

LOG NO: 0208 RD.
 ACTION:
 FILE NO:

MineQuest Report #210
 Ref. No. RM5204

GEOLOGY, GEOPHYSICS, AND GEOCHEMISTRY

of the

CREIGHTON CREEK, BONNEAU CLAIMS

June to December, 1988

Vernon Mining Division

N.T.S. 82L/2

UTM 5560000N
 378000 E

Latitude 50° 12' N
 Longitude 118° 45' W

by

R.S. Wasylyshyn, P. Geol.

of

MineQuest Exploration Associates Ltd.
 for QPX Minerals Inc.

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GEOLOGICAL BRANCH
 ASSOCIATION REPORT

FILED

<u>Claim Name</u>	<u>Record Number</u>
Bonne I	2308
Bonne II	2309
Bonneau I	1349
Bonneau II	1350
Echo I	1334
Echo II	1335
Echo III	1351
Echo IV	1352
Hump III	1355
Hump V	1357

January 1989

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1.0

INTRODUCTION

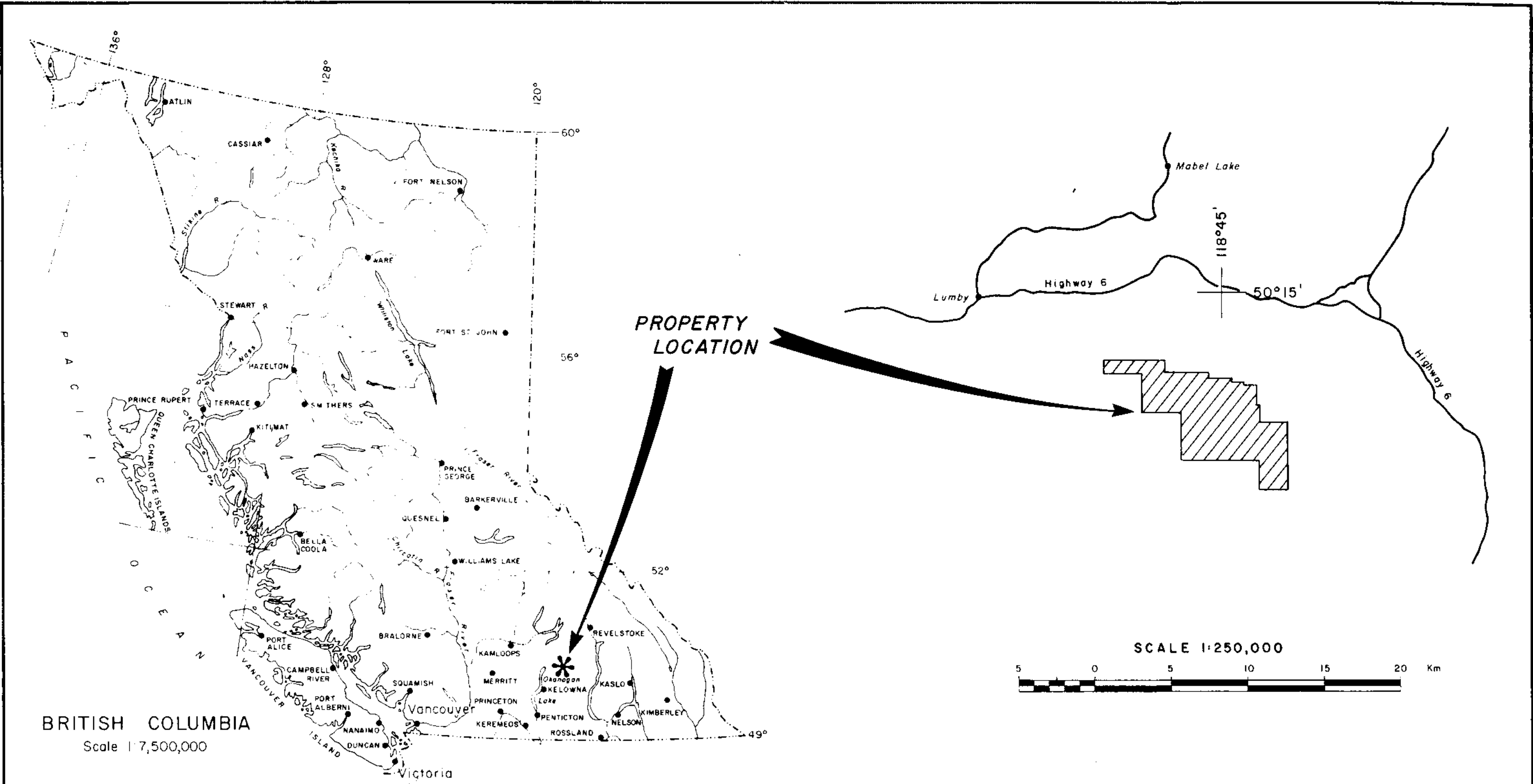
Presented herein are the results of work completed during the 1988 field season on the Creighton Creek, Bonneau Claims near Lumby, B.C. The claims were staked on the basis of anomalous amounts of gold and arsenic in heavy mineral samples taken from stream sediments. Work in 1983, 1984 and 1987 identified areas of geochemically anomalous gold in soil and silt samples, and located zones of altered and silicified outcrop. Work during 1988, which led to the discovery of a zone of silicified and pyritic outcrop consisted of geological mapping, prospecting, and geophysics.

1.1 Location, Access and Terrain

The Creighton Creek, Bonneau Claims lie in the Okanagan Highland in south central British Columbia, 40 km east-southeast of Vernon. (Figure 1).

Access to the property is by Creighton Valley Road which leaves Highway 6 one kilometre east of Lumby, and by cat road up Bonneau Creek (Figure 2).

Topography is generally rolling with steep banks into the Creighton Valley. Relief is 800 m with the highest elevations at 1800 m. Vegetation consists of fir and pine forests with moderate under-growth. The southern end of the claim block is flat and swampy.



BRITISH COLUMBIA
Scale 1:7,500,000



QPX MINERALS INC.			
CREIGHTON CREEK BONNEAU CLAIMS			
LOCATION MAP			
PLAN NO. 1432	DRAWN C.D.	DATE JAN. '89	FIGURE 1
Revised _____		N.T.S. 82L/2	
MINEQUEST EXPLORATION ASSOCIATES LTD.			

1.2 Property Definition and History

The Creighton Creek claims were staked on the basis of gold associated with anomalous quantities of arsenic in heavy mineral concentrates.

An initial silt sampling and prospecting program in the early part of the 1983 field season defined targets on the Echo and Hump claims. As a follow-up, grid soil sampling was conducted late in 1983. This work is covered in Assessment Reports 11718 and 11814 by Ridley (1983, 1984).

In 1984, follow-up rock and soil sampling on the Echo and Hump grids failed to produce any values of interest. Two contour soil lines around the Creighton Creek drainage area located several single station gold anomalies close to the creek. The entire claim block was mapped at a scale of 1:10,000 which resulted in the first understanding of the Tertiary stratigraphy. In conjunction with detailed silt sampling, geological mapping directed future work toward the base of a coarse clastic unit underlying the Plateau Lava. Assessment Report 13360 by Gourlay and Hadley (1985) describes this work in detail.

A program of geological mapping, prospecting and soil, bank, rock and silt sampling, was conducted in 1987. None of these techniques, however, succeeded in locating the source for the anomalous heavy mineral samples. Reports by Gosse (1987) and Lee and Gosse (1988) describe this work in detail.

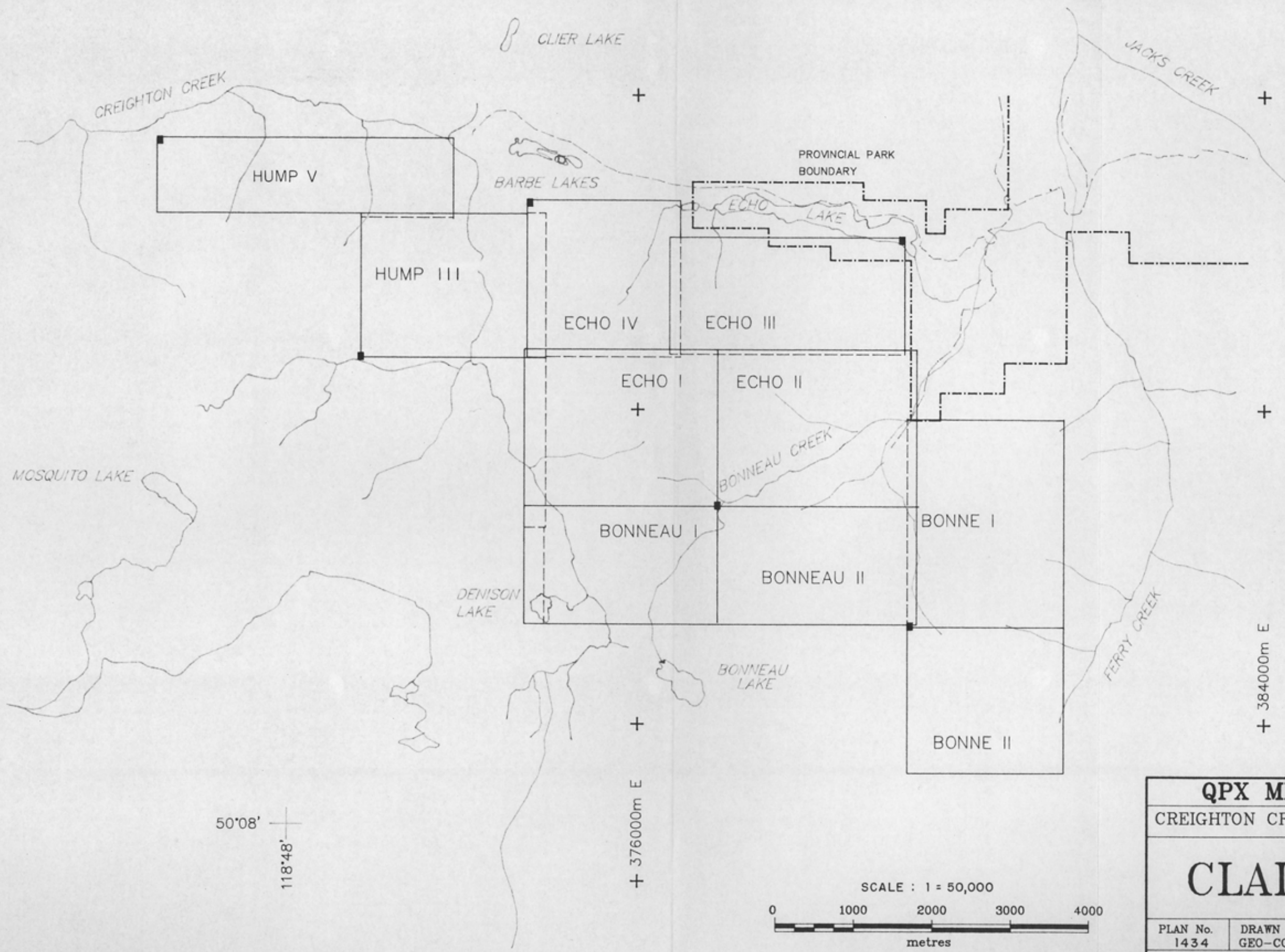
No metal occurrences have been reported on the Creighton Creek claims but the western portion was explored and drilled for uranium in 1977-78 by E and B Explorations Limited. (Assessment Reports 6595, 6596, 7075, 7178). The Chaput Mine located 18 km northwest of the claims, produced 40,000 tons of ore containing lead, zinc, gold, silver and copper from quartz veins in Cache Creek Group metasediments (MinFile 82LSE 006). A few gold, silver and lead properties were reported near Harris Creek to the west and Monashee Creek to the east of the Creighton Creek claims (MinFile 82LSE 003, 82LSE 025, 82LSE 034, 82LSE 035). Mineralization was associated with quartz veining in all occurrences reported. Placer gold was found in Harris Creek and Cherry Creek (Assessment Report 7178, MinFile 82LSE 013).

1.3 Claim Status

The Creighton Creek Bonneau Claims consist of ten mineral claims held by QPX Minerals Inc. (see Figure 3) as listed below:

Table 1 - Claim Status

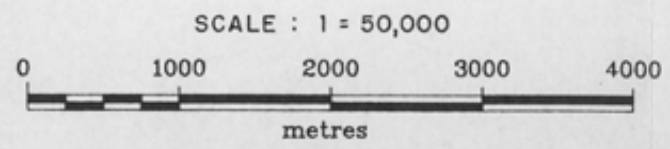
<u>Claim Name</u>	<u>Record Number</u>	<u>No. of Units</u>	<u>Record Date</u>	<u>Expiry Date (before submission of this Report)</u>
Bonne I	2308	20	17 Jul 1987	17 Jul 1991
Bonne II	2309	16	17 Jul 1987	17 Jul 1991
Bonneau I	1349	15	21 Dec 1982	21 Dec 1991
Bonneau II	1350	15	21 Dec 1982	21 Dec 1991
Echo I	1334	20	15 Nov 1982	15 Nov 1991
Echo II	1335	20	15 Nov 1982	15 Nov 1991
Echo III	1351	18	21 Dec 1982	21 Dec 1991
Echo IV	1352	16	21 Dec 1982	21 Dec 1991
Hump III	1355	20	21 Dec 1982	21 Dec 1991
Hump V	1357	16	21 Dec 1982	21 Dec 1991



50°08' +
118°48' +

+ 376000m E

+ 384000m E



QPX MINERALS INC.			
CREIGHTON CREEK BONNEAU CLAIMS			
CLAIM MAP			
PLAN No. 1434	DRAWN BY: GEO-COMP	DATE Jan '89	FIGURE 3
Originator: R.S.W.		N.T.S. 82L/2	
MINEQUEST EXPLORATION ASSOCIATES LTD.			

1.4 1988 Exploration Program

The work conducted during 1988 was aimed at locating the source of strongly anomalous amounts of gold found in heavy mineral samples. Follow-up silt sampling in 1987 located anomalous silts in several of the Bonneau tributaries. The relative strength of the anomalies indicated the potential for finding economic mineralization was very high.

1.41 Grid Establishment

A 620 m baseline and 12.9 km of cross and tie lines were established within Bonneau Creek area. The baseline azimuth is 090° with cross-lines at 180°. Lines were established every 50 m with station intervals every 20 m. The entire grid was slope corrected for topography.

1.42 Geological Mapping

In 1988, the Bonneau Creek area was regionally mapped at a scale of 1:5,000 (Figure 4), and in detail at scale 1:1,000 (Figure 5). As well, a trench immediately uphill of the Cougar showing (section 3.0) was mapped in detail at a scale of 1:500 (Figure 6). The Echo III Grid, south of Echo Lake, was geologically mapped at a scale of 1:2,500 (Figure 7). A geochemical compilation of the Echo III grid (Figure 8) also at a scale of 1:2,500 is included.

1.43 Geophysics

A total of 13.5 line kilometres of VLF-EM and magnetometry were completed by Delta Geoscience Ltd., using a Scintrex Integrated Geophysical System and a Scintrex MP-3 Base Station Magnetometer. Seattle, Washington was employed as a transmitting station for the VLF-EM survey. Readings were collected at 25 metre intervals along grid lines spaced 50 metres apart for both the VLF-EM and magnetometry surveys. On-board computer programs calculated diurnal variation and provided corrected data for the total magnetic field and the Fraser Filter values for the VLF-EM survey.

A total of 8.3 line kilometres of Induced Polarization survey were completed by Delta Geoscience Ltd. and Lloyd Geophysics Limited.

1.44 Geochemistry

A total of 185 rock grab and channel samples were collected and analyzed for Au and either a 5 element or a 30 element ICP suite. 18 soil samples were also collected and analyzed for Au and a 5 element ICP suite. All soil samples were collected from the B horizon. Each sample was placed in a kraft paper sample bag marked with the line and station number. Samples were collected at five metre intervals from two contour lines approximately 650 metres upstream from the influence of F Creek and Bonneau Creek.

1.45 Personnel

The grid establishment, soil sampling and trenching were conducted by G. Vernon, S. Dribnenki, P. Haering, C. Monroe, S. Handley, P. Lloyd, C. Woolverton, S. MacDougall, and T. Starbuck. The geological mapping was carried out by R.J. Weick. The project was under the supervision of R.V. Longe and R.S. Wasylyshyn.

2.0

GEOLOGY2.1 Regional Geology

The Creighton Creek claims are underlain by basement rocks of the Archean-aged Monashee Metamorphic Complex. These basement rocks are overlain by Permian Cache Creek Group sediments and volcanic rocks, and the whole assemblage has been intruded by the Jurassic-Cretaceous Coast Intrusions. The Tertiary Kamloops Group sediments and volcanic rocks lie unconformably on all of the older rocks in the Bonneau area. Associated with the Tertiary volcanic events are a number of feldspar porphyry dikes and mafic dikes.

2.2 Property Geology

The Creighton Creek claims were geologically mapped at a scale of 1:10,000 by Gourlay and Hadley (1984) and updated by Gosse (1987). Work completed during 1988 further refined the geology of the Bonneau Creek area.

The northern portion of the Bonneau Basin is underlain by a sequence of rocks that fall within the Monashee Group of the Shuswap Terrane. Quartz-feldspar-biotite gneiss forms the bulk of the Monashee Group with lesser amounts of phyllitic slate and hornblende mica schist. Minor garnet-rich rock was also mapped. The lithologies seen in the Monashee Group in the Bonneau area are consistent with the descriptions in Jones (1959) who suggests the Monashee is a strongly metamorphosed package of sedimentary rocks. Structural and stratigraphic trends in the Monashee Group are north-west south-east.

Permian rocks of the Cache Creek Group unconformably overly the Monashee Group. Exposures of the Cache Creek are abundant in the central Bonneau Basin and two dominant lithologies are present. The first is a black graphitic calcareous argillite and the other a green calcareous intermediate volcanic rock.

The argillites of the Cache Creek Group which are black, graphitic, calcareous, and cut by numerous carbonate stringers, are blocky, well fractured, often iron stained, and weakly pyritic. Minor interbeds of competent massive dolomitic limestone were noted within the argillites. Structural and stratigraphic attitudes indicate that the argillites strike north-east with a near-vertical dip. This structural data is supported by data from the IP survey.

The argillites are in conformable contact with a green massive, often lapilli-rich calcareous andesite or intermediate tuff. The tuffs are well exposed on the grid but their geophysical signature is very weak. Fracturing or jointing within the tuffs is chaotic and little structural or stratigraphic information is available. The tuffs are host to a visually impressive zone of quartz-sericite-pyrite alteration known as the Cougar showing, fully described in Section 3.0.

Unconformably overlying all of the older rocks in the Bonneau Basin is a package of flat-lying Tertiary volcanic and sedimentary rocks. The Tertiary is represented by two dominant lithologies, the first a conglomerate or lahar and the other a plateau basalt.

The base of the Tertiary is made up of an unusual conglomeratic unit which is probably a lahar or debris flow. The unit is buff brown, clay-rich, with mainly pebble-sized clasts of basalt or silt. The unit which is porous and contains minor glassy shards of quartz or other silicate minerals is so widely dispersed that an alluvial source does not seem likely. The thickness of this unit has not been measured but cliff exposures several tens of metres high have been noted. Overlying the conglomerate is a Miocene plateau basalt which forms a flat-lying cap to many of the hills in the Okanagan area.

3.0

MINERALIZATION

The majority of sulfide mineralization and alteration found within the Bonneau Basin is restricted to Cache Creek rocks. Within these rocks, two different styles of mineralization are seen. The first style, seen at the Cougar zone (Figure 6), consists of a quartz-sericite-pyrite alteration of the intermediate volcanics. These pale green, silicified rocks commonly host 1-2% disseminated or stringer pyrite and are found in discontinuous outcrop over a distance of 75 metres. Geological mapping and interpretation of the IP survey indicates that the Cougar showing is related to a north-south oriented fault which forms the gully for Bonneau creek. Numerous grab and channel samples were taken from the Cougar showing, but none returned anomalous gold values.

Quartz-carbonate veins hosted by the intermediate volcanics and by the argillites represents the other style of mineralization found in the Bonneau area. The veins range in width from narrow stringers centimetres wide to veins 0.5 m wide. Mostly they are found as float in the creek beds, however, some are found in outcrop. Often they are pyritic and one was found to host chalcopryrite. Samples taken from these veins were not anomalous in gold.

No mineralization was found in the Tertiary rocks. Minor disseminated pyrite and pyrrhotite is found within the Shuswap Metamorphic Complex.

4.0

RESULTS4.1 Geochemical Results

The locations of the samples taken during 1988 are plotted on Figures 4-7. Analytical results can be found in Appendix I.

A total of 61 rock grab samples were taken within the Bonneau drainage basin. The highest value from these samples was 95 ppb Au.

Several outcrops within the Cougar zone were hand trenched and channel sampled (see Figure 5). Thirty-one samples were taken from the trenches. The highest gold value within these samples was 11 ppb.

An access road was put in uphill of the Cougar zone and exposed several large outcrops (Figure 6). Thirty-one chip samples were taken from these outcrops (E67082-E67112). The highest gold assay returned a value of 33 ppb.

A prospecting program was carried out to investigate the soil geochemical anomalies on the Echo III grid (see Figure 8). During this program, 62 rock grab samples were taken (EBB8801-EBB8862). Only one sample returned anomalous in gold with a value of 5,960 ppb. This sample was taken from an angular, football-sized piece of quartz float. Follow-up prospecting in the vicinity failed to locate the source of the quartz.

A small soil sample grid was established over an occurrence of quartz-carbonate veins on "F" Creek and 18 soil samples were taken from contour soil lines CL4 and CL5. One sample CL4 0+40N returned with a significant gold value of 43 ppb Au. Further prospecting failed to locate a source for the anomaly.

4.2 Geophysical Results

The various geophysical surveys conducted on the Bonneau grid were contracted out to two different firms. As well, a small amount of VLF and magnetometry was completed by MineQuest personnel. Delta Geoscience of Tsawwassen completed most of the VLF and magnetometry as well as some of the IP. The remainder of the IP was carried out by Lloyd Geophysics of Vancouver.

The IP results are very useful as a mapping tool. The chargeability response over the argillites is very strong and stands out well on the chargeability plan map (see Figure 9). The north-west corner of the grid is underlain by these north-east trending rocks. This response, however, does not cross Bonneau Creek suggesting the argillites are faulted off. The intermediate volcanic rocks have a very low chargeability signature and thus stand out well on the resistivity plan map (see Figure 10).

Only one unexplainable chargeability anomaly exists on the grid. The anomaly trends north-east and is located on the southern ends of lines L50 + 75E and L51 + 25E. The anomaly is of moderate strength and may be due to a faulted block of argillites. However, the anomaly has a response lower than that of the argillites and may be due to the presence of a sulfide body. The shape of the anomaly on the pseudo-section (see Figure 23, following page) is that of the classic "pant-leg" anomaly.

The magnetic survey did not define any anomalies attributable to possible economic mineralization, however, the survey did reveal the presence of a very strong magnetic high on the north-east corner of the grid. Ground follow-up located an abundance of float of dioritic intrusive rocks in the area. The contact between the intrusive and the calcareous intermediate volcanic rocks may be of some significance. The magnetic survey was completed using a Scintrex IGS proton procession magnetometer.

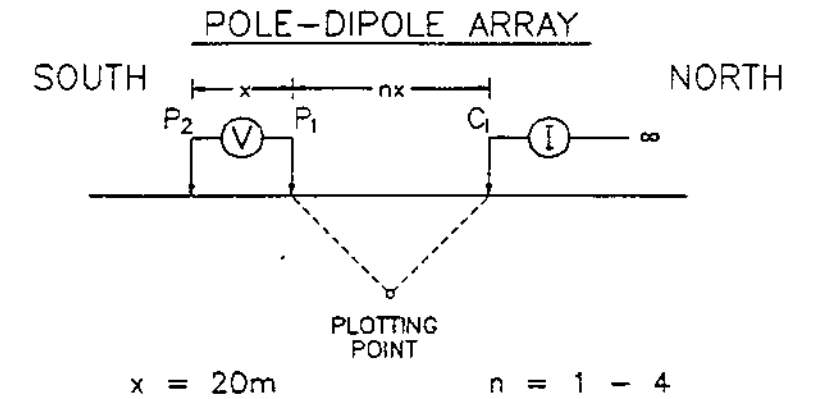
The VLF survey did not define any targets on the grid nor was it useful as a mapping tool. Figure 12 presents the Fraser filtered VLF data collected using the Seattle transmitter (24.8 khz). The survey was performed using a Geonics EM-16 VLF EM instrument.

QPX MINERALS INC.

BONNEAU CLAIMS

VERNON M.D. B.C.

LINE: L50+75E



SURFACE PROJECTION OF ANOMALOUS ZONES

- DEFINITE
- PROBABLE
- POSSIBLE
- AT DEPTH

SCALE 1 : 1000

CONTOUR INTERVALS
 APP.CHARGEABILITY : 2.5 (msec)
 APP.RESISTIVITY : 100 (ohm-m)
 DATE SURVEYED: August 23, 1988
 Tx: Huntec Mk2 Model 7500
 Rx: Huntec Mk4

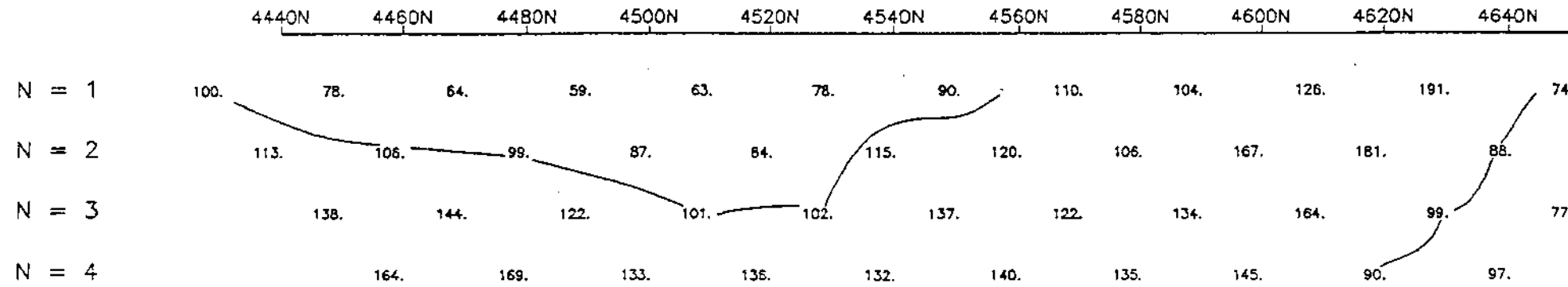
FIG 23

LLOYD GEOPHYSICS LIMITED

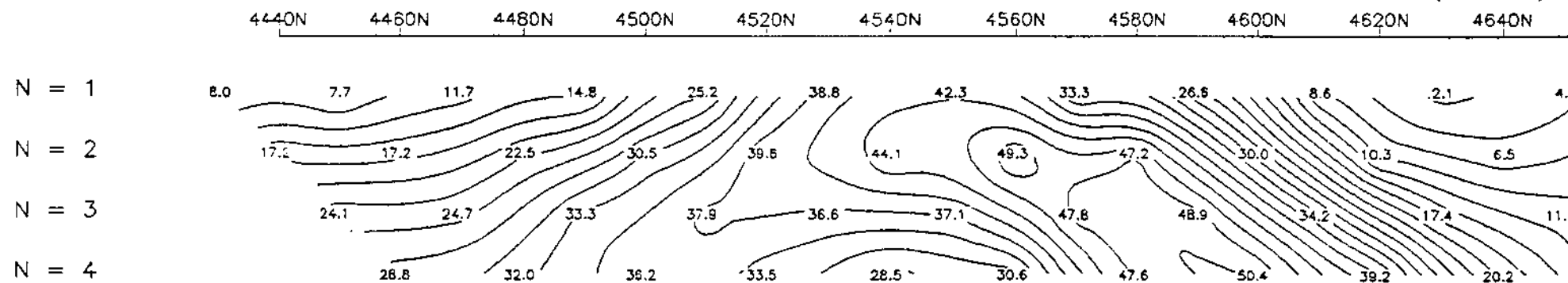
INDUCED POLARIZATION SURVEY

DRAWING NUMBER : 88278-5

RESISTIVITY (OHM-M)



CHARGEABILITY (MSEC)



5.0

DISCUSSION

A number of structural and geological features in the Bonneau area have been recognized and may be relevant to the economic potential of the area.

Of all the rocks in the Bonneau area, the Cache Creek Group appears to have the highest potential of hosting economic mineralization. The gneisses of the Shuswap may be of too high a metamorphic grade and the Tertiary only offers plateau basalts and a lahar/mudflow as possible hosts. The mudflow unit cannot be ruled out as a potential target, but to date, no mineralization associated with this unit has been found.

Lithologically, the Cache Creek rocks are very calcareous and thus offer two different possible models of mineralization. The first is a Carlin-type epithermal replacement model. The second model involves structurally controlled quartz-carbonate veins. To date, evidence exists to support only the latter style.

Faulting is common in the Bonneau area. The main structural trend appears to be north-south and thus cuts stratigraphy which trends north-east south-west. Movement on some of the faults is considerable as evidenced by the location of the Tertiary unconformity. At the headwaters of the Bonneau, the flat-lying unconformity is found at 4,500 feet elevation. Only 1.8 km to the north, the unconformity is again seen at 3,800 feet elevation. Faulting must account for at least 700 feet of movement.

The mineralization found to date is associated with a major structure which parallels Bonneau Creek (eg. Cougar zone).

Structurally controlled quartz-carbonate veins present the most likely targets within the Bonneau area.

The very strong geochemical anomalies reported in previous years in the Bonneau basin are randomly scattered and no obvious patterns have emerged. This style of secondary dispersion is consistent with the gold coming from the thick mantle of glacial overburden draped over the area or possibly from the extensive Tertiary lahar unit.

6.0

CONCLUSIONS

Prospecting, trenching, and geochemical sampling in the Bonneau area during 1988 failed to locate the source for anomalous gold values in the heavy mineral samples. Although sulfide mineralization was located, none proved to be auriferous.

All possible outcropping sources of the Bonneau Creek gold anomalies have been thoroughly tested. A number of potential sources still, however, remain to be drill-tested. Some of these targets are covered by a mantle of overburden and thus require drilling.

Targets considered to be worthy of drill-testing include the following:

- 1) down-dip on the fault structure which hosts the Cougar mineralization;
- 2) the anomalous chargeability high on L50+75E at 45+40N;
- 3) an intrusive contact between the diorite and the Cache Creek rocks in the north-east corner of the Bonneau grid;
- 4) the thick layer of glacial overburden.

7.0

RECOMMENDATIONS

Drilling will be required to further test any of the targets within the Bonneau area. Several targets could be tested with a reverse-circulation drilling program.

A 1,000 foot (300 m) drill program is recommended to test the following four targets:

- 1) beneath the Cougar zone;
- 2) IP chargeability anomaly on L50+75E;
- 3) borders of the magnetic high in the NE corner of the Bonneau grid;
- 4) overburden testing.

If any of the above targets are found to be auriferous, further follow-up may be warranted. At the very least, the cause of anomalous heavy mineral samples will be explained. If the tills are found to contain anomalous amounts of gold, the property should be abandoned. Attempting to locate a source for gold in transported tills would be both resource and time consuming.

A provisional budget of \$26,917 (1989 dollars) to cover a modest percussion drill program is recommended.

Proposed Budget (1989 dollars)

1,000 feet reverse circulation drilling 1,000 x \$11/foot	\$ 11,000
Labour Geologist 6 days x \$235/day	1,410
Labour Assistant 6 days x \$160/day	960
Truck 6 days x \$100/day	600
Accommodation & Board 12 man/days x \$100	1,200
Analytical 100 samples x \$ 20/sample	2,000
Cat 30 hours x \$ 60/hour	1,800
Miscellaneous (shipping, telephone, gasoline, etc.)	500
Supervision	2,000
Report Writing	3,000
	<hr/>
	\$ 24,470
Contingency @ 10%	2,447
	<hr/>
TOTAL	<u><u>\$ 26,917</u></u>

8.0

REFERENCES

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- RIDLEY, S.L., 1984, Creighton Creek Claims, Geochemistry and Prospecting, Vernon Mining Division, MineQuest Exploration Associates Ltd., MineQuest Report #38 (submitted for Assessment).
- RIDLEY, S.L., 1984, Creighton Creek Claims, Soil Grid Geochemistry, Vernon Mining Division, MineQuest Exploration Associates Ltd., MineQuest Report #48 (submitted for Assessment).

APPENDIX I

Analytical Methods

ANALYTICAL METHODS

Rock and soil samples were submitted to Acme Analytical Laboratories in Vancouver, B.C. The rocks were crushed to 80% less than 10 mesh. A representative split of approximately 250 grams was obtained by passing the sample through a Jones Riffle splitter. The entire 250 gram split was reduced to -100 mesh. The samples were analyzed for Au by Atomic Absorption Spectrometry (AAS) after digestion with Aqua Regia and extraction by Methyl Iso-Butyl Ketone (MIBK). They were also analyzed for either a 5 or 30 element suite by Inductively Coupled Plasma Spectrometry (ICP) after digestion with Aqua Regia.

Soil samples were also sent to Acme Analytical Laboratories where they were oven dried and screened to -80 mesh. A 10 gram subsample of the -80 mesh material was digested with a hot aqua regia solution followed by a MIBK extractive. Gold analysis of the MIBK extract was carried out on an Atomic Absorption spectrophotometer. Analysis for Ag, Cu, As, Sb and Zn was carried by ICP.

APPENDIX II

Assay Results

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. HG ANALYSIS BY FLAMELESS AA.

DATE RECEIVED: OCT 3 1988 DATE REPORT MAILED: Oct 7/88 ASSAYER: C. Leong, D. TOYE OR C. LEONG, CERTIFIED B.C. ASSAYERS

MINEQUEST EXPLORATION PROJECT ECHO File # 88-4943 Page 1

Table with columns: SAMPLE#, Mo, Cu, Pb, Zn, Ag, Ni, Co, Mn, Fe, As, U, Au, Th, Sr, Cd, Sb, Bi, V, Cr, F, Ia, Cr, Mg, Ba, Ti, B, Al, Na, K, W, Au*, Hg. Rows list various sample numbers (e.g., ZBB-8801, ZBB-8802) and their corresponding element concentrations in PPM.

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	C PPM	Au PPM	Tb PPM	Sr PPM	Ca PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB	Hg PPB
88B-3337	17	34	3	33	.2	3	4	397	2.24	2	5	ND	2	25	1	2	3	31	.68	.085	8	6	.50	24	.09	5	1.00	.05	.21	2	2	5
88B-3338	1	15	7	12	.2	2	3	127	1.04	190	5	ND	1	4	1	2	3	3	.29	.013	2	3	.97	10	.01	2	.17	.91	.02	1	3	5
88B-3339	1	13	3	15	.1	2	3	115	.75	966	5	ND	1	5	1	2	2	6	.14	.022	2	4	.06	8	.02	2	.13	.01	.04	1	1	5
88B-3340	5	44	25	48	.5	5	7	186	2.08	2279	5	ND	2	29	1	2	3	26	.55	.153	9	10	.23	14	.02	9	.63	.05	.06	1	2	5
88B-3341	1	6	10	10	.1	1	1	95	.61	6	7	ND	10	2	1	2	2	1	.94	.335	4	2	.02	2	.01	2	.16	.02	.07	2	31	5
88B-3342	1	6	2	3	.2	1	1	51	.34	50	5	ND	1	4	1	2	2	2	.34	.035	2	2	.02	2	.01	2	.38	.91	.01	1	1	5
88B-3343	1	13	10	19	.2	1	1	80	.76	2	5	ND	4	2	1	2	3	1	.02	.002	2	2	.92	3	.01	2	.11	.01	.04	2	1	5
88B-3344	1	25	5	95	.3	3	4	515	2.17	4	5	ND	4	15	1	2	2	34	.30	.058	3	10	.54	25	.06	2	.77	.03	.16	1	6	5
88B-3345	1	22	24	183	.1	3	6	545	3.29	10	5	ND	4	9	2	2	2	36	.38	.069	12	7	.76	22	.01	2	1.12	.91	.07	1	3	5
88B-3346	1	6	3	4	.1	1	1	113	.50	2	3	ND	5	3	1	2	3	1	.03	.005	3	1	.01	14	.01	2	.15	.03	.07	1	5	5
88B-3347	1	4	2	22	.1	1	1	125	.60	2	5	ND	1	2	1	2	2	5	.05	.006	2	4	.08	4	.01	2	.15	.01	.02	2	1	5
88B-3348	4	64	3	79	.2	14	15	1033	3.47	2	5	ND	1	51	1	2	2	74	1.35	.148	3	19	1.25	82	.07	4	1.56	.94	.06	1	2	5
88B-3349	1	9	2	9	.1	5	2	81	.75	2	5	ND	1	11	1	2	2	11	.14	.006	2	6	.11	47	.02	2	.32	.02	.06	3	3	5
88B-3350	5	10	4	15	.1	2	3	304	1.12	2	5	ND	1	20	1	2	2	14	.31	.019	2	5	.31	30	.03	2	.66	.05	.05	1	3	5
88B-3351	1	11	2	16	.1	3	1	240	1.03	2	5	ND	1	25	1	2	2	13	.29	.010	2	3	.13	55	.02	2	.45	.03	.06	3	4	5
88B-3352	1	6	2	65	.1	4	5	425	1.37	2	5	ND	19	29	1	1	1	27	.20	.053	14	3	.44	102	.13	4	.33	.03	.33	1	3	5
88B-3353	1	7	3	19	.1	3	1	217	.91	6	5	ND	1	3	1	2	2	4	.06	.005	2	5	.97	5	.01	2	.15	.01	.02	3	2	5
88B-3354	1	7	7	31	.1	3	2	227	.95	5	5	ND	2	5	1	1	1	7	.11	.014	5	3	.11	15	.01	2	.22	.01	.33	1	1	5
88B-3355	1	15	22	90	.1	4	6	558	2.97	5	5	ND	3	18	1	1	2	41	.87	.062	13	7	.74	13	.01	2	1.23	.02	.05	1	2	5
88B-3356	1	11	10	33	.1	6	4	221	.39	4	5	ND	1	11	1	2	2	6	.67	.006	2	3	.39	9	.01	2	.25	.01	.33	1	3	5
88B-3357	1	13	14	29	.1	2	1	110	1.07	11	5	ND	1	2	1	1	3	3	.32	.006	2	3	.01	4	.01	2	.95	.01	.01	3	3	5
88B-3358	1	49	51	731	.2	5	6	653	3.35	3	5	ND	3	10	5	2	2	38	.25	.067	7	6	.74	25	.03	2	1.57	.91	.06	1	1	5
88B-3359	1	6	2	9	.1	3	1	95	.55	5	5	ND	1	3	1	2	2	3	.33	.001	2	6	.92	1	.01	2	.08	.01	.01	3	1	5
88B-3360	1	12	6	16	.2	1	1	80	1.31	2	5	ND	1	10	1	2	2	6	.05	.014	2	3	.03	7	.02	2	.10	.01	.01	1	1	5
88B-3361	1	14	5	12	.1	1	1	87	1.15	3	5	ND	1	7	1	2	2	2	.03	.005	2	4	.01	7	.01	2	.07	.01	.01	2	1	5
88B-3362	1	7	2	9	.1	3	1	61	.30	3	5	ND	1	4	1	2	2	2	.92	.007	2	2	.01	5	.01	3	.95	.01	.01	1	2	5
STD C/AU-3	18	58	42	132	6.6	66	20	1055	4.22	41	20	3	37	47	18	17	23	58	.49	.091	39	56	.94	175	.06	32	1.39	.66	.14	12	530	1300

MINEQUEST EXPLORATION PROJECT EHBM(CREIGHTON) FILE # 88-4547

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Tl	Sr	Cd	Sb	Bi	V	Cr	P	La	Cr	Hg	Ba	Ti	B	Al	Na	K	W	Au*	Hg
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPB	PPB	
14517	1	10	8	53	.3	5	6	225	1.70	3	5	ND	12	18	1	2	4	45	.31	.059	28	9	.29	167	.11	4	.51	.05	.39	1	1	5
14518	1	10	6	56	.6	5	6	302	1.79	2	5	ND	12	70	1	2	2	46	.52	.061	25	7	.39	267	.12	2	1.07	.06	.64	1	1	5
14519	5	11	2	31	.1	26	6	396	1.32	3	5	ND	1	114	1	2	2	17	2.24	.005	2	72	1.23	60	.01	2	.47	.01	.13	1	1	5
14520	9	47	5	44	.8	2	14	336	6.30	23	5	ND	3	13	1	2	2	26	.10	.034	2	3	.53	24	.22	5	.95	.03	.19	1	25	10
14523	3	12	5	37	.2	8	5	572	2.02	2	5	ND	10	46	1	2	3	25	.59	.044	66	17	.20	153	.06	5	.70	.02	.13	1	1	5
14524	2	6	2	17	.1	2	3	92	1.02	2	5	ND	3	8	1	2	5	6	.06	.027	19	7	.03	77	.01	2	.31	.01	.06	4	2	5
14525	9	84	2	34	.7	23	9	210	2.70	2	5	ND	1	23	1	2	2	20	.73	.084	2	15	.31	15	.12	2	.43	.04	.09	1	1	5
14526	1	4	2	2	.1	1	1	39	.28	3	5	ND	1	1	1	2	2	1	.01	.001	2	7	.01	2	.01	2	.02	.01	.01	8	1	5
14527	5	7	2	25	.1	8	1	145	.79	14	5	ND	4	4	1	2	3	8	.05	.018	3	24	.10	22	.02	2	.24	.02	.11	1	8	5
14528	27	23	5	38	.6	28	3	67	.81	2	5	ND	4	79	1	2	2	29	1.67	.066	13	10	.06	27	.04	2	1.94	.11	.04	9	1	5
STD C/AU-2	18	60	35	132	7.1	67	31	1059	3.91	37	16	8	37	47	18	17	19	58	.44	.091	39	53	.85	173	.06	33	1.78	.06	.13	12	510	1100

RW → field / RVL → file Creighton

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR NH FE SR CA P LA CR HG BA TI B W AND LIMITED FOR K AND AL. NO DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: ROCK 10th ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. HG ANALYSIS BY FLAMELESS AA.

DATE RECEIVED: AUG 3 1988 DATE REPORT MAILED: Aug 9/88 ASSAYER: *C. Leong* D. TOYE OR C. LEONG, CERTIFIED B.C. ASSAYERS

MINEQUEST EXPLORATION PROJECT CREIGHTON/ELB File # 88-3202

SAMPLE#	NO	Cu	Pb	Zn	Ag	Bi	Co	Mn	Fe	As	U	Au	Pb	Sr	Ca	SD	Bi	V	Cr	F	La	Cr	Hg	Ba	Ti	B	Al	Na	K	W	As ²	Hg
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	PPM	PPM	PPM	
C 14501	1	36	11	100	.1	114	40	1289	9.03	10	5	ND	1	842	1	2	2	96	2.45	.195	20	83	.90	378	.46	2	3.33	.39	.29	1	1	3
C 14502	4	62	7	171	.9	35	9	231	4.13	7	5	ND	1	110	1	2	2	37	2.14	.060	5	27	1.92	150	.02	2	1.75	.02	.30	1	5	5
C 14503	2	48	9	55	.4	8	16	487	5.64	8	5	ND	1	21	1	2	2	26	1.04	.039	2	3	.72	22	.17	3	1.32	.03	.11	1	11	5
C 14504	2	23	4	33	.2	5	19	330	4.03	10	5	ND	1	7	1	2	2	15	.15	.038	2	3	1.53	29	.12	5	1.37	.01	.10	1	4	5
C 14505	1	64	6	31	.3	1	3	268	2.67	2	5	ND	1	44	1	2	2	21	.42	.051	5	2	.43	61	.06	2	.93	.03	.07	1	1	5
C 14506	1	5	3	15	.1	2	5	207	.69	2	5	ND	7	231	1	2	2	18	.92	.024	25	7	.25	1443	.05	4	1.51	.06	.40	1	1	5
C 14507	1	20	17	103	.1	16	11	666	4.36	4	5	ND	4	257	1	2	2	93	1.58	.262	59	53	1.36	487	.27	5	2.12	.08	.54	1	1	5
C 14508	1	23	14	98	.1	17	11	795	4.63	2	5	ND	6	179	1	2	2	99	1.23	.240	60	57	1.55	629	.31	5	2.19	.17	1.28	1	1	5
C 14509	1	17	11	100	.1	24	11	815	4.46	2	5	ND	8	36	1	2	2	100	1.64	.213	62	59	1.89	172	.41	5	1.56	.15	.43	1	2	5
C 14510	1	19	9	51	.1	8	7	385	2.15	2	5	ND	5	181	1	2	2	57	1.14	.173	37	23	.52	930	.15	5	1.65	.06	.37	1	1	5
C 14511	2	15	4	42	.2	7	4	253	1.34	4	9	ND	5	92	1	2	2	36	.51	.073	23	15	.28	234	.08	5	.80	.04	.30	1	1	5
C 14512	1	2	11	27	.1	3	2	139	.75	3	7	ND	17	27	1	3	3	19	.33	.047	36	4	.24	180	.07	2	.75	.16	.72	1	1	5
C 14513	6	12	6	55	.1	12	10	1496	7.30	3	5	ND	8	11	1	2	2	58	.18	.101	19	14	.30	133	.07	6	.63	.03	.29	1	1	5
C 14514	20	43	13	104	.1	35	17	2152	14.10	10	5	ND	6	22	1	2	5	85	.49	.208	26	41	.58	83	.03	4	1.01	.01	.19	1	2	10
C 14515	3	147	4	15	.1	92	28	482	2.41	2	5	ND	1	155	1	2	2	24	2.21	.162	7	40	.22	130	.06	2	1.96	.17	.06	1	1	3
C 14516	1	7	3	16	.1	2	3	218	1.68	2	5	ND	4	41	1	2	2	39	.32	.058	10	4	.25	264	.09	4	.63	.05	.36	1	1	5
STD C/AN-2	17	57	36	131	7.0	66	27	1045	4.00	39	20	7	36	46	17	17	18	56	.46	.082	39	55	.90	171	.06	32	1.93	.06	.13	11	485	1300

ACME ANALYTICAL LABORATORIES LTD. DATE RECEIVED: SEP 19 1988
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716 DATE REPORT MAILED: *Sept. 23/88*

ASSAY CERTIFICATE

- SAMPLE TYPE: ROCK AU** BY FIRE ASSAY FROM 1/2 A.T.

File - Assayton

ASSAYER: *C. Leong* D. TOYE OR C. LEONG, CERTIFIED B.C. ASSAYERS

MINEQUEST EXPLORATION PROJECT EHBB FILE # 88-4597

SAMPLE#	AU** oz/t
GVB 001	.001
GVB 002	.001
GVB 003F	.001
GVB 004	.001
GVB 006	.001
GVB 007	.001
GVB 008	.001
GVB 009	.001
GVB 010	.001
JWB 001	.001
FJWB 002	.001
JWB 003	.001
JWB 004	.001
JWB 005	.001
FJWB 006	.002
FJWB 007	.001
FJWB 008	.001
JWB 009	.001
JWB 010	.001
JWB 011	.001
JWB 012	.001
JWB 013	.001
JWB 014	.001
JWB 015	.001
FJWB 016	.001
FJWB 017	.001
JWB 018	.001
JWB 019	.001
FJWB 020	.001
JWB 021	.001

ACME ANALYTICAL LABORATORIES LTD.

DATE RECEIVED: OCT 26 1988

8521 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE (604) 253-3158

FAX (604) 253-1716

DATE REPORT MAILED:

C.L. 28/88.

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.

- SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

File EH BB-CREIGNON R.H., E.W.

SIGNED BY: *C. Leong*. D. TOYE, C. LEONG, B. CHAN, J. WANG; CERTIFIED B.C. ASSAYERS

MINEQUEST EXPLORATION PROJECT-EHBB FILE # 88-4597R

SAMPLE#	Cu PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
GVB 001	75	127	.5	5	2	5
GVB 002	21	19	.2	2	2	36
GVB 003F	1	8	.1	2	2	1
GVB 004	74	12	.3	4	2	12
GVB 006	68	57	.1	4	2	7
GVB 007	14	73	.1	4	2	2
GVB 008	34	68	.1	7	2	1
GVB 009	15	35	.1	2	2	12
GVB 010	66	159	.6	2	2	13
JWB 001	39	98	.3	3	2	11
FJWB 002	67	36	.3	10	2	9
JWB 003	49	83	.1	2	2	2
JWB 004	81	289	.5	2	2	18
JWB 005	85	189	.3	7	2	15
FJWB 006	44	70	.7	4	2	95
FJWB 007	71	6	.2	2	2	6
FJWB 008	11	5	.1	2	2	7
JWB 009	4	13	.1	2	2	5
JWB 010	12	3	.1	2	2	2
JWB 011	34	39	.1	2	2	4
JWB 012	8	7	.2	2	2	2
JWB 013	97	45	.1	2	2	1
JWB 014	4	7	.1	2	2	3
JWB 015	12	43	.1	7	2	4
FJWB 016	4	14	.1	3	2	1
FJWB 017	9	14	.1	3	2	5
JWB 018	14	12	.5	4	2	10
JWB 019	20	94	.1	3	2	32
FJWB 020	139	69	1.0	69	2	7
JWB 021	66	188	.5	6	2	1
STD C/AU-R	57	132	7.2	39	16	510

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE (604) 253-3158 FAX (604) 253-1716

DATE RECEIVED: OCT 24 1988

DATE REPORT MAILED:

GEOCHEMICAL ANALYSIS CERTIFICATE

File EHBB-Kreighton RVC, RW

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 20 GM SAMPLE.

SIGNED BY..... D.TOYE, C.LEONG, B.CHAN, J.WANG; CERTIFIED B.C. ASSAYERS

MINEQUEST EXPLORATION PROJECT EHBB FILE # 88-5381

SAMPLE#	Cu PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
JWB-033	9	14	1.9	4	2	5
JWB-034	21	60	.8	2	2	1
JWB-035	100	78	.2	2	2	6
JWB-036	57	120	.2	2	2	9
JWB-037	42	75	.3	2	2	1
JWB-038	413	109	.6	2	2	4
JWB-039	17	34	.1	9	2	6
JWB-040	171	154	.7	2	2	16

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: NOV 3 1988

DATE REPORT MAILED: *Nov 8/88*

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR NG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1 SOIL P2 ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

SIGNED BY: *C. Long* File *E+BB Creighton ROL, RW.*
D. TOYE, C. LEONG, B. CHAN, J. WANG; CERTIFIED B.C. ASSAYERS

MINEQUEST EXPLORATION FILE # 88-5634 Page 1

SAMPLE#	Cu PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
CL4 0+40N	111	104	.1	8	2	43
CL4 0+35N	73	115	.1	4	2	2
CL4 0+30N	67	92	.1	9	2	7
CL4 0+25N	124	140	.1	3	2	10
CL4 0+20N	140	114	.1	8	2	1
CL4 0+15N	94	116	.2	6	2	1
CL4 0+10N	132	109	.2	6	2	2
CL4 0+05N	49	100	.1	3	2	1
CL5 0+45N	116	108	.3	7	2	3
CL5 0+40N	131	110	.1	8	2	1
CL5 0+35N	153	134	.1	11	2	2
CL5 0+30N	159	137	.4	7	2	1
CL5 0+25N	124	142	.1	13	2	4
CL5 0+20N	45	99	.4	4	2	1
CL5 0+15N	48	166	.4	4	2	1
CL5 0+10N	44	391	.6	2	2	1
CL5 0+05N	14	163	.3	4	2	2
CL5 0+00N	110	83	.1	4	2	1
STD C/AU-S	59	132	6.5	38	16	49

SAMPLE#	Cu PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* (20g) PPB
JWB-022	123	69	.2	8	2	25
JWB-023	59	57	.5	2	2	5
JWB-024	35	71	.1	2	2	1
JWB-025	6	3	.1	2	2	1
JWB-026	5	22	.1	6	2	28
FJWB-027	29	14	.2	3	2	2
FJWB-028	22	25	.1	74	2	46
FJWB-029	1168	37	.6	2	2	1
FJWB-030	65	15	.2	2	2	2
FJWB-031	65	46	.1	2	2	3
FJWB-032	484	32	.2	3	2	15
RGL-448	85	40	.1	10	2	7
STD C/AU-R	57	131	7.1	37	18	515

ACME ANALYTICAL LABORATORIES LTD.

DATE RECEIVED: OCT 3 1988

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE(604)253-3158 FAX(604)253-1716 DATE REPORT MAILED: *Oct. 7/88.*

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.

- SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

ASSAYER: *C. Toy* D. TOYE OR C. LEONG, CERTIFIED B.C. ASSAYERS

MINEQUEST EXPLORATION PROJECT EHBB FILE # 88-4944

SAMPLE#	Cu PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
RGL-386	35	90	.1	9	2	1
RGL-387	42	81	.1	16	4	1
RGL-388	61	77	.1	4	2	1
RGL-389	38	103	.1	4	2	2
RGL-390	29	79	.1	15	11	1
RGL-391	36	138	.1	5	2	1
RGL-392	33	73	.1	3	2	1
RGL-393	84	85	.1	19	2	10
RGL-394	80	72	.1	16	2	1
RGL-395	33	73	.1	9	2	1
RGL-396	31	67	.1	8	2	2
RGL-408	30	66	.1	11	2	1
RGL-409	38	68	.1	2	2	1
RGL-410	38	74	.1	10	2	1
RGL-411	27	74	.1	15	4	1
RGL-412	36	76	.1	2	2	2
RGL-413	51	73	.1	7	2	1
RGL-414	36	82	.1	2	2	1
RGL-443	32	31	.1	10	2	6
RGL-444	28	26	.2	5	2	7
RGL-445	62	21	.1	2	2	11
RGL-446	64	31	.1	12	5	5
RGL-447	90	72	.2	2	2	1
RGL-449	47	25	.1	15	2	1
RGR-440	36	66	.1	9	2	1
RGR-441	39	60	.2	5	2	1
RGR-442	62	36	.1	19	2	2
RGR-443	20	42	.2	12	2	3
RGR-444	47	46	.2	7	2	1
RGR-445	51	63	.1	15	4	1
STD C/AU-R	62	133	7.0	42	16	485

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: NOV 3 1988

DATE REPORT MAILED: *Nov. 8./88...*

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPB.
- SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 20 GM SAMPLE.

File Creighton EHBB - R/L, RW

SIGNED BY: *C. Long* D. TOYE, C. LEONG, B. CHAN, J. WANG; CERTIFIED B.C. ASSAYERS

MINEQUEST EXPLORATION PROJECT EHBB FILE # 88-5635

SAMPLE#	Cu PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
E 67082	34	55	.1	4	2	33
E 67083	33	53	.1	2	3	7
E 67084	21	57	.1	2	2	15
E 67085	24	54	.1	2	2	4
E 67086	56	69	.1	5	3	1
E 67087	42	68	.1	5	2	2
E 67088	53	71	.1	6	2	1
E 67089	38	70	.1	5	2	1
E 67090	53	62	.1	2	2	1
E 67091	29	25	.1	2	2	7
E 67092	91	61	.1	3	2	1
E 67093	19	71	.1	9	2	2
JWB-041	76	73	.1	4	2	1
JWB-042	23	69	.1	3	2	2
STD C/AU-R	61	132	6.6	39	17	520

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: NOV 10 1988

DATE REPORT MAILED: *Nov. 16/88*

GEOCHEMICAL ANALYSIS CERTIFICATE

File EHHB-Craghton-RXC, RW, JW

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 20 GN SAMPLE.

SIGNED BY *C. Long* D. TOYE, C. LSONG, B. CHAN, J. WANG; CERTIFIED B.C. ASSAYERS

MINEQUEST EXPLORATION PROJECT EHHB FILE # 88-5760

SAMPLE#	Cu PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
67094	43	63	.2	7	2	2
67095	38	54	.1	5	2	1
67096	28	57	.1	5	2	1
67097	37	56	.3	6	2	1
67098	28	56	.2	5	2	2
67099	29	56	.1	8	2	1
67100	59	65	.2	3	3	1
67101	46	65	.3	4	2	21
67102	78	66	.2	6	2	1
67103	46	69	.2	8	2	1
67104	24	59	.3	11	2	11
67105	45	71	.3	10	2	2
67106	43	71	.3	9	3	1
67107	26	65	.3	4	2	1
67108	17	60	.3	7	2	1
67109	53	71	.2	12	2	1
67110	49	62	.4	7	2	1
67111	34	69	.3	4	2	1
67112	38	79	.3	9	3	1
STD C/AU-R	62	132	7.1	41	17	490

APPENDIX III

Geophysical Techniques

QPX Minerals Inc.
BONNEAU CLAIMS
Vernon Mining Division, B.C.

INDUCED POLARIZATION INSTRUMENTATION

The IP system used to carry out this survey was a time domain measuring system manufactured by Hunttec Limited of Toronto, Ontario.

The system consists of a Wagner Leland alternator, driven by a 25 horsepower Onan engine which supplies in excess of 7.5 kilowatts of 3 phase power to the ground at 400 hertz, a Mark II transmitter and TWO Mark IV microprocessor controlled receivers.

The Mark II transmitter was operated with a cycle time of 8 seconds and the duty cycle ratio: $[(\text{time on})/(\text{time on} + \text{time off})]$ was 0.5. This means the cycling sequence of the transmitter was 2 seconds current "on" and 2 seconds current "off" with consecutive pulses reversed in polarity.

The Mark IV receiver is microprocessor controlled, featuring automatic calibration, gain setting, SP cancellation, fault diagnosis and filter tuning. Operation of the instrument is controlled by 3 front panel switches and a keypad for requesting data on the digital display.

The delay time, the integration time and a number of other parameters may also be adjusted, by means of sub-panel switches to accommodate a wide range of geological

conditions. Measurements are calculated automatically every 4 to 8 seconds from the averaged waveform which is accumulated in memory at 2,048 sample points.

The instrument has 10 equal chargeability channels, M0, M1, M2, M3, M4, M5, M6, M7, M8, M9 (see Figure 1). These may be recorded individually, selectively or summed up automatically to obtain the total chargeability.

The apparent resistivity (ρ_a) in ohm-metres is calculated on the field computer, using the primary voltage (Vp), the measured current (I_g) and some factor (K) which is dependent on the geometry of the array used.

The instrument parameters chosen for this survey were as follows:

Cycle Time (T_C) = 8 seconds

Ratio (Time On) = 2:2
(Time Off)

Duty Cycle Ratio

$$\left[\frac{\text{(Time On)}}{\text{(Time On)} + \text{(Time Off)}} \right] = 0.5$$

Delay Time (T_D) = 120 milliseconds

Window Width (t_p) = 90 milliseconds

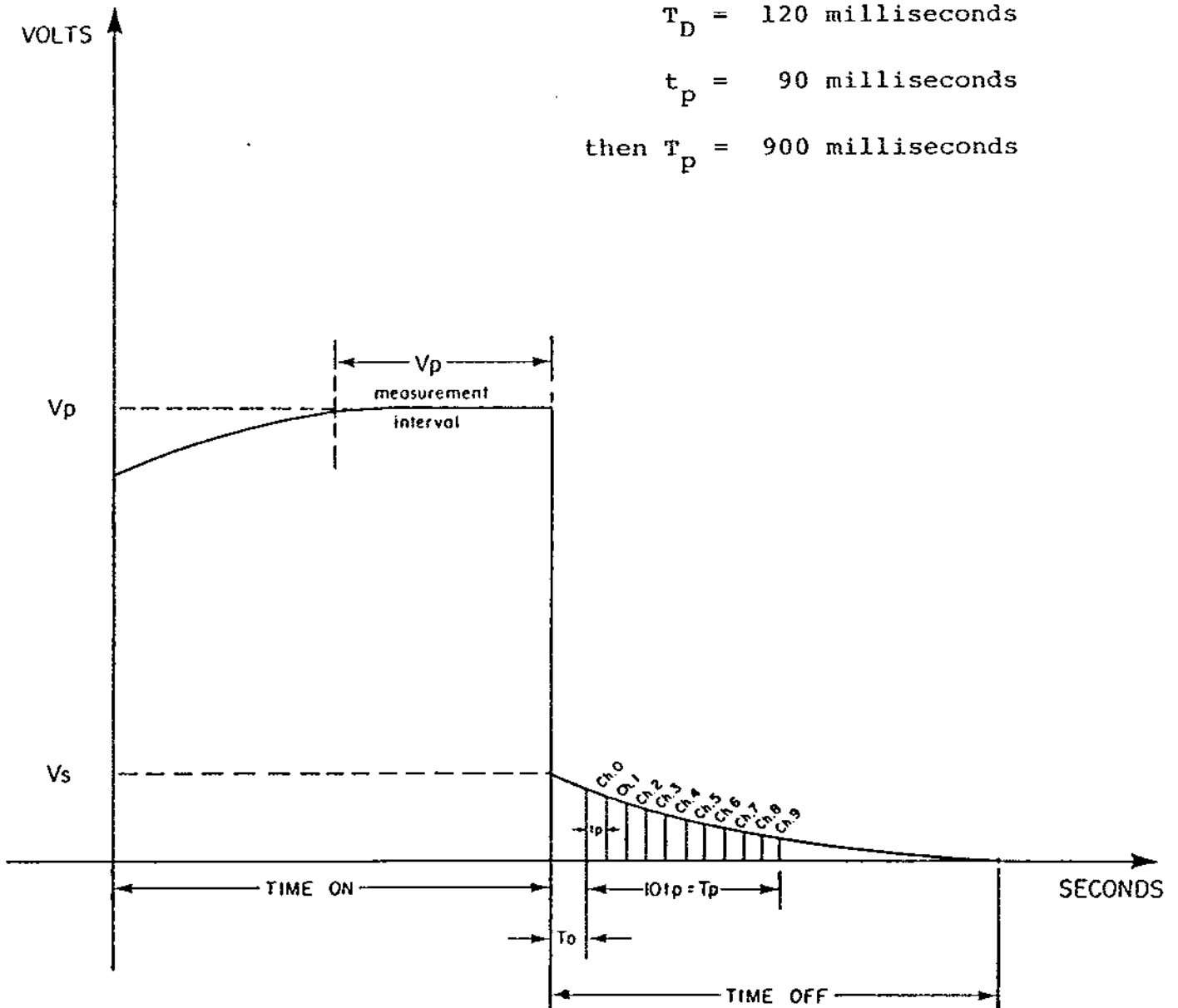
Total Integrating
Time (T_p) = 900 milliseconds

Parameters Used For Survey

$$T_D = 120 \text{ milliseconds}$$

$$t_p = 90 \text{ milliseconds}$$

$$\text{then } T_p = 900 \text{ milliseconds}$$

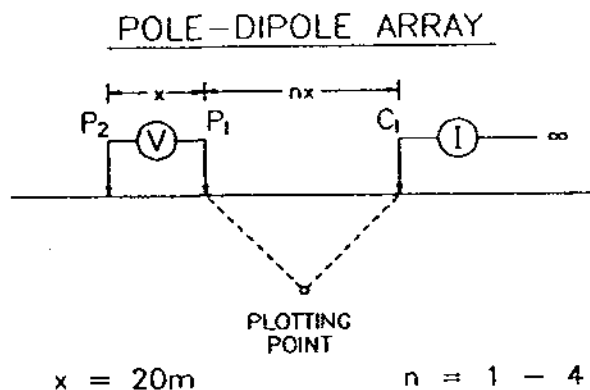


Mark IV Receiver Measurement Parameters

FIGURE 1

Induced Polarization Survey Specifications

The configuration of the POLE-DIPOLE array used for the survey is shown below:



The dipole length (x) is the distance between P_1 and P_2 and determines mainly the sensitivity of the array. The electrode separation (nx) is the distance between C_1 and P_1 and determines mainly the depth of penetration of the array.

The survey was carried out with $x = 20$ metres and measurements were taken for $n = 1, 2, 3$ and 4 .

DATA PROCESSING

The data collected was processed in the field at the end of each survey day using a portable Compaq 286 computer and an Epson printer.

The IP pseudo-sections were plotted out in the field and contoured using in-house software based on the mathematical solution known as krigging.

In the office the data was transferred to mylar using a Compaq 386 computer coupled to either a Hewlett Packard Draftmaster II Plotter or a DL2400 Fujitsu Printer for the preparation of the final sections.

DATA PRESENTATION

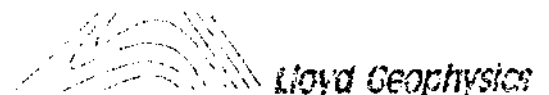
The data obtained from the surveys described in this report are presented on 10 pseudo-sections as follows:

<u>Line No.</u>	<u>Dwg. No.</u>
4875E	88278-1
4925E	88278-2
4975E	88278-3
5025E	88278-4
5075E	88278-5
5125E	88278-6
4925N	88278-7
4850N	88278-8
4800N	88278-9
4700N	88278-10

Respectfully Submitted,
LLOYD GEOPHYSICS LIMITED

John Lloyd

John Lloyd, M.Sc., P. Eng.
President



APPENDIX IV

Cost Statements

EHBB
Cost Statement
April 1 To December 31, 1988

	<u>TOTAL</u>
MineQuest Personnel	\$ 5,361.35
Temporary Staff	70,045.15
Consultants	14,139.75
Casual Staff	188.45
 <u>Disbursements:</u>	
Air fares	1,230.88
Rental vehicles	5,702.75
M.Q. rental vehicle	825.00
Vehicle repairs & maintenance	119.83
Fuels & lubricants	1,561.54
Taxis/parking/bus fares	374.37
Freight	335.85
Bulldozing	5,377.50
Geophysics	17,513.28
Equipment rentals	3,222.89
Groceries	511.35
Food & accommodation (in field)	17,874.72
General supplies	971.74
Analyses	3,389.43
Telecommunications	851.60
Courier/postage/air express	304.19
Reprographics in house	67.55
Reprographics	134.97
Photocopies in house	110.29
Maps/reports/publications	15.28
Program management	6,150.43
Claims - record & renewal	2,012.00
Report prep/word processing	2.40
	<hr/>
	\$ 158,394.54
	<hr/> <hr/>

EHBB
April 1 to December 31, 1988

MINEQUEST STAFF

<u>MONTH</u>	<u>NAME</u>	<u>HRS/DAYS</u>	<u>TOTAL</u>
Apr	A.W. Gourlay	0.60 hrs	\$ 38.40
May	R.V. Longe	1.25 hrs	110.00
	A.W. Gourlay	7.70 hrs	492.80
Jun	R.V. Longe	6.00 hrs	528.00
	A.W. Gourlay	5.05 hrs	323.60
Jul	A.W. Gourlay	3.20 hrs	204.80
	R.V. Longe	1.50 hrs	132.00
Aug	A.W. Gourlay	0.30 hrs	19.20
	R.V. Longe	1.45 hrs	127.60
Sep	A.W. Gourlay	1.10 hrs	70.40
	R.V. Longe	6.90 hrs	607.20
Oct	A.W. Gourlay	1.70 hrs	108.80
	R.V. Longe	6.20 hrs	545.60
Nov	R.V. Longe	5.60 hrs	492.80
	A.W. Gourlay	3.15 days	1,208.15
Dec	A.W. Gourlay	5.50 hrs	352.00
		TOTAL	<u>\$ 5,361.35</u>

EHBB
Field Crew Breakdown
April 1 to December 31, 1988

TEMPORARY STAFF

<u>MONTH</u>	<u>NAME</u>	<u>HRS/DAYS</u>	<u>TOTAL</u>
May	D. Sketchley	1.00 hrs	64.00
	C. Stanford	2.70 days	812.50
	L. Lee	0.40 hrs	20.00
Jun	D. Sketchley	9.25 hrs	592.50
	C. Stanford	8.70 hrs	437.50
Jul	S. Dribnenki	2.00 days	400.00
	K. Miller	3.80 hrs	121.60
	R. Wasylyshyn	5.40 days	2,079.00
	D. Sketchley	1.50 days	582.80
Aug	C. Stanford	0.20 hrs	10.00
	S. Dribnenki	2.00 days	400.00
	P. Haering	1.00 days	165.00
	K. Miller	0.50 hrs	16.00
	R. Wasylyshyn	2.00 days	770.00
Sep	D. Sketchley	1.20 days	462.00
	R. Wasylyshyn	5.40 days	2,079.00
	S. Handley	15.00 days	2,475.00
	K. Miller	24.50 hrs	784.00
	C. Monroe	16.00 days	2,640.00
	T. Starbuck	3.00 days	390.00
	G. Vernon	11.00 days	2,685.00
	J. Weick	24.35 days	7,305.00
	C. Woolverton	4.00 days	740.00
	K. Bilquist	8.00 days	1,320.00
	R. Bilquist	8.00 days	1,880.00
Oct	C. Donders	6.00 hrs	192.00
	S. Handley	24.00 days	3,960.00
	P. Lloyd	11.00 days	1,815.00
	S. MacDougall	12.00 days	1,560.00
	K. Miller	17.00 hrs	544.00
	R. Wasylyshyn	2.70 days	1,039.50
	C. Monroe	15.00 days	2,475.00
	C. O'Neill	3.00 days	600.00
	T. Starbuck	2.00 days	260.00
	J. Weick	29.70 days	8,900.00
Nov	C. Woolverton	6.00 days	1,110.00
	C. Donders	5.50 hrs	176.00
	S. Handley	12.00 days	1,980.00
	P. Lloyd	17.30 days	2,854.50
	K. Miller	22.50 hrs	720.00

.../2

<u>MONTH</u>	<u>NAME</u>	<u>HRS/DAYS</u>	<u>TOTAL</u>
Nov	C. Nagati	0.50 days	117.50
	C. O'Neill	12.00 days	2,400.00
	R. Wasylyshyn	2.40 days	924.00
	J. Weick	16.00 days	4,800.00
	C. Woolverton	7.75 days	1,433.75
Dec	C. Donders	7.00 hrs	224.00
	K. Miller	7.50 hrs	224.00
	R. Wasylyshyn	3.00 days	1,155.00
	J. Weick	4.50 days	1,350.00
TOTAL			<u>\$70,045.15</u>

APPENDIX V

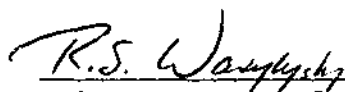
Statement of Qualifications

STATEMENT OF QUALIFICATIONS

I, Robert S. Wasylyshyn certify as follows:

1. I am a consulting geologist with an office at 1135 Montroyal Blvd., North Vancouver, B.C.
2. I am a graduate of the University of Alberta, Edmonton, Alberta (B.Sc., Geology, 1981).
3. I have practiced my profession continuously since graduation.
4. I am a Professional Geologist in good standing with the Association of Professional Engineers, Geologist and Geophysicists of Alberta.
5. I have no direct or indirect interest in the properties or in QPX Minerals Inc. nor do I expect to receive any interest.

Dated at Vancouver, British Columbia this 6
day of February, 1988?


Robert S. Wasylyshyn

APPENDIX VI

Statements of Work



MINERAL ACT

DOCUMENT No. _____
 OFFICE USE ONLY

Amc
 2004425 5010
 RECORDING STAMP

Statement of Work - Cash Payment

I. <u>Kevin Miller</u> (Name)	Agent for <u>QPX Minerals Inc.</u> (Name)
Valid subsisting FMC No. <u>260507</u>	Valid subsisting FMC No. <u>299640</u>
<u>500 - 164 Water Street</u> (Address)	<u>500 - 164 Water Street</u> (Address)
<u>Vancouver, B.C.</u>	<u>Vancouver, B.C.</u>
<u>V6B 1B5</u> <u>669-2251</u> (Postal Code) (Telephone Number)	<u>V6B 1B5</u> <u>669-2252</u> (Postal Code) (Telephone Number)

STATE THAT: [Note: If only paying cash in lieu, turn to reverse and complete columns G to J and S to V.]

1. I have done, or caused to be done, work on the ECHO II, ECHO III, (Part of Creighton Echo 88 Group)
 Claim(s)

Record No(s) 1335, 1351

Situate at Bonneau Creek in the Vernon Mining Division.

Work was done from May 1, 19 88, to November 23, 19 88.

TYPE OF WORK

PHYSICAL: Work such as trenches, open cuts, adits, pits, shafts, reclamation, and construction of roads and trails. Details as required under section 13 of the Regulations, including the map and cost statement, must be given on this statement.

PROSPECTING: Details as required under section 9 of the Regulations must be submitted in a technical report. Prospecting work can only be claimed once by the same owner of the ground, and only during the first three years of ownership.

GEOLOGICAL, GEOPHYSICAL, GEOCHEMICAL, DRILLING: Details must be submitted in a technical report conforming to sections 5 through 8 (as appropriate) of the Regulations.

PORTABLE ASSESSMENT CREDIT (PAC) WITHDRAWAL: A maximum of 30% of the approved value of geological, geophysical, geochemical and/or drilling work on this statement may be withdrawn from the owner's or operator's PAC account and added to the work value on this statement.

TYPE OF WORK (Specify Physical (include details), Prospecting, Geological, etc.)	VALUE OF WORK		
	Physical	*Prospecting	*Geological etc.
<u>Geological, Geochemical, Geophysical, Drilling</u>			<u>53,350.00</u>
TOTALS	A	+ B	+ C <u>53,350.00</u>
PAC WITHDRAWAL - Maximum 30% of Value in Box C Only			E → E
from account(s) of _____	TOTAL <u>F53,350.00</u>		
* Who was the operator (provided the financing)? Name <u>QPX Minerals Inc.</u> Address <u>500 - 164 Water Street</u> <u>Vancouver, B.C.</u> Phone: <u>669-2252</u>	Transfer amount in Box F to reverse side of form and complete as required.		

F \$ 53,350.00 I WISH TO APPLY \$ 34,800.00 OF THE TOTAL VALUE FROM BOX F AS FOLLOWS:

Columns G through R inclusive MUST BE COMPLETED before work credits can be granted to claims.
 Columns G through J and S through V inclusive MUST BE COMPLETED before a cash payment or rental payment can be credited.
 Columns not applicable need not be completed.

Cash Payment

CLAIM IDENTIFICATION

G	H	I	J
CLAIM NAME (one claim/lease per line)	RECORD No.	No. OF UNITS*	CURRENT EXPIRY DATE
ECHO III	1351	18	1990
ECHO IV	1352	16	1988
HUMP III	1355	20	1988
HUMP IV	1357	16	1988

APPLICATION OF WORK CREDIT

WORK TO BE APPLIED			N	O	P	Q	R
VALUE	YEARS	EXCESS CREDIT	RECORDING FEES % OF K	PENALTY FEES 10% OF K	PRIOR EXCESS CREDIT BEING USED	NEW EXPIRY DATE	EXCESS CREDIT REMAINING
3,600	1		180			1991	
9,600	3		480			1991	
12,000	3		600			1991	
9,600	3		480			1991	
34800			1740				
TOTAL OF K			TOTAL OF N	TOTAL OF O			

CASH IN LIEU OF WORK OR LEASE RENTAL

S	T	U	V
CL	RECORDING FEES % OF S	MINERAL LEASE RENTAL	NEW EXPIRY DATE
TOTAL OF S	TOTAL OF T	TOTAL OF U	

NOTICE TO GROUP No. 0389615 338 RECORDED March 4, 1988

* 2 POST FRACTION. REV CROWN GRANT ARE 1 UNIT EACH

Value of work to be credited to portable assessment credit (PAC) account(s).
 (May only be credited from the approved value of Box C not applied to claims.)

Name	AMOUNT
1. QPX Minerals Inc.	18,550.00
2.	
3.	

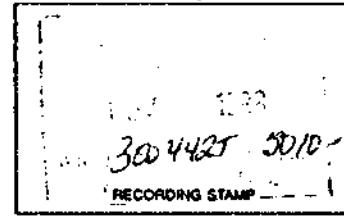
I, the undersigned Free Miner, hereby acknowledge and understand that it is an offence to knowingly make a false statement or provide false information under the Mineral Act. I further acknowledge and understand that if the statements made, or information given, in this Statement of Exploration and Development are found to be false and the exploration and development has not been performed, as alleged in this Statement of Exploration and Development, then the work reported on this statement will be cancelled and the subject mineral claim(s) may, as a result, forfeit to and vest back to the Province.

[Signature]
 Signature of Applicant



MINERAL ACT

DOCUMENT No. 76
OFFICE USE ONLY



Statement of Work — Cash Payment

I. <u>Kevin Miller</u> (Name) <u>MILLKM</u>	Agent for <u>QPX Minerals Inc.</u> (Name)
Valid subsisting FMC No. <u>260507</u>	Valid subsisting FMC No. <u>299640</u> <u>QPX III</u>
<u>500 - 164 Water Street</u> (Address)	<u>500 - 164 Water Street</u> (Address)
<u>Vancouver, B.C.</u>	<u>Vancouver, B.C.</u>
<u>V6B 1B5</u> (Postal Code)	<u>V6B 1B5</u> (Postal Code)
<u>669-2251</u> (Telephone Number)	<u>669-2252</u> (Telephone Number)

STATE THAT: (Note: If only paying cash in lieu, turn to reverse and complete columns G to J and S to V.)

1. I have done, or caused to be done, work on the BONNEAU BONNE I (Part of the
Creighton BONNEAU 88 Group) Claim(s)

Record No(s) 1350, 2308

Situate at Bonneau Creek in the Vernon Mining Division.

Work was done from May 1, 1988, to November 13, 1988.

TYPE OF WORK

PHYSICAL: Work such as trenches, open cuts, adits, pits, shafts, reclamation, and construction of roads and trails. Details as required under section 13 of the Regulations, including the map and cost statement, must be given on this statement.

PROSPECTING: Details as required under section 9 of the Regulations must be submitted in a technical report. Prospecting work can only be claimed once by the same owner of the ground, and only during the first three years of ownership.

GEOLOGICAL, GEOPHYSICAL, GEOCHEMICAL, DRILLING: Details must be submitted in a technical report conforming to sections 5 through 8 (as appropriate) of the Regulations.

PORTABLE ASSESSMENT CREDIT (PAC) WITHDRAWAL: A maximum of 30% of the approved value of geological, geophysical, geochemical and/or drilling work on this statement may be withdrawn from the owner's or operator's PAC account and added to the work value on this statement.

TYPE OF WORK (Specify Physical (include details), Prospecting, Geological, etc.)	VALUE OF WORK		
	Physical	*Prospecting	*Geological etc.
<u>Geological, Geophysical, Geochemical, Drilling.</u>			<u>53,350.00</u>
TOTALS	A	+ B	+ C 53,350.00
PAC WITHDRAWAL — Maximum 30% of Value in Box C Only			E — E
from account(s) of _____			TOTAL F 53,350.00
* Who was the operator (provided the financing)? Name <u>QPX Minerals Inc.</u> Address <u>500 - 164 Water Street</u> <u>Vancouver, B.C.</u> Phone: <u>669-2252</u>	Transfer amount in Box F to reverse side of form and complete as required.		

F \$ 53,350.00 I WISH TO APPLY \$ 8,600.00 OF THE TOTAL VALUE FROM BOX F AS FOLLOWS:

Columns G through R inclusive MUST BE COMPLETED before work credits can be granted to claims.
Columns G through J and S through V inclusive MUST BE COMPLETED before a cash payment or rental payment can be credited.
Columns not applicable need not be completed.

Cash Payment

CLAIM IDENTIFICATION

APPLICATION OF WORK CREDIT

CASH IN LIEU OF WORK OR LEASE RENTAL

G	H	I	J
CLAIM NAME (one claim/lease per line)	RECORD No.	No. OF UNITS*	CURRENT EXPIRY DATE
ECHO I	1334	20	1990/1/29
BONNEAU I	1349	15	1990
BONNE II	2309	16	1990

K		L	M	N	O	P	Q	R
WORK TO BE APPLIED		EXCESS CREDIT	RECORDING FEES 5% OF K	PENALTY FEES 10% OF K	PRIOR EXCESS CREDIT BEING USED	NEW EXPIRY DATE	EXCESS CREDIT REMAINING	
VALUE	YEARS							
4000	1		200			1990		
3000	1		150			1991		
1600	1		80			1991		
8600			430					
TOTAL OF K			TOTAL OF N	TOTAL OF D				

S	T	U	V
CASH	RECORDING FEE 5% OF S	MINERAL LEASE RENTAL	NEW EXPIRY DATE
TOTAL OF S	TOTAL OF T	TOTAL OF U	

NOTICE TO GROUP No. 0389595 RECORDED March 4, 1988

* 2 POST FRACTION, REV. CROWN GRANT ARE 1 UNIT EACH

Value of work to be credited to portable assessment credit (PAC) account(s)
(May only be credited from the approved value of Box C not applied to claims.)

Name	AMOUNT
1. QPX Minerals Inc.	\$ 44,750
2. _____	
3. _____	

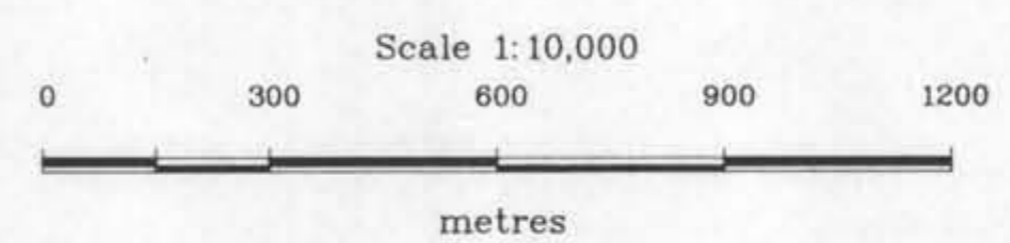
I, the undersigned Free Miner, hereby acknowledge and understand that it is an offence to knowingly make a false statement or provide false information under the Mineral Act. I further acknowledge and understand that if it statements made, or information given, in this Statement of Exploration and Development are found to be false at the exploration and development has not been performed, as alleged in this Statement of Exploration and Development, then the work reported on this statement will be cancelled and the subject mineral claim(s) may, as result, forfeit to and vest back to the Province.

[Signature]
Signature of Applicant



LEGEND

- ==== MAIN ACCESS ROADS (FORESTRY / LOGGING ROAD)
- SKIDDER OR CAT TRAIL



GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,350

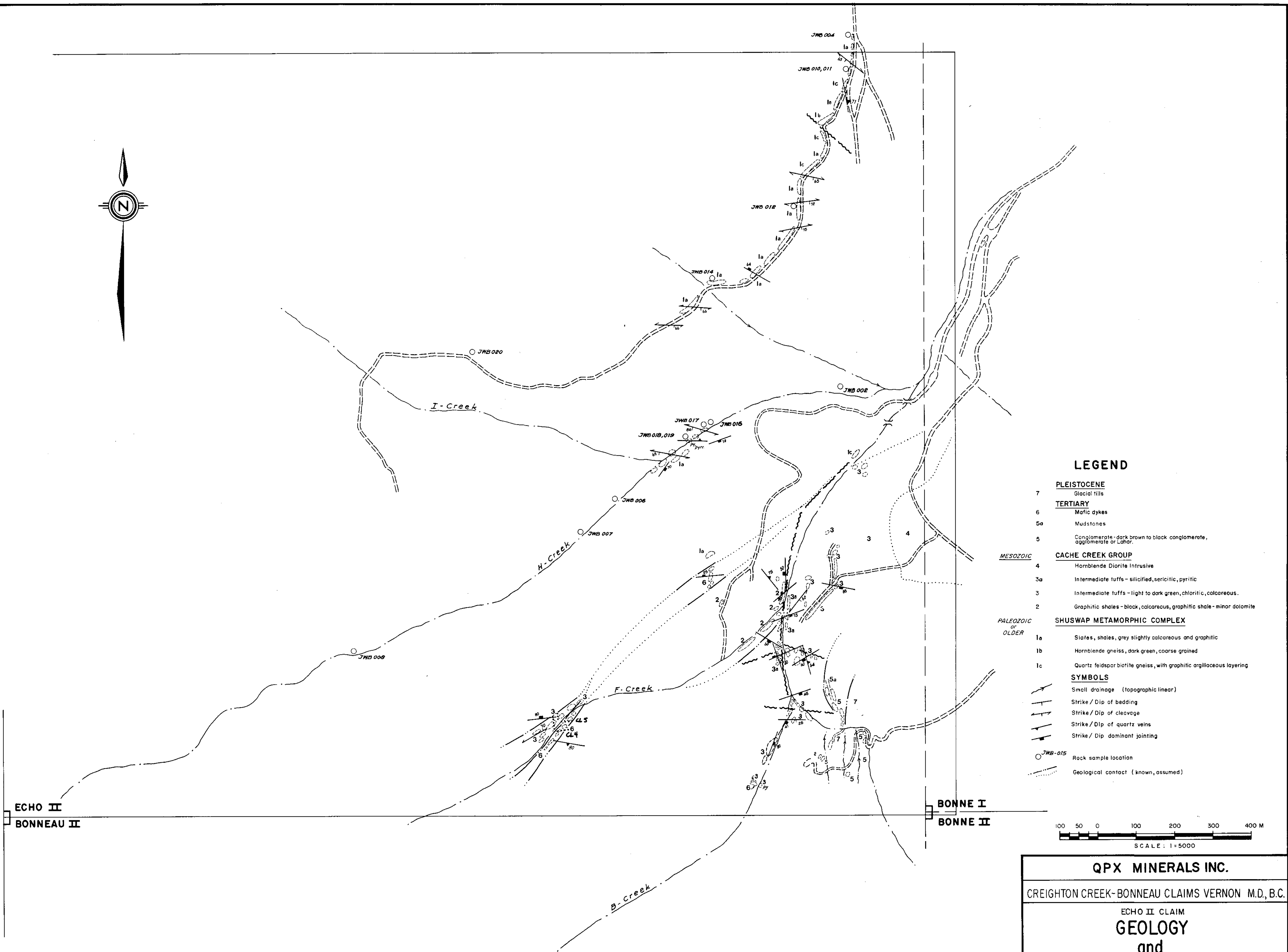
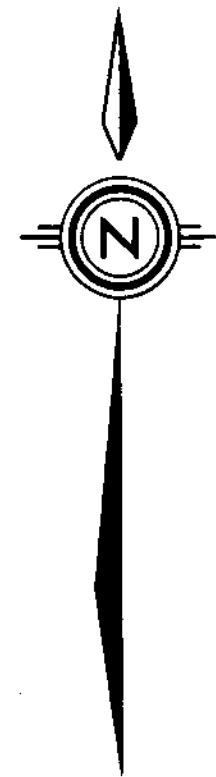
QPX MINERALS INC.

CREIGHTON CREEK- BONNEAU CLAIMS VERNON M.D., B.C.

ROAD ACCESS and GRID LOCATIONS

Original	Revision	Revision	Originator	Drawn	Date	PLAN No.	FIGURE
			R.J.W.	Geo-Comp	JAN '89	1433	2
						N.T.S.	
						82L/2	

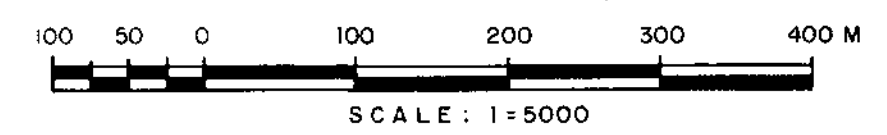
MINEQUEST EXPLORATION ASSOCIATES LTD.



ECHO II
BONNEAU II

BONNE I
BONNE II

- LEGEND**
- PLEISTOCENE**
7 Glacial fills
- TERTIARY**
6 Mafic dykes
5a Mudstones
5 Conglomerate - dark brown to black conglomerate, agglomerate or Lahar.
- MESOZOIC**
CACHE CREEK GROUP
4 Hornblende Diorite Intrusive
3a Intermediate tuffs - silicified, sericitic, pyritic
3 Intermediate tuffs - light to dark green, chloritic, calcareous.
2 Graphitic shales - black, calcareous, graphitic shale - minor dolomite
- PALEOZOIC or OLDER**
SHUSWAP METAMORPHIC COMPLEX
1a Slates, shales, grey slightly calcareous and graphitic
1b Hornblende gneiss, dark green, coarse grained
1c Quartz feldspar biotite gneiss, with graphitic argillaceous layering
- SYMBOLS**
Small drainage (topographic linear)
Strike / Dip of bedding
Strike / Dip of cleavage
Strike / Dip of quartz veins
Strike / Dip dominant jointing
- JWB-015 Rock sample location
--- Geological contact (known, assumed)



GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,350

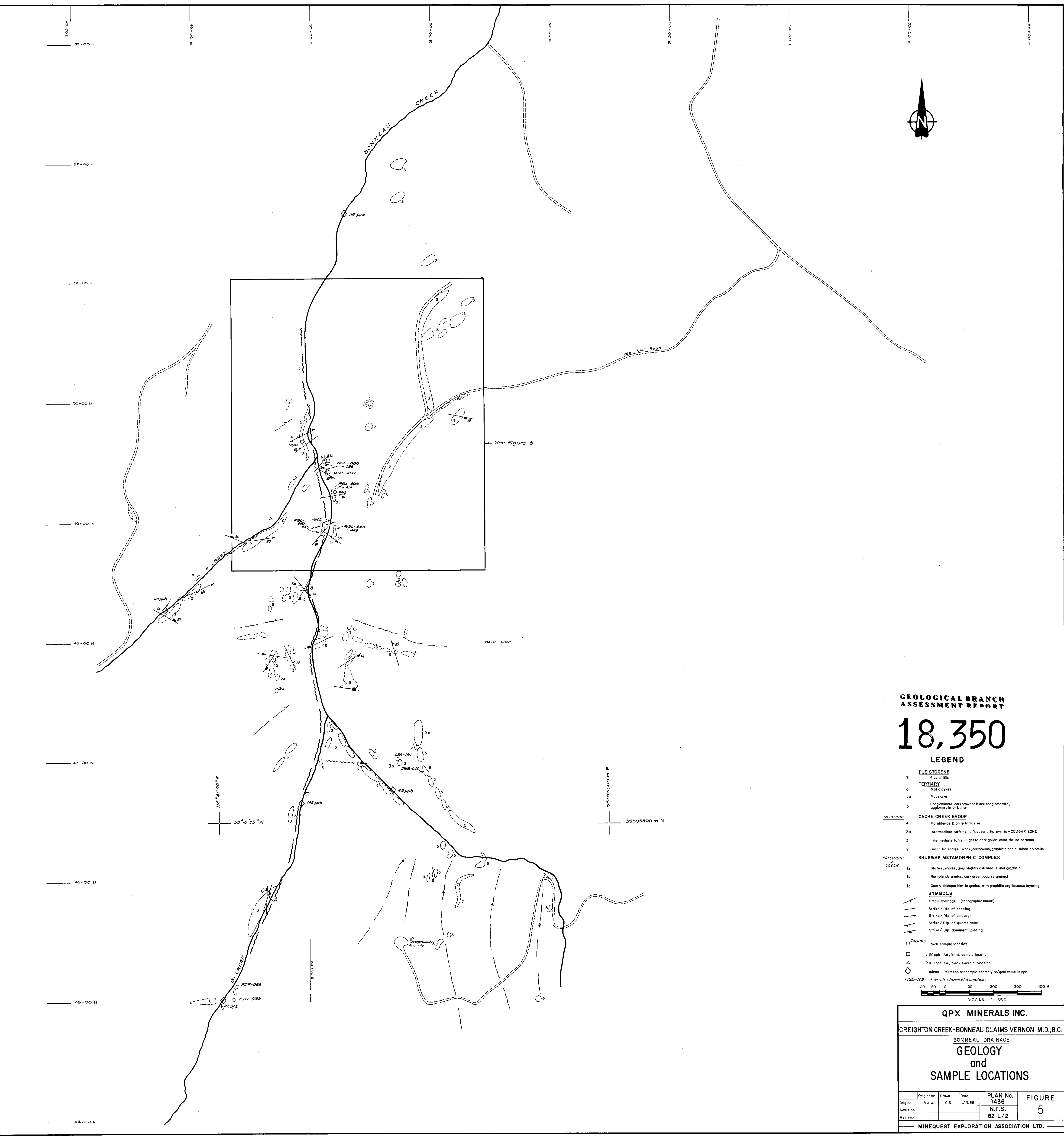
QPX MINERALS INC.

CREIGHTON CREEK-BONNEAU CLAIMS VERNON M.D., B.C.

ECHO II CLAIM
**GEOLOGY
and
SAMPLE LOCATIONS**

Originator	Drawn	Date	PLAN No.	FIGURE 4
Original	R.J.W.	C.D.	1435	
Revision			N.T.S.	
Revision			82-L/2	

MINEQUEST EXPLORATION ASSOCIATION LTD.



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

18,350

LEGEND

- PLEISTOCENE**
- 7 Glacial till
- TERTIARY**
- 6 Mafic dikes
- 5a Micasites
- 5 Conglomerate - soft brown to black conglomerate, agglomerate or Lahar
- MESOZOIC**
- CACHE CREEK GROUP**
- 4 Hornblende Diorite Intrusive
- 3a Intermediate tuffs - silicified, varicose, pyritic - COUGAR ZONE
- 3 Intermediate tuffs - light to dark green, chloritic, calcareous
- 2 Graphitic shales - black, calcareous, graphitic shale - minor dolomite
- PALEOZOIC**
- SHUSWAP METAMORPHIC COMPLEX**
- 1a Slates, shales, grey slightly calcareous and graphitic
- 1b Hornblende gneiss, dark green, coarse grained
- 1c Quartz feldspar biotite gneiss, with graphitic orthoquartzite layering
- SYMBOLS**
- Small drainage (topographic linear)
- Strike / Dip of bedding
- Strike / Dip of cleavage
- Strike / Dip of quartz veins
- Strike / Dip dominant jointing
- Rock sample location
- > 50ppb Au, bank sample location
- > 100ppb Au, bank sample location
- minus 270 mesh silt sample anomaly w/ gold value in ppb
- RSL-405 Trench channel samples



QPX MINERALS INC.				
CREIGHTON CREEK-BONNEAU CLAIMS VERNON M.D., B.C.				
BONNEAU DRAINAGE				
GEOLOGY and SAMPLE LOCATIONS				
Original	Originator	Drawn	Date	PLAN No.
Revision	R.J.W.	C.D.	04/88	1436
Revision				N.T.S.
Revision				82-L/2
				FIGURE 5
MINEQUEST EXPLORATION ASSOCIATION LTD.				

51+00 N

49+70 E

50+00 E

50+25 E

50+50 E

50+75 E

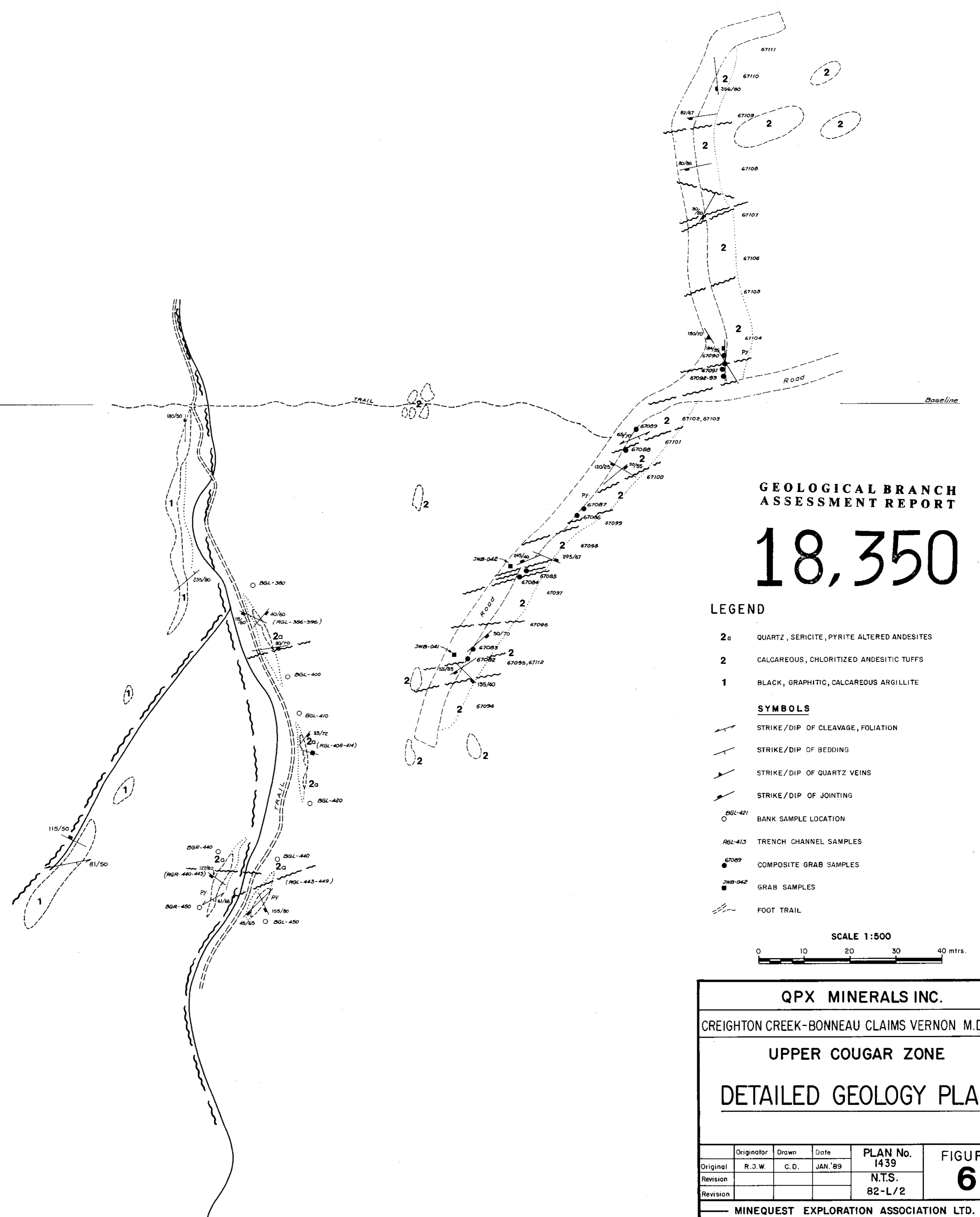
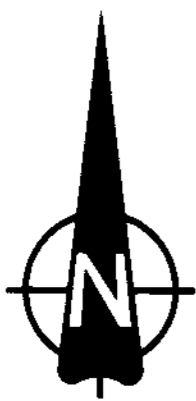
51+00 E

51+25 E

50+50 N

Baseline
50+00 N

49+50 N



GEOLOGICAL BRANCH ASSESSMENT REPORT

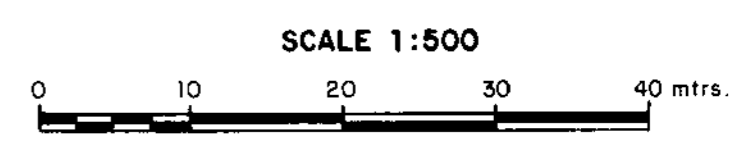
18,350

LEGEND

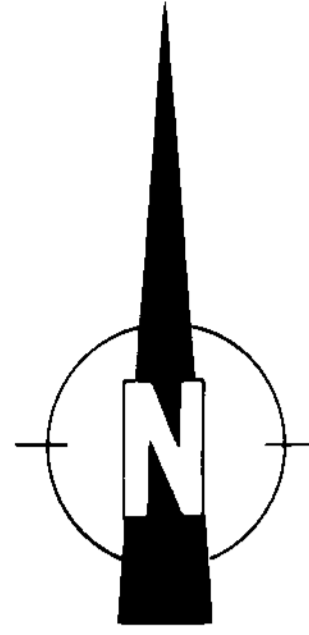
- 2a** QUARTZ, SERICITE, PYRITE ALTERED ANDESITES
- 2** CALCAREOUS, CHLORITIZED ANDESITIC TUFFS
- 1** BLACK, GRAPHITIC, CALCAREOUS ARGILLITE

SYMBOLS

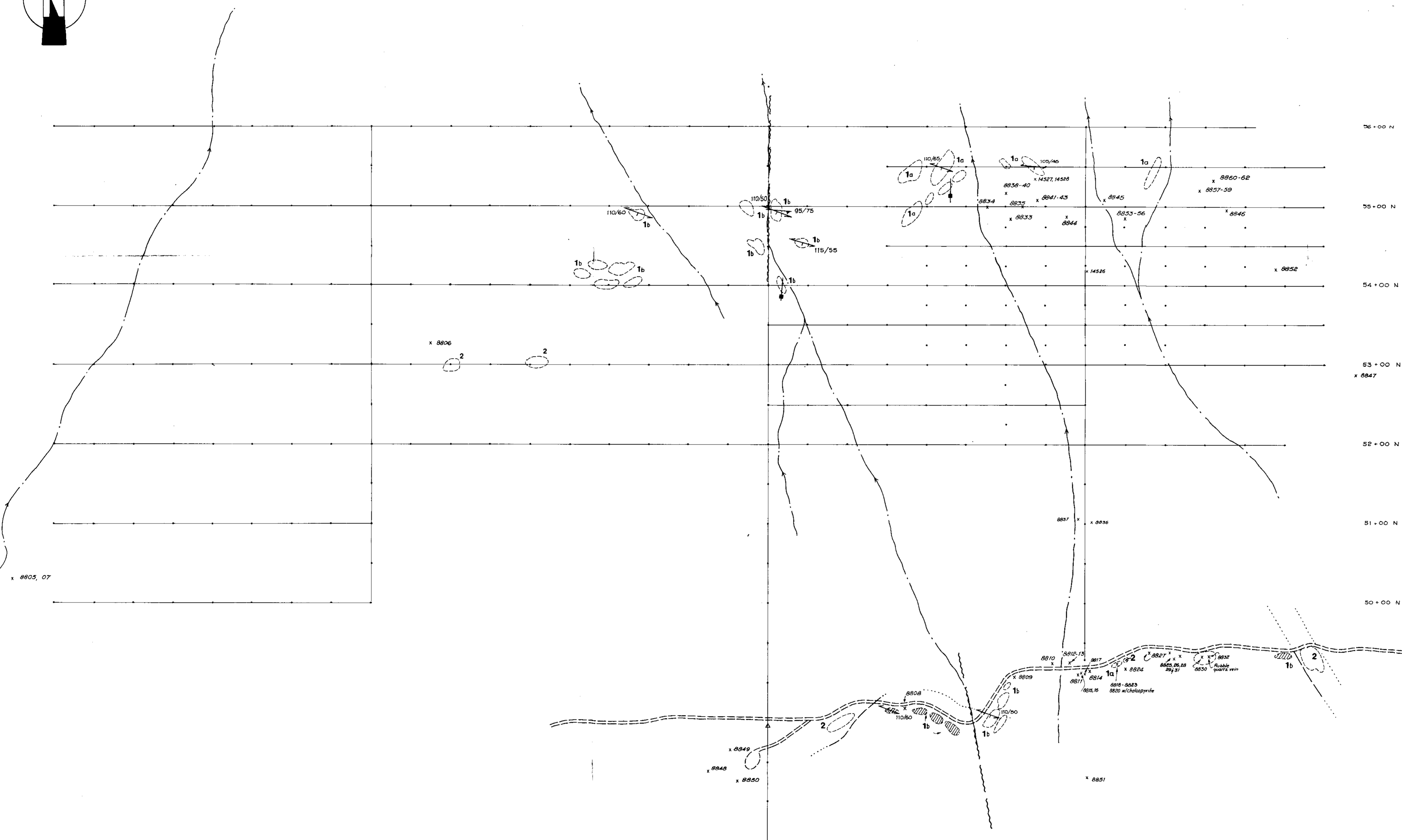
- STRIKE/DIP OF CLEAVAGE, FOLIATION
- STRIKE/DIP OF BEDDING
- STRIKE/DIP OF QUARTZ VEINS
- STRIKE/DIP OF JOINTING
- BGL-421 BANK SAMPLE LOCATION
- RGL-413 TRENCH CHANNEL SAMPLES
- 67089 COMPOSITE GRAB SAMPLES
- JWB-042 GRAB SAMPLES
- FOOT TRAIL



QPX MINERALS INC.			
CREIGHTON CREEK-BONNEAU CLAIMS VERNON M.D., B.C.			
UPPER COUGAR ZONE			
DETAILED GEOLOGY PLAN			
	Originator	Drawn	Date
Original	R.J.W.	C.D.	JAN '89
Revision			
Revision			
			PLAN No. 1439
			N.T.S.
			82-L/2
			FIGURE 6
MINEQUEST EXPLORATION ASSOCIATION LTD.			



33+00 E 34+00 E 35+00 E 36+00 E 37+00 E 38+00 E 39+00 E 40+00 E 41+00 E 42+00 E 43+00 E 44+00 E 45+00 E 46+00 E 47+00 E 48+00 E



LEGEND

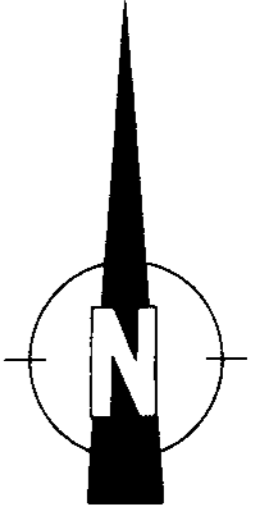
- 2 Light grey quartz feldspar porphyry dikes, rhyolite dikes
- SHUSWAP METAMORPHIC COMPLEX**
- 1b Medium grained quartz feldspar biotite gneiss with argillaceous layers 2-3 cm. thick.
- 1a Quartz feldspar gneiss interlayered with lenses of quartz.
- x 8802 Rock sample location
- Outcrop
- Oxidized/gossanous outcrop
- SYMBOLS**
- Geological contact: observed/inferred.
- Strike/dip of foliation
- Strike/dip of jointing
- Orientation of quartz vein.

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

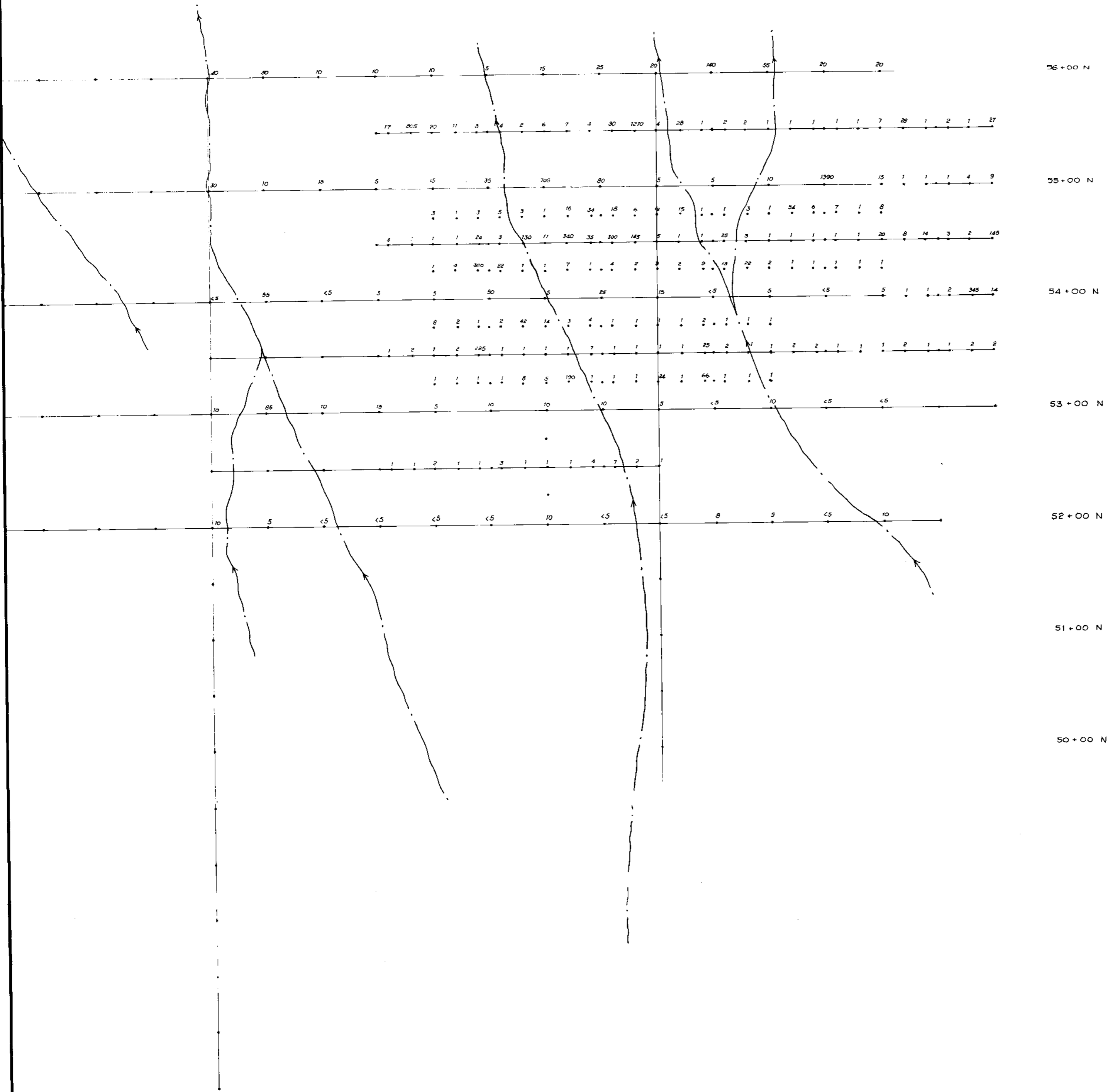
18,350

Scale: 1 = 2500
50 0 50 100 150

QPX MINERALS INC.				
CREIGHTON CREEK-BONNEAU CLAIMS VERNON M.D., B.C.				
ECHO III GRID				
GEOLOGY AND SAMPLE LOCATIONS				
<small>Originator</small>	<small>Drawn</small>	<small>Date</small>	<small>PLAN No.</small>	<small>FIG.</small>
<small>Original</small>	R.J.W.	C.D.	JAN'89	1439
<small>Revision</small>			N.T.S.	7
<small>Revision</small>			82-L/2	
<small>MINEQUEST EXPLORATION ASSOCIATION LTD.</small>				



40+00 E 41+00 E 42+00 E 43+00 E 44+00 E 45+00 E 46+00 E 47+00 E 48+00 E

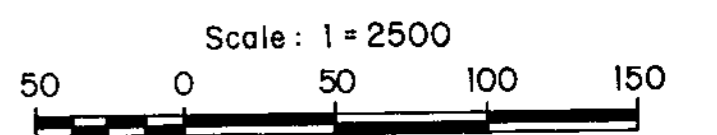


LEGEND

→ 18,350 Au in soil in ppb

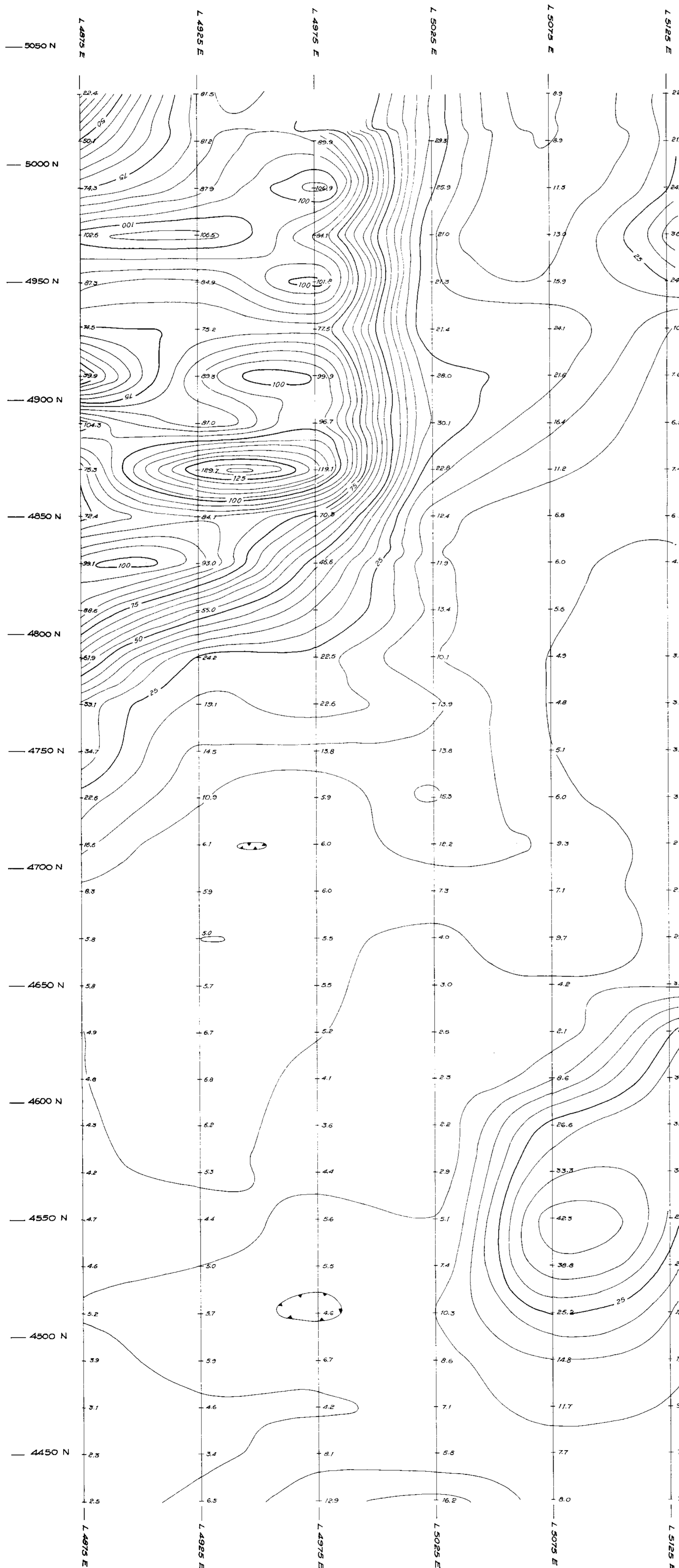
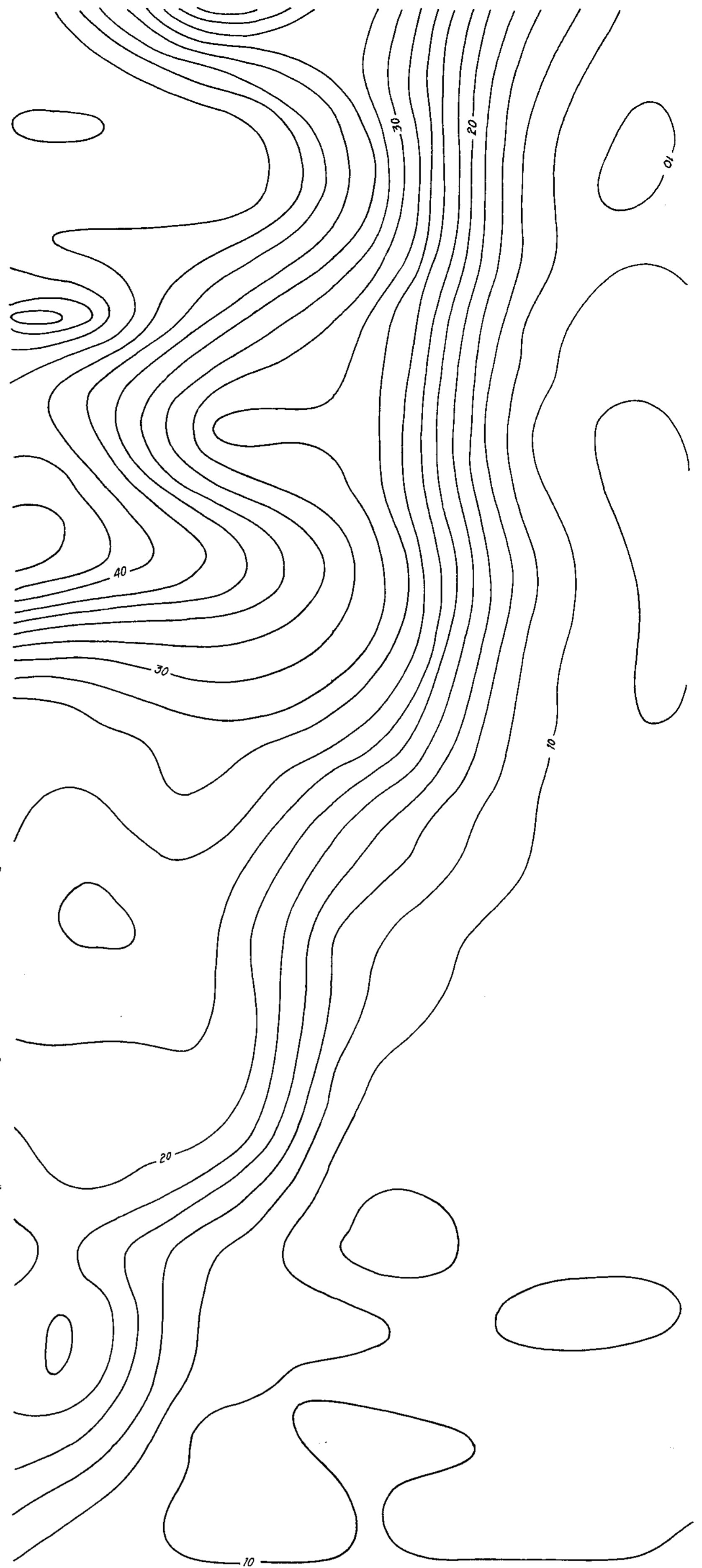
**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

18,350



QPX MINERALS INC.				
CREIGHTON CREEK-BONNEAU CLAIMS VERNON M.D., B.C.				
ECHO III GRID				
GEOCHEMISTRY				
GOLD in SOILS				
	Original	Drawn	Date	PLAN No.
Original	R.J.W.	C.D.	JAN '89	1439
Revision				N.T.S.
Revision				82-L/2
MINEQUEST EXPLORATION ASSOCIATION LTD.				

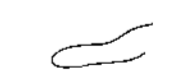
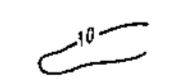
FIG.
8



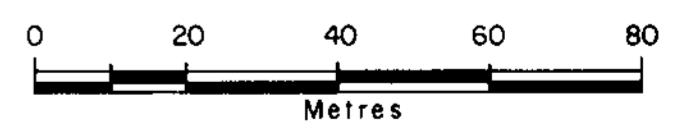
**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

18,350

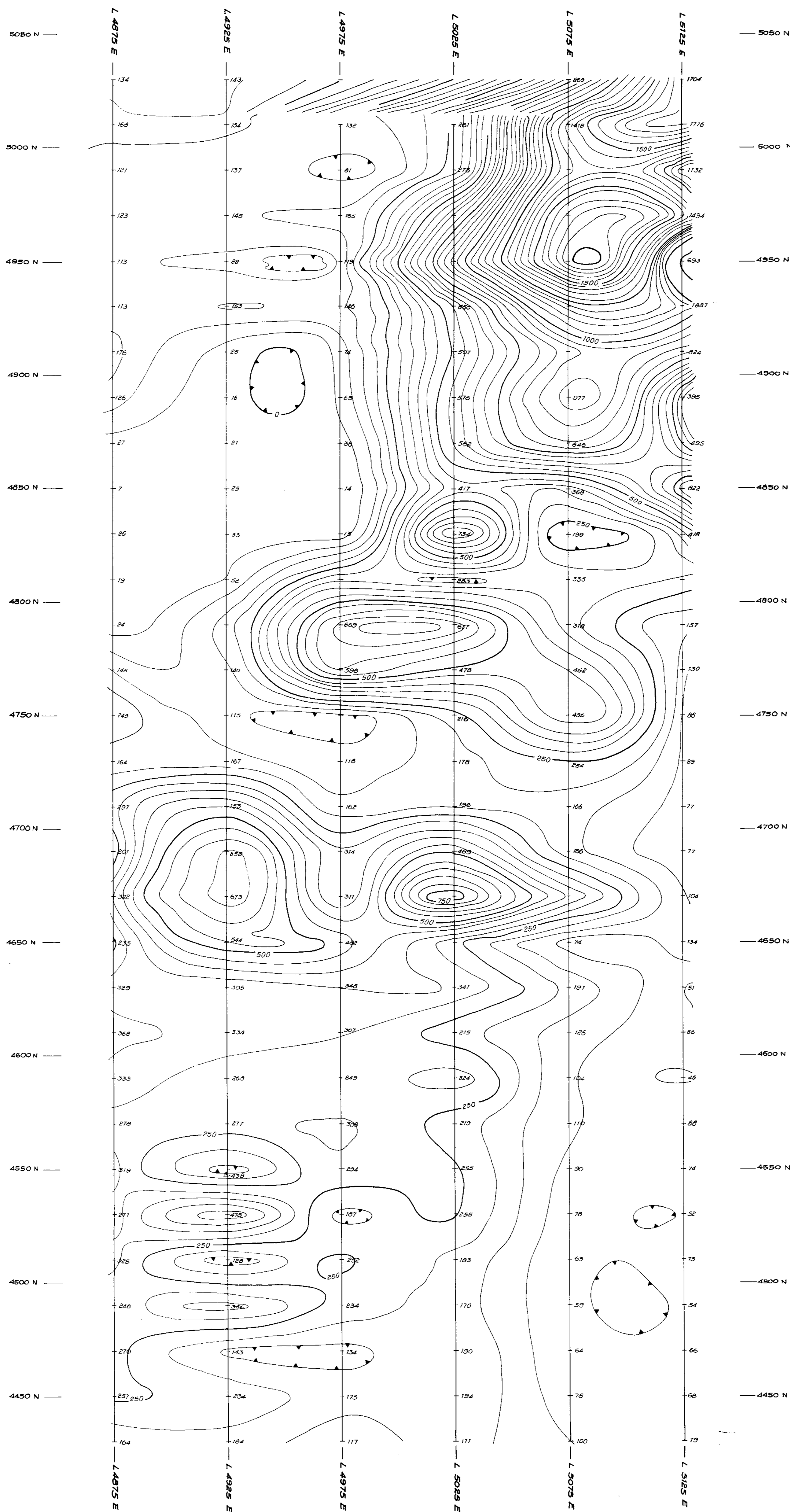
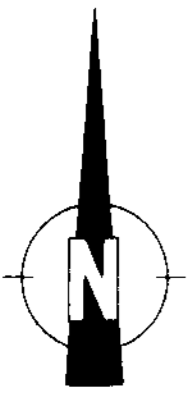
LEGEND

-  Chargeability - milliseconds (Pole-Dipole array)
-  Chargeability - milliseconds (Schlumberger array)

SCALE 1:1000

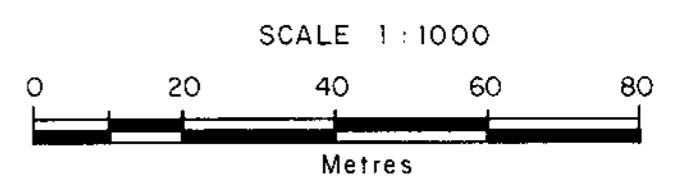


QPX MINERALS INC.				
CREIGHTON CREEK - BONNEAU CLAIMS VERNON M.D., B.C.				
BONNEAU GRID				
CHARGEABILITY PLAN MAP				
N = 1				
Original	R. S. W.	C. D.	JAN '89	PLAN NO. 1440
Revision				N.T.S.
Revision				82L/2
MINEQUEST EXPLORATION ASSOCIATION LTD.				
				FIGURE 9



GEOLOGICAL BRANCH
ASSESSMENT REPORT

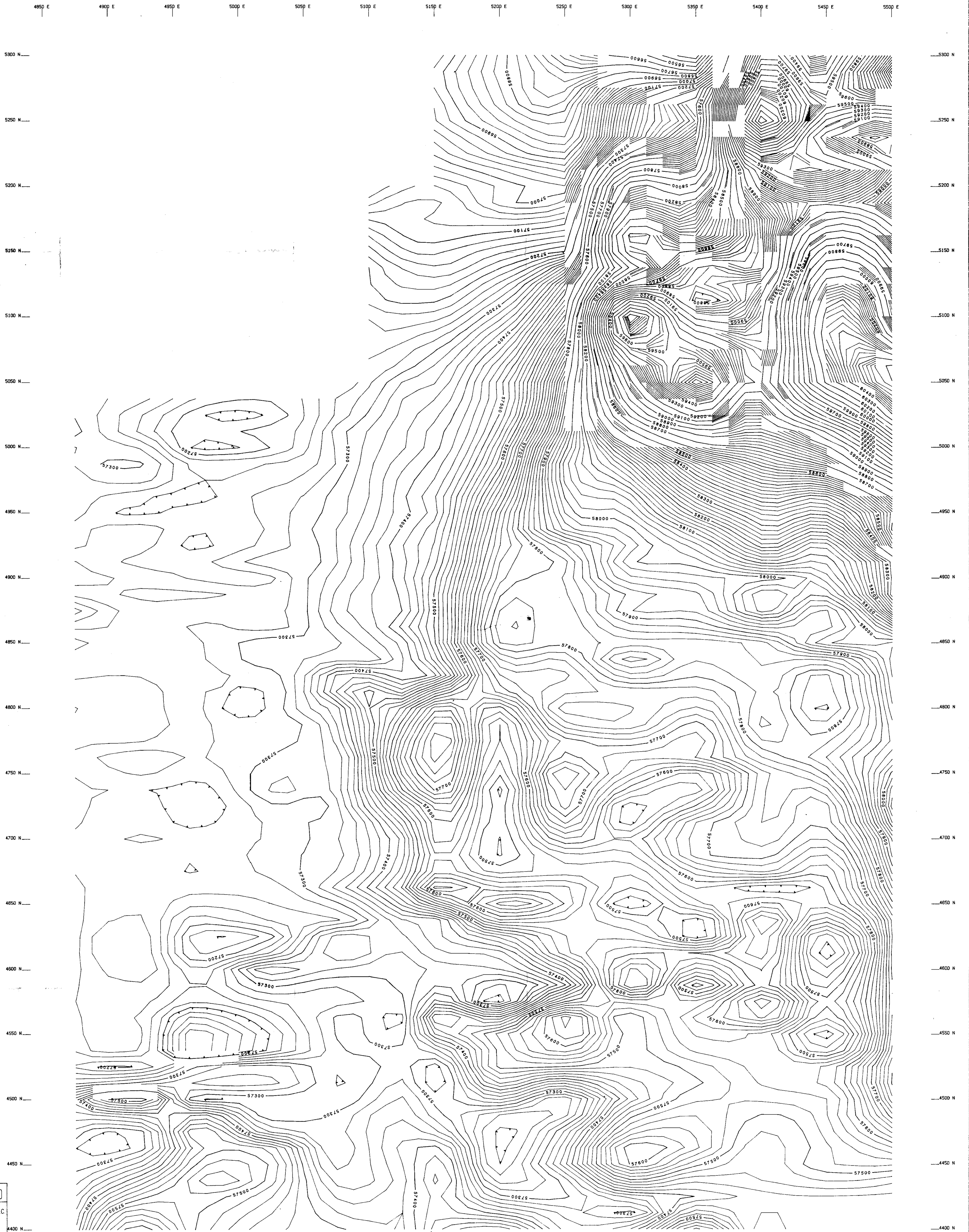
18,350



Legend
Resistivity in Ohm-metres (Pole-Dipole array)

QPX MINERALS INC.				
CREIGHTON CREEK- BONNEAU CLAIMS VERNON M.D.,B.C.				
BONNEAU GRID				
RESISTIVITY PLAN MAP				
N=1				
Original	Originator	Drawn	Date	PLAN No.
Revision	R.S.W.	C.D.	JAN '89	1441
Revision				N.T.S.
				82L/2
MINEQUEST EXPLORATION ASSOCIATION LTD.				

FIGURE
10



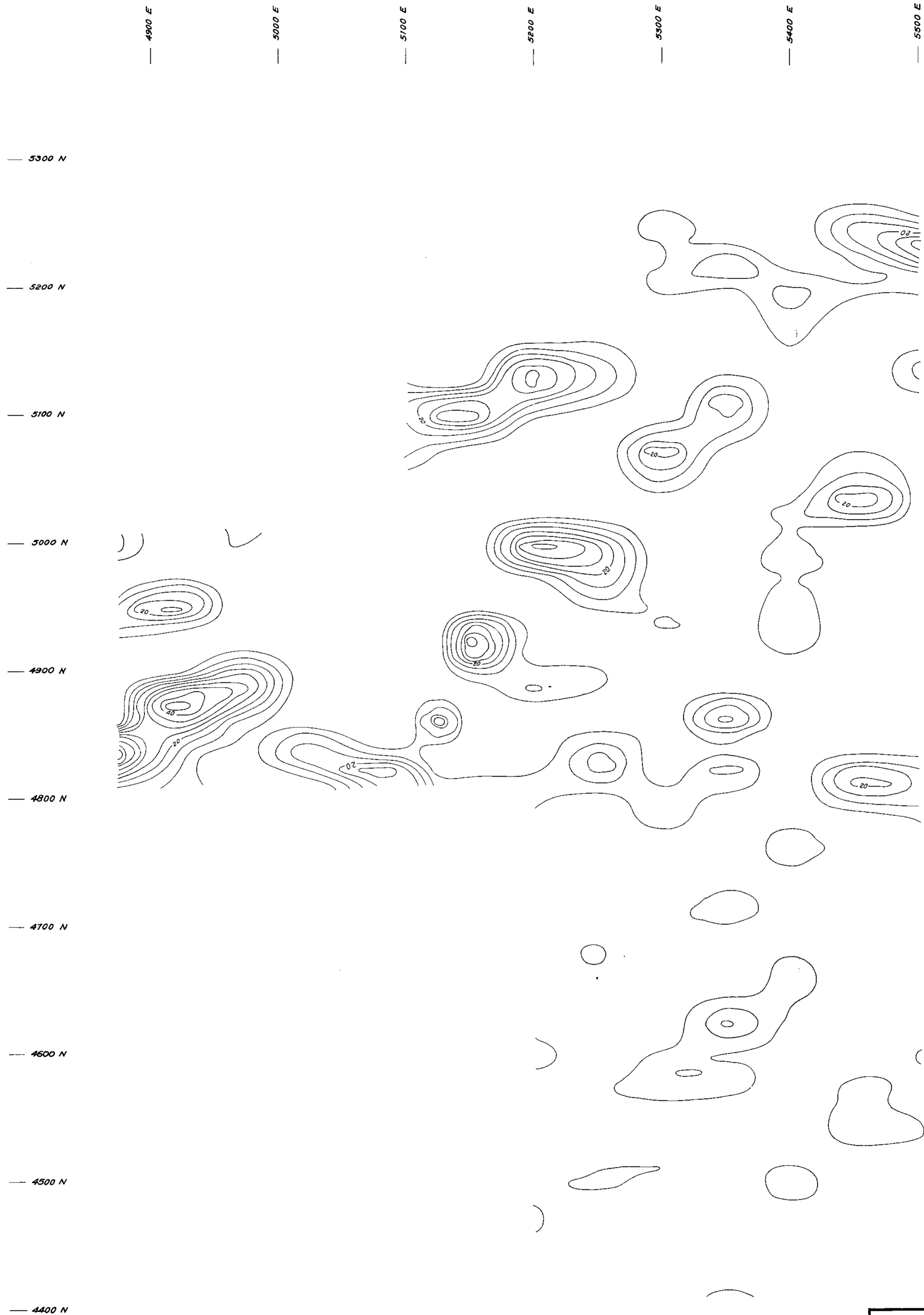
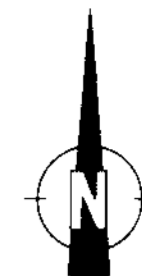
GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,350

LEGEND

59500 Magnetic contours in gammas

MINEQUEST EXPLORATION ASSOCIATES LTD
 CREIGHTON CREEK - BONNEAU CLAIMS, VERNON M.D., B.C.
BONNEAU PROPERTY
 VERNON, B.C.
 TOTAL FIELD MAGNETIC PLAN
 FIGURE 11 PLAN 628 JAN '89
 contour interval 20 nt
 SCALE 1:1000
 DELTA GEOSCIENCE LTD



GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,350

SCALE: 1:2000

QPX MINERALS INC.					
CREIGHTON CREEK-BONNEAU CLAIMS VERNON M.D., B.C.					
BONNEAU GRID					
FILTERED VLF PLAN					
(FRASER)					
24.8 Khz.					
DELTA GEOSCIENCE LTD.					
	Originator	Drawn	Date	PLAN No. 1442	FIGURE 12
Original	R.S.W.	C.D.	JAN '89		
Revision					
Revision				N.T.S. 82 L / 2	

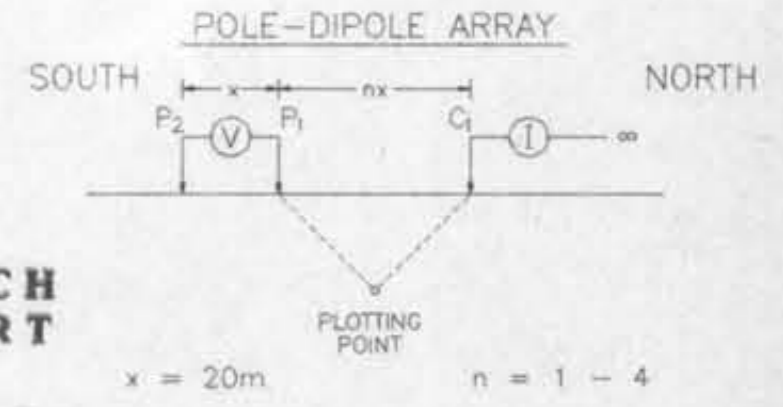
CONTOUR INTERVAL 5%

MINEQUEST EXPLORATION ASSOCIATION LTD.

QPX MINERALS INC.

BONNEAU CLAIMS
VERNON M.D. B.C.

LINE: 48+75E



GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,350

CURRENT ELECTRODE C₁ NORTH
OF POTENTIAL DIPOLE P₁P₂

SURFACE PROJECTION
OF ANOMALOUS ZONES

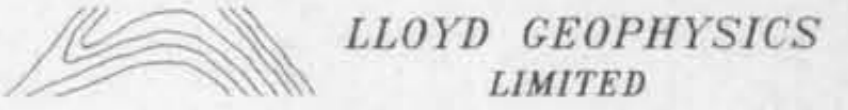
- DEFINITE
- PROBABLE
- POSSIBLE
- AT DEPTH

SCALE 1 : 1000

CONTOUR INTERVALS
APP.CHARGEABILITY : 10.0 (msec)
APP.RESISTIVITY : 50 (ohm-m)

DATE SURVEYED: Oct 13, 1988
Tx: Huntec Mk2 Model 7500
Rx: Huntec Mk4

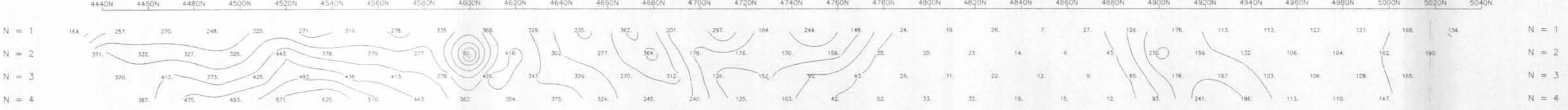
FIG. 13 PLAN 629



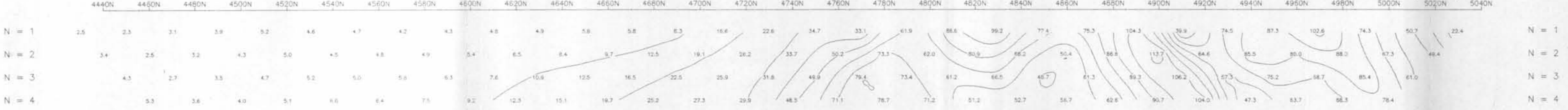
INDUCED POLARIZATION SURVEY

DRAWING NUMBER : 88278-1

RESISTIVITY (OHM-M)



CHARGEABILITY (MSEC)

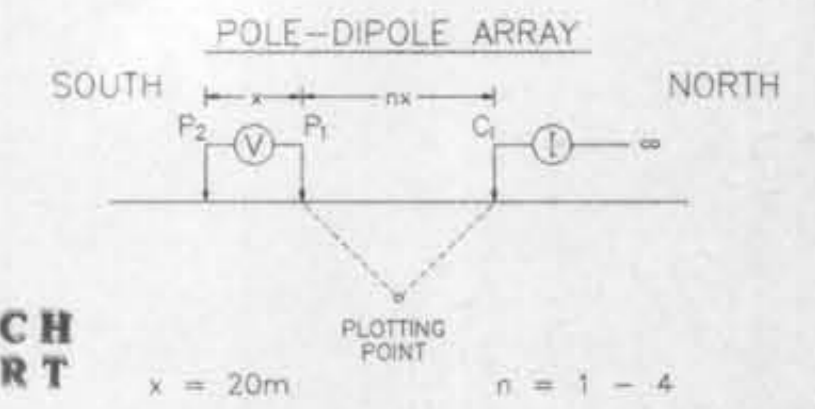


QPX MINERALS INC.

BONNEAU CLAIMS

VERNON M.D. B.C.

LINE: L49+25E



GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,350

CURRENT ELECTRODE C_1 NORTH
OF POTENTIAL DIPOLE P_1P_2

SURFACE PROJECTION
OF ANOMALOUS ZONES

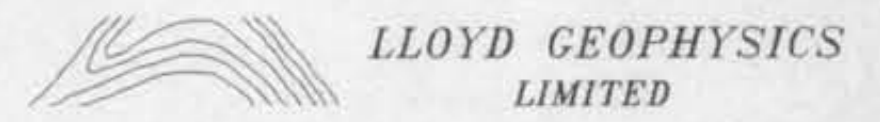
- DEFINITE
- PROBABLE
- POSSIBLE
- AT DEPTH

SCALE 1 : 1000

CONTOUR INTERVALS
APP. CHARGEABILITY : 10.0 (msec)
APP. RESISTIVITY : 100 (ohm-m)

DATE SURVEYED: August 23, 1988
Tx: Hunttec Mk2 Model 7500
Rx: Hunttec Mk4

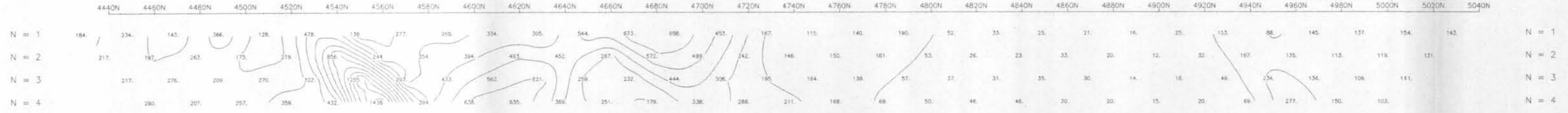
FIG. 14 PLAN 630



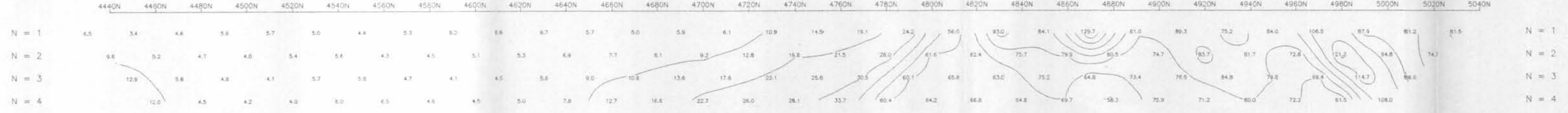
INDUCED POLARIZATION SURVEY

DRAWING NUMBER : 88278-2

RESISTIVITY (OHM-M)



CHARGEABILITY (MSEC)

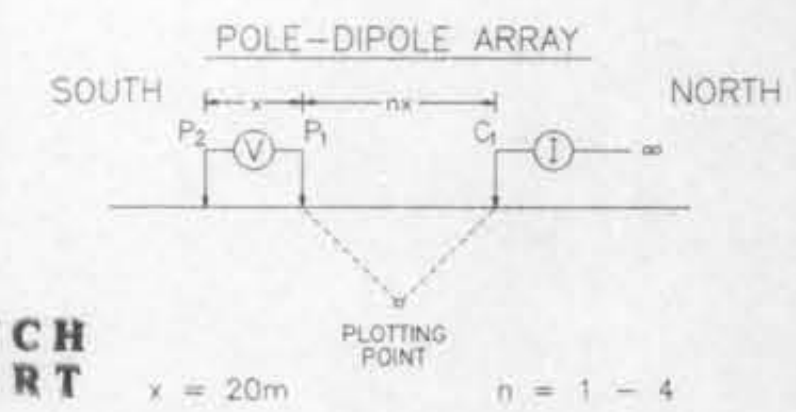


QPX MINERALS INC.

BONNEAU CLAIMS

VERNON M.D. B.C.

LINE: L49+75E



GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,350

CURRENT ELECTRODE C_1 NORTH
OF POTENTIAL DIPOLE P_1P_2

SURFACE PROJECTION
OF ANOMALOUS ZONES

- DEFINITE
- PROBABLE
- POSSIBLE
- AT DEPTH

SCALE 1 : 1000

CONTOUR INTERVALS
APP. CHARGEABILITY : 10.0 (msec)
APP. RESISTIVITY : 50 (ohm-m)

DATE SURVEYED: August 22, 1988
Tx: Huntec Mk2 Model 7500
Rx: Huntec Mk4

FIG. 15 PLAN 631



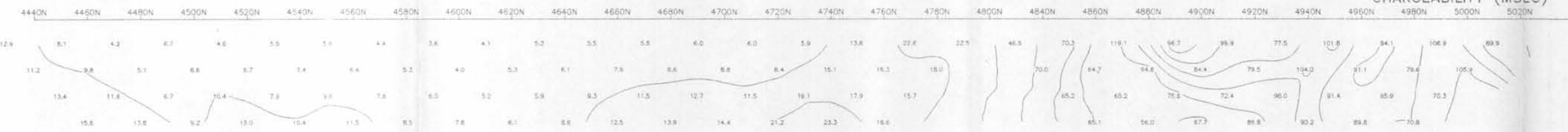
INDUCED POLARIZATION SURVEY

DRAWING NUMBER : 88278-3

RESISTIVITY (OHM-M)



CHARGEABILITY (MSEC)

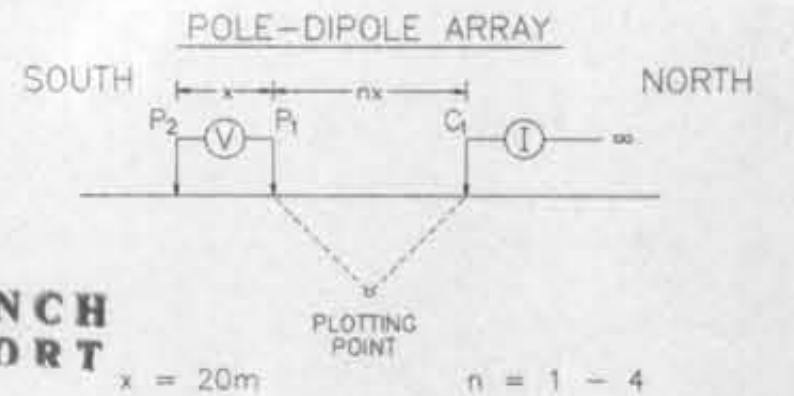


QPX MINERALS INC.

BONNEAU CLAIMS

VERNON M.D. B.C.

LINE: L50+25E



GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,350
CURRENT ELECTRODE C₁ NORTH
OF POTENTIAL DIPOLE P₁P₂
SURFACE PROJECTION
OF ANOMALOUS ZONES

- DEFINITE: [Solid black bar]
- PROBABLE: [Dashed black bar]
- POSSIBLE: [Hatched black bar]
- AT DEPTH: [Dotted black bar]

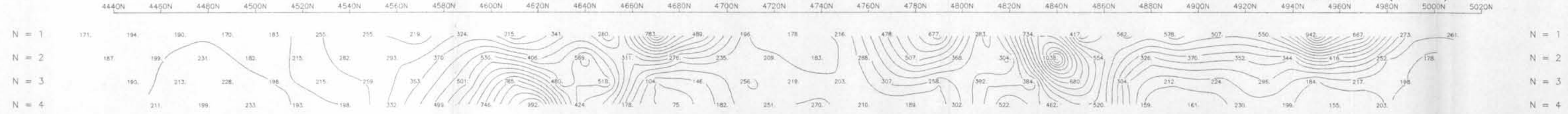
SCALE 1 : 1000

CONTOUR INTERVALS
APP.CHARGEABILITY : 5.0 (msec)
APP.RESISTIVITY : 50 (ohm-m)
DATE SURVEYED: August 22, 1988
Tx: Huntec Mk2 Model 7500
Rx: Huntec Mk4

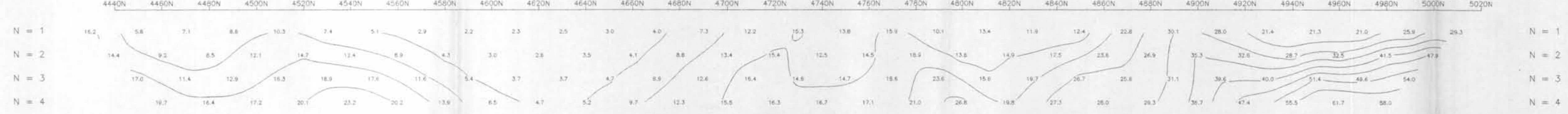
FIG. 16 PLAN 632

**LLOYD GEOPHYSICS
LIMITED**
INDUCED POLARIZATION SURVEY
DRAWING NUMBER : 88278-4

RESISTIVITY (OHM-M)



CHARGEABILITY (MSEC)

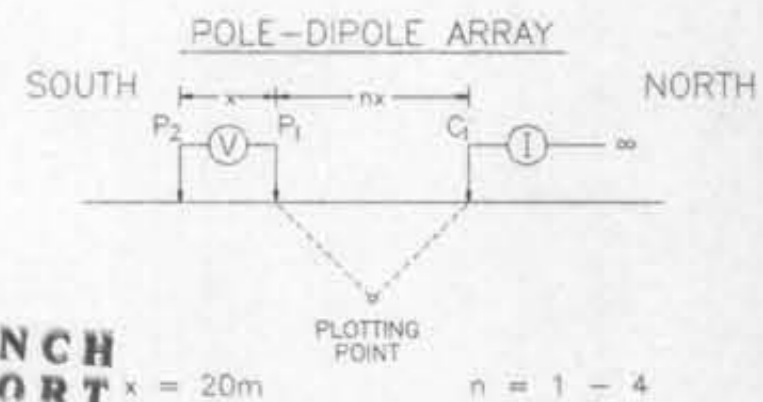


QPX MINERALS INC.

BONNEAU CLAIMS

VERNON M.D. B.C.

LINE: L50+75E



GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,350

CURRENT ELECTRODE C₁ NORTH
OF POTENTIAL DIPOLE P₁P₂

SURFACE PROJECTION
OF ANOMALOUS ZONES

- DEFINITE
- PROBABLE
- POSSIBLE
- AT DEPTH

SCALE 1 : 1000

CONTOUR INTERVALS

APP.CHARGEABILITY : 2.5 (msec)

APP.RESISTIVITY : 100 (ohm-m)

DATE SURVEYED: August 23, 1988

Tx: Huntec Mk2 Model 7500

Rx: Huntec Mk4

FIG. 17

PLAN 633

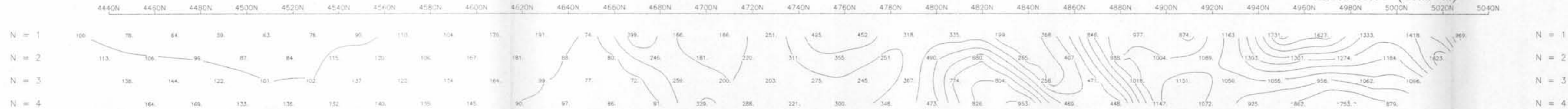


LLOYD GEOPHYSICS
LIMITED

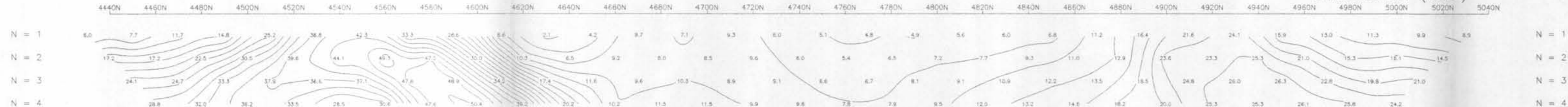
INDUCED POLARIZATION SURVEY

DRAWING NUMBER : 88278-5

RESISTIVITY (OHM-M)



CHARGEABILITY (MSEC)

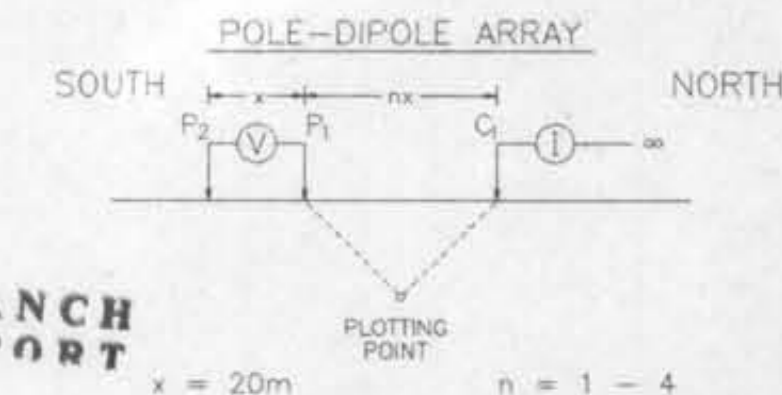


QPX MINERALS INC.

BONNEAU CLAIMS

VERNON M.D. B.C.

LINE: L51+25E



GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,350

CURRENT ELECTRODE C₁ NORTH
OF POTENTIAL DIPOLE P₁P₂

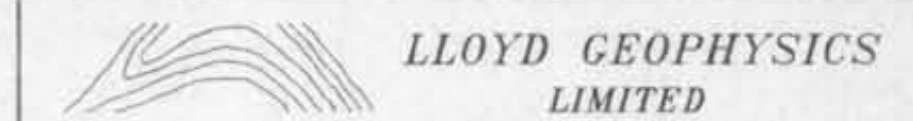
SURFACE PROJECTION
OF ANOMALOUS ZONES

- DEFINITE
- PROBABLE
- POSSIBLE
- AT DEPTH

SCALE 1 : 1000

CONTOUR INTERVALS
APP.CHARGEABILITY : 2.0 (msec)
APP.RESISTIVITY : 100 (ohm-m)
DATE SURVEYED: August 23, 1988
Tx: Hunttec Mk2 Model 7500
Rx: Hunttec Mk4

FIG. 18 PLAN 634

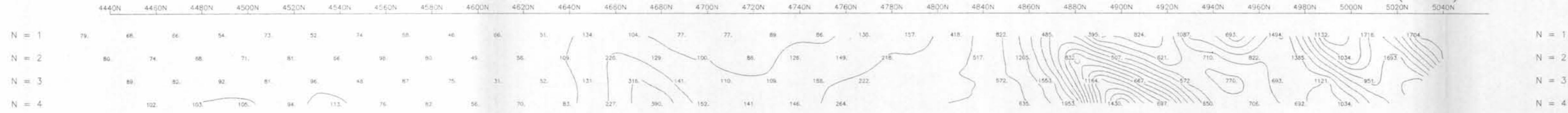


LLOYD GEOPHYSICS
LIMITED

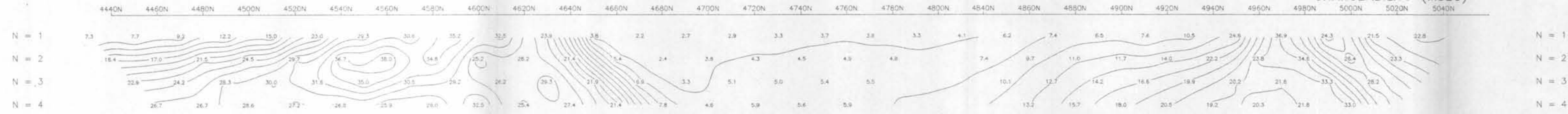
INDUCED POLARIZATION SURVEY

DRAWING NUMBER : 88278-6

RESISTIVITY (OHM-M)



CHARGEABILITY (MSEC)

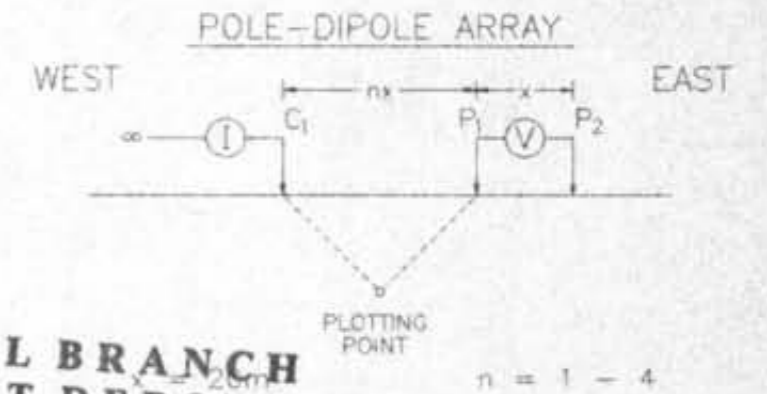


QPX MINERALS INC.

BONNEAU CLAIMS

VERNON M.D. B.C.

LINE: 49+25N



GEOLOGICAL BRANCH
ASSESSMENT REPORT

CURRENT ELECTRODE C_1 WEST
OF POTENTIAL DIPOLE P_1P_2

18,350

SURFACE PROJECTION
OF ANOMALOUS ZONES

- DEFINITE
- PROBABLE
- POSSIBLE
- AT DEPTH

SCALE 1 : 1000

CONTOUR INTERVALS

APP. CHARGEABILITY : 10.0 (msec)

APP. RESISTIVITY : 100 (ohm-m)

DATE SURVEYED: Oct 18, 1988

Tx: Huntec Mk2 Model 7500

Rx: Huntec Mk4

FIG. 19

PLAN 635



LLOYD GEOPHYSICS
LIMITED

INDUCED POLARIZATION SURVEY

DRAWING NUMBER : 88278-7

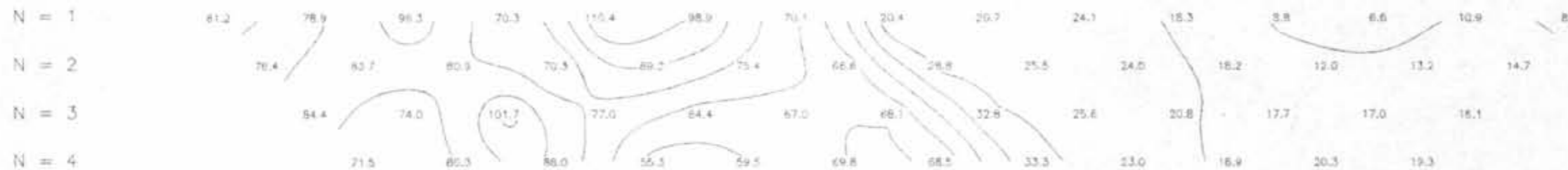
RESISTIVITY (OHM-M)

4880E 4900E 4920E 4940E 4960E 4980E 5000E 5020E 5040E 5060E 5080E 5100E 5120E 5140E 5160E



CHARGEABILITY (MSEC)

4880E 4900E 4920E 4940E 4960E 4980E 5000E 5020E 5040E 5060E 5080E 5100E 5120E 5140E 5160E



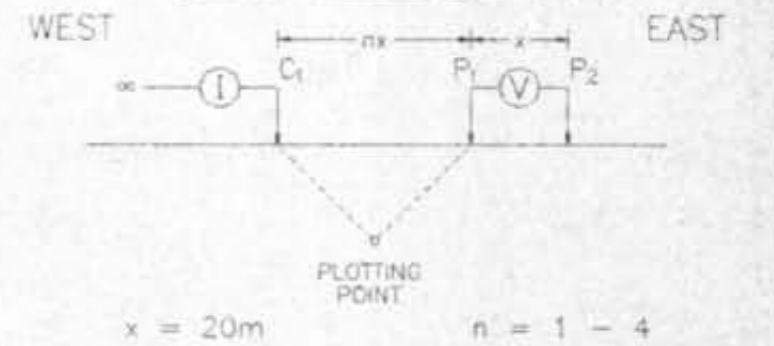
QPX MINERALS INC.

BONNEAU CLAIMS

VERNON M.D. B.C.

LINE: 48+50N

POLE-DIPOLE ARRAY



SURFACE PROJECTION OF ANOMALOUS ZONES

- DEFINITE
- PROBABLE
- POSSIBLE
- AT DEPTH

SCALE: 1 : 1000

CONTOUR INTERVALS

APP CHARGEABILITY : 10.0 (msec)

APP RESISTIVITY : 50 (ohm-m)

DATE SURVEYED: Oct 18, 1988

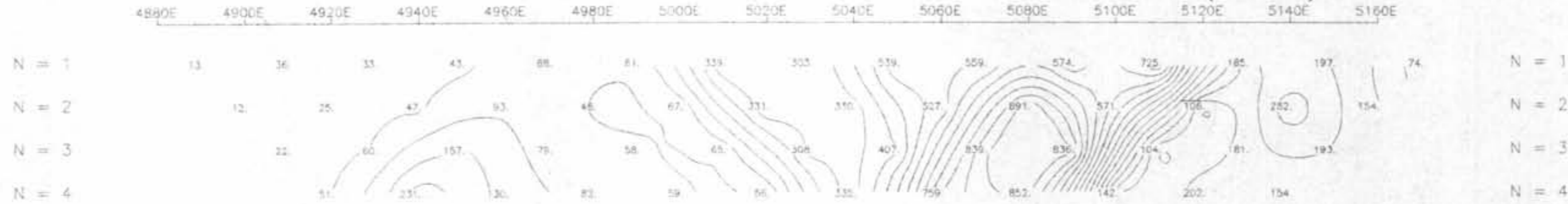
Tx: Huntec Mk2 Model 7500

Rx: Huntec Mk4

FIG. 20

PLAN 636

RESISTIVITY (OHM-M)



CHARGEABILITY (MSEC)



LLOYD GEOPHYSICS
LIMITED

INDUCED POLARIZATION SURVEY

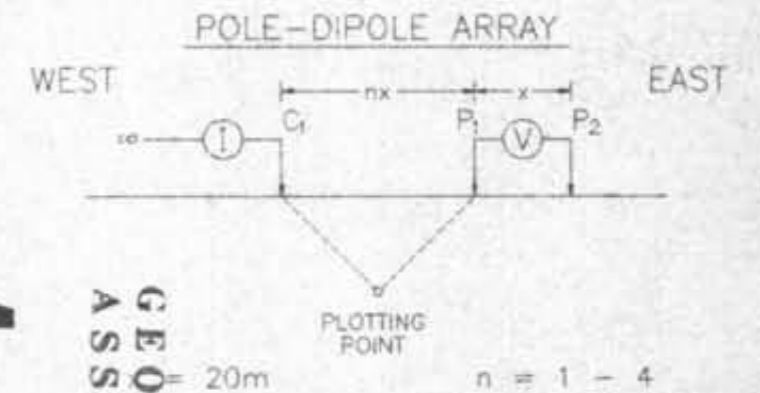
DRAWING NUMBER : 88278-8

QPX MINERALS INC.

BONNEAU CLAIMS

VERNON M.D. B.C.

LINE: 48+00N



GEOLOGICAL BRANCH ASSESSMENT REPORT

CURRENT ELECTRODE C_1 WEST OF POTENTIAL DIPOLE PP_2

SURFACE PROJECTION OF ANOMALOUS ZONES

- DEFINITE
- PROBABLE
- POSSIBLE
- AT DEPTH

SCALE 1 : 1000

CONTOUR INTERVALS
 APP. CHARGEABILITY : 5.0 (msec)
 APP. RESISTIVITY : 50 (ohm-m)

DATE SURVEYED: Oct 17, 1988

Tx: Hunttec Mk2 Model 7500

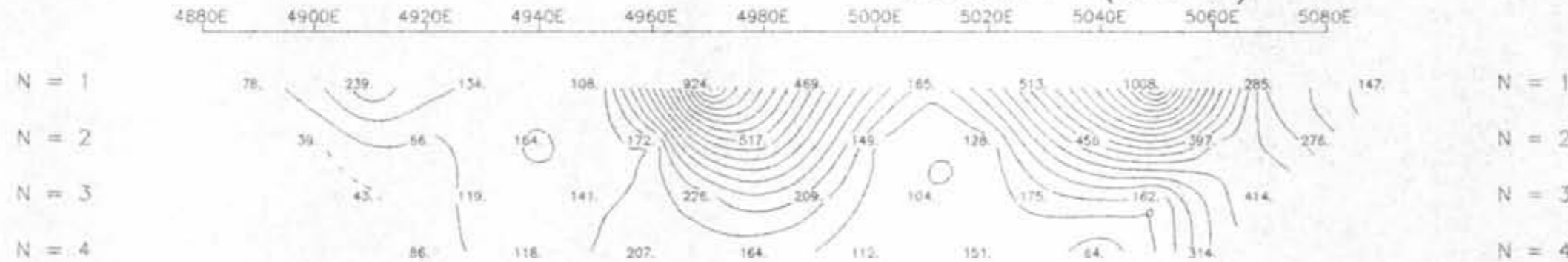
Rx: Hunttec Mk4

FIG. 21

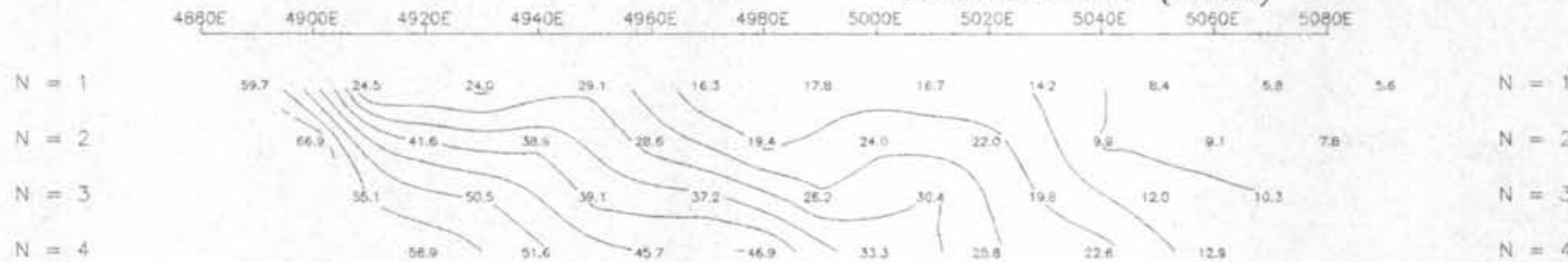
PLAN 637

18,350

RESISTIVITY (OHM-M)



CHARGEABILITY (MSEC)



LLOYD GEOPHYSICS LIMITED

INDUCED POLARIZATION SURVEY

DRAWING NUMBER : 88278-9

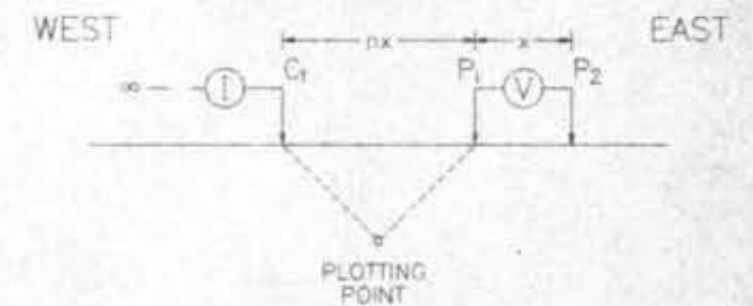
QPX MINERALS INC.

BONNEAU CLAIMS

VERNON M.D. B.C.

LINE: 47+00N

POLE-DIPOLE ARRAY



$x = 20m$ $n = 4$

CURRENT ELECTRODE C_1 WEST OF POTENTIAL DIPOLE P_1P_2

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE PROBABLY POSSIBLE AT DEPTH

SCALE 1 : 1000

CONTOUR INTERVALS

APP.CHARGEABILITY : 1.0 (msec)

APP.RESISTIVITY : 50 (ohm-m)

DATE SURVEYED: Oct 17, 1988

Tx: Hunttec Mk2 Model 7⁵⁰

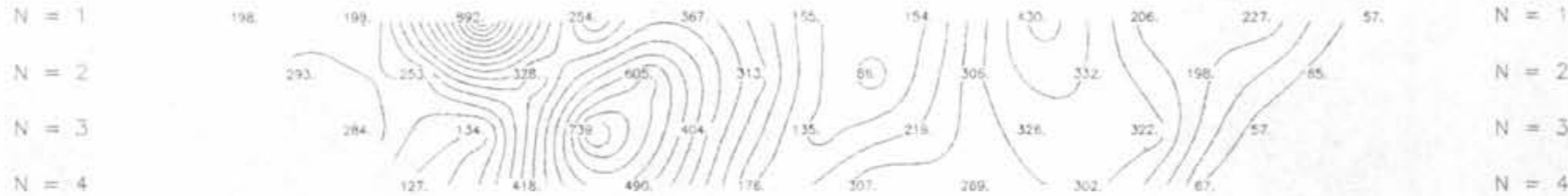
Rx: Hunttec Mk4

FIG. 22

PLAN 638

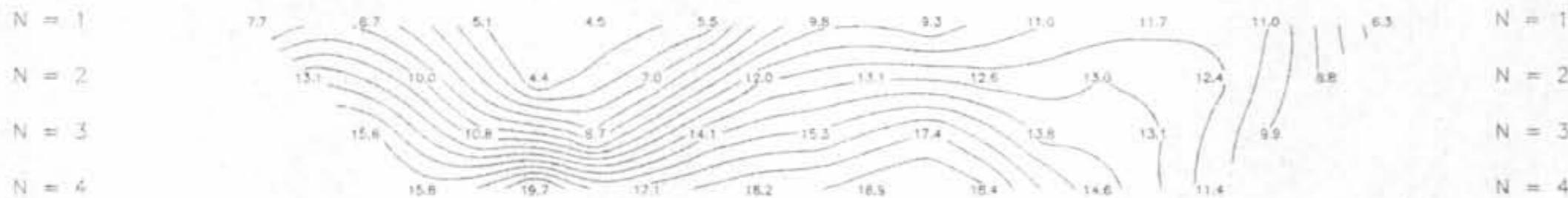
RESISTIVITY (OHM-M)

4880E 4900E 4920E 4940E 4960E 4980E 5000E 5020E 5040E 5060E 5080E



CHARGEABILITY (MSEC)

4880E 4900E 4920E 4940E 4960E 4980E 5000E 5020E 5040E 5060E 5080E



GEOLOGICAL BRANCH ASSESSMENT REPORT

18,350



LLOYD GEOPHYSICS LIMITED

INDUCED POLARIZATION SURVEY

DRAWING NUMBER : 88278-10