

PETER E. WALCOTT & ASSOC. LTD.

LOG NO: 28-01	RD.
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FILE NO:	

PAID

JAN 25 1991
GOVERNMENT AGENT
QUESNEL

TRANS. # _____

A GEOPHYSICAL REPORT

ON

AN INDUCED POLARIZATION SURVEY

McLeese Lake Area, British Columbia
52° 25' N, 122° 11' W
N.T.S. 93B/8

Claims surveyed: Guy 1

Survey Dates: Oct.23rd - Nov.4th, 1990

Owner: CUISSON LAKE MINES

Operator: GIBRALTAR MINES LIMITED

BY

PETER E. WALCOTT & ASSOCIATES LIMITED

Vancouver, British Columbia

DECEMBER 1990

20,867

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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ACCOMPANYING MAPS - Scale 1" = 400 feet

MAP POCKET

CONTOURS OF APPARENT FREQ. EFFECT	a = 200 ft n=1	W-483-1
" " " " "	a = 200 ft n=2	W-483-2
" " " " "	10 pt. average	
	a = 200 ft	W-483-3
CONTOURS OF APPARENT RESISTIVITY	a = 200 ft n=1	W-483-4
" " " " "	a = 200 ft n=2	W-483-5
" " " " "	10 pt. average	
	a = 200 ft	W-483-6
CONTOURS OF APPARENT METAL FACTOR	a = 200 ft n=1	W-483-7
" " " " "	a = 200 ft n=2	W-483-8
" " " " "	10 point average	
	a = 200 ft.	W-483-9

INTRODUCTION.

Between October 23rd and November 4th, 1990, Peter E. Walcott & Associates Limited carried out an induced polarization survey over part of a property, located in the McLeese Lake area of British Columbia for Gibraltar Mines Limited.

The survey was carried out over N 45° E lines that were turned off at 500 foot intervals from a N 45° W baseline, and were chained and picketed at 200 foot intervals.

Measurements (first to fourth separation) of apparent frequency effect (the I.P. response parameter) and resistivity were made every 200 feet along the lines using the dipole-dipole method of surveying with a 200 foot dipole.

The I.P. data are presented in contour form on individual pseudo-sections bound in this report. In addition the first, second and ten point moving average (filter) frequency effect, resistivity and metal factor results are shown in contour form on Maps W-483-1 to 9 that accompany this report.

PROPERTY, LOCATION & ACCESS.

The property is located in the Cariboo Mining Division of British Columbia and consists of the following claims:

<u>Claim Name</u>	<u>No. of Units</u>	<u>Record No.</u>	<u>Anniversary</u>
Guy 1	18	8991	February 8th

The claim is situated in an area of gentle relief between elevations of 3400 and 4300 feet on the southeast flank of Granite Mountain, some 10 kilometres northeast of the settlement of McLeese Lake, British Columbia.

Access was obtained by means of four wheel drive vehicle along an access road that branches off the Beaver Valley road near Camp Creek.

PREVIOUS WORK.

Previous work on the property consisted of unrecorded trenching and diamond drilling carried out by Gunn Mines in the early 70's.

GEOLOGY.

The reader is referred to the many reports on the area held by Gibraltar Mines Ltd.

Basically the property covers a gentle southeast slope with mainly thin overburden. This slope is underlain by "Granite Mountain phase" rock of the Granite Mountain pluton consisting of about 40% quartz, 45% white feldspar and 10% chlorite altered biotite.

The rock is cut by shear zones and vein systems variously mineralized with quartz, chlorite, sericite, iron carbonate and epidote. Sulphide mineralization - mainly pyrite and chalcopyrite - is generally confined within these alteration assemblages.

PURPOSE.

The purpose of the survey was to use the I.P. method in an effort to locate additional sulphide mineralization on the property, the presence of which was suggested by the favourable geology and the known mineralization exposed in the trenches.

SURVEY SPECIFICATIONS.

The induced polarization (I.P.) survey was carried out using a system originally manufactured by McPhar Geophysics Limited of Metropolitan Toronto, Ontario. Measurements with this system are made in the frequency domain.

The system basically consists of three units; a receiver, a transmitter and a motor generator. The transmitter, which obtains its power from the 2.5 kw 400 cycle generator driven by a gasoline engine, injects current into the ground at two electrodes, C₁ and C₂, at two preselected frequencies, while the receiver, a very stable and sensitive potentiometer tuned to the frequency selected, makes measurements of observed voltages across the potential electrodes P₁ and P₂.

The data recorded in the field consists of careful measurements of the current (I) in amperes flowing through electrodes C₁ and C₂, the voltage (V) appearing between the potential electrodes P₁ and P₂ on the high frequency, and the "percentage apparent frequency effect" appearing between P₁ and P₂. The receiver is designed to measure the latter directly which is expressed as follows:

$$\% \text{age F.E.} = \{(\rho_a \text{ low} - \rho_a \text{ high}) / \rho_a \text{ high}\} \times 100$$

The apparent resistivity (ρ_a) in ohm-feet is proportional to the ratio of the measured voltage and current, the proportionality factor depending on the geometry of the array used. In practise $\rho_a / 2\pi$ is plotted.

A third parameter termed the "metal factor" is also calculated by dividing the apparent frequency effect by $\rho_a / 2\pi$ and multiplying by 1,000.

The survey was carried out using the "dipole-dipole" electrode array. This electrode configuration and the methods of presenting the results are illustrated in the appendix in the respective pseudosections. Depth penetration with this array is increased or decreased by increasing or decreasing "a" and/or "n".

SURVEY SPECIFICATIONS cont'd

In practise, the equipment is set up at a particular station of the line to be surveyed: three transmitting dipoles are laid out to the rear, measurements are made for all possible combinations of transmitting and receiving dipoles up to the fourth separation, i.e. $n=4$; the equipment is then moved 3 "a" feet along the line to the next set-up.

A 200 foot dipole was employed on the survey and first to fourth separation measurements were made for a total of some 11.5 miles of coverage.

DISCUSSION OF RESULTS.

The results of the I.P. survey showed the property to exhibit a low frequency effect background above which two zones of high frequency effects are clearly discernible on the contoured plans - Maps W-483-1 to 3.

The smaller and weaker of these approximately coincides with an area of trenching and exposed sulphide mineralization and probable diamond drilling investigation, and would appear to be fully delineated.

The stronger zone is undefined to the west where it also broadens, and exhibits no evidence of previous investigation, although trenching is indicated some 1400 feet to the northwest along strike.

It is somewhat complex as can be seen from the individual pseudosections with apparent associated lower resistivities in places giving rise to narrower and more pronounced metal factor anomalies - Maps W-483-7 to 9.

SUMMARY, CONCLUSIONS & RECOMMENDATIONS.

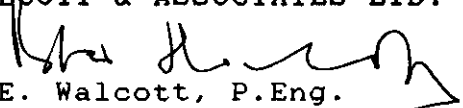
Between October 23rd and November 4th, 1990, Peter E. Walcott & Associates Limited carried out a small induced (I.P.) survey in the McLease Lake area near the operating Gibraltar mine for Gibraltar Mines Ltd.

The survey located the presence of two zones of high frequency effects clearly discernible above the otherwise low background, the smaller and weaker of which coincided with an area of previous investigation, and the stronger and larger of which had the appearance of representing the tip of a larger causative source to the northwest.

As a result the writer recommends that the results of the survey be further studied with the results of previous work (if available) and with geology and geochemistry before committing to further definition of the anomaly and/or investigating its causative source by drilling.

Respectfully submitted,

PETER E. WALCOTT & ASSOCIATES LTD.


Peter E. Walcott, P.Eng.
Geophysicist

Vancouver,
British Columbia

December 1990

PETER E. WALCOTT & ASSOC. LTD.

A P P E N D I X
=====

GEOPHYSICAL SERVICES

COST OF SURVEY.

Peter E. Walcott & Associates Limited undertook the survey on a daily basis. Mobilization and reporting costs were extra so that the total costs of services provided was \$20,087.24.

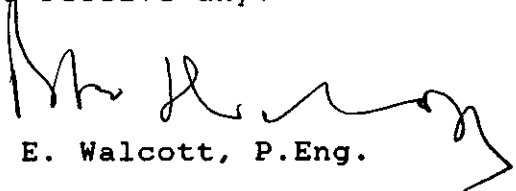
PERSONNEL EMPLOYED ON SURVEY.

<u>Name</u>	<u>Occupation</u>	<u>Address</u>	<u>Dates</u>
Peter E. Walcott	Geophysicist	Peter E. Walcott & Assoc. 605 Rutland Court, Coquitlam, B.C. V3J 3T8	Dec. 29-30, 1990
M. Andrews	"	"	Oct. 23-Nov. 4, 1990
G. MacMillan	Geophysical Operator	"	Oct. 23-Nov. 6, 1990
R. Summerfield	"	"	Oct. 23-Nov. 4, 1990
I. Franey	"	"	"
J. Walcott	Typing	"	Dec. 30th, 1990

CERTIFICATION.

I, Peter E. Walcott, of the Municipality of Coquitlam, British Columbia, hereby certify that:

1. I am a graduate of the University of Toronto in 1962 with a B.A.Sc. in Engineering Physics, Geophysics Option.
2. I have been practising my profession for the last twenty eight years.
3. I am a member of the Association of Professional Engineers of British Columbia and Ontario.
4. I hold no interest, direct or indirect in the securities or properties of Gibraltar Mines Limited nor do I expect to receive any.


Peter E. Walcott, P.Eng.

Vancouver,
British Columbia

December 1990

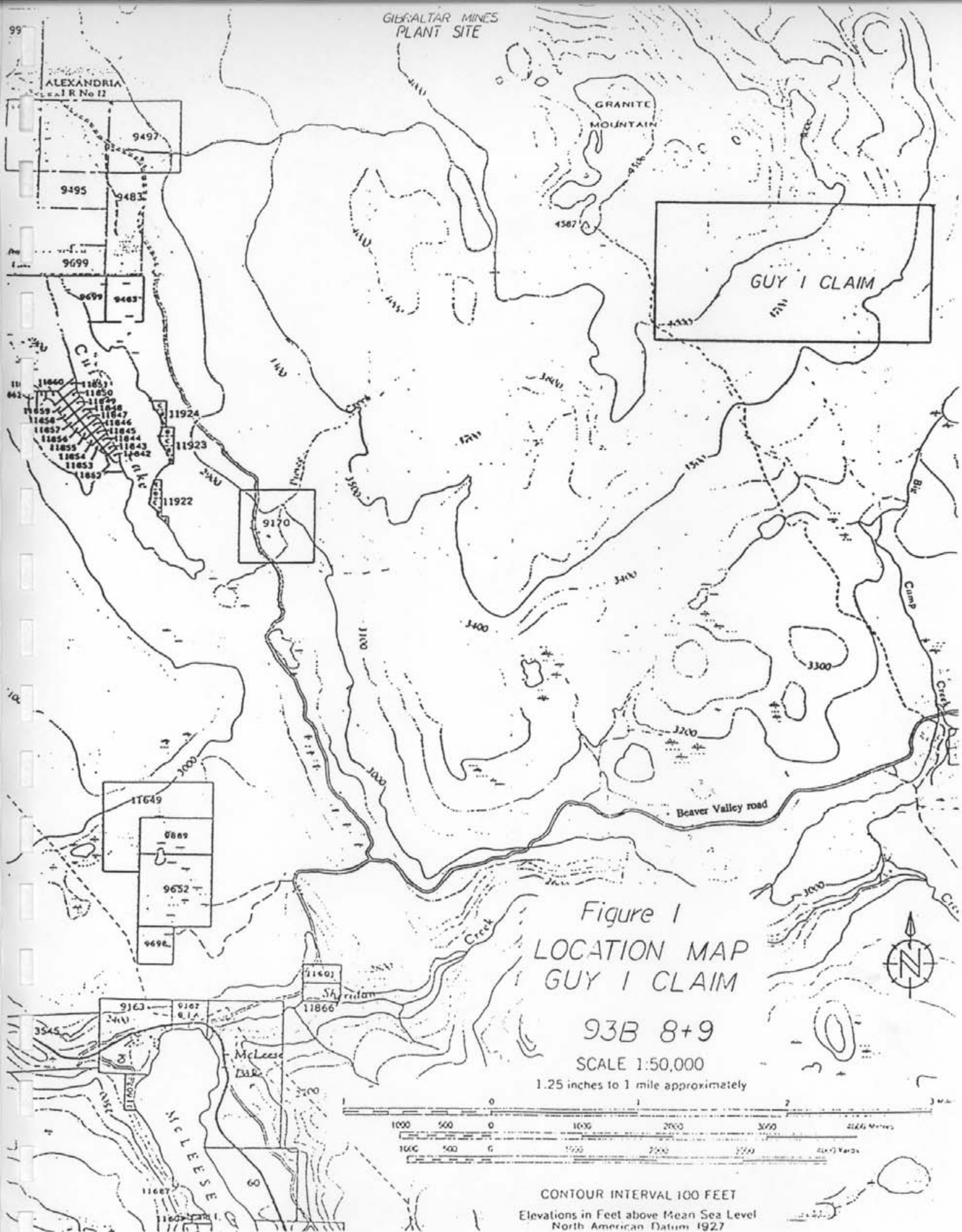
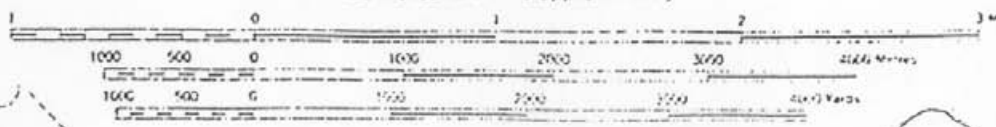


Figure 1
LOCATION MAP
GUY 1 CLAIM

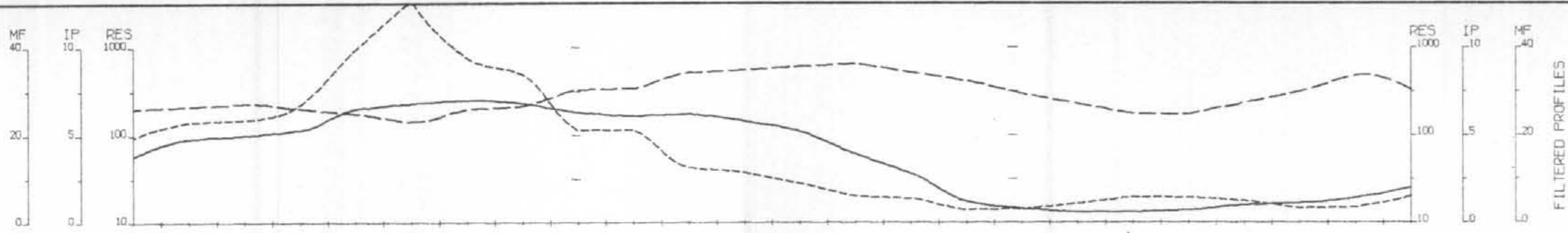
93B 8+9

SCALE 1:50,000

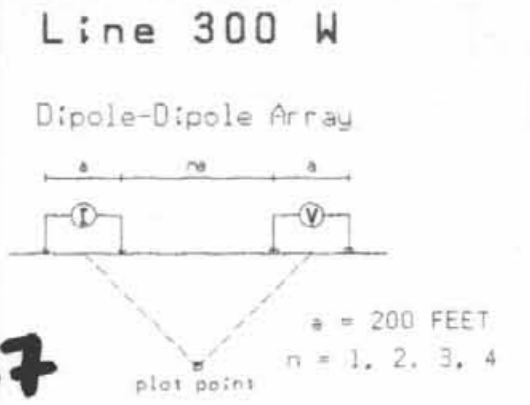
1.25 inches to 1 mile approximately



CONTOUR INTERVAL 100 FEET
Elevations in Feet above Mean Sea Level
North American Datum 1927



20867



TOPOGRAPHY

Filtered Profiles

Resistivity filter: *

Polarization **

Metal Factor ***

RESISTIVITY
(ohm-ft/2pi)

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...

Instrument: McPHAR P660 Rx & Tx
Frequency: 0.3 & 5.0 Hz.
Operator: G.M., R.S.

INTERPRETATION

- Well defined, strong increase in polarization with or without marked decrease in resistivity.
- Fairly well defined moderate increase in polarization.
- Poorly defined polarization increase.
- Resistivity feature.

P.F.E
(%)

	48+00 S	44+00 S	40+00 S	36+00 S	32+00 S	28+00 S	24+00 S	20+00 S	16+00 S	12+00 S	8+00 S	4+00 S	filter												
filter	200	214	229	201	175	149	195	216	391	399	515	554	606	649	517	414	296	226	174	172	291	312	476	300	filter
n=1	202	239	292	202	172	107	184	157	417	203	636	568	527	747	554	416	188	123	98	67	98	180	537	309	n=1
n=2	225	221	230	218	106	135	217	221	263	478	419	650	744	677	447	367	222	157	99	135	194	522	385	n=2	
n=3	185	186	253	149	139	178	200	199	516	402	524	767	644	469	379	410	245	147	170	225	550	317	n=3		
n=4	182	209	164	190	179	215	289	378	438	532	637	592	457	364	400	480	227	232	250	586	322	n=4			

	48+00 S	44+00 S	40+00 S	36+00 S	32+00 S	28+00 S	24+00 S	20+00 S	16+00 S	12+00 S	8+00 S	4+00 S	filter												
filter	3.8	4.8	5	5.3	6.5	6.8	7	6.8	6.3	6.1	6.2	5.8	5.2	3.9	2.8	1.2	.8	.6	.6	.7	1	1.1	1.4	2	filter
n=1	2.8	3.7	3.3	3.7	6.7	7.1	6.7	6.8	6.8	7.2	5.4	4.2	6.1	4.7	3.6	.7	1.3	1.3	1.3	.8	.8	.2	.4	1.7	n=1
n=2	3.8	5.3	4.4	6.2	7	7.2	7.7	6.8	5.2	5.2	8.2	5	4.8	3.7	2.7	.4	.8	1.2	.8	.8	.6	1.5	1.4	n=2	
n=3	5.3	5.5	6.5	5.5	6.7	7.2	8.2	5.6	4.2	7.2	8.1	4.2	2.8	2.3	1.7	-.3	-.1	.2	.7	.6	1.7	2.9	n=3		
n=4	5.7	7.6	6.3	5.7	6.5	7.3	6.5	4.7	6.8	7.2	6.7	3.6	2	2.2	1.5	-.4	-.2	.3	.2	1.9	2.8	n=4			

INTERPRETATION

	48+00 S	44+00 S	40+00 S	36+00 S	32+00 S	28+00 S	24+00 S	20+00 S	16+00 S	12+00 S	8+00 S	4+00 S	filter												
filter	20	23	24	27	40	51	38	34	21	21	13	11	8.9	6	5.5	2.9	3.1	4.3	5.8	5.7	4.9	3.3	3.5	6	filter
n=1	14	16	11	19	39	66	36	43	16	36	6.5	7.4	12	6.3	6.5	1.7	6.9	10	14	12	6.1	1.2	.7	5.5	n=1
n=2	17	24	19	28	66	54	35	31	20	11	20	7.7	6.5	5.5	6	1.1	3.6	7.6	6.1	5.9	3.1	2.9	3.6	n=2	
n=3	29	29	26	37	48	40	28	28	8.1	18	16	5.5	4.3	4.8	4.5	-.7	-.4	1.4	4.1	2.7	3.1	9.1	n=3		
n=4	35	36	38	30	35	34	22	12	16	14	10	6.1	4.4	6	3.8	-.9	-.9	1.3	.8	3.2	8.7	n=4			

METAL FACTOR
(ip/res * 1000)

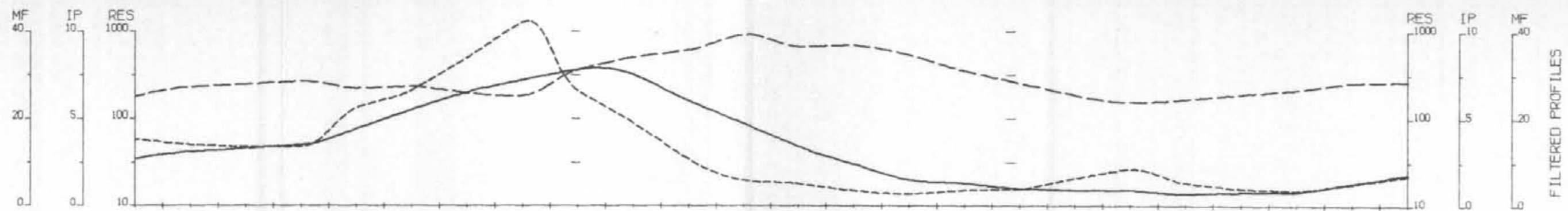
GIBRALTAR MINES LTD.

INDUCED POLARIZATION SURVEY

GUY # 1 CLAIM GRID
McLEESE LAKE AREA ; B.C.

Date: 90/11/07 N.T.S.: 93/B-8
Interpretation by:
Scale: 1 : 400

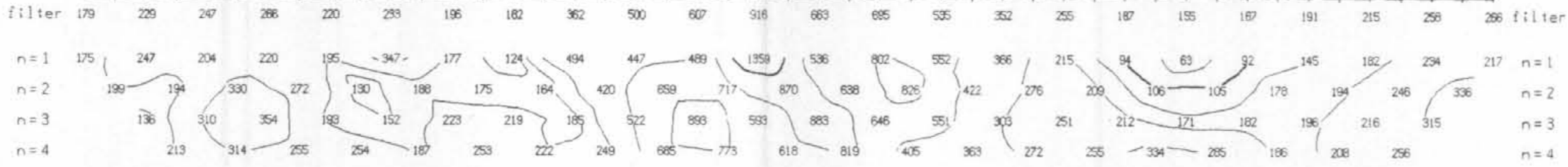
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FILTERED PROFILES

TOPOGRAPHY

48+00 S 44+00 S 40+00 S 36+00 S 32+00 S 28+00 S 24+00 S 20+00 S 16+00 S 12+00 S 8+00 S 4+00 S



RESISTIVITY
(ohm-ft/2pi)

Resistivity filter
Polarization *
Metal Factor * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...

Instrument: McPHAR P660 Rx & Tx
Frequency: 0.3 & 5.0 Hz.
Operator: G.M.,R.S.

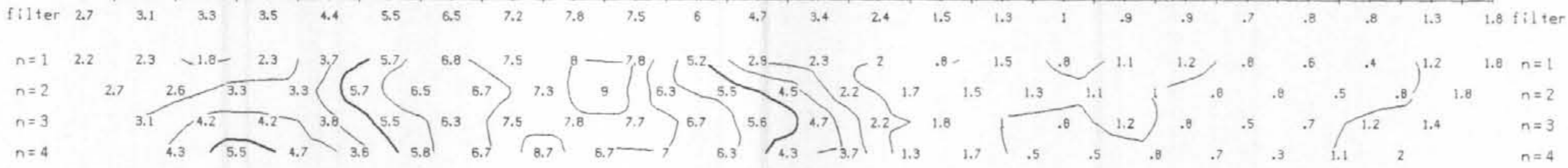
INTERPRETATION

- Well defined, strong increase in polarization with or without marked decrease in resistivity.
- Fairly well defined moderate increase in polarization.
- Poorly defined polarization increase.

20867
Resistivity feature.

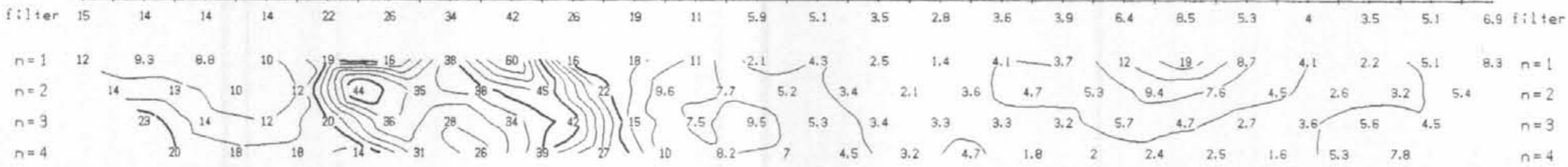
INTERPRETATION

48+00 S 44+00 S 40+00 S 36+00 S 32+00 S 28+00 S 24+00 S 20+00 S 16+00 S 12+00 S 8+00 S 4+00 S



P.F.E
(%)

48+00 S 44+00 S 40+00 S 36+00 S 32+00 S 28+00 S 24+00 S 20+00 S 16+00 S 12+00 S 8+00 S 4+00 S



METAL FACTOR
(ip/res * 1000)

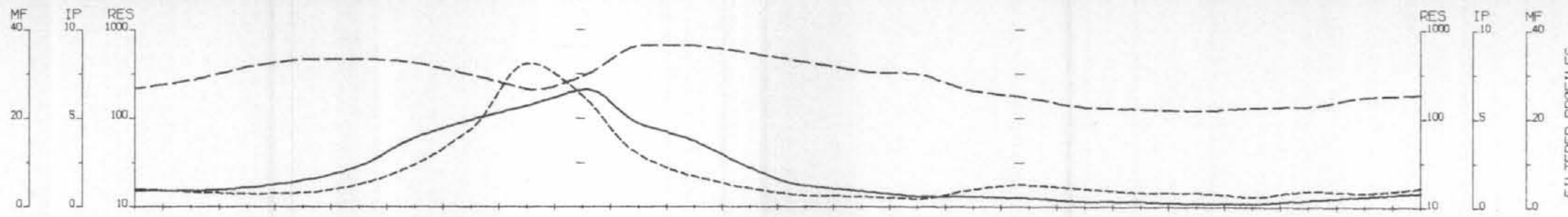
GIBRALTAR MINES LTD.

INDUCED POLARIZATION SURVEY

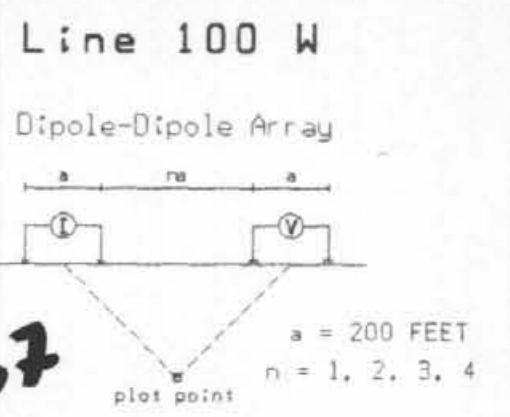
GUY # 1 CLAIM GRID
McLEESE LAKE AREA ; B.C.

Date: 90/11/07 N.T.S.: 93/B-8
Interpretation by:
Scale: 1 : 400

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TOPOGRAPHY

Filtered Profiles

Resistivity	---	filter
Polarization	---	*
Metal Factor	---	**

RESISTIVITY
(ohm-ft/2p)

Logarithmic
Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...

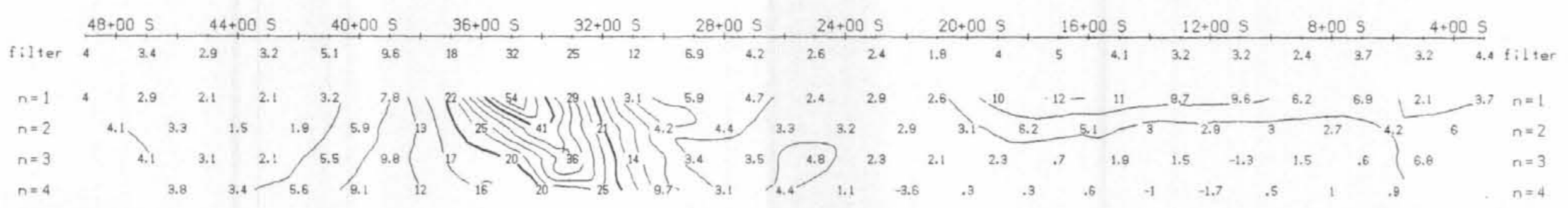
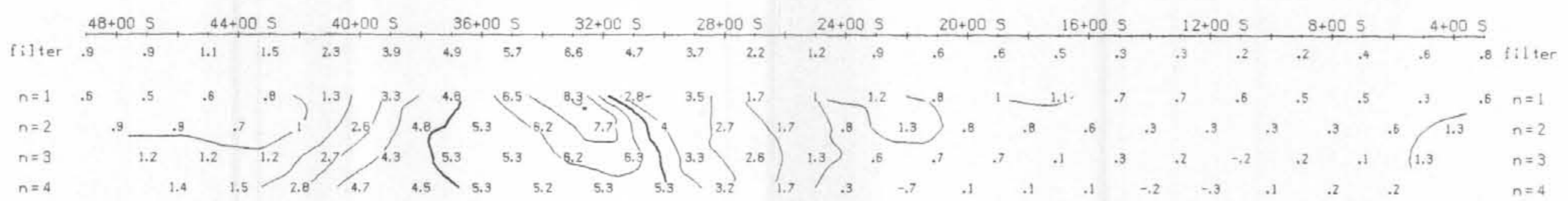
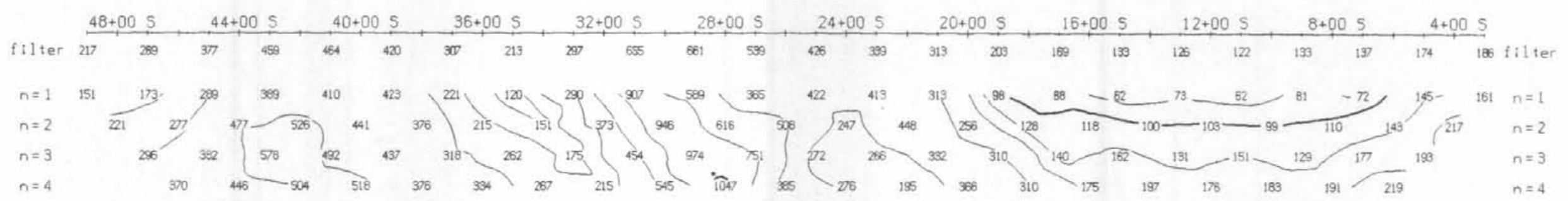
Instrument: McPHAR P660 Rx & Tx
Frequency: 0.3 & 5.0 Hz.
Operator: G.M., R.S.

INTERPRETATION

- Well defined, strong increase in polarization with or without marked decrease in resistivity.
- Fairly well defined moderate increase in polarization.
- Poorly defined polarization increase.
- Resistivity feature.

P.F.E
(%)

INTERPRETATION



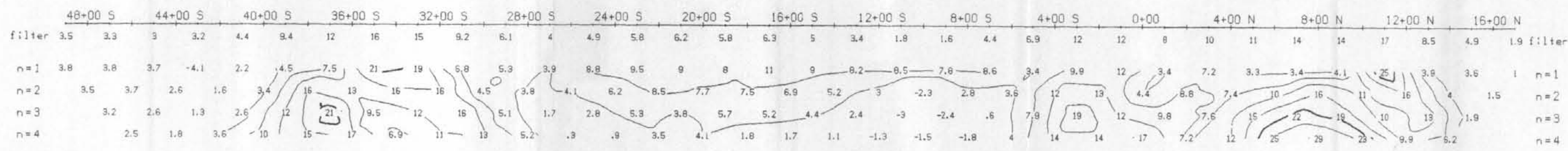
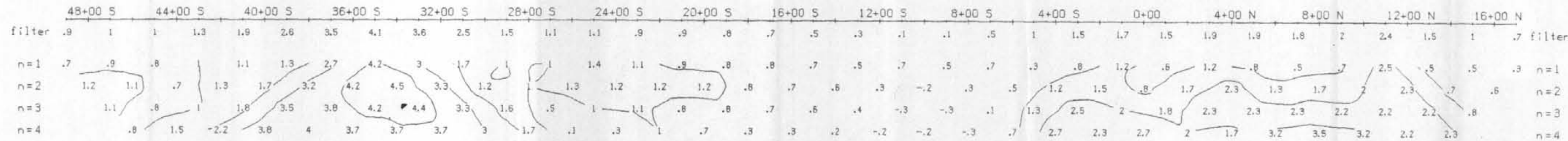
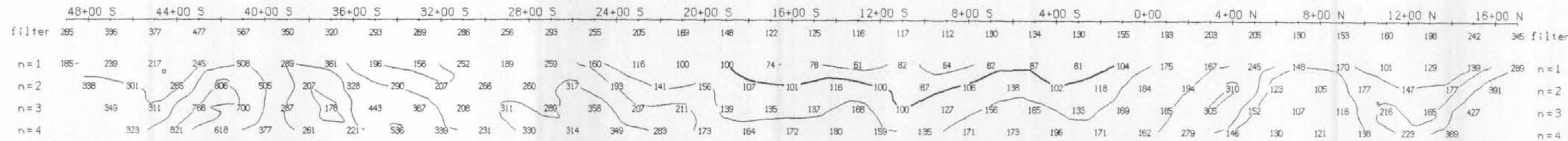
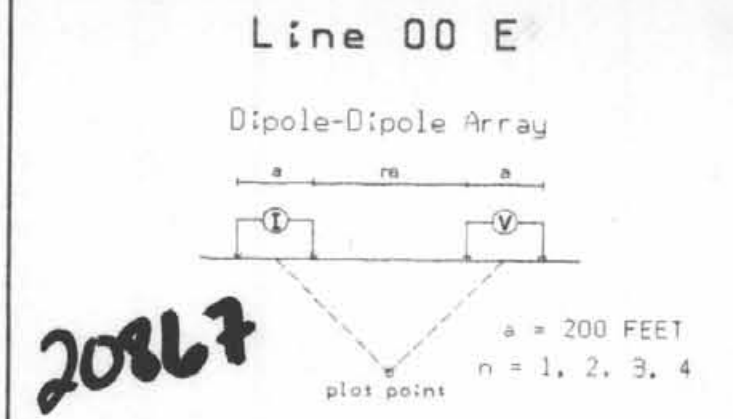
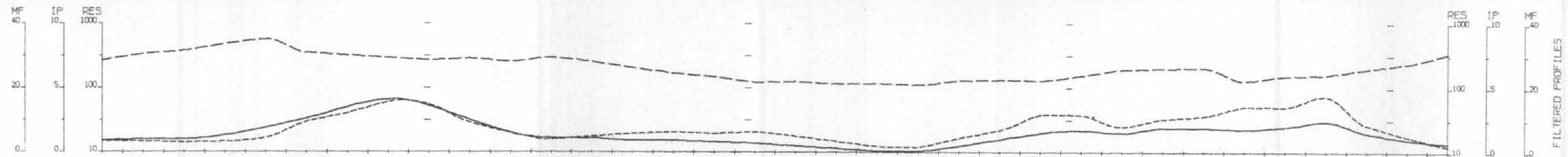
METAL FACTOR
(ip/res * 1000)

GIBRALTAR MINES LTD.

INDUCED POLARIZATION SURVEY
GUY # 1 CLAIM GRID
McLEESE LAKE AREA ; B.C.

Date: 90/11/07 N.T.S.: 93/B-8
Interpretation by:
Scale: 1 : 400

PETER E. WALCOTT & ASSOC. LTD.



TOPOGRAPHY

RESISTIVITY

P.F.E (%)

INTERPRETATION

METAL FACTOR

Filtered Profiles

Resistivity ——— filter
Polarization ——— *
Metal Factor - - - - - **

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...

Instrument: McPHAR P660 Rx & Tx
Frequency: 0.3 & 5.0 Hz.
Operator: G.M., R.S.

INTERPRETATION

Well defined, strong increase in polarization with or without marked decrease in resistivity.

Fairly well defined moderate increase in polarization.

Poorly defined polarization increase.

Resistivity feature.

GIBRALTAR MINES LTD.

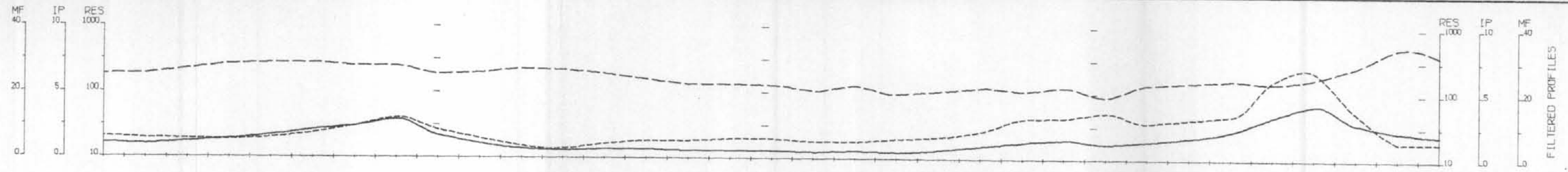
INDUCED POLARIZATION SURVEY

GUY # 1 CLAIM GRID

McLEESE LAKE AREA ; B.C.

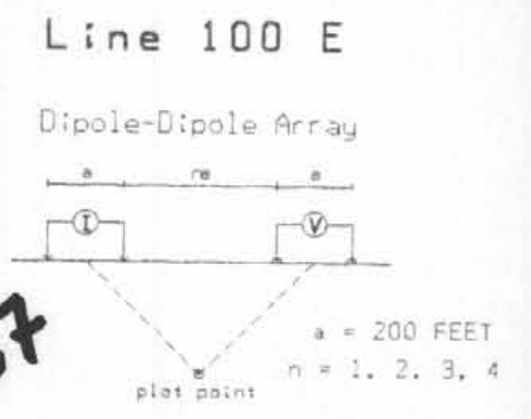
Date: 90/11/07 N.T.S.: 93/B-8
Interpretation by:
Scale: 1 : 400

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FILTERED PROFILES

20867



TOPOGRAPHY

Filtered Profiles

Resistivity ——— filter
Polarization ——— *
Metal Factor - - - - - * * * *

RESISTIVITY
(ohm-ft/2pi)

Logarithmic
Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...

Instrument: McPHAR P560 Rx & Tx
Frequency: 0.3 & 5.0 Hz.
Operator: G.M., R.S.

INTERPRETATION

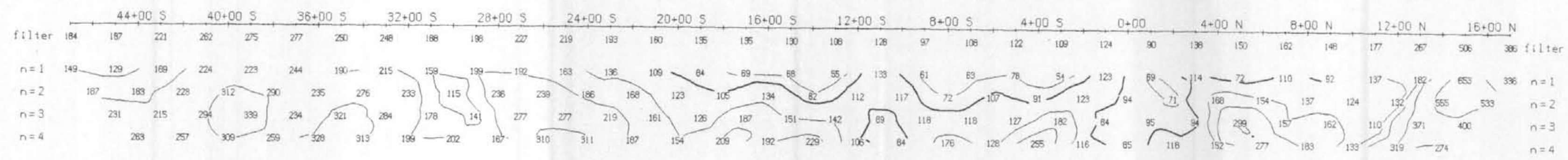
- Well defined, strong increase in polarization with or without marked decrease in resistivity.
- ▬ Fairly well defined moderate increase in polarization.
- ▬ Poorly defined polarization increase.
- ▬ Resistivity feature.

GIBRALTAR MINES LTD.

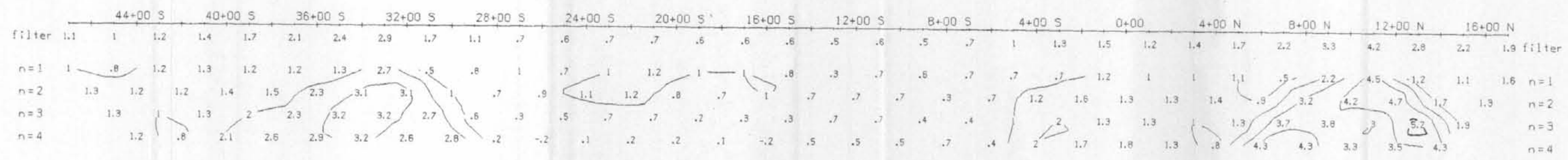
INDUCED POLARIZATION SURVEY
GUY # 1 CLAIM GRID
McLEESE LAKE AREA ; B.C.

Date: 90/11/07 N.T.S.: 93/8-8
Interpretation by:
Scale: 1 : 400

PETER E. WALCOTT & ASSOC. LTD.

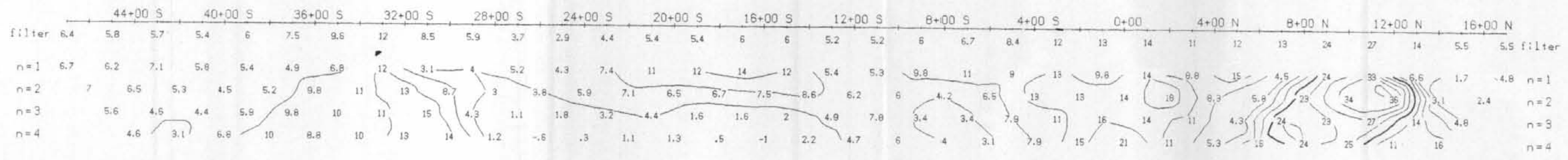


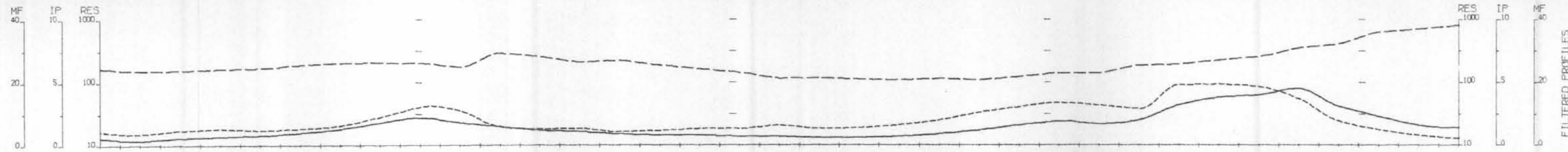
P.F.E
(%)



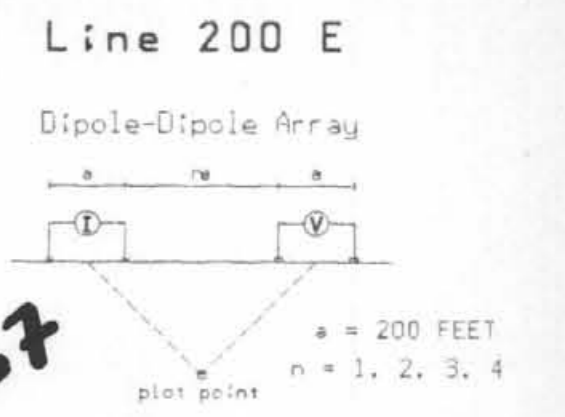
INTERPRETATION

METAL FACTOR
(ip/res * 1000)





20867



TOPOGRAPHY

Filtered Profiles

Resistivity ——— filter
Polarization ——— *
Metal Factor ——— * * * *

RESISTIVITY
(ohm-ft/2pi)

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...

Instrument: McPHAR P660 Rx & Tx
Frequency: 0.3 & 5.0 Hz.
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INTERPRETATION

- Well defined, strong increase in polarization with or without marked decrease in resistivity.
- Fairly well defined moderate increase in polarization.
- Poorly defined polarization increase.
- Resistivity feature.

P.F.E (%)

INTERPRETATION

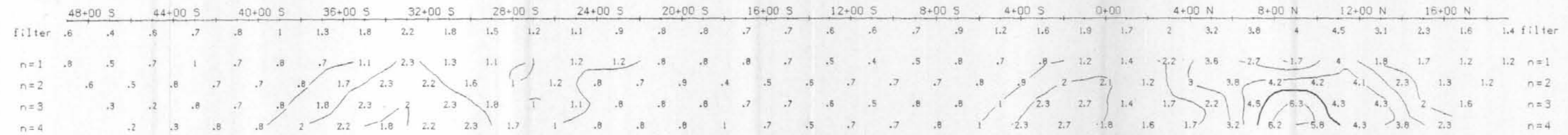
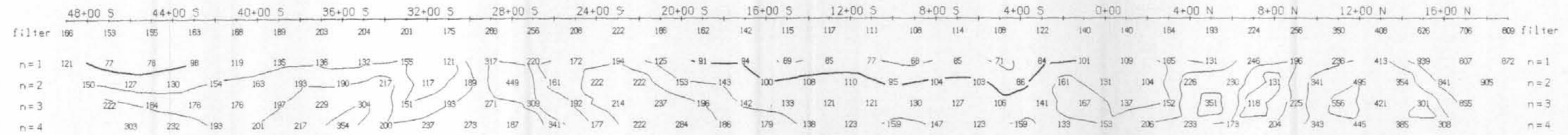
GIBRALTAR MINES LTD.

INDUCED POLARIZATION SURVEY

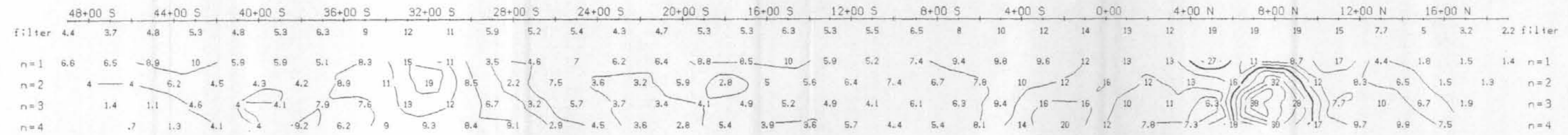
GUY # 1 CLAIM GRID
McLEESE LAKE AREA ; B.C.

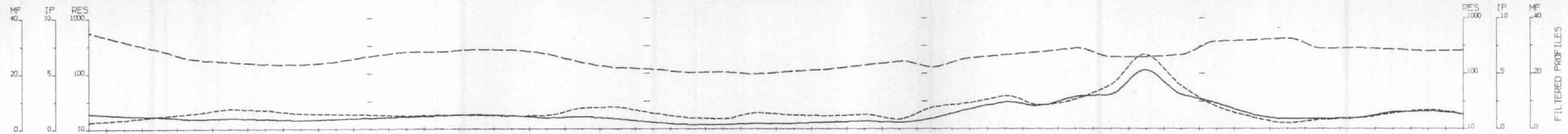
Date: 90/11/07 N.T.S.: 93/B-8
Interpretation by:
Scale: 1 : 400

PETER E. WALCOTT & ASSOC. LTD.



METAL FACTOR
(ip/res * 1000)





FILTERED PROFILES

TOPOGRAPHY

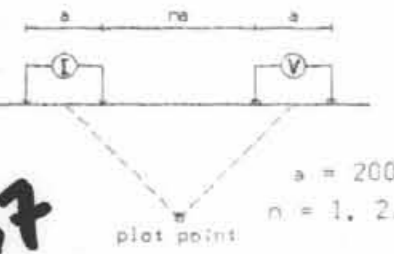
RESISTIVITY
(ohm-ft/2pi)

P.F.E
(%)

METAL FACTOR
(ip/res * 1000)

Line 300 E

Dipole-Dipole Array



20867

Filtered Profiles

Resistivity ——— *
Polarization ——— **
Metal Factor - - - - - ***

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...

Instrument: McPHAR P660 Rx & Tx
Frequency: 0.3 & 5.0 Hz.
Operator: G.M., R.S.

INTERPRETATION

- Well defined, strong increase in polarization with or without marked decrease in resistivity.
 - Fairly well defined moderate increase in polarization.
 - Poorly defined polarization increase.
- Resistivity feature.

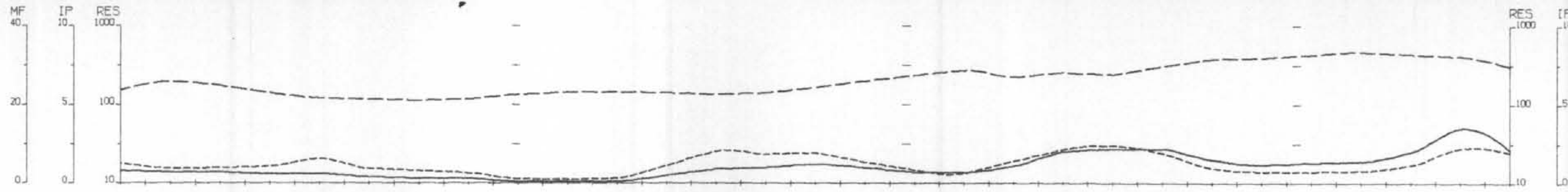
GIBRALTAR MINES LTD.

INDUCED POLARIZATION SURVEY

GUY # 1 CLAIM GRID
McLEESE LAKE AREA ; B.C.

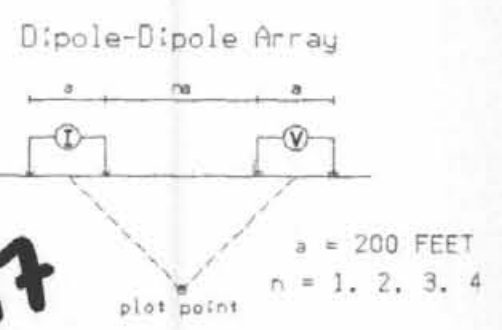
Date: 90/11/07 N.T.S.: 93/B-8
Interpretation by:
Scale: 1 : 400

PETER E. WALCOTT & ASSOC. LTD.



20867

Line 400 E



TOPOGRAPHY

Filtered Profiles

Resistivity filter
 Polarization *
 Metal Factor * * *

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...

Instrument: McPHAR P660 Rx & Tx
 Frequency: 0.3 & 5.0 Hz.
 Operator: G.M..R.S.

INTERPRETATION

- Well defined, strong increase in polarization with or without marked decrease in resistivity.
- Fairly well defined moderate increase in polarization.
- Poorly defined polarization increase.
- Resistivity feature.

	28+00 S	24+00 S	20+00 S	16+00 S	12+00 S	8+00 S	4+00 S	0+00	4+00 N	8+00 N	12+00 N	16+00 N	20+00 N	24+00 N	filter														
filter	153	185	174	141	121	117	112	118	134	143	144	141	134	141	185	200	296	273	226	255	249	308	361	393	432	469	498	411	305
n=1	146	192	122	79	61	61	56	58	105	105	61	65	85	102	141	212	210	244	152	272	200	227	281	252	366	507	475	512	368
n=2		143	231	150	91	95	92	89	124	146	138	124	113	102	151	205	180	321	243	232	236	237	363	383	398	509	523	482	223
n=3		171	246	156	123	133	136	134	141	151	179	185	154	133	182	161	280	287	333	174	240	334	453	482	447	415	515	255	
n=4			174	231	195	161	189	189	138	126	175	239	235	192	153	143	241	253	351	239	162	313	429	554	499	349	442	285	

RESISTIVITY (ohm-ft/2pi)

	28+00 S	24+00 S	20+00 S	16+00 S	12+00 S	8+00 S	4+00 S	0+00	4+00 N	8+00 N	12+00 N	16+00 N	20+00 N	24+00 N	filter														
filter	.8	.7	.7	.6	.6	.4	.3	.3	.1	.1	.1	.5	.9	1	1.2	1	.7	.7	1.1	2	2.2	2.2	1.5	1.2	1.3	1.4	2	3.5	2.1
n=1	.8	.7	.6	.3	.7	.3	.3	.3	.2	.2	.2	.6	.8	.5	1.1	.9	.5	.7	1.2	2	1.8	1.9	.6	.7	1.3	1.2	1.8	5.2	1.5
n=2		.8	.6	.6	.7	.5	.4	.3	.2	0	.1	.3	.7	1.2	1.2	1.3	.9	.6	.2	1.8	3.2	2	2.2	.8	1	1.2	1.5	3.3	3.3
n=3		.8	.8	.6	.7	.3	.2	.2	.5	-.4	.1	.2	.7	1.7	1.3	.8	.8	.2	.8	2.5	3.2	1.7	2.3	1	.8	1.8	2.7	2.2	
n=4			.5	.9	.7	.5	.3	0	.3	.3	-.2	.3	.5	1.3	1.4	1.2	1.5	.8	.8	1.2	1.7	3	2.2	2.4	1.2	1.3	1.3	2.1	

P.F.E (%)

INTERPRETATION

	28+00 S	24+00 S	20+00 S	16+00 S	12+00 S	8+00 S	4+00 S	0+00	4+00 N	8+00 N	12+00 N	16+00 N	20+00 N	24+00 N	filter														
filter	5.1	3.8	3.9	4.3	6.2	3.7	3.2	2.6	1.1	1	1.2	4.5	8.1	7.4	7.7	5.4	3.4	2.6	5.7	8.6	9.6	7.7	3.9	9	3	3.2	4.7	8.9	7.8
n=1	5.5	3.7	4.9	3.8	12	5	5.4	4.4	1.9	1.9	2.5	9.3	12	4.9	7.8	4.3	2.4	2.9	7.9	7.4	9	8.4	2.1	2.7	3.5	2.4	3.4	10	4.1
n=2		5.6	2.6	4	7.7	5.3	4.4	3.4	1.6	0	.7	2.4	6.2	12	7.9	6.4	5	1.9	.8	6.9	14	8.4	6.1	2.1	2.5	2.4	2.9	6.9	15
n=3			4.7	3.3	3.9	5.7	2.3	1.5	1.5	3.5	-2.6	.6	1.1	4.5	13	7.1	5	3.1	.7	1.8	14	13	5.1	5.1	2.1	1.8	4.3	5.2	8.6
n=4				2.9	3.9	3.6	3.1	1.6	0	2.2	2.4	-1.1	1.3	2.1	6.9	9.2	8.4	6.2	3.2	2.3	5	10	9.6	5.1	4.3	2.4	3.7	2.9	7.4

METAL FACTOR (ip/res * 1000)

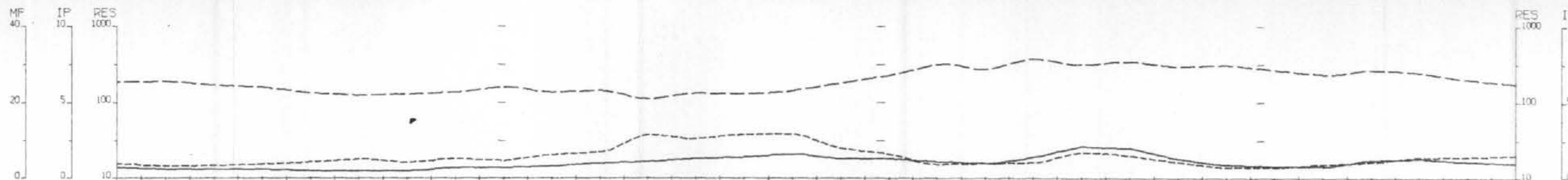
GIBRALTAR MINES LTD.

INDUCED POLARIZATION SURVEY

GUY # 1 CLAIM GRID
 McLEESE LAKE AREA ; B.C.

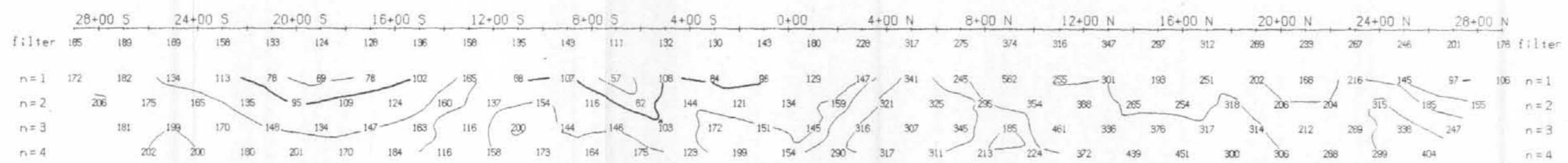
Date: 90/11/07 N.T.S.: 93/B-8
 Interpretation by:
 Scale: 1 : 400

PETER E. WALCOTT & ASSOC. LTD.

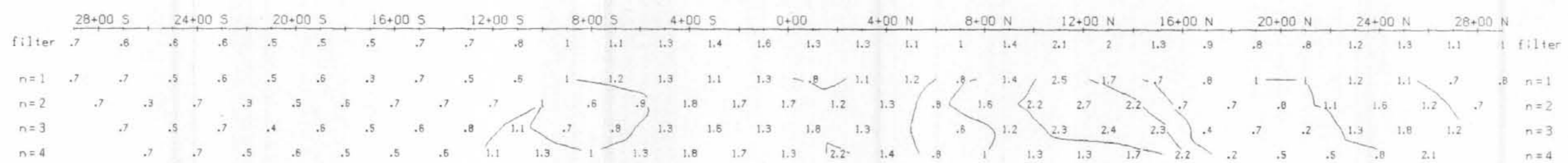


RES
1000
IP
10
MF
40
20
0

TOPOGRAPHY

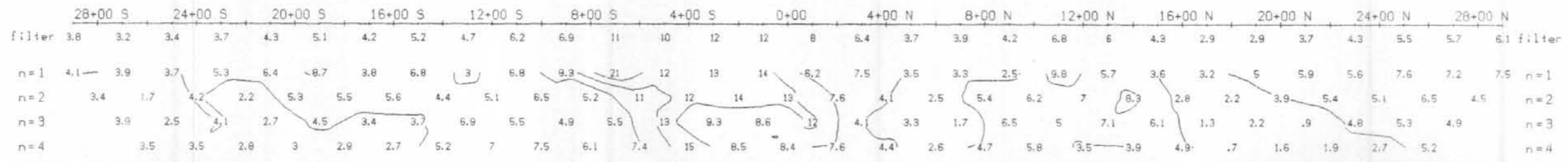


RESISTIVITY
(ohm-ft/2p)

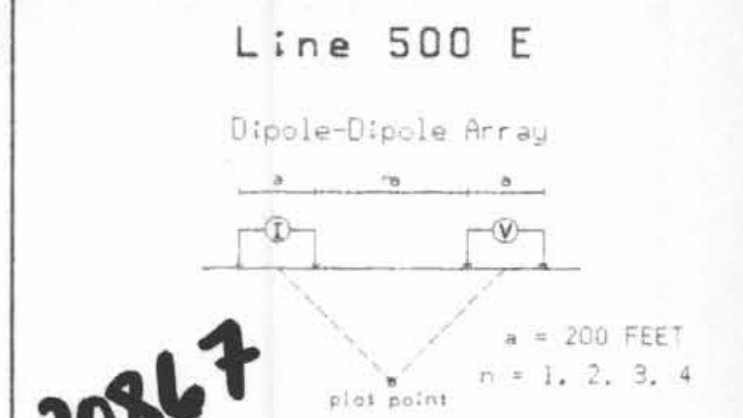


P.F.E.
(%)

INTERPRETATION



METAL FACTOR
(ip/res * 1000)



20867

Filtered Profiles
 Resistivity ———— *
 Polarization ———— **
 Metal Factor - - - - - ***
 Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10....

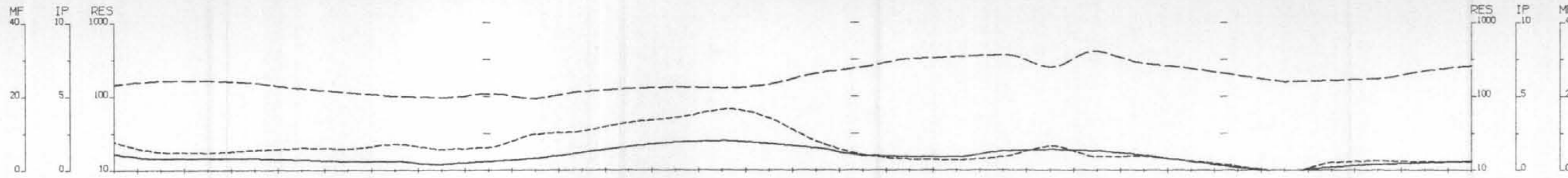
Instrument: McPHAR P660 Rx & Tx
 Frequency: 0.3 & 5.0 Hz.
 Operator: G.M.,R.S.

INTERPRETATION
 Well defined, strong increase in polarization with or without marked decrease in resistivity.
 Fairly well defined moderate increase in polarization.
 Poorly defined polarization increase.
 Resistivity feature.

GIBRALTAR MINES LTD.
 INDUCED POLARIZATION SURVEY
 GUY # 1 CLAIM GRID
 McLEESE LAKE AREA ; B.C.

Date: 90/11/07 N.T.S.: 93/B-8
 Interpretation by:
 Scale: 1 : 400

PETER E. WALCOTT & ASSOC. LTD.



TOPOGRAPHY

	28+00 S	24+00 S	20+00 S	16+00 S	12+00 S	8+00 S	4+00 S	0+00	4+00 N	8+00 N	12+00 N	16+00 N	20+00 N	24+00 N	28+00 N	filter															
filter	144	163	163	151	127	112	100	95	108	98	115	126	134	129	144	204	249	320	343	365	246	406	277	237	192	157	188	173	220	257	filter
n=1	119	139	123	98	79	72	57	37	71	56	89	87	110	97	91	142	132	206	241	388	154	529	142	103	57	89	85	124	253	311	n=1
n=2	180	181	161	127	100	85	64	101	86	70	134	134	124	110	158	206	264	336	435	251	306	481	177	181	100	113	163	181	238	n=2	
n=3	185	187	186	145	111	91	149	110	100	98	186	134	122	168	187	341	338	547	233	402	217	468	241	239	153	190	213	173	n=3		
n=4	186	206	201	156	114	194	147	123	134	129	179	126	171	177	236	398	486	276	323	252	217	567	276	335	224	221	206	n=4			

RESISTIVITY
(ohm-ft/2pi)

	28+00 S	24+00 S	20+00 S	16+00 S	12+00 S	8+00 S	4+00 S	0+00	4+00 N	8+00 N	12+00 N	16+00 N	20+00 N	24+00 N	28+00 N	filter															
filter	1.1	.8	.8	.8	.7	.6	.6	.4	.6	.8	1.2	1.6	1.9	2	1.8	1.5	1	.9	.9	1.3	1.4	1.3	1	.6	.2	-.1	.2	.4	.5	.6	filter
n=1	1.2	.7	.7	.7	.7	.6	.6	.3	.6	.8	1.1	1.5	1.3	1.8	1.7	1.2	.4	.7	.6	1.3	1.7	1.2	.5	.2	.2	-.2	.7	.7	.7	.7	n=1
n=2		.7	.7	.8	.7	.5	.7	.4	.7	1.2	1.5	2	2.5	2.1	1.7	1.3	.8	.7	1.3	1.5	1.3	1.2	.6	.2	-.2	-.3	.7	.6	.7	n=2	
n=3		.9	.8	.8	.8	.3	.5	.8	-.2	1.2	.8	1.7	2.5	2.5	1.8	1.4	1.3	.7	1.3	1.3	1.4	1.6	1.2	.8	.3	-.4	-.2	.1	.2	n=3	
n=4		.8	.8	.8	.7	.3	.8	1	.2	.8	1.1	1.6	1.8	2.3	1.2	1.6	1.3	1.2	.7	1.1	1	1.6	1.5	.7	.3	-.4	.2	.3	n=4		

P.F.E
(%)

	28+00 S	24+00 S	20+00 S	16+00 S	12+00 S	8+00 S	4+00 S	0+00	4+00 N	8+00 N	12+00 N	16+00 N	20+00 N	24+00 N	28+00 N	filter															
filter	7.7	4.9	4.7	5.4	6	5.8	7	5.6	6.1	9.7	11	13	14	16	14	7.9	4.2	3	2.8	3.7	6.5	3.6	3.8	2.5	1.1	-1.4	2.1	2.6	2.2	2.2	filter
n=1	10	5	5.7	7.1	8.9	8.3	11	8.2	8.5	14	12	17	12	19	19	8.4	3	3.4	2.5	3.3	11	2.3	3.5	1.9	3	-2.9	8.2	5.7	2.8	2.3	n=1
n=2	6.2	4.3	4.3	7.1	7	5.9	11	4	8.2	17	11	15	20	19	11	6.3	3	2.1	3	6	4.2	2.5	3.4	1.1	-2	-2.7	4.3	3.3	3	n=2	
n=3	5.4	4.3	4.3	5.5	2.7	5.5	5.4	-1.8	12	8.1	9.1	19	20	11	7.5	3.8	2.1	2.4	5.6	3.5	7.4	2.6	3.3	1.3	-2.6	-1.1	.5	1.2	n=3		
n=4	4.3	3.9	4	4.5	2.6	4.1	6.8	1.6	6	8.5	8.9	14	14	6.8	5.4	3.3	2.4	2.5	3.4	4	7.4	2.6	2.5	.9	-1.8	.9	1.5	n=4			

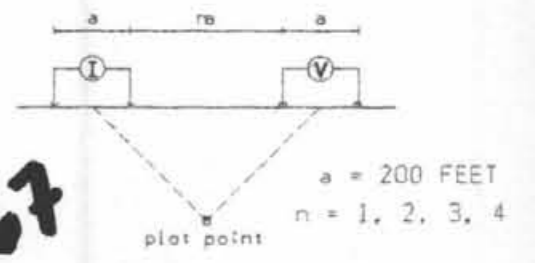
INTERPRETATION

METAL FACTOR
(ip/res * 1000)

20867

Line 600 E

Dipole-Dipole Array



Filtered Profiles

Resistivity filter *
Polarization **
Metal Factor ***

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10, ...

Instrument: McPHAR P660 Rx & Tx
Frequency: 0.3 & 5.0 Hz.
Operator: G.M..R.S.

INTERPRETATION

- Well defined, strong increase in polarization with or without marked decrease in resistivity.
- Fairly well defined moderate increase in polarization.
- Poorly defined polarization increase.
- Resistivity feature.

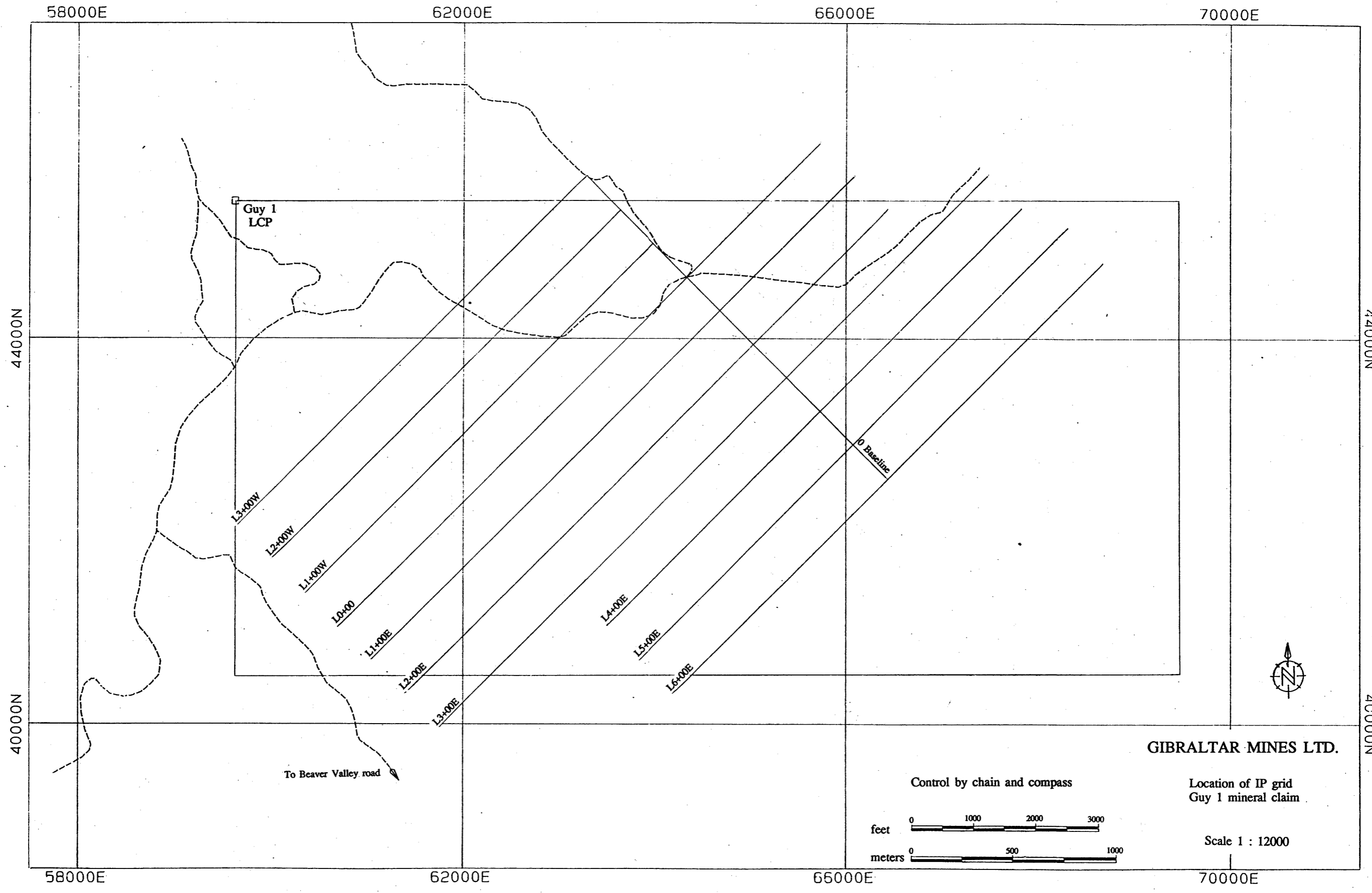
GIBRALTAR MINES LTD.

INDUCED POLARIZATION SURVEY

GUY # 1 CLAIM GRID
McLEESE LAKE AREA ; B.C.

Date: 90/11/07 N.T.S.: 93/B-8
Interpretation by:
Scale: 1 : 400

PETER E. WALCOTT & ASSOC. LTD.



58000E

62000E

66000E

70000E

44000N

44000N

40000N

40000N

Guy 1
LCP

L3+00W

L2+00W

L1+00W

L0+00

L1+00E

L2+00E

L3+00E

L4+00E

L5+00E

L6+00E

0 Baseline

To Beaver Valley road

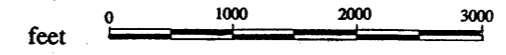


GIBRALTAR MINES LTD.

Location of IP grid
Guy 1 mineral claim

Scale 1 : 12000

Control by chain and compass

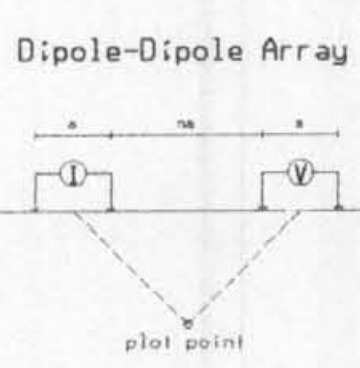
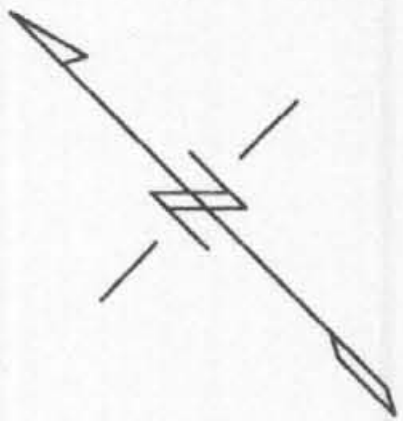


58000E

62000E

66000E

70000E



GIBRALTAR MINES LTD.

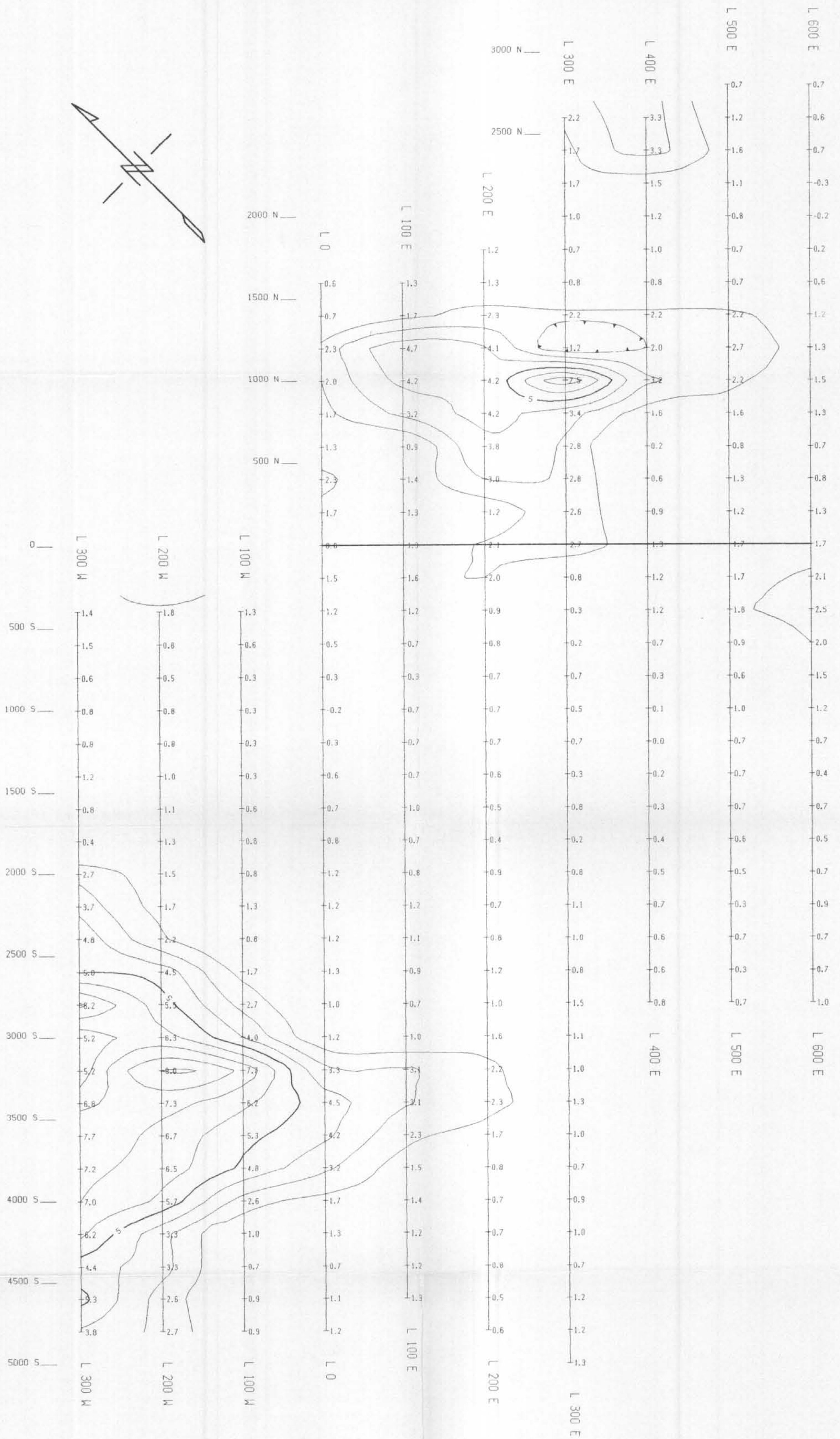
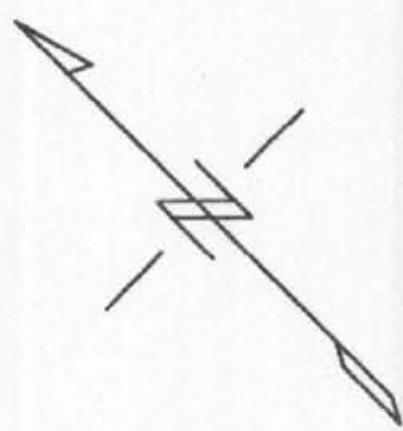
INDUCED POLARIZATION SURVEY

Dipole-Dipole Array - $a=200$ Feet

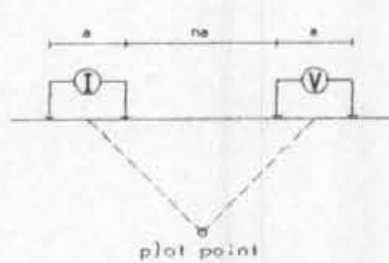
1st Separation Frequency Effect Contours

GUY # 1 PROPERTY
 CARIBOO M.D., B.C.
 OCTOBER-1990 Scale 1 INCH = 400 FEET

Map No. H-483-1 Peter E. Walcott & Assoc. Ltd.



Dipole-Dipole Array



GIBRALTAR MINES LTD.

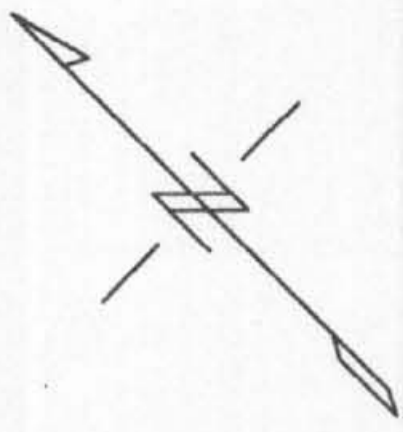
INDUCED POLARIZATION SURVEY

Dipole-Dipole Array - $a=200$ Feet
 2nd Separation Frequency Effect Contours

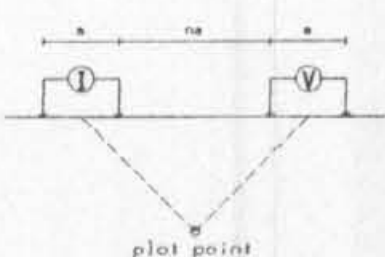
GUY # 1 PROPERTY
 CARIBOO M.D., B.C.
 OCTOBER-1990 Scale 1 INCH = 400 FEET

Map No. W-483-2

Peter E. Walcott & Assoc. Ltd.



Dipole-Dipole Array



GIBRALTAR MINES LTD.

INDUCED POLARIZATION SURVEY

Dipole-Dipole Array - a=200 Feet

10 POINT AVERAGE FREQUENCY EFFECT CONTOURS

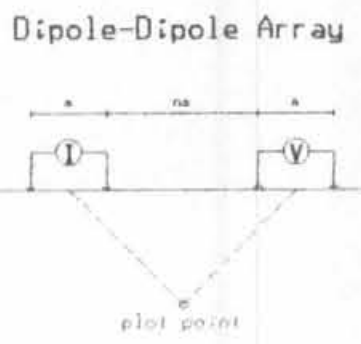
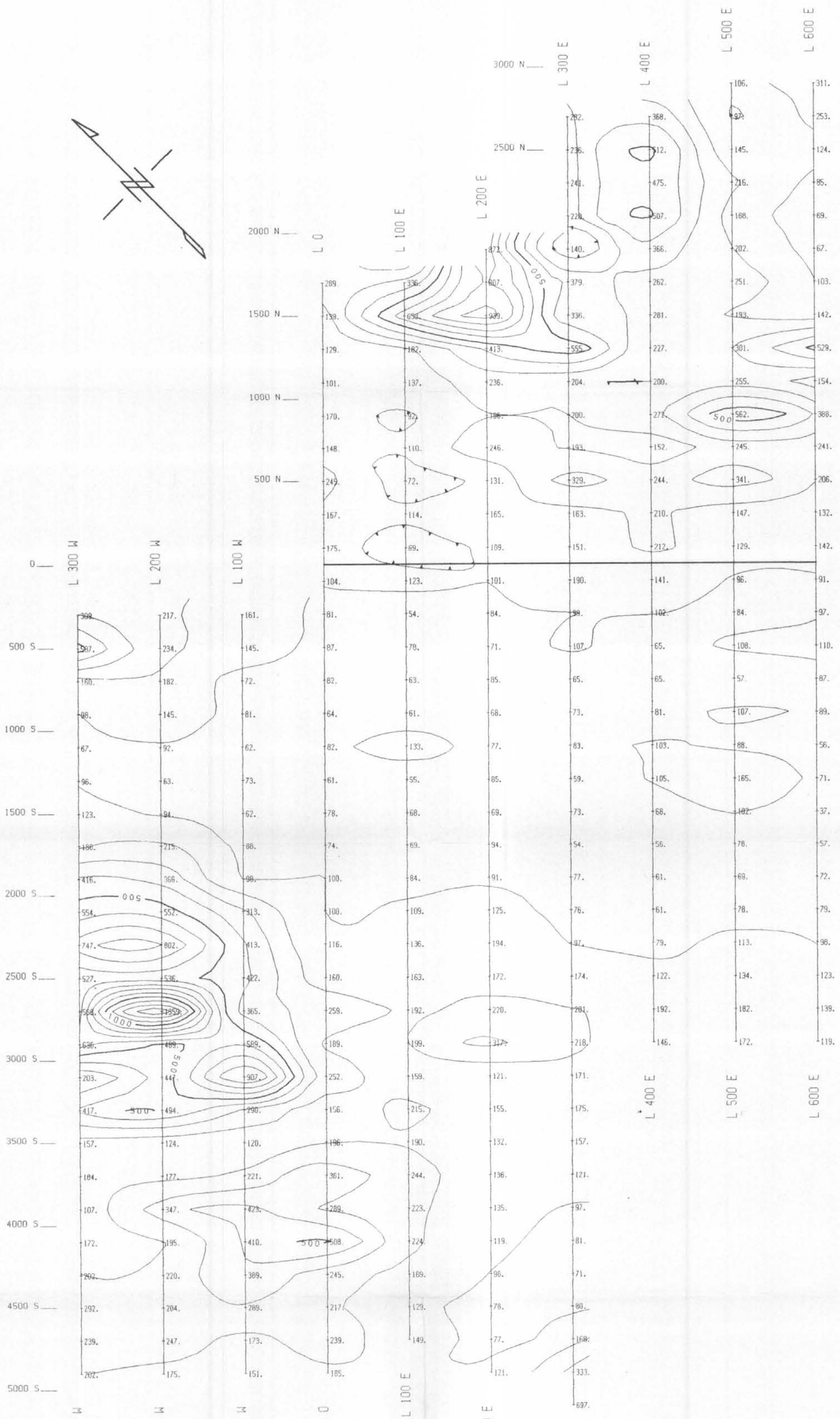
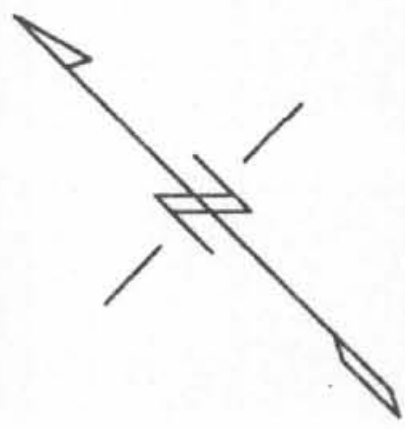
GUY # 1 PROPERTY
CARIBOO M.D., B.C.

OCTOBER-1990

Scale 1 INCH = 400 FEET

Map No. W-483-3

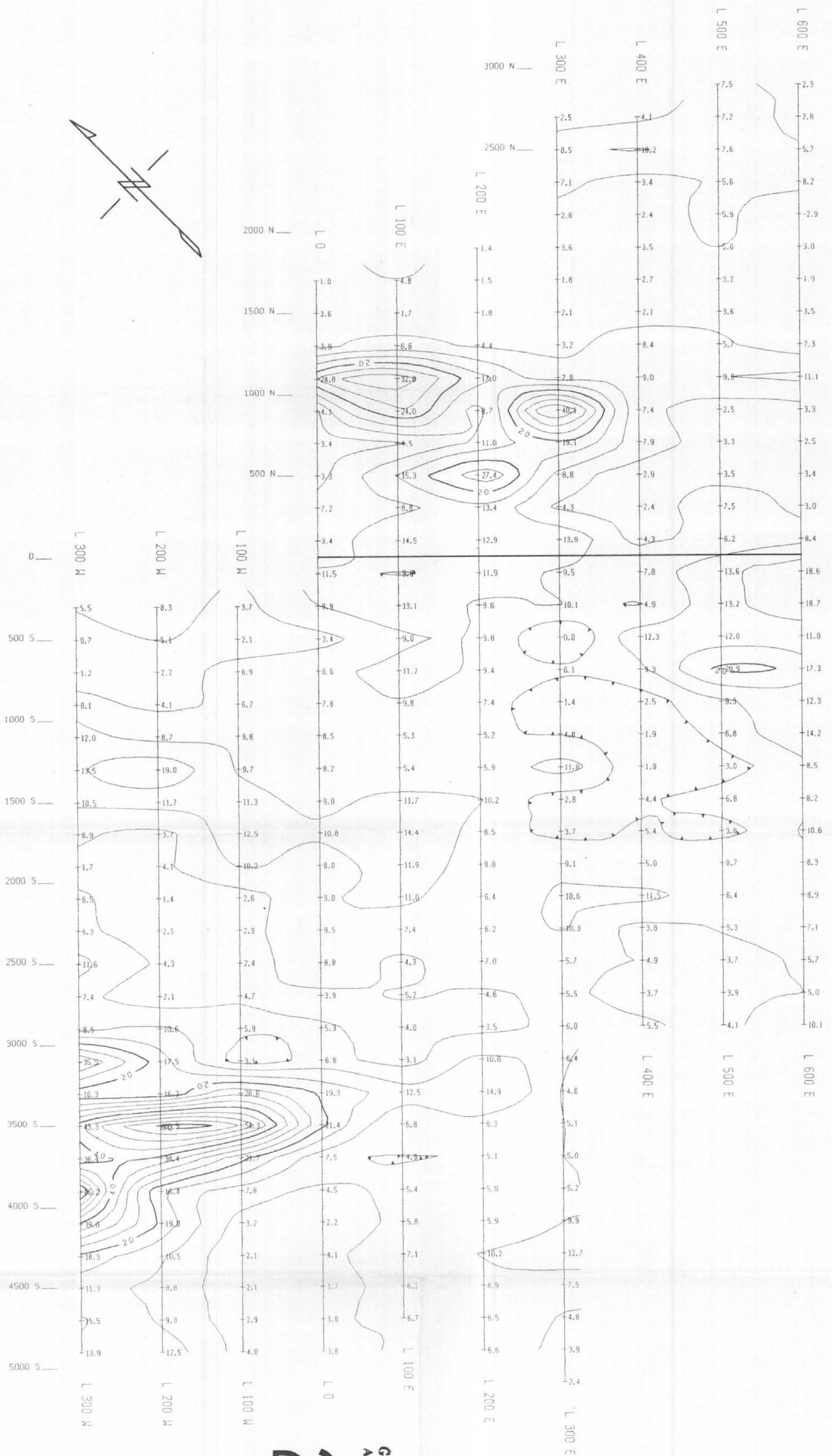
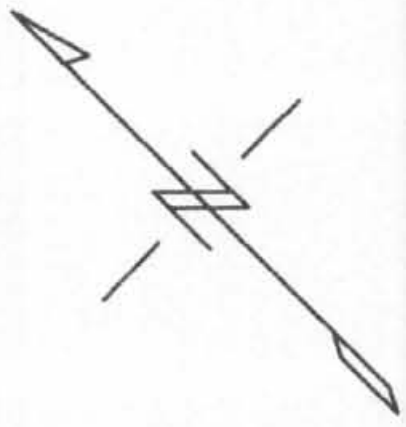
Peter E. Walcott & Assoc. Ltd.



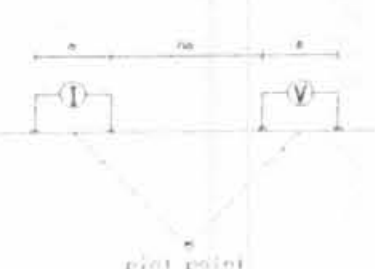
20,867

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

GIBRALTAR MINES LTD.	
INDUCED POLARIZATION SURVEY	
Dipole-Dipole Array - a=200 Feet	
1st Separation Resistivity Contours	
GUY # 1 PROPERTY CARIBBOO M.D., B.C. Scale 1 INCH = 400 FEET	
OCTOBER-1990	Peter E. Walcott & Assoc. Ltd.
Map No. W-483-4	



Dipole-Dipole Array



20,867

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

GIBRALTAR MINES LTD.

INDUCED POLARIZATION SURVEY

Dipole-Dipole Array - a=200 Feet

1st Separation Metal Factor Contours

GUY # 1 PROPERTY

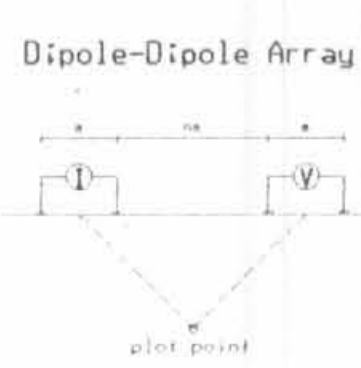
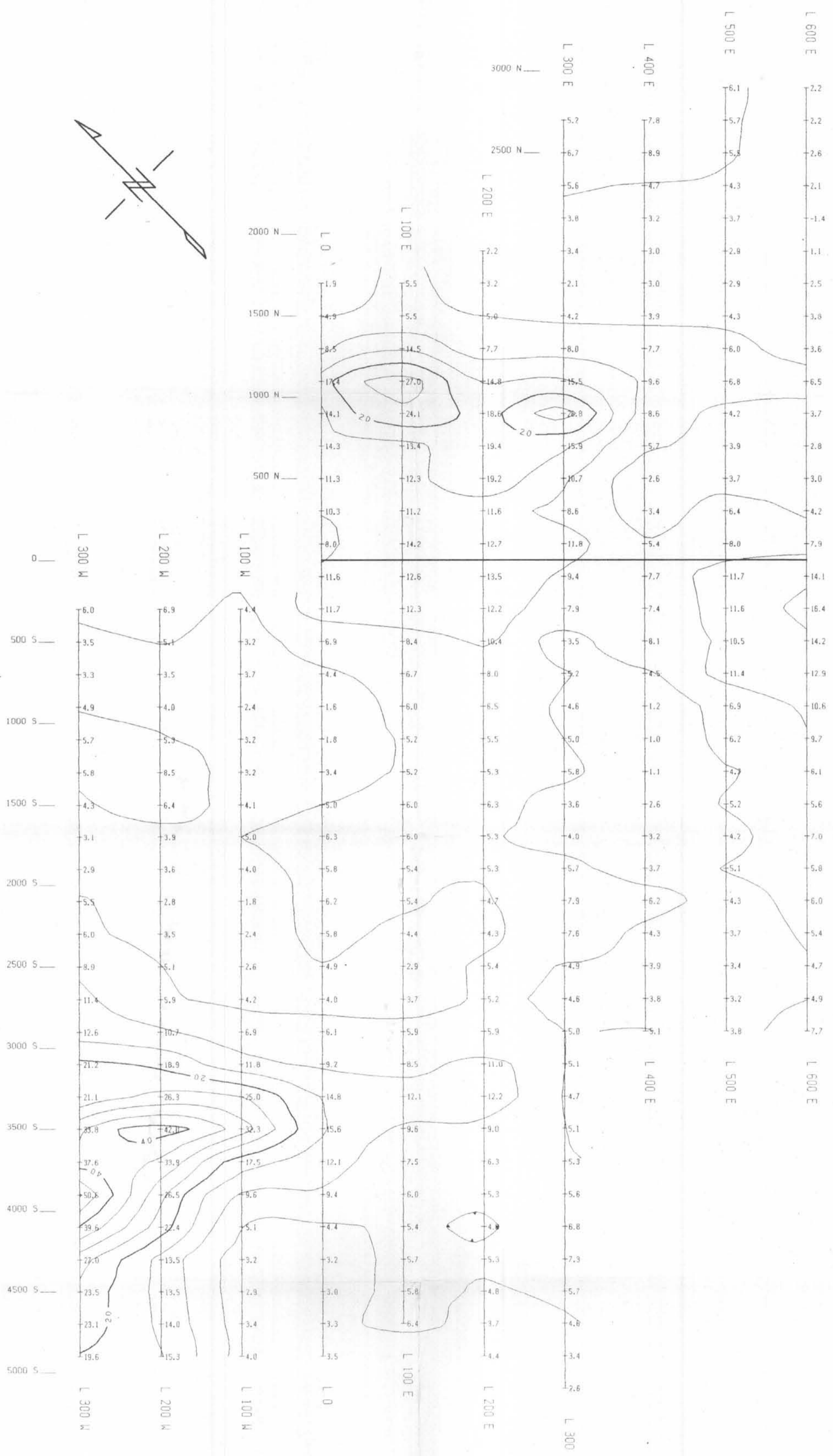
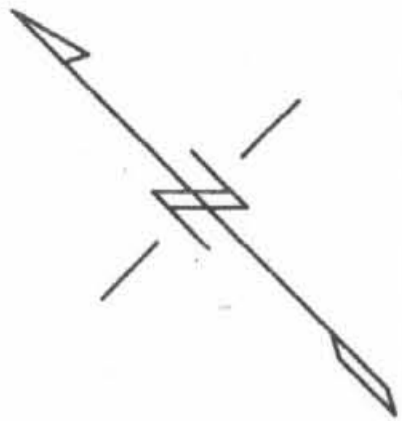
OCTOBER-1990

CARIBOO M.D., B.C.

Scale 1 INCH = 400 FEET

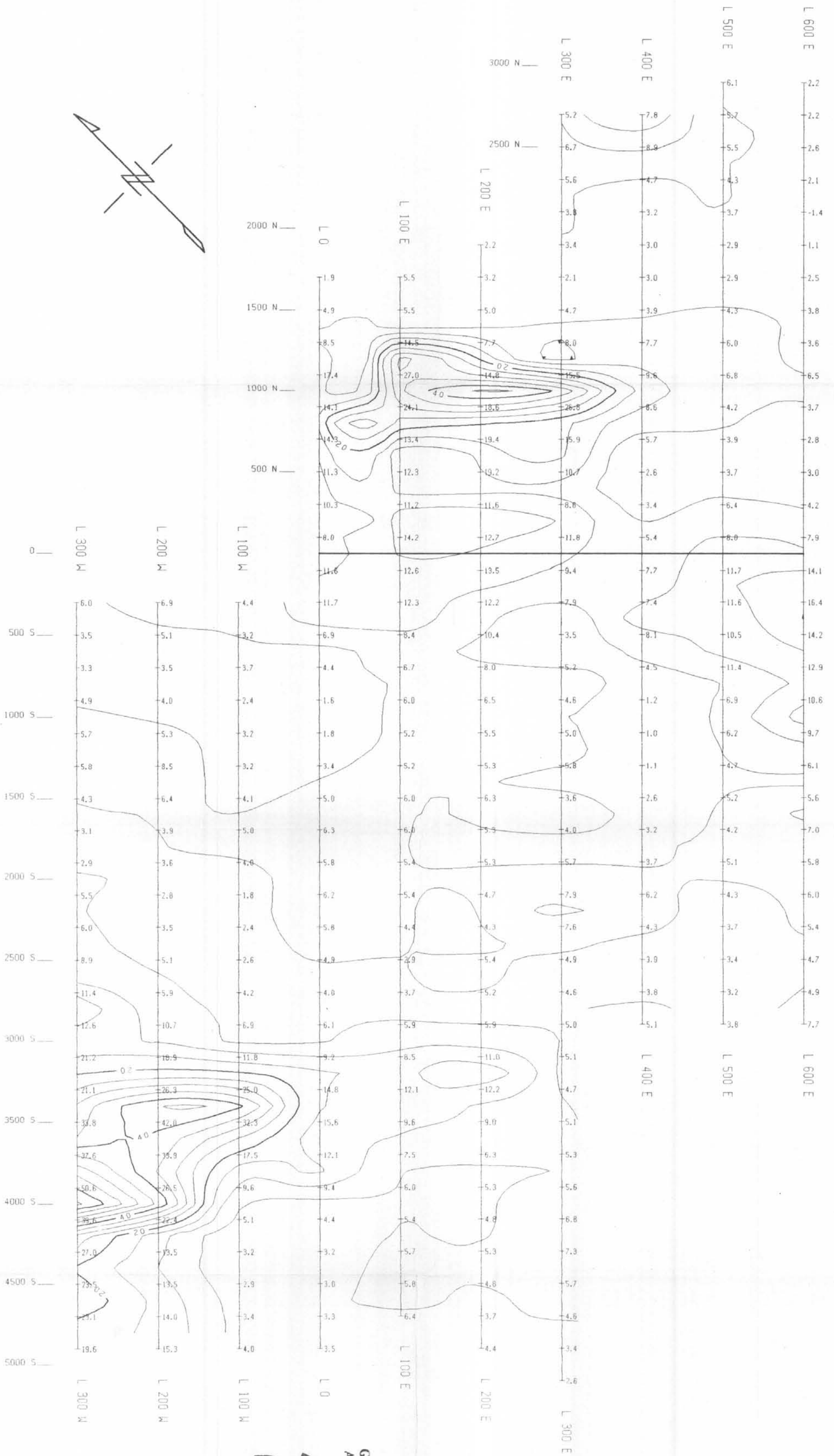
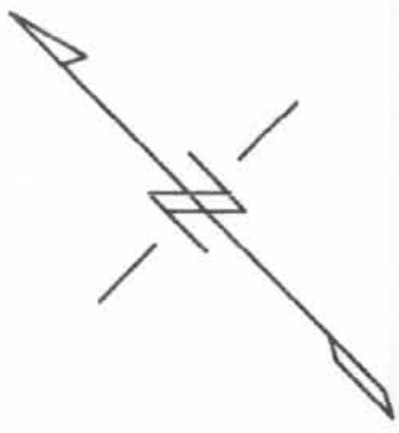
Map No. W-483-7

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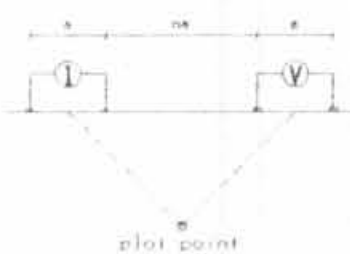


20,867
 GEOLOGICAL BRANCH
 ASSESSMENT REPORT

GIBRALTAR MINES LTD.	
INDUCED POLARIZATION SURVEY	
Dipole-Dipole Array - a=200 Feet	
10 POINT AVERAGE METAL FACTOR CONTOURS	
GUY # 1 PROPERTY CARIBOO M.D., B.C. OCTOBER-1990 Scale 1 INCH = 400 FEET	
Map No. W-483-9	Peter E. Walcott & Assoc. Ltd.



Dipole-Dipole Array



20,867

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

GIBRALTAR MINES LTD.

INDUCED POLARIZATION SURVEY

Dipole-Dipole Array - a=200 Feet

2nd Separation Metal Factor Contours

GUY # 1 PROPERTY
CARIBOO M.D., B.C.
OCTOBER-1990 Scale 1 INCH = 400 FEET

Map No. W-483-8

Peter E. Walcott & Assoc. Ltd.