

84-1195-12906

Geophysical Report

- on the -

Big P Group

Vernon Mining Division, British Columbia
N.T.S. 82E/15E, 16W

49° 53'
118° 32'

- for -

Zalmac Mines Limited

P.O. Box 1027

Vernon, B. C.

Prepared by:

G. Belik and Associates Ltd

664 Sunvalley Drive

Kamloops, B. C.

Gary D. Belik, M.Sc.

December 8, 1984

GEOLOGICAL BRANCH
ASSESSMENT REPORT

12,906

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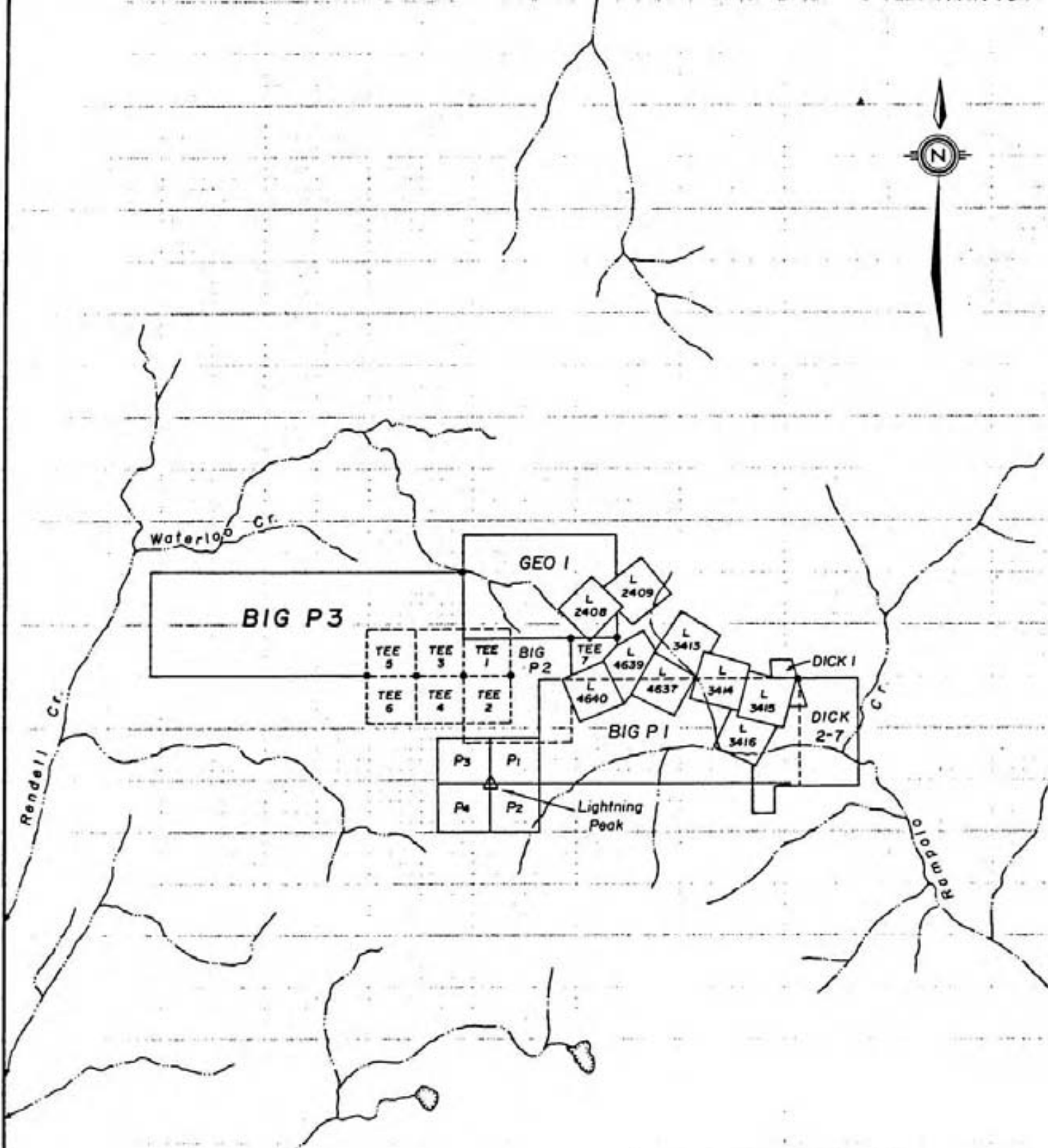
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G. D. Belik



ZALMAC MINES LTD.	
LOCATION MAP	
BIG P GROUP	
<i>G. Belik</i> VERNON MINING DIVISION, B. C.	
Technical Work by: G. Belik and Assoc. Ltd.	Date: Nov., 1984.
Scale: 1cm. = 87km.	Dwg No. 1038-1



ZALMAC MINES LTD	
CLAIM MAP	
BIG P GROUP	
<i>Shaw & Bell</i>	
VERNON MINING DIVISION, B. C.	
Tech Work By: G. Belik and Assoc Ltd.	Scale: 1:50,000
Drawn By: W. G.	Date: Nov., 1984.
Approved By: G. B.	Fig. No. 1038-2

NTS. No. 82 E/15E, 16W

To accompany a report by G. Belik, M.Sc.

INTRODUCTION

This report presents the results of V.L.F.-Electromagnetic and Induced Polarization/Resistivity surveys carried out during October 17-25, 1984, over parts of the Big P1-3 and Tee 1-6 mineral claims situated near Lightning Peak in the Vernon Mining Division, south-central British Columbia. Field work was carried out by G. Belik & Associates Ltd., Kamloops, B. C., under the supervision of G. D. Belik, M.Sc.

CLAIMS

The Big P1-3 and Tee 1-6 claims form part of the Big P Group, a claim block consisting of 5 contiguous MGS claims totalling 39 units and 6 2-post claims as detailed below:

<u>Mining Division</u>	<u>Claim Name</u>	<u>Units</u>	<u>Record No.</u>	<u>Record Date</u>
Vernon	Dick 1	1	671	August, 1979
Vernon	Dick 2-7	6	891	July, 1980
Vernon	Big P1	10	955	November, 1980
Vernon	Big P2	4	956	November, 1980
Vernon	Big P3	12	957	November, 1980

Vernon	Tee 1	2-post	1877	October, 1984
Vernon	Tee 2	2-post	1878	October, 1984
Vernon	Tee 3	2-post	1879	October, 1984
Vernon	Tee 4	2-post	1880	October, 1984
Vernon	Tee 5	2-post	1881	October, 1984
Vernon	Tee 6	2-post	1882	October, 1984

The registered owner of the above claims is Zalmac Mines Ltd., P.O. Box 1027, Vernon, B. C.

LOCATION AND ACCESSIBILITY

The Big P claim group is located in the Vernon Mining Division, southcentral British Columbia (N.T.S. 82E/15E, 16W). The center of the property is situated about 70 km southeast of the city of Vernon at geographic co-ordinates $49^{\circ} 53'$ North Latitude and $118^{\circ} 32'$ West Longitude.

The property can be reached by travelling east from Vernon along highway 6 for about 80 km and thence southerly along the Kettle River road. At K62 on the Kettle River road, a secondary logging road is then followed southeast across Winnifred Creek, up over a divide into the Lightning Peak area. The final segment of road, which is rough, extends southerly to Lightning Peak, through the central part of the claim area.

PHYSIOGRAPHY AND VEGETATION

The claim area is situated on the southwest flank of the Monashee Mountains near the north end of the Midway Range. The claim area extends across a plateau-like area centered between Rampalo Creek to the east and Rendell Creek to the west. Lightning Peak, the highest point in the vicinity of the claims attains an elevation of 2,139 meters.

Elevation of the claim area ranges from about 1500 meters a.s.l. to about 2000 meters a.s.l. The central part of the claim area is characterized by areas of gentle to moderate relief with thick overburden and few bedrock exposures. Relief in the western part of the claim area, adjacent to Rendell Creek and the eastern part of the claim area, adjacent to Rampalo Creek is moderate to steep with local cliffs and rocky bluffs.

Below 1800 meters a.s.l. thick stands of mature balsam, spruce, fir and cedar with heavy underbrush predominate. Above 1800 meters a.s.l. forest cover is lighter and above 2,000 meters a.s.l. alpine-type vegetation prevails.

GENERAL GEOLOGICAL SETTING

The claim area straddles the contact between a pendant of Anarchist Group Metavolcanics and Metasediments to the north and Nelson and Valhalla granites to the south. Outcrop within the area of the claims is scarce with large areas totally concealed by overburden.

Numerous small silver-bearing and locally gold-bearing, polymetallic quartz veins and shear zones are evident within the pendant area. Most of these occurrences are described by C. E. Cairnes in G.S.C. Summary Report 1930, Part A, pp. 79A-115A. Briefly summarized the showings are of two general types which include a) sulphide-quartz-carbonate lenses within strong east-west shear zones, and b) steeply dipping, northerly trending quartz veins.

The only known mineralization within the area of the subject claims is the Lumpy showing. This prospect, which is situated in the northcentral part of the Big P2 claim, was explored by three short adits and a few shallow surface cuts between 1908 and 1910. This work exposed a pyritic, partly sili-

cified limestone which locally contains very narrow seams and blebs of sphalerite and galena with high silver + gold values.

GRID PREPARATION

In order to provide control for the geophysical surveys, a grid was constructed consisting of 2 east-west base-lines and 17 north-south cross-lines spaced at 200-meter intervals. Grid lines were blazed and marked with orange flagging with stations at 50-meter intervals identified by yellow and orange flagging marked with the line number and station location.

In total 18.0 km of grid was constructed during the 1984 program.

V.L.F. ELECTROMAGNETIC SURVEY

The electromagnetic survey was carried out utilizing a Saber Model 27 VLF-E.M. receiver manufactured by Saber Electronic Instruments Ltd., 4245 East Hastings Street, Vancouver, B. C. This instrument measures the relative strength and dip of electromagnetic

fields transmitted by radio stations in the 15-25 KH_z range. These 'primary fields' are horizontal but can be disrupted by the presence of electrical conductors and by local topographic relief. Disruptions caused by conductors are actually caused by 'secondary fields' which are induced by the primary field. The tilt of the secondary field can be obtained by measuring the angle of null (minimum signal) in a vertical plane, normal to the wave front of the primary field.

The relative strength and magnitude of the secondary field caused by a conductor can be affected by many factors which include:

1. Conductivity of the conductor
2. Width of the conductor
3. Length of the conductor
4. Depth of the conductor
5. Orientation of the conductor relative to the transmitter station
6. Frequency of the transmitter

For tabular elongate bodies maximum coupling and hence the strongest secondary electromagnetic field is obtained when the conductor is aligned normal to the primary wave (ie. conductor points to the trans-

mitting station). There is virtually no coupling when conductors are aligned parallel to the primary field.

Local topographic relief can also cause a tilting of the primary field and lead to anomalous responses along ridge crests or along a sharp break-in-slope. In theory topographic anomalies can be eliminated by a lack of a corresponding increase in field strength values which generally are associated with bedrock conductors. However, this is not always the case and care must be taken when interpreting V.L.F. anomalies within areas of moderate to steep topographic relief.

For this survey the transmitting station utilized is located at Annapolis, Maryland (21.4 KH_2). Readings were taken at 25-meter intervals along all north-south lines. In total 14.85 km of grid was surveyed.

Presentation of Results

The dip angles and relative field strength values obtained during the survey are listed in Appendix I. Drawing 1038-3 is a contour map of the filtered dip angles and shows definite (solid), probable (long dash) and possible (short dash) conductor axes.

The filtering technique utilized was developed by D. C. Fraser (Geophysic, V.34, No. 6, P. 958-967; 1969). Briefly summarized, this technique converts anomalous cross-overs and inflections into positive values by a simple mathematical treatment of the dip angle data. This technique overcomes the difficulty, in many cases, of interpreting profiles and enables the data to be plotted in plan form with conductor areas defined by contours.

Discussion of Results

Numerous anomalies were defined within the survey area. Based on the general magnitude of anomalous inflections and on corresponding field strength values conductors have been categorized as definite, probable and possible. Anomalies which appear to be caused solely by changes in topography are indicated as such on Map 1038-3.

The source of the conductors identified within the area surveyed has not been established. Outcrop is scarce with large areas totally concealed by overburden. A few outcrops of pendant are evident along the 4+00S base line between 2+00E and 4+00E, near the

north end of 4+00W and 6+00W and along the south ends of lines 6+00W to 12+00W. Granitic rocks of the Nelson Batholith are exposed in cliffs and bluffs along the south ends of lines 8+00E to 14+00E.

Most of the conductors have a general east-west trend which is parallel to the shear direction which hosts most of the mineralization in the Lightning Peak area. This suggests that some of the conductors may reflect similar mineralized structures.

INDUCED POLARIZATION RESISTIVITY SURVEY

An Induced Polarization/Resistivity test was carried out on line 2+00W to determine the effectiveness of this technique in evaluating conductors identified by the V.L.F.-E.M. survey. Two set-ups were completed; one over a strong conductor centered at 1+60N and another over a moderate conductor centered at 3+00S. The survey was carried out utilizing variable frequency I.P. equipment manufactured by Sabre Electronic Instruments Ltd., 4245 East Hastings Street, Vancouver, B. C.

The theory of Induced Polarization as applied in

mining exploration is fully described in the literature. Briefly summarized, this phenomenon refers to the blocking action or capacitive-like effect of electronic conducting minerals* in rock through which an electrical current is being passed. This blocking action creates a resistance to current flow which increases with the length of time that a d.c. current is allowed to flow. Thus, assuming that appreciable conducting minerals are present, it can be seen that by varying the frequency of the transmitted current (ie. varying the length of time that current is allowed to flow in any one direction) the apparent resistivity of the rock mass being tested will change. The percent change in apparent resistivity when measured at two frequencies is recorded as Percent Frequency Effect or P.F.E. For this survey frequencies of 10H_2 and 0.3H_2 were utilized.

Method

A dipole-dipole electrode configuration was employed with an electrode separation of 25 meters. Readings were taken every 25 meters to $n=4$ (ie. 25m, 50m, 75m and 100 meter separation between current electrodes and potential electrodes).

*includes most metallic sulphides, graphite, magnetite and some varieties of hematite.

Presentation of Results

In this report the results of the Induced Polarization and Resistivity Survey are presented and contoured in profile form (Figure 1038-4) at a scale of 1:1,250.

On the section map, percent frequency effect values are plotted on the top line of the data profile above resistivity values. On the third line, below the resistivity values are plotted metal factors (Metal Factor = $\frac{F.E. \times 1000}{\text{Resistivity}}$). Values are plotted midpoint between the locations of current and potential electrodes.

The separation between current and potential electrodes is only one factor which determines the depth of penetration at any one set up. Thus, while the section maps illustrate in a general way changes in frequency effect and apparent resistivity with depth this relationship is one-linear and may vary significantly depending on the resistivity of the ground being tested and the dipole separation utilized. As a general rule the depth of penetration is between 0.5 and 1.0 times the electrode spread for the first

separation ($n= 1$) and diminishes for successively greater separations.

In some situations the measured voltage at the low frequency setting ($0.3H_z$) is too noisy to render a reliable F.E. reading. In this situation the symbol N/R is recorded on the data plot. A data plot followed by the symbol (N) indicates that the reading was noisy but considered reliable. Occasionally negative F.E. values are recorded (indicated in brackets () on the Data Plot). Small negative F.E. values fall within the range of instrument and/or operator error when little polarizable material is present within the groundmass being tested. Larger negative values may be a result of spurious electrical effects or unusual geological conditions.

Discussion of Results

Apparent resistivities within the area surveyed are low and range from 15 ohm-meters to 272 ohm-meters. Frequency effects range from 0 percent to 8.0 percent.

Three main anomalous zones were identified which correlate well with conductive zones previously identified by the V.L.F.-E.M. survey.

North Anomaly

On line 2+00W a definite I.P. anomaly was defined centered at about 1+50N. The anomaly is associated with a zone of lower resistivity which appears to be between one and two dipoles wide (ie. apparent width of 25m-50m). A pronounced increase in F.E. values at $n=3$ and $n=4$ suggests that the zone strengthens at depth.

Central Anomaly

A zone of moderate to strong F.E. values was partly delineated south of 0+75N. This anomaly probably is associated with a V.L.F. conductor centered at 0+30N.

South Anomaly

A pronounced resistivity low, associated with a distinct zone of weakly anomalous F.E. values was defined on line 2+00W, centered at about 3+00S. The anomalous zone correlates well with a V.L.F. conductor which strengthens to the east and west of line 2+00W. A progressive increase in F.E. values for successively greater separations suggests that on line 2+00W the zone strengthens with depth.

CONCLUSIONS AND RECOMMENDATIONS

The V.L.F. Electromagnetic survey has identified numerous conductors within the Big P claim group. A preliminary I.P. test has demonstrated that segments of at least 3 of the conductors are associated with weak to strongly polarizable zones which could reflect significant sulphide mineralization. In view of this and in view of the apparent east-west trend of most of the conductors, which is parallel to the strike of shear zones which host the main polymetallic, silver-rich deposits in the Lightning Peak area, the Big P claim group is viewed as having a good exploration potential. Further work is warranted.

Additional I.P. is recommended in order to further evaluate conductors identified by the 1984 programs. Priority targets should then be tested by trenching. If significant mineralization is encountered in the trenching program a diamond drill program should then be considered.

Respectfully Submitted,



G. D. Belik, M.Sc.

Kamloops, B. C.
December 8, 1984

APPENDIX I

V.L.F.-Electromagnetic Data

VLF - EM SURVEY

PROJECT RIG P PAGE 1

GRID _____ DATE _____

LINE 18100W OPERATOR G.B.SOURCE STATION ANNAPOLIS

STATION	IN PHASE	FRASER FILTER	REMARKS
10000N	67 +6	12	
	60 +6	12 3	
	55 +6	7 -	
	60 +3	15 -	
9100N	56 +12	21 -	
	62 +7	17 9	
	62 +8	12 5	X POSSIBLE
	58 +4	12 -	
8100N	56 +8	24 -	
	55 +16	28 8	
	62 +12	16 22	X PROBABLE
	63 +4	6 13	
7100N	60 +2	3 2	
	62 +1	4 -	
	58 +3	6 -	
	61 +3	6 -	
6100N	57 +3	10 -	
	54 +7	18 -	
	55 +11	23 -	
	57 +12	21 2	
5100N	57 +7	21 2	

VLF - EM SURVEY

PROJECT RIG P PAGE 5

GRID _____ DATE _____

LINE 14100W OPERATOR G.B.SOURCE STATION ANNAPOLIS

STATION	IN PHASE	FRASER FILTER	REMARKS
10100N	44 +5	16	
	73 +11	3 -	
	50 +20	37 2	
	52 +17	27 16	
9100N	60 +12	19 23	X DEFINITE
	63 +7	6 16	
	55 -1	3 0	
	55 +4	6 -	
8100N	55 +2	8 -	
	55 +6	8 -	
	52 +2	11 -	
	45 +9	23 -	
7100N	47 +14	31 -	
	50 +17	36 -	
	58 +17	33 12	
	69 +14	24 17	
6100N	72 +10	14 24	X DEFINITE
	75 +4	0 33	
	77 -4	-19 26	
	63 -15	-26 1	
5100N	57 -10	-20 -	

VLF - EM SURVEY

PROJECT RIG P PAGE 3

GRID _____ DATE _____

LINE 16100W OPERATOR G.B.SOURCE STATION ANNAPOLIS

STATION	IN PHASE	FRASER FILTER	REMARKS
10100N	55 +9	17	
	59 +8	19 -	
	52 +11	23 -	
	53 +12	27 -	
9100N	57 +15	25 12	X DEFINITE
	60 +10	15 19	
	62 +5	6 10	
	60 +1	5 -	
8100N	53 +4	13 -	
	51 +9	19 -	
	56 +10	20 -	
	57 +10	21 -	
7100N	58 +11	27 -	
	60 +16	31 2	
	65 +15	25 19	
	76 +10	12 -28	X DEFINITE
6100N	82 +2	-3 21	
	70 -5	-9 2	
	60 -4	-5 -	
	58 -1	0 -	
5100N	58 +1	1 0	

VLF - EM SURVEY

PROJECT RIG P PAGE 7

GRID _____ DATE _____

LINE 12100W OPERATOR G.B.SOURCE STATION ANNAPOLIS

STATION	IN PHASE	FRASER FILTER	REMARKS
10100N	47 -1	-3	
	45 -2	3 -	
	43 +5	16 -	
	42 +11	25 -	
9100N	50 +14	25 -	
	50 +9	26 -	
	42 +17	36 -	
	56 +19	31 10	
8100N	58 +12	26 4	X POSSIBLE
	55 +14	27 -	
	52 +13	27 -	
	52 +14	31 -	
7100N	58 +17	36 -	
	60 +19	33 12	
	60 +14	24 13	X PROBABLE
	62 +10	20 6	
6100N	62 +10	19 6	
	62 +8	14 7	
	58 +6	11 2	
	58 +5	12 -	
5100N	54 +7	17 -	

VLF - EM SURVEY

PROJECT BIG P PAGE 2

GRID _____ DATE _____

LINE 18700 W OPERATOR G.B.

SOURCE STATION ANNAPOLIS

STATION	IN PHASE	FRASER FILTER		REMARKS
		FRASER FILTER	FRASER FILTER	
60	+12	19	8	
60	+17	13	6	
62	+16	13	-	
4400W	56	+7	16	-
61	+7	17	2	
63	+18	14	5	
68	+6	12	7	
3100W	69	+16	7	10
65	+1	2	7	X PROBABLE
64	+1	0	7	
65	-1	-5	10	
2400W	63	-4	-10	12
62	-6	-17	10	X PROBABLE
58	+11	-20	-	
51	-9	-12	-	
1100W	44	-3	-7	-
46	-4	-5	-	
45	-1	0	-	
46	+1	0	-	
0100	48	+5	0	

VLF - EM SURVEY

PROJECT BIG P PAGE 6

GRID _____ DATE _____

LINE 14700 W OPERATOR G.B.

SOURCE STATION ANNAPOLIS

STATION	IN PHASE	FRASER FILTER		REMARKS
		FRASER FILTER	FRASER FILTER	
47	-10	-16	-	
50	-6	-7	-	
48	-3	-1	-	
4400W	47	+2	7	-
42	+7	12	-	
48	+5	13	-	
47	+8	24	-	
3100W	53	+16	33	-
54	+17	32	5	
62	+15	25	12	X POSSIBLE
64	+10	20	-	
2400W	67	+10	26	0
67	+16	20	19	
78	+4	7	18	
72	+3	2	19	X DEFINITE
1100W	75	-1	-12	21
68	-11	-19	3	
62	-8	-15	-	
60	-7	-13	-	
0100	50	-6	-	

VLF - EM SURVEY

PROJECT BIG P PAGE 4

GRID _____ DATE _____

LINE 16700 W OPERATOR G.B.

SOURCE STATION ANNAPOLIS

STATION	IN PHASE	FRASER FILTER		REMARKS
		FRASER FILTER	FRASER FILTER	
58	0	0	1	
59	0	0	-	
55	0	1	-	
4100W	55	+1	5	-
53	+4	10	-	
55	+6	15	-	
60	+9	17	-	
3100W	64	+10	18	10
75	+8	9	21	X DEFINITE
82	+1	-3	16	
71	-4	-7	1	
2400W	66	-3	-4	-
64	-1	-5	0	
67	-4	-4	0	
68	0	-5	6	
1100W	67	-5	-10	4
65	-5	-7	-	X POSSIBLE
64	-4	-7	0	
64	-5	-7	0	
0100	61	-4	-	

VLF - EM SURVEY

PROJECT BIG P PAGE 8

GRID _____ DATE _____

LINE 12700 W OPERATOR G.B.

SOURCE STATION ANNAPOLIS

STATION	IN PHASE	FRASER FILTER		REMARKS
		FRASER FILTER	FRASER FILTER	
55	+10	15	5	
60	+5	12	-	
53	+7	16	-	
4100W	55	+9	18	-
51	+9	22	-	
56	+13	28	-	
57	+15	27	4	
3100W	60	+12	24	7
65	+12	18	14	
65	+6	10	13	X PROBABLE
63	+4	5	5	
2400W	61	+1	5	-
59	+4	9	-	
60	+5	8	-	
60	+6	16	-	
1100W	60	+10	14	12
70	+4	4	11	X PROBABLE
58	0	3	-	
55	+3	8	-	
0100	52	+5	13	-
50	+8	19	-	

VLF - EM SURVEY

PROJECT BIG P PAGE 9

GRID _____ DATE _____

LINE L 12700 W OPERATOR G.B.SOURCE STATION ANNAPOLIS

STATION	OUT PHASE	IN PHASE	FRASER FILTER		REMARKS
			TO	FROM	
	50	+11	19	6	
	58	+8	13	14	X POSSIBLE
1100S	53	+5	5	12	
	53	0	1	1	
	54	+1	4	-	
	52	+3	7	-	
2100S	48	+4	8	-	
	50	+4	11	-	
	47	+7	15	-	
	47	+8	18	-	
3100S	52	+10	20	0	
	52	+10	18	8	X POSSIBLE
	58	+8	12	9	
	56	+4	9		
4100S	55	+5			

VLF - EM SURVEY

PROJECT BIG P PAGE 10

GRID _____ DATE _____

LINE 10100 W OPERATOR G.B.SOURCE STATION ANNAPOLIS

STATION	OUT PHASE	IN PHASE	FRASER FILTER		REMARKS
			TO	FROM	
4150N	72	+14	24		X PROBABLE
	71	+10	17	7	
	65	+7	17	-	
4100N	63	+10	17	-	
	64	+9	18	1	
	65	+9	18	5	X POSSIBLE
	63	+9	13	7	
3100N	66	+4	11	1	
	63	+7	12	0	
	62	+5	11	-	
	61	+6	17	-	
2100N	60	+11	20	-	
	65	+9	20	0	
	65	+11	20	0	
	67	+9	20	8	
1100N	70	+11	12	18	X DEFINITE
	77	+1	2	11	
	68	+1	1	4	
	66	+0	-2	7	X POSSIBLE
0100	60	-2	-2	5	
	60	-4	-7	-	
	58	-3	-3	-	

VLF - EM SURVEY

PROJECT BIG P PAGE 12

GRID _____ DATE _____

LINE 8100 W OPERATOR G.B.SOURCE STATION ANNAPOLIS

STATION	OUT PHASE	IN PHASE	FRASER FILTER		REMARKS
			TO	FROM	
4150N	63	+23	43	12	
	74	+18	31	16	X DEFINITE
4100N	70	+13	25	8	
	68	+12	23	4	
	67	+11	21	-	
	69	+10	26	-	
3100N	68	+16	29	7	
	76	+13	19	23	X DEFINITE
	77	+6	6	22	
	68	0	-3	10	
2100N	62	-3	-4	0	
	60	-1	3	-	
	59	+4	9	-	
	58	+5	9	1	
1100N	59	+4	8	2	
	60	+4	7	1	
	60	+3	7	-	
	57	+4	8	-	
0100	58	+4	9	-	
	56	+5	10	-	
	57	+5	15	-	

VLF - EM SURVEY

PROJECT BIG P PAGE 14

GRID _____ DATE _____

LINE 6100 W OPERATOR G.B.SOURCE STATION ANNAPOLIS

STATION	OUT PHASE	IN PHASE	FRASER FILTER		REMARKS
			TO	FROM	
4100N	72	+17	24	8	
	74	+8	12	22	X DEFINITE
	76	+4	2	14	
	70	-2	-2	0	
	63	0	2	-	
3100N	62	+2	6	-	
	65	+4	6	6	
	67	+2	0	7	X POSSIBLE
	62	-2	-1	-	
2100N	55	+1	7	-	
	57	+6	16	-	
	60	+10	18	5	
	67	+8	11	13	X PROBABLE
1100N	67	+3	5	8	
	65	+2	3	0	
	58	+1	5	-	
	60	+4	8	-	
0100	62	+4	7	1	
	56	+3	7	-	
	58	+4	8	-	
	53	+4	10	-	
1100S	54	+6	12	-	

VLF - EM SURVEY

PROJECT BIG? PAGE 16

GRID _____ DATE _____

LINE 4100 W OPERATOR G.B.SOURCE STATION ANAPOUS

STATION	SOIL PHASE	IN PHASE	FRASER FILTER	REMARKS
4100N	52	0	3	
	50	+3	7	
	55	+4	8	
	53	+4	7	
3000N	52	+5	11	
	53	+6	14	
	52	+8	16	
	50	+8	20	
2000N	52	+12	19	7
	57	+7	13	4
	53	+6	15	-
	53	+9	18	-
1000N	52	+9	24	-
	62	+15	23	12
	69	+8	12	18
	68	+4	5	11
0100	62	+1	1	6
	60	0	-1	3
	57	-1	-4	5
	57	-3	-6	4
1000S	49	-3	-8	5

X POSSIBLE

X DEFINITE

VLF - EM SURVEY

PROJECT BIG? PAGE 18

GRID _____ DATE _____

LINE 2100 W OPERATOR G.B.SOURCE STATION ANAPOUS

STATION	SOIL PHASE	IN PHASE	FRASER FILTER	REMARKS
4100N	52	0	0	
	53	0	2	
	50	+2	4	
	52	+2	5	
3000N	50	+3	5	2
	52	+2	3	
	50	+1	8	
	49	+7	17	
2100N	48	+10	21	
	53	+11	18	17
	60	+7	4	21
	58	-3	-3	0
1100N	57	0	4	-
	58	+4	8	2
	62	+4	2	10
	62	-2	-2	1
0100	58	0	1	-
	58	+1	0	3
	61	-1	-2	3
	54	-1	-3	1
1000S	55	-2	-3	-

F.S. 2360

X DEFINITE

X POSSIBLE

VLF - EM SURVEY

PROJECT BIG? PAGE 20

GRID _____ DATE _____

LINE 0100 OPERATOR G.B.SOURCE STATION ANAPOUS

STATION	SOIL PHASE	IN PHASE	FRASER FILTER	REMARKS
4100N	60	-1	0	
	60	+1	4	
	60	+3	6	
	60	+3	8	
3000N	60	+5	10	
	61	+5	11	
	61	+6	14	
	61	+8	15	2
2100N	63	+7	12	3
	65	+5	12	2
	63	+7	10	4
	66	+3	8	7
1100N	67	+5	3	11
	70	-2	-3	4
	60	-1	-1	-
	60	0	1	-
B.L.	58	+1	3	0
	63	+2	1	5
	61	-1	-2	2
	60	-1	-1	-
1100S	61	0	0	-

X PROBABLE

X POSSIBLE

VLF - EM SURVEY

PROJECT BIG? PAGE 22

GRID _____ DATE _____

LINE 0100 OPERATOR G.B.SOURCE STATION ANAPOUS

STATION	SOIL PHASE	IN PHASE	FRASER FILTER	REMARKS
	46	-11	-21	-
	42	-10	-20	-
2100S	40	-10	-19	-
	40	-9	-17	-
	40	-8	-16	-
	42	-8	-15	-
8100S	40	-7	-	-

VLF - EM SURVEY

PROJECT BGP PAGE 23

GRID _____ DATE _____

LINE 2100E OPERATOR G.B.SOURCE STATION Amurapits

STATION	OUT OF PHASE	IN PHASE	FRASER FILTER		REMARKS
	70	+1	5		
	72	+4			
1100S	77	-1	3	11	X PROBABLE
	77	-5	-6	16	
			-13	6	
	68	-8	-12	-	
	68	-4	-7	-	
2100S	70	-3	-4	-	
	68	-1	-2	-	
	78	-1	-7	14	
	77	-6	-16	15	
3100S	75	-10	-22	13	X DEFINITE
	77	-13	-29	14	
	77	-17	-36	9	
	65	-19	-38	-	
4100S	60	-19	-35	-	
	57	-16	-34	-	
	49	-18	-32	-	
	51	-14	-29	-	
5100S	51	-15	-30	2	
	50	-15	-31	1	
	44	-16	-31	-	
	42	-15	-27	-	

VLF - EM SURVEY

PROJECT BGP PAGE 25

GRID _____ DATE _____

LINE 4100E OPERATOR G.B.SOURCE STATION Amurapits

STATION	OUT OF PHASE	IN PHASE	FRASER FILTER		REMARKS
	76	-1	-1		
	77	0			
1100S	76	-3	-3	8	
			-9	9	
	77	-6	-12	1	
	78	-6	-10	1	
	77	-4	-13	12	
2100S	83	-9	-22	16	X DEFINITE
	75	-13	-29	8	
	75	-16	-30	-	
	68	-14	-28	-	
3100S	65	-14	-27	2	SEVERE SLOPE
	62	-15	-30	1	
	60	-15	-30	2	
	58	-15	-32	4	
4100S	57	-17	-34	9	X POSSIBLE
	51	-17	-41	10	
	52	-24	-44	-	
	47	20	-39	-	
5100S	45	-19	-35	-	
	41	-16	-30	-	
	41	214	-27	-	
	41	-13	-24	-	

VLF - EM SURVEY

PROJECT BGP PAGE 27

GRID _____ DATE _____

LINE 6100E OPERATOR G.B.SOURCE STATION Amurapits

STATION	OUT OF PHASE	IN PHASE	FRASER FILTER		REMARKS
FIELD STATION					
1100S	70	-3	-5		
	68	-2	-4	1	
	72	-2	-6	6	
	73	-4	-10	10	
2100S	75	-6	-16	10	X PROBABLE
	67	-10	-20	5	
	63	-10	-21	1	
	65	-11	-21	3	
3100S	66	-10	-23	9	
	68	-13	-30	13	
	65	-17	-36	10	X POSSIBLE
	60	-19	-40	5	
4100S	55	-21	-41	-	
	50	-20	-39	-	
	49	-19	-34	-	
	46	-15	-30	-	
5100S	45	-15	-29	-	
	42	-14	-27	-	
	43	-13	-25	-	
	40	-12	-23	-	

VLF - EM SURVEY

PROJECT BGP PAGE 29

GRID _____ DATE _____

LINE 8100E OPERATOR G.B.SOURCE STATION Amurapits

STATION	OUT OF PHASE	IN PHASE	FRASER FILTER		REMARKS
FIELD STATION					
1100S	61	0	1		F.S. 2360
	62	11	5	-	
	62	14	2	15	
	72	-2	-10	21	X DEFINITE
2100S	69	-8	-19	15	
	64	-11	-25	9	
	58	-14	-28	3	
	55	-14	-28	-	
3100S	50	-14	-25	-	
	48	-11	-19	-	
	48	-8	-16	-	
	48	-8	-15	0	
4100S	47	-7	-16	3	
	43	-9	-18	1	
	45	-9	-17	-	
	45	-8	-17	4	
5100S	42	-9	-21	7	
	38	-12	-24	2	
	35	-12	-23	-	
	32	-11	-17	-	

VLF - EM SURVEY

PROJECT R167 PAGE 24

GRID _____ DATE _____

LINE 2000E OPERATOR G.B.

SOURCE STATION ANAPOLIS

STATION	IN PHASE	FRASER FILTER		REMARKS
6005	42	-12	-23	-
	40	-11	-19	-
	42	-8	-17	-
	42	-9	-17	-
7005	40	-8	-11	-
	37	-3	-5	-
	37	-2	-4	-
	37	-2	-4	-
8005	37	-2		

VLF - EM SURVEY

PROJECT R167 PAGE 26

GRID _____ DATE _____

LINE 4000E OPERATOR G.B.

SOURCE STATION ANAPOLIS

STATION	IN PHASE	FRASER FILTER		REMARKS
6005	41	-11	-17	-
	38	-8	-13	-
	40	-5	-10	-
	40	-5	-9	-
7005	39	-4	-9	2
	38	-5	-11	0
	35	-6	-9	-
	32	-3	-3	-
8005	34	0		

MAIN CR

VLF - EM SURVEY

PROJECT R167 PAGE 28

GRID _____ DATE _____

LINE 6000E OPERATOR G.B.

SOURCE STATION ANAPOLIS

STATION	IN PHASE	FRASER FILTER		REMARKS
6005	37	-11	-19	-
	40	-8	-16	-
	40	-8	-15	-
	40	-7	-14	-
7005	38	-7	-10	-
	35	-3	-6	-
	35	-3	-5	-
	33	-2	-2	-
8005	32	0		

MAIN CR

VLF - EM SURVEY

PROJECT R167 PAGE 30

GRID _____ DATE _____

LINE 8000E OPERATOR G.B.

SOURCE STATION ANAPOLIS

STATION	IN PHASE	FRASER FILTER		REMARKS
6005	30	-6	-9	-
	32	-3	-8	2
	33	-5	-11	3
	33	-6	-11	0
7005	33	-5	-11	-
	27	-6	-9	-
	27	-3	-3	-
	24	0	5	-
8005	31	+5	7	-
	30	+2	7	-
	30	+5	16	-
	30	+11	27	-
9005	32	+16		

CR

45° Slope

VLF - EM SURVEY

PROJECT R167 PAGE 31

GRID _____ DATE _____

LINE L10100E OPERATOR G.B.

SOURCE STATION ANIMAPOLIS

STATION	IN PHASE	FRASER FILTER	REMARKS
2100S	62 -9	-18	
	58 -9	-17	
	57 -8	-15	
	59 -7	-15	5
3100S	57 -8	-20	11
	54 -12	-26	9
	52 -14	-29	4
	51 -15	-30	-
4100S	46 -15	-28	-
	42 -13	-24	-
	41 -11	-15	-
	38 -4	-4	-
5100S	45 0	-2	3
	50 -2	-7	13
	47 -5	-15	13
	43 -10	-20	-
6100S	34 -10	-14	-
	28 -4	-4	-
	40 0	0	-
	35 0	-3	6
7100S	40 -3	-6	1

Topo?

X PROBABLE

CK

VLF - EM SURVEY

PROJECT R167 PAGE 35

GRID _____ DATE _____

LINE L14100E OPERATOR G.B.

SOURCE STATION ANIMAPOLIS

STATION	IN PHASE	FRASER FILTER	REMARKS
2100S	64 -7	-15	
	66 -8	-20	13
	67 -12	-27	19
	67 -15	-39	22
3100S	62 -24	-49	12
	55 -25	-51	0
	51 -26	-49	-
	45 -23	-44	-
4100S	42 -21	-39	-
	41 -18	-33	-
	40 -15	-28	-
	42 -13	-25	-
5100S	39 -12	-19	-
	40 -7	-9	-
	40 -2	1	-
	48 +3	1	8
6100S	48 -2	-7	15
	48 -5	-16	6
	43 -11	-13	-
	36 -2	7	-
7100S	35 +9	20	-

X PROBABLE

X PROBABLE

CK

VLF - EM SURVEY

PROJECT R167 PAGE 33

GRID _____ DATE _____

LINE L2100E OPERATOR G.B.

SOURCE STATION ANIMAPOLIS

STATION	IN PHASE	FRASER FILTER	REMARKS
2100S	54 -17	-33	
	52 -16	-30	-
	52 -14	-28	-
	51 -14	-28	-
3100S	50 -14	-25	-
	48 -11	-23	-
	45 -12	-22	-
	41 -10	-20	-
4100S	42 -10	-15	-
	43 -5	-6	-
	45 -1	3	-
	91 +4	8	4
5100S	56 +4	-1	17
	55 -5	-9	11
	51 -4	-12	17
	45 -8	-26	23
6100S	40 -18	-35	-
	29 -17	-25	-
	23 -8	-9	-
	211 -1	9	-
7100S	40 +10	16	3

X DEFINITE

X DEFINITE

STEEP

VLF - EM SURVEY

PROJECT BIGP PAGE 32
 GRID _____ DATE _____
 LINE 10+00E OPERATOR G.B.

SOURCE STATION ANAPOLIS

STATION	IN PHASE	FRASER FILTER		REMARKS
<u>38</u>	<u>-3</u>	<u>-4</u>	<u>-</u>	
<u>35</u>	<u>-1</u>	<u>0</u>	<u>-</u>	
<u>33</u>	<u>+1</u>	<u>2</u>	<u>-</u>	
<u>8700S</u> <u>35</u>	<u>+1</u>	<u>1</u>	<u>-</u>	
<u>34</u>	<u>0</u>	<u>3</u>	<u>-</u>	
<u>34</u>	<u>+3</u>	<u>7</u>	<u>-</u>	
<u>35</u>	<u>+4</u>	<u>10</u>		
<u>9100S</u> <u>35</u>	<u>+6</u>			

VLF - EM SURVEY

PROJECT BIGP PAGE 36
 GRID _____ DATE _____
 LINE 14+00E OPERATOR G.B.

SOURCE STATION ANAPOLIS

STATION	IN PHASE	FRASER FILTER		REMARKS
<u>40</u>	<u>+11</u>	<u>19</u>	<u>8</u>	
<u>49</u>	<u>+8</u>	<u>12</u>	<u>13</u>	<u>X POSSIBLE</u>
<u>48</u>	<u>+4</u>	<u>6</u>	<u>8</u>	
<u>8100S</u> <u>44</u>	<u>+2</u>	<u>4</u>	<u>-</u>	
<u>45</u>	<u>+2</u>	<u>7</u>	<u>-</u>	
<u>42</u>	<u>+5</u>	<u>11</u>	<u>-</u>	
<u>42</u>	<u>+6</u>	<u>13</u>		
<u>9100S</u> <u>42</u>	<u>+7</u>			

VLF - EM SURVEY

PROJECT BIGP PAGE 34
 GRID _____ DATE _____
 LINE 12+00E OPERATOR G.B.

SOURCE STATION ANAPOLIS

STATION	IN PHASE	FRASER FILTER		REMARKS
<u>47</u>	<u>+6</u>	<u>6</u>	<u>19</u>	<u>X POSSIBLE</u>
<u>48</u>	<u>0</u>	<u>-3</u>	<u>8</u>	
<u>47</u>	<u>-3</u>	<u>-2</u>	<u>-</u>	
<u>8100S</u> <u>46</u>	<u>+1</u>	<u>3</u>	<u>-</u>	
<u>47</u>	<u>+2</u>	<u>2</u>	<u>3</u>	
<u>44</u>	<u>0</u>	<u>0</u>	<u>-</u>	
<u>42</u>	<u>0</u>	<u>3</u>		
<u>9100S</u> <u>45</u>	<u>+3</u>			

APPENDIX II

Induced Polarization/Resistivity Data

G. Belik and Associates Ltd., - I.P. Data Sheets

CLIENT: Zalmac Mines Ltd.
 PROPERTY: Big P Group
 OPERATOR: G. Belik
 FREQ'S USED: 10H_Z/0.3H_Z
 DATE: October 24-25, 1984

Line 2+00W

Tx Location: 1+50N
 Calibration: 2+00-2+25N +3.3
 1+75-2+00N +3.9
 1+50-1+75N +1.5
 1+25-1+50N +2.4
 1+00-1+25N +2.5
 0+75-1+00N +3.0

Rx Loc.	Tx Loc.	Vernier Voltage	Voltage Scale	I	F.E.	Corr. F.E.	Apparent Resistivity
3+25-3+50N	2+00-2+25N	984	10	110	5.0	2.2	134
3+00-3+25N	2+00-2+25N	218	100	110	6.6	3.3	149
	1+75-2+00N	943	10	120	6.6	2.7	120
2+75-3+00N	2+00-2+25N	389	100	110	6.0	2.7	106
	1+75-2+00N	143	100	120	6.0	2.1	89
	1+50-1+75N	807	10	175	5.5	4.0	69
2+50-2+75N	2+00-2+25N	156	1000	110	7.2	3.9	106
	1+75-2+00N	483	100	120	6.6	2.7	121
	1+50-1+75N	228	100	180	6.5	5.0	95
	1+25-1+50N	700	10	230	2.5	0.1	46
2+25-2+50N	1+75-2+00N	274	1000	115	7.2	3.3	178
	1+50-1+75N	680	100	170	5.2	3.7	120
	1+25-1+50N	207	100	215	5.4(N)	3.0	72
	1+00-1+25N	820	10	115	7.8	5.3	107

Line: 2+00W Tx: 1+50N

Rx Loc.	Tx Loc.	Vernier Voltage	Voltage Scale	I	F.E.	Corr. F.E.	Apparent Resistivity
2+00-2+25N	1+50-1+75N	355	1000	165	5.4	3.9	161
	1+25-1+50N	422	100	205	5.7	3.3	62
	1+00-1+25N	142	100	110	8.4	5.9	97
1+75-2+00N	1+25-1+50N	135	1000	205	5.2	2.8	49
	1+00-1+25N	310	100	110	6.6	4.1	84
1+50-1+75N	1+00-1+25N	910	100	110	6.6	4.1	62
0+75-1+00N	1+25-1+50N	321	1000	200	3.0	0.6	120
	1+50-1+75N	460	100	115	6.6	5.1	120
	1+75-2+00N	106	100	110	8.3	4.4	72
	2+00-2+25N	772	10	100	9.6(N)	6.3	116
0+50-0+75N	1+00-1+25N	399	1000	110	7.0	4.5	272
	1+25-1+50N	804	100	210	6.0	3.5	115
	1+50-1+75N	183	100	165	8.7	7.2	83
	1+75-2+00N	507	10	110	9.6	5.7	69
0+25-0+50N	0+75-1+00N	355	1000	130	5.6	2.6	205
	1+00-1+25N	447	100	110	8.0	5.5	122
	1+25-1+50N	171	100	215	6.0(N)	3.6	60
	1+50-1+75N	536	10	170	8.0(N)	6.5	47
0+00-0+25N	0+75-1+00N	635	100	130	10.0	7.0	146
	1+00N-1+25N	133	100	110	10.5	8.0	91
	1+25-1+50N	102	100	200	8.0(N)	5.6	77
0+25S-0+00	0+75-1+00N	308	100	130	8.7	5.7	177
	1+00N-1+25N	864	10	110	9.6	7.1	118
0+25-0+50S	0+75-1+00N	768	10	130	7.5(N)	4.5	89

Line 2+00W

Tx Location:	3+00S	
Calibration:	2+25-2+50S	+2.2
	2+50-2+75S	+1.8
	2+75-3+00S	+3.0
	3+00-3+25S	+1.8
	3+25-3+50S	+1.8
	3+50-3+75S	+3.3

Rx Loc.	Tx Loc.	Vernier Voltage	Voltage Scale	I	F.E.	Corr. F.E.	Apparent Resistivity
1+00-1+25S	2+25-2+50S	495	10	140	7.0	4.8	53
1+25-1+50S	2+25-2+50S	139	100	140	7.0	4.8	74
	2+50-2+75S	515	10	175	3.9	2.1	44
1+50-1+75S	2+25-2+50S	539	100	175	5.1	2.9	92
	2+50-2+75S	129	100	195	3.3	1.5	49
	2+75-3+00S	519	10	135	3.0	0	58
1+75-2+00S	2+25-2+50S	156	1000	160	4.8	2.6	73
	2+50-2+75S	271	100	195	3.5	1.7	42
	2+75-3+00S	755	10	135	3.9	0.9	42
	3+00-3+25S	565	10	170	3.6	1.8	49
2+00-2+25S	2+50-2+75S	200	1000	200	3.9	2.1	75
	2+75-3+00S	299	100	135	3.5	0.5	66
	3+00-3+25S	137	100	170	4.0	2.2	60
	3+25-3+50S	692	10	190	3.3	1.5	55
2+25-2+50S	2+75-3+00S	874	100	135	3.0	0	49
	3+00-3+25S	206	100	175	3.7	1.9	35
	3+25-3+50S	784	10	195	3.6	1.8	30
2+50-2+75S	3+00-3+25S	764	100	180	3.0	1.2	32
	3+25-3+50S	136	100	195	3.9	2.1	21
2+75-3+00S	3+25-3+50S	388	100	200	3.1	1.3	15
3+50-3+75S	3+00-3+25S	870	100	180	2.1	0.3	36
	2+75-3+00S	121	100	135	4.5	1.5	27
	2+50-2+75S	552	10	200	4.5	2.7	21
	2+25-2+50S	338	10	160	5.4	3.2	32

3+75-4+00S	3+25-3+50S	857	100	190	3.9	2.1	34
	3+00-3+25S	344	100	175	3.3	1.5	59
	2+75-3+00S	813	10	135	4.2	1.2	45
	2+50-2+75S	439	10	195	4.5	2.7	34
4+00-4+25S	3+50-3+75S	816	100	140	4.8	1.5	44
	3+25-3+50S	324	100	195	4.5	2.7	50
	3+00-3+25S	168	100	175	2.4	0.6	72
	2+75-3+00S	476	10	135	4.8	1.8	53
4+25-4+50S	3+50-3+75S	239	100	135	5.4	2.1	53
	3+25-3+50S	122	100	185	3.7	1.9	49
	3+00-3+25S	755	10	165	3.9	2.1	69
4+50-4+75S	3+50-3+75S	105	100	135	4.7	1.4	58
	3+25-3+50S	622	10	185	3.7	1.9	50
4+75-5+00S	3+50-3+75S	356	10	140	3.6	0.3	38

APPENDIX III

Statement of Expenditures

Statement of Expenditures

Big P Project

1). Labour:

G. Belik, M.Sc. October 15-25, 1984 10.0 days at \$300/day	\$3,000.00	
D. Arens, Senior Assistant October 17-26, 1984 10.0 days at \$160/day	1,600.00	
M. Forbes, Assistant October 17-25, 1984 9.0 days at \$140/day	<u>1,260.00</u>	\$5,860.00

2). Expenses & Disbursements:

a) Truck Rental & Operating Expenses	\$675.66	
b) Camp Rental, Food and Travel Expenses	981.97	
c) Equipment Rental V.L.F.-E.M. Unit \$135.00 I.P. Unit <u>250.00</u>	385.00	
d) Field Supplies	151.24	
e) Misc. Items	<u>20.00</u>	2,213.87

3). Report Preparation:

Professional fees, Drafting, Secretarial, Maps, Xerox and Binding		<u>1,400.00</u>
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Total		<u>\$9,473.87</u>
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APPENDIX IV

Statement of Qualifications

G. D. Belik

GARY D. BELIK, M.Sc.

Consulting Geologist
Mineral Exploration

#6 NICOLA PLACE, 310 NICOLA STREET • KAMLOOPS, B.C. V2C 2P5 • PHONE (604) 374-4247

CERTIFICATE

I, GARY D. BELIK, OF THE CITY OF KAMLOOPS, BRITISH COLUMBIA, DO HEREBY CERTIFY THAT:

- (1). I am a member of the Canadian Institute of Mining and Metallurgy, and a fellow of the Geological Association of Canada.
- (2). I am employed by G. Belik and Associates Ltd., with my office at 664 Sunvalley Drive, Kamloops, B. C.
- (3). I am a graduate of the University of British Columbia with a B. Sc. in Honors Geology and a M. Sc. in Geology.
- (4). I have practised continuously as a geologist since May, 1970.
- (5). I have gained considerable geophysical experience over the past 11 years including extensive use of Induced Polarization and V.L.F.-E.M. systems.



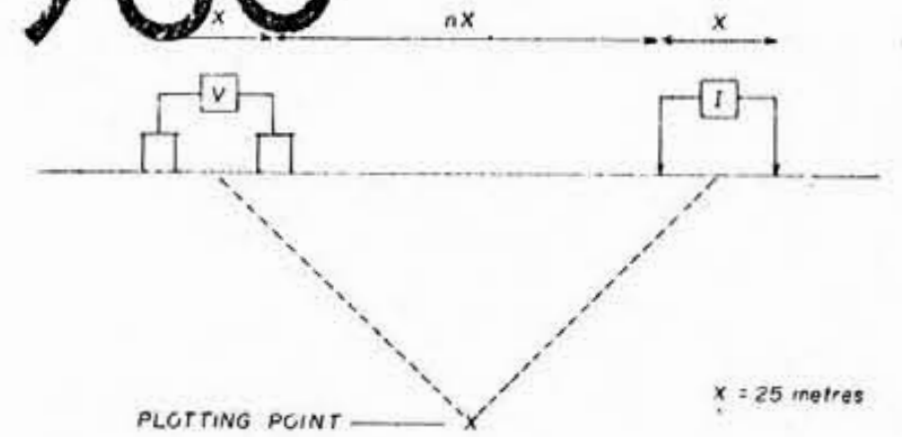
Gary D. Belik, M. Sc.

GEOLOGIST

December 8, 1984

GEOLOGICAL BRANCH
ASSESSMENT REPORT

12,906



SURFACE PROJECTION OF ANOMALOUS ZONE

- DEFINITE
- PROBABLE
- POSSIBLE

CONTOUR INTERVALS

- PFE -2.0, 3.0, 5.0, 7.5, 10, 15
- RESISTIVITY - 1, 1.5, 3, 5, 7.5, 10, 15, ...
- METAL FACTOR - 10, 15, 20, 30, 50, 75, 100, ...

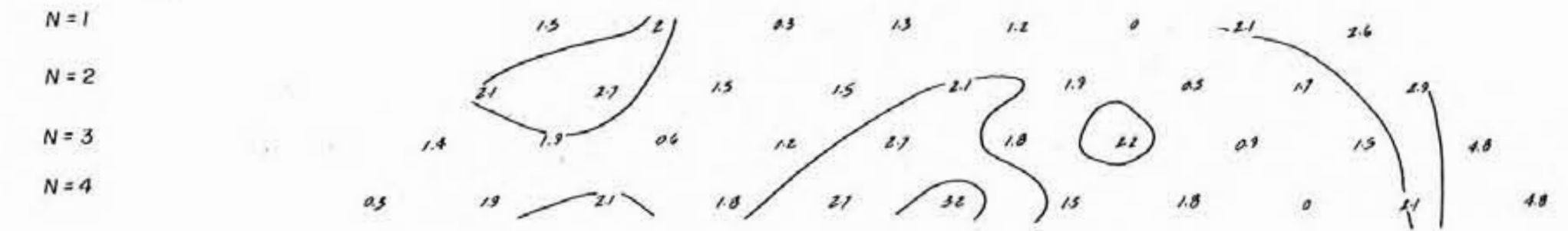
ZALMAC MINES LTD.
INDUCED POLARIZATION
RESISTIVITY SURVEY
LINE NO. 2+00W
BIG P GROUP
VERNON MINING DIVISION, B.C.

TECHNICAL WORK BY: G. BELIK AND ASSOCIATES LTD. DATE SURVEYED: OCTOBER, 1984.
APPROVED BY: G. BELIK, M.Sc. FIG. NO. 1038-4

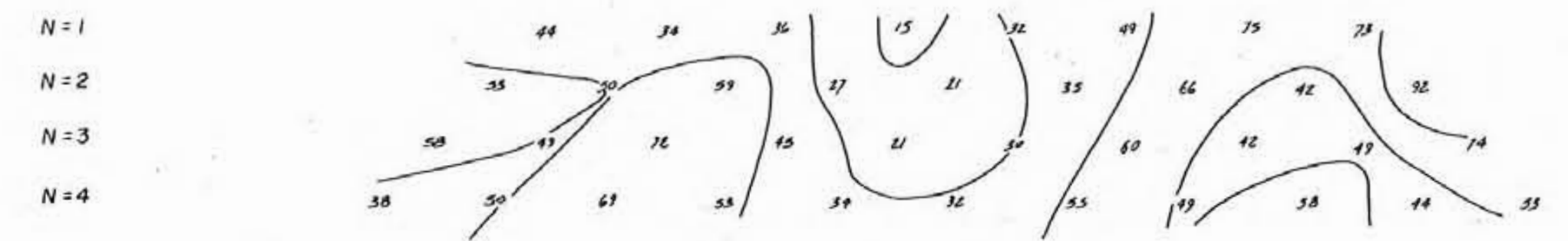
COORDINATE

-4+50 S -4+00 S -3+50 S -3+00 S -2+50 S -2+00 S -1+50 S -1+00 S -0+50 S - BASELINE

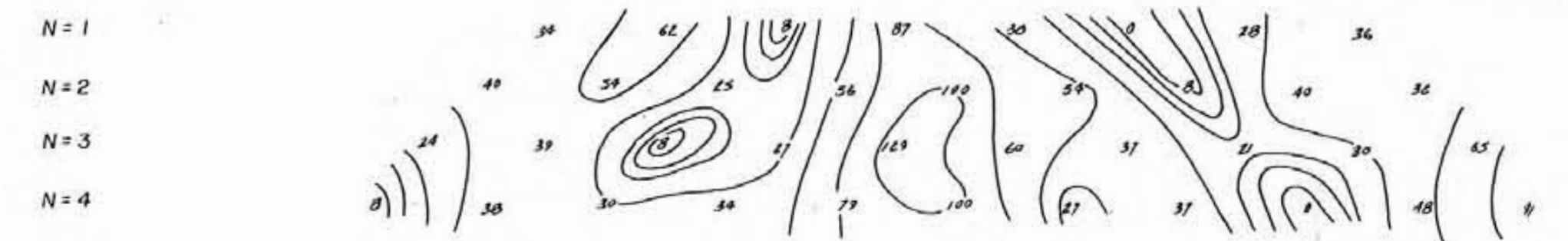
P. F. E.
(X = 25 m)



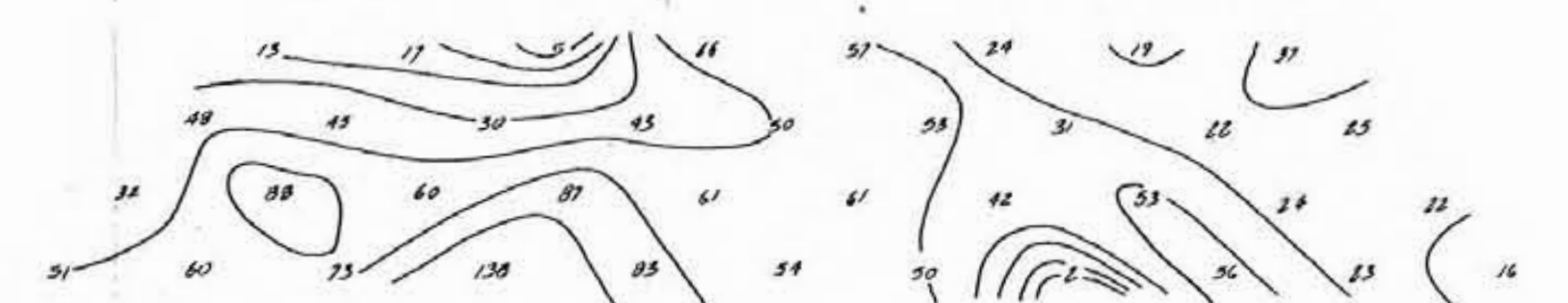
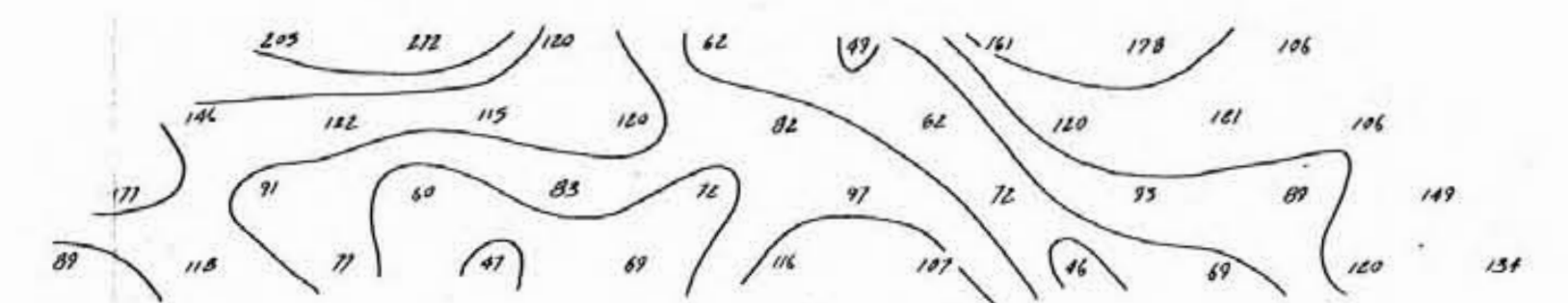
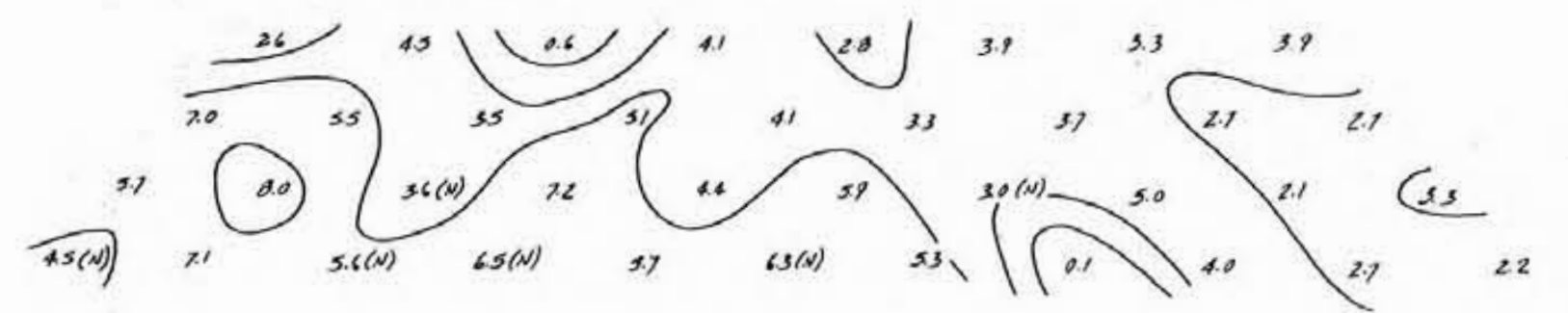
RESISTIVITY
(X = 25 m)

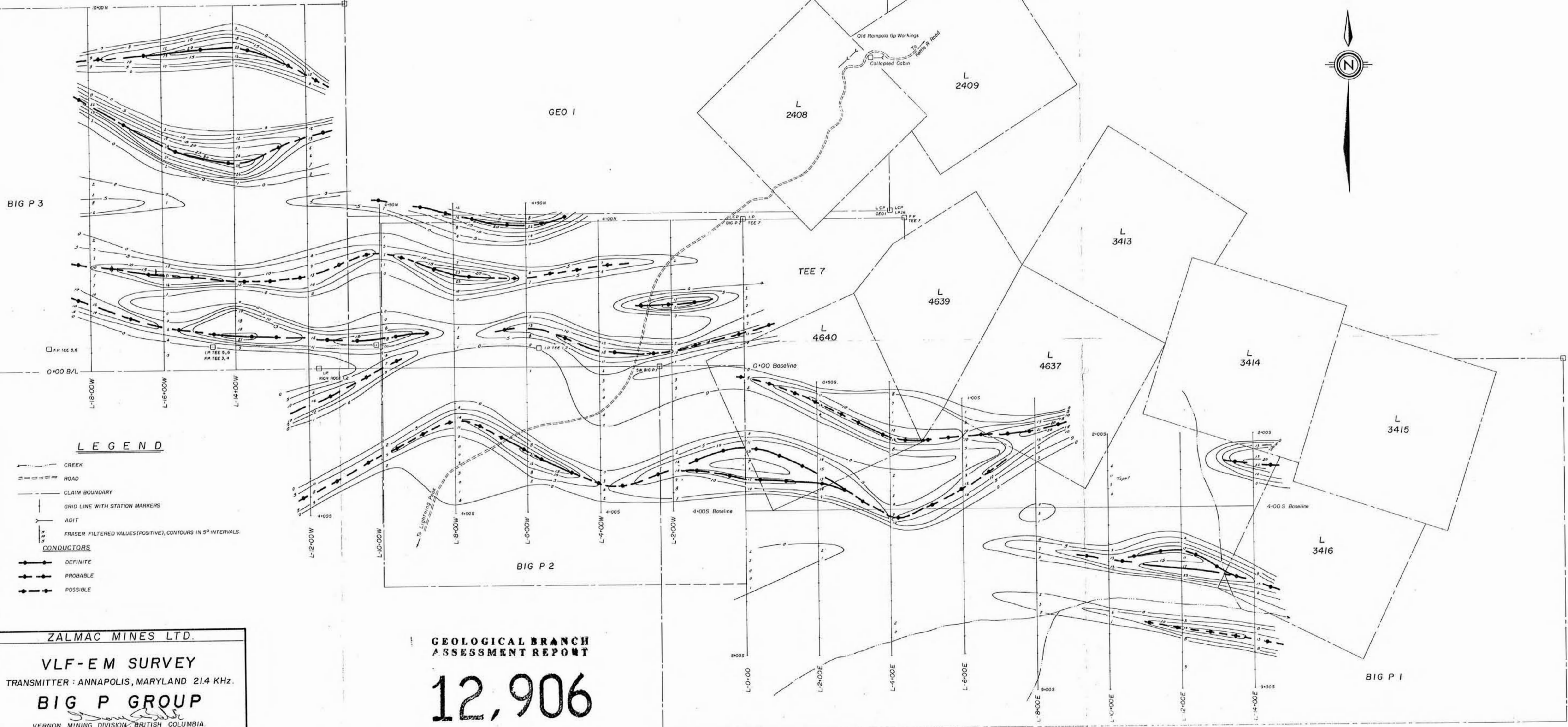


METAL FACTOR
(X = 25 m)



-0+50 N -1+00 N -1+50 N -2+00 N -2+50 N -3+00 N





LEGEND

- CREEK
- ROAD
- CLAIM BOUNDARY
- GRID LINE WITH STATION MARKERS
- ADIT
- FRASER FILTERED VALUES (POSITIVE), CONTOURS IN 5th INTERVALS
- CONDUCTORS**
- DEFINITE
- PROBABLE
- POSSIBLE

ZALMAC MINES LTD.
VLF-EM SURVEY
 TRANSMITTER: ANNAPOLIS, MARYLAND 21.4 KHz.
BIG P GROUP
 VERNON MINING DIVISION, BRITISH COLUMBIA.

TECHNICAL WORK BY:
 G. BELIK AND ASSOCIATES LTD.
 DRAWN BY: W. G.
 APPROVED BY: G. BELIK, M.Sc.

SCALE:
 1:5,000 0 25 50 100 meters 200

DATE: NOVEMBER, 1984
 FIG NO. 1038-3

To accompany a report by G. Belik, M.Sc.

**GEOLOGICAL BRANCH
 ASSESSMENT REPORT**

12,906