 13 1980

Wolf Property

YOUR ORDER NO.

TERMS

QTY.	DESCRIPTION	PRICE	AMOUNT
12	Asstd. Herring Snacks		
1	Ketchup		2.13
1	Mustard		4.92
6	Tomato Sauce		4.58
6	Tomato Paste		6.34
1	Mayonnaise		1.13
2	Salad Dressing		4.64
2	Olives		2.18
1	Grape Jelly		2.19
3#	Peanut Butter		5.15
4#	Honey		7.90
1#	Molasses		1.20
2	Maple Syrup		4.99
1	Rolled Oats		1.22
4	Spices		4.90
5#	Table Salt		2.97
1#	Rive Brown		1.93
1#	Tapioca		1.50
1	Corn Starch		1.44
2#	Chocolate Chips		8.70
6924		TOTAL	65.85
SIGNATURE			

# Camp-Ground Services Ltd.

FOOD MARKET — IMPORTED DELICATESSEN — MAGAZINES

TIRES - HUSKY GASOLINE & OIL

BOX 345 - PHONE 536-7448 - TELEX 036-8-8557 - WATSON LAKE, Y.T.

CORDILLERAN ENG.

DATE JUNE 13 1980

Wolf Property

YOUR ORDER NO.

TERMS

QTY.	DESCRIPTION	PRICE	AMOUNT
1#	Almonds		6.18
1#	Walnuts		4.92
1#	Baking Coconut		1.96
1#	Evap. Apricots		2.47
2#	Dates		2.10
1#	Prunes		2.74
2#	Raisins		3.49
1#	Shelled Peanuts		2.54
1	Olive Oil		1.13
2pkg	Sandwich Baggies		1.14
1	Saran Wrap		2.92
1	Foil Wrap		2.15
1	Wax Paper		1.21
1pkg	Lunch Bags		1.14
4rl	Paper Towel		4.10
8rl	Toilet Paper		2.92
1	Laundry Detergent		2.28
1	Dish Detergent		2.10
1	Rubbing Alcohol		1.14
6925		TOTAL	54.64
SIGNATURE			

# Camp-Ground Services Ltd.

FOOD MARKET — IMPORTED DELICATESSEN — MAGAZINES

TIRES - HUSKY GASOLINE & OIL

BOX 345 - PHONE 536-7448 - TELEX 036-8-8557 - WATSON LAKE, Y.T.

SOLD TO CORDILLERAN ENG. DATE JUNE 13 1980  
Wolf Property YOUR ORDER NO. \_\_\_\_\_

TERMS \_\_\_\_\_

QTY.	DESCRIPTION	PRICE	AMOUNT
4kg	Br. Sugar		7.46
4	Frozen Orange Juice		5.50
12doz	Eggs		18.12
10#	Canned Butter		24.70
1	Cottage Cheese		1.59
1	Salad Cream		7.71
1#	Cheese Slices		3.59
10#	Bulk Cheese		31.50
8oz	Imported Cheese		2.42
1	Parmesan Cheese		2.45
1cs	UHT Milk		11.61
1	Whipping Cream		10.56
5#	Milk Powder		11.73
6	Canned Milk		4.74
2#	Lard		2.34
1 pt	Yoghurt		-
12	Canned Fruit		11.81
2	Whole Beets		1.34
4	Gr. Beans		2.76

6922

SIGNATURE *RWP*

TOTAL

159.61

# Camp-Ground Services Ltd.

FOOD MARKET — IMPORTED DELICATESSEN — MAGAZINES

TIRES - HUSKY GASOLINE & OIL

BOX 345 - PHONE 536-7448 - TELEX 036-8-8557 - WATSON LAKE, Y.T.

SOLD TO CORDILLERAN ENG. DATE JUNE 1980  
Wolf Property YOUR ORDER NO. \_\_\_\_\_

TERMS \_\_\_\_\_

QTY.	DESCRIPTION	PRICE	AMOUNT
4	Carrots & Peas		3.60
4	Mushrooms		4.36
5	Peas		3.45
2#	Pumpkin		-
6	Tomatoes		1.10
4pkg	Kraft Dinner		2.44
1bx	Macaroni		2.49
5#	Flour		3.15
10#	Wh. Wh. Flour		5.35
5#	Coffee		26.15
1pkg	Tea		4.51
5cs	Zip top Juice		13.25
1cs	Pineapple Juice		-
1cs	V8 Juice		15.60
2	Baby Clams		4.50
6	Herring in tins		-
2	Sockeye Salmon		-
6	Brun. Sardines		-
2	Chunk & Solid Tuna		-

6923

SIGNATURE *RWP*

TOTAL

96.86

# Camp-Ground Services Ltd.

FOOD MARKET — IMPORTED DELICATESSEN — MAGAZINES

TIRES - HUSKY GASOLINE & OIL

BOX 345 - PHONE 536-7448 - TELEX 036-8-8557 - WATSON LAKE, Y.T.

CORDILLERAN ENG.

DATE JUNE 13 1980

SOLD TO \_\_\_\_\_ DATE \_\_\_\_\_ 1980

Wolf Property

YOUR ORDER NO. \_\_\_\_\_

TERMS \_\_\_\_\_

QTY.	DESCRIPTION	PRICE	AMOUNT
2#	Hamburger		4.80
30	only Beef Sausage		3.74
2#	Round Steak		7.66
4#	Beef Shoulder Rst.		12.66
3#	Veal Chops		16.14
7#	Sliced Bacon		12.25
1	Cottage Roll		16.57
5pkg	Asstd. Lunch Meat		6.66
4#	Chicken Piecs		11.34
6	Cod Fillets/30# Potatoes		14.16
5#	Onions		3.75
4#	Carrots		2.12
1	Turnip		
1bun	Radishes		4.00
2bun.	Gr. Onions		9.00
3	Lettuce		3.00
1pkg	Celery		1.75
12	Tomatoes		2.97
1bun.	Parsley		3.99
6920		TOTAL	137.89
SIGNATURE			

# Camp-Ground Services Ltd.

FOOD MARKET — IMPORTED DELICATESSEN — MAGAZINES

TIRES - HUSKY GASOLINE & OIL

BOX 345 - PHONE 536-7448 - TELEX 036-8-8557 - WATSON LAKE, Y.T.

CORDILLERAN ENG.

DATE JUNE 13 1980

SOLD TO \_\_\_\_\_ DATE \_\_\_\_\_ 1980

Wolf Property

YOUR ORDER NO. \_\_\_\_\_

TERMS \_\_\_\_\_

QTY.	DESCRIPTION	PRICE	AMOUNT
3#	Broccoli		5.40
1#	Mushrooms		2.23
1	Red Pepper		
6	Gr. Peppers		2.76
3	Cucumbers		11.36
2bx	Garlic		1.00
3doz	Apples		5.49
6	Plums		6.00
2#	Cherries		2.31
6	Pears		2.74
3doz	Oranges		6.66
12	Grapefruit		5.40
12	Bananas		2.70
6	Lemons		1.50
2	Cantaloupe		1.30
106	Bread		5.50
1bx	Graham Wafers		1.50
1	Wheat Thins		1.00
4kg	White Sugar		7.49
10	10. supplies		9.90
6921		TOTAL	73.58
SIGNATURE			

# B.C.-YUKON AIR SERVICE LTD.

## CHARTER AND CONTRACT TICKET

Date June 11 1952 A/C Type 44 CF 114A

Pilot W. J. ... Base ...

Charge to ...

Address 50/50 Wolf  
Muskeg

For Passage From: Cranberry To: Half Moon

To: Casiboo To: Half Moon

To: Water To: \_\_\_\_\_

To: \_\_\_\_\_ To: \_\_\_\_\_

Fare: 192 Miles @ \$ 1.70 \$ 326.40

Fuel 192 Hours @ \$ .40 \$ 76.80

Contract Rate Geophysical \$ \_\_\_\_\_

gone to Half Moon \$ \_\_\_\_\_

2 hours gone - Cranberry \$ \_\_\_\_\_

to Half Moon \$ \_\_\_\_\_

\_\_\_\_\_ \$ \_\_\_\_\_

Total Charge \$ 403.20

This ticket is expressly subject to the conditions printed on the reverse side of ticket and which are hereby accepted.

Authorized by W. J. ...

No 12063

# B.C.-Y KON AIR SERVICE LTD.

CHARTER AND CONTRACT TICKET

1051

Date June 17 1980 A/C Type CESSNA CF DIY

Pilot L. P. [unclear] Base Watson

DATE June 20/80

Charge to CONDOSSERAN

IN ACCOUNT WITH: \_\_\_\_\_

Address COLE PROJECT

ADDRESS: \_\_\_\_\_

For Passage From: Watson To: 22 [unclear]

To: Watson To: \_\_\_\_\_

To: \_\_\_\_\_ To: \_\_\_\_\_

To: \_\_\_\_\_ To: \_\_\_\_\_

DATE:
June 17/80

Fare: 112 Miles @ \$ 1.70 \$ 190.40

11 Hours @ \$ 40 \$ 440.00

Contract Rate 1.66 [unclear], [unclear] \$ \_\_\_\_\_

planned time: Watson - [unclear] \$ \_\_\_\_\_

\$ \_\_\_\_\_

\$ \_\_\_\_\_

\$ \_\_\_\_\_

201 Total Charge \$ 235.20

AMOUNT
\$ 235.20
\$ 235.20

This ticket is expressly subject to the conditions printed on the reverse side of ticket and which are hereby accepted.

Authorized by [Signature]

**Nº 12147**

CHARTER AND CONTRACT T T  
**B.C.-YUKON AIR SERVICE LTD.**

1078

P.O. BOX 68 WATSON LAKE, YUKON TUA 1G8

Date June 23 1980 A/C Type C-185 CF AMH

Pilot [Signature] Base Watson

Charge to [Signature]

HNH

Address \_\_\_\_\_

\_\_\_\_\_

For Passage From Watson To Prosser Lake

To: Watson To: \_\_\_\_\_

To: \_\_\_\_\_ To: \_\_\_\_\_

To: \_\_\_\_\_ To: \_\_\_\_\_

Fare: 100.00 Miles @ \$ 1.08 \$ 108.00

12.00 Hours @ \$ 7.40 \$ 88.80

Contract Rate \_\_\_\_\_ \$ \_\_\_\_\_

100.00 100.80

\$ \_\_\_\_\_

201.60 \$ \_\_\_\_\_

Total Charge \$ 201.60

This ticket is expressly subject to the conditions printed on the reverse side of ticket and which are hereby accepted.

Authorized by \_\_\_\_\_

No. 12451

DATE June 23  
 IN ACCOUNT WITH  
 ADDRESS:

DATE:
June 20/80
June 21/80

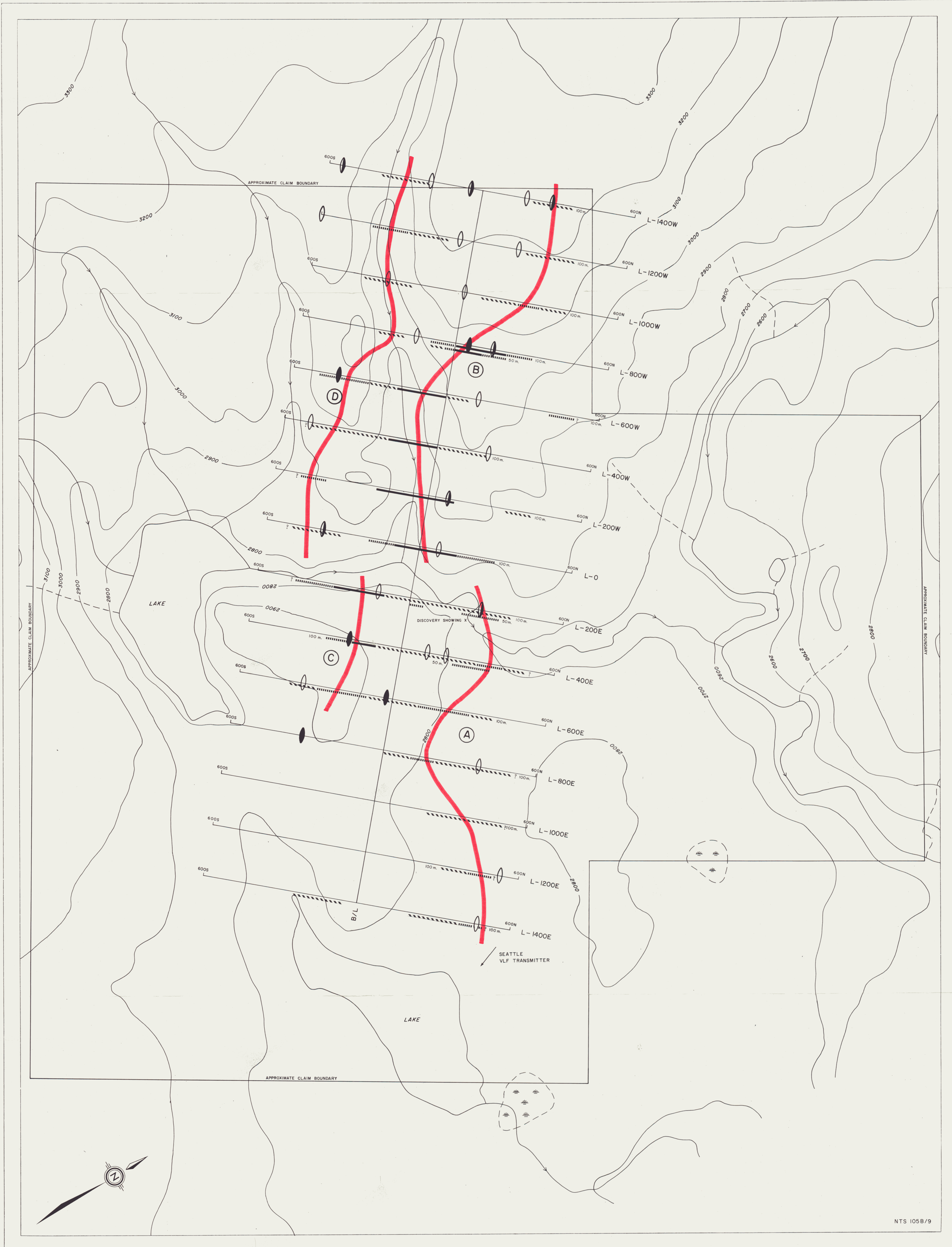
	AMOUNT
	\$ 201.60
	<del>201.60</del>
	201.60
<b>TOTAL</b>	<b>\$ 403.20</b>

*Handwritten notes on a separate piece of paper:*  
 Waef 100.80  
 Meister 655.80  
 755.80  
 201  
 201  
 0.60

PHOENIX GEOPHYSICS LIMITED

COMBINED GEOPHYSICAL SURVEYS

PLAN MAP



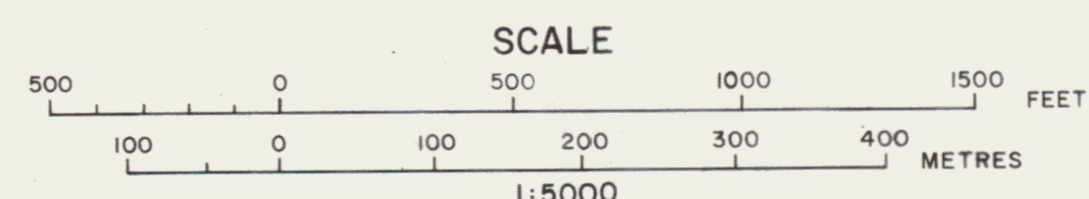
NTS 105B/9

I.P. ANOMALY CLASSIFICATION  
 SURFACE PROJECTION OF ANOMALOUS ZONE  
 DEFINITE   
 PROBABLE   
 POSSIBLE   
 NUMBER AT END OF ANOMALIES INDICATES SPREAD USED.

VLF-EM ANOMALY CLASSIFICATION  
 CONDUCTOR SYMBOLS  
 DEFINITE   
 PROBABLE   
 POSSIBLE

CORDILLERAN ENGINEERING LIMITED

WOLF CLAIM GROUP, WATSON LAKE M.D.  
YUKON TERRITORY



- AXIS OF ANOMALOUS I.P. ZONE

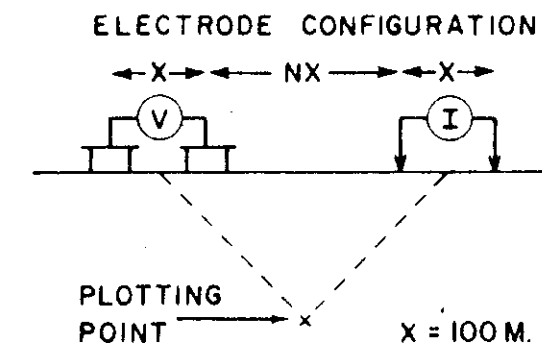
DRAWN BY: MNR  
 CHECKED BY: P. G. HALL  
 APPROVED BY: P. G. HALL  
 DATE: 2/11/80  
 EXPIRY DATE: FEBRUARY 25, 1981

# CORDILLERAN ENGINEERING LTD.

WOLF CLAIM GROUP, WATSON LAKE M.D.

YUKON TERRITORY

LINE NO. - 1400W



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE **—————**

PROBABLE **.....**

POSSIBLE **///////**

FREQUENCIES 0.3 - 5.0 HZ.

DATE SURVEYED JUNE 1980

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

APPROVED

*Philip St. Hallos*

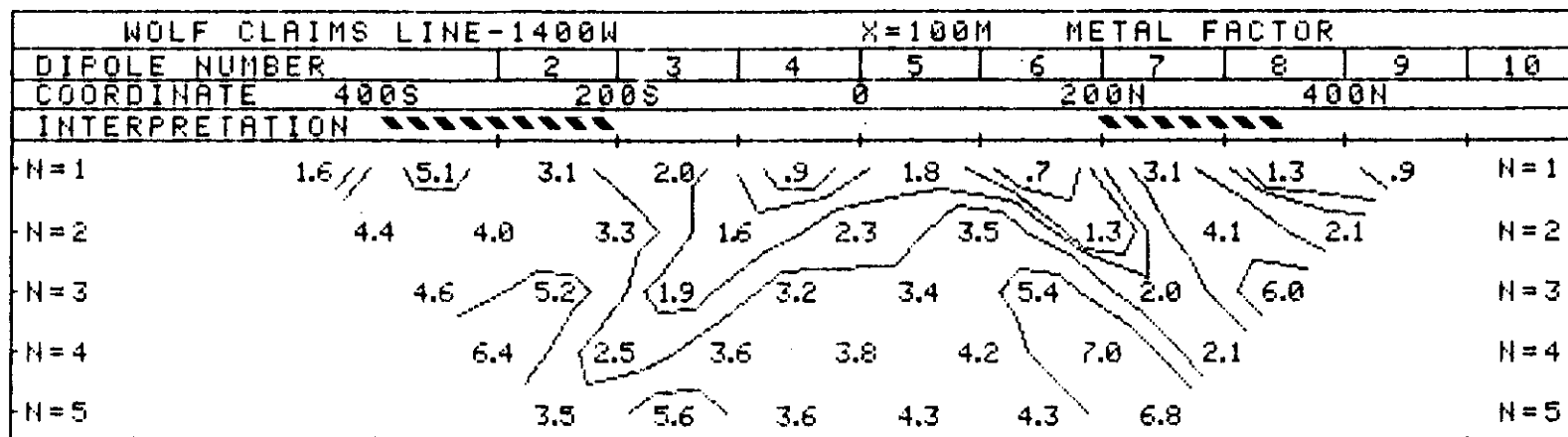
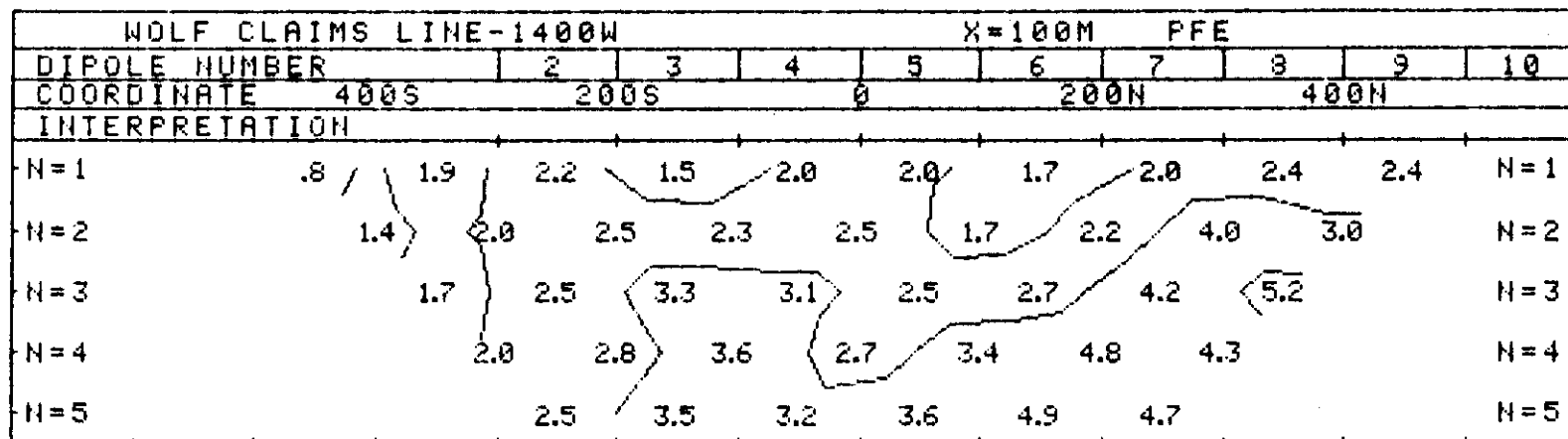
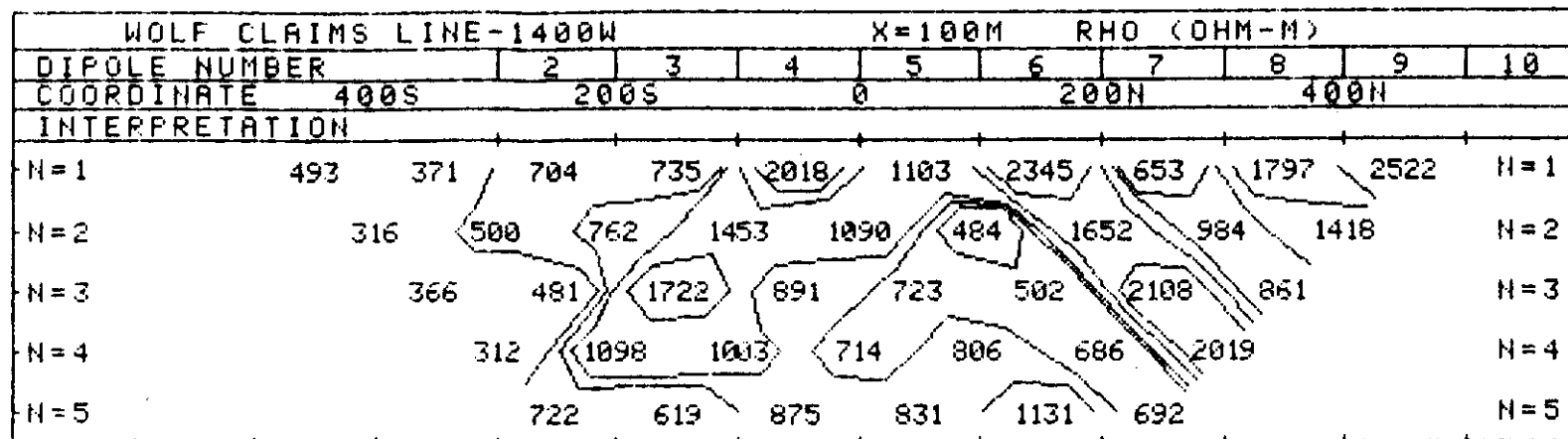
DATE P. G. HALLOS

PROFESSIONAL ENGINEER  
BRITISH COLUMBIA

Expiry Date: February 25, 1981

## PHOENIX GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY

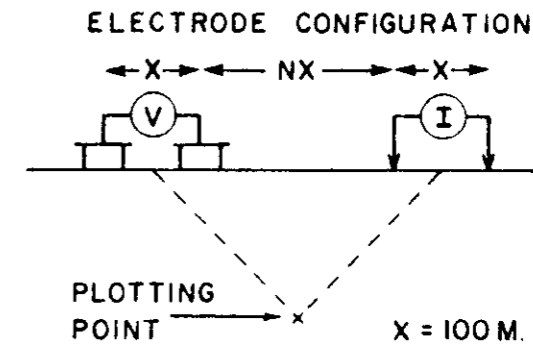


# CORDILLERAN ENGINEERING LTD.

WOLF CLAIM GROUP, WATSON LAKE M.D.

YUKON TERRITORY

LINE NO. - 1200W



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE **—————**  
 PROBABLE **.....**  
 POSSIBLE **///////**

FREQUENCIES 0.3 - 5.0 HZ.

DATE SURVEYED JUNE 1980

APPROVED

*Philip S. Gallop*  
 PROFESSIONAL ENGINEER  
 PROVINCE OF BRITISH COLUMBIA  
 4/11/80

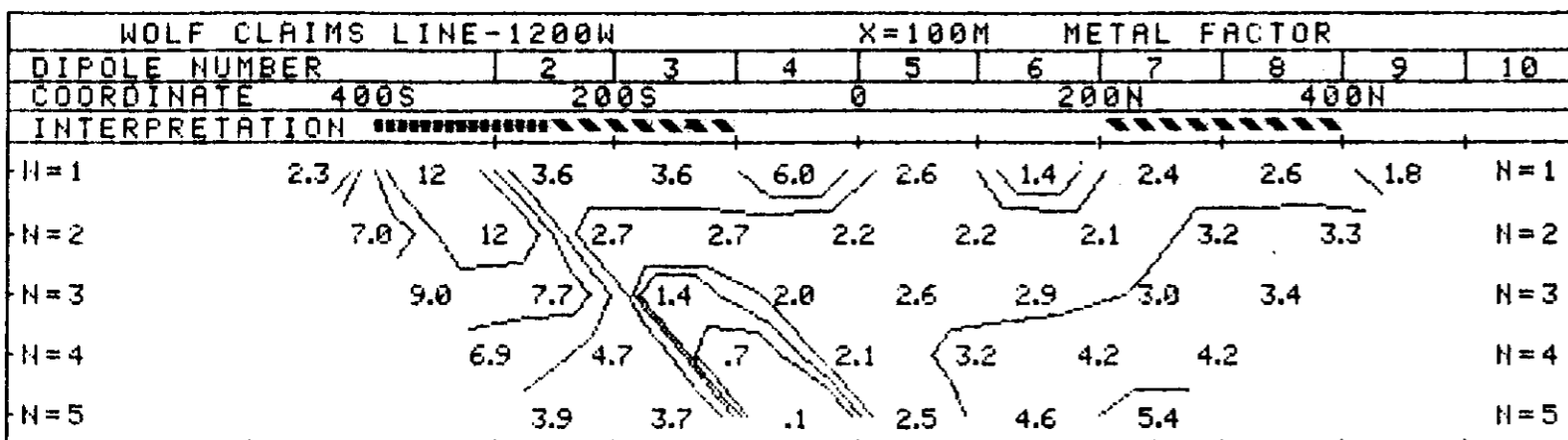
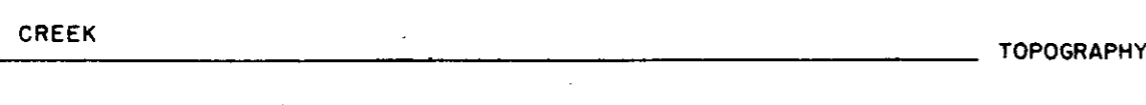
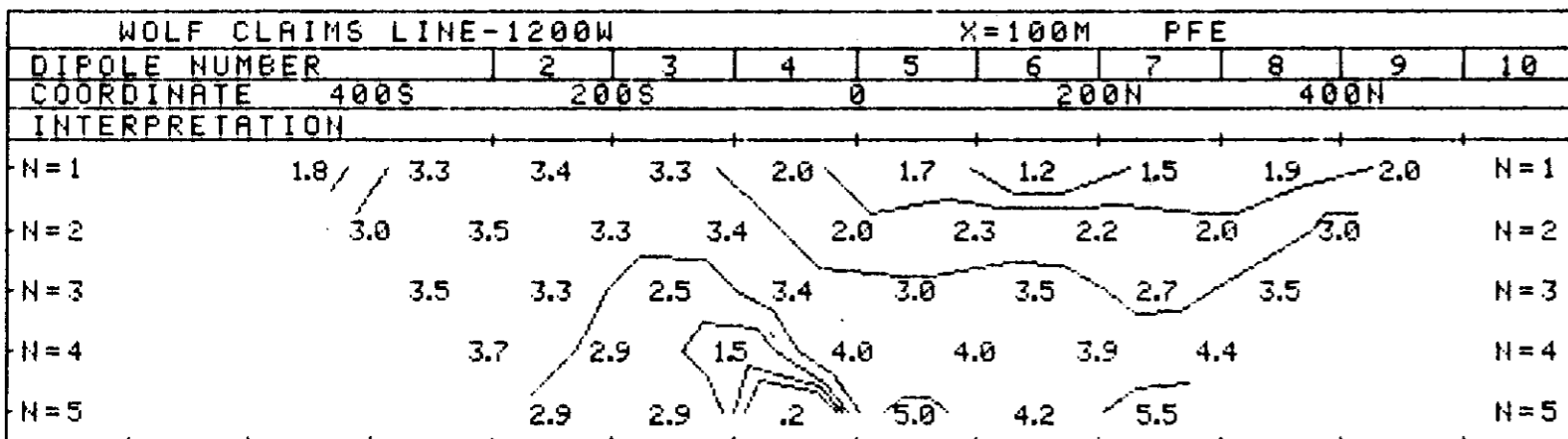
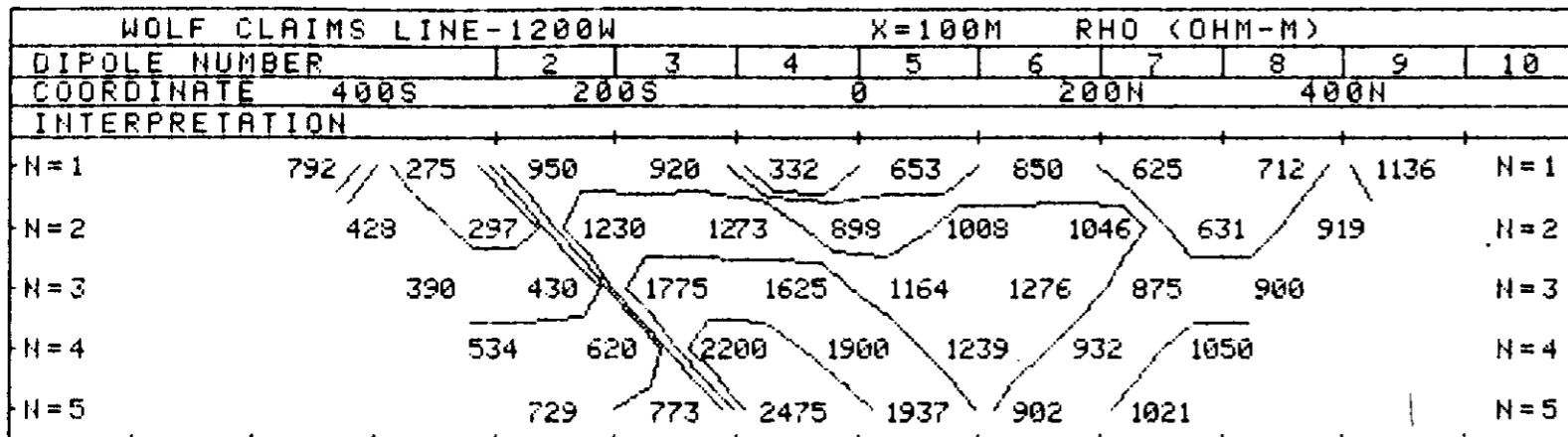
DATE

Expiry Date: February 25, 1981

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

## PHOENIX GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY

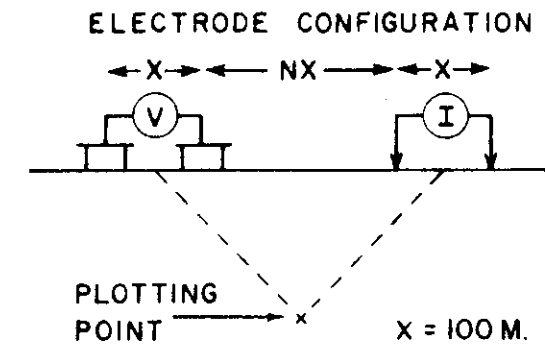


# CORDILLERAN ENGINEERING LTD.

WOLF CLAIM GROUP, WATSON LAKE M.D.

YUKON TERRITORY

LINE NO. - 1000W



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE

PROBABLE

POSSIBLE

FREQUENCIES 0.3 - 5.0 HZ.

DATE SURVEYED JUNE 1980

APPROVED

*Philip A. Hullof*

P. G. HULLOOF

BRITISH COLUMBIA ENGINEER

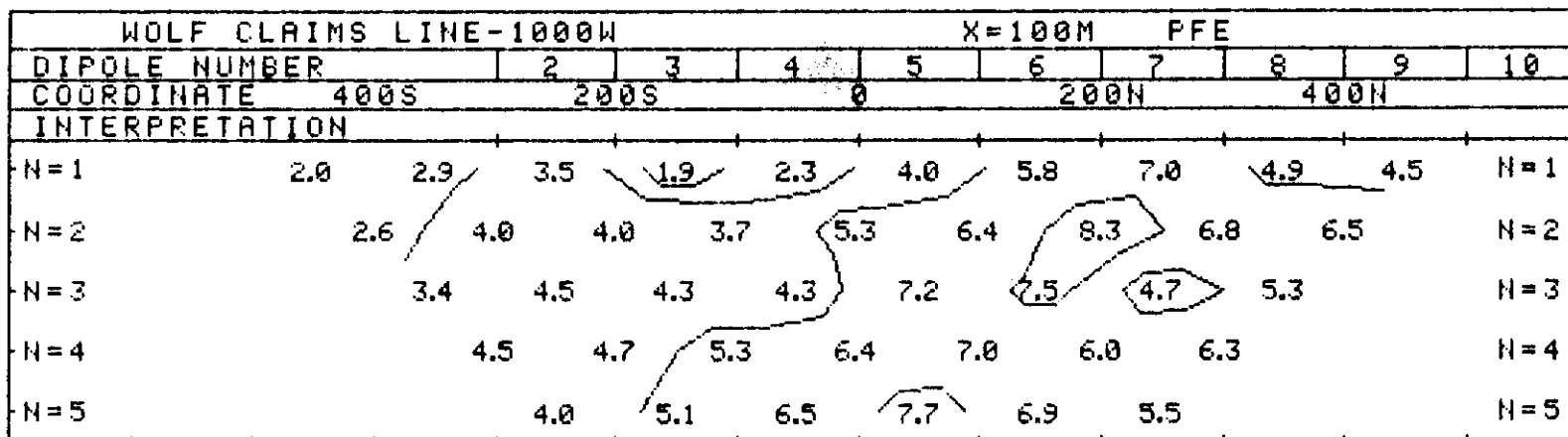
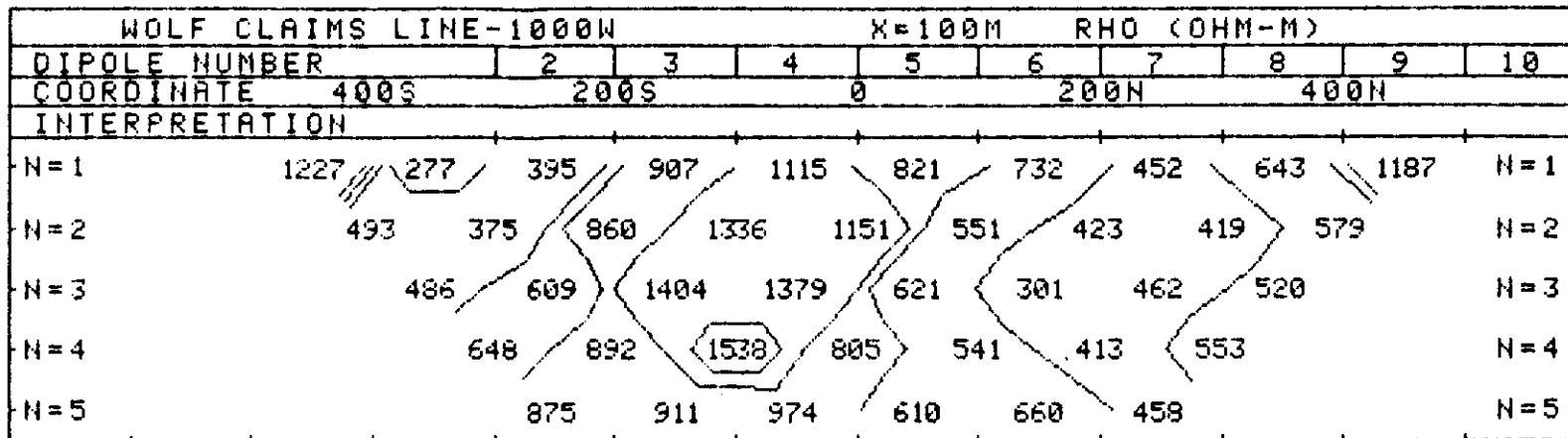
NOTE - CONTOURS AT LOGARITHMIC INTERVALS 1, -1.5, -2, -3, -5, -7.5, -10

DATE

Expiry Date: February 25, 1981

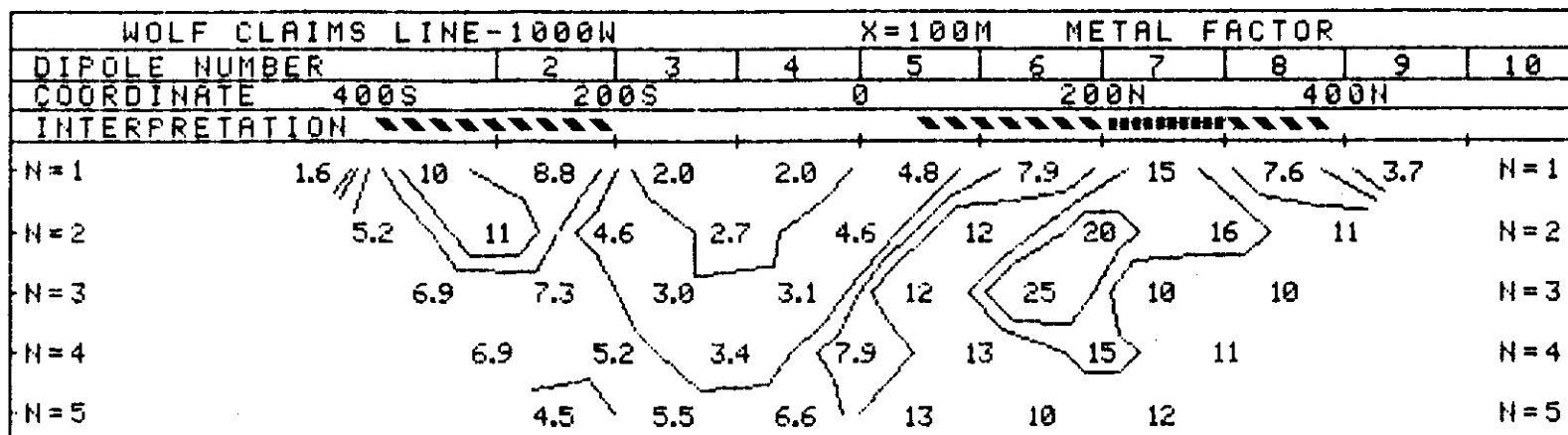
## PHOENIX GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY



CREEK

TOPOGRAPHY

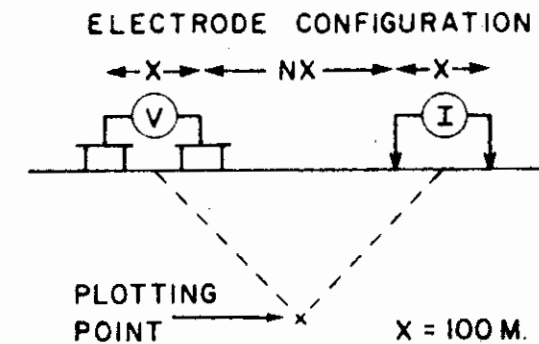


# CORDILLERAN ENGINEERING LTD.

WOLF CLAIM GROUP, WATSON LAKE M.D.

YUKON TERRITORY

LINE NO. - 800W



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE **—————**  
 PROBABLE **.....**  
 POSSIBLE **///////**

FREQUENCIES 0.3-5.0 HZ.

DATE SURVEYED JUNE 1980

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

APPROVED

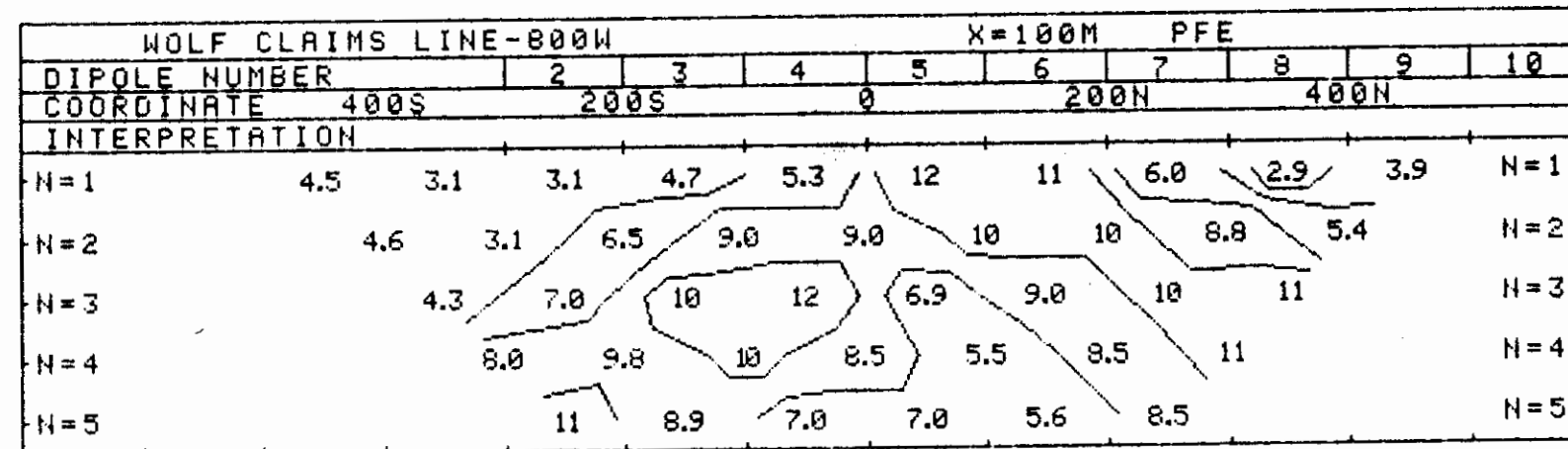
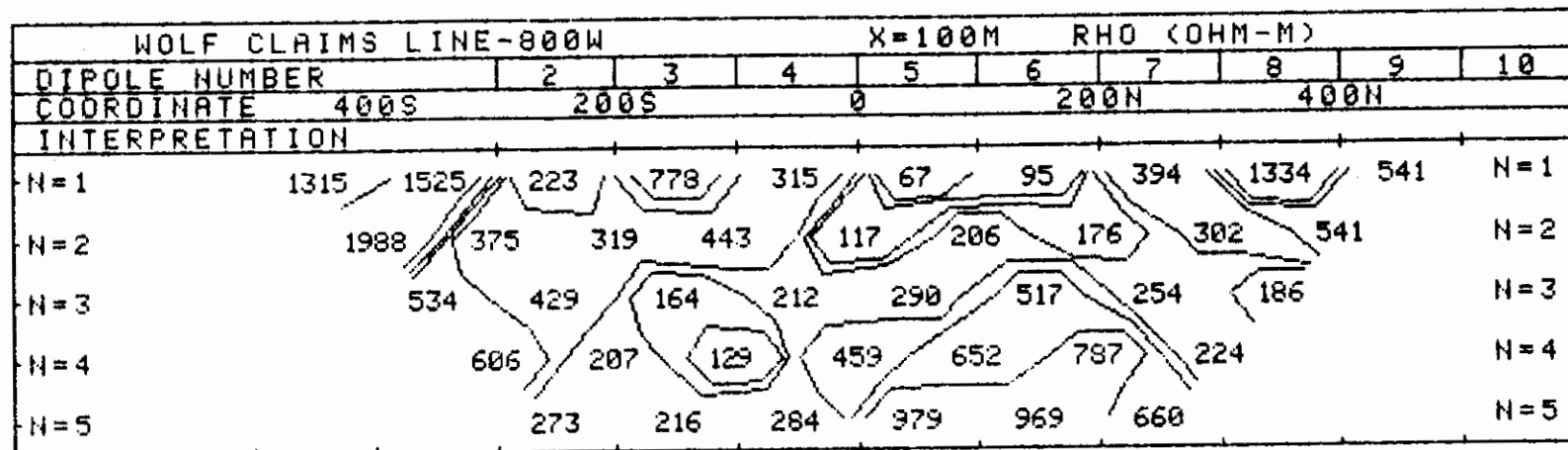
*Phillip L. Hall*  
 P. S. WALLACE  
 BRITISH COLUMBIA ENGINEER

DATE

Expiry Date: February 25, 1981

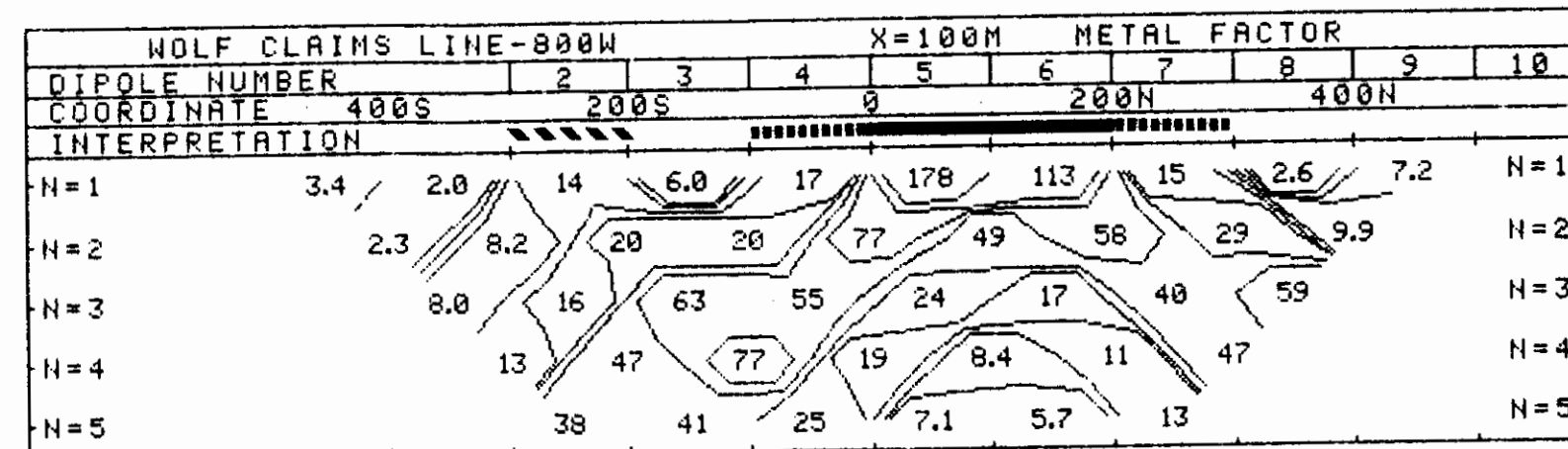
## PHOENIX GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY



CREEK

TOPOGRAPHY



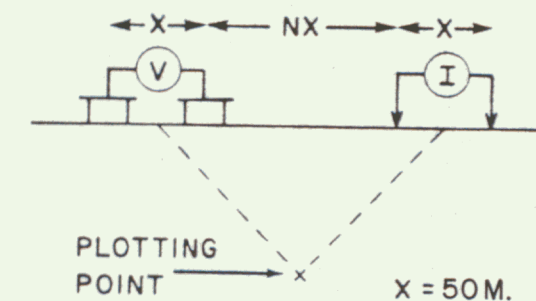
# CORDILLERAN ENGINEERING LTD.

WOLF CLAIM GROUP, WATSON LAKE M.D.

YUKON TERRITORY

LINE NO. - 800W

ELECTRODE CONFIGURATION



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE   
 PROBABLE   
 POSSIBLE

FREQUENCIES 0.3 - 5.0 HZ.

DATE SURVEYED JUNE 1980

APPROVED

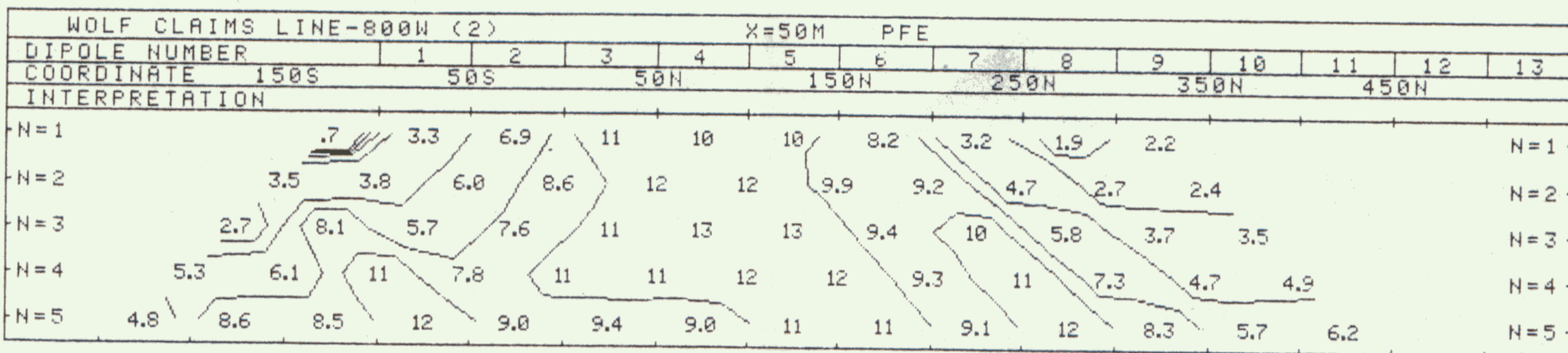
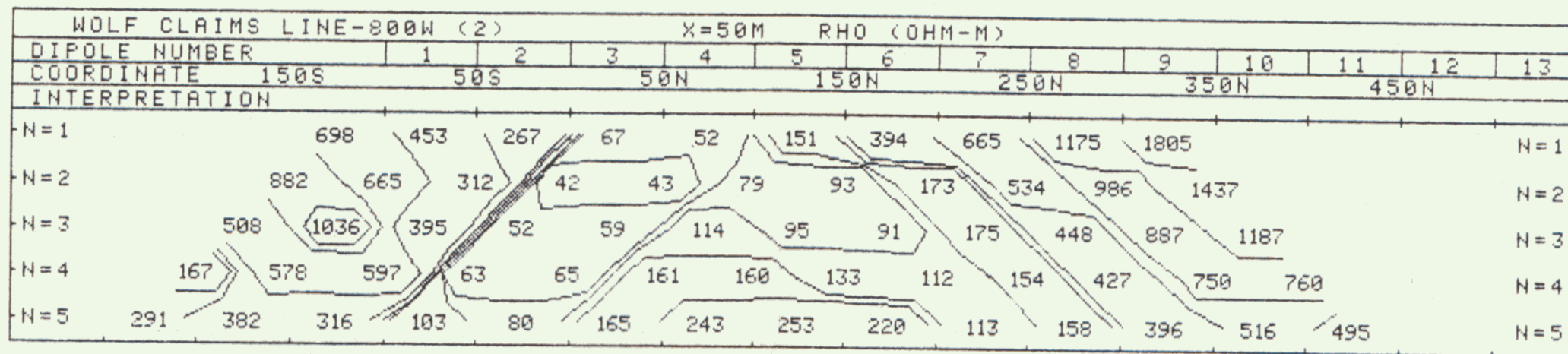
*Philip L. Hall*  
 P. G. HALL  
 4/11/80

DATE

Expiry Date: February 25, 1981

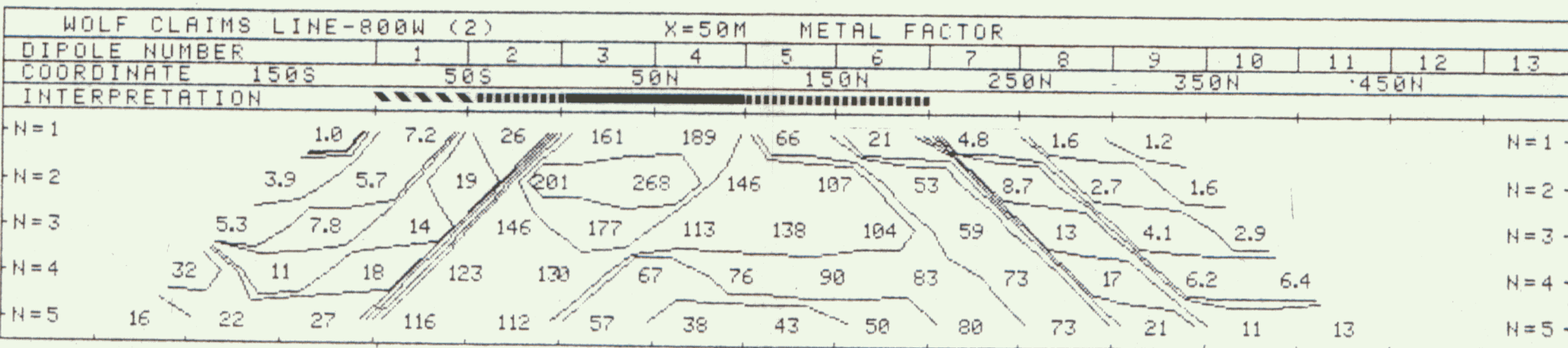
## PHOENIX GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY



CREEK

TOPOGRAPHY



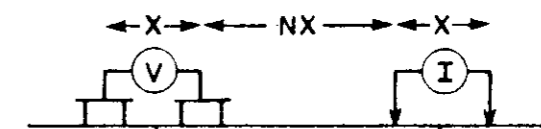
# CORDILLERAN ENGINEERING LTD.

WOLF CLAIM GROUP, WATSON LAKE M.D.

YUKON TERRITORY

LINE NO. - 600W

ELECTRODE CONFIGURATION



PLOTTING POINT X = 100 M.

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE   
 PROBABLE   
 POSSIBLE

FREQUENCIES 0.3 - 5.0 HZ.

DATE SURVEYED JUNE 1980

APPROVED

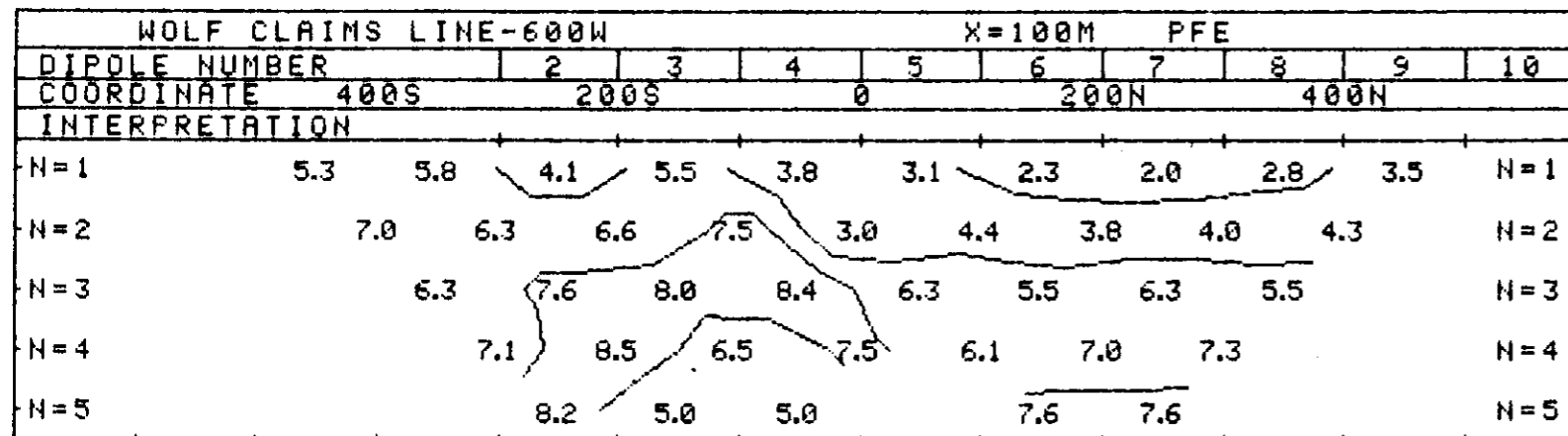
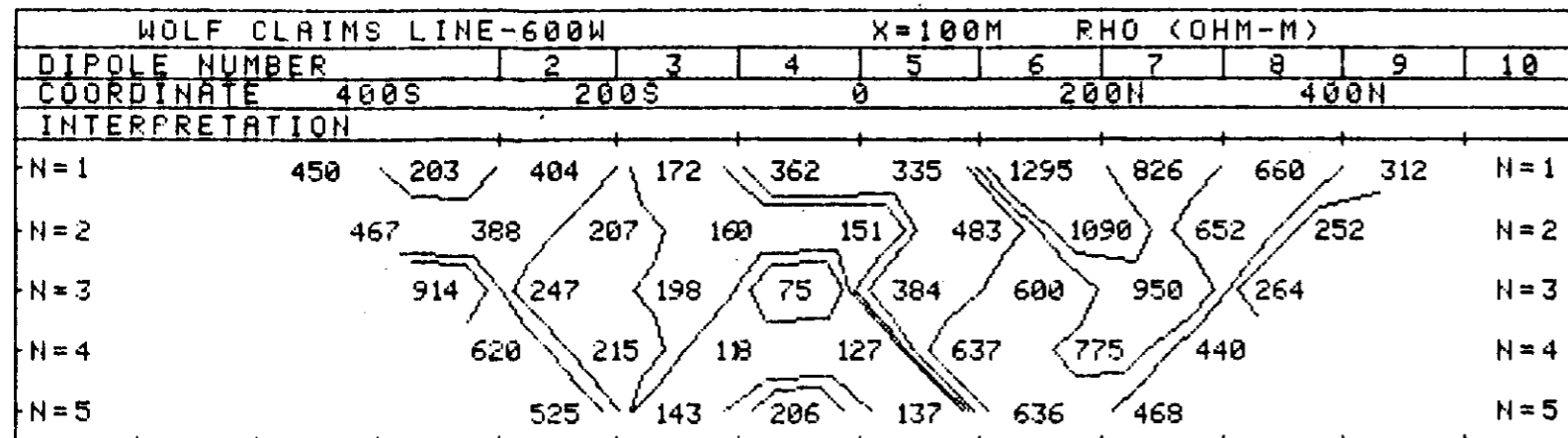
*Philip A. Hall*  
 P. A. HALL  
 BRITISH COLUMBIA ENGINEER

Expiry Date: February 25, 1981

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

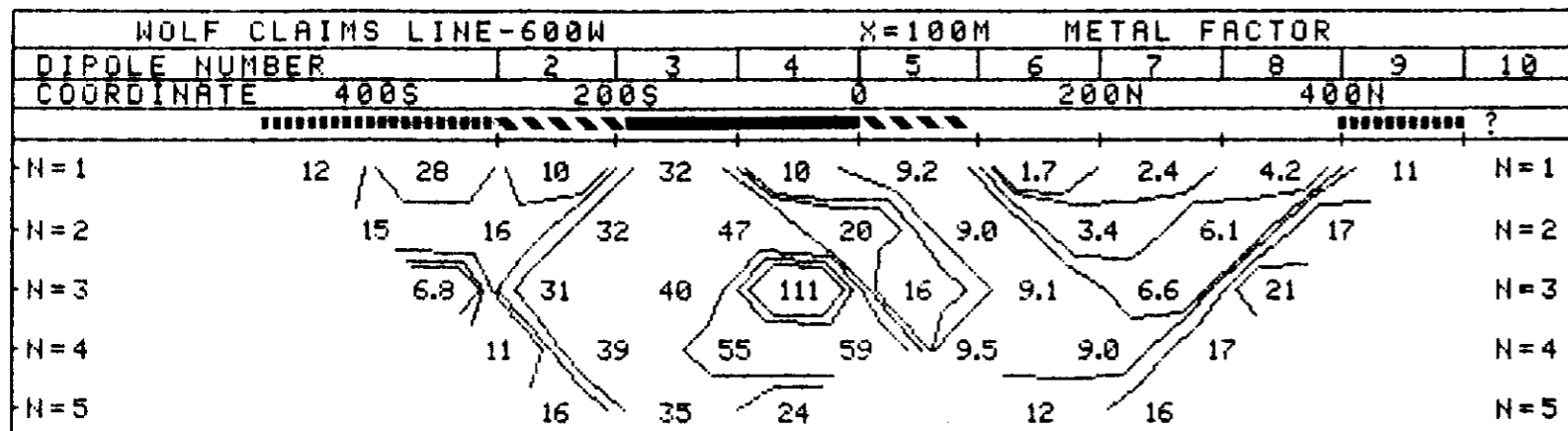
## PHOENIX GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY



CREEK

TOPOGRAPHY



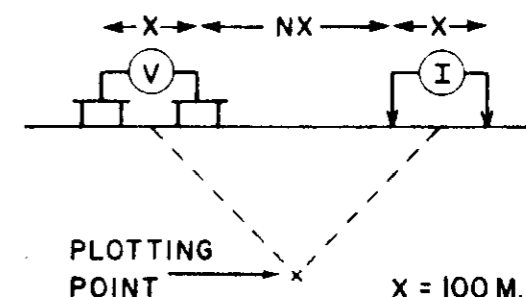
# CORDILLERAN ENGINEERING LTD

WOLF CLAIM GROUP, WATSON LAKE M.D.

YUKON TERRITORY

LINE NO. - 400W

ELECTRODE CONFIGURATION



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE **—————**  
 PROBABLE **.....**  
 POSSIBLE **///////**

FREQUENCIES 0.3 - 5.0 HZ.

DATE SURVEYED JUNE 1980

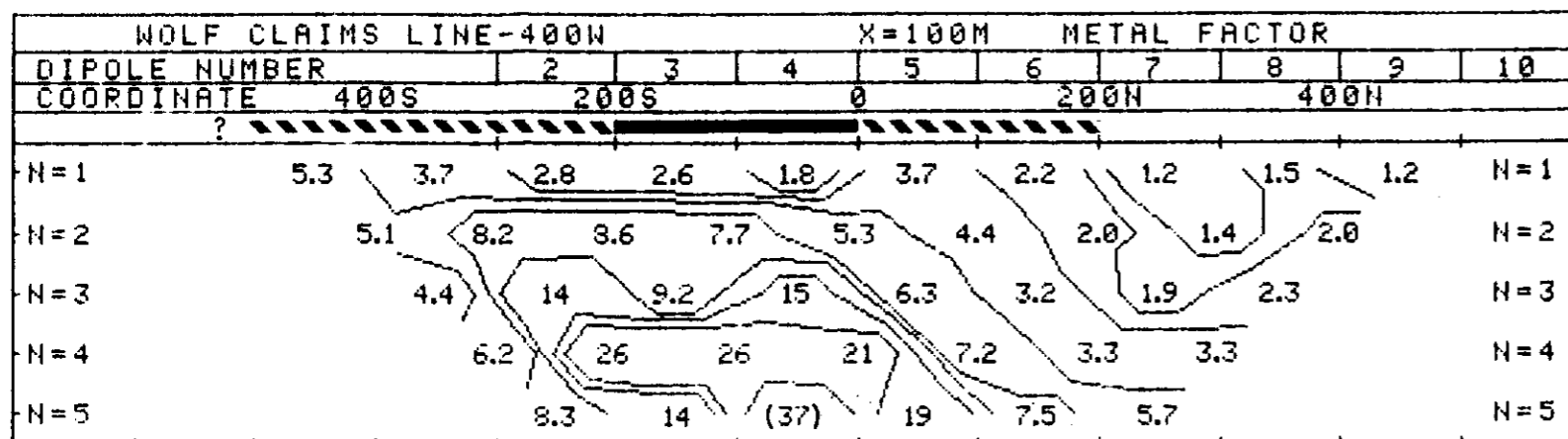
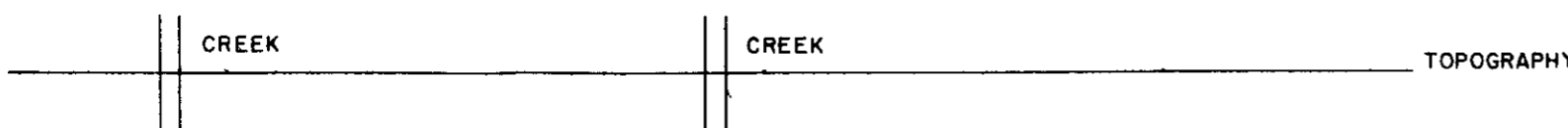
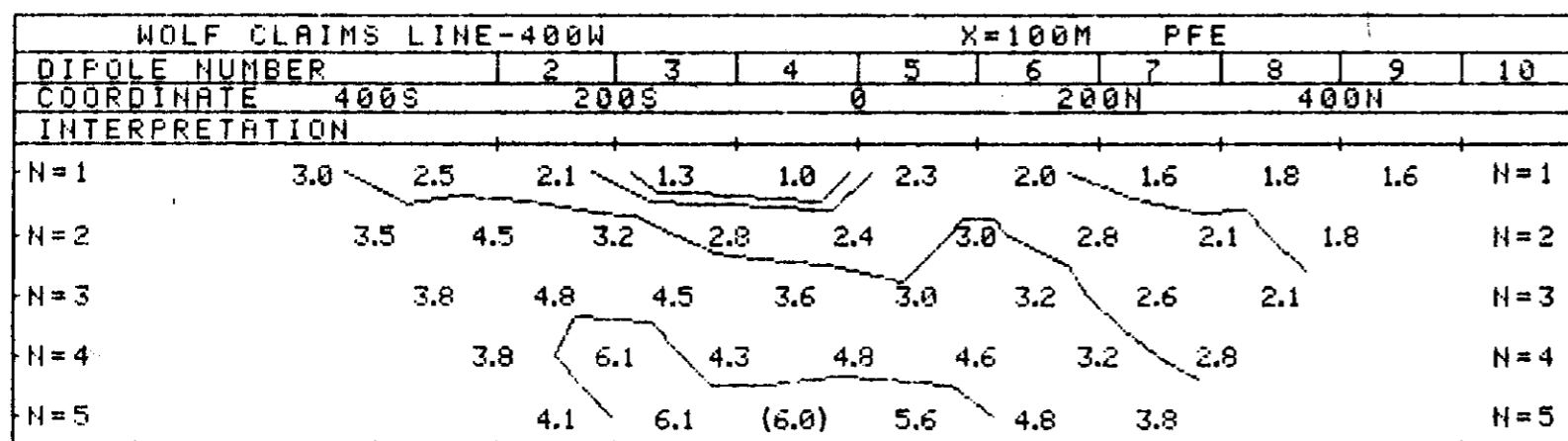
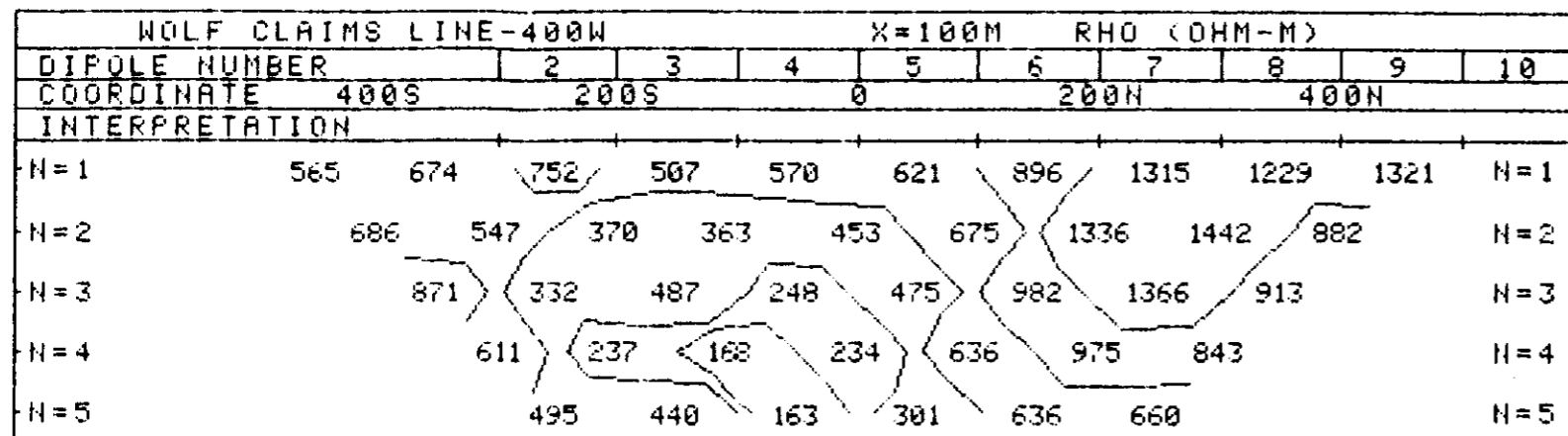
NOTE - CONTOURS AT LOGARITHMIC INTERVALS 1, -1.5, -2, -3, -5, -7.5, -10

APPROVED  
*Philip A. Hall*  
 P. G. HALL  
 4/11/80  
 DATE  
 BRITISH COLUMBIA ENGINEER

Expiry Date: February 25, 1981

## PHOENIX GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY



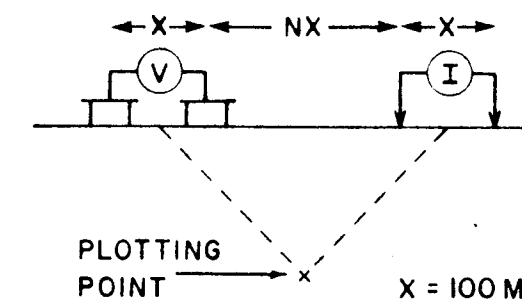
# CORDILLERAN ENGINEERING LTD

WOLF CLAIM GROUP, WATSON LAKE M.D.

YUKON TERRITORY

LINE NO. - 200W

ELECTRODE CONFIGURATION



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE **—————**  
 PROBABLE **.....**  
 POSSIBLE **///////**

FREQUENCIES 0.3-5.0 HZ.

DATE SURVEYED JUNE 1980

APPROVED

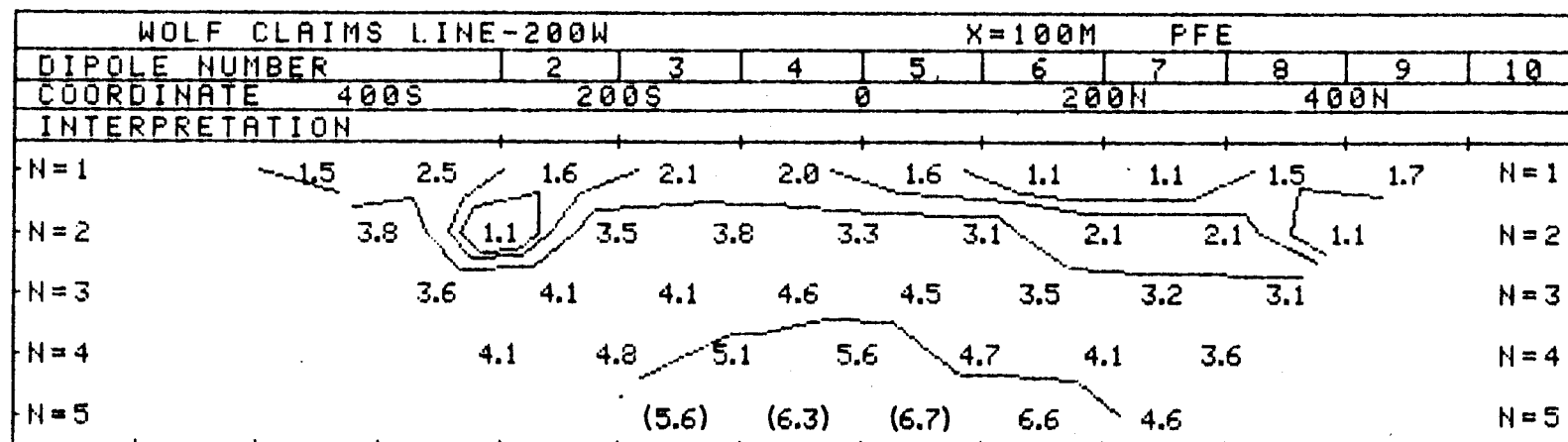
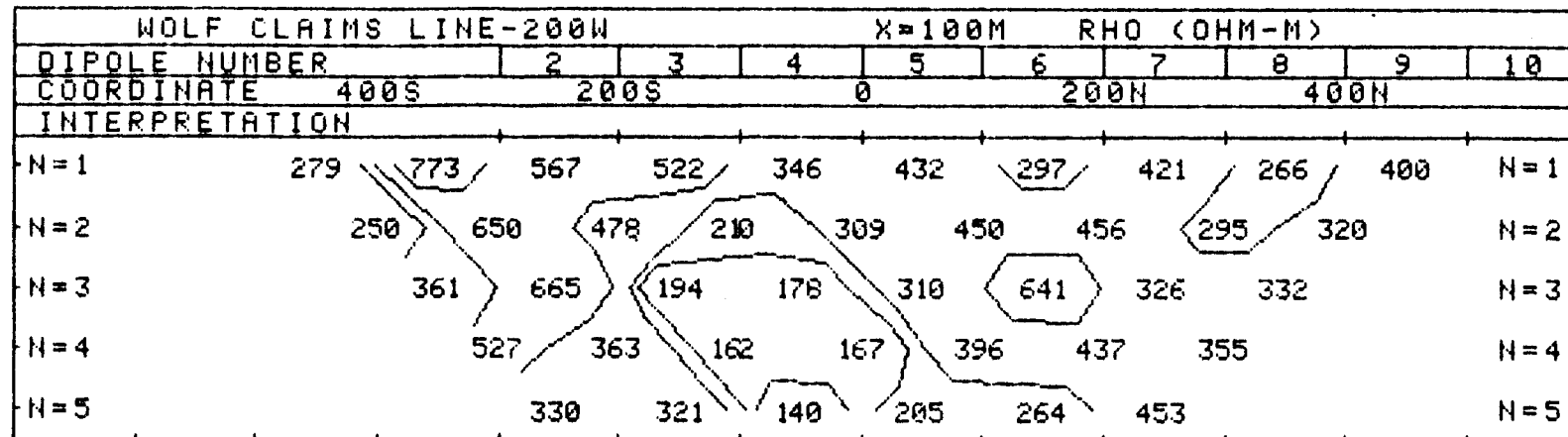
*Philip A. Hall*  
 P. G. HALL  
 DATE 7/17/80  
 BRITISH COLUMBIA ENGINEER

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

Expiry Date: February 25, 1981

## PHOENIX GEOPHYSICS LIMITED

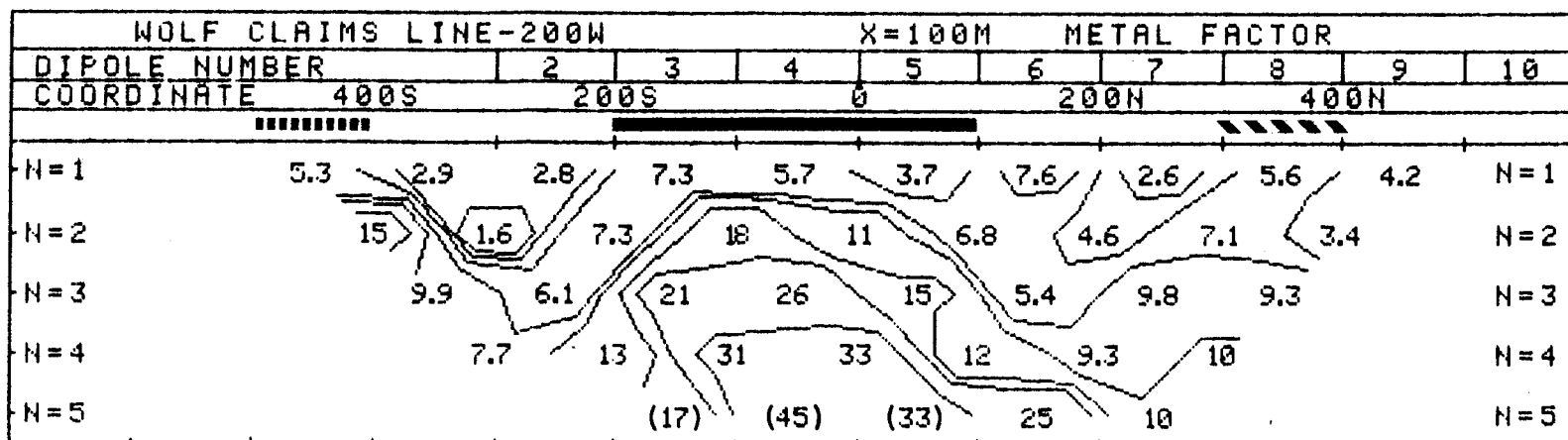
INDUCED POLARIZATION AND RESISTIVITY SURVEY



CREEK

CREEK

TOPOGRAPHY



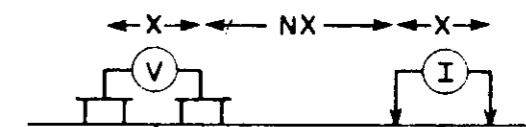
# CORDILLERAN ENGINEERING LTD.

WOLF CLAIM GROUP, WATSON LAKE M.D.

YUKON TERRITORY

LINE NO. - 0

ELECTRODE CONFIGURATION



PLOTTING POINT  $\rightarrow$  X = 100M.

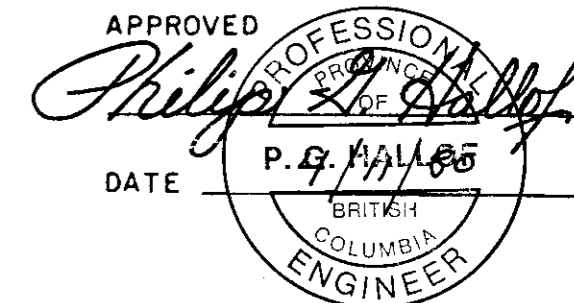
SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE **—————**  
 PROBABLE **.....**  
 POSSIBLE **~~~~~**

FREQUENCIES 0.3 - 5.0 HZ.

DATE SURVEYED JUNE 1980

APPROVED



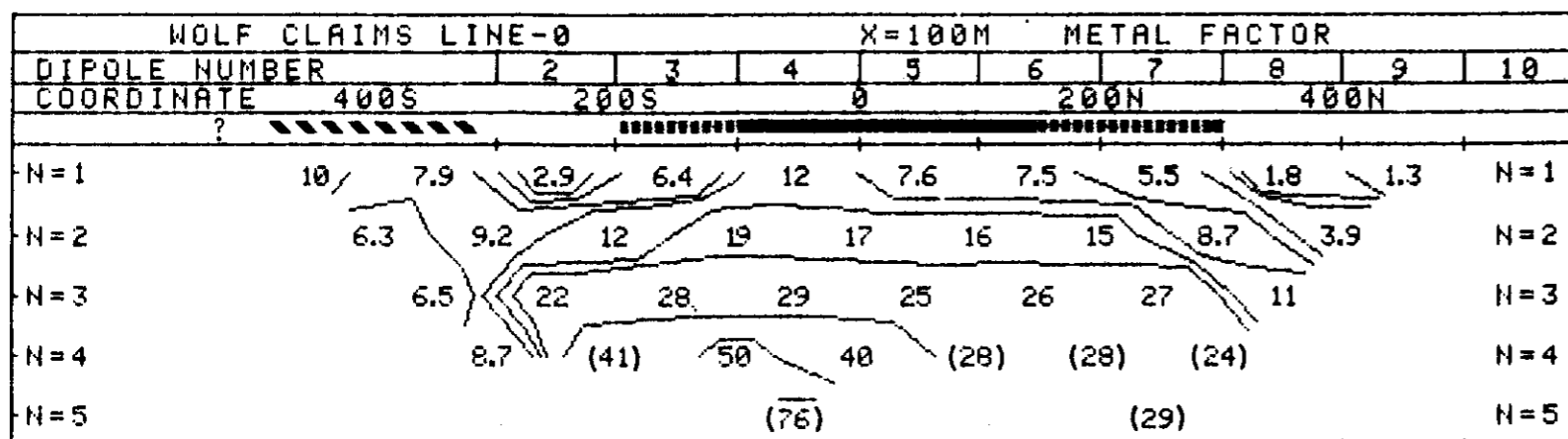
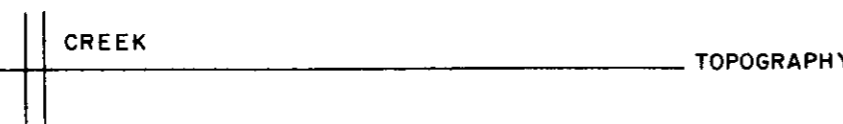
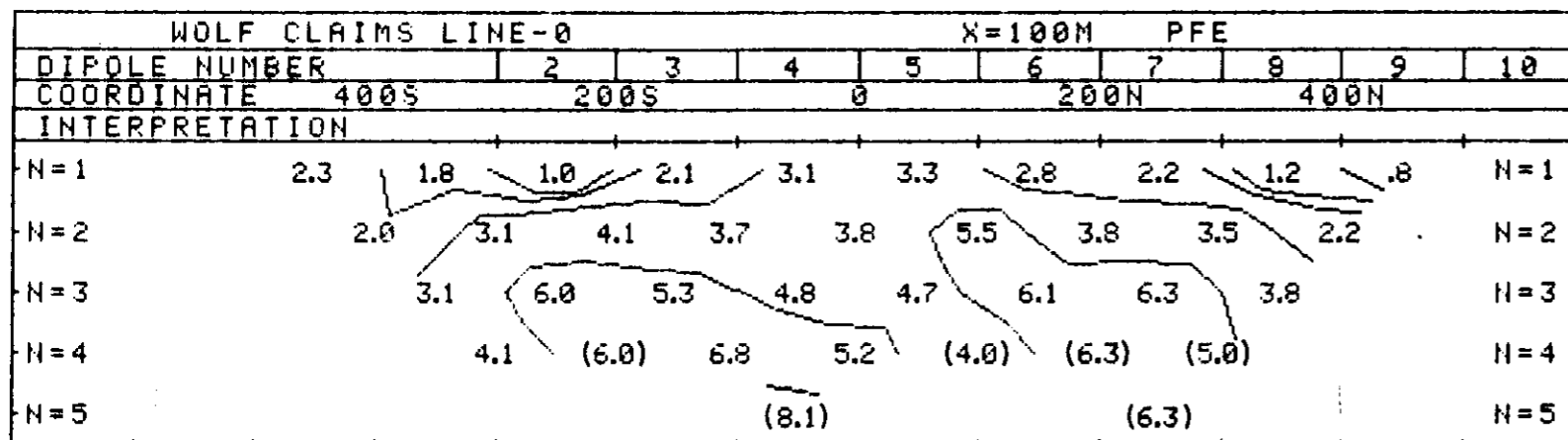
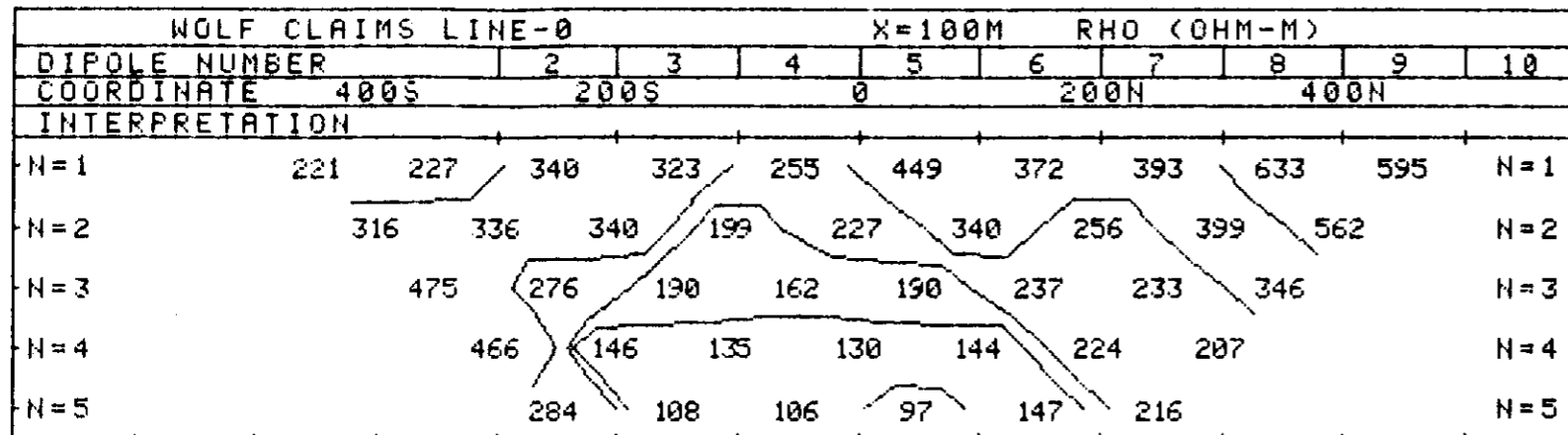
NOTE - CONTOURS AT LOGARITHMIC INTERVALS  
 1, -1.5, -2, -3, -5, -7.5, -10

DATE

Expiry Date: February 25, 1981

## PHOENIX GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY



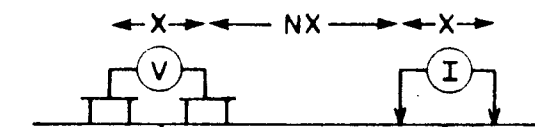
# CORDILLERAN ENGINEERING LTD.

WOLF CLAIM GROUP, WATSON LAKE M.D.

YUKON TERRITORY

LINE NO. - 200E

ELECTRODE CONFIGURATION



PLOTTING POINT X = 100 M.

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE **—————**  
 PROBABLE **.....**  
 POSSIBLE **///////**

FREQUENCIES 0.3 - 5.0 HZ.

DATE SURVEYED JUNE 1980

APPROVED

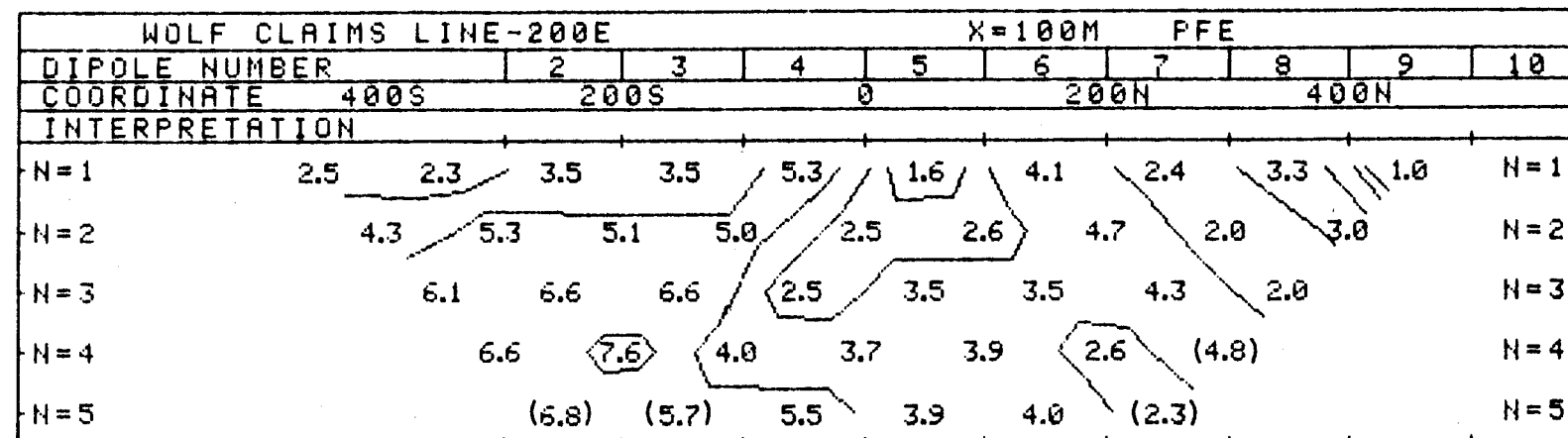
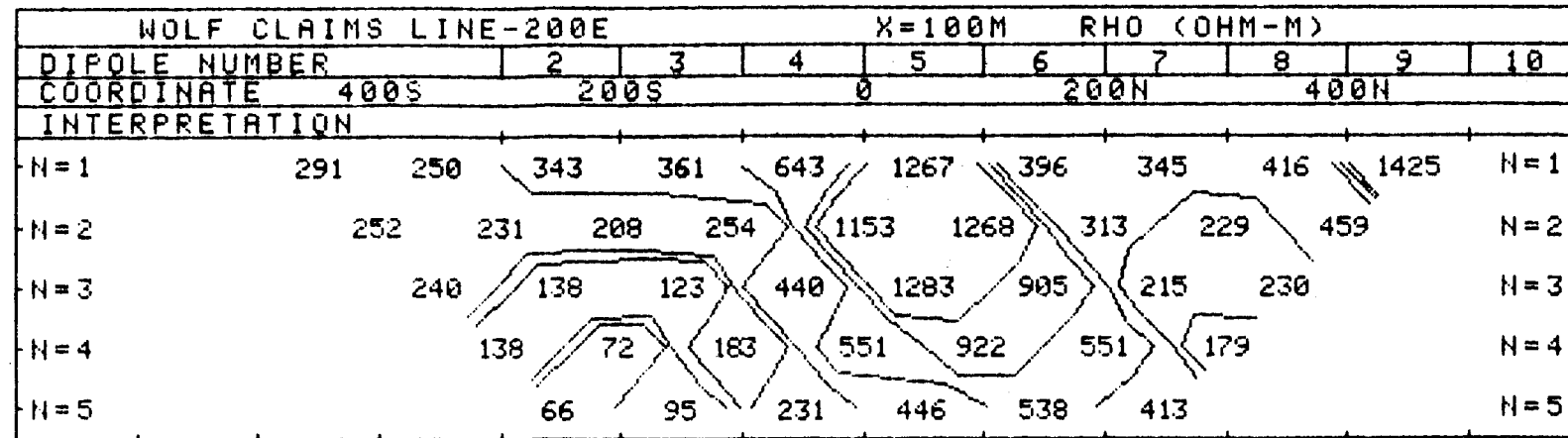
*Philip A. Stallo*  
 PROFESSIONAL ENGINEER  
 BRITISH COLUMBIA  
 P. G. HALL  
 DATE

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

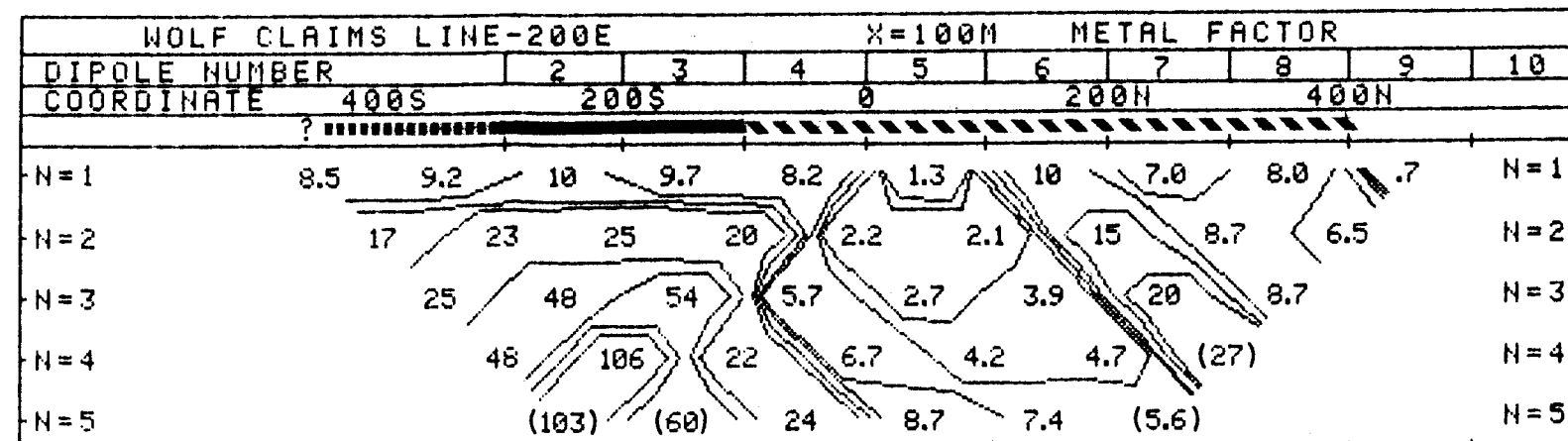
Expiry Date: February 25, 1981

## PHOENIX GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY



CREEK TOPOGRAPHY



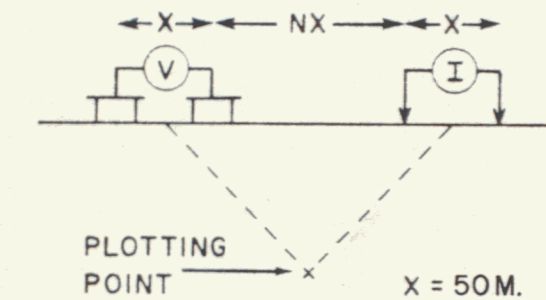
# CORDILLERAN ENGINEERING LTD.

WOLF CLAIM GROUP, WATSON LAKE M.D.

YUKON TERRITORY

LINE NO. - 200E

ELECTRODE CONFIGURATION



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE   
 PROBABLE   
 POSSIBLE

FREQUENCIES 0.3-5.0 HZ.

DATE SURVEYED JUNE 1980

APPROVED

*Philip A. Hall*  
 P. A. Hall  
 BRITISH COLUMBIA ENGINEER

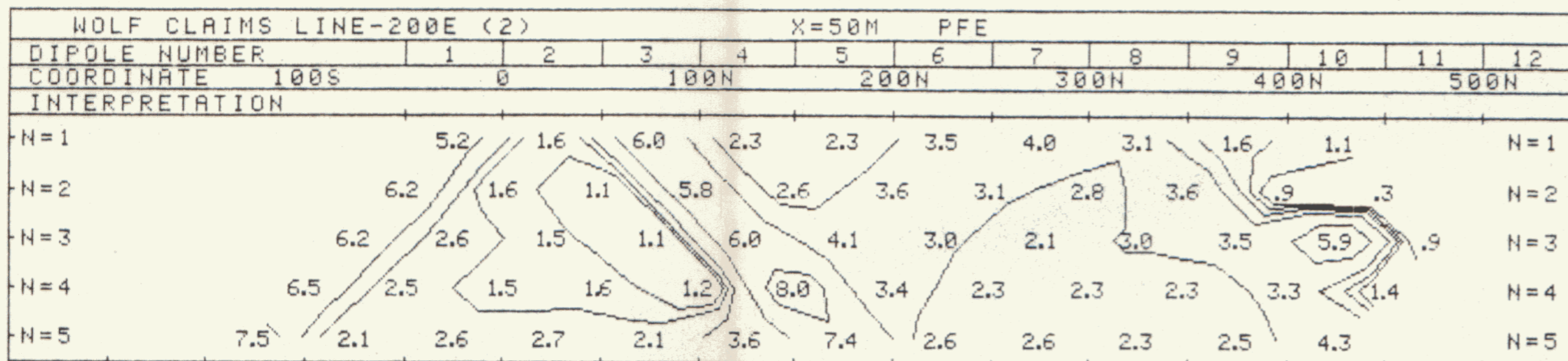
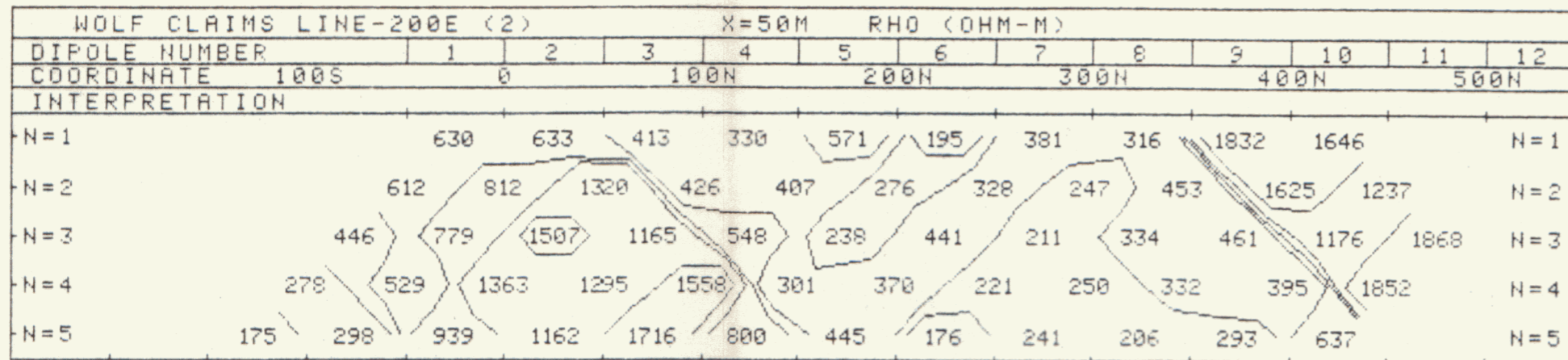
DATE

Expiry Date: February 25, 1981

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

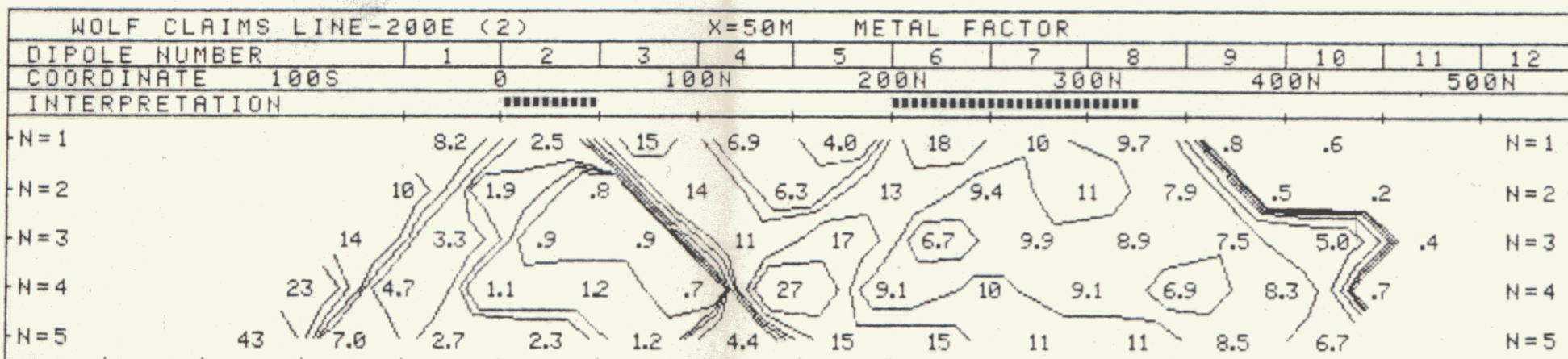
## PHOENIX GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY



CREEK

TOPOGRAPHY



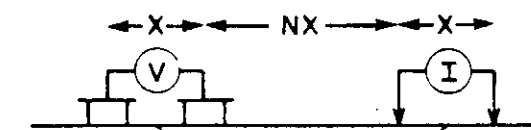
# CORDILLERAN ENGINEERING LTD.

WOLF CLAIM GROUP, WATSON LAKE M.D.

YUKON TERRITORY

LINE NO. - 400E

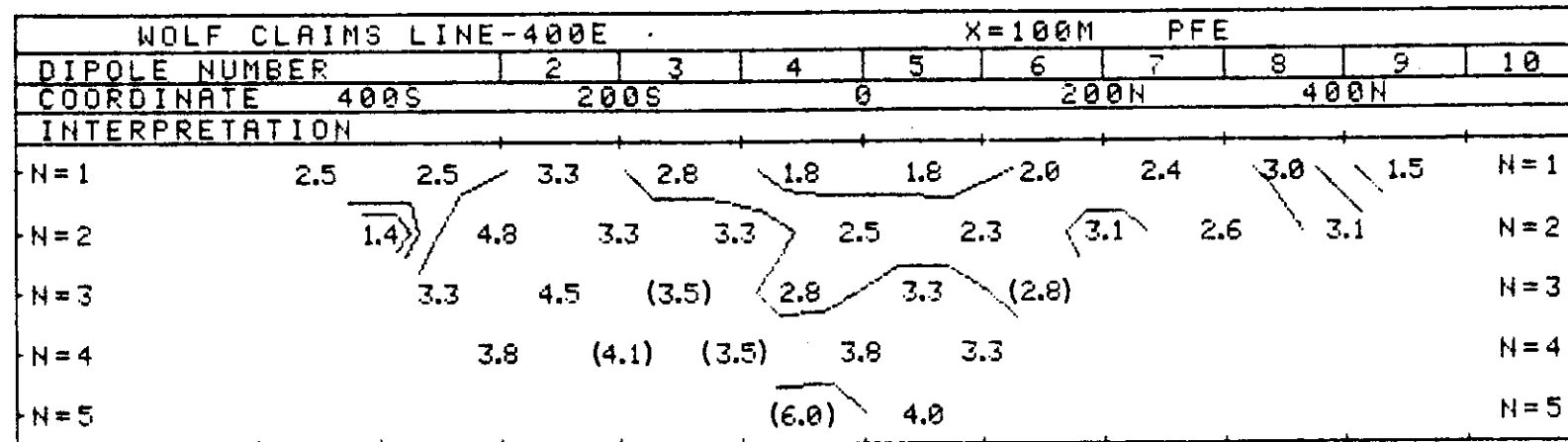
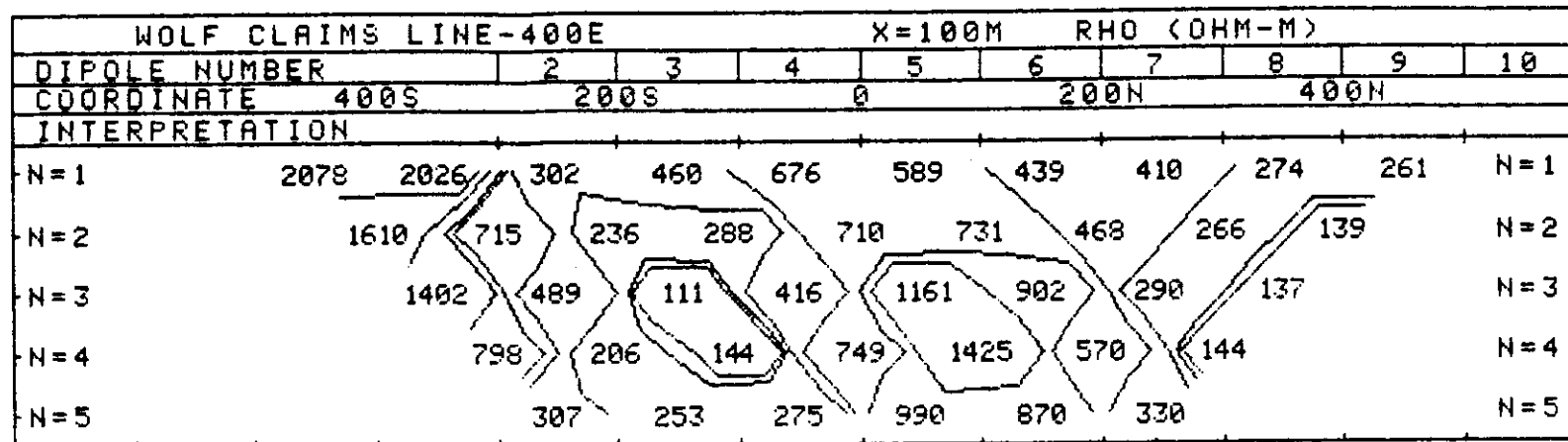
ELECTRODE CONFIGURATION



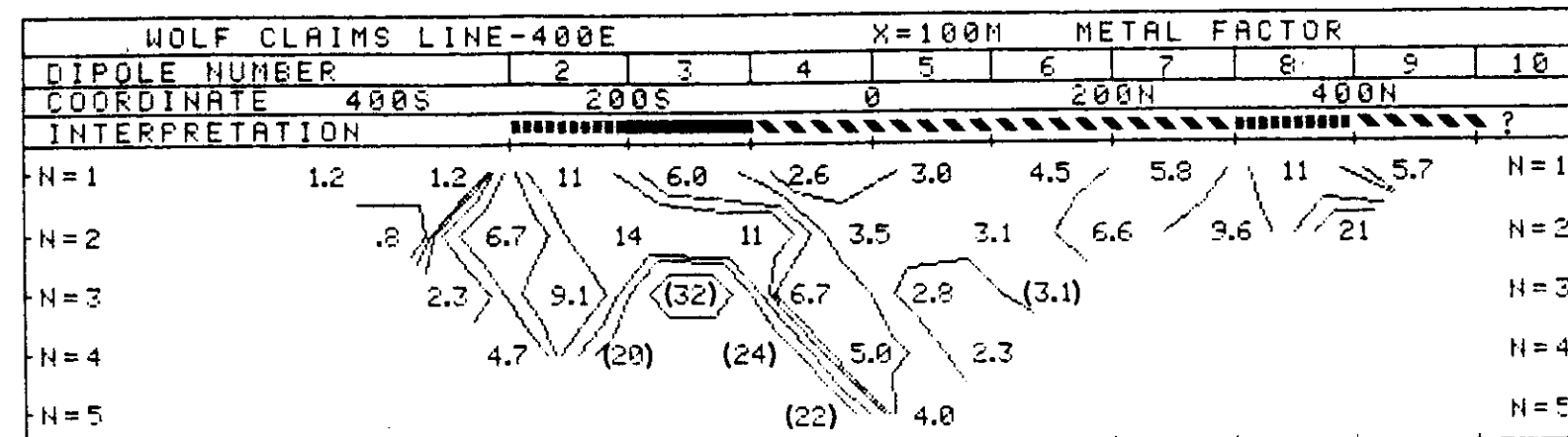
PLOTTING POINT  $\rightarrow$  X = 100 M.

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE **—————**  
 PROBABLE **.....**  
 POSSIBLE **///////**



TOPOGRAPHY

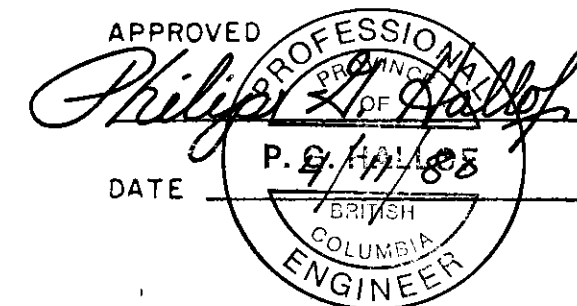


FREQUENCIES 0.3 - 5.0 HZ.

DATE SURVEYED JUNE 1980

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

APPROVED



DATE

Expiry Date: February 25, 1981

## PHOENIX GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY

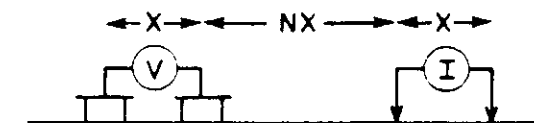
# CORDILLERAN ENGINEERING LTD.

WOLF CLAIM GROUP, WATSON LAKE M.D.

YUKON TERRITORY

LINE NO. - 400E

ELECTRODE CONFIGURATION



PLOTTING POINT X = 50M.

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE   
 PROBABLE   
 POSSIBLE

FREQUENCIES 0.3-5.0 HZ.

DATE SURVEYED JUNE 1980

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

APPROVED   
 P. G. WALL OF   
 BRITISH COLUMBIA   
 ENGINEER   
 DATE 4/11/80

Expiry Date: February 25, 1981

## PHOENIX GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY

WOLF CLAIMS LINE-400E (2)											X=50M		RHO (OHM-M)	
DIPOLE NUMBER	1	2	3	4	5	6	7	8	9	10				
COORDINATE	100N	200N	300N	400N	500N	600N								
N=1		663	413	395	515	335	1321	863	925	461			N=1	
N=2		359	505	296	414	416	572	635	511	809	512		N=2	
N=3		631	401	405	355	407	396	320	384	587	1000		N=3	
N=4		814	673	350	496	345	373	423	210	479	805		N=4	
N=5	943	947	582	452	473	285	183	279	276	616			N=5	

WOLF CLAIMS LINE-400E (2)											X=50M		PFE	
DIPOLE NUMBER	1	2	3	4	5	6	7	8	9	10				
COORDINATE	100N	200N	300N	400N	500N	600N								
N=1		1.6	1.1	2.1	3.1	2.4	1.6	1.2	1.1	1.0			N=1	
N=2		1.6	1.7	2.6	2.6	2.0	3.1	2.0	1.4	1.3	1.5		N=2	
N=3		2.0	1.6	3.6	3.0	1.7	2.1	3.6	2.1	2.0	1.8		N=3	
N=4		2.0	2.0	3.4	3.5	2.0	2.2	2.6	4.8	2.6	1.9		N=4	
N=5	2.1	2.0	3.6	2.6	2.0	2.1	2.3	(3.1)	(4.1)	2.1			N=5	

TOPOGRAPHY

WOLF CLAIMS LINE-400E (2)											X=50M		METAL FACTOR	
DIPOLE NUMBER	1	2	3	4	5	6	7	8	9	10				
COORDINATE	100N	200N	300N	400N	500N	600N								
N=1		2.4	2.7	5.3	6.0	7.2	1.2	1.3	1.1	2.1			N=1	
N=2		4.5	3.4	8.8	6.3	4.8	5.4	3.1	2.7	1.6	2.9		N=2	
N=3		2.5	3.0	8.9	8.5	4.2	5.4	11	5.4	3.4	1.8		N=3	
N=4		2.5	3.0	9.7	7.1	5.8	5.9	6.1	23	5.4	2.3		N=4	
N=5	2.2	2.1	6.2	5.7	4.2	7.4	13	(11)	(15)	3.4			N=5	

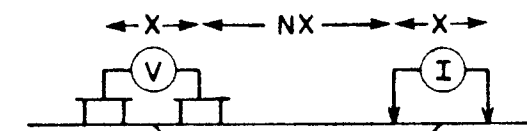
# CORDILLERAN ENGINEERING LTD.

WOLF CLAIM GROUP, WATSON LAKE M.D.

YUKON TERRITORY

LINE NO. - 600E

ELECTRODE CONFIGURATION



PLOTTING POINT X = 100 M.

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE   
 PROBABLE   
 POSSIBLE

FREQUENCIES 0.3-5.0 HZ.

DATE SURVEYED JUNE 1980

APPROVED

*Philip L. Hollof*  
 PROFESSIONAL ENGINEER  
 P. G. / 11 / 80  
 BRITISH COLUMBIA ENGINEER

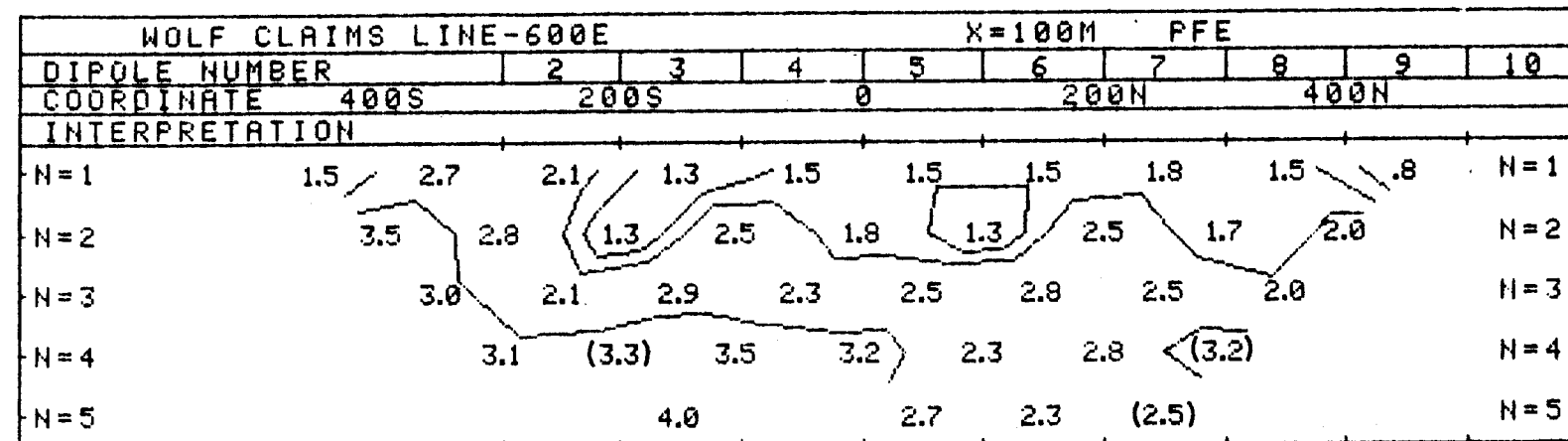
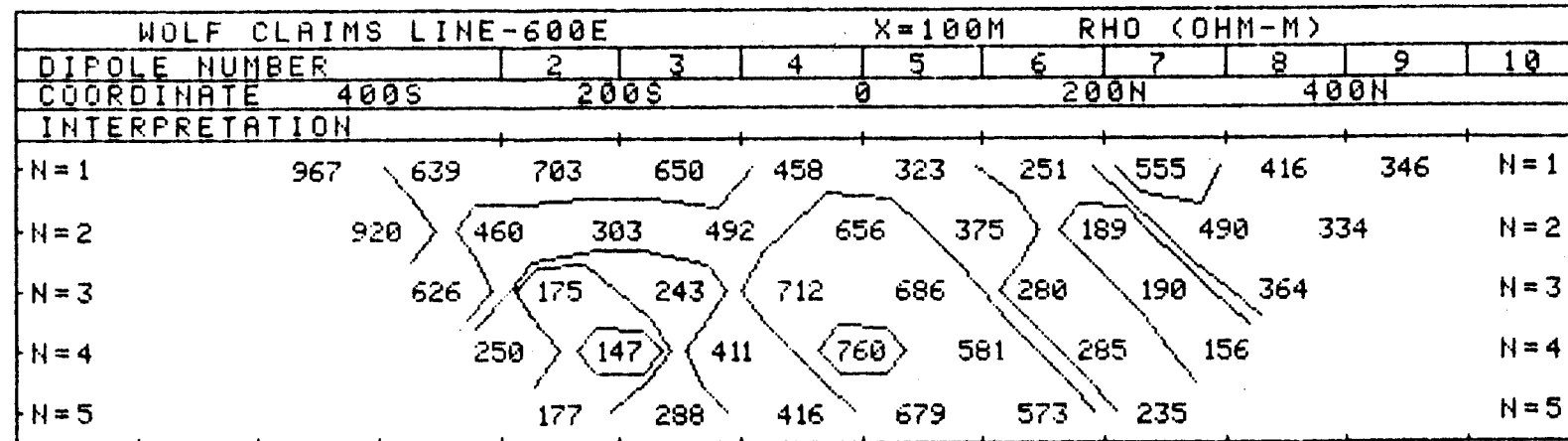
NOTE - CONTOURS AT LOGARITHMIC INTERVALS 1, -1.5, -2, -3, -5, -7.5, -10

DATE

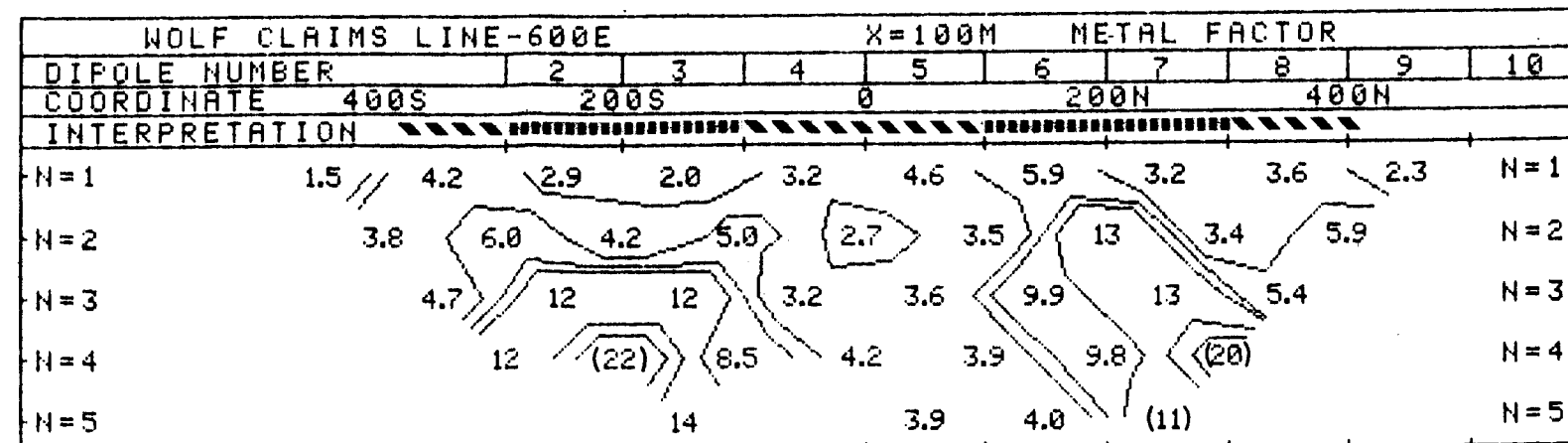
Expiry Date: February 25, 1981

## PHOENIX GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY



TOPOGRAPHY



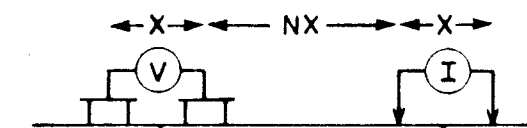
# CORDILLERAN ENGINEERING LTD.

WOLF CLAIM GROUP, WATSON LAKE M.D.

YUKON TERRITORY

LINE NO. - 800E

ELECTRODE CONFIGURATION



PLOTTING POINT X = 100M.

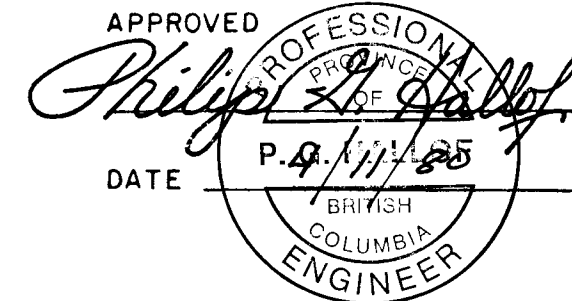
SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE   
 PROBABLE   
 POSSIBLE

FREQUENCIES 0.3-5.0 HZ.

DATE SURVEYED JUNE 1980

APPROVED



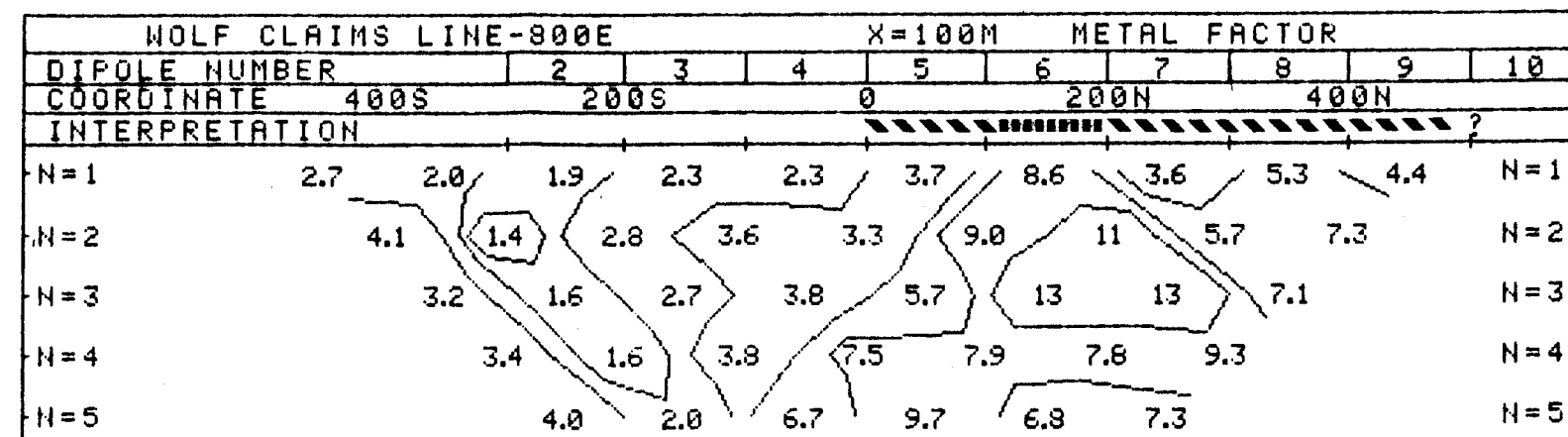
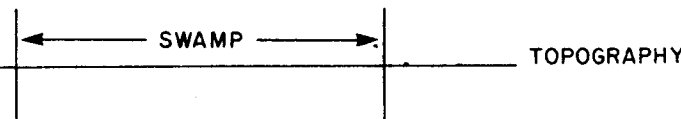
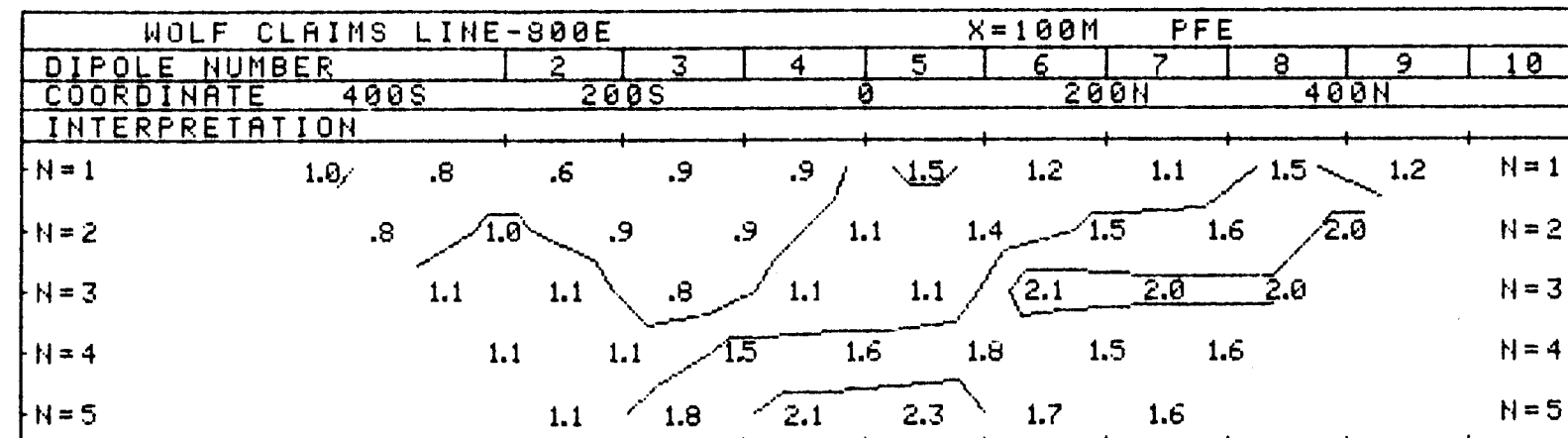
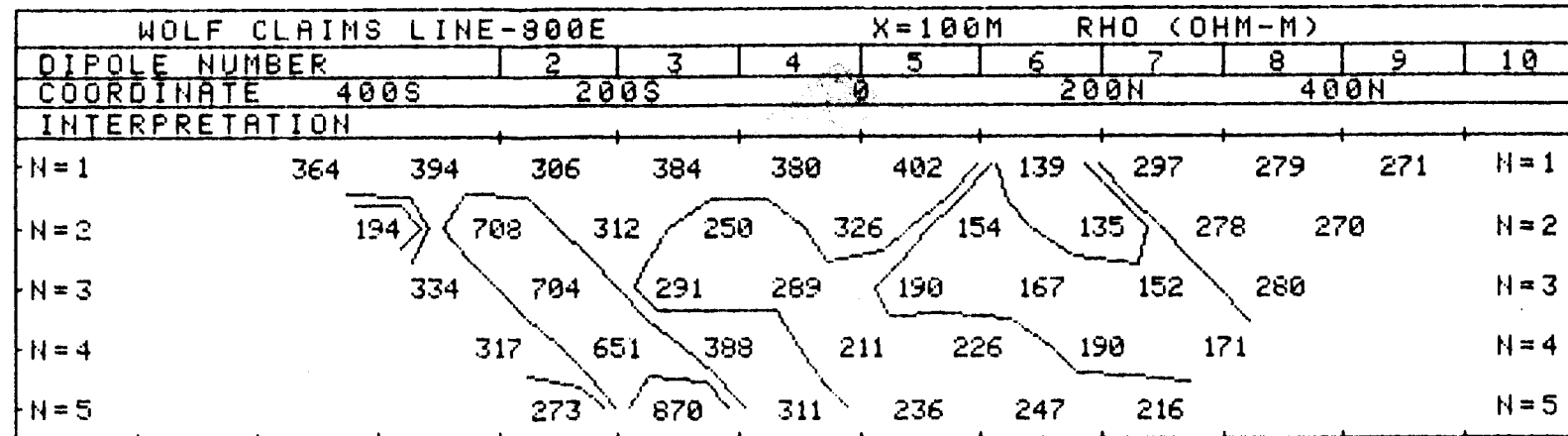
NOTE - CONTOURS AT LOGARITHMIC INTERVALS 1, -1.5, -2, -3, -5, -7.5, -10

DATE

Expiry Date: February 25, 1981

## PHOENIX GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY



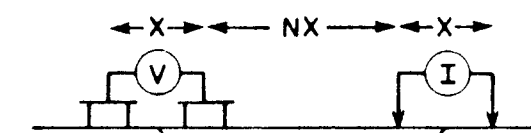
# CORDILLERAN ENGINEERING LTD.

WOLF CLAIM GROUP, WATSON LAKE M.D.

YUKON TERRITORY

LINE NO. - 1000E

ELECTRODE CONFIGURATION



PLOTTING POINT X = 100 M.

SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE   
 PROBABLE   
 POSSIBLE

FREQUENCIES 0.3 - 5.0 HZ.

DATE SURVEYED JUNE 1980

APPROVED

*Philip A. Hall*  
 PROFESSIONAL ENGINEER  
 PROVINCE OF BRITISH COLUMBIA  
 P.G. # 111/85  
 DATE 4/11/85

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

DATE

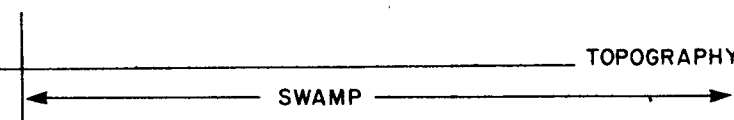
Expiry Date: February 25, 1981

## PHOENIX GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY

WOLF CLAIMS LINE-1000E										X=100M	RHO (OHM-M)
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10		
COORDINATE	400S	200S	0	200N	400N						
INTERPRETATION											
N=1	283	369	348	273	235	245	294	266	225	262	N=1
N=2	295	328	277	226	196	227	218	206	203		N=2
N=3	348	307	231	182	176	190	197	180			N=3
N=4	391	293	190	182	183	205	178				N=4
N=5	401	264	199	213	223	186					N=5

WOLF CLAIMS LINE-1000E										X=100M	PFE
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10		
COORDINATE	400S	200S	0	200N	400N						
INTERPRETATION											
N=1	1.2	.9	.8	.8	1.1	1.2	1.1	1.0	1.3	1.3	N=1
N=2	1.4	.6	.6	.4	.8	1.3	1.4	1.7	1.9		N=2
N=3	1.1	.8	.8	1.2	1.3	1.2	1.7	1.8			N=3
N=4	1.6	1.2	1.3	1.0	1.8	2.3	2.0				N=4
N=5	1.7	1.3	2.3	2.0	2.1	(1.7)					N=5



WOLF CLAIMS LINE-1000E										X=100M	METAL FACTOR
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10		
COORDINATE	400S	200S	0	200N	400N						
INTERPRETATION											
N=1	4.2	2.4	2.2	2.9	4.6	4.8	3.7	3.7	5.7	4.9	N=1
N=2	4.7	1.8	2.1	1.7	4.0	5.7	6.4	8.2	9.3		N=2
N=3	3.1	2.6	3.4	6.5	7.3	6.3	8.5	9.9			N=3
N=4	4.0	4.0	6.8	5.4	9.8	11	11				N=4
N=5	4.2	4.9	12	9.3	9.4	(9.1)					N=5

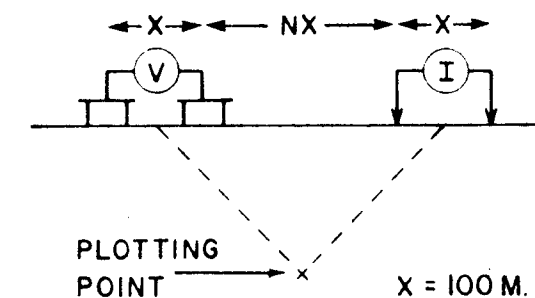
# CORDILLERAN ENGINEERING LTD.

WOLF CLAIM GROUP, WATSON LAKE M.D.

YUKON TERRITORY

LINE NO. - 1200E

ELECTRODE CONFIGURATION



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE **—————**  
 PROBABLE **.....**  
 POSSIBLE **///////**

FREQUENCIES 0.3-5.0 HZ.

DATE SURVEYED JUNE 1980

APPROVED

*Philip A. Hall*  
 PROFESSIONAL ENGINEER  
 BRITISH COLUMBIA  
 P46/V/80  
 DATE

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

Expiry Date: February 25, 1981

## PHOENIX GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY

WOLF CLAIMS LINE-1200E											
X=100M RHO (OHM-M)											
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10		
COORDINATE	400S	200S	0	200N	400N						
INTERPRETATION											
N=1	219	207	255	291	226	253	221	271	304	212	N=1
N=2	203	196	231	239	223	216	258	267	172		N=2
N=3	204	206	218	227	194	243	248	156			N=3
N=4	203	209	218	218	234	240	143				N=4
N=5	204	224	231	295	258	139					N=5

WOLF CLAIMS LINE-1200E											
X=100M PFE											
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10		
COORDINATE	400S	200S	0	200N	400N						
INTERPRETATION											
N=1	.3	.5	.9	.8	.9	.9	.8	1.2	1.1	2.0	N=1
N=2	.4	.6	.8	1.1	1.0	1.2	1.2	1.4	2.4		N=2
N=3	.6	.7	1.1	1.2	1.2	1.2	1.6	2.7			N=3
N=4	.7	1.0	1.3	1.3	1.9	1.7	3.6				N=4
N=5	1.1	1.4	1.8	2.1	(1.4)	1.3					N=5

TOPOGRAPHY

WOLF CLAIMS LINE-1200E											
X=100M METAL FACTOR											
DIPOLE NUMBER	2	3	4	5	6	7	8	9	10		
COORDINATE	400S	200S	0	200N	400N						
INTERPRETATION											
N=1	1.3	2.4	3.5	2.7	3.9	3.5	3.6	4.4	3.6	9.4	N=1
N=2	1.9	3.0	3.4	4.5	4.4	5.5	4.6	5.2	14		N=2
N=3	2.9	3.3	5.0	5.2	6.1	4.9	6.4	17			N=3
N=4	3.4	4.7	5.9	5.9	8.0	7.0	2.5				N=4
N=5	5.4	6.2	7.7	7.1	(5.4)	9.3					N=5

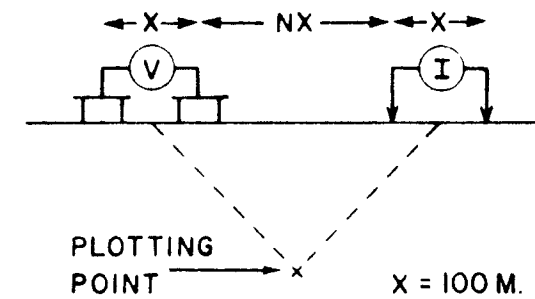
# CORDILLERAN ENGINEERING LTD.

WOLF CLAIM GROUP, WATSON LAKE M.D.

YUKON TERRITORY

LINE NO. - 1400E

ELECTRODE CONFIGURATION



SURFACE PROJECTION OF ANOMALOUS ZONE

DEFINITE **—————**  
 PROBABLE **.....**  
 POSSIBLE **///////**

WOLF CLAIMS LINE-1400E										X=100M		RHO (OHM-M)	
DIPOLE NUMBER	2	3	4	5	6	7	8	9					
COORDINATE	300S	100S	100N	300N	500N								
N=1	255	279	277	209	271	234	264	384	166	N=1			
N=2	288	241	256	187	187	241	230	388	196	N=2			
N=3	290	270	215	217	188	223	297	183		N=3			
N=4	321	235	278	243	184	285	138			N=4			
N=5	277	306	310	242	267	135				N=5			

WOLF CLAIMS LINE-1400E										X=100M		PFE	
DIPOLE NUMBER	2	3	4	5	6	7	8	9					
COORDINATE	300S	100S	100N	300N	500N								
N=1	.8	1.0	1.0	.9	1.0	.9	1.4	1.1	2.4	N=1			
N=2	1.5	1.7	1.3	1.2	1.1	1.3	1.8	1.4	2.9	N=2			
N=3	1.9	1.9	1.8	1.5	1.4	1.9	1.6	3.6		N=3			
N=4	1.3	2.4	2.3	1.8	1.8	1.8	3.1			N=4			
N=5	2.1	2.6	2.6	1.1	2.1					N=5			

SWAMP  
LAKE

TOPOGRAPHY

WOLF CLAIMS LINE-1400E										X=100M		METAL FACTOR	
DIPOLE NUMBER	2	3	4	5	6	7	8	9					
COORDINATE	300S	100S	100N	300N	500N								
N=1	3.1	3.5	3.6	4.3	3.6	3.8	5.2	2.8	14	N=1			
N=2	5.2	7.0	5.0	6.4	5.8	5.3	7.8	3.6	15	N=2			
N=3	6.5	6.6	8.3	6.9	7.4	8.0	5.3	20		N=3			
N=4	4.0	10	8.2	7.4	9.7	6.3	22			N=4			
N=5	7.5	8.4	8.3	4.5	7.8					N=5			

FREQUENCIES 0.3-5.0 HZ.

DATE SURVEYED JUNE 1980

APPROVED

*Philip L. Hall*  
 P. C. HALL  
 4/11/80  
 BRITISH COLUMBIA ENGINEER

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

DATE

Expiry Date: February 25, 1981

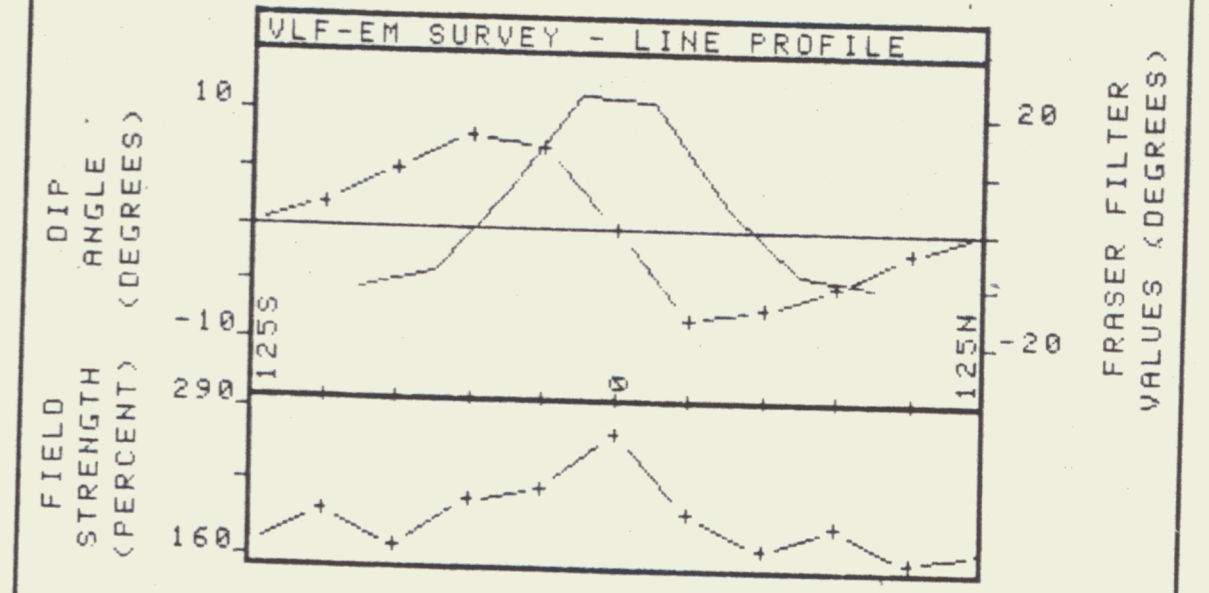
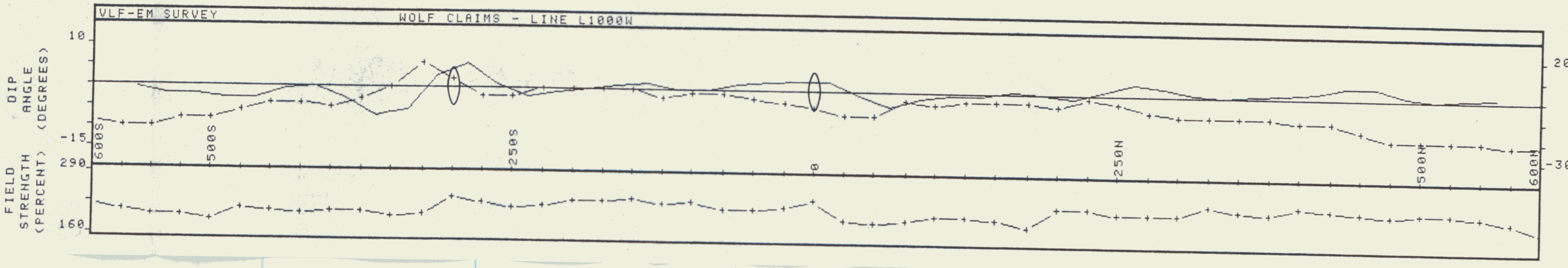
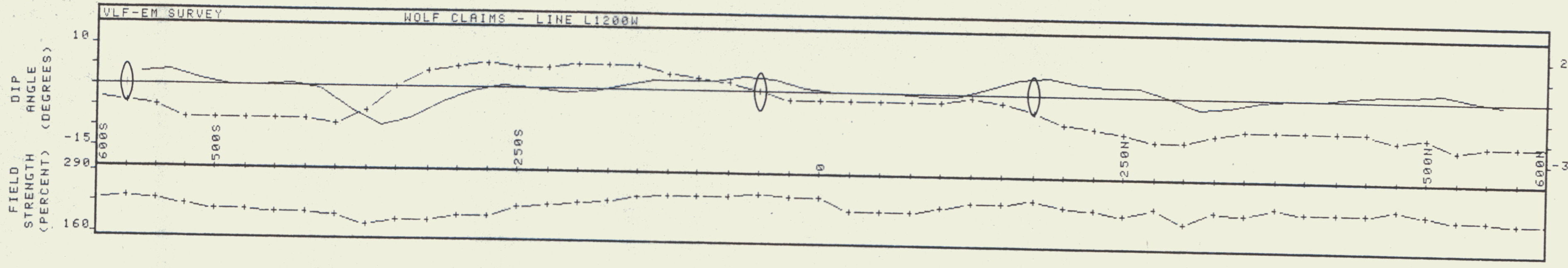
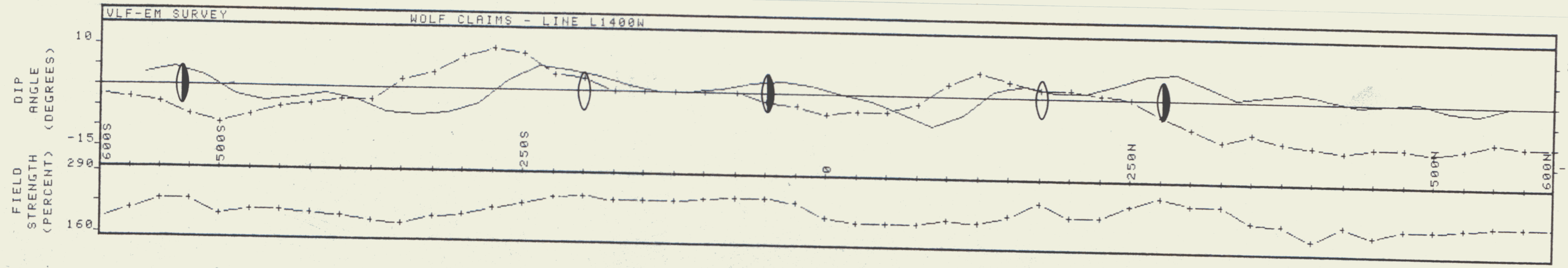
## PHOENIX GEOPHYSICS LIMITED

INDUCED POLARIZATION AND RESISTIVITY SURVEY

**CORDILLERAN ENGINEERING LTD.**

WOLF CLAIM GROUP, WATSON LAKE M.D.  
YUKON TERRITORY

LINE NO. - 1400W  
LINE NO. - 1200W  
LINE NO. - 1000W



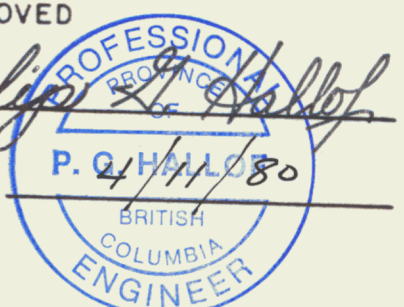
CONDUCTOR SYMBOLS

- DEFINITE
- PROBABLE
- POSSIBLE

DATE SURVEYED JUNE 1980

APPROVED

*Philip A. Halls*



DATE

**PHOENIX GEOPHYSICS LIMITED**

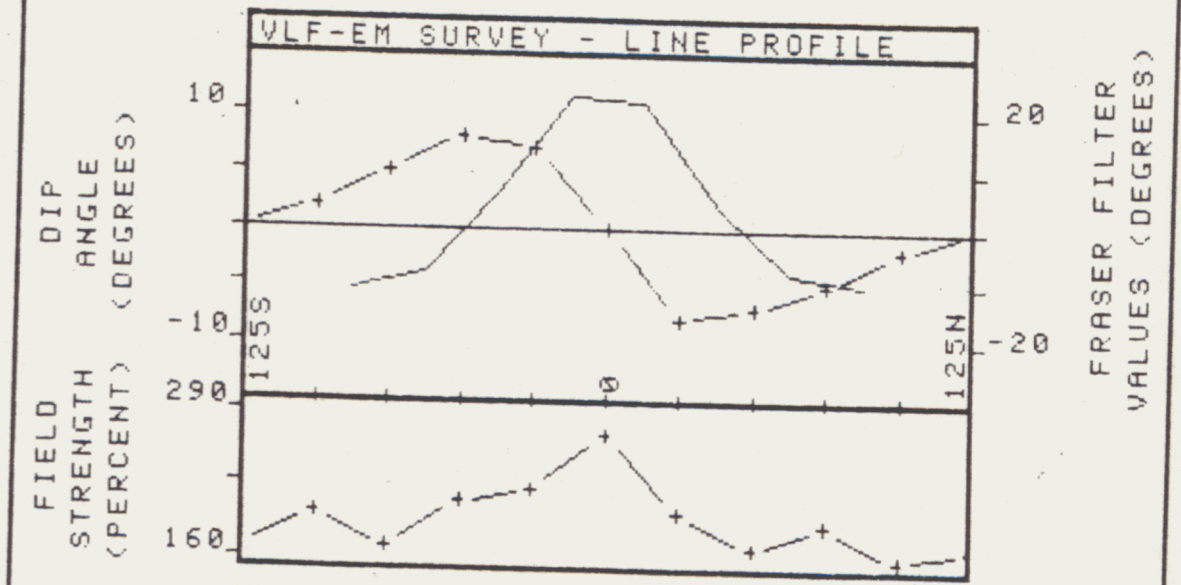
Expiry Date: February 25, 1981

VLF - ELECTROMAGNETIC SURVEY

# CORDILLERAN ENGINEERING LTD.

WOLF CLAIM GROUP, WATSON LAKE M.D.  
YUKON TERRITORY

LINE NO. - 800W  
LINE NO. - 600W  
LINE NO. - 400W



CONDUCTOR SYMBOLS

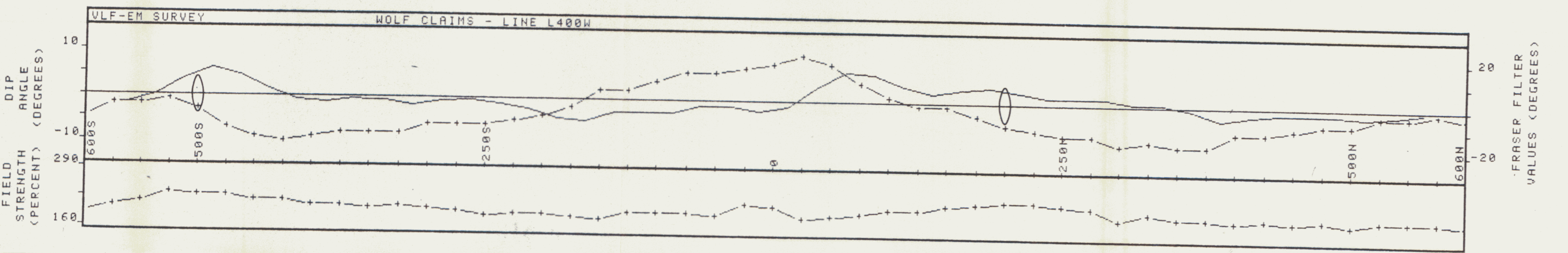
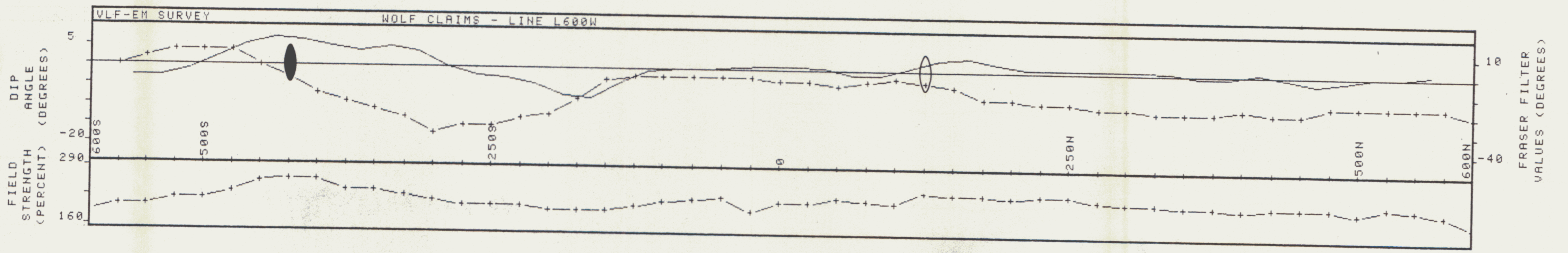
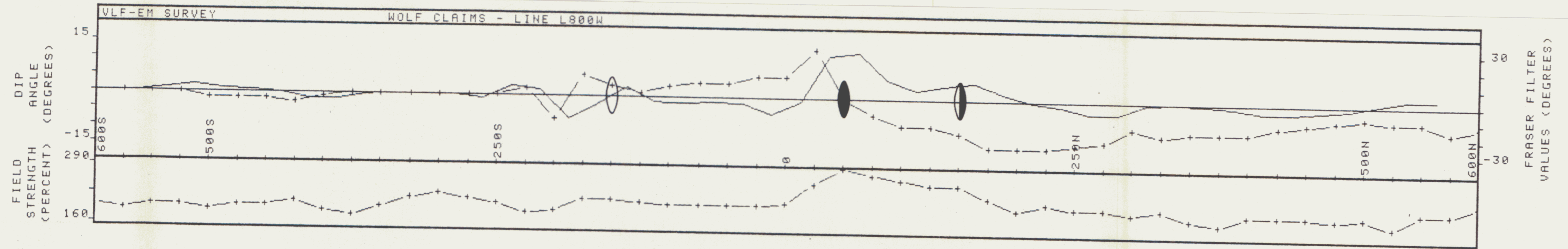
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P. G. HALLOF  
DATE 4/11/80  
PROFESSIONAL ENGINEER  
COLUMBIA

Expiry Date: February 25, 1981

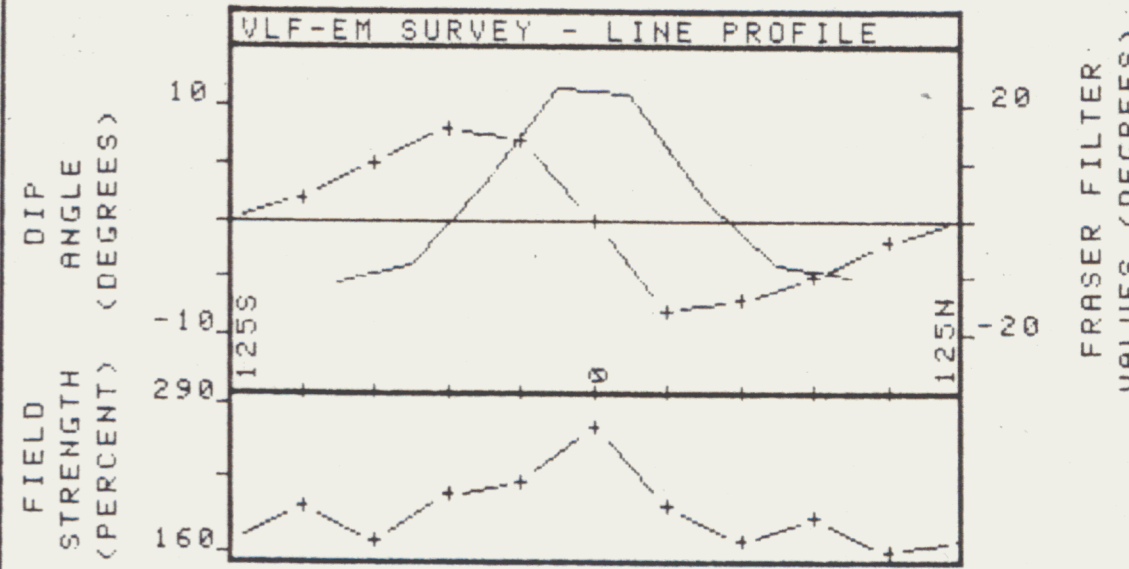
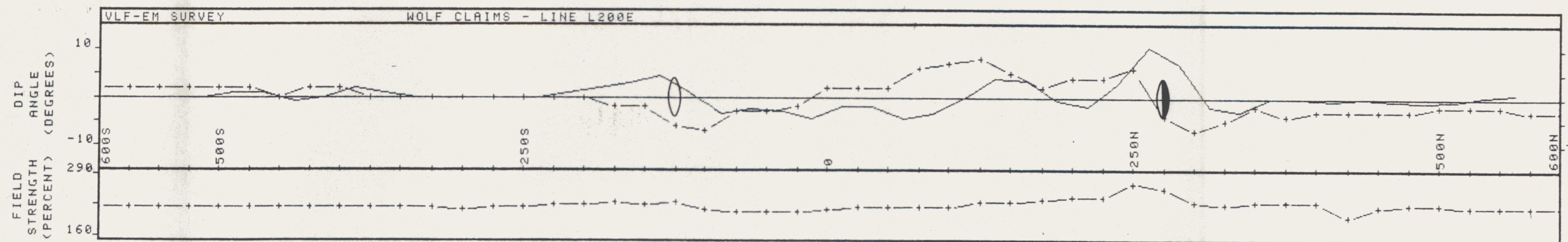
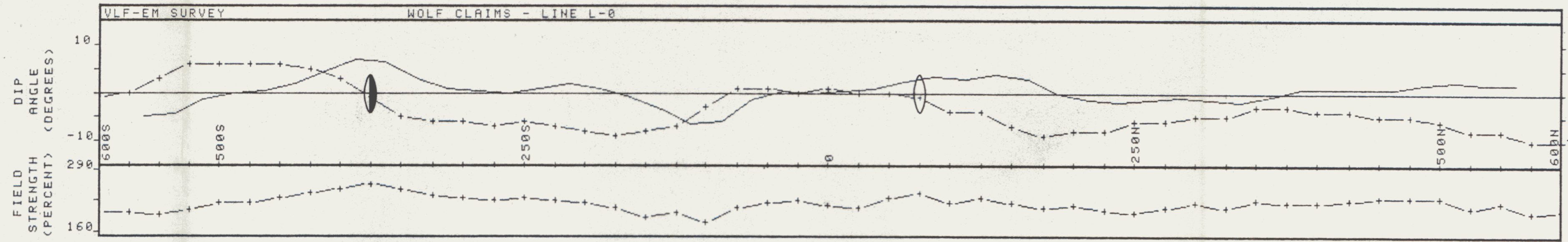
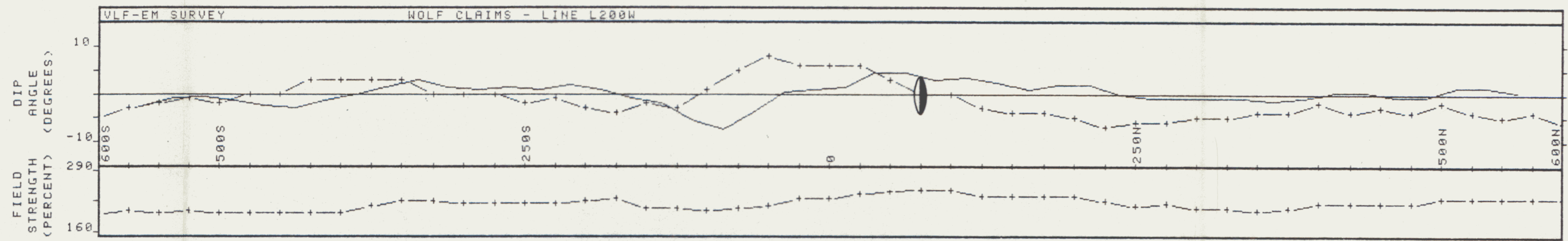
**PHOENIX GEOPHYSICS LIMITED**  
VLF-ELECTROMAGNETIC SURVEY



**CORDILLERAN ENGINEERING LTD.**

WOLF CLAIM GROUP, WATSON LAKE M.D.  
YUKON TERRITORY

LINE NO. - 200W  
LINE NO. - 0  
LINE NO. - 200E



CONDUCTOR SYMBOLS

- DEFINITE
- PROBABLE
- POSSIBLE

DATE SURVEYED JUNE 1980

APPROVED

*Philip G. Hallor*  
**P. G. HALLOF**  
DATE 4/11/80  
PROFESSIONAL ENGINEER  
BRITISH COLUMBIA

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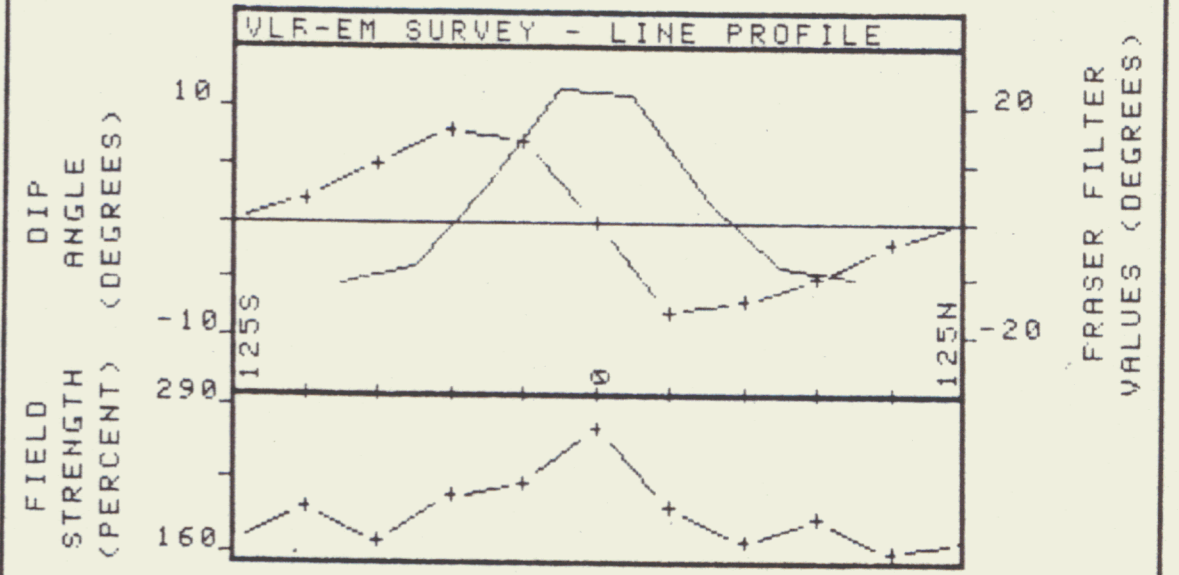
**PHOENIX GEOPHYSICS LIMITED**

VLF - ELECTROMAGNETIC SURVEY

**CORDILLERAN ENGINEERING LTD.**

WOLF CLAIM GROUP, WATSON LAKE M.D.  
YUKON TERRITORY

LINE NO. - 800E  
LINE NO. - 600E  
LINE NO. - 400E



CONDUCTOR SYMBOLS

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- POSSIBLE

DATE SURVEYED JUNE 1980

APPROVED

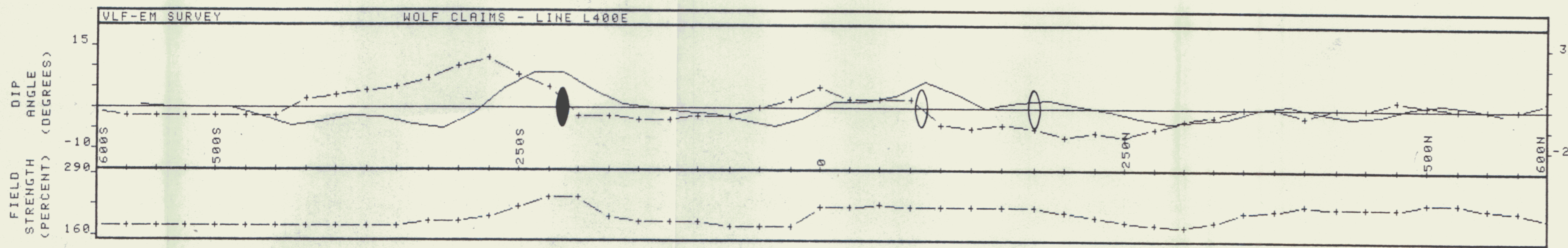
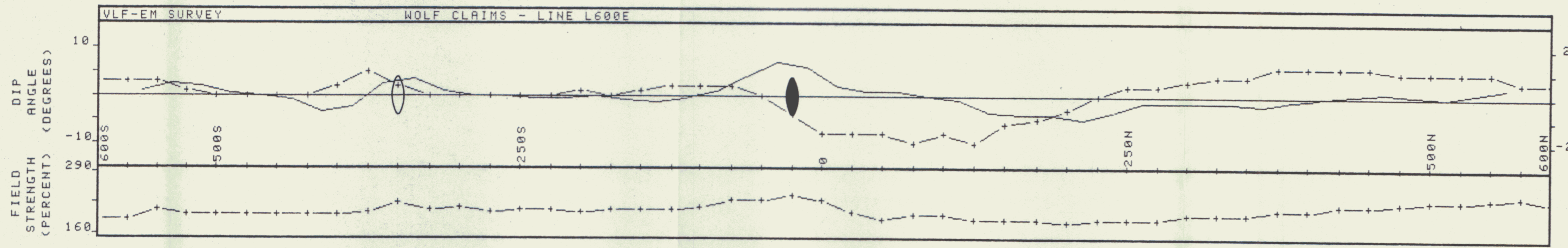
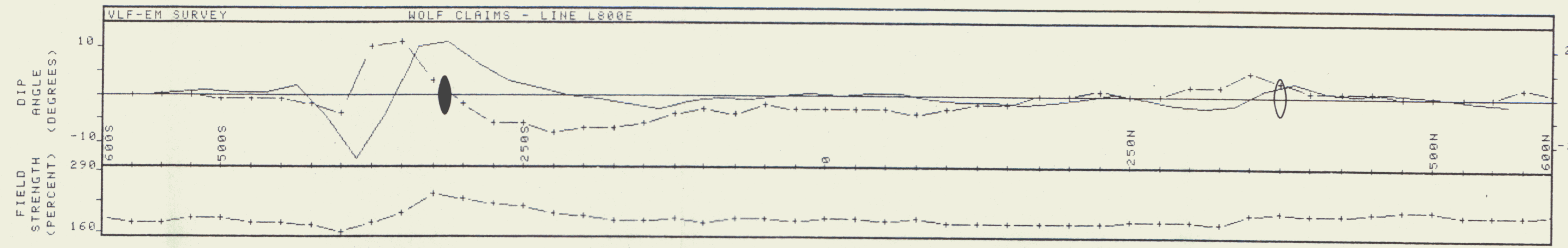
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PROFESSIONAL ENGINEER  
COLUMBIA

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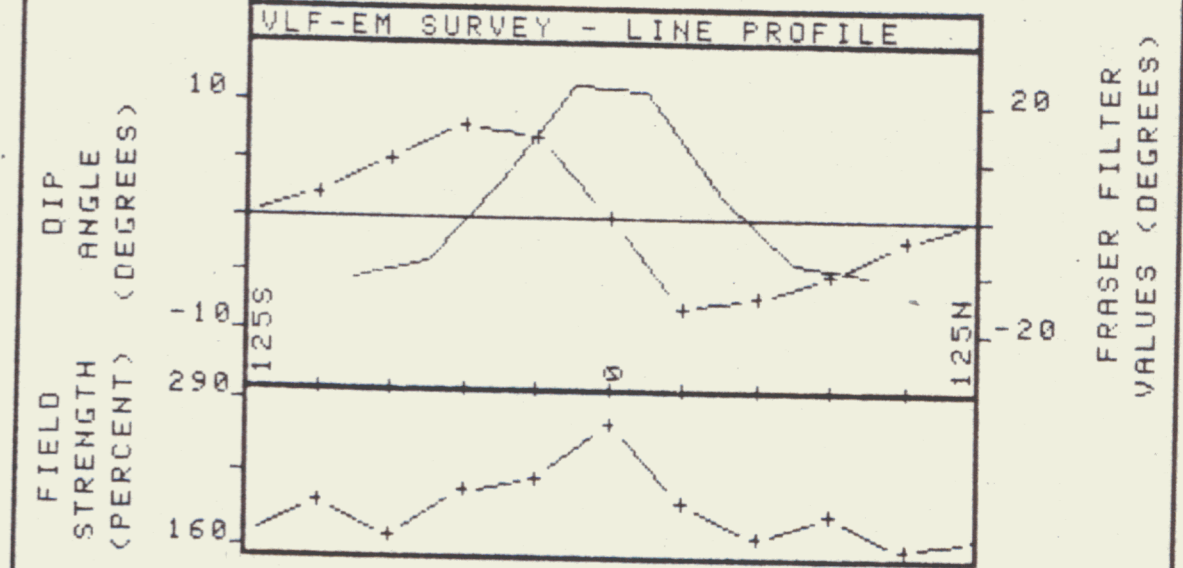
VLF - ELECTROMAGNETIC SURVEY



**CORDILLERAN ENGINEERING LTD.**

WOLF CLAIM GROUP, WATSON LAKE M.D.  
YUKON TERRITORY

LINE NO. - 1400E  
LINE NO. - 1200E  
LINE NO. - 1000E



CONDUCTOR SYMBOLS      DATE SURVEYED JUNE 1980

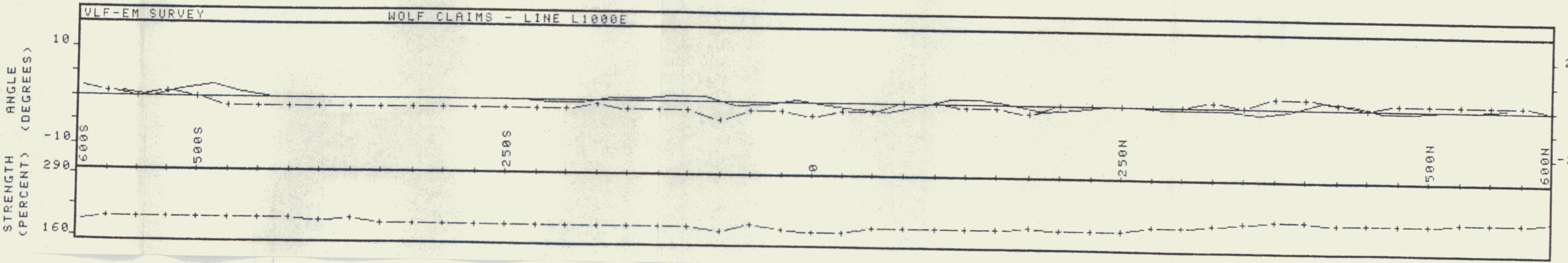
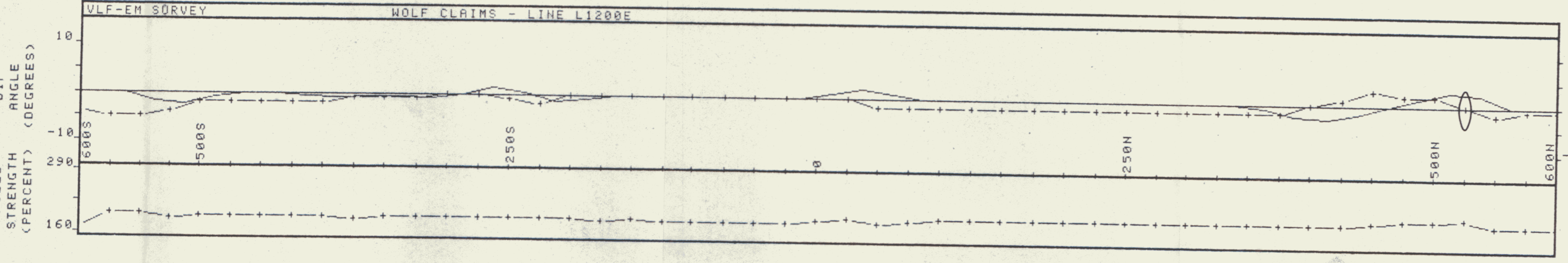
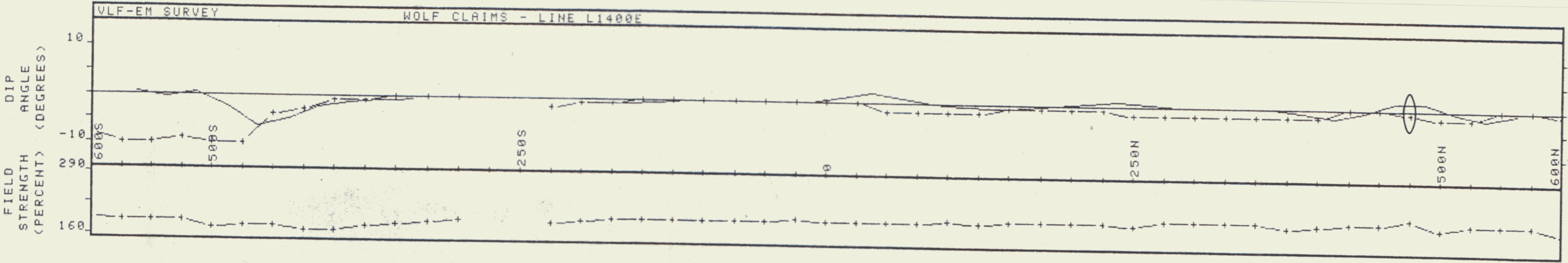
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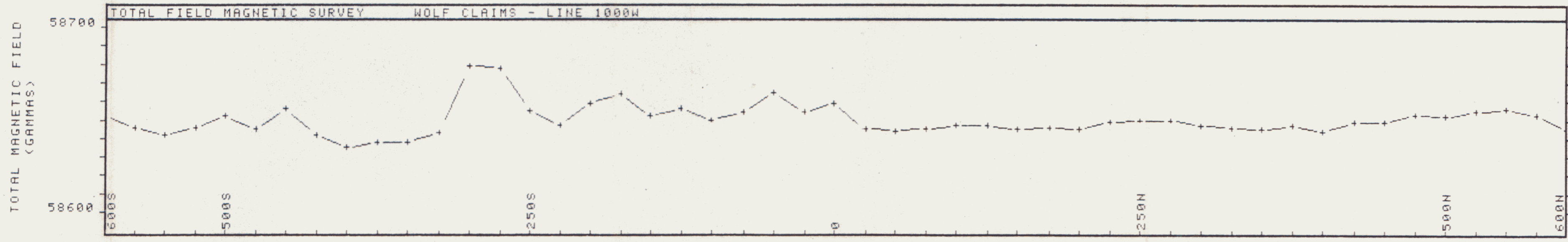
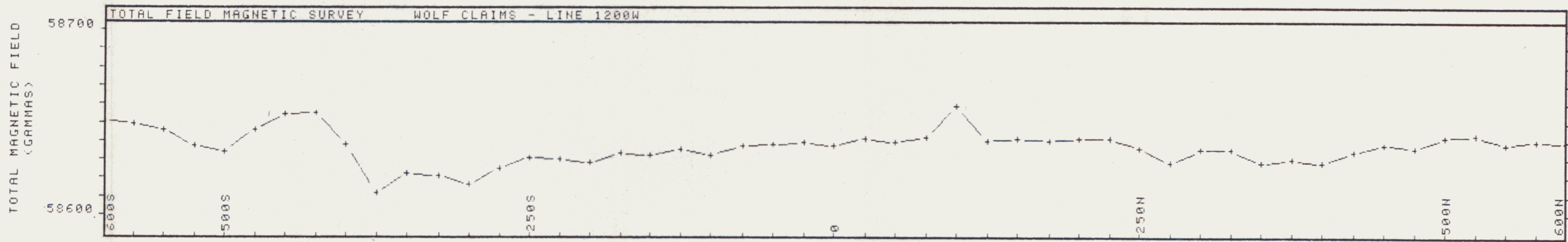
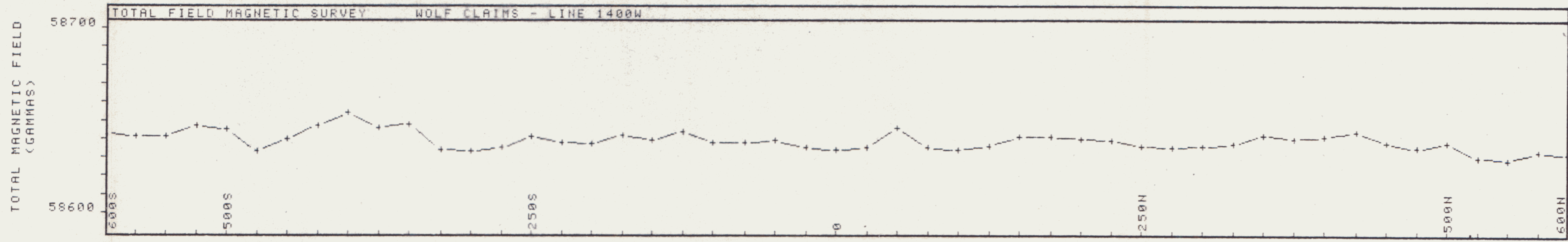
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P. G. HALLOE  
DATE 7/11/80  
PROFESSIONAL ENGINEER  
COLUMBIA

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**PHOENIX GEOPHYSICS LIMITED**

VLF - ELECTROMAGNETIC SURVEY



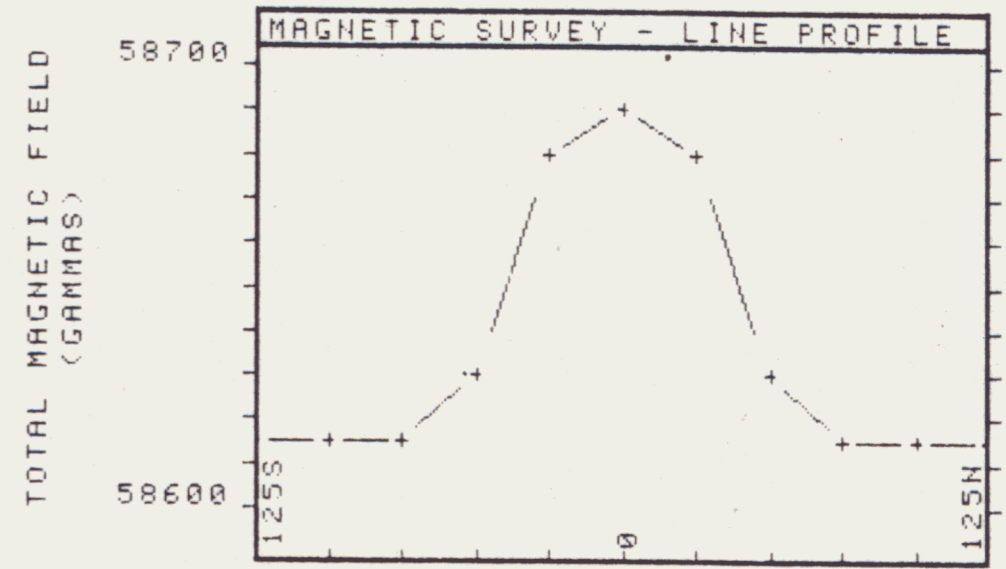


DWG. NO. - M. - 5217-1

**CORDILLERAN ENGINEERING LTD.**

WOLF CLAIM GROUP, WATSON LAKE M.D.  
YUKON TERRITORY

LINE NO. - 1400W  
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LINE NO. - 1000W



CONDUCTOR SYMBOLS

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*Philip A. Hall*  
P. G. HALL  
DATE 4/11/80  
PROFESSIONAL ENGINEER  
BRITISH COLUMBIA

Expiry Date: February 25, 1981

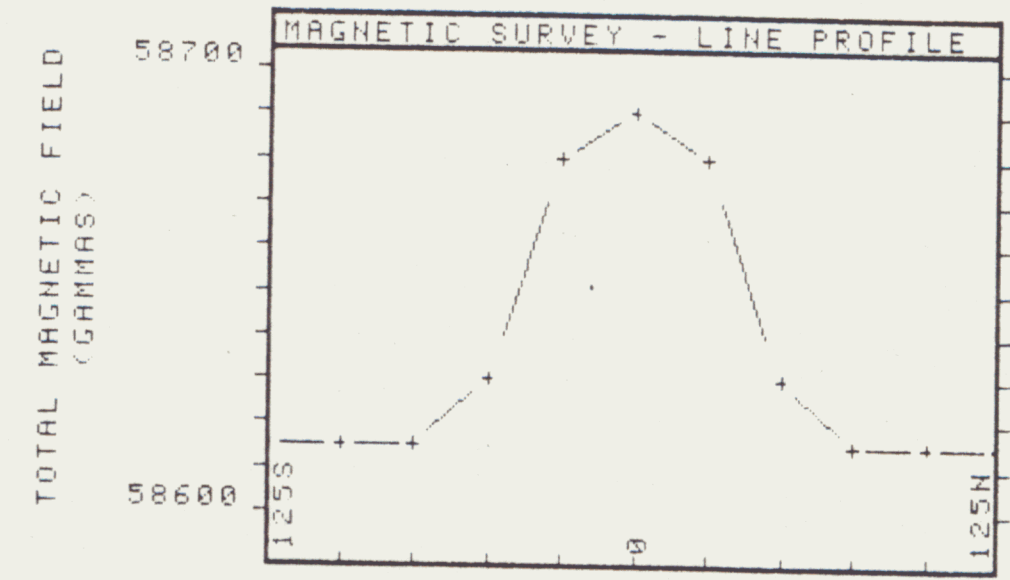
**PHOENIX GEOPHYSICS LIMITED**

TOTAL MAGNETIC FIELD SURVEY

**CORDILLERAN ENGINEERING LTD**

WOLF CLAIM GROUP, WATSON LAKE M.D.  
YUKON TERRITORY

LINE NO. - 800W  
LINE NO. - 600W  
LINE NO. - 400W



CONDUCTOR SYMBOLS      DATE SURVEYED JUNE 1980

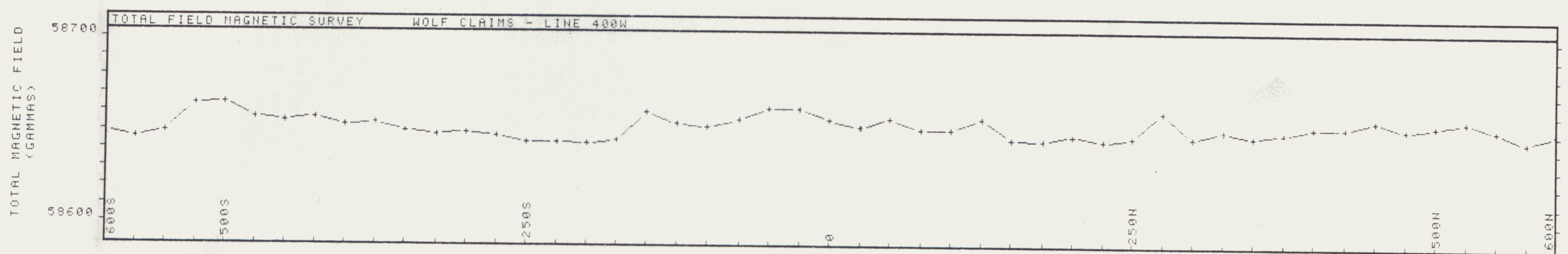
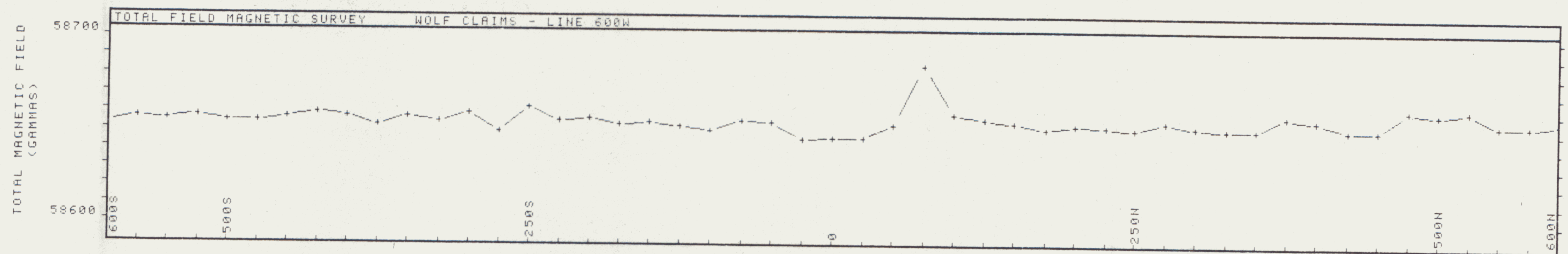
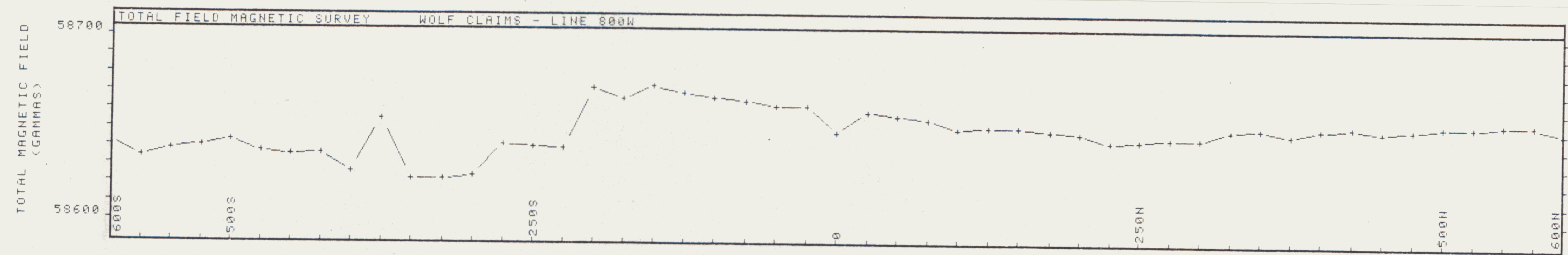
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APPROVED  
*Philip A. Hall*  
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BRITISH COLUMBIA ENGINEER

Expiry Date: February 25, 1981

**PHOENIX GEOPHYSICS LIMITED**

TOTAL MAGNETIC FIELD SURVEY



**CORDILLERAN ENGINEERING LTD.**

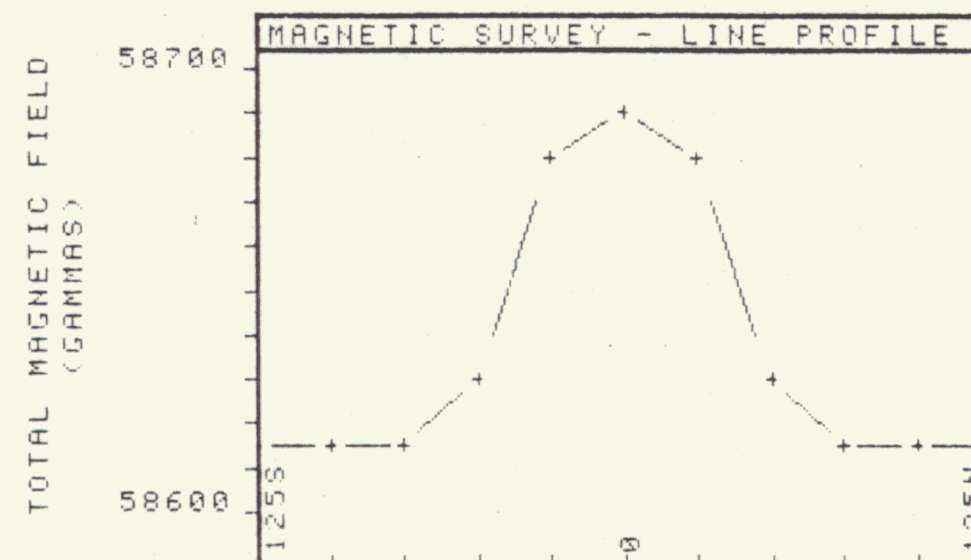
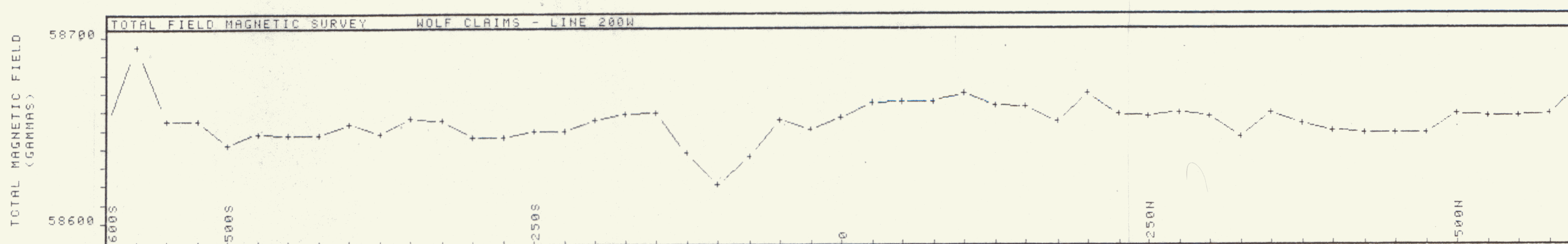
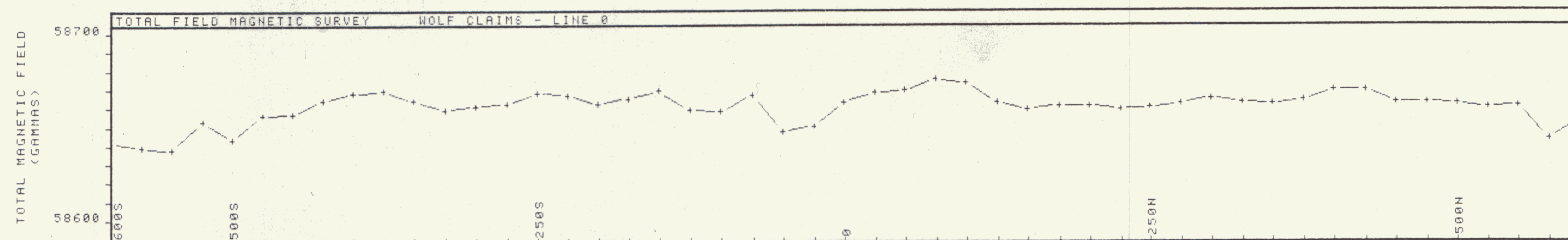
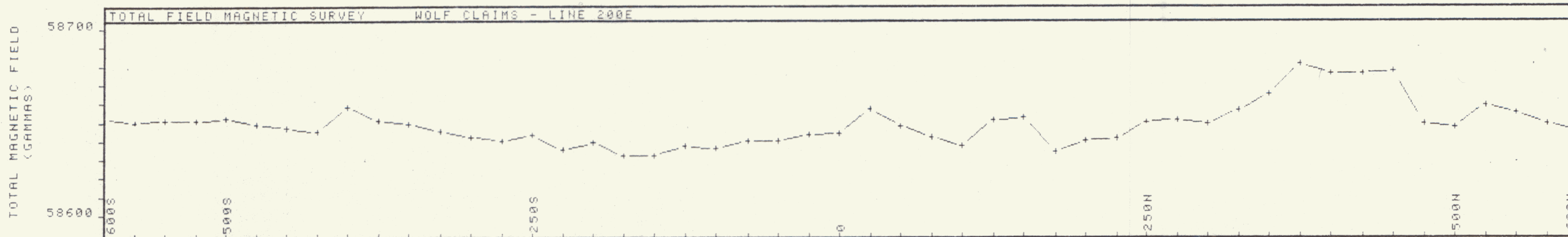
WOLF CLAIM GROUP, WATSON LAKE M.D.

YUKON TERRITORY

LINE NO. - 200E

LINE NO. - 0

LINE NO. - 200W



CONDUCTOR SYMBOLS

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*Philip St. Hall*  
 P. G. HALLOP  
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 OF THE PROVINCE OF BRITISH COLUMBIA

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TOTAL MAGNETIC FIELD SURVEY

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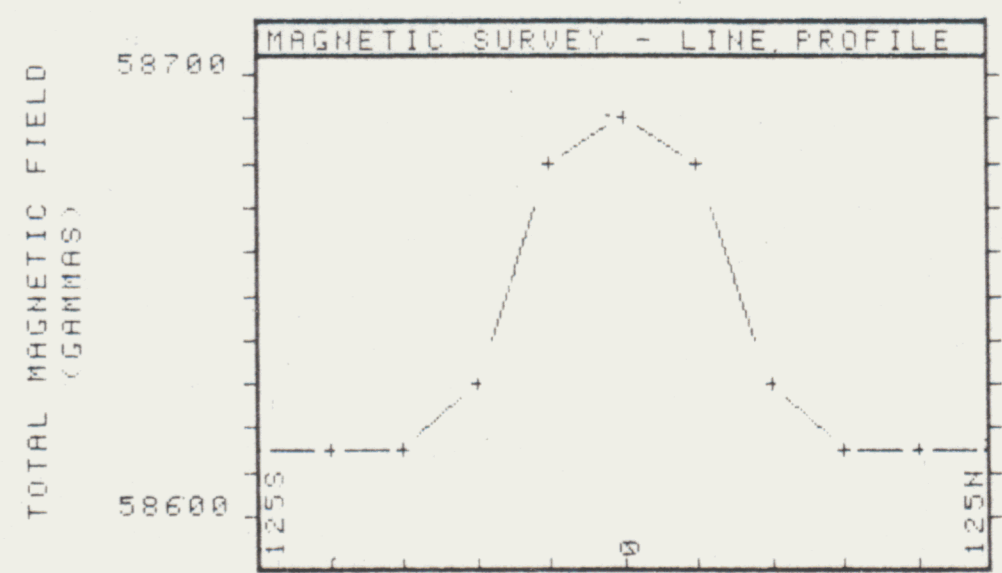
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TOTAL MAGNETIC FIELD SURVEY

