A GEOCHEMICAL AND GEOPHYSICAL ASSESSMENT REPORT ON THE LIZ B - JOHN 2 PROPERTY

on behalf of

[redacted]LEGION RESOURCES LTD.
Vancouver, BC

by

G. H. Giroux, P.Eng.
M. Wasel, B.Sc.

MONTGOMERY CONSULTANTS LTD.

January 15, 1989

ARIS SUMMARY SHEET

District Geologist, Nelson — Off Confidential: 90.02.08

ASSESSMENT REPORT 18727 — MINING DIVISION: Nelson

PROPERTY: Liz B
LOCATION: LAT 49 12 30 LONG 116 34 00
UTM 11 5450486 531563
NTS 082F02E
CLAIM(S): Liz B 1-4,John 2,Rex,Tag,Bid
OPERATOR(S): Montgomery Consul.
AUTHOR(S): Giroux, G.H.
REPORT YEAR: 1989, 79 Pages
COMMODITIES SEARCHED FOR: Zinc,Lead,Silver
KEYWORDS: Proterozoic,Purcell Group,Kitchener-Siyeh Formation Dutch Creek Formation,Argillite,Limestone,Quartzite,Galena Sphalerite,Pyrite

WORK DONE: Geochemical,Geological,Geophysical,Physical
GEOL 950.0 ha
Map(s) - 1; Scale(s) - 1:5000
IPOL 11.7 km
Map(s) - 3; Scale(s) - 1:5000
SOIL 898 sample(s) ;AG,PB,ZN
Map(s) - 4; Scale(s) - 1:5000

RELATED REPORTS: 01695,02022,02728,04888,10715,10716,12919,12921,12922,12932
MINFILE: 082FSE005

mining exploration services
property evaluation & development
computer applications in the mineral industry

A GEOCHEMICAL AND GEOPHYSICAL ASSESSMENT REPORT ON THE LIZ B - JOHN 2 PROPERTY

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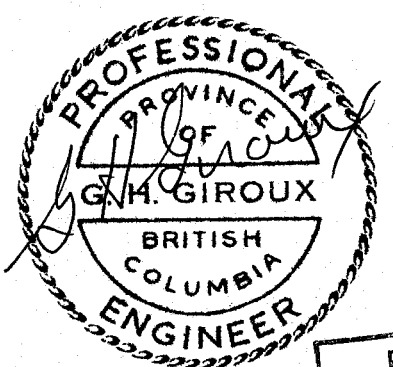
LEGION RESOURCES LTD.
3370 E. 29th
Vancouver, BC

by



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January 15, 1989

MONTGOMERY CONSULTANTS LIMITED
701–675 W. HASTINGS STREET VANCOUVER B.C. V6B 1N2 684-6136

TABLE OF CONTENTS

FIGURES

TABLE OF CONTENTS (cont'd)

TABLES

APPENDICES

1.0 SUMMARY AND CONCLUSIONS

1.1 This report describes the work completed during 1988 by Legion Resources Ltd. on the Liz B, John 2, Bid, Tag and Rex claims.

1.2 The claims are located just north of Creston, B.C. in the Nelson Mining Division on a railway about 129 km from the Smelter in Trail.

1.3 The property is underlain by late Precambrian shallow water carbonates and clastics of the Kitchener-Siyeh Formation. This unit is contained within the Percell Super Group which plays host to many lead-zinc deposits including the world class Sullivan lead-zinc deposit.

1.4 The claim area has been explored intermittently since 1924. By 1963 a total of 13 diamond drill holes had been drilled in the Main Zone on Wilds Creek. Surface grades in the order of 4 to 6% zinc across widths of 6 to 10 feet were indicated by trenching (Aho, 1963). Better drill intersections included 1.52 m of 14.88% Zn in Liz B #1 and 9 m of 2.13% zinc in A-4

1.5 The 1988 program consisted of geologic mapping (1:5000), line cutting, road repairs, soil sampling, rock sampling of mineralized areas and an induced polarization survey.

1.6 The soil geochemical survey and induced polarization survey indicated 4 anomalous zones. Zone 1 corresponds to the known Main Zone mineralization and consists of a coincident zinc and I.P. anomaly. Zone 2 150 m. east of Zone 1 and topographically higher is a new discovery. This zone is made up of coincident IP and zinc anomalies. A third zone consists of IP highs with superimposed zinc and lead anomalies and possibly represents the southern extention of the East Zone. The fourth zone and probably most interesting consists of a zinc anomaly 1 km long and up to 400 m. wide with a smaller coincident lead anomaly beginning directly south and down dip from a large IP anomaly. The possibility exists for a buried

sulphide body picked up by I.P. between lines 0N and 4N leaking zinc values downslope.

1.7 The program was completed between the dates October 1 to November 30, 1988 at a cost of $100,000.00.

2.0 INTRODUCTION

This report, written on behalf of Legion Resources Ltd., describes a work program completed on the LIZ B, JOHN 2, TAG, BID and REX claims in October to November, 1988. The program consisted of road repair, line-cutting, geologic mapping, soil geochemistry, lithogeochemistry and an induced polarization study.

The purpose of the program was to try and trace mineralized zones north and east from exposures and drill intersections in Wilds Creek.

3.0 LOCATION AND ACCESS

The Liz B - John 2 group of mineral claims are located approximately 14 km north of the town of Creston, British Columbia in the Nelson Mining Division. The claims cover the western flank of a broad north-south ridge between Kootenay Lake to the west and Duck Creek to the east.

N.T.S: 82F/02
Latitude: 49° 12.5' North
Longitude: 116° 34.0' West

Access to the property is excellent. Highway 3A is taken north from Creston a distance of 9 km to the village of Wynndel, B.C. From Wynndel two routes to the property are possible (see Figure 2). Cory Road can be followed for about .5 km. to a jeep road labeled 1. Route 1 transects the property in a north-south direction. A second alternative is to follow Highway 3A north of Wynndel to Bathie Road a distance of about 2 km. A jeep road (Route 0) can be followed north to the claim area. Other road systems on the property have been upgraded and are labeled as shown on Figure 2.

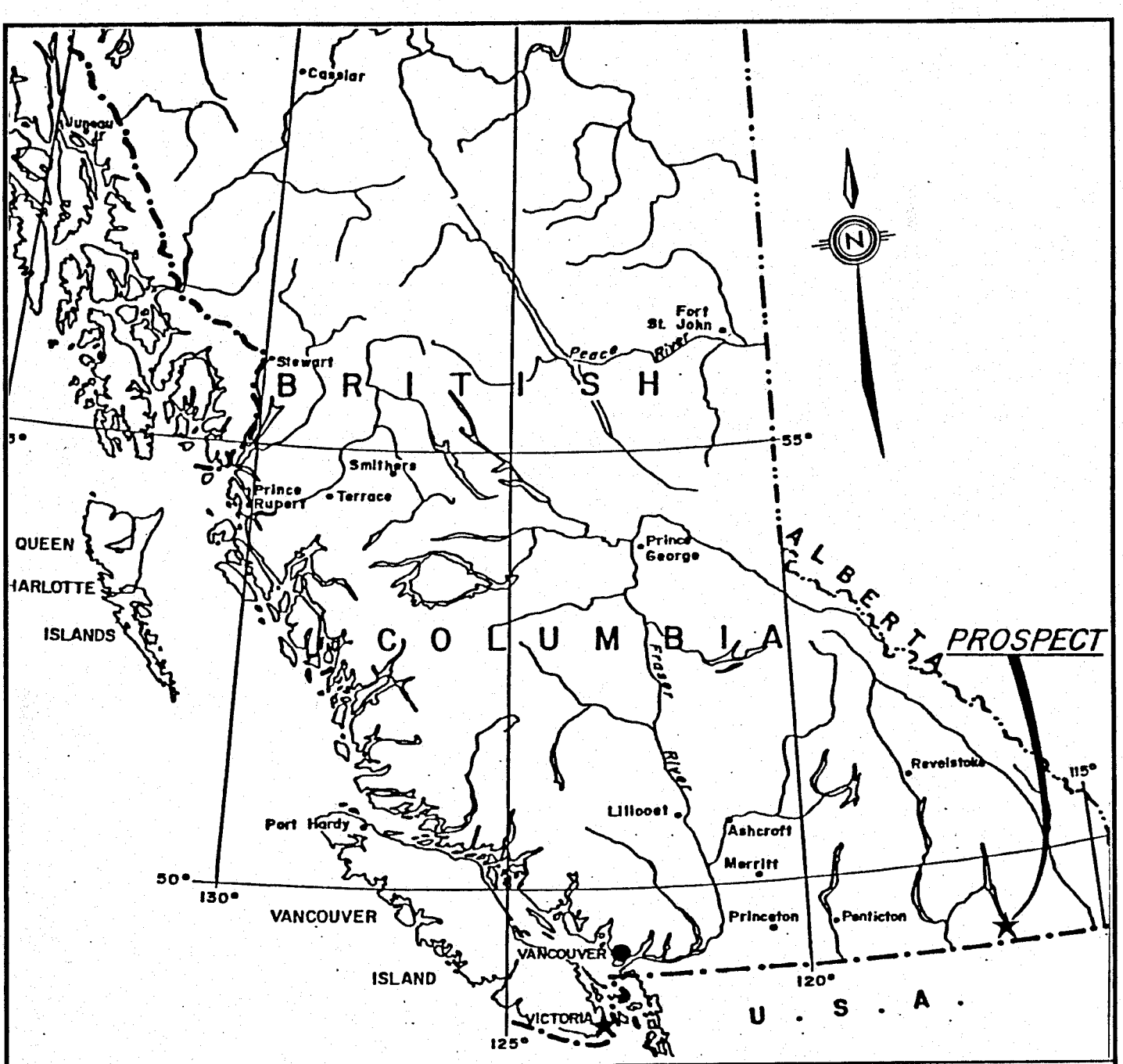

FIGURE 1

LEGION RESOURCES LTD.

CRESTON PROJECT PROJECT # 88HT1

LOCATION MAP

SCALE 1 : 8333333.

0 132. 263. 395. Miles

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4.0 CLAIM INFORMATION

Legion Resources Limited holds title to the Liz B #1-4, John 2, Tag, Bid, and Rex mineral claims consisting of 4 two-post claims and a total of 38 units (see Figure 2). The claim information is summarized below:

SUMMARY OF CLAIM INFORMATION

CLAIM NAME	RECORD #	UNITS	EXPIRY DATE
LIZ B #1	15376		October 30, 1989
LIZ B #2	15377		October 30, 1989
LIZ B #3	15378		October 30, 1989
LIZ B #4	15379		October 30, 1989
JOHN 2	545 (11)	8	November 1, 1990
REX	3697 (5)	6	May 1, 1990
TAG	5028	12	April 8, 1994
BID	5027	12	April 8, 1994
		38	

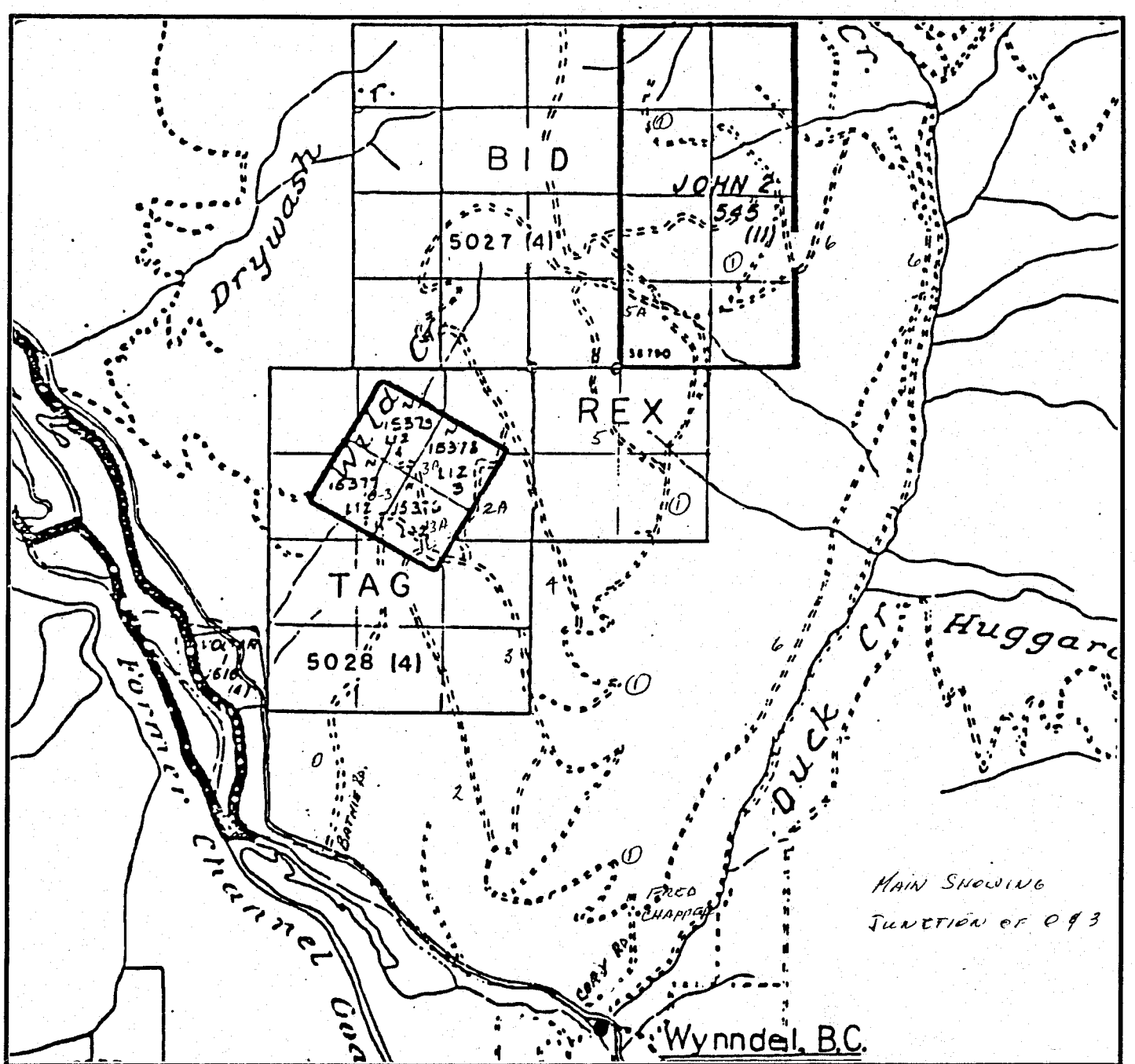

FIGURE 2

LEGION RESOURCES LTD.

CRESTON PROJECT PROJECT # 88HT1

CLAIM MAP

SCALE 1 : 33333.

0 667. 1333. 2000. 2667. M.

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5.0 WORK HISTORY

The southeast portion of British Columbia has contributed lead-zinc-silver production since the 1880's. The major contributor has been the Cominco Sullivan deposit, a world class mine and the principal reason for the smelter located at Trail (to the end of 1980 Sullivan produced 125,500,000 tons containing 6.7% lead, 5.8% zinc and 2.4 oz/ton silver). It is the existence of this smelter facility, in fact, that has led to the continual lead-zinc exploration in the Kootenays.

The first recorded exploration activity in the area is reported in 1924 when the ground now staked as the Liz B claims was located as the Sarah claims. Showings in Wilds Creek were explored by two adits and some trenching.

In the 1950's Newmont Mining Corporation optioned the property from S.W. Barclay and drilled 6 drill holes which intersected a mineralized zone about 2 metres wide over a distance of 335 metres. Holes S1 and S2 (see Figure 14) graded > 5% zinc over about 2 metres. Four holes S3 to S6 to the northeast has intersections in the range 2% to 4% zinc with 0.5% lead over similar widths.

In 1961 the claims were restaked by Barclay and optioned to Sheep Creek Gold Mines Ltd. Sheep Creek drilled two holes to try and prove the zone to the southwest. The first Liz B #1 intersected 1.52 m of 14.88% Zn at a point 61 m below the surface, while the second Liz B #2 stopped before the zone was intersected.

In November 1963 the property was examined by Gordon Davis, Dirk Kempleman-Klut and A. E. Aho at the request of S. Barclay. Geologic mapping and resampling of trenches was carried out and a preliminary reserve estimate of 150,000 tons (assuming 6 foot widths, 1200 feet strike length and a depth of 200 feet) grading 6% Zn was calculated by Aho. The

program in 1964 extended the mineralization some 100 m to the south of the main showing. The entire main zone was surface trenched and 5 drill holes completed by the end of 1965. Hole A-4 intersected 9 m (29.5 ft) of 2.13% zinc. Geologic mapping of the Liz B claims was extended to cover portions of the ground now staked as the Bid, Rex and John 2 claims.

No further work was recorded on the ground until 1968-70 when D.J. Hings completed a VLF-EM and two magnetic surveys over the main showing.

In 1977 the Liz B claims and the John 2 claims were held by Aspen Grove Mines. Ltd. Cominco staked the ground north and south of the Liz claims as the Wild No 1 and 2 claims (now called Tag and Bid claims respectively). During 1978 Cominco completed a soil survey along Wilds Creek with the object being to extend the mineralized zone discovered on the Liz B claims. A total of 452 samples were taken at intervals of 25 or 50 metres on lines spaced 100m apart. The results for zinc, lead and silver have been replotted on Figures 11 to 13.

In 1982 limited geochemical sampling was completed by Aspen Grove Mines on the Liz B and John 2 claims.

In 1984 a further 36 soil samples were taken on the Liz B claims and 57 soil samples were taken on the Rex claims mostly along road cuts. Aspen Grove Mines Ltd. also completed a soil sampling grid consisting of 673 soil samples on the John 2 claim. All samples were analyzed for zinc, lead and silver and the results along with Cominco's and 1988 sampling are shown on Figures 11 to 13.

6.0 1988 WORK PROGRAM

6.1 Introduction

With the acquisition of the Tag and Bid claims (formerly Wild #1 and 2) Legion Resources Ltd. now holds title to the entire area of interest. The object of the 1988 program was to fill in gaps between 1985 soil sampling on the Liz B, John 2 and Rex claims and the 1978 Cominco soil sampling north and south of the Liz B claim. The purpose was to determine if the zinc mineralization in Wilds Creek extends to the north and to test the area east of Wilds Creek for mineralized zones.

With these goals in mind many of the old logging roads present on the claims were repaired and surveyed to provide good access and line control to all parts of the property. A base line at N19^{o}E, more or less parallel to the strike of the mineralized zone was cut and slope corrected. Cross-lines at 200 m were cut and chained at 25 m stations. Chain and flagged lines half way between the cut lines were established for soil sampling.

6.2 Geology

6.21 Regional Geology

The regional geology surrounding the claim group was mapped by H.M.A. Rice in 1941 and described in G.S.C. Memoir 22. The portion of Rice's map pertaining to this property has been reproduced as Figure 3. The claim area is underlain by various units within the late Precambrian Purcell Supergroup. The Percell has been subdivided by a major unconformalty into an upper unit consisting of the Dutch Creek and Mt. Nelson formations and a Lower unit consisting of the Aldridge, Creston and Kitchener-Siyeh formations.

The Aldridge formation, the oldest in the map sheet, consists of an estimated 16,000 feet of mixed argillite, argillaceous quartzite and

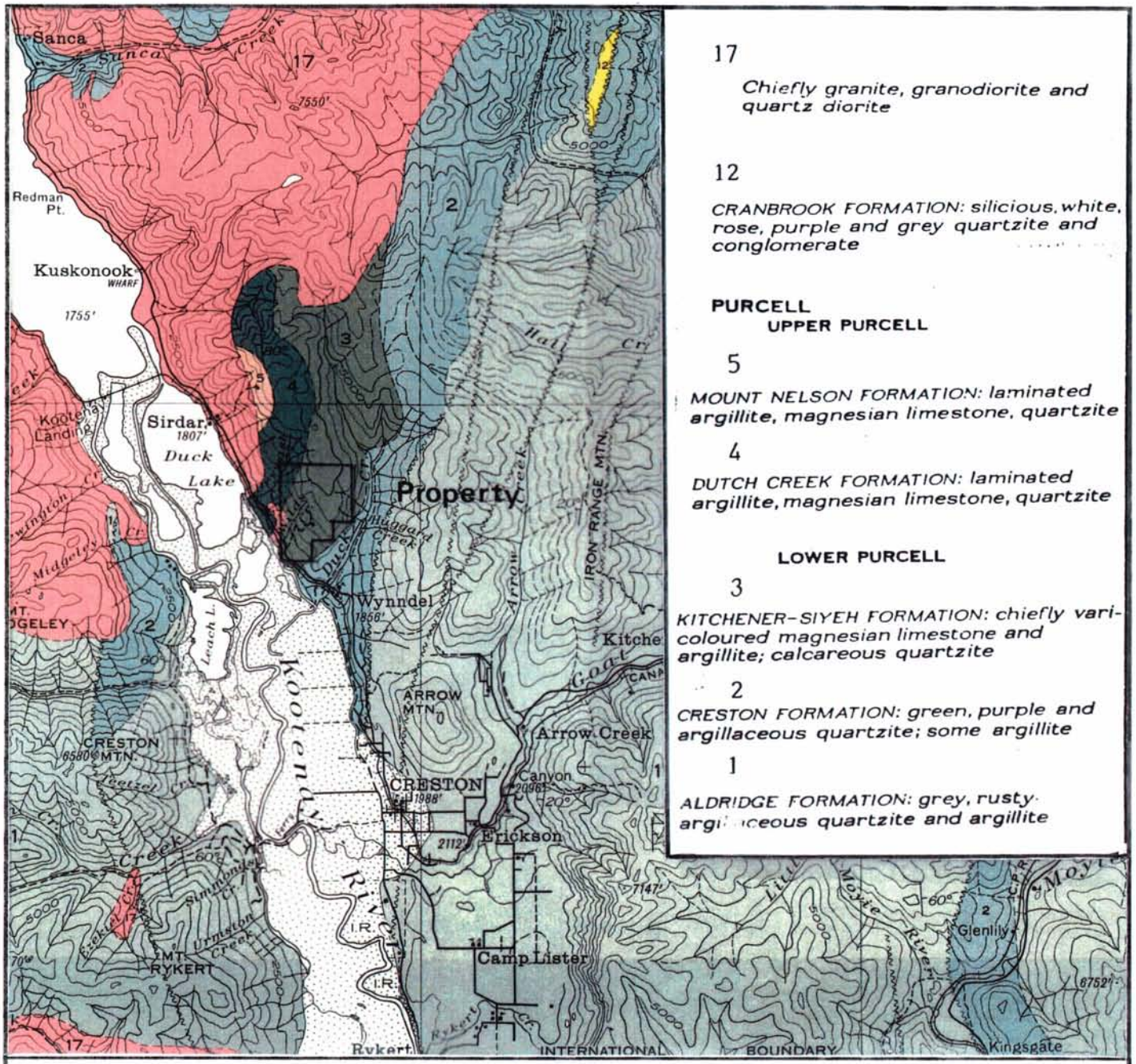

FIGURE 3

LEGION RESOURCES LTD.

CRESTON PROJECT PROJECT # 88HT1

REGIONAL GEOLOGY (Rice, 1938)

SCALE 1 : 63360.

0 1. 2. 3. Miles

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siltstones. The formation hosts the Sulivan Deposit, a hydrothermal syn-sedimentary deposit thought to have formed a sub-basin on the Aldridge Marine floor (Hoy et. al, 1981).

Overlying the Aldridge is the Creston formation, consisting of light green, brown and pale purple argillaceous quartzite, siltstone and argillite. The Creston is thought to be shallow sedimentary in origin.

The Creston is in turn overlain by shallow-water carbonates and clastics of the Kitchener-Siyeh Formation. This formation in the claim area consists of vari-coloured magnesium limestone, argillite, and calcareous quartzite.

Grey and green argillite, dolomite and quartzite form the Dutch Creek Formation which overlies the Kitchener-Siyeh formation and represents the base of the Upper Purcell super group.

The top of the Upper Purcell Supergroup consists of oolitic and stromatalitic dolomite and dolomitic limestone, argillaceous limestone and argillite of the Mount Nelson Formation.

Intruding the Purcell Supergroup in the claim area is the discordant post-tectonic Bayonne Batholith. The composition varies from a granite to a granodiorite. The intrusion has been dated (K-Ar) at 100 m.y. (Hoy et al. 1981).

6.22 Local Geology

The geology of the claim area was mapped on a scale of 1:5000 by M. Wasel during October to November, 1988 (see Figure 4). Outcrop exposure is about 20% in the area between lines 0S and 14S. In the higher areas to the north outcrop was very scarce and found only in areas of sudden relief change.

The rocks on the property belong to the Kitchener-Siyeh Formation, Lower Purcell supergroup. The main units mapped consist of a quartzite, a domomitized limestone, a phyllite and fissil shale.

The quartzite unit is very resistant to weathering and therefore forms prominent ridges. The composition ranges from massive to thinly bedded and the mica content varies locally. Where the mica content is high the unit is very fissil.

The phyllite and shale units seem to be related, the difference being the phyllite has high quartz and mica content. The phyllite may have undergone more intense metamorphism with it's protolith being the fissil shale. Many outcrops are intermediate between the phyllite and shale.

The unit with most economic interest is the variocolored dolomitic limestone unit which hosts the mineralized zone. In some areas the dolomitic limestone is silicified and interbedded with the fissil shale units. The dolomite units are semi-recessive while the shale unit between the two dolomite units is quite recessive and usually shows up as a depression, or in the case of the main zone a creek valley.

While structure is difficult to determine due to lack of outcrop, there appears to be a slightly overturned anticline striking NNE with both limbs dipping easterly.

6.23 Mineralization

The mineralized zone's on the property are found in two parallel dolomitic limestone beds. These beds have been called the Main Zone and the East Zone. These units have been previously mapped as signal units, but with further observation it was found that this unit is divided by a fissil slightly limey shale unit. The units are both dipping in an easterly direction and may be the limbs of an anticline plunging to the north. The mineralization seems to be hosted in the footwall dolomitic limestone unit while the hanging dolomitic limestone unit seems to be unmineralized and porous. This porous dolomitic limestone unit seems to be an aquifer for many of the fresh water springs found on the property.

The mineralized dolomatic limestone unit at the Main Zone is

characterized by galena, sphalerite and pyrite. In the area of the Main Zone the dolomatic limestone unit is underlain to the west by a banded quartzite unit which has a disseminated pyrite content of approximately 3%. The contact between the quartzite and the mineralized unit seems to be gradational. Both of the units are thinly bedded and the quartzite becomes progressively more carbonacous as the contact is approached. The mineralization of the Main Zone changes as you go up Wilds creek to the north. The zone changes from a banded unit to more of a silicified massive unit towards the north. The Main Zone is intruded by a diabase dyke which host extensive silicification and pyrite mineralization on the footwall of the dyke hot rock contact. Since the trenches in 1966 revealed the Main Zone to the south of the 1988 showing it is possible to give a rough estimate of the strike length. The Main Zone extends from line 10S to about 7S, yielding a strike length of 300 meters. The grade of this zone is not yet determined.

The East Zone of mineralization has been worked in previous years. This zone is also hosted in the footwall dolomitic unit. The East Zone seems to be more silicified then the Main Zone and has numerous quartz veinlets and stringers cross cutting it. These quartz veinlets often are characterized by tetrahedrite, chalcopyrite and galena. The mineralized zones are easy to see due to the Cu staining accompanying the copper minerals. The mineralization in this east zone is very sporadic and found only in local areas as very small veins.

The width of both zones is hard to determine. The East Zone however seems to be a very narrow zone with areas of local mineralization only. The Main Zone seems to vary from about six feet to ten feet. Whether or not this whole width is economically mineralized has not yet been determined.

6.3 Geochemistry

A soil sampling program in 1988 was designed to fill in gaps created between 1977 Cominco sampling on what are now the Tag and Bid claims and the 1984 sampling on the John 2 claim. A grid was established with a 3.4 km baseline cut a N19^{o}E. Lines were to be cut and flagged every 200 m. but due to a lack of funds some lines were excluded. Intermediate 100m spaced lines were flagged and sampled. Soil samples were taken every 25 m on lines over areas previously unsampled. Samples were taken from B Horizon wherever possible and placed in brown kraft bags. The bags were then shipped to Min-En Laboratories Ltd. in North Vancouver, B.C. Samples were dried and sieved to -80 mesh and then analyzed for lead, zinc and silver by multi Acid A.A. analysis. A total of 898 soil samples were collected. The results are included as Appendix I.

With the view to best understanding the distributions of background and anomalous samples on the claim group the data from 1978 and 1985 was combined with the results for 1988 and evaluated. The only potential difference in methods used is suggested by the silver results for 1978. A high proportion of .1 ppm values indicates the method used for analysis in 1978 probably had a less sensitive detection limit. As this will only effect the background distribution, all the silver values were used. By combining the three sets of data a total of 1939 samples were available for statistical analysis. The simple statistics of the three variables are presented as Table 1.

A correlation matrix indicated a poor lead-zinc correlation of -.1843; a poor lead-silver correlation for .1100 and a reasonably good zinc-silver correlation of .4484. Each element was then examined by the use of histograms, and cumulative probability plots with the aim of separating overlapping populations.

TABLE 1

SIMPLE STATISTICS

Element	Unit	n	Mean	Median	Standard Deviation	Lowest Value	Highest Value	Coef. of Var.
PB	ppm	1939	124.9	83.0	197.2	1.0	4176.0	1.58
ZN	ppm	1939	171.1	53.0	436.0	2.0	11000.0	2.55
AG	ppm	1939	.7	.7	.6	.1	11.6	.78

NOTE - Coefficient of Variation = Standard Deviation / Mean

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SIMPLE STATISTICS

LOG (Base 10) Transformed

Element	Unit	n	Mean	Median	Standard Deviation	Lowest Value	Highest Value	Coef. of Var.
PB	ppm	1939	1.8954	1.9191	.4069	.0000	3.6208	.21
ZN	ppm	1939	1.8265	1.7243	.5501	.3010	4.0414	.30
AG	ppm	1939	-.2510	-.1549	.3682	-1.0000	1.0645	-1.47

NOTE - Coefficient of Variation = Standard Deviation / Mean

ZINC

An arithmetic histogram showed a skewed distribution indicative of lognormal distribution. A lognormal histogram of zinc values (Figure 5) shows several overlapping populations. By plotting the cumulative distribution on a log-probability graph these overlapping populations can be separated and quantified. For zinc, Figure 6 shows four separate populations the parameters of which are summarized in Table 2. The highest population representing 4% of the data with a mean of 1329 ppm is representative of sphalerite mineralization. By selecting thresholds of 605 ppm and 450 ppm this population can be effectively isolated.

LEAD

With lead, as was the case with zinc, the values formed several overlapping lognormal distributions (see Figure 7). A lognormal cumulative probability plot, Figure 8 shows three populations. Table 3 summarizes the parameters of each population. The upper population, representing mineralization, consists of 2% of the data and has a mean of 837 ppm. By choosing thresholds of 275 ppm and 370 ppm the mineralization can be effectively contoured.

SILVER

Silver has a lognormal distribution with a large spike at .1 ppm. As mentioned earlier this is quite possibly due to a less sensitive detection limit used in 1978 analysis. The remaining samples show several overlapping populations (see Figure 9).

A lognormal probability plot (Figure 10) shows 3 populations. The highest population (1.8%) is clearly anomalous with a mean of 2.4 ppm (g/tonne). A threshold of 1.7 ppm will contour this anomalous populations. A second contour of 1.0 ppm was chosen to show an area of overlap between the upper part of populations 2 (mean .77 ppm) and the lowest part of population 3 (mean 2.4 ppm.). The parameters of three populations are summarized in Table 4.

The samples have been contoured using the thresholds mentioned above and are presented as Figures 11, 12 and 13.

Figure 5 : Lognormal Histogram for Zinc

22:26:24 LEGION RESOURCES LTD. 01/03/80

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = ZN Unit = ppm N = 1939

Mean =	1.8265	Min =	0.3010	1st Quartile =	1.4314
Std. Dev. =	0.5501	Max =	4.0414	Median =	1.7243
CV % =	30.1188	Skewness =	0.4939	3rd Quartile =	2.2014

Anti-Log Mean = 67.069 Anti-Log Std. Dev. : (-) 18.897
(+) 238.039

%	cum %	antilog	cls int	(# of bins = 33 - bin size = 0.1169)
0.00	0.03	1.748	0.2426	
0.05	0.08	2.288	0.3595	
0.00	0.08	2.995	0.4764	
0.00	0.08	3.920	0.5932	
0.21	0.28	5.130	0.7101	*
0.83	1.11	6.715	0.8270	****
1.55	2.65	8.788	0.9439	*******
4.33	6.98	11.502	1.0608	**********
2.99	9.97	15.055	1.1777	**********
4.02	13.99	19.704	1.2946	**********
7.68	21.68	25.790	1.4115	**********
14.54	36.21	33.755	1.5283	********** --> 63
10.26	46.47	44.180	1.6452	********** --> 44
4.85	51.31	57.824	1.7621	**********
5.21	56.52	75.683	1.8790	**********
6.19	62.71	99.056	1.9959	**********
6.65	69.36	129.649	2.1128	**********
7.12	76.47	169.689	2.2297	**********
5.72	82.19	222.096	2.3465	**********
3.97	86.16	290.688	2.4634	**********
3.51	89.66	380.464	2.5803	**********
3.20	92.86	497.966	2.6972	**********
2.42	95.28	651.758	2.8141	**********
1.50	96.78	853.046	2.9310	******
1.08	97.86	1116.500	3.0479	*****
0.72	98.58	1461.320	3.1647	***
0.52	99.10	1912.632	3.2816	**
0.36	99.46	2503.329	3.3985	**
0.26	99.72	3276.455	3.5154	*
0.15	99.87	4288.353	3.6323	*
0.00	99.87	5612.765	3.7492	
0.05	99.92	7346.207	3.8661	
0.00	99.92	9615.005	3.9829	
0.05	99.97	12584.497	4.0098	

0 1 2 3 4

Each "*" represents approximately 4.5 observations.

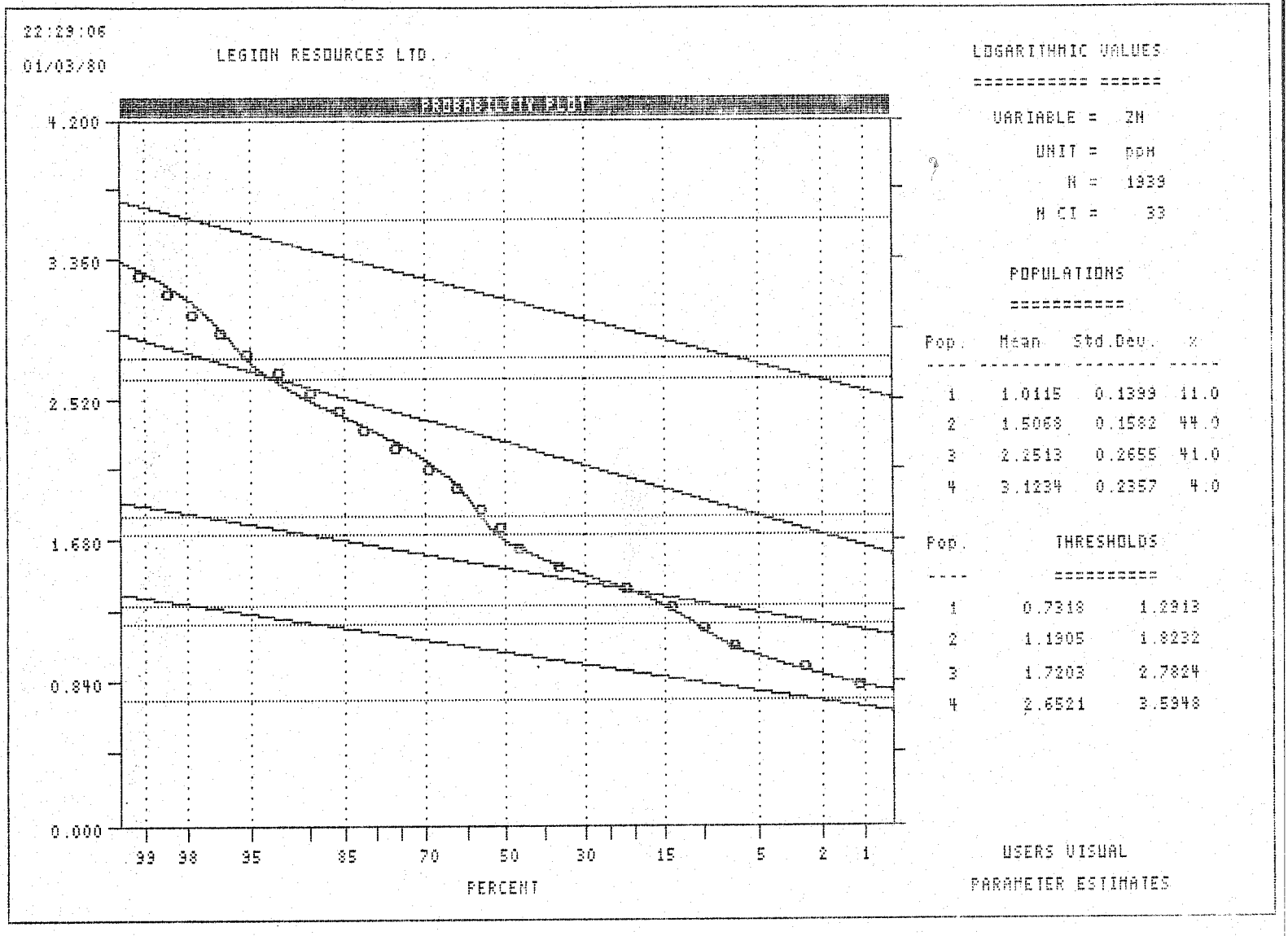


Figure 6 : Cumulative Probability Plots for Zinc

TABLE 2 : Summary for Zinc

22:30:16 LEGION RESOURCES LTD. 01/03/80

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = \DATA\HTALL.PPP

Variable = ZN Unit = ppm N = 1939
N CI = 33

Transform = Logarithmic Number of Populations = 4

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	10.269	-	7.441	11.00
		+	14.171	
2	32.125	-	22.318	44.00
		+	46.241	
3	178.373	-	96.782	41.00
		+	328.746	
4	1328.714	-	772.252	4.00
		+	2286.144	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	5.392	19.557
2	15.505	66.560
3	52.513	605.887
4	448.835	3933.468

##

Figure 7 : Lognormal Histogram for Lead

22:22:04 LEGION RESOURCES LTD. 01/03/80

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = PB Unit = ppm N = 1939

Mean =	1.8954	Min =	0.0000	1st Quartile =	1.5471
Std. Dev. =	0.4069	Max =	3.6208	Median =	1.9191
CV % =	21.4666	Skewness =	0.0843	3rd Quartile =	2.1847

Anti-Log Mean = 78.590 Anti-Log Std. Dev. : (-) 30.796
(+) 200.556

%	cum %	antilog	cls int	(# of bins = 33 - bin size = 0.1131)
0.00	0.03	0.878	-0.0566	
0.10	0.13	1.139	0.0566	
0.00	0.13	1.478	0.1697	
0.00	0.13	1.918	0.2829	
0.00	0.13	2.489	0.3960	
0.00	0.13	3.230	0.5092	
0.00	0.13	4.191	0.6223	
0.00	0.13	5.438	0.7355	
0.00	0.13	7.057	0.8486	
0.00	0.13	9.157	0.9618	
0.26	0.39	11.883	1.0749	*
1.39	1.78	15.419	1.1881	******
5.21	6.98	20.008	1.3012	**********
7.27	14.25	25.963	1.4144	**********
8.92	23.17	33.691	1.5275	**********
6.19	29.36	43.718	1.6407	**********
7.12	36.47	56.729	1.7538	**********
8.92	45.39	73.613	1.8670	**********
10.52	55.90	95.522	1.9801	********** --> 46
9.95	65.85	123.952	2.0933	********** --> 43
11.14	76.98	160.843	2.2064	********** --> 48
8.87	85.85	208.713	2.3195	**********
6.14	91.98	270.831	2.4327	**********
3.82	95.80	351.437	2.5458	**********
1.86	97.65	456.033	2.6590	********
0.83	98.48	591.759	2.7721	****
0.62	99.10	767.880	2.8853	***
0.31	99.41	996.420	2.9984	*
0.26	99.66	1292.978	3.1116	*
0.05	99.72	1677.799	3.2247	
0.05	99.77	2177.151	3.3379	
0.00	99.77	2825.123	3.4510	
0.15	99.92	3665.946	3.5642	*
0.05	99.97	4757.019	3.6773	

0 1 2 3 4

Each "*" represents approximately 4.5 observations.

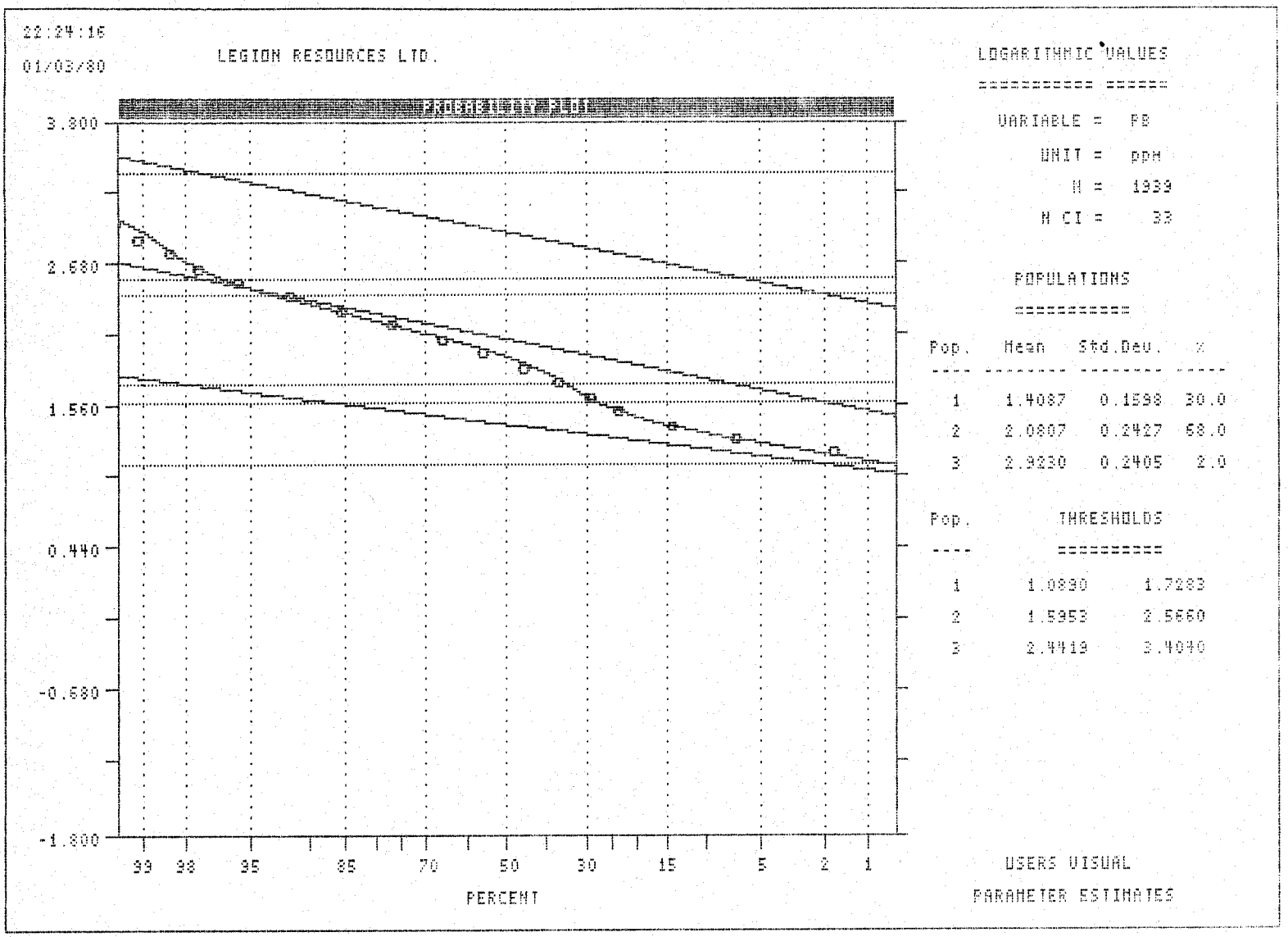


Figure 8 : Cumulative Probability Plot for Lead

Table 3 : Summary for Lead

22:25:16 LEGION RESOURCES LTD. 01/03/80

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = \DATA\HTALL.PPP

Variable = PB Unit = ppm N = 1939
N CI = 33

Transform = Logarithmic Number of Populations = 3

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	25.626	-	17.736	30.00
		+	37.027	
2	120.411	-	68.865	68.00
		+	210.542	
3	837.445	-	481.323	2.00
		+	1457.056	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	12.275	53.499
2	39.385	368.136
3	276.641	2535.104

##

Figure 9 : Lognormal Histogram for Silver

22:31:15 LEGION RESOURCES LTD. 01/03/80

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = AG Unit = ppm N = 1939

Mean =	-0.2510	Min =	-1.0000	1st Quartile =	-0.3979
Std. Dev. =	0.3682	Max =	1.0645	Median =	-0.1549
CV % =	146.6869	Skewness =	-0.9006	3rd Quartile =	0.0000

Anti-Log Mean = 0.561 Anti-Log Std. Dev. : (-) 0.240
(+) 1.310

%	cum %	antilog	cls int	(# of bins = 33 - bin size = 0.0645)	
0.00	0.03	0.093	-1.0323		
14.65	14.66	0.108	-0.9677	********** -->	64
0.00	14.66	0.125	-0.9032		
0.00	14.66	0.145	-0.8387		
0.00	14.66	0.168	-0.7742		
0.00	14.66	0.195	-0.7097		
2.32	16.98	0.226	-0.6452	**********	
0.00	16.98	0.263	-0.5807		
1.70	18.69	0.305	-0.5161	*******	
0.00	18.69	0.353	-0.4516		
9.28	27.96	0.410	-0.3871	********** -->	40
0.00	27.96	0.476	-0.3226		
5.72	33.69	0.552	-0.2581	**********	
12.48	46.16	0.640	-0.1936	********** -->	54
6.96	53.12	0.743	-0.1291	**********	
12.07	65.18	0.862	-0.0645	********** -->	52
7.07	72.24	1.000	-0.0000	**********	
11.71	83.94	1.160	0.0645	********** -->	51
8.10	92.04	1.346	0.1290	**********	
3.25	95.28	1.561	0.1935	**********	
2.99	98.27	1.811	0.2580	**********	
0.46	98.74	2.102	0.3225	**	
0.41	99.15	2.438	0.3871	**	
0.15	99.30	2.829	0.4516	*	
0.21	99.51	3.282	0.5161	*	
0.10	99.61	3.807	0.5806		
0.21	99.82	4.417	0.6451	*	
0.00	99.82	5.124	0.7096		
0.05	99.87	5.945	0.7741		
0.00	99.87	6.897	0.8387		
0.00	99.87	8.002	0.9032		
0.00	99.87	9.283	0.9677		
0.05	99.92	10.770	1.0322		
0.05	99.97	12.494	1.0967		

0 1 2 3 4

Each "*" represents approximately 4.5 observations.

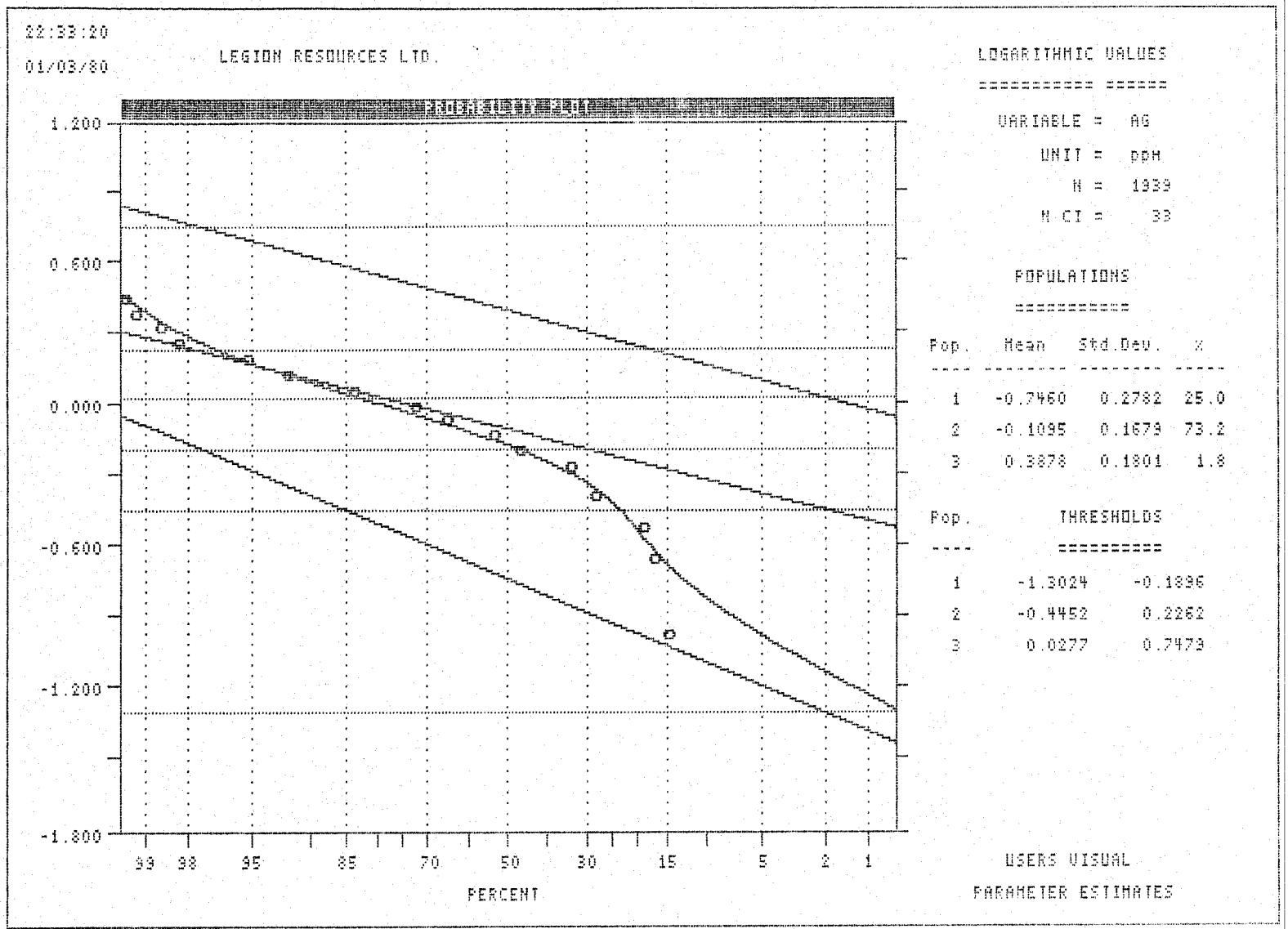


Figure 10 : Cumulative Probability Plot for Silver

Table 4 : Summary for Silver

22:34:20 LEGION RESOURCES LTD. 01/03/80

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = \DATA\HTALL.PPP

Variable = AG Unit = ppm N = 1939
N CI = 33

Transform = Logarithmic Number of Populations = 3

# of Missing Observations = 0.

==========

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	0.179	-	0.095	25.00
		+	0.341	
2	0.777	-	0.528	73.20
		+	1.144	
3	2.442	-	1.613	1.80
		+	3.697	

==========

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	0.050	0.646
2	0.359	1.683
3	1.066	5.597

##

6.4 Geophysics

During November 1988, a time domain induced polarization survey was conducted over the claim are by M. St. Pierre. The complete report on this survey has been attached as Appendix 2. A total of 11.7 line km were surveyed on ten lines striking N109°E lines. The results defined and extended the mineralized zones in Wilds Creek (Zone #1) and the East Zone (Zone #3) (see Figure 14). In addition three new zones of interest were outlined. Between Wilds Creek and the East Zone a new anomaly was outlined (Trend #2). This anomalous trend (chargeability up to 41 mt msec with corresponding resistivity lows) extends from L8S to L14S between 250W to 400W and possibly extends up to 4N. The resistivity values vary greatly within the anomaly and generally the trend seems to increase in depth to the north.

A new zone (Zone #4) between L4N and L0N was discovered. On line 4N the anomaly extends from 25W to 475E and is separated into two parts by an area of low chargeabilities at about 275E. On line 0N the anomaly extends from about 150E to 275E. Resistivity values vary greatly with low values often associated with high chargeabilities.

A fifth anomaly (Zone #5) extends from L16N to 20N at about 50W. This anomaly is narrow and contained within a high resistivity zone that seems to be dipping steeply to the west.

Other scattered anomalies exist within the survey area but do not seem to form recognizable trends.

7.0 DISCUSSION OF RESULTS

The 1988 program on the Liz, John 2, Tag, Bid and Rex claims of Legion Resources Ltd. was designed to coordinate all old work, fill in gaps within the data base, extend if possible known mineralized zones and explore the remaining claim area. The program was successful in all goals. By clearing and surveying many of the old logging roads present on the claim group excellent access was provided as well as good control for geologic mapping and line cutting. The geochemical program filled in the gaps between 1978 Cominco sampling and 1985 sampling on the John 2 claim. An induced polarization survey over parts of the property resulted in the discovery of 5 anomalous zones (see Figure 14).

ZONE 1

This zone represents the known mineralized horizon (Main Zone) drilled previously. IP lines were run over this zone to determine the kind of geophysical response banded pyrite-sphalerite would give. The mineralization was picked up on lines 8S and 14S. Soil geochemistry gave zinc anomalies along this zone and trended off to the southwest.

ZONE 2

This zone consists of IP anomalies on lines 8S, 12S and 14S with coincident zinc soil anomalies.

ZONE 3

This area has anomalous IP results on lines 12S and 14S with coincident soil anomalies for zinc, lead and silver. This zone might be a southern extention of Zone 4 previously known as the east zone.

ZONE 4

By far the largest of the anomalous areas this zone consists of a zinc soil anomaly 1 km long and up to 400 m wide with values reaching 1.1 % Zn in soils. Overlapping the zinc anomaly is an anomalous lead zone 700 m in

length with scattered silver anomalies. Just north of these soil anomalies and topographically higher is a large IP anomaly detected on lines 0N and 4N. Rock samples indicate high copper-silver values in small quartz veins as well with sample 11171 assaying 5.31 oz Ag/ton and .62% Cu across 3 cm. and 11160 assaying 3.2 oz Ag/ton and 2% Cu across 10 cm.

This zone is especially interesting due to the dimensions and magnitude of the lead-zinc soil anomalies occurring nearly 1 km in elevation above the mineralized zone in Wilds Creek.

ZONE 5

While anomalous in IP response the lack of any geochemical anomalies relagates this zone to low priority.

Scattered high silver values on the John 2 claims should be prospected further.

8.0 COST STATEMENT

PROFESSIONAL FEES:		
G. H. Giroux	10.13 days @ $400	4,050.00
WAGES:		
H. Tysseland	17.0 days @ $216	3,672.00
S. Berryman	30.0 days @ $216	6,480.00
D. McLellan	35.0 days @ $216	7,560.00
D. Rondeau	27.0 days @ $216	5,832.00
R. New	23.0 days @ $216	4,968.00
M. Wasel	35.0 days @ $320	11,200.00
	Sub-total	43,762.00
EXPENSES:		
Airfare		2,484.00
Food/Accommodations		8,152.45
Gas/oil		847.26
Equipment/supplies		1,850.10
Transportation		192.64
Vehicle use/km		2,813.13
Vehicle rental		4,025.89
Misc.		160.31
Field supplies/rental		192.31
Chainsaw rental		248.70
DC6 catwork		2,943.43
Geochem analysis		2,201.50
Computer costs		30.00
Reproduction costs/photocopies		93.18
Typing/bookkeeping		730.00
Office help		425.00
IP Survey		27,600.00
Reclamation bond		1,154.03
Stamps/wire charges		52.29
Courier		21.22
TOTAL:		$100,000.88

G.H. Giroux, P.Eng.
January 15, 1989

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
G. H. GIROUX

9.0 CERTIFICATE

I G. H. Giroux, of 982 Broadview Drive, North Vancouver, British Columbia, do hereby certify that:

1. I am a consulting geological engineer with an office at #701 - 675 West Hastings Street, Vancouver, British Columbia.

2. I am a graduate of the University of British Columbia in 1970 with a B.A. Sc. and in 1984 with a M.A. Sc. both in Geological Engineering.

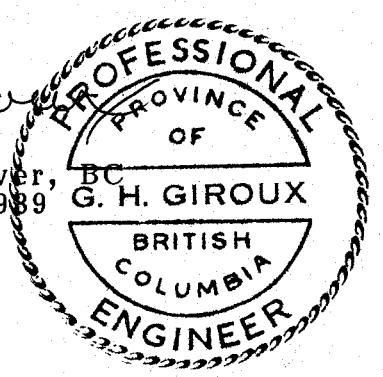
3. I have practiced by profession continuously since 1970.

4. I am a member in good standing of the Association of Professional Engineers of the Province of British Columbia.

5. I have no interest, either direct or indirect in the properties or securities of Legion Resources Ltd., nor do I expect to receive any such interest.

6. I consent to the use of this report by Legion Resources Ltd. in submissions to the B.C. Superintendent of Brokers and the Vancouver Stock Exchange and to distribute all or parts of the report to shareholders or other parties, provided that the meaning is not altered by partial quotes.

G. H. Giroux
North Vancouver, BC
January 15, 1989



10.0 BIBLIOGRAPHY

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APPENDIX I

1988 SOIL GEOCHEMISTRY RESULTS

MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
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TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Analytical Report

Company:MONTGOMERY CONSULTANTS
Project:88HT1
Attention:G.GIROUX

File:8-2090
Date:NOV 28/88
Type:SOIL GEOCHEM

Date Samples Received :NOV 16/88
Samples Submitted by :M.WASEL

Report on .....898 SOILS..... Geochem Samples
..... Assay Samples
.....

Copies sent to:
1. MONTGOMERY CONSULTANTS, VANCOUVER, B.C.
2.
3.

Samples: Sieved to mesh .....-80..... Ground to mesh .....

Prepared samples stored:.....X..... discarded:.....
rejects stored:..... discarded:.....X.....

Methods of analysis:

PB,ZN,AG-MULTI ACID A.A.ANALYSIS

Remarks

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TELEPHONE: (705) 264-9996

Certificate of GEOCHEM

Company: MONTGOMERY CONSULTANTS
Project: 88HT1
Attention: G.GIROUX

File: 8-2090/P1
Date: NOV.25/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM
SB 001	32	107	1.0
SB 002	30	174	0.7
SB 003	23	146	0.8
SB 004	18	77	0.6
SB 005	23	111	0.6
SB 006	26	108	0.6
SB 007	24	89	0.6
SB 008	16	31	0.5
SB 009	44	565	0.6
SB 010	32	390	0.5
SB 011	34	260	0.6
SB 012	27	2350	0.7
SB 013	N/S		
SB 014	23	745	0.6
SB 015	N/S		
SB 016	17	215	0.8
SB 017	10	540	0.4
SB 018	24	158	0.8
SB 019	20	135	0.6
SB 020	24	81	1.2
SB 021	21	69	0.6
SB 022	23	82	1.0
SB 023	31	167	0.8
SB 024	76	500	0.7
SB 025	64	485	1.0
SB 026	54	530	0.8
SB 027	34	270	1.0
SB 028	47	370	0.8
SB 028	74	220	1.2
SB 030	320	360	11.6

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TELEPHONE: (705) 264-9996

Certificate of Geochem

Company: MONTGOMERY CONS
Project: 88HT1
Attention: G.GIROUX

File: 8-2090/P2
Date: NOV.25/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM
SB 031	334	734	2.5
SB 032	187	690	0.7
SB 033	56	350	0.6
SB 034	67	410	0.8
SB 035	58	285	0.8
SB 036	N/S		
SB 037	88	245	0.8
SB 038	131	375	1.4
SB 039	56	330	0.6
SB 040	85	285	1.2
SB 041	87	230	0.8
SB 042	77	290	0.8
SB 043	118	320	0.7
SB 044	61	240	0.6
SB 045	52	575	0.5
SB 046	N/S		
SB 047	84	395	0.4
SB 048	143	530	0.9
SB 049	96	575	0.8
SB 050	32	215	0.4
SB 051	36	300	0.4
SB 052	665	2550	1.0
SB 053	310	1860	1.2
SB 054	82	1270	0.6
SB 055	320	1650	0.8
SB 056	N/S		
SB 057	33	112	0.5
SB 058	34	113	0.8
SB 059	89	530	0.9
SB 060	76	465	0.6

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TELEPHONE: (705) 264-9996

Certificate of Geochem

Company: MONTGOMERY CONS
Project: 88HT1
Attention: G.GIROUX

File: 8-2090/P3
Date: NOV.25/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM
SB 061	38	144	1.0
SB 062	76	325	1.1
SB 063	75	300	0.9
SB 064	65	465	0.9
SB 065	54	255	1.0
SB 066	36	176	0.9
SB 067	57	575	0.7
SB 068	49	325	0.8
SB 069	50	220	0.9
SB 070	3180	11000	4.2
SB 071	68	510	1.4
SB 072	57	715	1.4
SB 073	72	565	1.0
SB 074	36	152	0.8
SB 075	26	128	0.8
SB 076	51	129	0.6
SB 077	200	255	1.0
SB 078	51	174	0.8
SB 079	40	230	0.9
SB 080	34	205	0.6
SB 081	42	250	0.9
SB 082	34	430	0.9
SB 083	29	245	1.1
SB 084	63	310	0.6
SB 085	73	315	0.6
SB 086	68	410	0.8
SB 087	65	620	0.4
SB 088	167	2100	0.8
SB 089	49	205	0.8
SB 090	54	173	0.7

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Company: MONTGOMERY CONS
Project: 88HT1
Attention: G.GIROUX

File: 8-2090/P4
Date: NOV.25/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM
SB 091	81	510	1.0
SB 092	410	225	1.2
SB 093	187	280	1.4
SB 094	75	3100	0.6
SB 095	62	1190	0.8
SB 096	51	440	0.6
SB 097	68	1050	0.4
SB 098	35	1210	0.8
SB 099	83	2500	0.8
SB 100	47	500	0.8
SB 101	72	495	0.6
SB 102	58	265	0.8
SB 103	780	2500	1.2
SB 104	640	2250	1.8
SB 105	88	690	1.0
SB 106	47	265	1.0
SB 107	60	190	1.2
SB 108	44	230	0.9
SB 109	50	205	0.8
SB 110	41	148	0.6
SB 111	27	97	0.6
SB 112	29	83	1.0
SB 113	31	84	1.0
SB 114	20	81	0.8
SB 115	12	42	0.4
SB 116	20	74	0.6
SB 117	17	87	0.6
SB 118	23	75	0.8
SB 119	22	69	0.6
SB 120	32	76	0.6

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TELEPHONE: (705) 264-9996

Certificate of Geochem

Company: MONTGOMERY CONS
Project: 88HT1
Attention: G.GIROUX

File: 8-2090/P5
Date: NOV.25/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM
SB 121	51	170	1.0
SB 122	102	411	1.4
SB 123	83	276	1.4
SB 124	N/S		
SB 125	44	75	0.6
SB 126	22	70	0.4
SB 127	31	44	0.2
SB 128	29	51	0.4
SB 129	23	54	0.3
SB 130	34	89	0.3
SB 131	50	249	0.4
SB 132	63	460	0.4
SB 133	40	365	0.4
SB 134	66	442	0.3
SB 135	88	375	0.6
SB 136	64	337	0.4
SB 137	34	249	0.4
SB 138	108	421	0.6
SB 139	194	835	1.0
SB 140	70	215	0.6
SB 141	62	282	0.7
SB 142	82	456	1.0
SB 143	78	580	0.9
SB 144	258	1640	0.4
SB 145	305	909	2.0
SB 146	87	440	0.6
SB 147	63	739	0.6
SB 148	136	1040	0.7
SB 149	148	719	0.5
SB 150	122	750	1.0

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Certificate of Geochem

Company: MONTGOMERY CONS
Project: 88HT1
Attention: G.GIROUX

File: 8-2090/P6
Date: NOV.25/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM
SB 151	59	339	1.1
SB 152	78	470	0.6
SB 153	81	635	0.6
SB 154	220	1350	1.2
SB 155	490	1040	1.2
SB 156	265	1580	1.0
SB 157	35	178	0.7
SB 158	47	499	0.8
SB 159	38	167	1.2
SB 160	58	545	0.8
SB 161	1090	4000	1.8
SB 162	2940	7100	5.2
SB 163	1000	3750	3.0
SB 164	166	1490	1.8
SB 165	216	1290	1.0
SB 166	127	1040	0.9
SB 167	117	2850	0.8
SB 168	N/S		
SB 169	75	1090	0.6
SB 170	100	2850	0.8
SB 171	93	1020	0.8
SB 172	80	764	1.2
SB 173	44	450	0.8
SB 174	172	1050	0.8
SB 175	107	501	1.0
SB 176	49	470	1.1
SB 177	48	297	0.8
SB 178	49	489	1.2
SB 179	67	770	1.4
SB 180	85	515	1.1

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Company: MONTGOMERY CONS
Project: 88HT1
Attention: G. GIROUX

File: 8-2090/P7
Date: NOV. 25/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM
SB 181	54	290	0.9
SB 182	73	601	1.0
SB 183	52	445	0.8
SB 184	33	178	1.8
SB 185	28	145	0.8
SB 186	31	156	1.0
SB 187	33	186	0.7
SB 188	83	430	0.5
SB 189	68	500	0.8
SB 190	42	340	0.8
SB 191	28	149	0.9
SB 192	44	133	1.0
SB 193	38	119	0.6
SB 194	35	155	0.7
SB 195	36	158	1.0
SB 196	25	127	0.8
SB 197	23	125	0.8
SB 198	30	135	1.2
SB 199	20	131	0.6
SB 200	32	166	0.9
SB 201	25	160	0.7
SB 202	18	109	0.8
SB 203	30	175	1.0
SB 204	30	186	0.7
SB 205	26	150	0.4
SB 206	28	172	0.6
SB 207	21	120	0.4
SB 208	33	189	1.0
SB 209	28	162	0.8
SB 210	31	180	0.7

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Company: MONTGOMERY CONS
Project: 88HT1
Attention: G.GIROUX

File: 8-2090/P8
Date: NOV.25/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM
SB 211	500	1410	1.9
SB 212	302	1510	0.8
SB 213	N/S		
SB 214	67	408	1.0
SB 215	52	400	1.0
SB 216	48	331	0.9
SB 217	56	292	0.8
SB 218	49	239	0.6
SB 219	104	640	0.8
SB 220	168	700	0.8
SB 221	63	259	0.7
SB 222	47	301	0.6
SB 223	76	449	0.8
SB 224	98	405	1.0
SB 225	137	391	1.0
SB 226	48	190	1.0
SB 227	43	301	0.6
SB 228	52	199	0.7
SB 229	66	245	0.8
SB 230	150	599	0.4
SB 231	72	445	0.8
DM 001	60	318	1.0
DM 002	43	604	0.8
DM 003	86	990	1.6
DM 004	38	201	0.8
DM 005	45	240	1.2
DM 006	152	599	1.0
DM 007	22	69	0.8
DM 008	17	53	0.6
DM 009	23	70	1.2

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Company: MONTGOMERY CONSULTANTS
Project: 88HT1
Attention: G. GIROUX

File: 8-2090/P9
Date: NOV 25/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM
DM 010	28	61	1.2
DM 011	26	62	1.0
DM 012	27	49	.8
DM 013	21	43	.8
DM 014	20	50	1.0
DM 015	14	42	.6
DM 016	18	84	.8
DM 017	17	51	.7
DM 018	26	70	1.3
DM 019	23	100	1.0
DM 020	29	108	.8
DM 021	72	152	.7
DM 022	23	133	1.4
DM 023	26	115	1.2
DM 024	26	130	1.4
DM 025	25	67	1.0
DM 026	35	61	.8
DM 027	34	70	1.0
DM 028	25	60	.8
DM 029	23	72	.8
DM 030	25	79	.9
DM 031	20	63	.6
DM 032	21	64	.6
DM 033	23	65	.6
DM 034	23	81	.8
DM 035	23	74	.6
DM 036	19	61	.6
DM 037	17	50	.4
DM 038	21	56	.6
DM 039	20	62	.7

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File: 8-2090/P10
Date: NOV 25/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM
DM 040	23	134	1.0
DM 041	30	73	.4
DM 042	34	68	.4
DM 043	25	94	1.2
DM 044	36	143	1.1
DM 045	62	200	1.2
DM 046	66	204	1.1
DM 047	100	191	1.0
DM 048	27	257	1.1
DM 049	26	122	.8
DM 050	27	78	.8
DM 051	43	124	.9
DM 052	29	117	.9
DM 053	27	110	.8
DM 054	23	82	.9
DM 055	18	94	.4
DM 056	26	97	.8
DM 057	25	104	.6
DM 058	22	100	.8
DM 059	34	79	.8
DM 060	17	70	.6
DM 061	24	98	.8
DM 062	22	87	.8
DM 063	22	90	.7
DM 064	19	81	.4
DM 065	65	396	.8
DM 066	21	100	.4
DM 067	24	103	.5
DM 068	43	90	1.2
DM 069	26	78	.7

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Company: MONTGOMERY CONSULTANTS
Project: 88HT1
Attention: G.GIROUX

File: 8-2090/P11
Date: NOV 25/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM
DM 069	NO SAMPLE		
DM 070	24	85	1.0
DM 071	25	80	.8
DM 072	27	109	1.6
DM 073	26	127	.6
DM 074	35	151	1.0
DM 075	29	170	.8
DM 076	38	190	1.2
DM 077	43	150	.7
DM 078	65	132	1.4
DM 079	51	122	.8
DM 080	45	140	1.0
DM 081	55	121	1.0
DM 082	62	142	.8
DM 083	125	258	1.1
DM 084	51	180	.8
DM 085	25	127	.8
DM 086	31	110	.9
DM 087	27	188	1.0
DM 088	27	100	.8
DM 089	43	224	1.3
DM 090	35	180	1.2
DM 091	65	185	2.6
DM 092	46	146	1.0
DM 093	45	118	.4
DM 094	96	263	.7
DM 095	45	440	1.0
DM 096	55	276	1.0
DM 097	60	152	.8
DM 098	48	123	1.2

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Company: MONTGOMERY CONSULTANTS
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Attention: G.GIROUX

File: 8-2090/P12
Date: NOV 25/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM
DM 099	66	132	.8
DM 100	98	296	.8
DM 101	205	217	1.1
DM 102	122	330	1.0
DM 103	106	350	.6
DM 104	67	276	.6
DM 105	200	800	.8
DM 106	430	1240	1.8
DM 107	415	1560	1.2
DM 108	264	1470	1.0
DM 109	297	1830	.8
DM 110	121	760	.9
DM 111	85	462	1.2
DM 112	60	235	1.0
DM 113	173	720	.8
DM 114	56	203	.7
DM 115	36	114	.9
DM 116	29	100	.9
DM 117	26	108	.8
DM 118	20	121	.8
DM 119	23	112	.6
DM 120	27	100	.7
DM 121	26	72	.5
DM 122	25	78	.4
DM 123	16	30	.3
DM 124	14	44	.2
DM 125	15	49	.3
DM 126	115	610	.9
DM 127	NO SAMPLE		
DM 128	32	102	.4

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Company: MONTGOMERY CONS
Project: 88HT1
Attention: G. GIROUX

File: 8-2090/P13
Date: NOV. 25/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM
DM 129	19	127	1.0
DM 130	22	48	0.5
DM 131	25	71	0.9
DM 132	26	79	0.7
DM 133	23	80	1.2
DM 134	84	460	0.8
DM 135	186	350	1.0
DM 136	190	435	1.4
DM 137	123	1280	1.1
DM 138	71	325	1.3
DM 139	80	230	1.4
DM 140	47	290	0.9
DM 141	49	500	1.2
DM 142	55	960	1.0
DM 143	52	200	0.7
DM 144	48	147	0.6
DM 145	33	112	0.6
DM 146	89	305	0.7
DM 147	96	225	1.0
DM 148	90	385	0.7
DM 149	100	470	0.9
DM 150	102	620	1.1
DM 151	48	139	0.6
DM 152	205	900	1.1
DM 153	N/S		
DM 154	275	1950	0.7
DM 155	325	1140	1.3
DM 156	50	325	0.8
DM 157	19	162	0.6
DM 158	27	148	0.8

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Project: 88HT1
Attention: G.GIROUX

File: 8-2090/P14
Date: NOV.25/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM
DM 159	49	260	1.2
DM 160	54	265	1.1
DM 161	42	260	0.9
DM 162	32	157	1.2
DM 163	26	86	0.8
DM 164	18	85	0.9
DM 165	21	91	0.6
DM 166	23	97	1.0
DM 167	24	189	1.1
DM 168	20	215	0.7
DM 169	11	38	0.4
DM 170	16	86	0.7
DM 171	200	375	1.0
DM 172	113	315	1.2
DM 173	96	500	1.6
DM 174	N/S		
DM 175	97	106	2.3
DM 176	11	37	0.4
DM 177	18	52	0.3
DM 178	19	61	0.5
DM 179	21	75	0.4
DM 180	13	24	0.7
DM 181	70	265	1.3
DM 182	25	430	1.2
DM 183	17	172	1.0
DM 184	27	310	1.3
DM 185	49	178	1.1
DM 186	53	480	1.2
DM 187	62	420	0.7
DM 188	172	450	3.0

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Company: MONTGOMERY CONS
Project: 88HT1
Attention: G.GIROUX

File: 8-2090/P15
Date: NOV.25/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM
DM 189	124	1320	1.1
DM 190	380	1630	1.2
DM 191	178	1080	1.4
DM 192	195	1100	1.3
DM 193	81	1070	1.2
DM 194	122	690	1.6
DM 195	123	990	1.1
DM 196	86	3400	1.5
DM 197	54	415	1.2
DM 198	60	420	1.6
DM 199	127	375	1.5
DM 200	71	460	1.3
DM 201	83	580	1.0
DM 202	135	750	1.6
DM 203	56	390	1.4
DM 204	46	435	1.2
DM 205	44	410	1.3
DM 206	41	275	0.9
DM 207	50	310	1.5
DM 208	51	152	1.1
DM 209	32	139	0.8
DM 210	52	171	0.7
DM 211	146	600	0.8
DM 212	38	320	1.0
DM 213	57	192	0.7
DM 214	49	195	0.7
DM 215	34	142	1.2
DM 216	30	110	0.7
DM 217	25	89	1.1
DM 218	21	108	0.8

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Company: MONTGOMERY CONS
Project: 88HT1
Attention: G.GIROUX

File: 8-2090/P16
Date: NOV.25/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM
DM 219	21	142	1.1
DM 220	26	171	1.0
DM 221	16	125	0.7
DM 222	13	80	0.6
DM 223	19	78	0.7
DM 224	25	127	0.9
DM 225	27	139	0.9
DM 226	31	120	1.0
DM 227	33	142	0.7
DM 228	22	119	0.9
DM 229	38	134	1.0
DM 230	53	146	1.2
DM 231	26	200	0.9
DM 232	27	148	0.8
DM 233	52	235	1.4
DM 234	51	255	1.0
DM 235	56	250	1.0
DM 236	46	340	1.1
DM 237	27	162	0.8
DM 238	23	170	0.8
DM 239	22	205	0.7
DM 240	23	225	1.0
DM 241	30	182	0.9
DM 242	21	159	0.7
DM 243	13	210	0.8
DM 244	24	225	1.2
DM 245	63	160	0.5
DM 246	25	245	1.2
DM 247	27	162	0.7
DM 248	23	150	1.0

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Company: MONTGOMERY CONS
Project: 88HT1
Attention: G.GIROUX

File: 8-2090/P17
Date: NOV.25/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM
DM 249	26	168	1.3
DM 250	30	94	1.0
DM 251	27	102	1.2
DM 252	28	113	1.1
DM 253	25	78	1.1
DM 254	29	100	1.5
DM 255	31	130	1.0
DM 256	32	132	0.6
DM 257	26	163	1.2
DM 258	23	98	0.7
RN 030	17	66	0.7
RN 031	26	93	1.4
RN 032	20	81	1.3
RN 033	21	172	0.8
RN 034	20	425	0.7
RN 035	30	200	0.9
RN 036	24	149	1.3
RN 037	25	132	1.2
RN 038	26	197	1.5
RN 039	64	51	0.8
RN 040	41	54	1.1
RN 041	18	53	0.7
RN 042	19	53	0.9
RN 043	62	290	2.2
RN 044	24	147	0.8
RN 045	14	58	0.4
RN 046	52	365	1.8
RN 047	26	123	0.7
RN 048	30	108	0.7
RN 049	25	130	1.0

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TELEPHONE: (705) 264-9996

Certificate of Geochem

Company: MONTGOMERY CONS
Project: 88HT1
Attention: G.GIROUX

File: 8-2090/P18
Date: NOV.25/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM
RN 050	32	127	0.7
RN 051	33	131	1.1
RN 052	33	184	1.4
RN 053	36	305	1.6
RN 054	21	220	1.0
RN 055	35	195	1.8
RN 056	22	77	1.5
RN 057	16	64	0.6
RN 058	68	96	2.2
RN 059	44	93	1.2
RN 060	54	63	0.7
RN 061	41	65	0.9
RN 062	24	92	0.4
RN 063	16	57	0.6
RN 064	16	81	0.5
RN 065	19	71	0.9
RN 066	20	73	1.0
RN 067	21	87	0.7
RN 068	33	115	0.7
RN 069	19	78	0.5
RN 070	19	72	0.6
RN 071	22	36	1.5
RN 072	32	31	0.4
RN 073	24	50	0.8
RN 074	16	53	0.7
RN 075	18	27	0.7
RN 076	26	144	0.6
RN 077	29	335	1.4
RN 078	147	465	1.2
RN 079	25	127	1.1

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Company: MONTGOMERY CONS
Project: 88HT1
Attention: G. GIROUX

File: 8-2090/P19
Date: NOV. 26/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM
RN 080	24	89	0.6
RN 081	21	81	0.4
RN 082	27	141	0.6
RN 083	26	150	0.6
RN 084	24	135	0.4
RN 085	45	173	2.7
RN 086	35	138	0.8
RN 087	16	71	0.3
RN 088	26	138	0.6
RN 089	21	181	0.6
RN 090	34	128	0.4
RN 091	22	81	0.4
RN 092	23	71	0.5
RN 093	25	89	0.4
RN 094	19	100	1.0
RN 095	20	110	1.0
RN 096	N/S		
RN 097	70	94	0.3
RN 098	24	327	0.6
RN 099	12	49	0.2
RN 100	23	149	0.4
RN 101	24	126	0.6
RN 102	31	140	0.5
RN 103	26	142	0.4
RN 104	27	149	0.5
RN 105	24	86	0.4
RN 106	19	90	0.6
RN 107	47	249	0.7
RN 108	50	198	0.6
RN 109	63	210	0.6

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Company: MONTGOMERY CONS
Project: 88HT1
Attention: G. GIROUX

File: 8-2090/P20
Date: NOV. 26/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM
RN 110	50	153	0.6
RN 111	51	169	0.5
RN 112	40	325	0.2
RN 113	67	448	0.4
RN 114	43	181	0.4
RN 115	30	176	0.4
RN 116	43	171	0.5
RN 117	36	188	0.6
RN 118	33	150	0.4
RN 119	36	210	0.5
RN 120	31	159	0.6
RN 121	34	169	0.4
RN 122	26	120	0.4
RN 123	25	149	0.5
RN 124	24	165	0.2
RN 125	23	151	0.4
RN 126	17	72	0.4
RN 127	17	108	0.3
RN 128	16	41	0.3
RN 129	26	130	0.4
RN 130	31	111	0.4
RN 131	32	135	0.4
RN 132	29	160	0.4
RN 133	32	155	0.6
RN 134	31	119	0.5
RN 135	28	103	0.4
RN 136	33	128	0.3
RN 137	36	119	0.2
RN 138	38	163	0.3
RN 139	35	106	0.6

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Company: MONTGOMERY CONS
Project: 88HT1
Attention: G. GIROUX

File: 8-2090/P21
Date: NOV. 26/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM
RN 140	35	168	0.6
RN 141	33	109	0.4
RN 142	37	150	0.6
RN 143	64	269	0.4
RN 144	36	144	0.4
RN 145	38	150	0.4
RN 146	46	148	0.4
RN 147	63	281	0.4
RN 148	56	145	0.6
RN 149	56	215	0.5
RN 150	57	320	0.4
RN 151	62	291	0.4
RN 152	63	276	0.6
RN 153	188	220	0.4
RN 154	43	235	0.4
RN 155	28	86	0.6
RN 156	38	174	0.4
RN 157	95	423	0.6
RN 158	47	210	0.4
RN 159	38	232	0.5
RN 160	35	139	0.7
RN 161	33	173	0.4
RN 162	30	133	0.6
RN 163	39	78	0.4
RN 164	31	85	0.5
RN 165	25	50	0.3
RN 166	35	78	0.4
RN 167	36	85	0.4
RN 168	39	162	0.4
RN 169	77	239	0.6

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Company: MONTGOMERY CONS
Project: 88HT1
Attention: G.GIROUX

File: 8-2090/P22
Date: NOV.26/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM
RN 170	152	209	0.9
RN 171	143	300	0.4
RN 172	45	148	0.6
RN 173	43	130	0.4
RN 174	60	209	0.5
RN 175	75	205	0.5
RN 176	147	349	0.4
RN 177	40	110	0.5
RN 178	73	115	0.3
RN 179	43	129	0.6
RN 180	N/S		
RN 181	37	168	0.4
RN 182	38	158	0.4
RN 183	32	215	0.4
RN 184	26	119	0.3
RN 185	68	1140	0.8
RN 186	42	319	0.3
RN 187	35	89	0.2
RN 188	38	77	0.2
RN 189	37	110	0.3
RN 190	27	112	0.2
RN 191	95	299	0.4
RN 192	133	555	0.4
RN 193	53	100	0.4
RN 194	42	151	0.7
RN 195	50	156	0.5
RN 196	122	195	0.5
RN 197	88	198	0.6
RN 198	70	195	0.8
RN 199	93	526	0.6

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Company: MONTGOMERY CONS
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File: 8-2090/P23
Date: NOV.26/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM
RN 200	83	410	0.7
RN 201	90	329	0.6
RN 202	100	408	1.0
RN 203	70	346	0.8
RN 204	145	370	1.2
RN 205	45	399	0.8
RN 206	55	534	0.4
RN 207	44	328	0.6
RN 208	25	311	0.2
RN 209	17	220	0.4
RN 210	14	85	0.3
RN 211	19	98	0.4
RN 212	21	100	0.5
RN 213	24	124	0.6
RN 214	25	81	0.4
RN 215	26	141	0.5
RN 216	26	855	0.4
RN 217	25	105	0.6
RN 218	28	190	0.6
RN 219	224	1130	0.8
RN 220	32	181	0.2
RN 221	17	72	0.2
RN 222	23	182	0.5
RN 223	355	767	0.4
RN 224	32	151	0.4
RN 225	23	320	0.5
RN 226	17	50	0.4
RN 227	25	111	0.4
RN 228	24	120	0.5
DR 001	35	120	1.2

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Company: MONTGOMERY CONS
Project: 88HT1
Attention: G.GIROUX

File: 8-2090/P24
Date: NOV.26/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM
DR 002	41	53	0.6
DR 003	67	76	1.0
DR 004	40	68	0.6
DR 005	32	107	0.4
DR 006	31	102	0.5
DR 007	15	69	0.4
DR 008	20	111	0.6
DR 009	19	109	0.4
DR 010	18	71	0.6
DR 011	21	89	0.5
DR 012	19	108	0.4
DR 013	26	132	0.6
DR 014	24	91	0.4
DR 015	23	104	0.6
DR 016	26	119	1.2
DR 017	32	143	1.2
DR 018	21	249	1.3
DR 019	25	203	1.6
DR 020	22	197	1.2
DR 037	24	146	1.2
DR 038	36	201	1.4
DR 039	33	192	0.5
DR 040	19	113	0.5
DR 041	26	228	0.5
DR 042	23	219	0.4
DR 043	58	268	0.4
DR 044	26	172	0.8
DR 045	27	159	0.6
DR 046	35	147	4.4
DR 047	162	293	1.1

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Company: MONTGOMERY CONS
Project: 88HT1
Attention: G.GIROUX

File: 8-2090/P25
Date: NOV.26/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM
DR 048	143	129	0.4
DR 049	49	83	0.7
DR 050	20	97	0.2
DR 051	19	114	0.2
DR 052	43	368	0.7
DR 053	99	960	1.2
DR 054	22	223	0.3
DR 055	54	675	0.5
DR 056	40	132	0.4
DR 057	15	68	0.4
DR 058	19	52	0.2
DR 059	20	91	0.2
DR 060	18	69	0.4
DR 061	19	88	0.4
DR 062	18	107	0.3
DR 063	23	71	0.4
DR 064	31	128	0.6
DR 065	20	193	0.4
DR 066	26	149	0.4
DR 067	21	94	1.0
DR 068	32	96	0.2
DR 069	29	48	0.3
DR 070	23	89	0.4
DR 071	22	82	0.3
DR 072	26	187	0.4
DR 073	27	118	0.5
DR 074	15	98	0.2
DR 075	31	112	0.8
DR 076	17	103	0.2
DR 077	20	138	0.4

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Company: MONTGOMERY CONS
Project: 88HT1
Attention: G.GIROUX

File: 8-2090/P26
Date: NOV.26/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM
DR 078	17	101	0.5
DR 079	15	56	0.2
DR 080	18	81	0.5
DR 081	12	160	0.2
DR 082	20	62	0.4
DR 083	22	10	0.3
DR 084	27	148	0.6
DR 085	20	91	0.2
DR 086	16	70	0.4
DR 087	15	69	0.6
DR 088	23	58	0.7
DR 089	17	94	0.4
DR 090	12	125	0.5
DR 091	18	94	0.4
DR 092	19	95	0.6
DR 093	17	101	0.8
DR 094	19	68	0.4
DR 095	12	34	0.5
DR 096	12	47	1.0
DR 097	20	67	0.3
DR 098	17	60	0.4
DR 099	17	77	0.6
DR 100	12	108	0.4
DR 101	19	61	0.9
DR 102	18	121	0.5
DR 103	35	102	0.4
DR 104	21	96	0.3
DR 105	12	100	0.4
DR 106	18	121	0.5
DR 107	20	100	0.4

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Company: MONTGOMERY CONS
Project: 88HT1
Attention: G.GIROUX

File: 8-2090/P27
Date: NOV. 26/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM
DR 108	26	146	0.7
DR 109	25	100	0.5
DR 110	50	338	2.0
DR 111	25	156	1.2
DR 112	38	250	0.6
DR 113	36	180	1.2
DR 114	37	123	0.7
DR 115	44	135	0.6
DR 116	33	148	0.6
DR 117	53	189	0.9
DR 118	105	341	1.0
DR 119	67	391	0.5
DR 120	62	518	0.6
DR 121	38	281	0.6
DR 122	75	394	0.7
DR 123	387	970	0.6
DR 124	133	451	0.2
DR 125	93	320	0.6
DR 126	62	700	0.5
DR 127	30	265	0.2
DR 128	62	389	0.4
DR 129	150	899	0.6
DR 130	102	1010	0.4
DR 131	54	291	0.4
DR 132	28	124	0.6
DR 133	34	160	0.6
DR 135	26	219	0.4
DR 136	20	162	0.3
DR 137	24	204	0.5
DR 138	22	156	0.4

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Company: MONTGOMERY CONSULTANTS
Project: 88HT1
Attention: G.GIROUX

File: 8-2090/P2B
Date: NOV 28/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM
DR 139	27	248	0.8
DR 140	22	201	0.9
DR 141	24	114	0.9
DR 142	29	284	0.7
DR 143	25	206	0.6
DR 144	28	364	0.7
DR 145	29	702	0.7
DR 146	25	168	0.6
DR 147	39	101	0.6
DR 148	84	2200	1.2
DR 149	62	795	0.9
DR 150	23	173	0.5
DR 151	26	261	0.6
DR 152	32	322	0.7
DR 153	27	99	0.4
DR 154	21	266	0.4
DR 155	54	645	0.8
DR 156	24	226	0.6
DR 157	133	1450	0.8
DR 158	32	298	0.8
DR 159	21	900	0.6
DR 160	24	145	0.8
DR 161	29	130	1.0
DR 162	39	171	1.9
DR 163	24	149	0.9
DR 164	21	128	0.8
DR 165	39	200	0.8
DR 166	106	765	0.9
DR 167	38	255	0.7
DR 168	51	434	0.8

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Company: MONTGOMERY CONSULTANTS
Project: 88HT1
Attention: G.GIROUX

File: 8-2090/P29
Date: NOV 28/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM
DR 169	41	620	1.0
DR 170	117	635	0.9
DR 171	172	725	1.2
DR 172	62	549	1.1
DR 173	253	700	1.5
DR 174	69	589	0.7
DR 175	88	570	0.6
DR 176	51	340	0.7
DR 177	149	651	0.8
DR 178	57	210	0.9
DR 179	46	213	0.7
DR 180	48	157	0.6
DR 181	47	196	0.6
DR 182	39	192	0.7
DR 183	168	450	0.6
DR 184	153	380	0.8
DR 185	89	275	0.9
DR 186	51	125	0.8
DR 187	53	159	0.9
DR 188	38	150	1.0
DR 189	157	311	0.8
DR 190	143	245	0.9
DR 191	72	138	0.6
DR 192	109	356	1.1
DR 193	139	715	0.8
DR 194	149	819	0.6
DR 195	93	751	0.8
DR 196	76	602	1.2
DR 197	69	749	0.9
DR 198	161	1170	1.0

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33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Certificate of Geochem

Company: MONTGOMERY CONSULTANTS
Project: 88HT1
Attention: G. GIROUX

File: 8-2090/P30
Date: NOV 28/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM
DR 199	81	436	1.1
DR 200	49	480	0.8
DR 201	102	575	0.6
DR 202	39	196	0.9
DR 203	21	144	0.4
DR 204	14	60	0.5
DR 205	12	95	0.4
DR 206	11	54	0.4
DR 207	10	26	0.6
DR 208	17	109	0.5
DR 209	16	81	0.6
DR 210	18	168	0.6
DR 211	23	161	0.6
DR 212	19	102	0.5
DR 213	18	98	0.5
DR 214	14	49	0.6
DR 215	371	2780	2.9
DR 216	17	99	0.6
DR 217	26	157	0.6
DR 218	21	286	0.7
DR 219	16	50	0.4
DR 220	15	66	0.5
DR 221	25	99	0.6
DR 222	29	118	0.9
DR 223	28	138	0.6
DR 224	35	100	0.6
DR 225	22	118	0.7
DR 226	26	91	0.6
DR 227	54	110	0.5
DR 228	32	290	0.6

Certified by _____

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TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Certificate of Geochem

Company: MONTGOMERY CONSULTANTS
Project: 88HT1
Attention: G.GIROUX

File: 8-2090/P31
Date: NOV 28/88
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	AG PPM
DR 229	52	391	1.6
DR 230	18	88	0.5
DR 231	16	128	0.6
DR 232	19	140	0.7
DR 233	19	577	0.6
DR 234	14	191	0.5
DR 235	12	56	0.4
DR 236	21	96	0.7
DR 237	38	94	0.8
DR 238	31	88	1.3
DR 239	28	137	0.7
DR 240	42	182	0.8

Certified by _____

MIN-EN LABORATORIES LTD.

APPENDIX II
REPORT ON THE
INDUCED POLARIZATION SURVEY
ON THE LIZ B-JOHN PROPERTY

REPORT OF THE INDUCED POLARIZATION SURVEY

ON THE

LIZ B - JOHN PROPERTY

FOR

LEGION RESOURCES LTD.

NELSON MINING DIVISION
BRITISH COLUMBIA

NTS 82F/2
NORTH LATITUDE: 49°13'
WEST LONGITUDE: 116°33'

BY

MARTIN ST-PIERRE, B.Sc.
NOVEMBER 28, 1988

TABLE OF CONTENTS

SUMMARY

An induced polarization survey was conducted on the LIZ B-JOHN property for Legion Resources Limited. The survey defined and extended two previously known sulfide rich areas (Trend #1 and #3). It also defined three previously unknown anomalous trends (Trend #2, #4 and #5). The trends range from 200 m to 800 m but some are unbounded and probably extend further. Three isolated anomaly were also defined by the survey. The survey was done on lines spaced by 400 m and further induced polarization should be done on lines space by 100 m from L800N up to the extreme south of the property area.

Signed at Vancouver, B.C.

Martin St-Pierre, B.Sc.
November 25, 1988

INTRODUCTION

A time domain induced polarization survey was done on the LIZ B-JOHN property for Legion Resources Limited. The objectives of the survey were to define the induced polarization response of known sulfide rich areas, to determine extensions of these areas and to outline previously undiscovered areas.

SURVEY SPECIFICATION

The time domain induced polarization survey was performed using a Phoenix IPT-1 2Kw transmitter and an EDA IP-2 (BRGM ELREC-2C) receiver. The pulse length was 2 seconds and 4 integration windows were used for the chargeability (M_t) calculation. A dipole-dipole array was used with a dipole width of 25 m and four dipole separations (N=1 to 4).

The survey lines were separated by 400 m, except for L1400S and L1200S which were 200 m apart. A total of 11.7 line km was surveyed.

DISCUSSION OF INDUCED POLARIZATION RESULTS

The induced polarization data is presented in pseudosection form on Figures 1a and 1b. The anomalies are presented on a compilation plan map on Figure 2.

The anomalies are classified into three groups as follows: definite anomaly which has chargeability (M_t) values of high amplitude present on all separations (N=1 to 4), probable anomalies which have M_t values of medium amplitude usually on all N separations, possible anomalies which have high M_t values usually on separation of N>2.

The survey was conducted on lines separated by 400 m except for lines 1400S and 1200S which are 200 m apart. These large line intervals create difficulty in relating anomalies between lines although relationships have been recognized and five anomalous trends are interpreted.

Trend #1

This anomalous trend seems to extend from L1400S to L800S centered at about 550W. It has a strong expression on L1400S and L800S and what seems to be a very weak expression on L1200S. The apparent resistivity (RHO) values are low within the anomalies. On L800S the anomalous M_t values extend for at least 75 m to the west of station 550W on the N=4 separation indicating a relatively constant depth in the range of 50 m. On L1400S the anomaly is less than 25 m wide and seems to be steeply dipping.

Trend #2

This anomalous trend seems to extend from L1400S to L800S between 250W and 400W and possibly extends up to 400N. The M_t values of this anomaly peak in amplitude on L1200S. The RHO values vary greatly within the anomaly and generally the trend seems to increase in depth to the north.

Trend #3

This anomalous trend seems to extend from L1400S to L1200S at about 100W. The M_t values of this anomaly peak in amplitude on N=4 separation on L1200S. The RHO values on L1200S are low on the N=4 separation but on L1400S they are actually higher than background values for the area. The anomaly is narrow, probably less than 25 m, and seems to be dipping steeply.

Trend #4

This anomalous trend seems to extend from L00N to L400N. On L400N it extends from 25W to 475E and is separated into two parts by an area of low M_t values at about 275E. On L00N it extends from about 150E to 275E. The RHO values vary greatly with low values often associated with high M_t's; the western edge of the anomaly displays the highest RHO values. It is possible that M_t values of 9 to 10 msec on L400S at about 225E represent a faint expression of the same trend. On L00N the anomaly seems to be weakly dipping on its western flank.

Trend #5

This anomalous trend extends from L1600N to 2000N at about 50W. The anomaly is narrow, less than 25 m, is contained within a high RHO area and seems to be steeply dipping to the west.

Other anomalies exist within the survey area but do not seem to form recognizable trends. They are described individually in the following paragraph.

On L1400S at about 125E there are two high M_t values on N=4 which indicate a source in the range of 50 m in depth. On L1200S at about 725W there is a narrow area of moderate M_t values which seem to be dipping to the east. On L1600N from 225E to 375E there is an area of moderate M_t values which peak on the N=4 separation and is contained within a zone of very high RHO values.

Within the survey area there are zone of strong resistivity gradients which may represent a change in rock type or a change in the level of deformation. Usually the greater the deformation the lower the RHO value. These strong resistivity gradients are located at the following stations:

L1400S: 775W, 625W, 525W, 50W, 00E
L1200S: 600W, 300W, 125W
L 800S: 550W, 500W, 275W, 125W, 50W
L 400S: 450W, 200W, 00E, 75E, 325E
L 00S: 425W, 300W, 125E, 450E
L 400N: 275W, 225W, 50W, 00E, 375E, 525E
L 800N: 300E, 400E, 450E, 550E
L1200N: 100W, 25E, 325E, 600E
L1600N: 125W, 150E, 200E, 400E, 475E, 625E, 825E
L2000N: 200W, 50E, 175E, 250E, 350E, 475E, 550E

The large survey line separation (400 m) makes it very difficult to attribute the RHO values to definite rock units. In a broad sense the high RHO values (>10^3 Ohm-m) are related to the quartzite unit while inferior values can be relate to the dolomitic limestone, the shale or the phyllite units.

CONCLUSIONS AND RECOMMENDATIONS

The induced polarization survey was able to outline previously defined sulfide rich areas and also extend them (Trends #1 and #3). Trends #2, #4 and #5 were previously unknown. Considering a folded system plunging to the north and the effects of topography, trend #1, #2 and #3 could represent separate limbs of a fold and the wide anomaly of trend #4 on L400N could be a nose plunging into the mountain, explaining the absence of an anomaly on L800N. Between L800S and L00N the anomalies are at their weakest which might indicate the centre of a limb were an incompetent mineral bearing unit could pinch out. If this theory is correct then to the south of L1400S another nose could be encountered.

A follow-up induced polarization survey should be conducted from L800N to the extreme south of the property area. The lines should be spaced by 100 m to permit a better definition of anomalous trends and lithologies.

APPENDIX A

Certificate

CERTIFICATE

I, Martin St-Pierre, of the City of Vancouver in the Province of British Columbia, do hereby certify that:

I) I am a Consulting Geophysicist to the firm of Shangri-La Minerals Limited at #706-675 West Hastings Street, Vancouver, British Columbia, V6B 1N2.

II) I graduated in 1984 from McGill University in Montreal with a B.Sc. in Geophysics.

III) I have been involved in numerous mineral exploration programs since 1982.

IV) The geophysical portion of this report is based upon fieldwork carried out by myself and a crew from Shangri-La Minerals Limited for Legion Resources Limited from November 1 to November 18, 1988.

V) I have no direct or indirect interest in the property, nor in any securities of Legion Resources Limited or in any associated companies, nor do I expect to receive any.

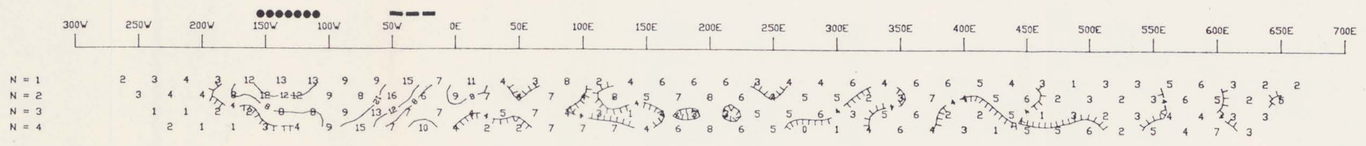
VI) This report may be utilized by Legion Resources Limited for inclusion in a Prospectus or Statement of Material Facts.

Respectfully submitted at Vancouver, B.C.

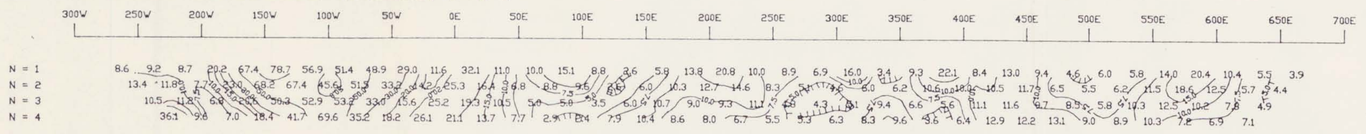
Martin St-Pierre, B.Sc.
November 28, 1988

LINE 2000N

CHARGEABILITY (Mt msec)

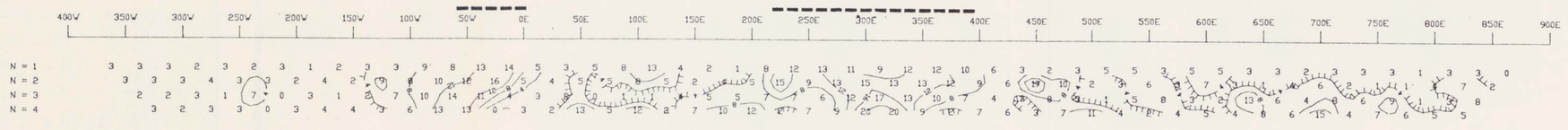


APPARENT RESISTIVITY (Rho Ohm-m*10^2)

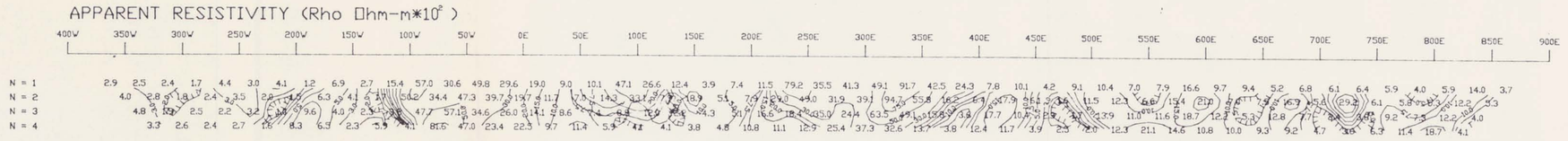


LINE 1600N

CHARGEABILITY (Mt msec)

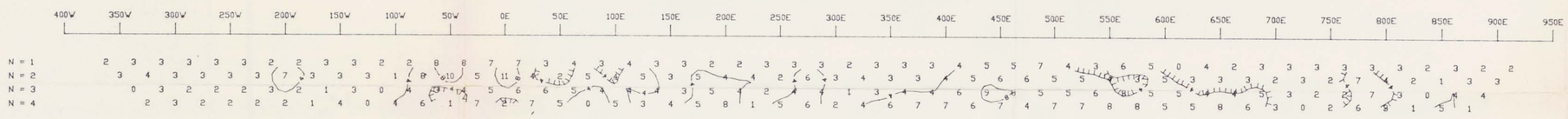


APPARENT RESISTIVITY (Rho Ohm-m*10^2)



LINE 1200N

CHARGEABILITY (Mt msec)



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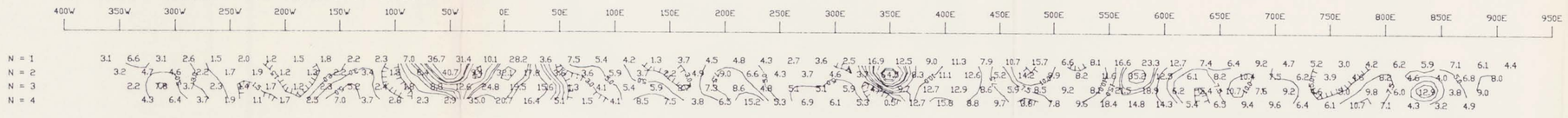
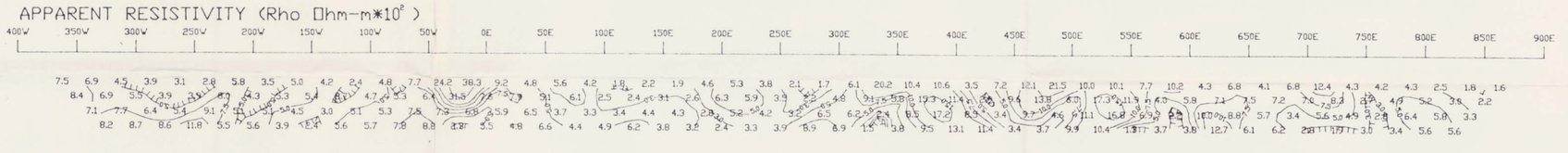


LINE 800N

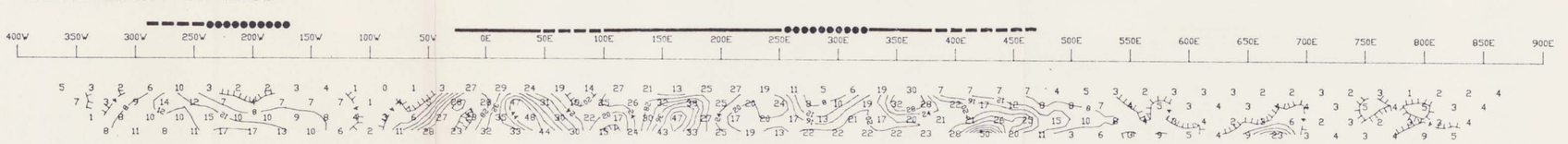
CHARGEABILITY (Mt msec)

APPARENT RESISTIVITY (Rho Ohm-m*10^2)

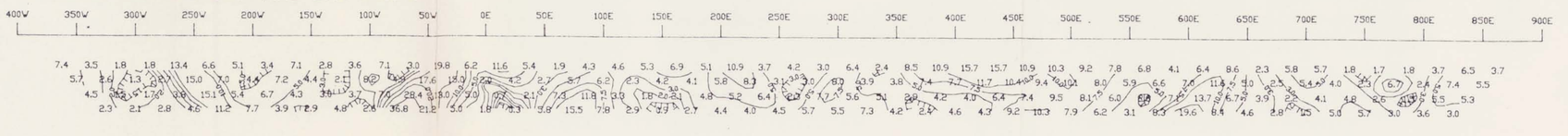


LINE 400N

CHARGEABILITY (Mt msec)



APPARENT RESISTIVITY (Rho Ohm-m*10^2)

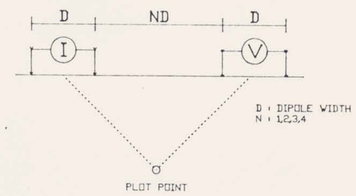


CONTOUR INTERVALS

CHARGEABILITY: 4 msec

APPARENT RESISTIVITY: LOGARITHMIC CONTOURS
(0.2, 0.3, 0.5, 0.75, 1, 1.5, 2, 3, 5, 7.5, 10, ...
Ohm-m * 10^2)

DIPOLE - DIPOLE ARRAY



DEFINITE ANOMALY: ———

PROBABLE ANOMALY: - - - - - - - -

POSSIBLE ANOMALY: ••••••••••••••••

GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,727

SCALE 1:2500

50 0 50 100 150

METERS

TO ACCOMPANY REPORT BY:
G.H. GIROUX, P.ENG.

LIZ B - JOHN PROJECT

FOR: LEGION RESOURCES LTD.

BY: SHANGRI-LA MINERALS LIMITED

PLOTTED BY: RPM MAPPING
AND COMPUTER SERVICES LTD.

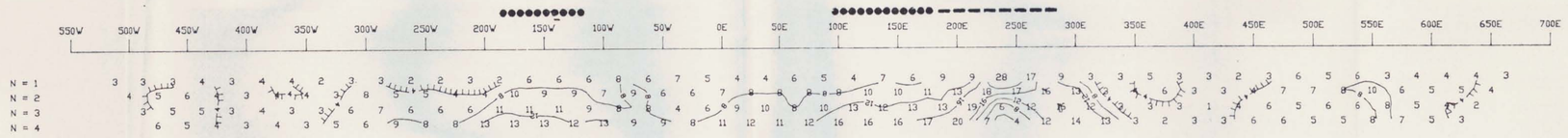
INDUCED POLARIZATION SURVEY
DIPOLE - DIPOLE ARRAY
DIPOLE WIDTH: 25m
LINES 2000N TO 400N

NELSON M.D., B.C.

N.T.S.: 82F / 02E	DATE: NOVEMBER 1988
PLOTTED BY R.P.M.	FIGURE NO. 1a

LINE 00N

CHARGEABILITY (Mt msec)



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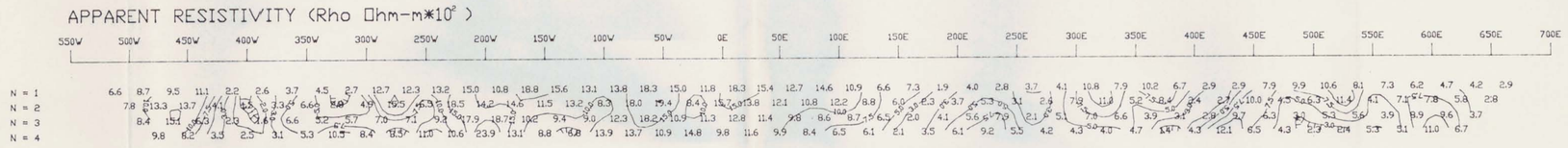
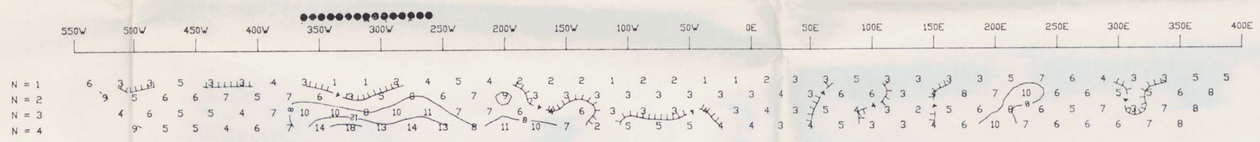
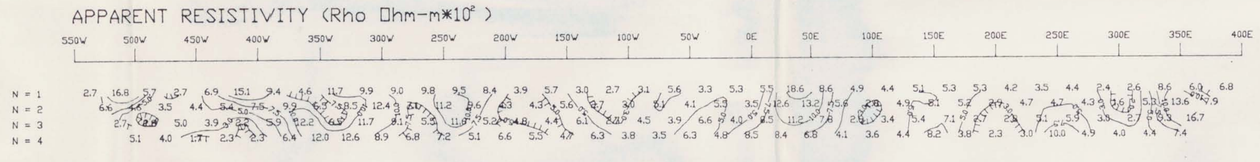


LINE 400S

CHARGEABILITY (Mt msec)

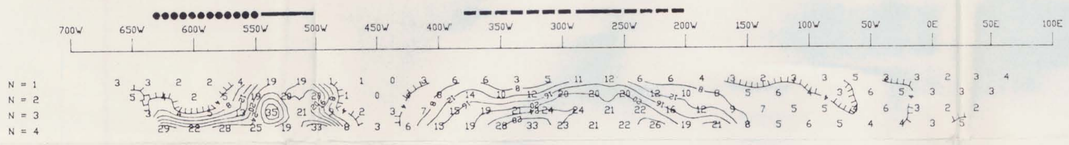


APPARENT RESISTIVITY (Rho Ohm-m*10^2)

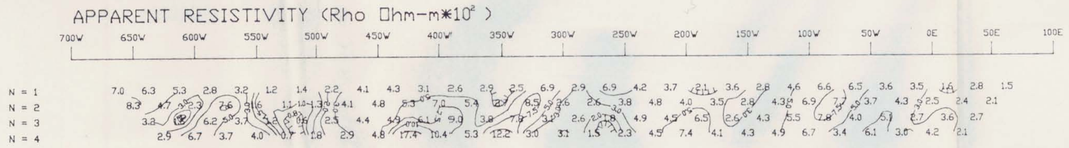


LINE 800S

CHARGEABILITY (Mt msec)

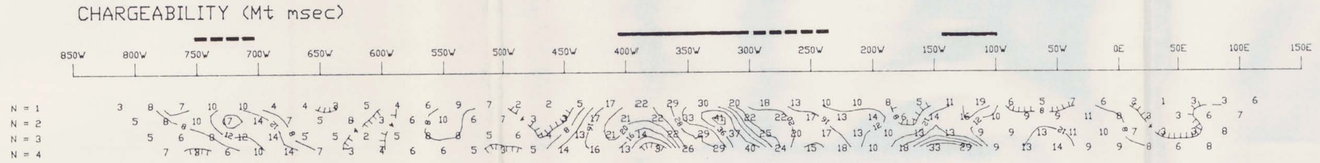


APPARENT RESISTIVITY (Rho Ohm-m*10^2)

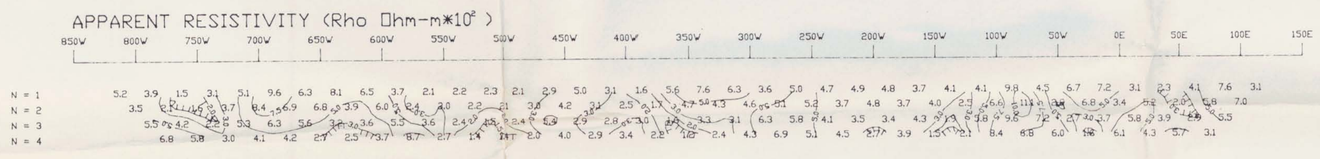


LINE 1200S

CHARGEABILITY (Mt msec)



APPARENT RESISTIVITY (Rho Ohm-m*10^2)



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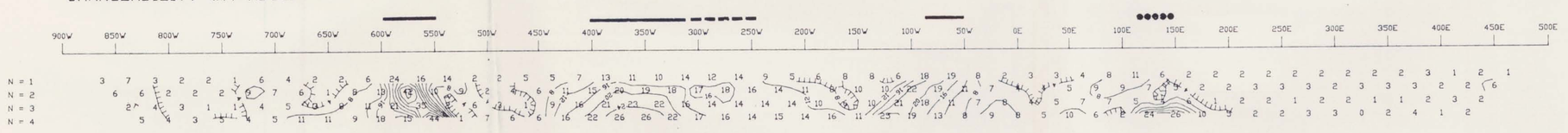
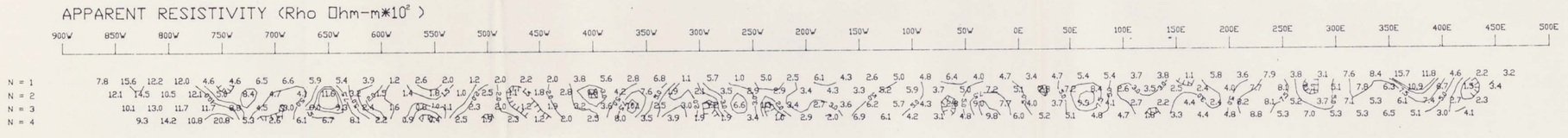
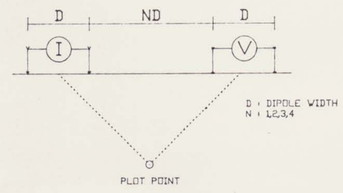


APPARENT RESISTIVITY (Rho Ohm-m*10^2)



DIPOLE - DIPOLE ARRAY



CONTOUR INTERVALS

CHARGEABILITY: 4 msec

APPARENT RESISTIVITY: LOGARITHMIC CONTOURS
(0.2, 0.3, 0.5, 0.75, 1, 1.5, 2, 3, 5, 7.5, 10, ...
Ohm-m * 10^2)

DEFINITE ANOMALY: ———

PROBABLE ANOMALY: - - - - - -

POSSIBLE ANOMALY: •••••••••••••••

GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,727

SCALE 1:2500

50 0 50 100 150

METERS

TO ACCOMPANY REPORT BY:
G.H. GIROUX, P.ENG.

LIZ B - JOHN PROJECT

FOR: LEGION RESOURCES LTD.

BY: SHANGRI-LA MINERALS LIMITED

PLOTTED BY: RPM MAPPING
AND COMPUTER SERVICES LTD.

INDUCED POLARIZATION SURVEY
DIPOLE - DIPOLE ARRAY
DIPOLE WIDTH: 25m
LINES 00N TO 1400S

NELSON M.D., B.C.

N.T.S.: 82F / 02E	DATE: NOVEMBER 1988
PLOTTED BY R.P.M.	FIGURE NO. 1b

DEFINITE ANOMALY: ———————

PROBABLE ANOMALY: - - - - - - - - - - - - - - - -

POSSIBLE ANOMALY: .....

SCALE 1:5000

100 0 100 200 300

METERS

TO ACCOMPANY REPORT BY:
G.H. GIROUX, P.ENG.

LIZ B - JOHN PROJECT

FOR: LEGION RESOURCES LTD.

BY: SHANGRI-LA MINERALS LIMITED

PLOTTED BY: RPM MAPPING
AND COMPUTER SERVICES LTD.

INDUCED POLARIZATION SURVEY
DIPOLE - DIPOLE ARRAY
DIPOLE WIDTH: 25m
COMPILATION MAP

NELSON M.D., B.C.

N.T.S.: 82F / 02E	DATE: NOVEMBER 1988
PLOTTED BY R.P.M.	FIGURE NO. 2

LEGION RESOURCES LTD.

CRESTON PROJECT — PROJECT # 88HT1

COMPOSITE MAP

SCALE 1:5,000

0 50 100 200 300 400 500m

MONTGOMERY CONSULTANTS LTD.

N.T.S. 82 F / 2	SCALE:	FIGURE 14
DATE JAN. 15, 1989	DRAWN G.H.G.	

To Accompany Report By G.H. Giroux, P.Eng.

JAN 1 51989

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — G. H. GIROUX

DRYWASH CREEK

WILDS CREEK

BL

Zone 5

Zone 4

Zone 1

Zone 2

Zone 3

L.20N.

L.18N.

L.16N.

L.14N.

L.12N.

L.10N.

L.8N.

L.4N.

L.0

L.4S.

L.8S.

L.10S.

L.12S.

L.14S.

JEEP TRAIL

5000

4300

3500

3000

BID (12 units)

TAG (12 units)

JOHN 2 (8 units)

REX (4 units)

L.C.P

L.C.P

L.C.P

LIZ 1-4

LIZ B#2

LIZ B#1

S-1 S-2 S-3 S-4 S-5 S-6

A-1 A-2 A-3 A-4 A-5 A-7

LEGEND

- Zinc anomalies
- Lead anomalies
- I.P. anomalies — Zone 1 to 5
- Diamond drill holes

LEGION RESOURCES LTD.

CRESTON PROJECT — PROJECT # 88HT1

GEOLOGY MAP

SCALE 1:5,000

0 50 100 200 300 400 500m

MONTGOMERY CONSULTANTS LTD.

N.T.S. 82 F / 2	SCALE:	FIGURE 4
DATE: JAN. 15, 1989	DRAWN: M.W.	

To Accompany Report By G.H. Giroux, P.Eng.

JAN 1 5 1989

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — G.H. GIROUX

18,727

GEOLOGICAL BRANCH ASSESSMENT REPORT

DRYWASH CREEK

WILDS CREEK

BID (12 units)

TAG (12 units)

JOHN 2 (8 units)

REX (4 units)

LIZ 1-4

L.C.P.

JEEP TRAIL

L.20N.
L.18N.
L.16N.
L.14N.
L.12N.
L.10N.
L.8N.
L.4N.
L.0
L.4S.
L.8S.
L.10S.
L.12S.
L.14S.

4300
3500
3000
2500

LEGEND

1 — Varicoloured dolomitic limestone, ranges in colour from rusty brown orange to medium grey. Silicified in some instances; minor mica; sugary texture. This unit hosts the mineralized unit.

2 — Massive quartzite, recrystallized, very resistant unit forming ridges colour ranges from buff to a pinkish hue; can be micaceous in some areas showing a fissel nature; sometimes interbedded with shale.

3 — Fissel shale, ranges in colour from grey green to dark black, weathers rusty red to brown, highly cleaved. Cleavage planes paralell to bedding. Shale has varying amount of mica and may be silicified locally.

4 — Phyllite; grey green in colour, highly fissel with a shistose texture. A very high quartz and mica content.

5 — Granodiorite composed mostly of quartz and plagioclase with large phenocrysts of K-feldspar. This intrusive is very similar to the Nelson Batholith.

6 — Diabase Dyke with finelly disseminated pyrite.

7 — Quartz porphyry dyke - locally found and is composed mostly of quartz and Feldspar.

Inferred geologic contact.

Road or skid trail.

Outline of outcrop boundaries.

Rubbly Outcrop.

Strike and dip of bedding.

Trench location.

Adit.

Shaft.

Cut lines.

? Area of uncertainty.

Lithogeochemical sample sites.

Geology by Mitch Wasel
October & November 1988.

Sample Number	AG G/TONNE	AG OZ/TON	CU %	PB %	AU G/TONNE	AU OZ/TON	ZN %	Description
111 51	2.1	0.06	.008	.02	.01	0.001	.02	Dolomitized grey green limestone with Trace PbS & Py
111 52	74.3	2.17	.374	.01	.04	0.001	.07	Silicified Dolomite with tetrahedrite, chpy, cu carb. & py
111 53	231.0	6.74	.024	6.24	.07	0.002	4.90	Banded limy unit with diss. sphalerite, galena & py
111 54	9.8	0.29	.008	.20	.01	0.001	.52	Massive limestone unit with diss. py Possible hanging wall of 11153
111 55	2.1	0.06	.008	.02	.01	0.001	.05	Limy unit highly oxridized slightly silicified with diss. py
111 56	2.0	0.06	.008	.01	.01	0.001	.02	Banded silicified limy unit with abundant diss. py sample across 30 cm.
111 57	24.3	0.71	.119	.21	.03	0.001	.03	Silicified dolomitic limestone with tetrahedrite, galena & chalcopyrite Sample across 7 cm.
111 58	45.9	1.34	.170	.30	.09	0.003	.04	Extremely silicified Dolomitic limestone with abundant qtz. stringers, tetrahedrite galena, & cu carb. Sample across 6 cm.
111 59	4.2	0.12	.012	.01	.05	0.001	.02	Silicified Dolomitic limestone with traces pyrite and minor Cu staining
111 60	109.6	3.20	2.000	.02	.42	0.012	.16	25 cm. oxidized vein with Cu staining, chalcopyrite and tetrahedrite
111 61	4.2	0.12	.026	.01	.01	0.001	.01	Silicified dolomite next to vein sample 11160. No visible sulphides.
111 62	8.3	0.24	.010	.20	.01	0.001	.03	Silicified Dolomitic limestone with minor diss. fine grained galena.
111 63	6.2	0.18	.006	.10	.02	0.001	1.10	Silicified Dolomitic limestone with minor diss. fine grained galena.
111 64	9.7	0.28	.006	.51	.01	0.001	.53	Silicified Dolomitic limestone with minor diss. fine grained galena.
111 65	4.3	0.13	.006	.19	.01	0.001	1.31	Silicified Dolomitic limestone with minor diss. fine grained galena.
111 66	1.9	0.06	.006	.01	.01	0.001	.02	Porous rusty orange limestone with qtz. stringers. No visible sulphides.
111 67	1.8	0.05	.008	.01	.04	0.001	.05	Dolomitic limestone, buff color with minor sphalerite ? and py
111 68	1.1	0.03	.006	.01	.02	0.001	.02	Silicified dolomitic limestone with qtz. stringers and finally diss. py.
111 69	2.0	0.06	.004	.02	.01	0.001	.04	Yellow buff dolomitic limestone with qtz. stringers & minor sulphides (py)
111 70	2.4	0.07	.004	.01	.01	0.001	.02	Dolomitic limestone with qtz stringers. No visible sulphides.
111 71	182.0	5.31	.620	1.62	.02	0.001	.07	Quartz vein in dolomitic limestone with Cu staining and tetrahedrite. Sample across 3 cm.
111 72	3.9	0.11	.010	.02	.02	0.001	.02	Dolomitic limestone with minor qtz. stringers and diss. py. (< 3 %)
111 73	3.7	0.11	.008	.01	.01	0.001	.02	Banded limestone very similar to Main zone. No visible sulphides.
111 74	4.8	0.14	.008	.01	.02	0.001	.02	Dolomitic limestone with minor qtz. stringe.s, trace of py and finally diss. galena ?
111 75	2.0	0.06	.016	.01	.01	0.001	.01	Fine grained banded diabase dyke with pyrite along foliation. Dyke is 16 cm. wide.
111 76	4.1	0.12	.050	.01	.01	0.001	.02	Banded brecciated carbonate located next to dyke with fine grained diss. py
111 77	3.6	0.11	.008	.01	.02	0.001	.09	Silicified fine grained dolomite, banded appearance, Py diss. in stringers. Width of zone about 3 metres.

14100 14000 13900 13800 13700 13600 13500 13400 13300 13200 13100 13000 12900 12800 12700 12600 12500 12400 12300 12200 12100 12000 11900 11800 11700 11600 11500 11400 11300 11200 11100 11000 10900 10800 10700 10600 10500 10400 10300 10200

13300 13200 13100 13000 12900 12800 12700 12600 12500 12400 12300 12200 12100 12000 11900 11800 11700 11600 11500 11400 11300 11200 11100 11000 10900 10800 10700

N

+ - 1988 SAMPLE LOCATIONS

o - 1985 SAMPLE LOCATIONS

△ - 1978 SAMPLE LOCATIONS

600/450 CONTOUR INTERVAL

To Accompany Report By
G.H. Giroux, P.Eng.

JAN 1 5 1989

FIGURE 11

LEGION RESOURCES LTD.

CRESTON PROJECT # 88HT1

ZINC GEOCHEMISTRY (PPM)

0 100 200 M.

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14100 14000 13900 13800 13700 13600 13500 13400 13300 13200 13100 13000 12900 12800 12700 12600 12500 12400 12300 12200 12100 12000 11900 11800 11700 11600 11500 11400 11300 11200 11100 11000 10900 10800 10700 10600 10500 10400 10300 10200

13300 13200 13100 13000 12900 12800 12700 12600 12500 12400 12300 12200 12100 12000 11900 11800 11700 11600 11500 11400 11300 11200 11100 11000 10900 10800 10700

N

+ - 1988 SOIL LOCATIONS

o - 1985 SAMPLE LOCATIONS

△ - 1978 SAMPLE LOCATIONS

1.7 / 1.1 CONTOUR INTERVAL

To Accompany Report By
G.H. Giroux, P.Eng.
JAN 15 1989

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
G. H. GIROUX

FIGURE 1.3

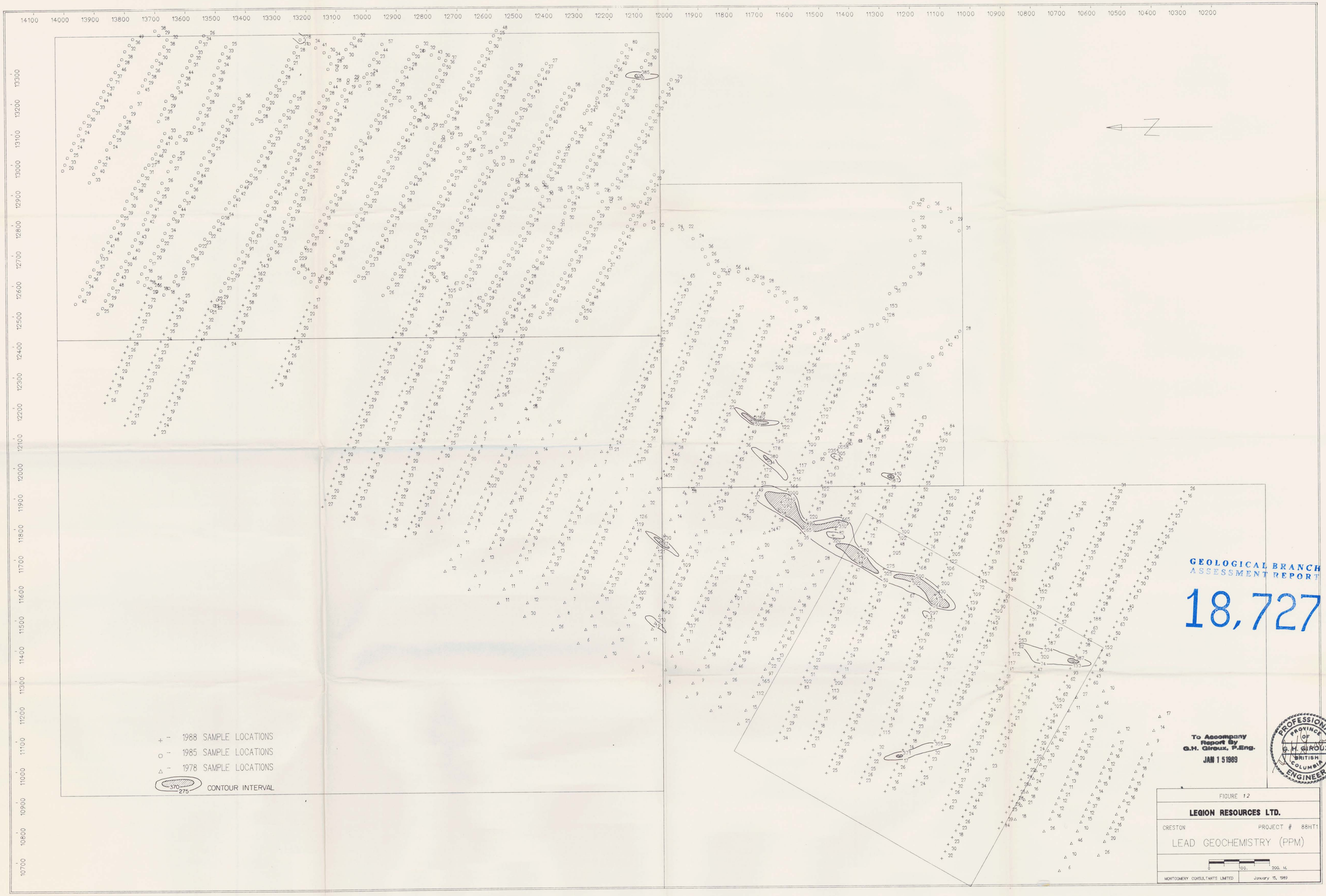
LEGION RESOURCES LTD.

CRESTON PROJECT # 88HT1

SILVER GEOCHEMISTRY (PPM)

0 100. 200. M.

MONTGOMERY CONSULTANTS LIMITED | January 15, 1989



GEOLOGICAL BRANCH
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18,727