

LIBERTY GOLD CORP.
GEOPHYSICAL AND GEOCHEMICAL REPORT ON A
INDUCED POLARIZATION AND SOIL GEOCHEMICAL SURVEY
ON THE
TIM, TIM 1 & TIM 2 CLAIMS
CLINTON MINING DIVISION
NTS 92 P/14E
LATITUDE 51 56'N LONGITUDE 121 15'W
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GEOLOGICAL BRANCH
ASSESSMENT REPORT

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Part 1 of 2

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INTRODUCTION:

During the summer of 1989 White Geophysical Inc. conducted a program of soil sampling over the Tim claims near Lac La Hache B.C.. The Samples were analyzed in the early fall and a program of induced polarization surveying was conducted by Action Mine Services Inc. on the primary targets as defined by the geochemical survey results.

In January of 1990 White Geophysical Inc. was commissioned by Liberty Gold Corp. to compile, plot and analyze the geophysical and geochemical data. This report is the culmination of that project which has defined a large region as extremely favorable to copper-gold mineralization.

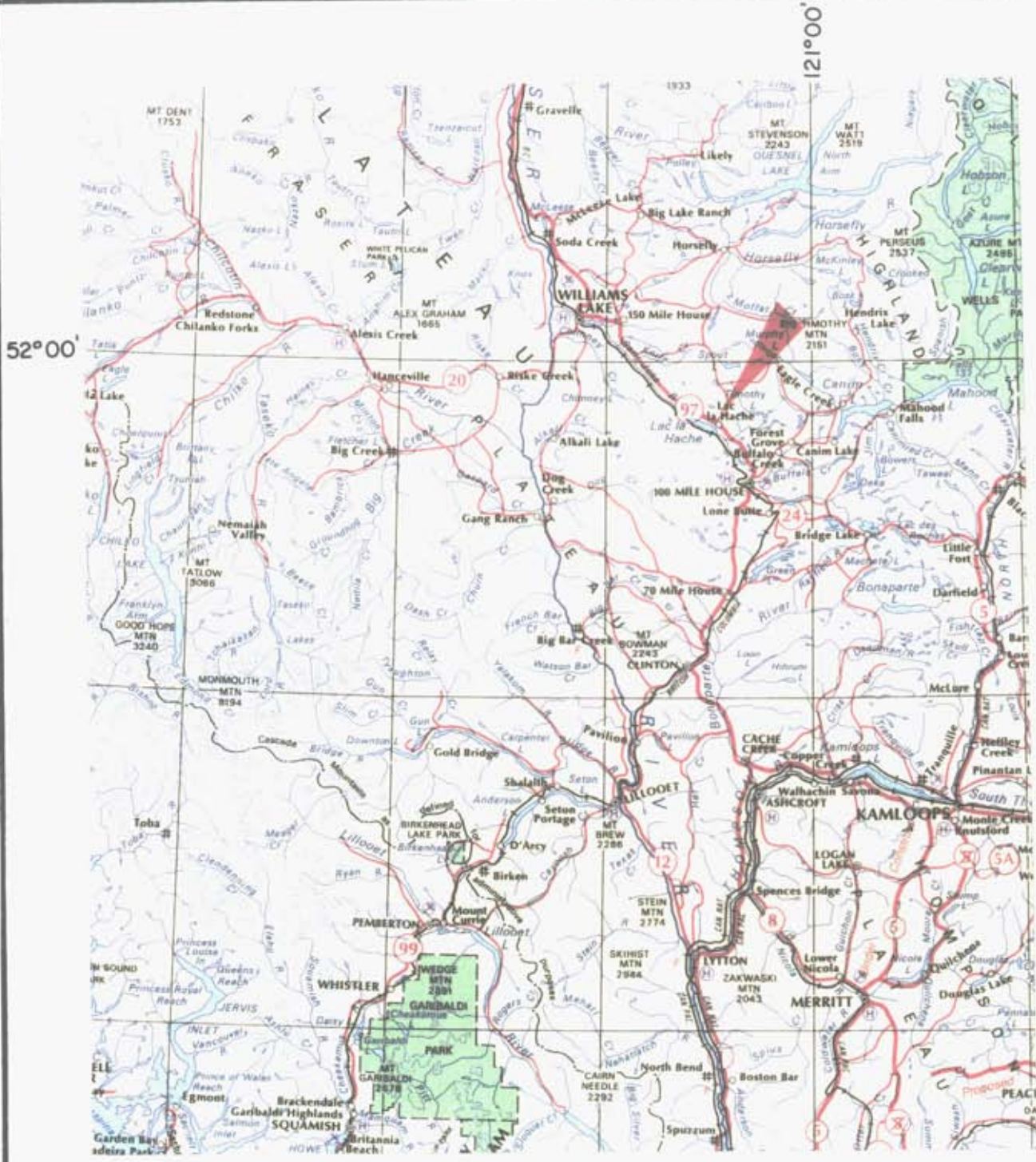
PROPERTY:

The Tim, Tim 1 and Tim 2 claims are described in the table below and illustrated in Figure 2.

Claim Name	Units	Record No.	Record Date
Tim	10	363	August 2, 1979
Tim 1	18	677	April 28, 1980
Tim 2	20	678	April 28, 1980

LOCATION AND ACCESS:

The Tim claims area is located approximately 21 kilometres northeast of Lac La Hache in the Cariboo region of British Columbia. The Timothy Mountain road, a good gravel road, approaches the claims directly from the Lac La Hache townsite. This road, which is maintain year round, leads



LIBERTY GOLD CORP.
TIM CLAIMS
LOCATION MAP

SCALE = 1 : 2 000 000

N.T.S. 92P/14W

FIG. 1

after approximately 21 kilometres, to a right fork onto a secondary logging road, which gives access to the property.

Access can also be had via the Spout Lake and Murphy Lake roads to Rail Lake. At Rail Lake the 1700 logging road turns eastward which after approximately 18 kilometres gives access to the northern portion of the property. A four wheel drive vehicle is required to traverse the roads on the property. The property is located at Latitude 51 56'N Longitude 121 15'W and is covered by N.T.S. sheet 92P/14W

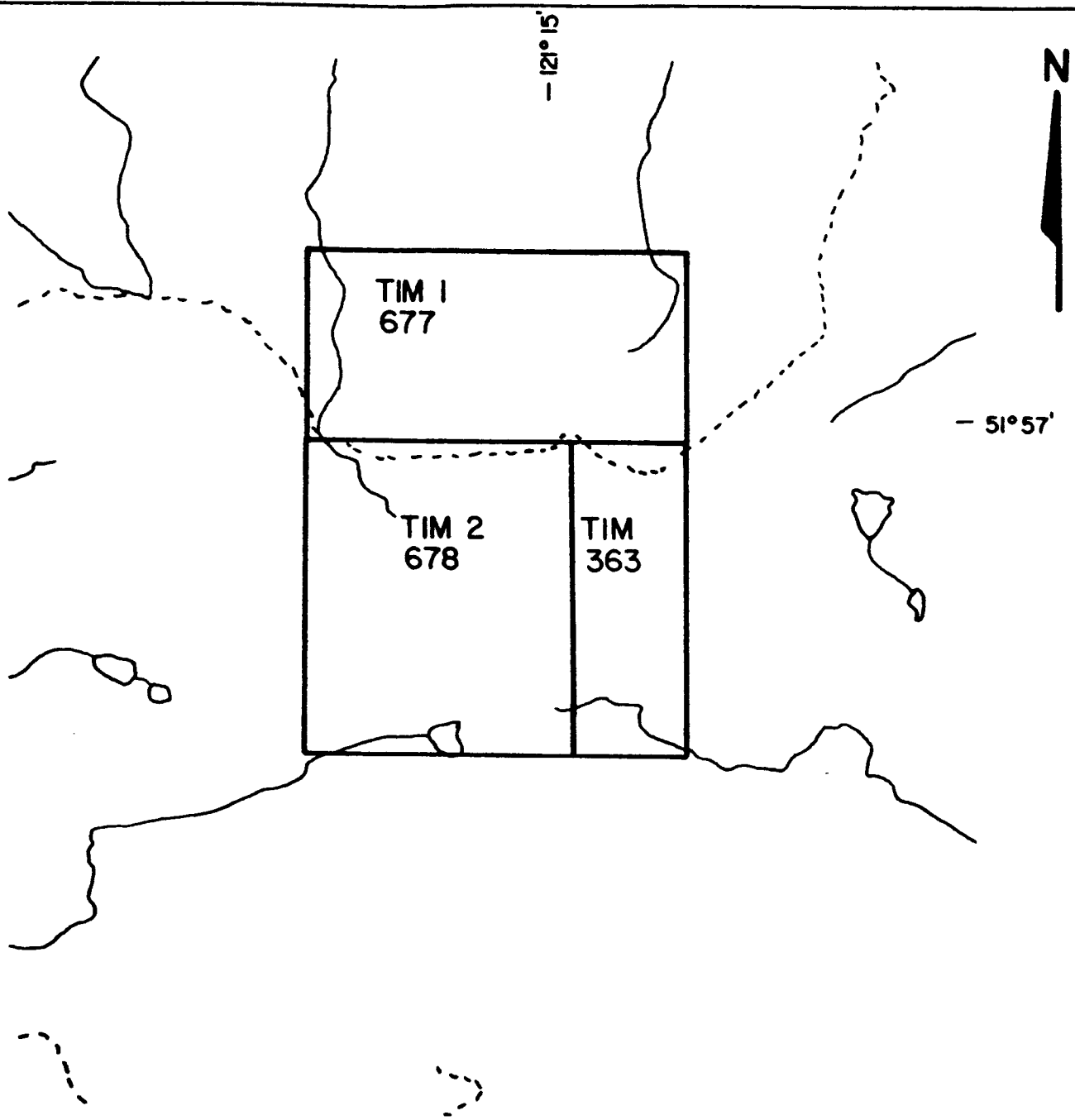
SURVEY GRID:

The survey grid was established in 1988 to accurately correlate the existing work on the property and to conduct a blanket total field magnetics and VLF-EM survey. The north-south baseline was centered on the property and 1500 metres lines turned off towards the east and the west every 100 metres. Stations were marked every 25 metres along the lines.

This entire grid was soil sampled and the central portions surveyed utilizing the induced polarization technique.

History and Previous Work:

The claims lie on the southwestern nose of a large magnetic arc which curves eastward and is some 15 kilometres in length. Geological investigation has shown this feature is sourced in magnetite rich alkalic stocks and dykes. Initial investigations in the area began in the late 60's when regional soil sampling located extensive evidence of copper mineralization.



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TIM CLAIMS

CLAIMS MAP

N.T.S. 92P/14W

SCALE = 1:50,000

FIG.2

Two principle properties were located at that time; the WC claims near Spout Lake, and the Tim Claims (1967 by Coranex).

Coranex conducted preliminary Geochemical, induced polarization and magnetometer surveys resulting in the identification of three anomalous induced polarization responses.

Asarco briefly optioned the ground from Coranex in 1970 and then Amax optioned the claims in 1972. AMAX mapped the geology of a portion of the claims including the Tim No. 1 and No. 2 showings.

The claims lapsed and then were restaked by Stallion Resources Ltd. in 1980. Stallion conducted bulldozer trenching and a limited amount of geochemical work over the southernmost induced polarization anomaly.

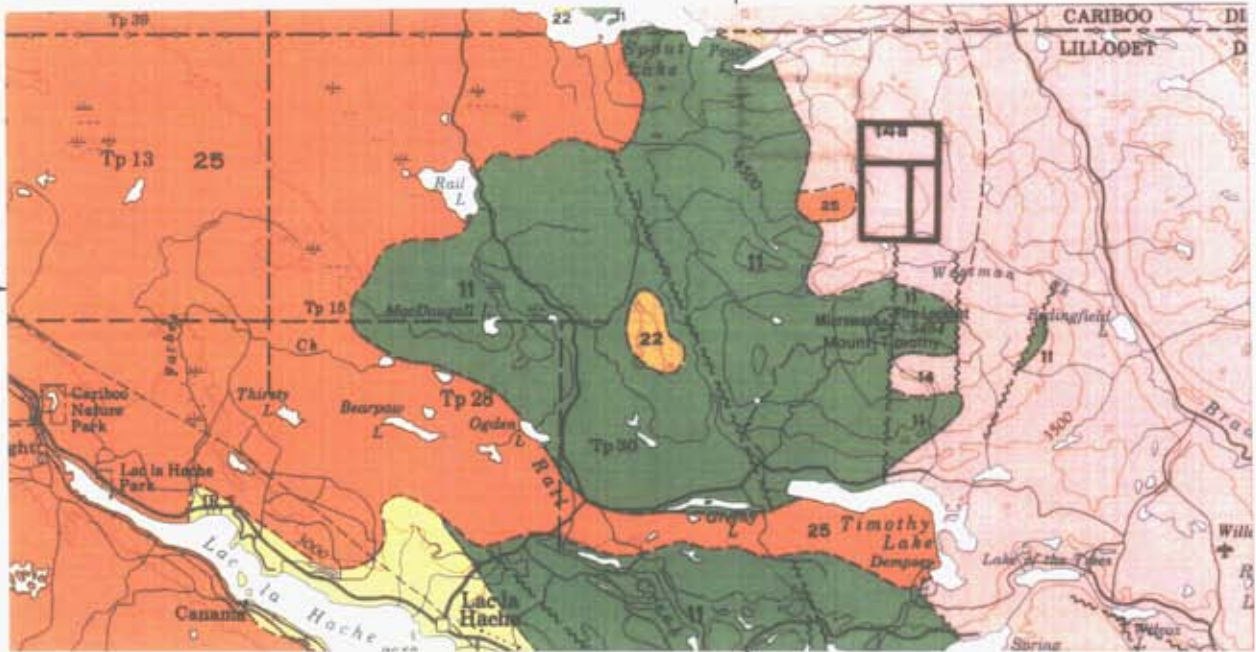
The Tim Claims were drill tested by Stallion Resources Ltd. in the fall of 1983. Five short diamond drill holes were sighted to test the Tim No. 1 showing. As reported by Stallion Resources the No. 1 hole intersected 140 feet of mineralization with a weighted average of 2.91% Cu, 0.79 oz./ton Ag and 0.02 oz./ton Au. (George Cross Newsletter No. 197, 1983). None of the core has survived to confirm the results.

R. Gale from surface showings came to the conclusion that the hole may have cut the mineralized zone at an acute angle and thus not accurately represent the true width of the mineralized zone. This will only be confirmed by further drill testing.



51° 55'

121° 20'



LEGEND

- TRASSIC OR JURASSIC**
 SILENT, OR METAMORPHIC
 14 Tephritic tholeiitic basalt, with subordinate olivite basalt
 with minor quartzite and conglomerate
 (see also 14W, 14X, 14Y, 14Z, 14AA, 14AB, 14AC, 14AD, 14AE, 14AF, 14AG, 14AH, 14AI, 14AJ, 14AK, 14AL, 14AM, 14AN, 14AO, 14AP, 14AQ, 14AR, 14AS, 14AT, 14AU, 14AV, 14AW, 14AX, 14AY, 14AZ, 14BA, 14BB, 14BC, 14BD, 14BE, 14BF, 14BG, 14BH, 14BI, 14BJ, 14BK, 14BL, 14BM, 14BN, 14BO, 14BP, 14BQ, 14BR, 14BS, 14BT, 14BU, 14BV, 14BW, 14BX, 14BY, 14BZ, 14CA, 14CB, 14CC, 14CD, 14CE, 14CF, 14CG, 14CH, 14CI, 14CJ, 14CK, 14CL, 14CM, 14CN, 14CO, 14CP, 14CQ, 14CR, 14CS, 14CT, 14CU, 14CV, 14CW, 14CX, 14CY, 14CZ, 14DA, 14DB, 14DC, 14DD, 14DE, 14DF, 14DG, 14DH, 14DI, 14DJ, 14DK, 14DL, 14DM, 14DN, 14DO, 14DP, 14DQ, 14DR, 14DS, 14DT, 14DU, 14DV, 14DW, 14DX, 14DY, 14DZ, 14EA, 14EB, 14EC, 14ED, 14EE, 14EF, 14EG, 14EH, 14EI, 14EJ, 14EK, 14EL, 14EM, 14EN, 14EO, 14EP, 14EQ, 14ER, 14ES, 14ET, 14EU, 14EV, 14EW, 14EX, 14EY, 14EZ, 14FA, 14FB, 14FC, 14FD, 14FE, 14FF, 14FG, 14FH, 14FI, 14FJ, 14FK, 14FL, 14FM, 14FN, 14FO, 14FP, 14FQ, 14FR, 14FS, 14FT, 14FU, 14FV, 14FW, 14FX, 14FY, 14FZ, 14GA, 14GB, 14GC, 14GD, 14GE, 14GF, 14GG, 14GH, 14GI, 14GJ, 14GK, 14GL, 14GM, 14GN, 14GO, 14GP, 14GQ, 14GR, 14GS, 14GT, 14GU, 14GV, 14GW, 14GX, 14GY, 14GZ, 14HA, 14HB, 14HC, 14HD, 14HE, 14HF, 14HG, 14HH, 14HI, 14HJ, 14HK, 14HL, 14HM, 14HN, 14HO, 14HP, 14HQ, 14HR, 14HS, 14HT, 14HU, 14HV, 14HW, 14HX, 14HY, 14HZ, 14IA, 14IB, 14IC, 14ID, 14IE, 14IF, 14IG, 14IH, 14II, 14IJ, 14IK, 14IL, 14IM, 14IN, 14IO, 14IP, 14IQ, 14IR, 14IS, 14IT, 14IU, 14IV, 14IW, 14IX, 14IY, 14IZ, 14JA, 14JB, 14JC, 14JD, 14JE, 14JF, 14JG, 14JH, 14JI, 14JJ, 14JK, 14JL, 14JM, 14JN, 14JO, 14JP, 14JQ, 14JR, 14JS, 14JT, 14JU, 14JV, 14JW, 14JX, 14JY, 14JZ, 14KA, 14KB, 14KC, 14KD, 14KE, 14KF, 14KG, 14KH, 14KI, 14KJ, 14KK, 14KL, 14KM, 14KN, 14KO, 14KP, 14KQ, 14KR, 14KS, 14KT, 14KU, 14KV, 14KW, 14KX, 14KY, 14KZ, 14LA, 14LB, 14LC, 14LD, 14LE, 14LF, 14LG, 14LH, 14LI, 14LJ, 14LK, 14LL, 14LM, 14LN, 14LO, 14LP, 14LQ, 14LR, 14LS, 14LT, 14LU, 14LV, 14LW, 14LX, 14LY, 14LZ, 14MA, 14MB, 14MC, 14MD, 14ME, 14MF, 14MG, 14MH, 14MI, 14MJ, 14MK, 14ML, 14MN, 14MO, 14MP, 14MQ, 14MR, 14MS, 14MT, 14MU, 14MV, 14MW, 14MX, 14MY, 14MZ, 14NA, 14NB, 14NC, 14ND, 14NE, 14NF, 14NG, 14NH, 14NI, 14NJ, 14NK, 14NL, 14NM, 14NN, 14NO, 14NP, 14NQ, 14NR, 14NS, 14NT, 14NU, 14NV, 14NW, 14NX, 14NY, 14NZ, 14OA, 14OB, 14OC, 14OD, 14OE, 14OF, 14OG, 14OH, 14OI, 14OJ, 14OK, 14OL, 14OM, 14ON, 14OO, 14OP, 14OQ, 14OR, 14OS, 14OT, 14OU, 14OV, 14OW, 14OX, 14OY, 14OZ, 14PA, 14PB, 14PC, 14PD, 14PE, 14PF, 14PG, 14PH, 14PI, 14PJ, 14PK, 14PL, 14PM, 14PN, 14PO, 14PP, 14PQ, 14PR, 14PS, 14PT, 14PU, 14PV, 14PW, 14PX, 14PY, 14PZ, 14QA, 14QB, 14QC, 14QD, 14QE, 14QF, 14QG, 14QH, 14QI, 14QJ, 14QK, 14QL, 14QM, 14QN, 14QO, 14QP, 14QQ, 14QR, 14QS, 14QT, 14QU, 14QV, 14QW, 14QX, 14QY, 14QZ, 14RA, 14RB, 14RC, 14RD, 14RE, 14RF, 14RG, 14RH, 14RI, 14RJ, 14RK, 14RL, 14RM, 14RN, 14RO, 14RP, 14RQ, 14RR, 14RS, 14RT, 14RU, 14RV, 14RW, 14RX, 14RY, 14RZ, 14SA, 14SB, 14SC, 14SD, 14SE, 14SF, 14SG, 14SH, 14SI, 14SJ, 14SK, 14SL, 14SM, 14SN, 14SO, 14SP, 14SQ, 14SR, 14SS, 14ST, 14SU, 14SV, 14SW, 14SX, 14SY, 14SZ, 14TA, 14TB, 14TC, 14TD, 14TE, 14TF, 14TG, 14TH, 14TI, 14TJ, 14TK, 14TL, 14TM, 14TN, 14TO, 14TP, 14TQ, 14TR, 14TS, 14TT, 14TU, 14TV, 14TW, 14TX, 14TY, 14TZ, 14UA, 14UB, 14UC, 14UD, 14UE, 14UF, 14UG, 14UH, 14UI, 14UJ, 14UK, 14UL, 14UM, 14UN, 14UO, 14UP, 14UQ, 14UR, 14US, 14UT, 14UU, 14UV, 14UW, 14UX, 14UY, 14UZ, 14VA, 14VB, 14VC, 14VD, 14VE, 14VF, 14VG, 14VH, 14VI, 14VJ, 14VK, 14VL, 14VM, 14VN, 14VO, 14VP, 14VQ, 14VR, 14VS, 14VT, 14VU, 14VV, 14VW, 14VX, 14VY, 14VZ, 14WA, 14WB, 14WC, 14WD, 14WE, 14WF, 14WG, 14WH, 14WI, 14WJ, 14WK, 14WL, 14WM, 14WN, 14WO, 14WP, 14WQ, 14WR, 14WS, 14WT, 14WU, 14WV, 14WW, 14WX, 14WY, 14WZ, 14XA, 14XB, 14XC, 14XD, 14XE, 14XF, 14XG, 14XH, 14XI, 14XJ, 14XK, 14XL, 14XM, 14XN, 14XO, 14XP, 14XQ, 14XR, 14XS, 14XT, 14XU, 14XV, 14XW, 14XX, 14XY, 14XZ, 14YA, 14YB, 14YC, 14YD, 14YE, 14YF, 14YG, 14YH, 14YI, 14YJ, 14YK, 14YL, 14YM, 14YN, 14YO, 14YP, 14YQ, 14YR, 14YS, 14YT, 14YU, 14YV, 14YW, 14YX, 14YY, 14YZ, 14ZA, 14ZB, 14ZC, 14ZD, 14ZE, 14ZF, 14ZG, 14ZH, 14ZI, 14ZJ, 14ZK, 14ZL, 14ZM, 14ZN, 14ZO, 14ZP, 14ZQ, 14ZR, 14ZS, 14ZT, 14ZU, 14ZV, 14ZW, 14ZX, 14ZY, 14ZZ

- Rock outline
 Geological boundary (approximate)
 Bedding (top unknown) (inclined, vertical)
 Bedding (as shown on cross sections)
 Schistosity, cleavage (horizontal, inclined, vertical)
 Foliation (as shown on cross sections)
 Lineation (horizontal, inclined)
 Fault (approximate, assumed)
 Thrust fault (approximate, assumed)
 Anticline (defined, approximate)
 Syncline (defined, approximate)
 Fossil locality
 Mineral occurrence



Geology by R. B. Campbell and H. W. Tupper 1964, 1965
 In accordance Method 363 by R. B. Campbell and H. W. Tupper
 Geological cartography by the Geological Survey of Canada

Base map compiled by the Department of Lands, Forests and Water Resources, British Columbia, 1966. Produced by the Survey and Mapping Branch, 1988

Magnetic declination 1970 varies from 22° 21' easterly at centre of east edge to 22° 30' easterly at centre of west edge. Mean annual change decreasing 3.2'

MINERALS

Cool	Ceol	Molybdenite	Mo
Copper	Cu	Silver	Ag
Diatomite	diat	Volcanic ash	ash
Gold	Au	Zinc	Zn
Lead	Pb		

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 TIM CLAIMS
 REGIONAL GEOLOGY
 N.T.S. 92P/14W

Scale 1:250000

FIG. 3

Hole No. 5 reportedly contained 20 feet of mineralization grading 1.55% Cu 0.40 oz./ton Ag and .01 oz./ton Au.

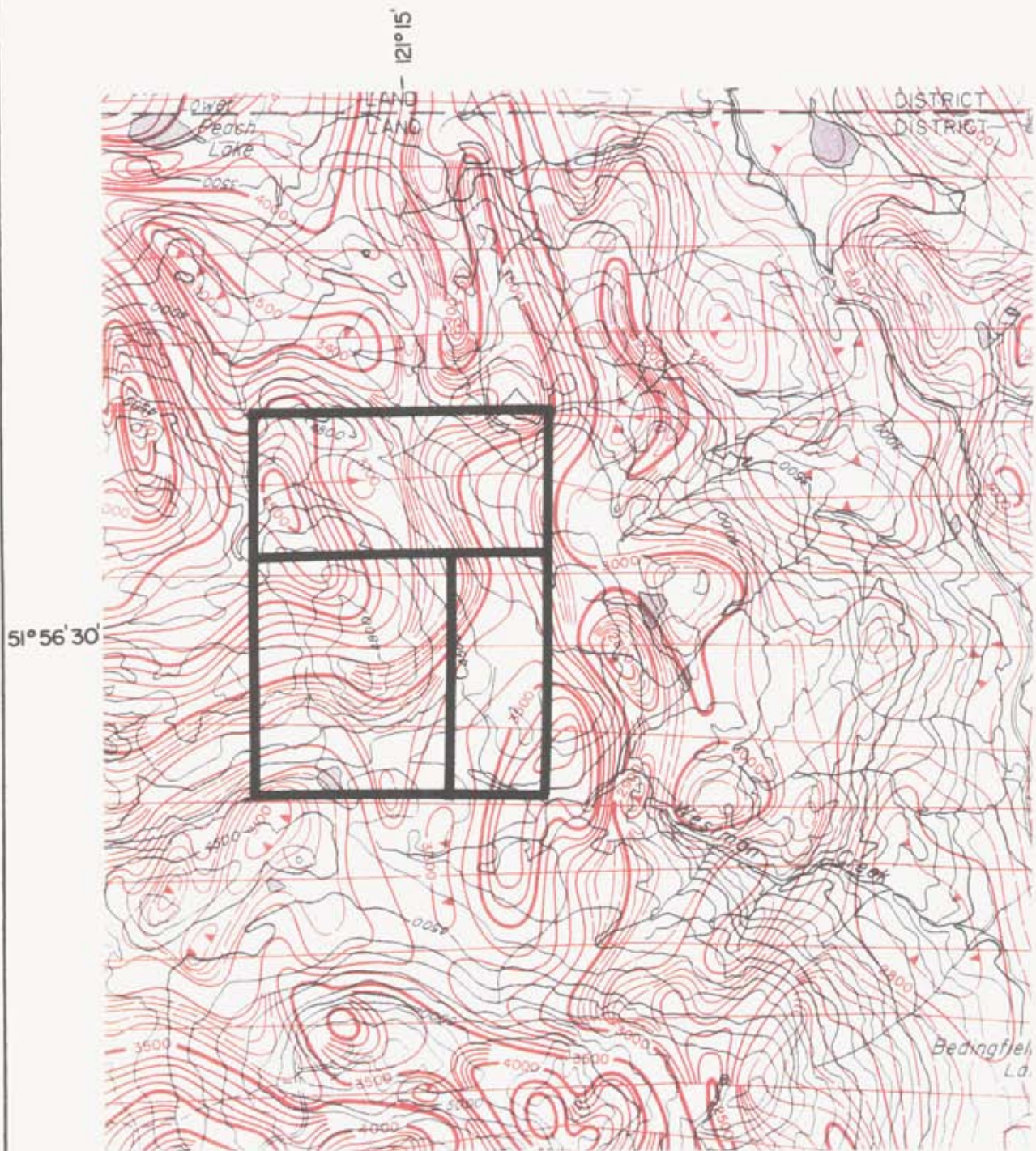
Liberty Gold Corp. optioned the Claims from Stallion Resources Ltd. In the summer of 1988 a new grid was established over the entire property eastwest lines being established on 100 metre centers with 25 metre station. Magnetometer and VLF-EM surveys were conducted over the entire property.

In the summer and fall of 1988 R Gale, P.Eng using historical records and visiting the property conducted a thorough compilation of the 20 years of data available on the property and recommended further exploration. The first phase of this exploration work consisted of a blanket soil geochemical survey. The second phase of work was an induced polarization survey over the strongest geochemical anomalies. This work is the basis for this report.

REGIONAL GEOLOGY:

The regional geology of the area is depicted by G.S.C. Map 1278A, Bonaparte Lake Map Area, 1972. The Tim claims are situated near the eastern margin of the Intermontaine Belt. This belt is composed of a northwesterly trending assemblage of Upper Triassic - Lower Jurassic volcanic rocks belonging to the Nicola, Takla and Stuhini Groups and is often referred to as the Quesnel Trough.

Nicola volcanic rocks of Triassic age underlay the property. They have been mapped as augite, andesite flows and breccia;



LIBERTY GOLD CORP.

TIM CLAIMS

AIRBORNE MAGNETIC MAP

N.T.S. 92P/14W

SCALE = 1:63 360

FIG. 4

tuff, argillite, greywacke and grey limestone. The Takomkane granitic batholith of Triassic-Jurassic age lies to the east of this sequence of rocks. An extensive cover of Upper Tertiary (Miocene-Pliocene) basaltic lavas of the plateau type lie to the west.

The eastern edge of the Intermontane Belt contains a linear band of alkalic stocks composed of diorite, monzonite and syenite. These stocks intrude the volcanic strata and commonly alter the country rocks. They are hosts for several alkalic suite porphyry mineral deposits such as Copper Mountain, Afton, Cariboo-Bell and the recently discovered QR gold mine. The QR discovery is reported to contain some 6500 kilograms of gold reserves.

Property Geology (summarized from R.Gale 1988 & H.Jones 1990)

Rock Types

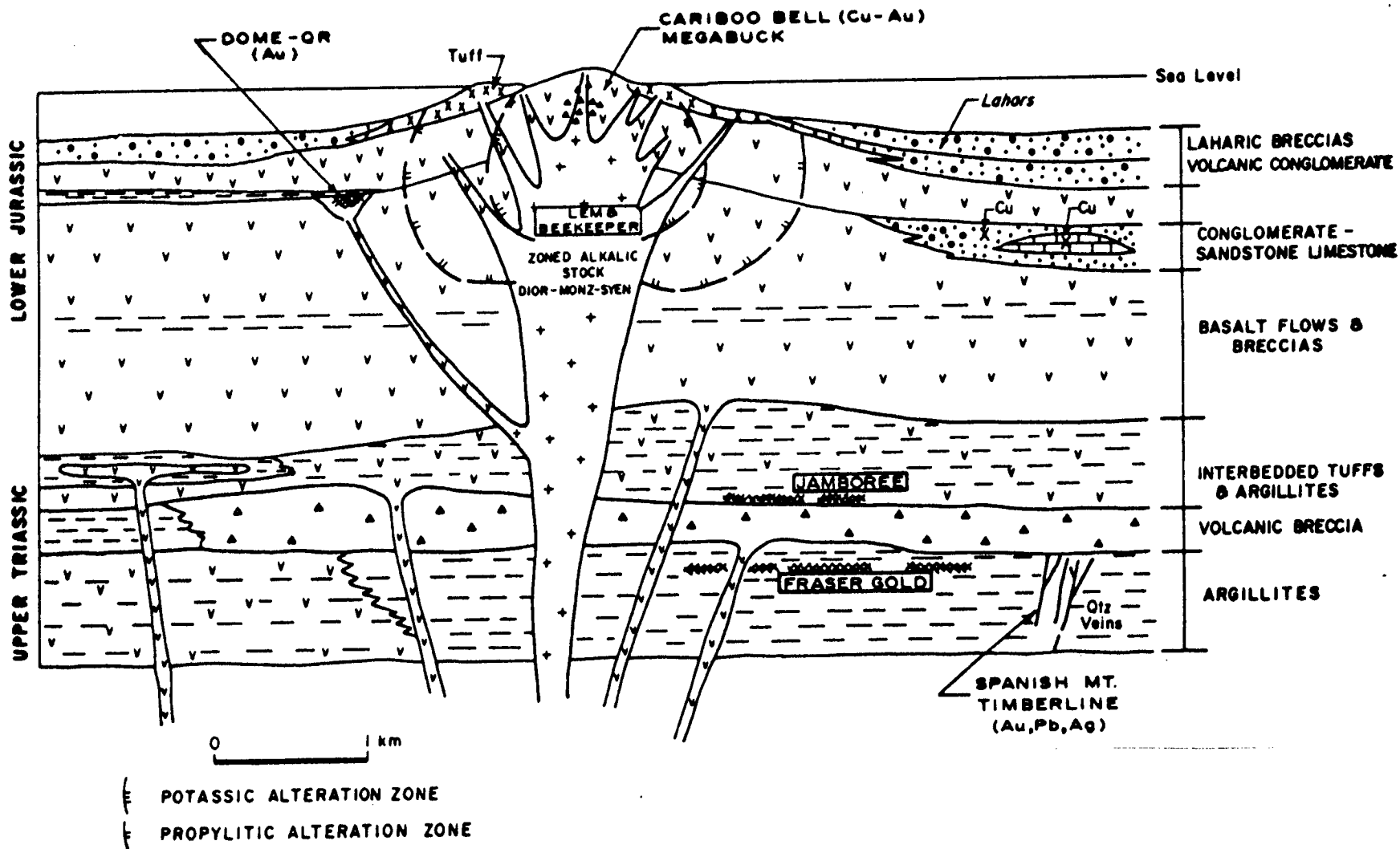
1. Triassic-Jurassic Volcanic Rocks

The oldest rocks in the area are Triassic-Jurassic andesitic to basaltic flows and tuffs which are typical of the type of rocks referred to as the Nicola Group elsewhere in British Columbia.

AMAX mapped a northwest trend with a steep dip to the northeast for bedding in the volcanic rocks.

2. Syenite Breccia

The syenite breccia is a distinctive grey to white hard dense rock composed of a very fine grained ground mass surrounding



**Diagrammatic Cross-section Through the Queen's Trough Volcanic Complex,
Showing Relative Stratigraphic Positions of Known Mineral Deposits**

From Salehan and Simpson (1981)

FIG. 5

1-2 cm wide rounded fragments of white medium grained syenite porphyry. The poor exposures of the breccia contain both pyrite and chalcopyrite (Harold Jones, P.Eng Jan. 24, 1990) Two outcrops of syenite breccia, mapped by AMAX are located near the center of the claims. Similar outcrops lie to the east and west of here developing an east-west trend.

3. Syenodiorite

A large mass of syenodiorite intrusive rock underlies the northwest and central parts of the claims. It appears to splay into a number of southerly trending dykes towards the southern and eastern margin of the area. These dykes are younger than the syenite breccia, as evidenced by their cross cutting relationships.

4. Tertiary Volcanic Rocks

Basaltic flows outcrop near the northwest side of the claims. They are erosional remnants of what had been a widespread layer of very young rocks capping the whole area.

Alteration and Mineralization:

Alteration consists mostly of epidote, K-felspar, quartz and amphibole occurring along fractures and shears on or near volcanic - intrusive boundaries. The alteration is often accompanied by veins and disseminations of chalcopyrite, pyrite, magnetite and in some cases molybdenite and sheelite.

Tim No. 1 Showing

The Tim No. 1 showing occurs at the contact of a north-east striking synodiorite dike with volcanic rocks and also at a northwestern trending contact of syenite breccia. Epidote, K-felspar and amphibole alteration exists along the northeast trending fracture surfaces. Mineralization consists of patches of disseminated chalcopyrite.

Tim No. 2 showing

The Tim No. 2 Showing is located on the western side of a northerly trending synodiorite dike. The western contact of the dike is marked by a northerly trending 5-10 metre deep gully formed on a shear zone. Mineralization consists of chalcopyrite and molybdenite as narrow fracture-filled veinlets in fresh andesite and as disseminated patches in altered andesite and syenodiorite. Sampling by R.Gale 1988 at .5 metre intervals across the 5 metre trench returned .58% Cu, 332 ppm Mo, 82 ppm W and 149 ppb Au.

Tim No. 2a Showing.

A scattering of small outcrops for 200 metres northwest of the Tim No. 2 Showing leads to the Tim 2a Showing. These outcrops contain chalcopyrite as fracture filling. A trench at the Tim No. 2a showing exposes syenodiorite similar to that of the Tim No. 2 showing with weaker fracturing and sparser mineralization.

Native Copper Occurrence.

Native copper and chalcopyrite has been discovered in an area

of extensive malachite staining on a roadway between line 26S and 27S at approximately 750W. Minimal hand trenching uncovered native copper disseminated and on fracture faces in altered volcanics.

Chalcopyrite in Syenite Breccia.

Chalcopyrite and pyrite have been found contained within the Syenite Breccia on the western boundary of the Tim Claim. A sample taken on line 23S at 50 east assayed 235 ppm Cu, 100 ppm Pb, 25 ppm Mo, 42 ppm Au.

Other Sampling.

Strongly fractured andesite in a trench located at line 19S 25W assayed .1% Cu, and 29 ppb Au.

Remarks:

The above summary of mineralization on the Tim Claims clearly demonstrates that copper and precious metal mineralization occurs within the volcanics, the syenite breccia and also along the contacts between the synodiorite dykes of the same age as the synodiorite intrusive underlying the northwestern portion of the claims.

Soil Geochemistry Survey:

The soil geochemical survey was conducted during the summer months of 1989 over the existing grid which spans the whole property. This grid was established in 1988 to conduct the magnetometer and VLF-EM surveys and tie in all the existing information on the property. The soils were taken at 50

metre intervals. The sampling was done utilizing a grubhoe and the samples were placed in gausseted kraft bags. The samples were field dried. Wherever possible the samples were taken from the well developed B Horizon. In most areas of the property this horizon exits at a depth of 30-70 cm. In areas where no B horizon was found the A horizon was sampled and in swamps where nothing but organics were available no samples were taken.

The samples were analyzed by Acme Analytical Laboratories in Vancouver B.C.. A standard 32 element ICP was done and gold was analyzed for by acid leach/AA from a 10g sample.

Induced Polarization Survey:

The induced polarization survey was conducted utilizing a Hunttec MK. III receiver and a Hunttec MK IV transmitter deployed in a pole-dipole array with $a=50$ metres. Various n -spacings were used on different portions of the grid as results dictated. In area of interest $n=1,2,3$ and 4 were used. The overvoltage discharge was read with a delay of 240 milliseconds. The over voltage is normalized with the primary voltage and integrated over the time slice and thus is presented as chargeability in milliseconds. A geometric factor is computed from the electrode locations and is used to compute the apparent resistivity in ohm-metres.

Discussion of Results:

During the summer of 1989 White Geophysical Inc. was contracted by Liberty Gold Corp. to conduct a program of soil geochemical sampling on the Tim Claims near Lac La Hache B.C.. A total of 2235 samples were taken and analyzed by

standard 32 element ICP plus gold by acid leach from a 10g sample. The results of the silver copper and gold analysis have been posted and hand contoured at a scale of 1:5000. In addition to this colour representation of the following elements distributions have been included as foldouts in this report: Ag, As, Au, Co, Cu, Fe, K, Mn, Mo, P, Pb, V, Zn.

The induced polarization survey was carried out in November of 1989 and covered the central portion of the claims. This area was chosen since it encompassed the strongest geochemical anomalies and the most prominent of the known showings. A total of 36 kilometres of induced polarization work was performed 18 lines spanning lines 1100S to 2800S inclusive. All of the lines were surveyed with a minimum of 2 n-spacings with many areas being detailed with 4 n-spacings. The data is presented in pseudosection form for each of the lines and a representative sample of the chargeability data and resistivity data has been plotted as contour maps at a scale of 1:5000.

The induced polarization survey delineated two distinct anomalous zones, the northeast zone and the central zone.

The northeast zone is generally an ellipsoid with a major axis of length 1300 metres and a minor axis of length 500 metres. Within this zone are Three localized highs. The high at the north end of the zone is the strongest with chargeability anomalies in excess of 35 milliseconds. The high in the center of the zone is the weakest with chargeability readings in the order of 20-25 milliseconds. The 1983 drilling done by Diamond Resources Ltd. was positioned on the very southwest flank of this zone near the central high. It appears that the drilling just caught the

flank of this zone. The southern high is again a relatively strong response of approximately 35 milliseconds. These strong responses indicate that the rock unit should contain 5-15% sulphides.

The central zone has the characteristic signature of a steeply dipping lithological unit. The zone is 1500 metres long with a near surface response approximately 300 metres wide. The chargeability signature indicates that the zone is dipping steeply to the north. A 100 foot trench opened by Stallion Resources Ltd. on the eastern toe of this zone assayed 0.2% Cu. R Gale sampled strongly fractured andesite line 19S at 25W which returned 0.1% Cu, 29 ppb Au. Geophysics indicates that at this point the surface of strong mineralization is actually lying at least a depth of 50 metres.

The majority of the induced polarization anomalies appear to be underlain by what was originally mapped as syenite breccia vent material. The Tim No. 1 showing, the focus of the 1983 Stallion Resources Ltd.'s drill program, and part of the northwestern induced polarization anomaly is currently mapped as a series of syenodiorite dykes intruded into the syenite breccia which is overlain by volcanic breccia.

The majority of the northwestern and central induced polarization zones are coincident with areas of anomalous copper geochemistry in the soils. The local ice direction in this area is accepted to be southwest to northeast. The geochemical distribution tends to confirm this with a general geochemical smear to the northeast. Very few anomalous geochemical values are seen to the south west of the central induced polarization zone. This indicates that the induced

polarization anomalies are the source of the copper mineralization.

The geochemical data displays several other interesting general trends:

Molybdenum is found only in the northeast corner of the property. This area is most likely underlain by part of a granitic batholith.

Zinc is mainly concentrated in the south-southcentral portion of the claim group. The zinc may in part be concentrated here due to the prevalent drainage and its high mobility.

Gold is concentrated on the northeastern flanks of the induced polarization anomalies. This is probably due to ice direction and the low mobility of gold. This would also indicate that the gold is sourced in the area of the induced polarization anomalies.

Silver values on this property are generally extremely low. This is hard to explain since substantial amounts of silver have been reported in drill core and rock samples. It is possible that this may be due to the ICP analysis technique.

Potassium is generally distributed in the southwestern-central reaches of the property. This may again be due to the prevalent drainage patterns. Potassium values are low in most areas mapped as being underlain by the synodiorite intrusive rocks. An interesting relatively narrow potassium high strikes southwest to northeast on the property. This is may sourced in a narrow fracture zone associated with K-spar alteration or a late k-spar rich

intrusive dike. A break in the potassium data is noted along the general trend of a magnetic low described by G.White 1988.

Vanadium expresses the same general trend as the potassium data. A strong break in the vanadium data is noted along the same magnetic low as the break in the potassium data. A second weaker break is subparallel and to the west of this major break in the data. This break is also coincident with a weaker subparallel magnetic low described by G. White 1988. The combined magnetic, induced polarization and geochemical data leads me to postulate that the host rock - source of the mineralization in the area is the syenite breccia and that this is not a vent rock as originally thought but rather a conglomeratic tuff containing disseminated mineralization. This mineralization may be concentrated to massive or semi-massive sulphides in some areas.

Evidence for the postulate:

1. Most of the known mineralization on the property is within a few hundred metres of mapped or geologically inferred occurrences of the tuff.
2. Most of the copper and gold soil geochemical highs are coincident or down ice of the postulated occurrence of the tuff.
3. All known occurrences of the tuff are within the bounds of the strongest induced polarization anomalies.
4. The tuff has been seen to contain disseminated pyrite and chalcopyrite.

5. Geophysical evidence suggest that the conglomeratic tuff has been heavily broken and displaced by fault activity.

The geophysical signature of the central induced polarization zone suggests the zone is a lithological unit fault terminated at both ends, with a strike length of 1500 metres and a near surface width of approximately 300 metres dipping at 40-60 degrees to the north. This zone lies in contact with various volcanic units all of which may host the sulphide mineralization. This zone has been intruded by syenodiorite dikes which may have remobilized and concentrated the mineralization. The conglomeratic tuff presents an excellent exploration target.

Recommendations:

The prime targets for exploration are two strong induced polarization anomalies in the central portion of the claim group. These anomalies are sourced in a significant amount of sulphide mineralization. The presence of copper sulphides in previous drill results and outcrop support the theory that a significant part of the induced polarization anomaly is sourced in copper sulphides. The distribution of the geochemical data also indicates that copper is not isolated to the known showings.

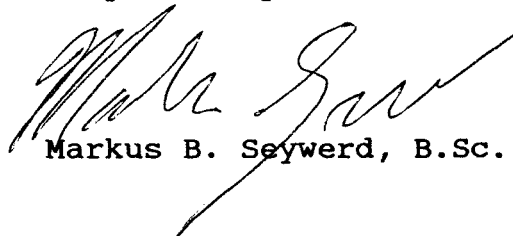
The induced polarization data indicates that the syenite breccia may not be a vent material but part of a large geological unit dipping at 40-60 degrees to the north, possibly a conglomeratic tuff. This area should be extensively trenched and drilled to determine the nature of the central induced polarization anomaly.

The northeastern induced polarization anomaly is known to be sourced in copper sulphides in the vicinity of the Tim No. 1 showing. Here previous drill data returned 140 feet of 2.91% copper (not true width) with 0.79oz/ton silver and 0.02oz/ton gold. The previous drilling was on the flank of the anomaly leaving the main portion of the anomaly still to be tested. The anomaly extends 400 metres to the southeast and 900 metres to the northwest of the Tim No. 1 showing. This entire area should be explored by trenching and drilling.

Conclusions:

The geological, geophysical and geochemical evidence indicates that the Tim Claims have excellent potential of hosting an economic orebody. The induced polarization and geochemical surveys have delineated two large anomalous zones which are sourced in sulphides. The known mineralization and soil geochemical survey suggest that a significant portion of these are copper sulphides. Known mineralization and soil geochemical results also suggest that the sulphides host significant precious metals. Due to the large extent of the anomalies a program of trenching and percussion drilling (reverse circulation) should be undertaken to test these anomalies.

Respectfully Submitted,



Markus B. Seywerd, B.Sc.

COST BREAKDOWN: Soil Geochemistry Survey

<u>Personnel</u>	<u>Dates</u>	<u>Wages</u> <u>per Day</u>	<u>Total</u>
B. Robertson	Jul.25-Aug 14	\$ 400.00	\$8400.00
L. Torhieden	Sept.26-Oct.1	\$ 350.00	2100.00
J. Towmey	Aug.9-Aug.18	\$ 350.00	3500.00
T. Watson	Jul.25-Jul.31	\$ 350.00	2450.00
Room and board 44 mandays @ \$65/manday.....			2860.00
Truck 31 days			3100.00
Sample analysis			<u>18,623.15</u>
			subtotal \$41,533.15

COST BREAKDOWN: Induced Polarization Survey

<u>Personnel</u>	<u>Dates</u>	<u>Wages</u> <u>per Diam</u>	<u>Total</u>
B. Robertson	Oct.23-31	\$ 350.00	\$14,350.00
	Nov.1-4,8-30		
	Dec.1-3		
A. Kriberg	Oct.24-31	\$ 275.00	10,725.00
	Nov.1-6,9-30		
	Dec.1-3		
R. Street	Oct.24-31	\$ 275.00	10,175.00
	Nov.1-4,9-30		
	Dec.1-3		
T. Kolchinski	Oct.23-Oct.31	\$ 275.00	4,125.00
	Nov.1-6		
D. Hrynyk	Nov.8-19	\$ 300.00	3,600.00
J. Gordon	Nov.20-30	\$ 275.00	4,400.00
Instrument Rental 41 days @ 200/day			\$ 8,200.00
Room and board 160 mandays @ \$65/manday.....			10,400.00
Truck 43 days			<u>4300.00</u>
			Subtotal \$70,275.00
Mobilization and demob.			\$ 5,000.00
Trenching			\$ 1,000.00
Road Building			\$ 7,500.00
Drafting and reproduction			\$ 3,800.00
Plotting			<u>\$ 4,500.00</u>
			Subtotal \$21,800.00

**COST BREAKDOWN: Soil Geochemistry Plotting and Compilation
Report:**

<u>Personnel</u>	<u>Dates</u>	<u>Wages per Diam</u>	<u>Total</u>
M. Seywerd	Apr.20-28	\$ 400.00	\$3,600.00
Drafting Reproduction And Binding			<u>1,000.00</u>
			Subtotal \$ 4,600.00

Total Exploration Expenditures Covered By Report \$138,208.14

REFERENCES:

- Butler, P., Diamond Drilling Report on the Tim 2 Claim, Clinton Mining Division, Stallion Resources Ltd., April 1984.
- Campbell, R.B., Geology, Quesnel Lake (West Half), British Columbia, G.S.C. Map 3-1961, 1961.
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- Fox, P.E., Cameron, R.S., Hoffman, S.J., Geology and Soil Geochemistry of the Quesnel River Gold Deposit, British Columbia, GEOEXPO/86, The Association of Exploration Geochemists.
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- Gamble, A.P.D. and Hoffman, S.J., Assessment Report Soil Geochemical Survey on the Core 8 -13 Claims, Selco Division BP Resources Canada Limited, October 1984.
- Hodgson, C.J., and DePaoli, G.M., 1971 Property Report, Spout Lake Copper Property, Amax Potash Limited, January 1972.

Hodgson, C.J., and DePaoli, G.M., Final 1973 Property Report, Spout Lake Copper Property, Amax Potash Limited, November 1973.

Janes, R.H., A Report on the Geochemistry of the Peach North & South Groups, Clinton Mining Division, Coranex Limited, August 1967.

Jones, H. M. A Report on the Tim Claims, Mount Timothy, Lac La Hache Area, B.C. 1990

Saleken, L.W. and Simpson, R.G., Cariboo-Quesnel Gold Belt, A Geological Overview, Western Miner, April 1981.

Vollo, N.B., Diamond Drilling Report, WC Group, Craigmont Mines Ltd., May 1975.

White, G.E., Geophysical Report, Tim ,Tim 1 and Tim 2 Claims, Lac La Hache Area, B.C., 1988

STATEMENT OF QUALIFICATIONS

NAME: SEYWERD, MARKUS B., B.Sc.

PROFESSION: Geophysicist

EDUCATION: University of British Columbia -
B.Sc., Mathematics

EXPERIENCE: Three years of summer field work with Noranda Exploration Company Ltd. in British Columbia, Northwest Territories, and Yukon Territories.

Four year Geophysicist with White Geophysical Inc. with work in British Columbia, Saskatchewan, and Yukon Territories.

CERTIFICATE:

I, Markus B. Seywerd, with a business address of 11751 Bridgeport Road, Richmond B.C. do hereby certify that:

- 1) I am a consulting geophysicist.
- 2) I hold a B.Sc. degree (1985) in mathematics from the University of British Columbia.
- 3) I have been practising my profession as geophysicist for over 5 years.
- 4) I have no direct or indirect interest, nor do I expect to receive any interest directly or indirectly in the Tim Claims or securities of Liberty Gold Corp.
- 5) I have based this report on a review of available geological publications and exploration reports in the area of the Tim Claim Group and on the geophysical and geochemical data just acquired.
- 6) I consent to the use of this report in whole or in part by Liberty Gold Corp. for publication or any filing statement of Statement of Material Facts as long as the context of the report is not violated.

Dated April 28, 1990



Markus B. Seywerd, B.Sc.
Consulting Geophysicist

MARK III INDUCED POLARIZATION RECEIVER SPECIFICATIONS

Sensitivity $V_p = 10^{-7}$ to 10^{-6} volts for low noise 1% resolution
 $V_p = 10^{-6}$ to 10 volts for 0.1% resolution
 Total range 30×10^{-6} to 10 volts in 11 ranges

Self Potential Maximum ± 1 volt

M factors 0.1% plus sign with speed/gain control at position 1.0
 0.01% plus sign with speed/gain control set at 0.1

Batteries Self contained battery pack rechargeable Ni-cads, nominal 12 volts four ampere-hour. Optional separate belt battery pack rechargeable Ni-cads. Battery pack weight 4.5 lbs.

Power 0.7 ampere at 12 volts

Consumption

Dimensions 16" x 9" x 5.75"

Weight Without battery pack 12.5 lbs.

Optional Accessories Dual battery charger 110/220 volts, 50-400 Hz input

Features

- Adjustable timing cycle.
- Automatic self potential buck out.
- Automatic signal acquisition for triggering.
- Direct digital readout of Vp and four M factors
- Both Vp and M factors measured and stored in memory registers simultaneously.
- Mistriggering will not affect readings.
- Patented phase lock triggering loop enables operation in high noise areas with Vp levels down to 30 micro volts with 0.1 microvolt resolution.
- Rapid and accurate operation possible with low power transmitters.
- over 10 megohms input impedance

HUNTEC MK IV INDUCED POLARIZATION 2500W TRANSMITTER

SPECIFICATIONS

Power 96-144V line to line, 3 phase, 400 Hz (from
Huntec generator set), 2500W

Output Voltage: 150-2200 dc in 8 steps
Current: &A maximum on low ranges

Current 0.1% current change for 10% change in load
Regulator resistance.
Settling time to 1% approximately 15 msec

Output 1/16 Hz to 1 Hz (time domain and complex
Frequency resistivity)
1/16 Hz to 4 Hz (frequency domain)
(selectable in binary steps from front panel)

Frequency +/- 50 ppm, -30 - 60 degrees C
Accuracy

Output duty 1/2 to 15/16 in increments of 1/16 (time domain)
cycle 15/16 (complex resistivity)
 $t_{ON}/(t_{ON}+t_{OFF})$ 3/4 (frequency domain)

Output Two ranges 0-5A, 0-10A
current
meter

Ground Two ranges 0-10K ohms, 0-100K ohms
resistance

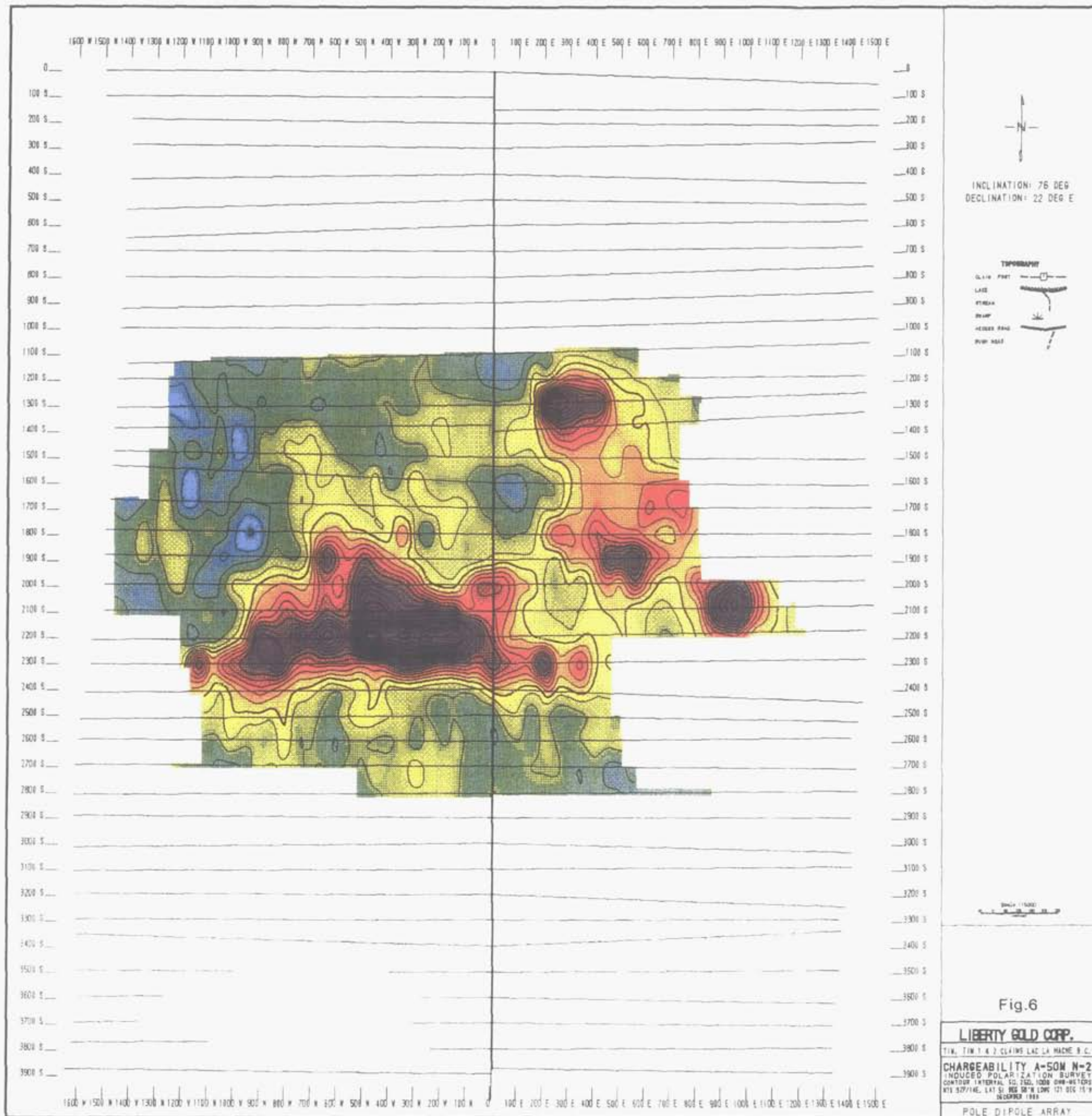
Input 0-150V
voltage
meter

Dummy load Two levels: 500W, 1750W

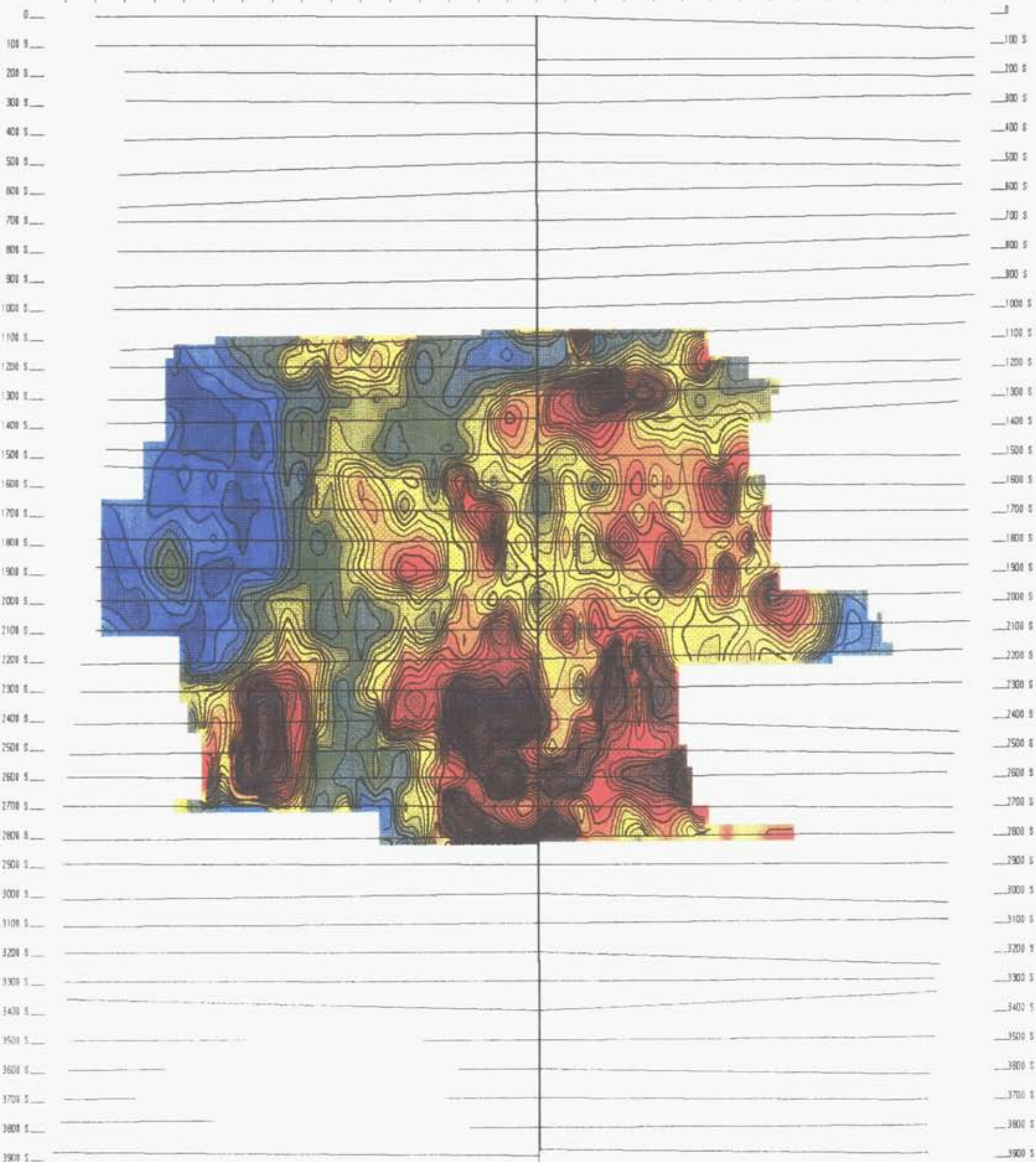
Temperature -34 to 50 degrees C
range

Size 53 x43 x29 cm

Weight 26 kg



1600 W 1500 W 1400 W 1300 W 1200 W 1100 W 1000 W 900 W 800 W 700 W 600 W 500 W 400 W 300 W 200 W 100 W 0 100 E 200 E 300 E 400 E 500 E 600 E 700 E 800 E 900 E 1000 E 1100 E 1200 E 1300 E 1400 E 1500 E



INCLINATION: 76 DEG
DECLINATION: 22 DEG E

TOPOGRAPHY



Fig.7

LIBERTY GOLD CORP.

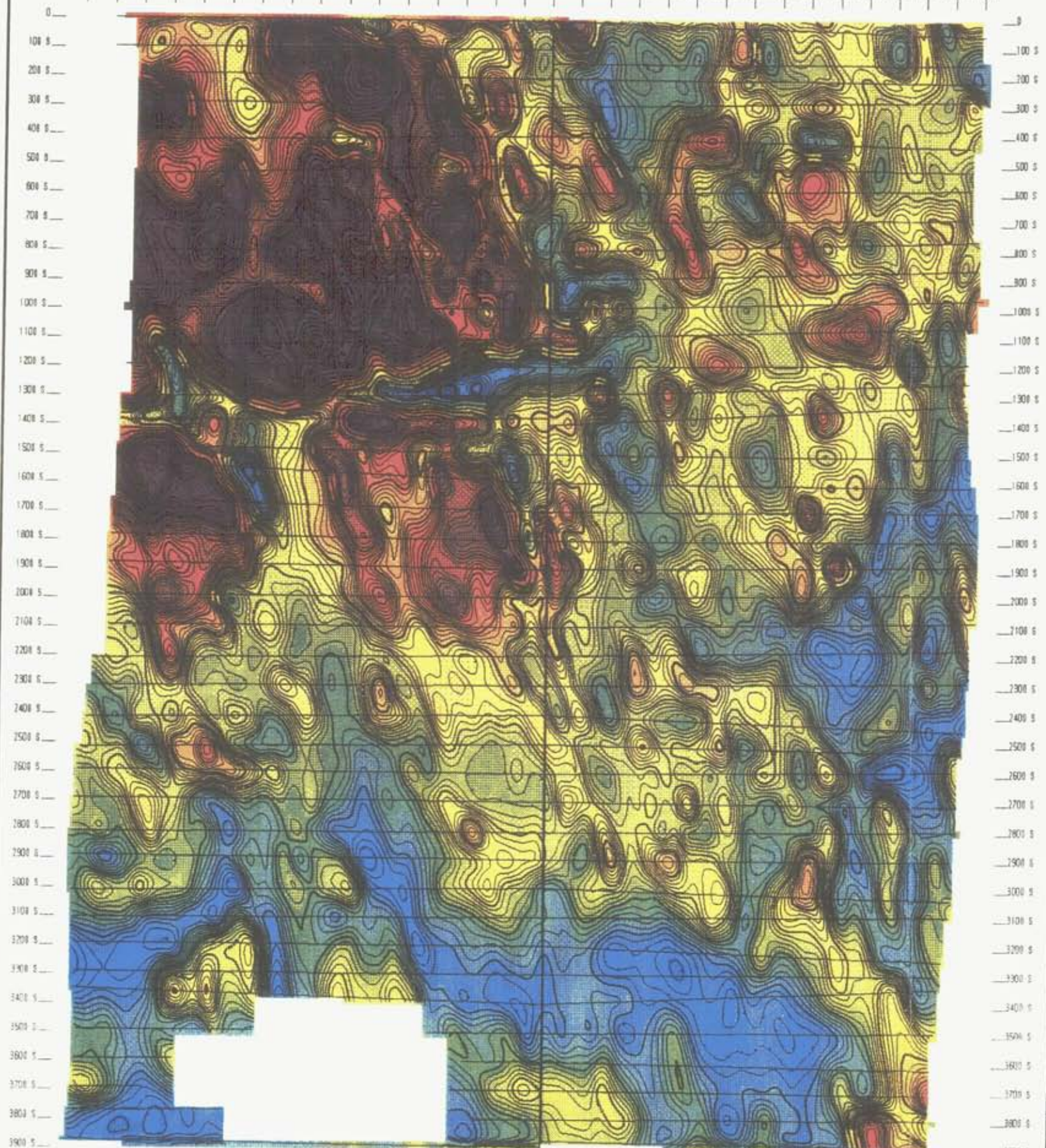
TIN, TIM 1 & 2 CLAIMS LAC LA HACHE B.C.

APPARENT RESISTIVITY A-SON M-2
INDUCED POLARIZATION SURVEY
CONTOUR INTERVAL 50, 250, 1000 OHM-METERS
RTY S0714E, LAT 51 DEG 58' N LONG 121 DEG 15' W
DECEMBER 1988

POLE DIPOLE ARRAY

1600 W 1500 W 1400 W 1300 W 1200 W 1100 W 1000 W 900 W 800 W 700 W 600 W 500 W 400 W 300 W 200 W 100 W 0 100 E 200 E 300 E 400 E 500 E 600 E 700 E 800 E 900 E 1000 E 1100 E 1200 E 1300 E 1400 E 1500 E

1500 W 1500 N 1400 W 1300 W 1200 W 1100 W 1000 W 900 W 800 W 700 W 600 W 500 W 400 W 300 W 200 W 100 W 0 100 E 200 E 300 E 400 E 500 E 600 E 700 E 800 E 900 E 1000 E 1100 E 1200 E 1300 E 1400 E 1500 E



0
100 S
200 S
300 S
400 S
500 S
600 S
700 S
800 S
900 S
1000 S
1100 S
1200 S
1300 S
1400 S
1500 S
1600 S
1700 S
1800 S
1900 S
2000 S
2100 S
2200 S
2300 S
2400 S
2500 S
2600 S
2700 S
2800 S
2900 S
3000 S
3100 S
3200 S
3300 S
3400 S
3500 S
3600 S
3700 S
3800 S
3900 S

0
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200 S
300 S
400 S
500 S
600 S
700 S
800 S
900 S
1000 S
1100 S
1200 S
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1500 S
1600 S
1700 S
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2300 S
2400 S
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2700 S
2800 S
2900 S
3000 S
3100 S
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3600 S
3700 S
3800 S
3900 S



INCLINATION: 76 DEG
DECLINATION: 22 DEG E

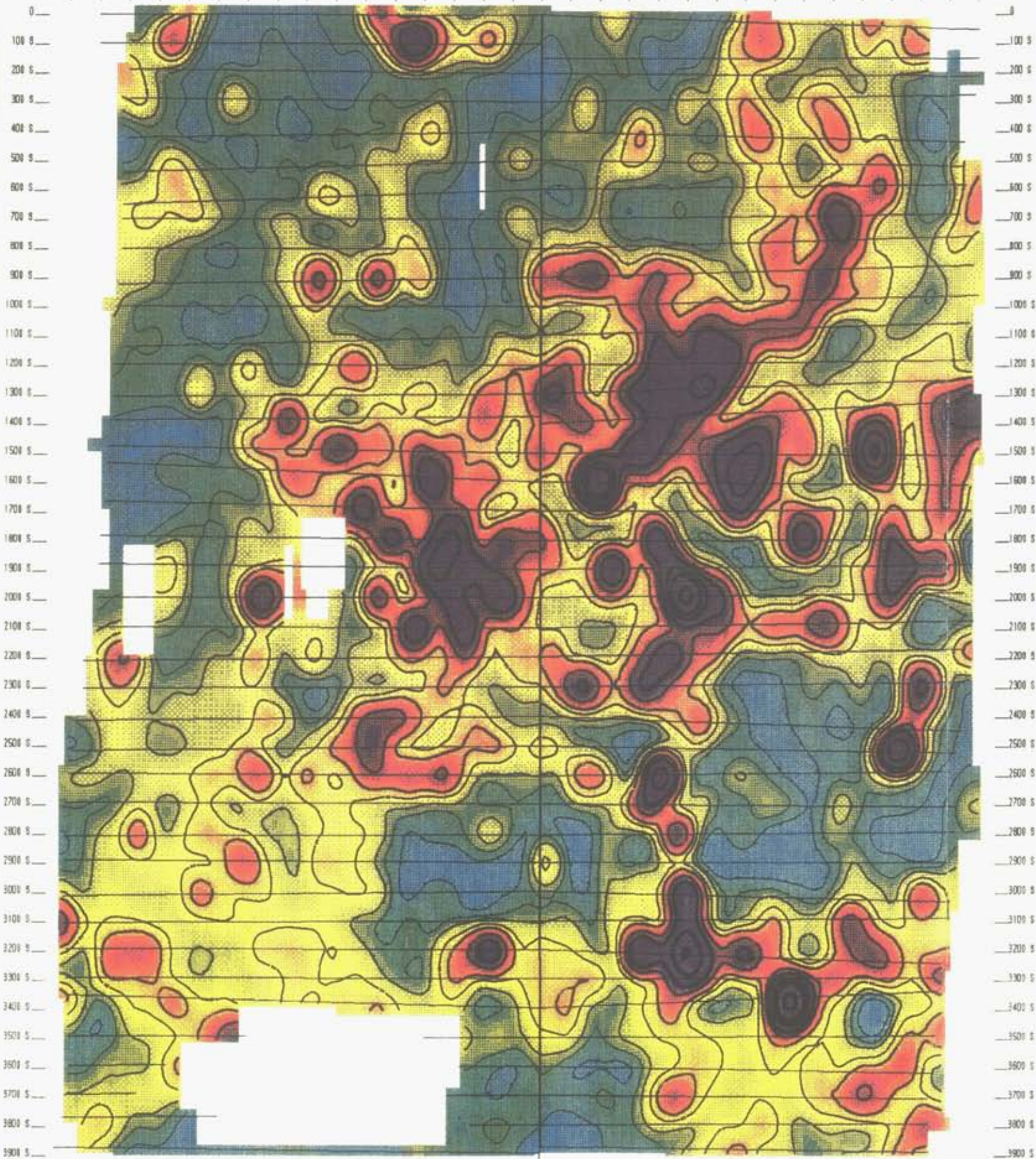


Fig.8

LIBERTY GOLD CORP.
 TIB. TIB 1 & 2 CLAIMS LAC LA MACHE B.C.
TOTAL FIELD MAGNETIC INTENSITY
 INSTRUMENT: EDA 02M1 PLUS
 CONTOUR: INTERVAL: 50; 250; 1000 NT
 HT: 820/14; LAT: 51 DEG 50' N LONG: 121 DEG 15' W
 DECEMBER 1989
 WHITE GEOPHYSICAL INC.

1500 W 1500 N 1400 W 1300 W 1200 W 1100 W 1000 W 900 W 800 W 700 W 600 W 500 W 400 W 300 W 200 W 100 W 0 100 E 200 E 300 E 400 E 500 E 600 E 700 E 800 E 900 E 1000 E 1100 E 1200 E 1300 E 1400 E 1500 E

1600 W 1500 W 1400 W 1300 W 1200 W 1100 W 1000 W 900 W 800 W 700 W 600 W 500 W 400 W 300 W 200 W 100 W 0 100 E 200 E 300 E 400 E 500 E 600 E 700 E 800 E 900 E 1000 E 1100 E 1200 E 1300 E 1400 E 1500 E



INCLINATION: 75 DEG
DECLINATION: 22 DEG E

TOPOGRAPHY



Scale 1:5000

Fig.9

LIBERTY GOLD CORP.

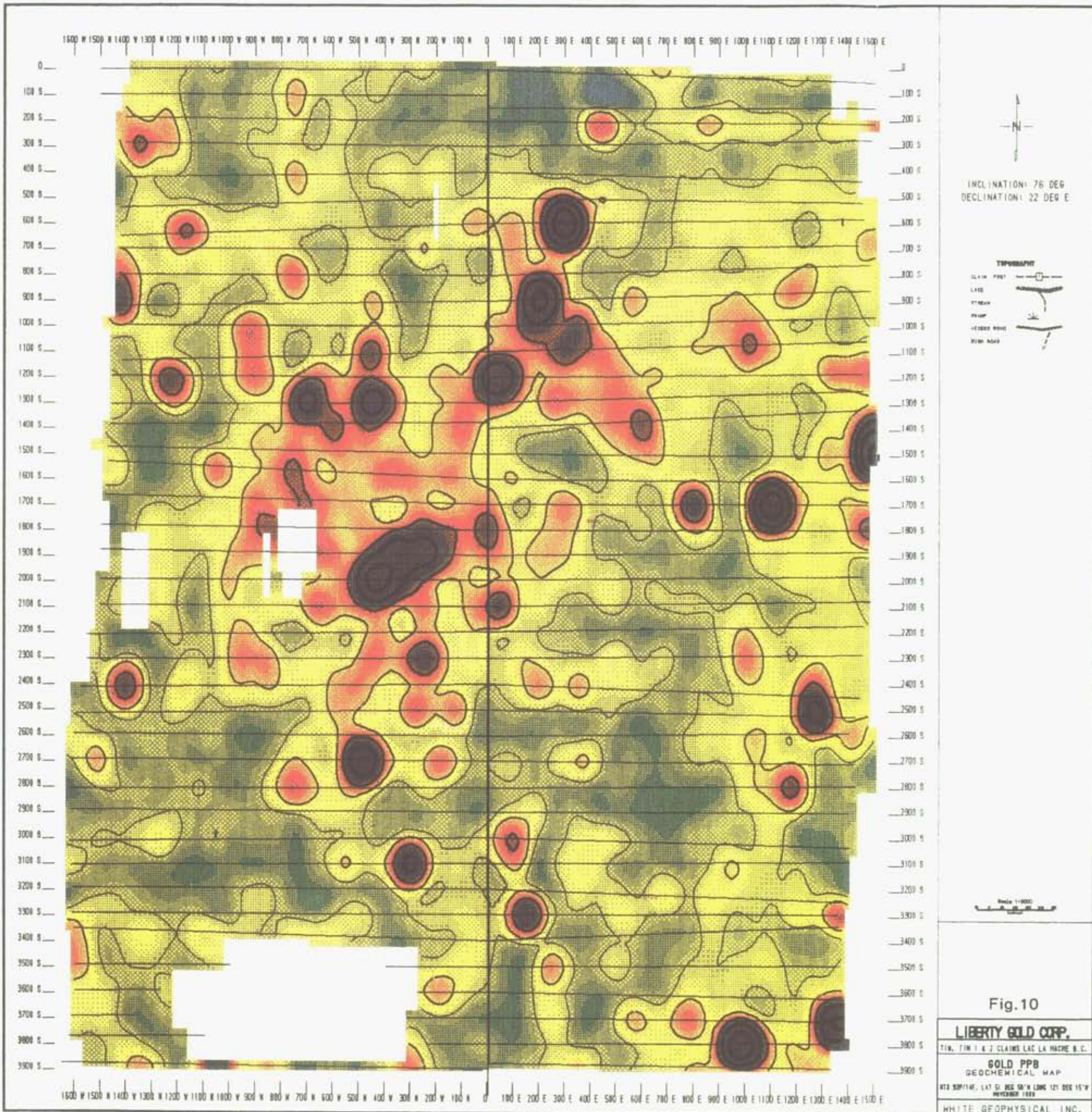
TIN, TIN 1 & 2 CLAIMS LAC LA HACHE B. C.

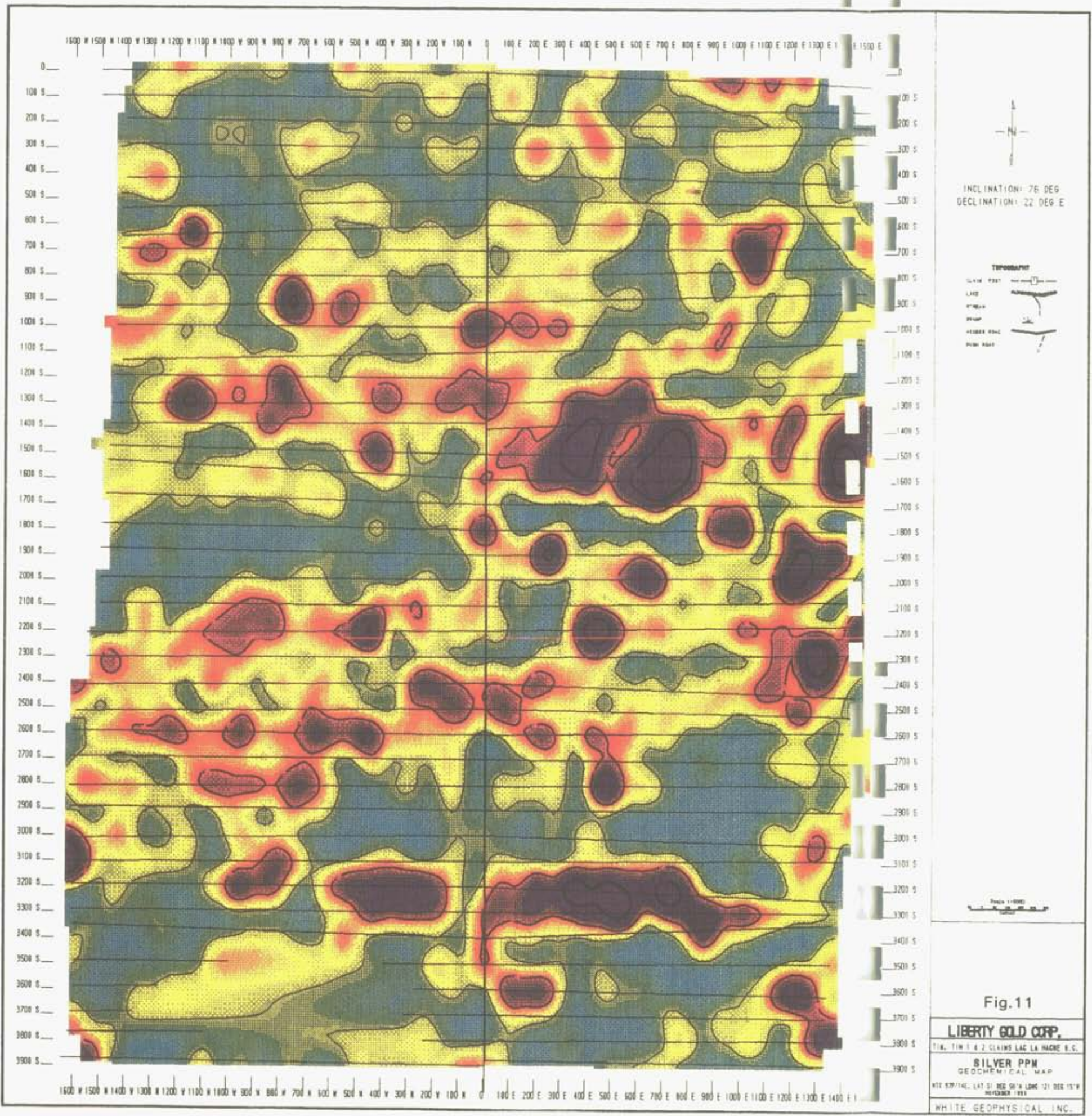
COPPER PPM
GEOCHEMICAL MAP

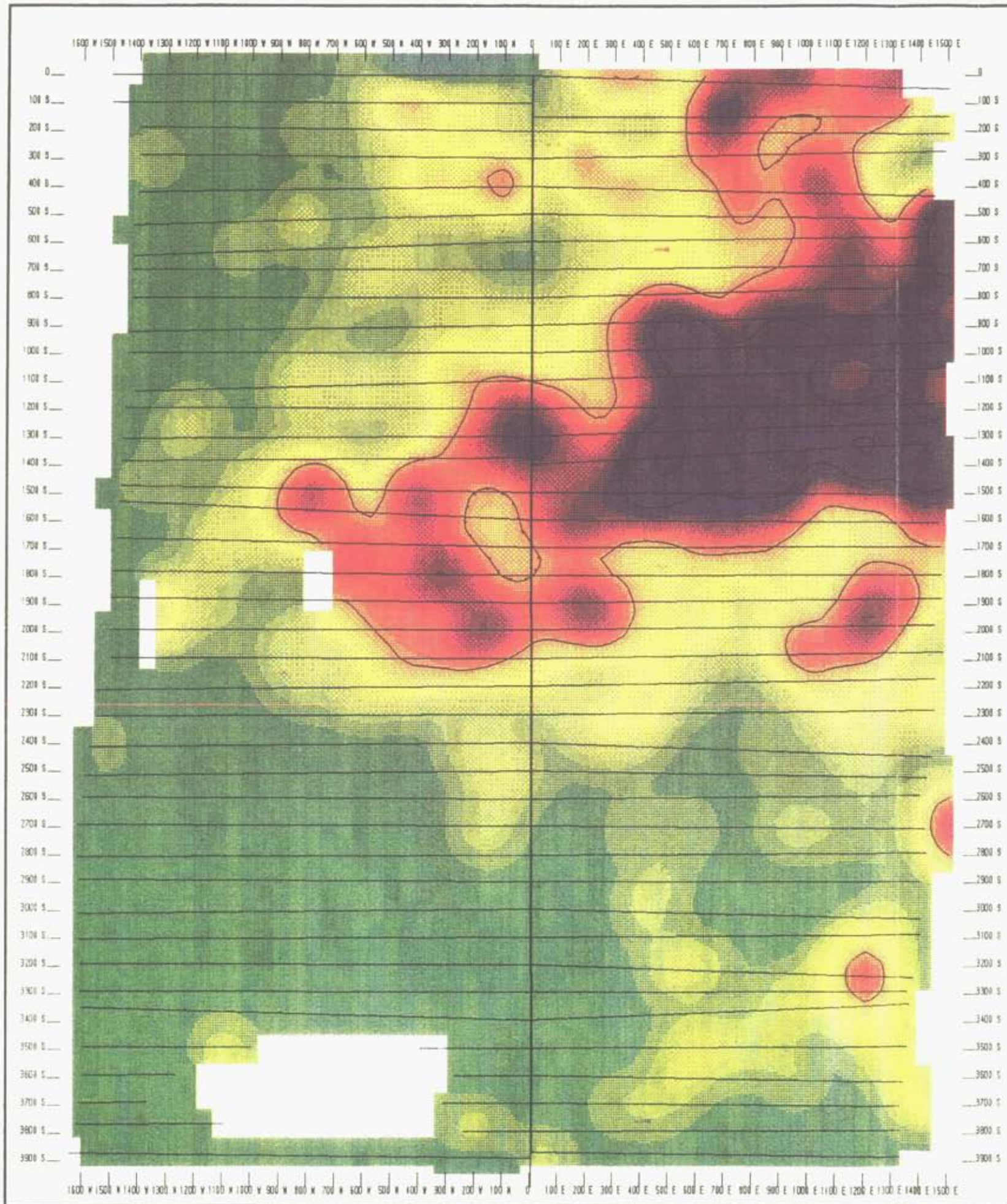
NTS 92P/146, LAT 51 DEG 58' N LONG 121 DEG 15' W
NOVEMBER 1989

WHITE GEOPHYSICAL, INC.

1600 W 1500 W 1400 W 1300 W 1200 W 1100 W 1000 W 900 W 800 W 700 W 600 W 500 W 400 W 300 W 200 W 100 W 0 100 E 200 E 300 E 400 E 500 E 600 E 700 E 800 E 900 E 1000 E 1100 E 1200 E 1300 E 1400 E 1500 E







INCLINATION: 76 DEG
DECLINATION: 22 DEG E

TOPOGRAPHY



Fig. 12

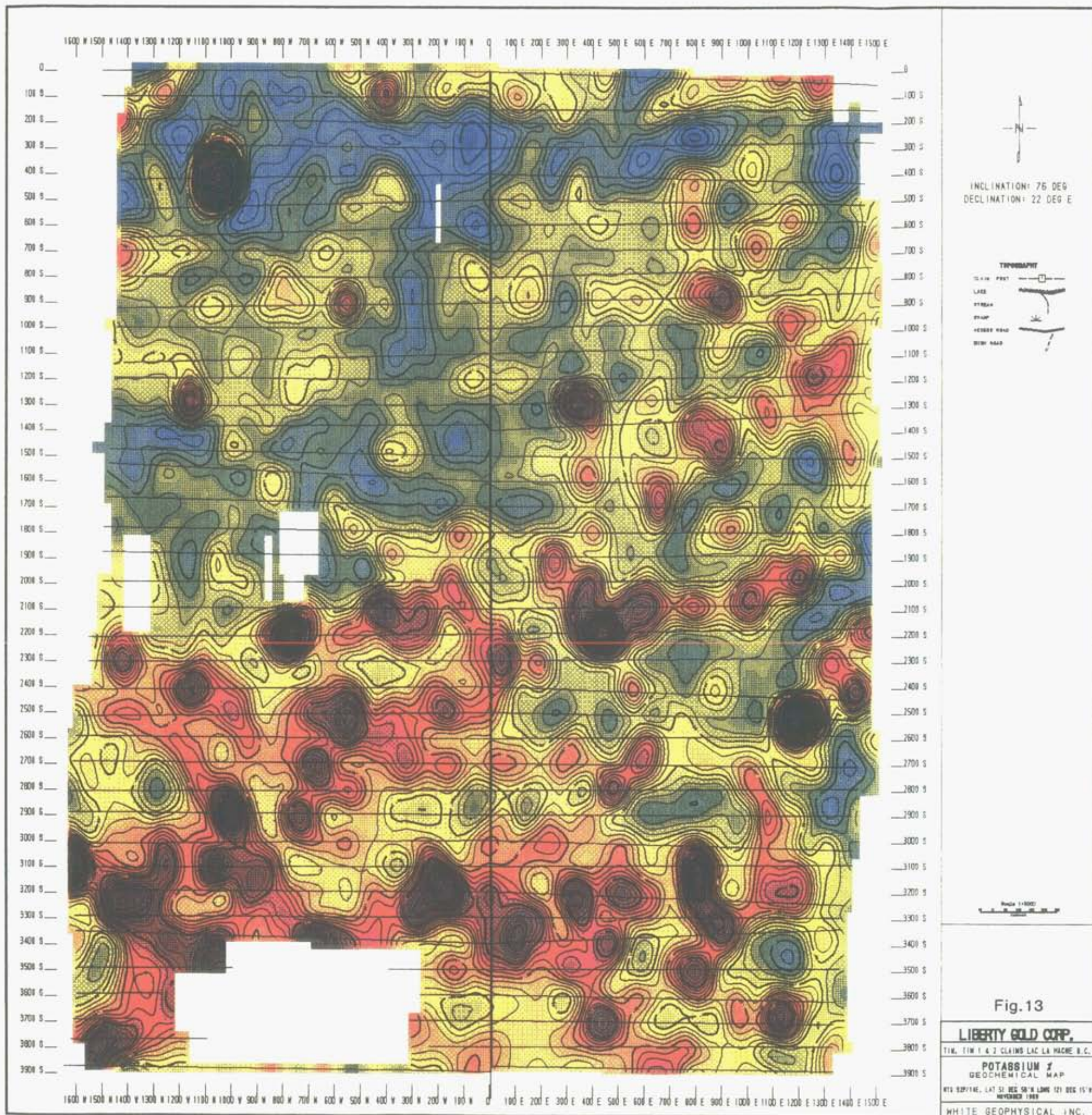
LIBERTY GOLD CORP.

T.M. T.M. 1 & 2 CLAIMS LAC LA MACHE B.C.

**MOLYBDENUM PPM
GEOCHEMICAL MAP**

MTD 927/14E, LAT 51 DEG 58' N LONG 121 DEG 15' W
REVISED 1989

WHITE GEOPHYSICAL INC.

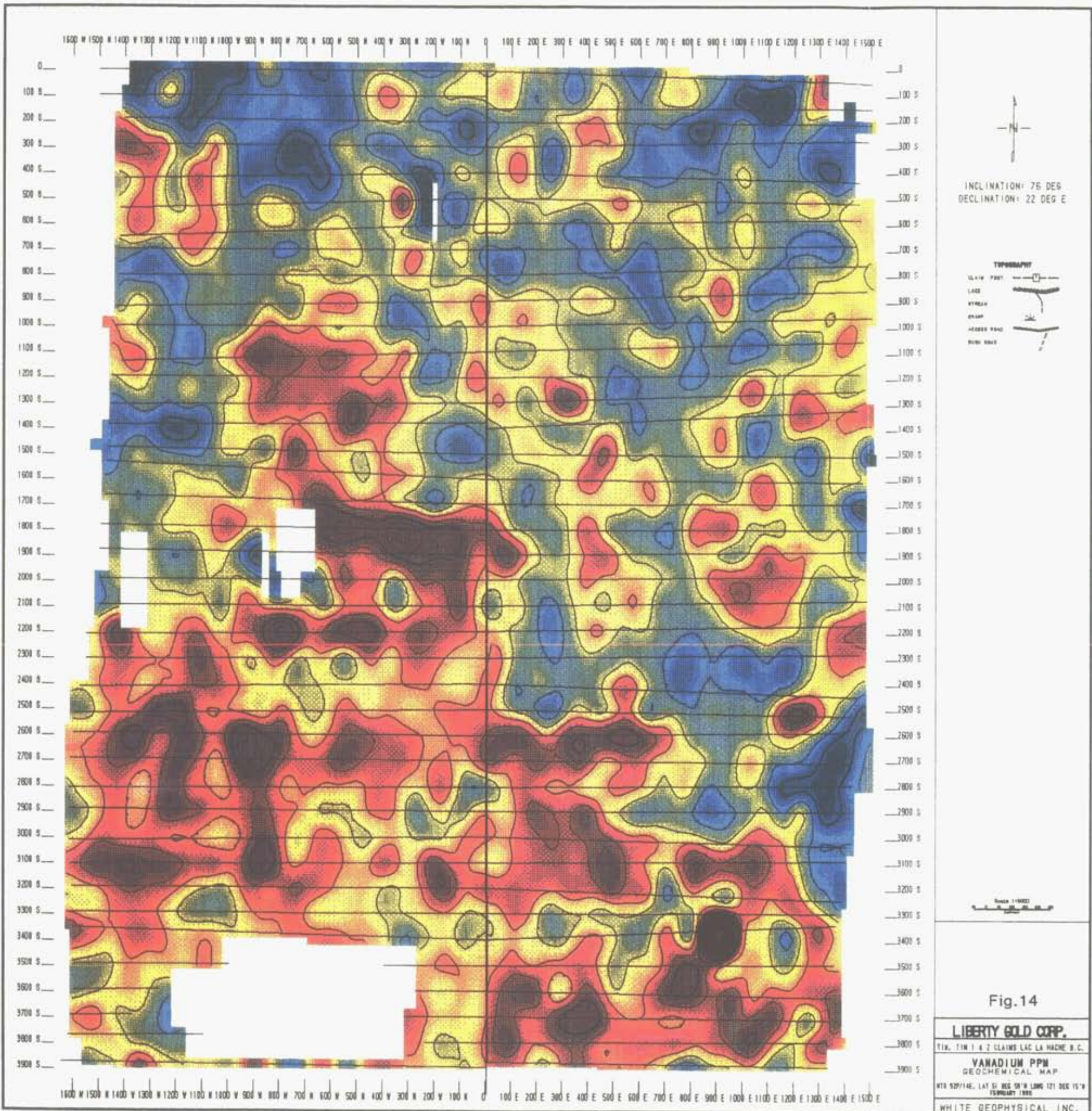


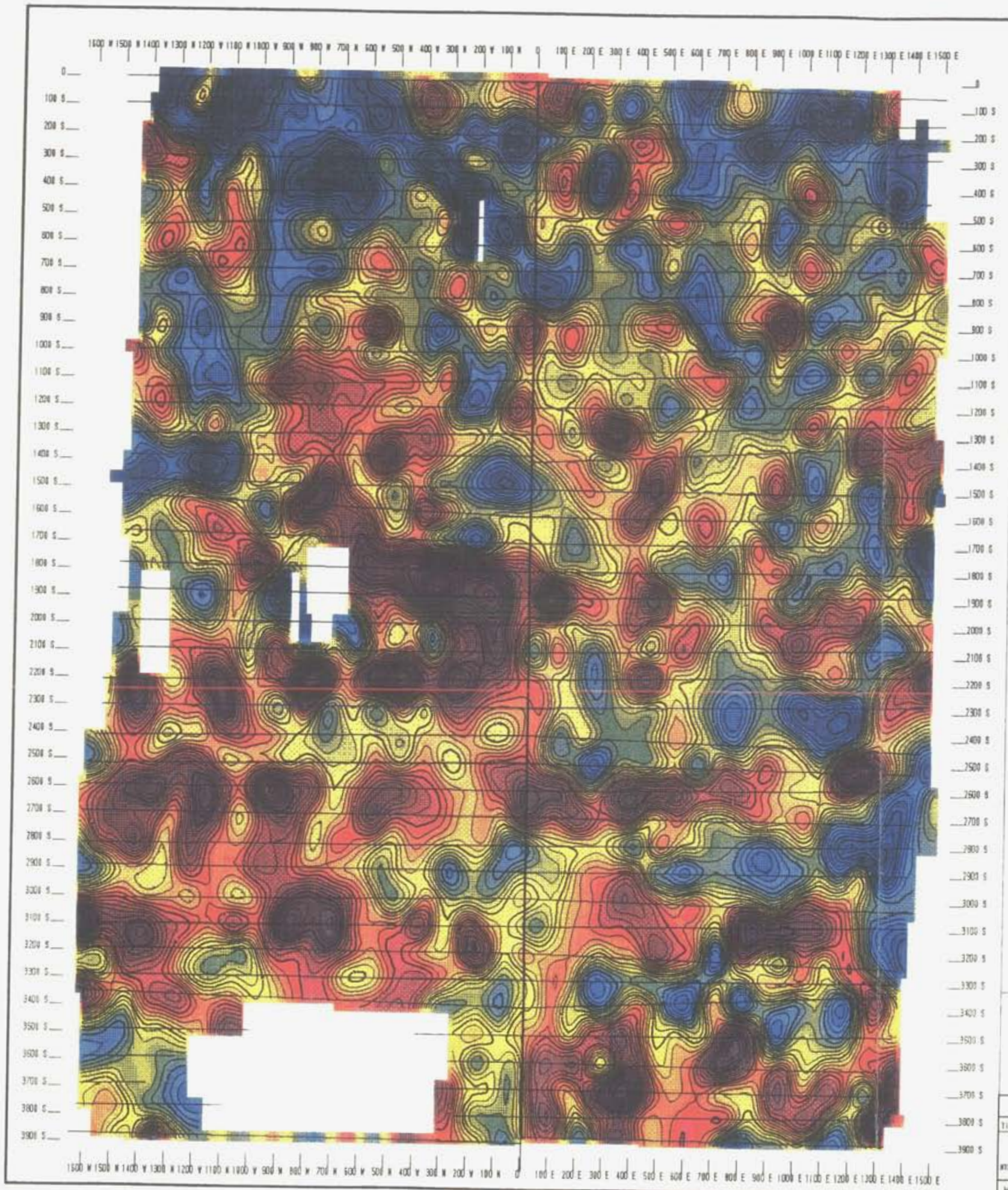
INCLINATION: 75 DEG
DECLINATION: 22 DEG E



Fig.13

LIBERTY GOLD CORP.
T16, T17 & 2 CLAIMS LAC LA MACHE Q.C.
**POTASSIUM &
GEOCHEMICAL MAP**
NOVEMBER 1989
WHITE GEOPHYSICAL INC.





INCLINATION: 76 DEG
DECLINATION: 22 DEG E

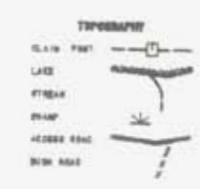
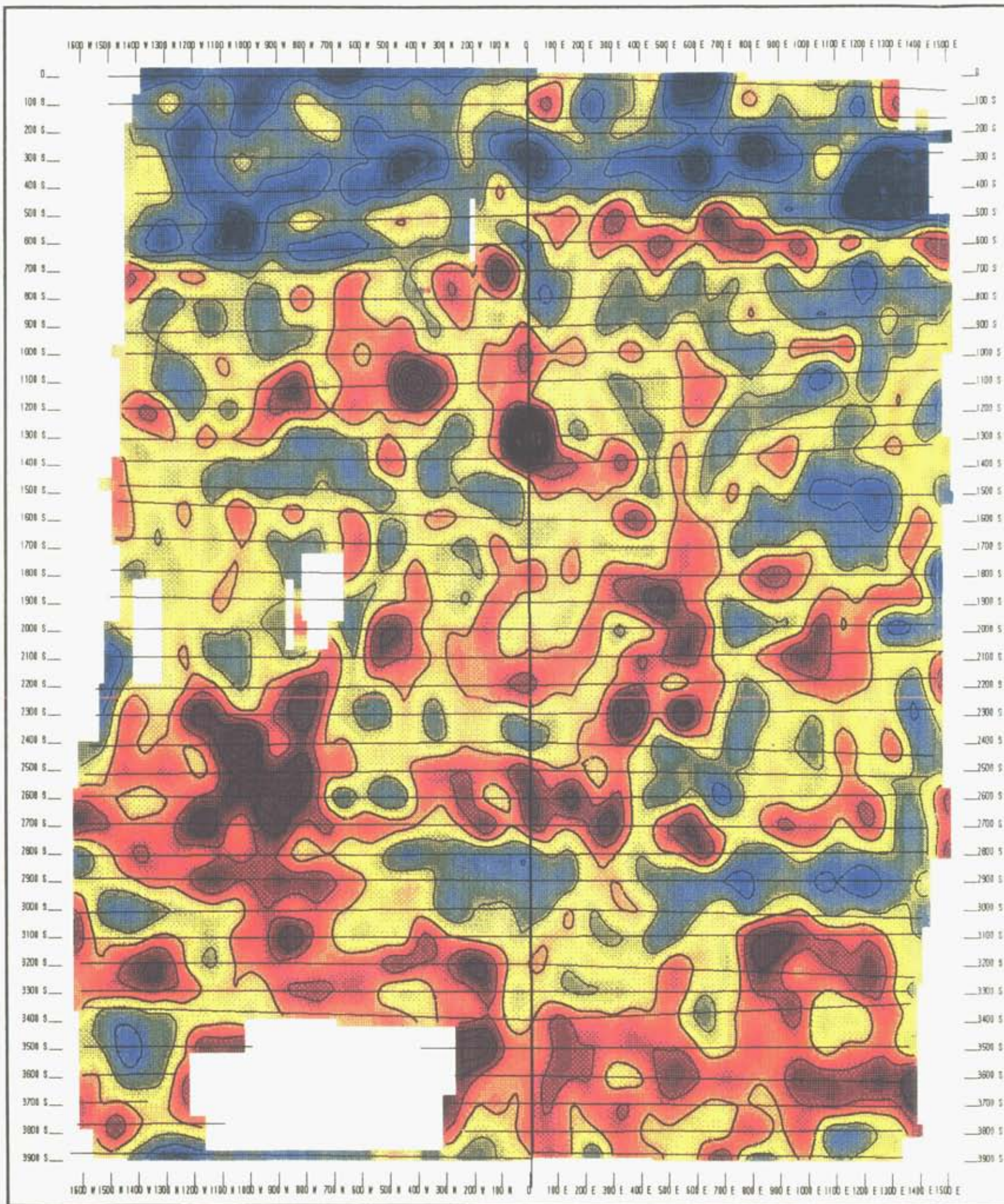






Fig.15

LIBERTY GOLD CORP.
 TIM, TIM 1 & 2 CLAIMS LAC LA HACHE
IRON 7
 GEOCHEMICAL MAP
 873 927/146. LAT 51 DEG 58' N LONG 121 DEG
 NOVEMBER 1983
 WHITE GEOPHYSICAL INC.




 INCLINATION: 75 DEG
 DECLINATION: 22 DEG E

TOPOGRAPHY
 CLIFF FOOT 
 LAKE 
 STREAM 
 BRIDGE 
 HIGH ROAD 
 BURN MARK 


Scale 1:1000


Fig.16

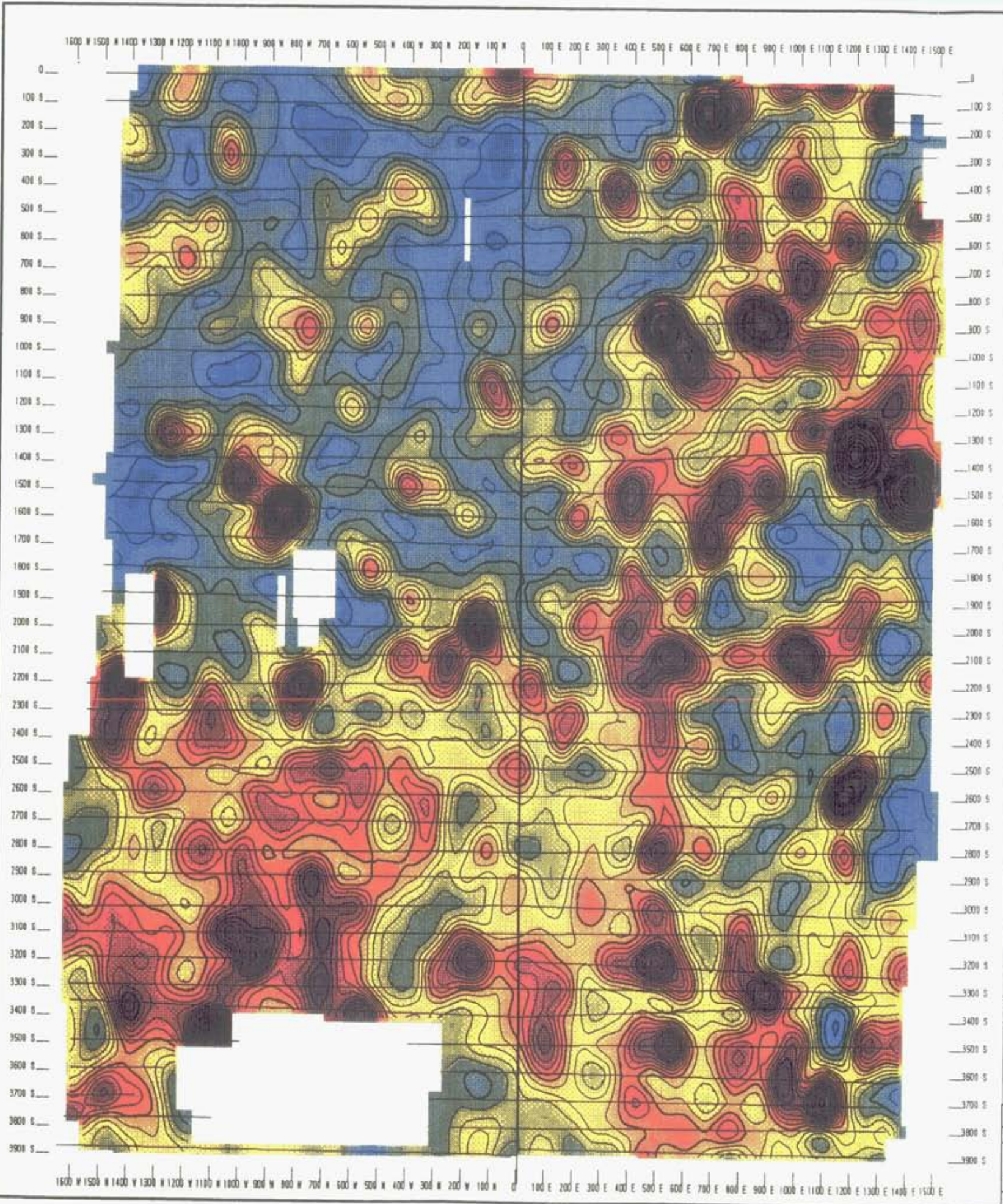
LIBERTY GOLD CORP.

TIN, TIN 1 & 2 CLAIMS LAC LA PACHE B.C.

**LEAD PPM
GEOCHEMICAL MAP**

KTS 929/146, L43 S1 REG 98-N LONG 121 REG 15-N
FEBRUARY 1988

WHITE GEOPHYSICAL INC.

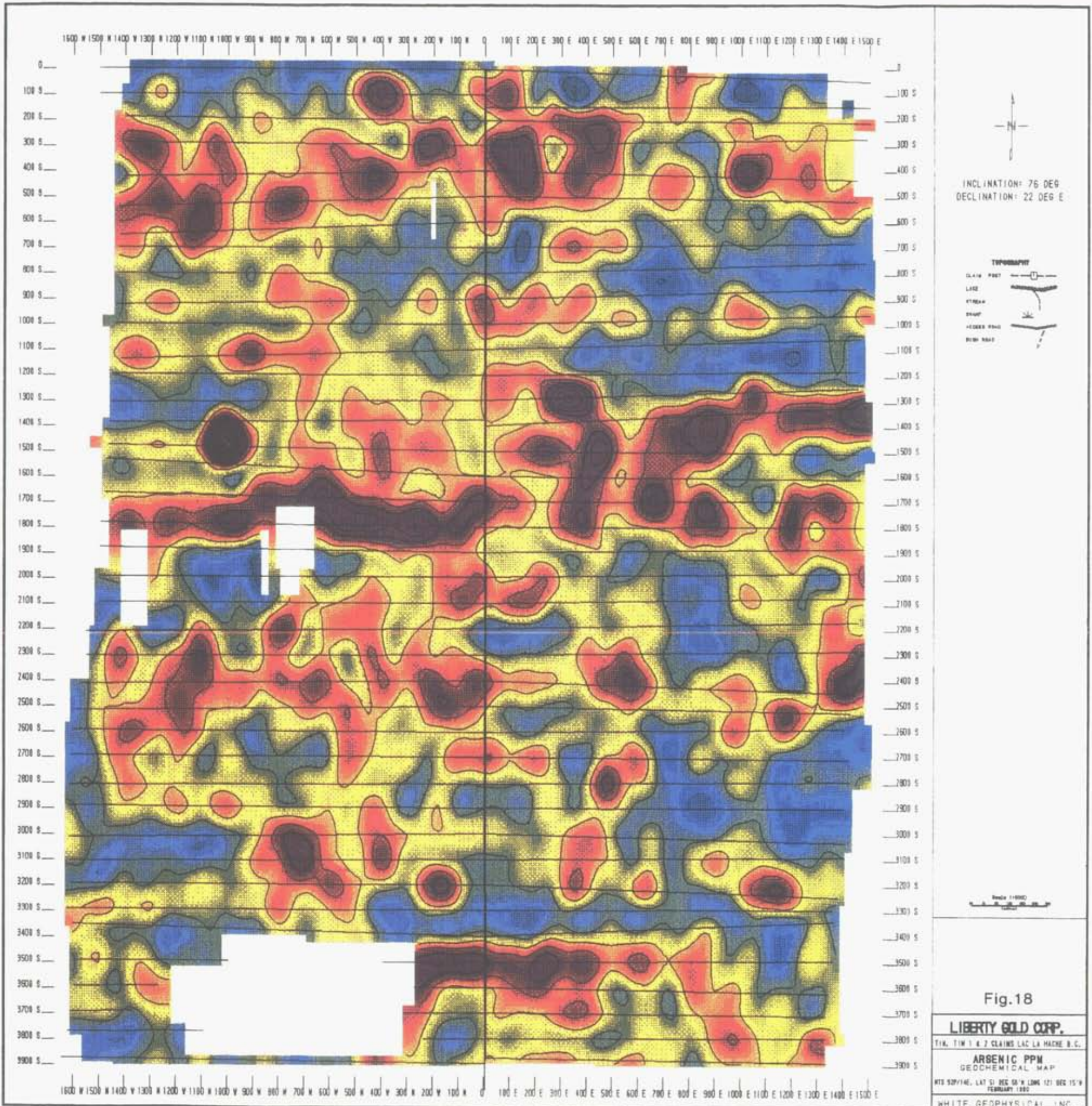


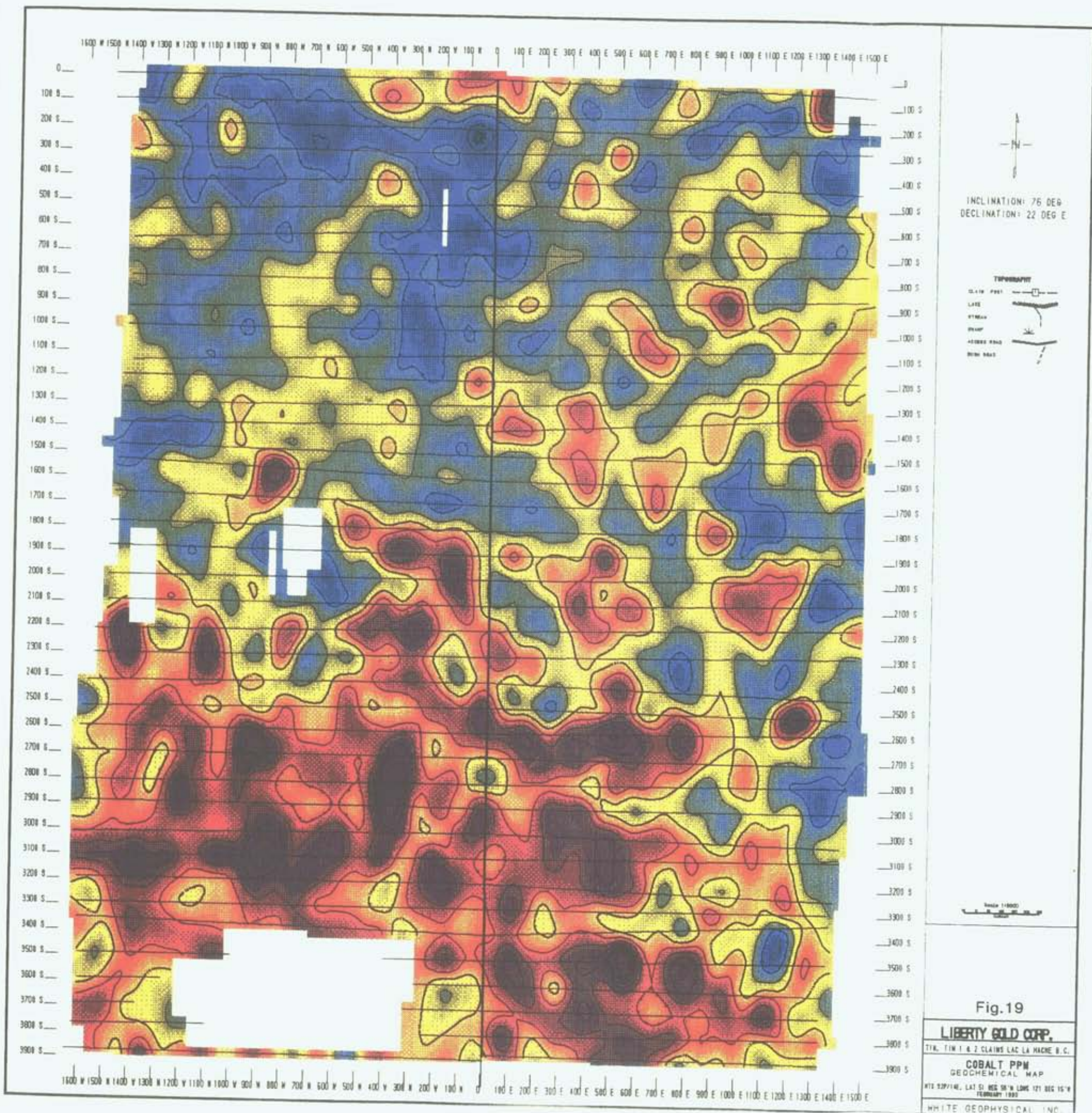
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DECLINATION: 22 DEG E

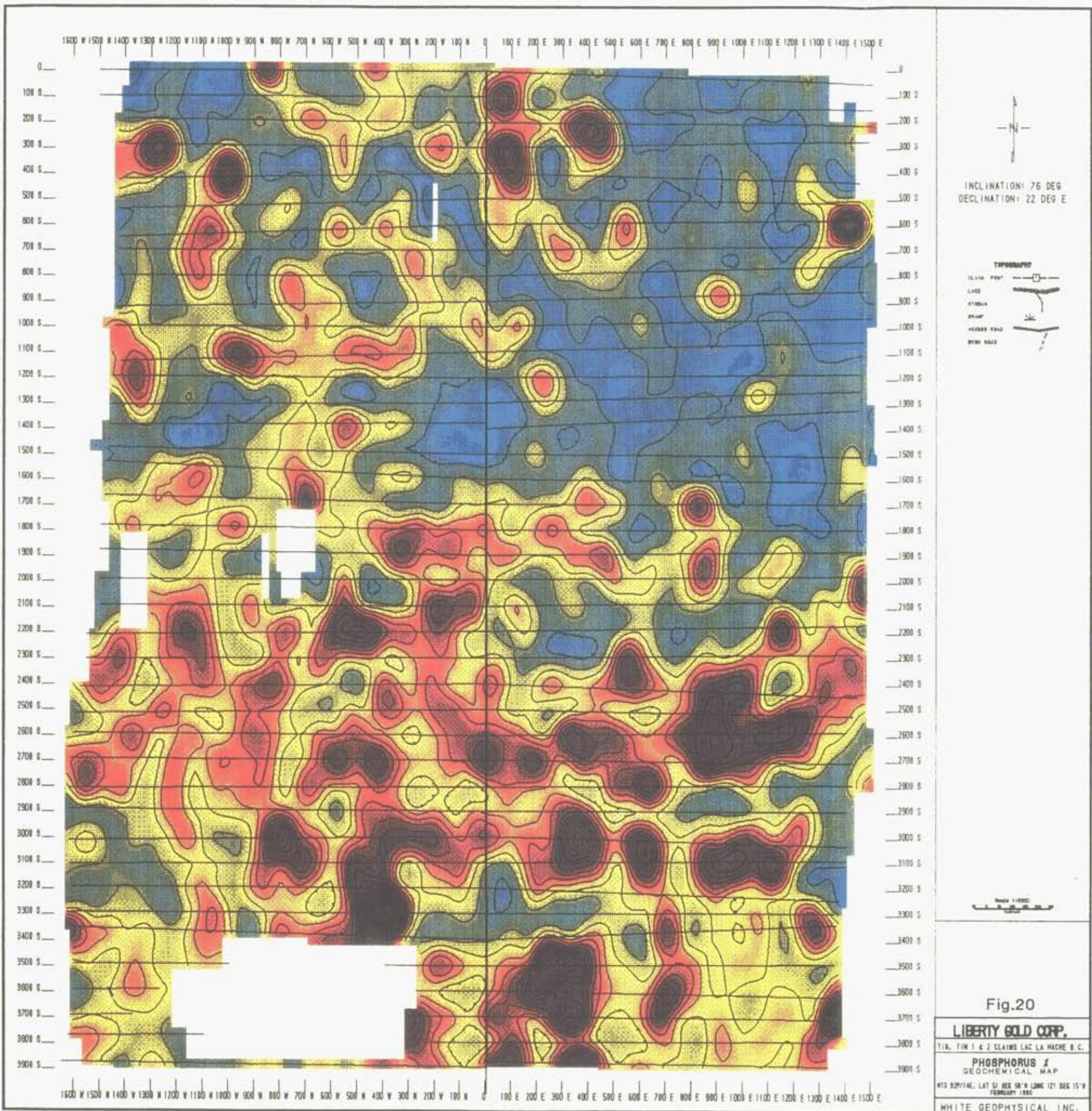


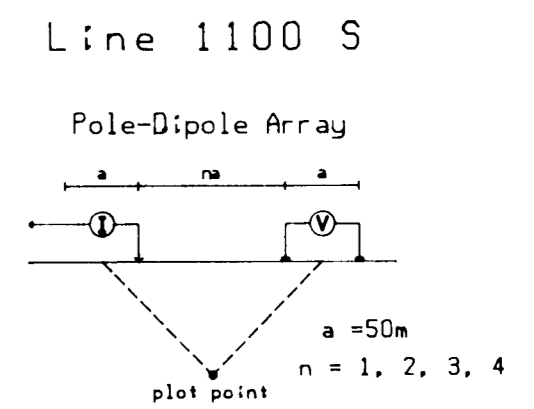
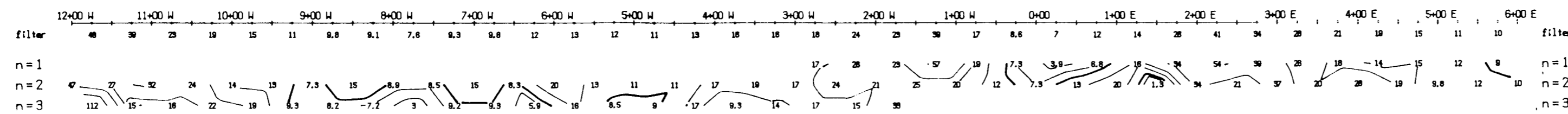
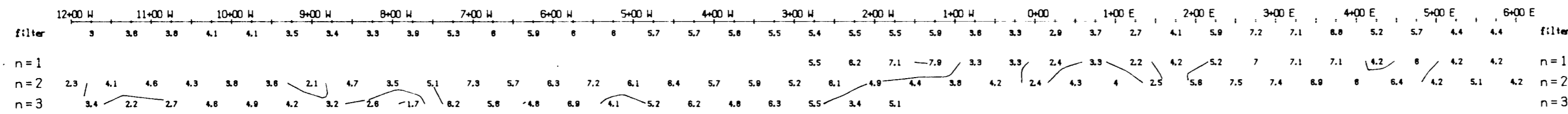
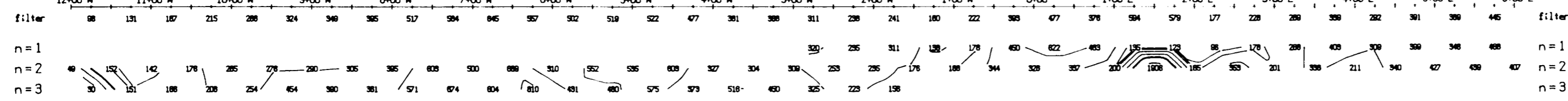
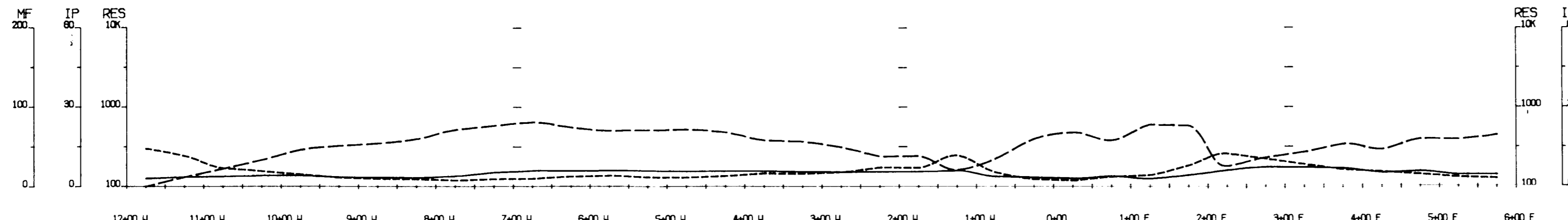
Fig.17

LIBERTY GOLD CORP.
 T16, T17 & 2 CLAIMS LAC LA MACHE B.C.
MANGANESE PPM
 GEOCHEMICAL MAP
 N73 32P/14E, LAT 51 DEG 50' N LONG 121 DEG 15' W
 NOVEMBER 1983
 WHITE GEOPHYSICAL INC.









Line 1100 S
Pole-Dipole Array
a = 50m
n = 1, 2, 3, 4
plot point

Filtered Profiles

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

Instruments: HUNTEC MK2 & MK4 TRANSMITTERS
Frequency = 1/8 Hz
HUNTEC MK3 RECEIVER
Delay Time = 240 ms
Sample Period = 60 ms

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

20,095
Part 1 of 2

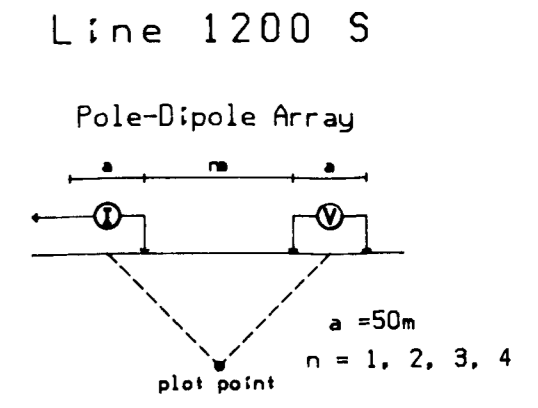
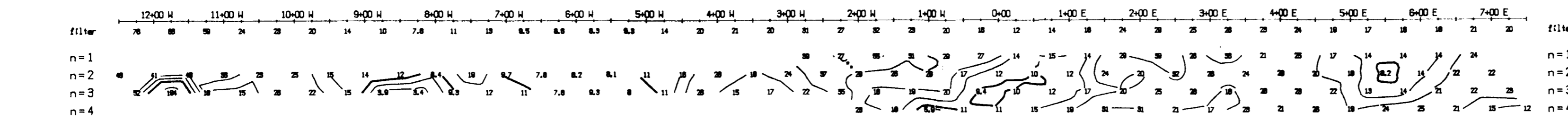
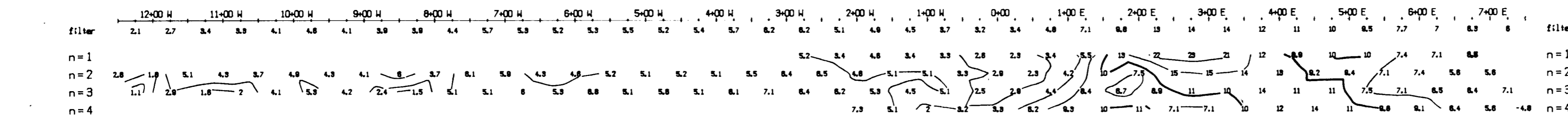
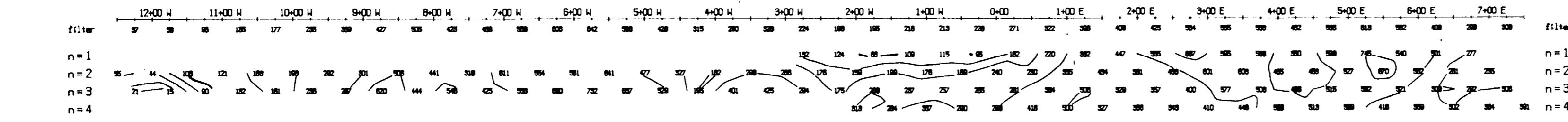
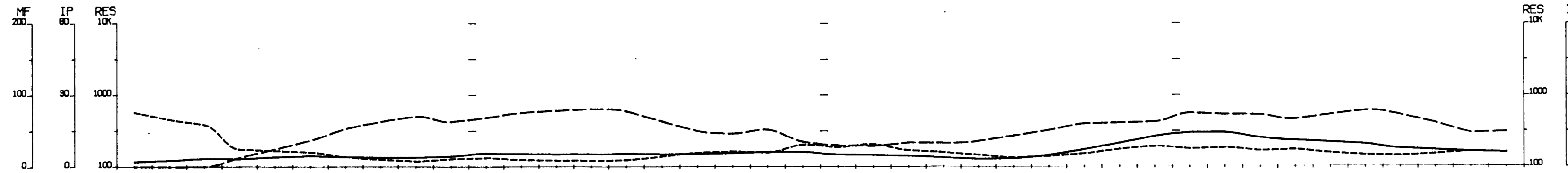
Fig. 21

LIBERTY GOLD CORP.

INDUCED POLARIZATION SURVEY

TIM CLAIMS
LAC LA HACHE, B.C.

Date: 89/12/18
Scale: 1 : 5000
NTS 92P/14W
Lat 51.57' N Long 121 15' W



Filtered Profiles

Resistivity ----- *

Polarization ===== **

Metal Factor -.-.-.-.- ***

Instruments: HUNTEC MK2 & MK4 TRANSMITTERS
 Frequency = 1/8 Hz
 HUNTEC MK3 RECEIVER
 Delay Time = 240 ms
 Sample Period = 60 ms

**GEOLOGICAL BRANCH
 ASSESSMENT REPORT**

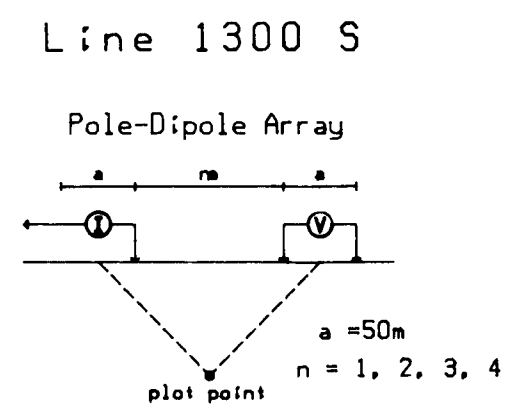
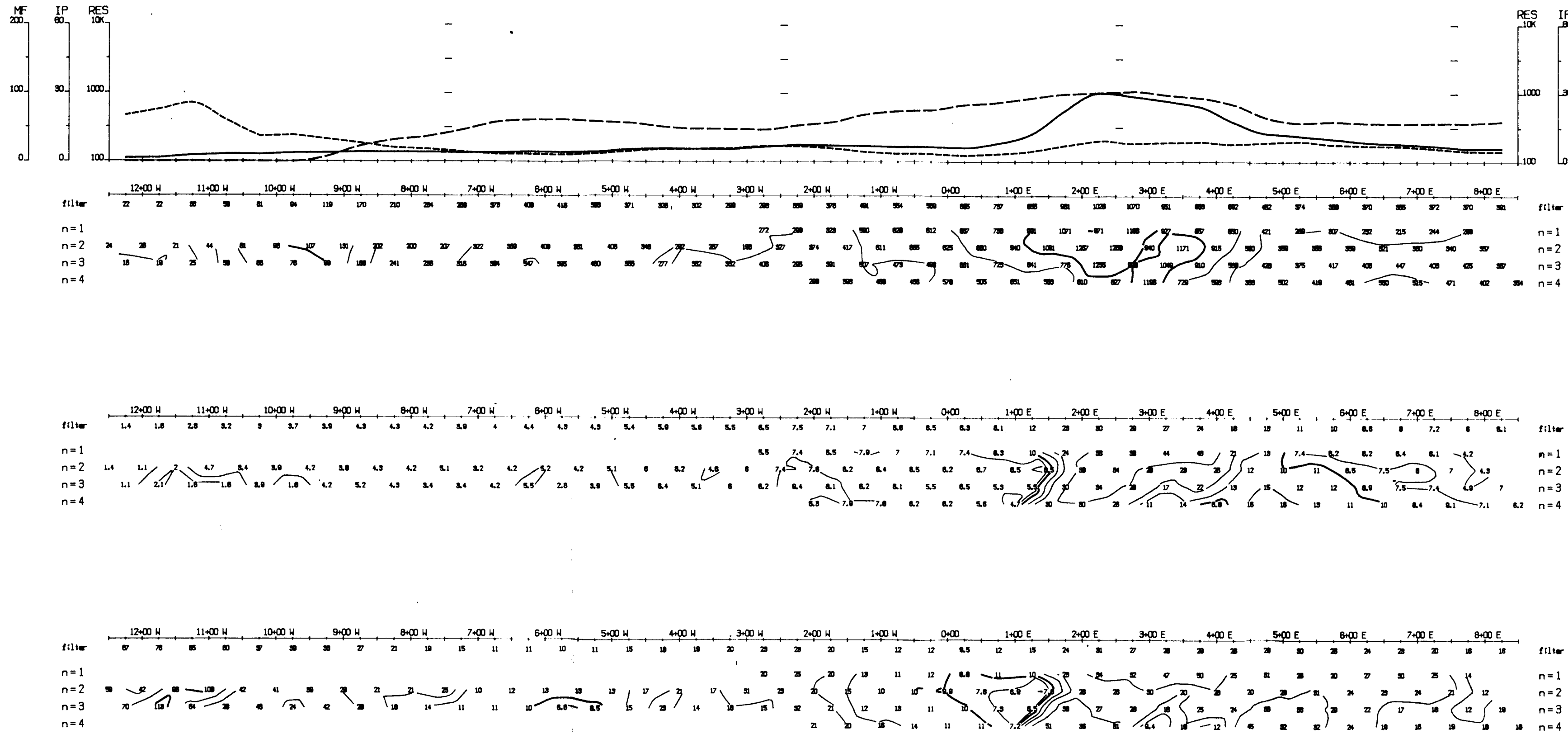
20,095
Part 1 of 2
 Fig. 22

LIBERTY GOLD CORP.

INDUCED POLARIZATION SURVEY

TIM CLAIMS
 LAC LA HACHE, B.C.

Date: 89/12/18
 Scale: 1 : 5000
 NTS 92P/14W
 Lat 51 57' N Long 121 15' W



Filtered Profiles

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

Instruments: HUNTEC MK2 & MK4 TRANSMITTERS
Frequency = 1/8 Hz
HUNTEC MK3 RECEIVER
Delay Time = 240 ms
Sample Period = 60 ms

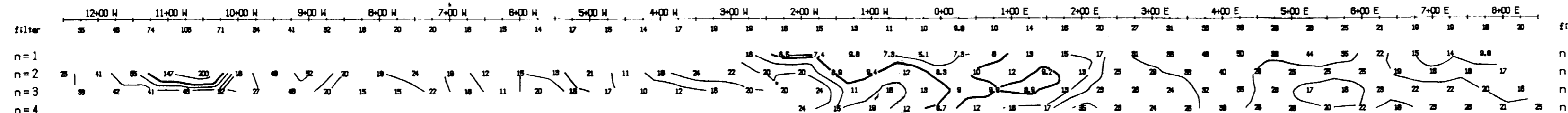
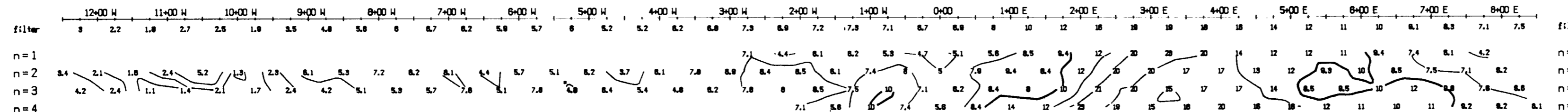
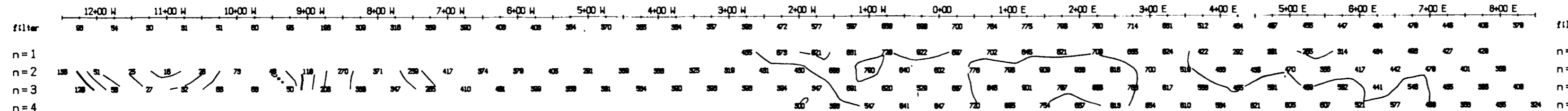
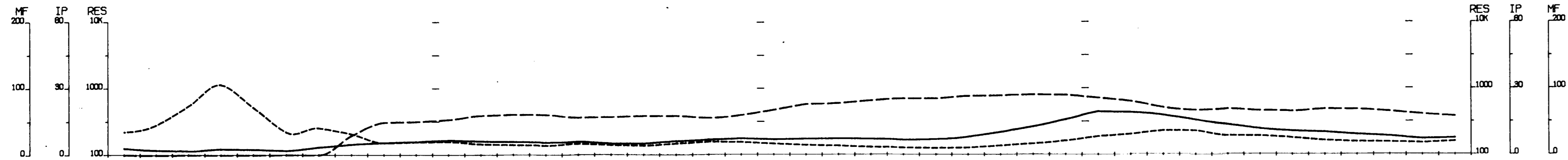
**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

20,095
Part 1 of 2
Fig. 23

LIBERTY GOLD CORP.

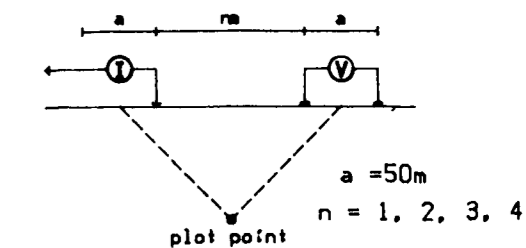
INDUCED POLARIZATION SURVEY
TIM CLAIMS
LAC LA HACHE, B.C.

Date: 89/12/18
Scale: 1 : 5000
NTS 92P/14W
Lat 51 57' N Long 121 15' W



Line 1400 S

Pole-Dipole Array



Filtered Profiles

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

Instruments: HUNTEC MK2 & MK4 TRANSMITTERS
 Frequency = 1/8 Hz
 HUNTEC MK3 RECEIVER
 Delay Time = 240 ms
 Sample Period = 60 ms

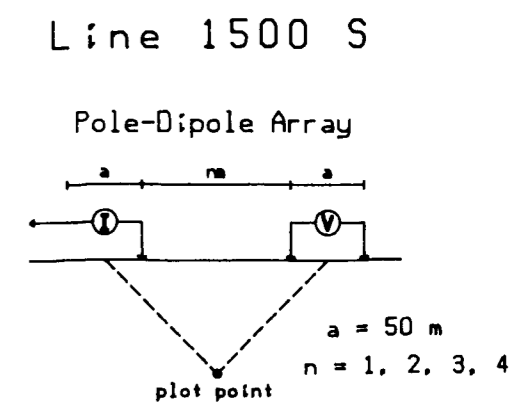
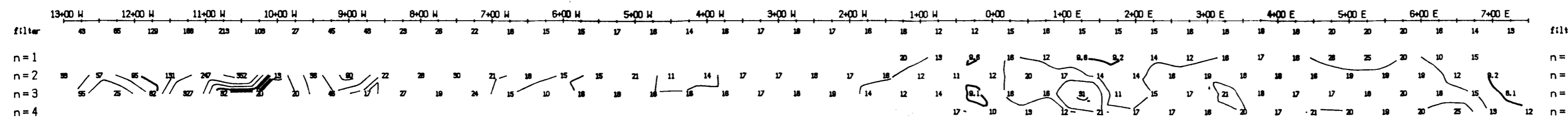
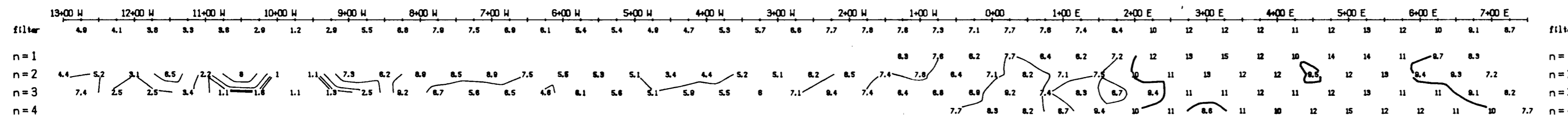
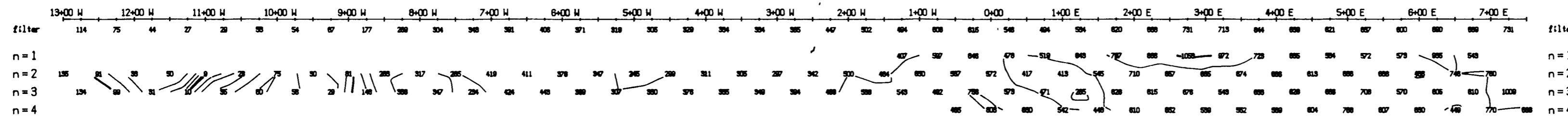
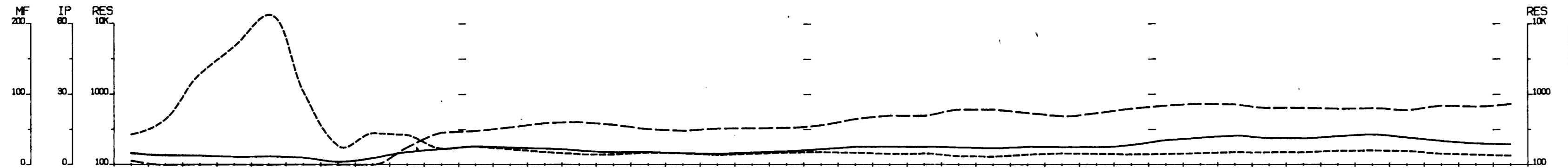
**GEOLOGICAL BRANCH
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 Fig. 24

LIBERTY GOLD CORP.

INDUCED POLARIZATION SURVEY
 TIM CLAIMS
 LAC LA HACHE, B.C.

Date: 89/12/18
 Scale: 1 : 5000
 NTS 92P/14W
 Lat 51 57' N Long 121 15' W



Filtered Profiles

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

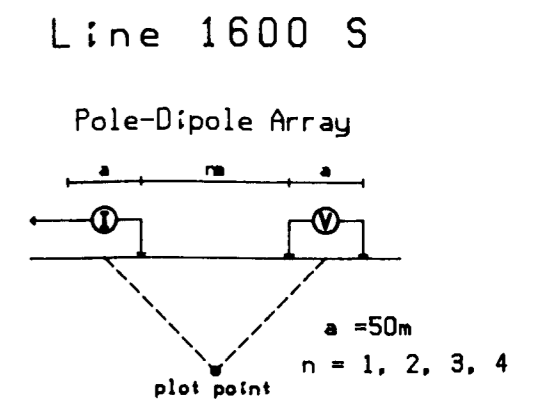
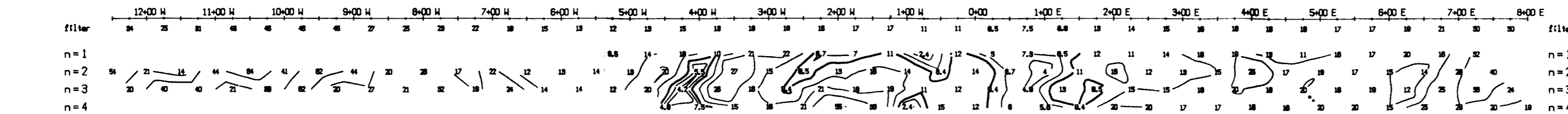
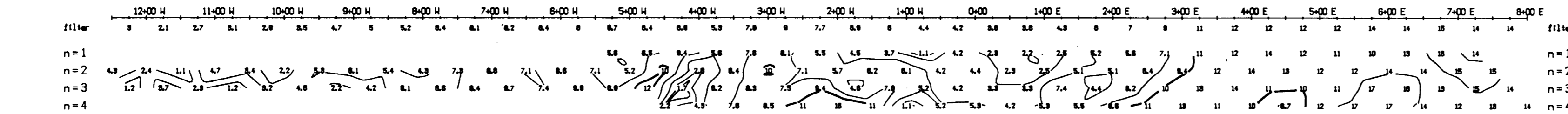
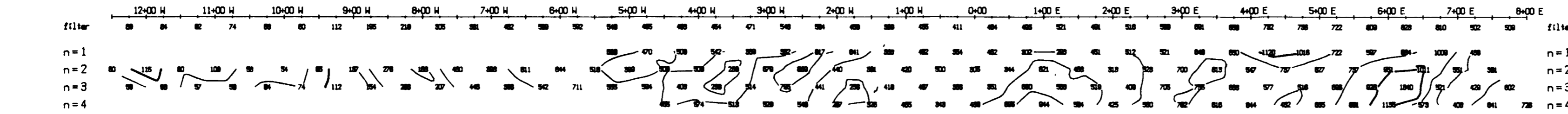
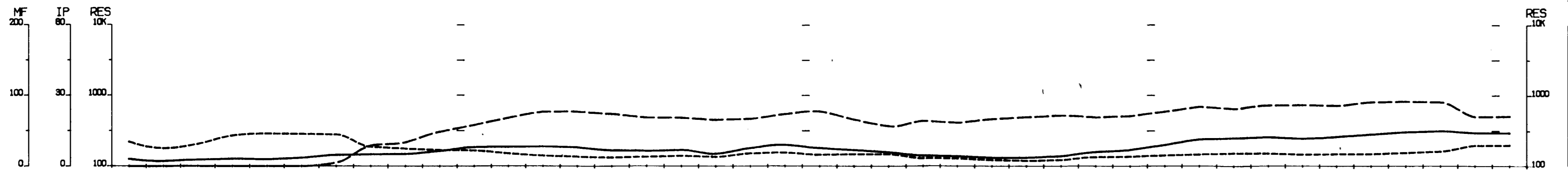
Instruments: HUNTEC MK2 & MK4 TRANSMITTERS
Frequency = 1/8 Hz
HUNTEC MK3 RECEIVER
Delay Time = 240 ms
Sample Period = 60 ms

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LIBERTY GOLD CORP.
INDUCED POLARIZATION SURVEY
TIM CLAIMS
LAC LA HACHE, B.C.

Date: 89/12/19
Scale: 1 : 5000
NTS 92P/14W
Lat 51 57' N Long 121 15' W



Filtered Profiles

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

Instruments: HUNTEC MK2 & MK4 TRANSMITTERS
 Frequency = 1/8 Hz
 HUNTEC MK3 RECEIVER
 Delay Time = 240 ms
 Sample Period = 60 ms

**GEOLOGICAL BRANCH
 ASSESSMENT REPORT**

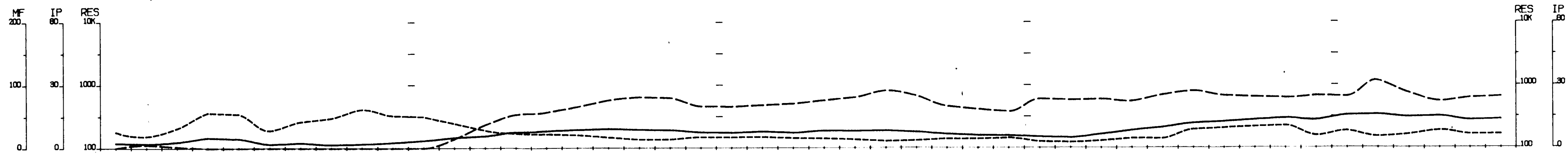
20,095
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 Fig. 26

LIBERTY GOLD CORP.

INDUCED POLARIZATION SURVEY

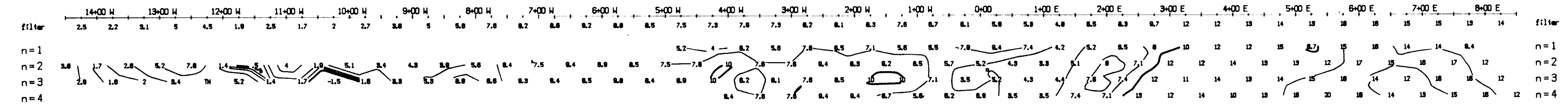
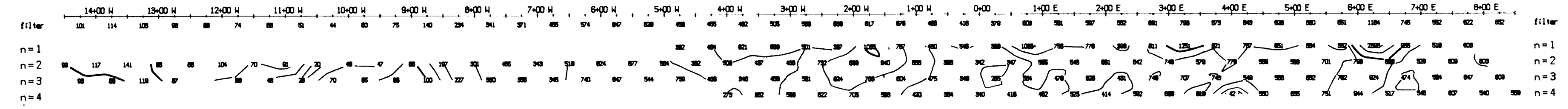
**TIM CLAIMS
 LAC LA HACHE, B.C.**

Date: 89/12/18
 Scale: 1 : 5000
 NTS 92P/14W
 Lat 51 57' N Long 121 15' W

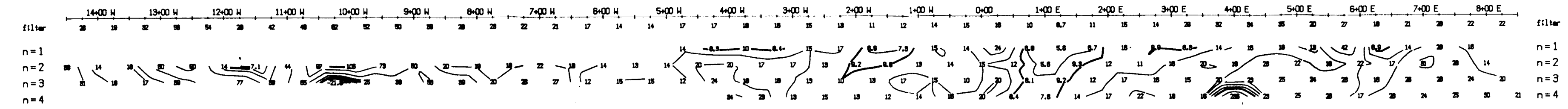


RES 10K
IP 80
MF 200

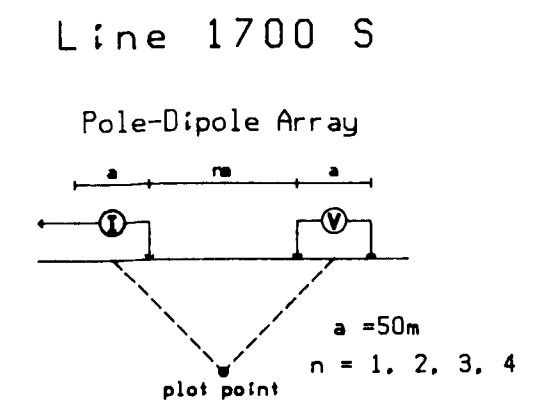
RESISTIVITY
(ohm-m)



CHARGEABILITY
(ms)



METAL FACTOR
(ip/res * 1000)



Filtered Profiles

Resistivity ----- *

Polarization ----- **

Metal Factor ----- ***

filter

Instruments: HUNTEC MK2 & MK4 TRANSMITTERS
Frequency = 1/8 Hz
HUNTEC MK3 RECEIVER
Delay Time = 240 ms
Sample Period = 60 ms

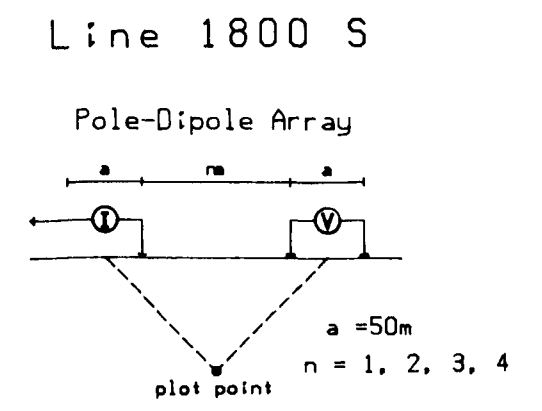
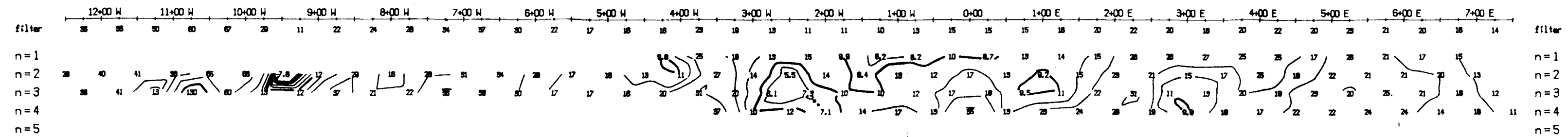
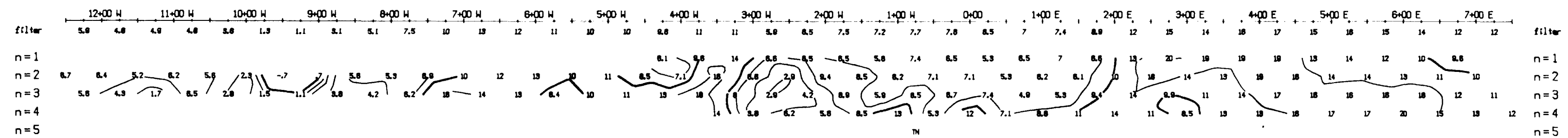
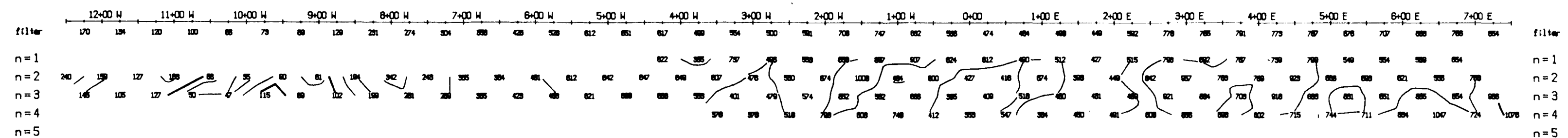
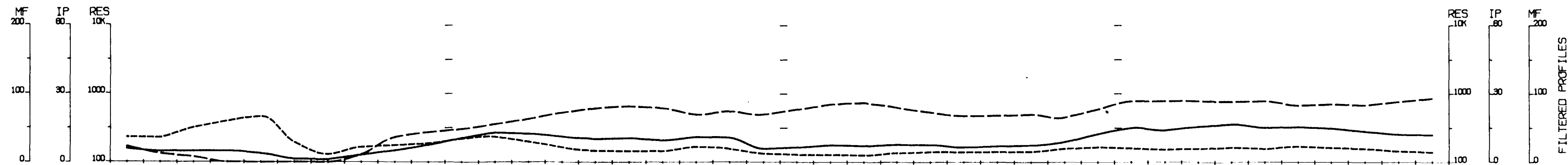
**GEOLOGICAL BRANCH
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Fig. 27

LIBERTY GOLD CORP.

INDUCED POLARIZATION SURVEY
TIM CLAIMS
LAC LA HACHE, B.C.

Date: 89/12/18
Scale: 1 : 5000
NTS 92P/14W
Lat 51 57' N Long 121 15' W



Filtered Profiles

Resistivity ——— filter *

Polarization ——— **

Metal Factor - - - - - ***

Instruments: HUNTEC MK2 & MK4 TRANSMITTERS
 Frequency = 1/8 Hz
 HUNTEC MK3 RECEIVER
 Delay Time = 240 ms
 Sample Period = 60 ms

**GEOLOGICAL BRANCH
 ASSESSMENT REPORT**

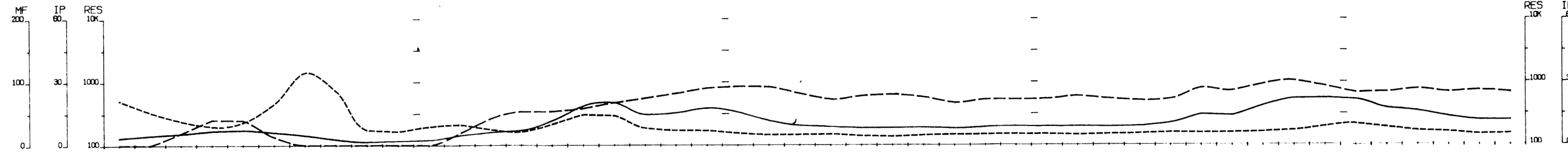
20,095
Part 1 of 2
 Fig. 28

LIBERTY GOLD CORP.

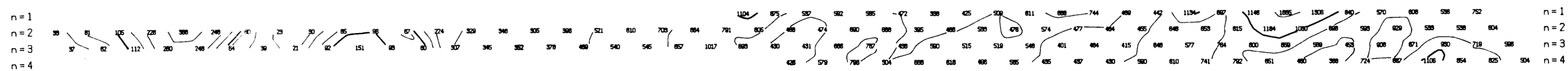
INDUCED POLARIZATION SURVEY

TIM CLAIMS
 LAC LA HACHE, B.C.

Date: 89/12/18
 Scale: 1 : 5000
 NTS 92P/14W
 Lat 51 57' N Long 121 15' W

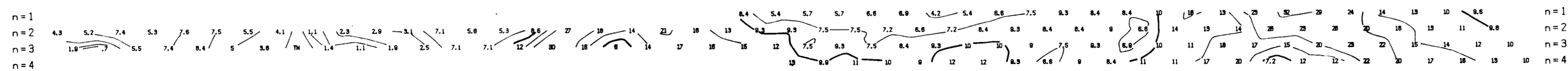


filter 54 82 155 252 248 135 42 38 73 101 95 153 280 357 348 379 484 545 652 765 842 857 852 525 595 882 595 472 598 425 500 811 888 744 488 442 1134 887 1146 1885 1308 840 570 808 538 752 filter



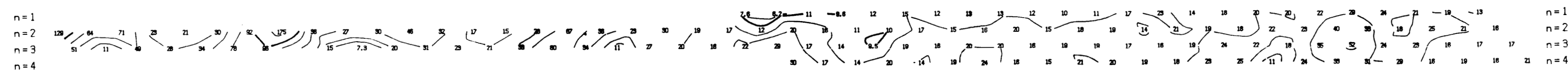
RESISTIVITY
(ohm-m)

filter 8.4 4.5 5.4 6.8 7.2 6.1 4.8 2.8 1.5 2 2.4 4.5 6 7 12 18 20 14 15 18 18 12 9.2 8.6 8 8.1 8.2 7.8 8.4 8.8 8.8 8.7 8.4 8.8 10 14 14 18 22 22 22 17 18 13 12 12 filter

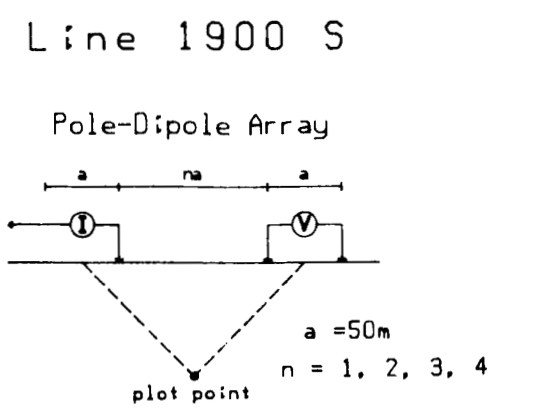


CHARGEABILITY
(ms)

filter 70 52 38 30 38 65 115 68 24 22 29 32 25 21 38 48 27 28 28 19 18 17 14 13 15 18 18 17 18 18 18 20 19 19 20 22 28 38 27 22 20 18 17 filter



METAL FACTOR
(ip/res * 1000)



Line 1900 S
Pole-Dipole Array
a = 50m
n = 1, 2, 3, 4
plot point

Filtered Profiles

Resistivity ----- *
Polarization ===== **
Metal Factor - - - - - ***

Instruments: HUNTEC MK2 & MK4 TRANSMITTERS
Frequency = 1/8 Hz
HUNTEC MK3 RECEIVER
Delay Time = 240 ms
Sample Period = 60 ms

**GEOLOGICAL BRANCH
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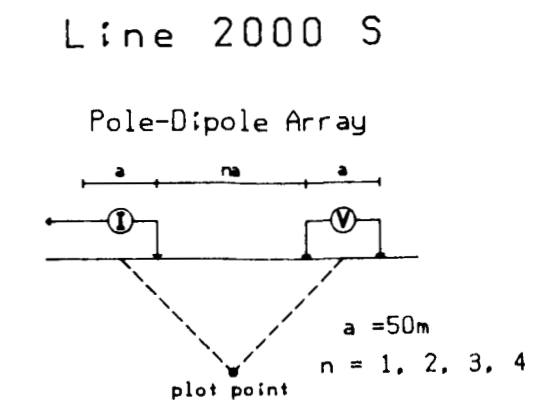
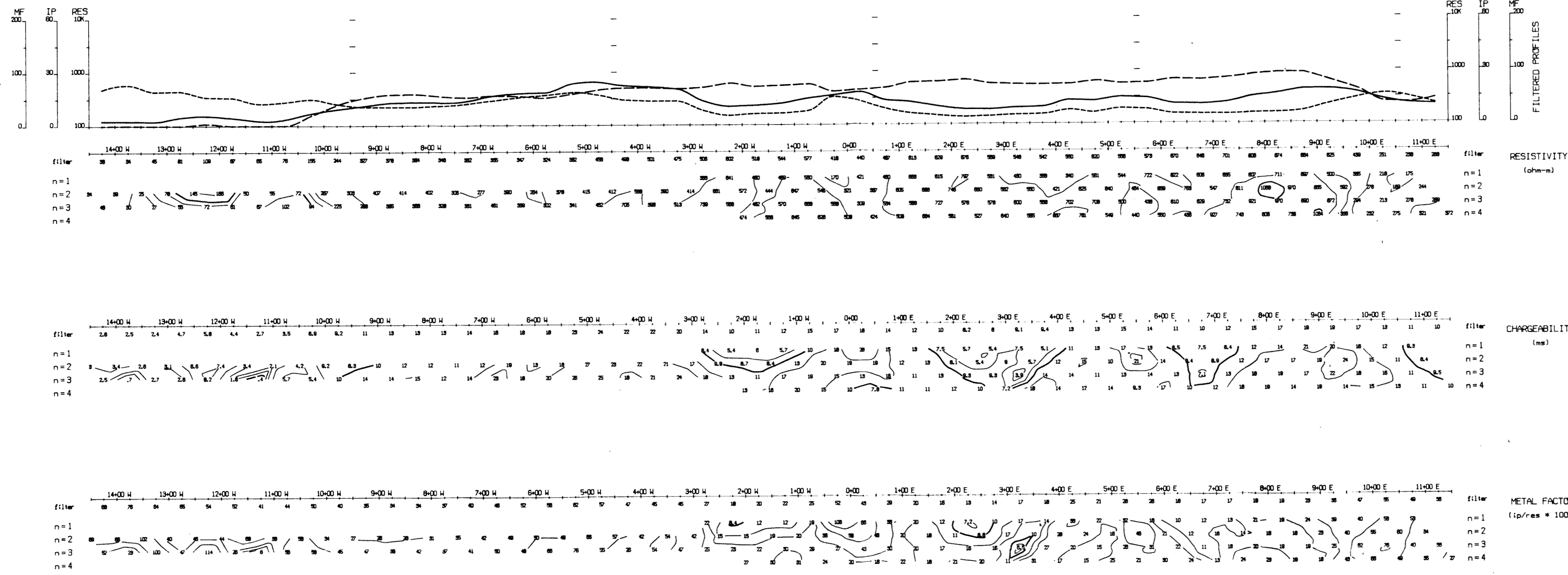
20,095
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Fig. 29

LIBERTY GOLD CORP.

INDUCED POLARIZATION SURVEY
TIM CLAIMS
LAC LA HACHE, B.C.

Date: 89/12/18
Scale: 1 : 5000
NTS 92P/14W
Lat 51 57' N Long 121 15' W



Filtered Profiles

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

Instruments: HUNTEC MK2 & MK4 TRANSMITTERS
Frequency = 1/8 Hz
HUNTEC MK3 RECEIVER
Delay Time = 240 ms
Sample Period = 60 ms

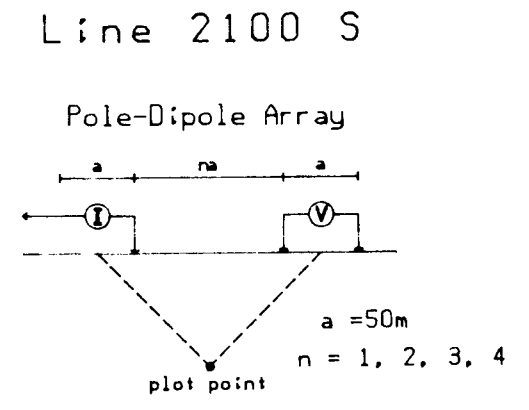
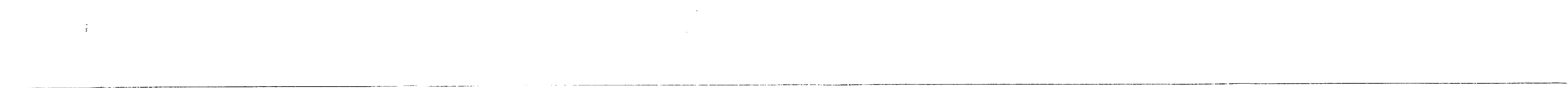
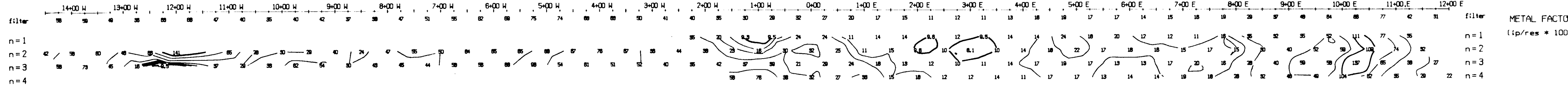
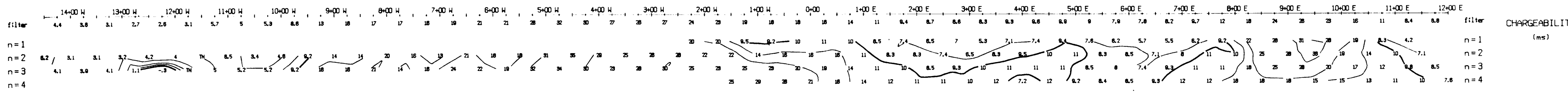
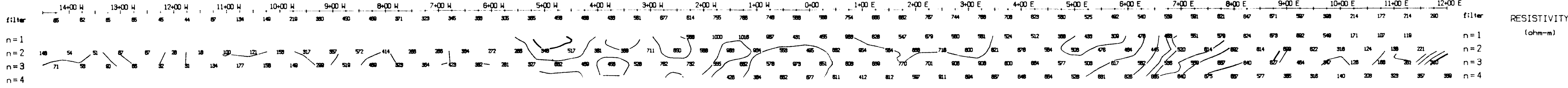
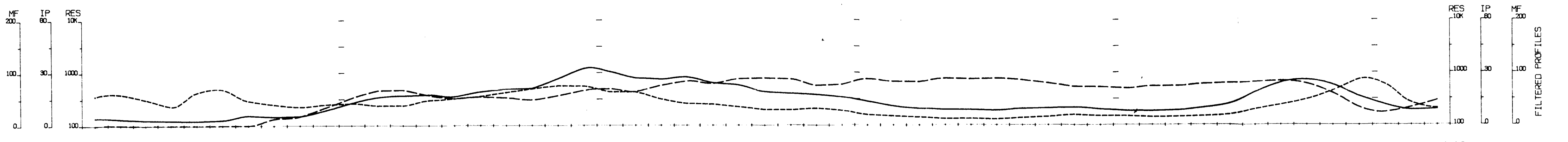
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Fig. 30

LIBERTY GOLD CORP.

INDUCED POLARIZATION SURVEY
TIM CLAIMS
LAC LA HACHE, B.C.

Date: 89/12/18
Scale: 1 : 5000
NTS 92P/14W
Lat 51 57' N Long 121 15' W



Filtered Profiles

Resistivity ——— filter *

Polarization ——— **

Metal Factor - - - - - ***

Instruments: HUNTEC MK2 & MK4 TRANSMITTERS
 Frequency = 1/8 Hz
 HUNTEC MK3 RECEIVER
 Delay Time = 240 ms
 Sample Period = 60 ms

**GEOLOGICAL BRANCH
 ASSESSMENT REPORT**

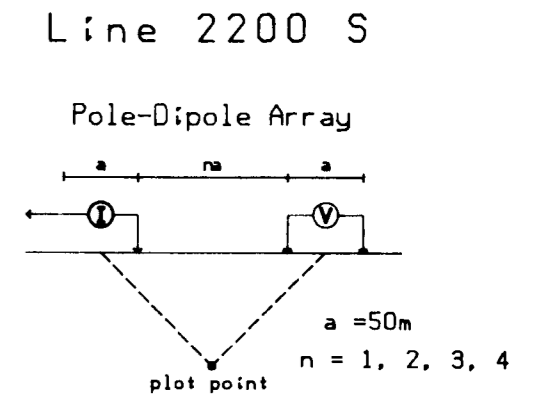
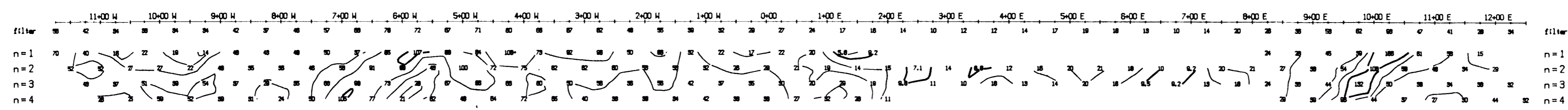
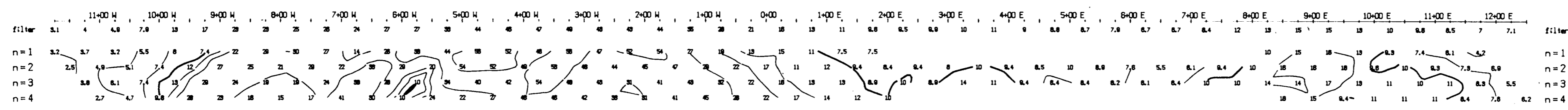
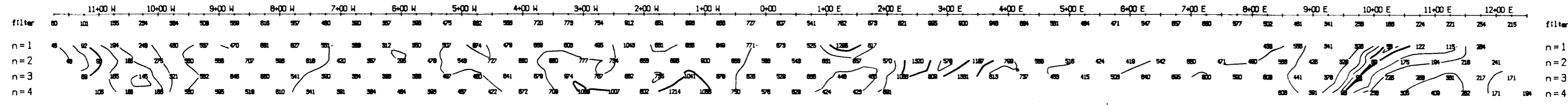
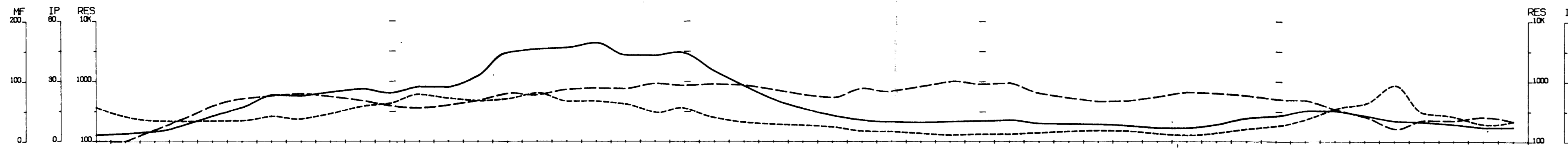
20,095
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Fig. 31

LIBERTY GOLD CORP.

INDUCED POLARIZATION SURVEY
 TIM CLAIMS
 LAC LA HACHE, B.C.

Date: 89/12/18
 Scale: 1 : 5000
 NTS 92P/14W
 Lat 51 57' N Long 121 15' W



Filtered Profiles

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

Instruments: HUNTEC MK2 & MK4 TRANSMITTERS
Frequency = 1/8 Hz
HUNTEC MK3 RECEIVER
Delay Time = 240 ms
Sample Period = 60 ms

**GEOLOGICAL BRANCH
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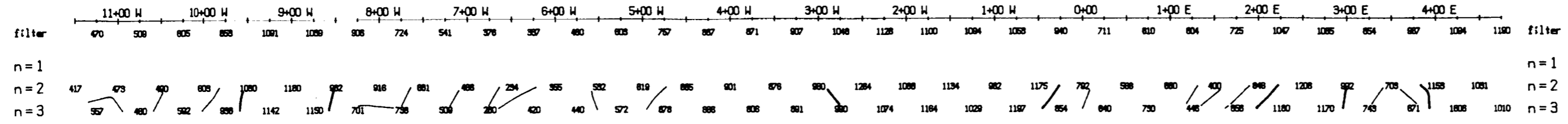
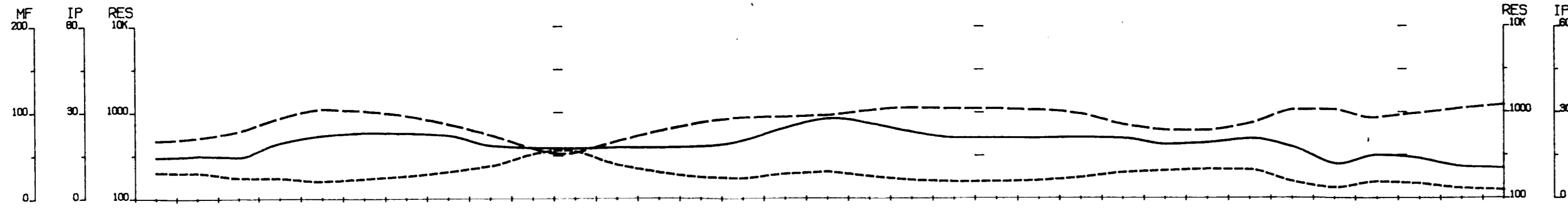
Fig. 32

LIBERTY GOLD CORP.

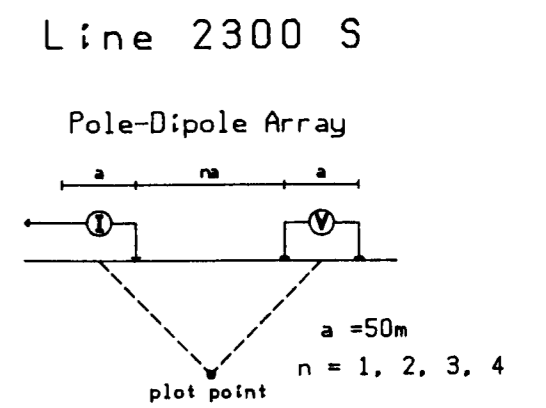
INDUCED POLARIZATION SURVEY

TIM CLAIMS
LAC LA HACHE, B.C.

Date: 89/12/18
Scale: 1 : 5000
NTS 92P/14W
Lat 51 57' N Long 121 15' W



RESISTIVITY
(ohm-m)



Line 2300 S
Pole-Dipole Array
a = 50m
n = 1, 2, 3, 4
plot point

Filtered Profiles

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

Instruments: HUNTEC MK2 & MK4 TRANSMITTERS
Frequency = 1/8 Hz
HUNTEC MK3 RECEIVER
Delay Time = 240 ms
Sample Period = 60 ms

**GEOLOGICAL BRANCH
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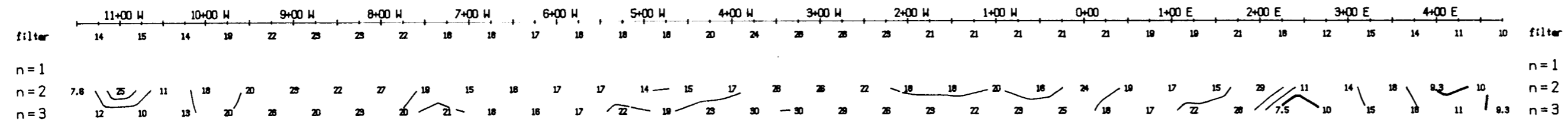
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Fig. 33

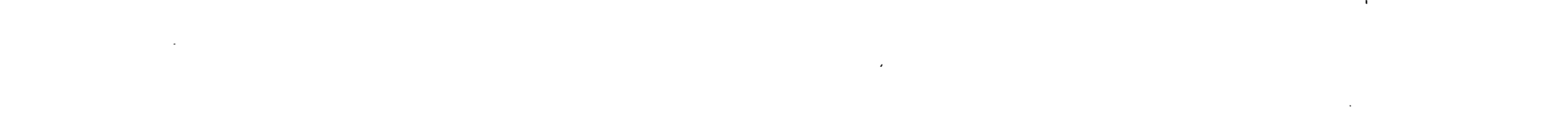
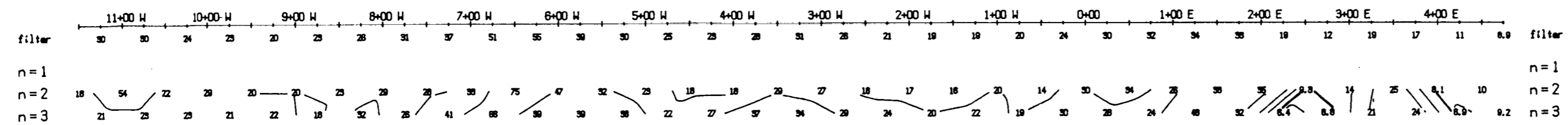
LIBERTY GOLD CORP.

INDUCED POLARIZATION SURVEY
TIM CLAIMS
LAC LA HACHE, B.C.

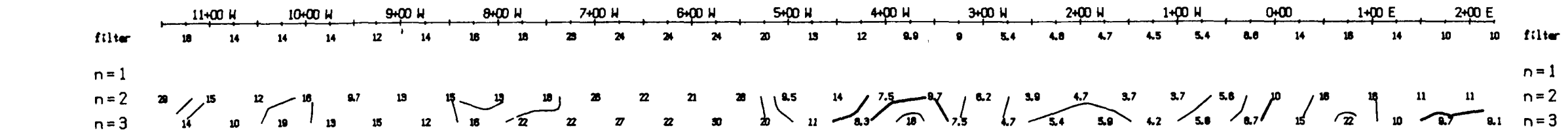
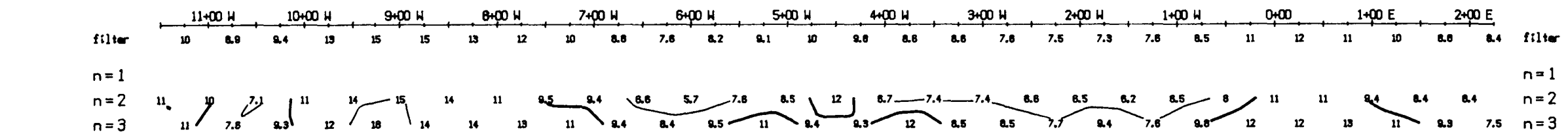
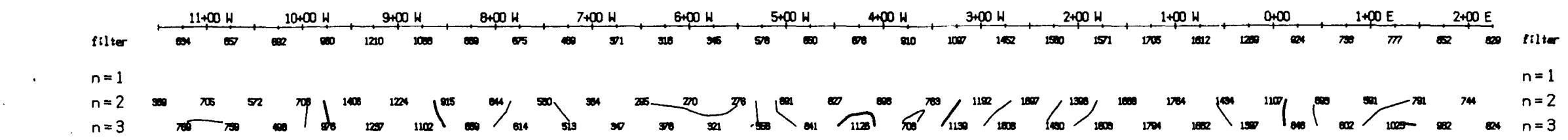
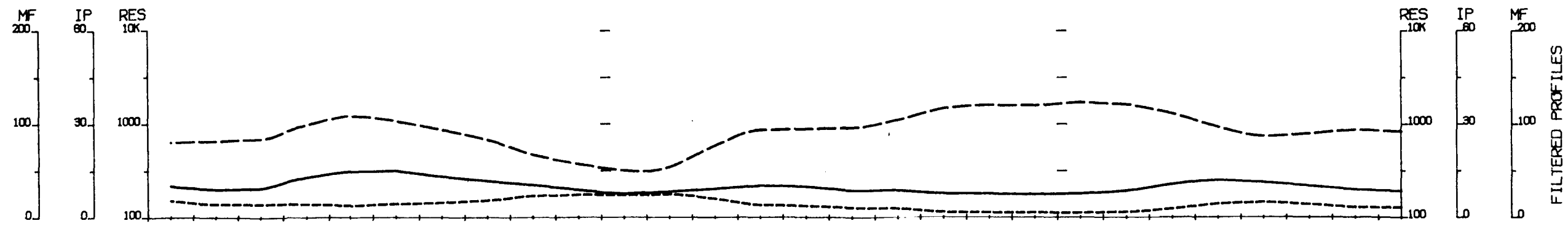
Date: 89/12/18
Scale: 1 : 5000
NTS 92P/14W
Lat 51 57' N Long 121 15' W



CHARGEABILITY
(ms)



METAL FACTOR
(ip/res * 1000)

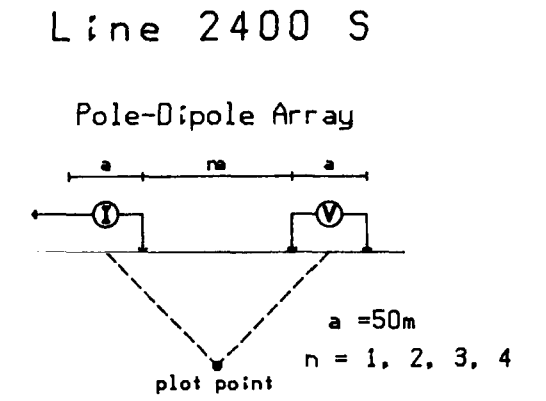


FILTERED PROFILES

RESISTIVITY
(ohm-m)

CHARGEABILITY
(ms)

METAL FACTOR
(ip/res * 1000)



Filtered Profiles

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

Instruments: HUNTEC MK2 & MK4 TRANSMITTERS
 Frequency = 1/8 Hz
 HUNTEC MK3 RECEIVER
 Delay Time = 240 ms
 Sample Period = 60 ms

**GEOLOGICAL BRANCH
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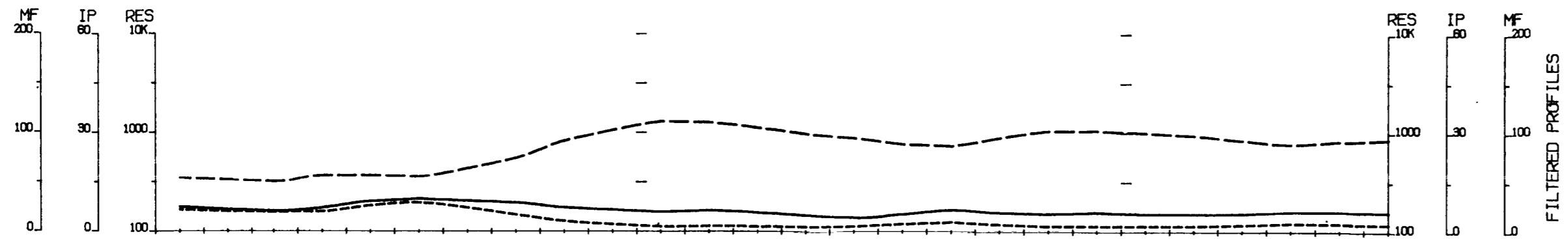
Fig. 34

LIBERTY GOLD CORP.

INDUCED POLARIZATION SURVEY

TIM CLAIMS
 LAC LA HACHE, B.C.

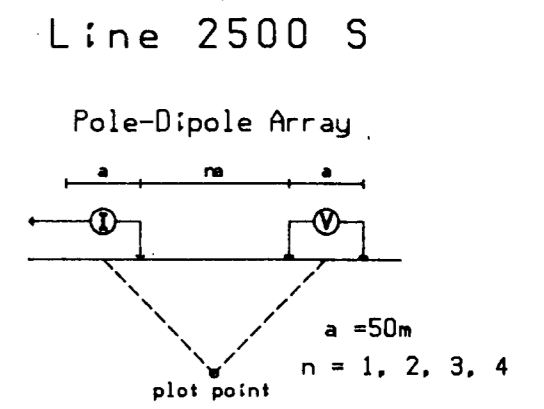
Date: 89/12/18
 Scale: 1 : 5000
 NTS 92P/14W
 Lat 51 57' N Long 121 15' W



filter	7+00 W	6+00 W	5+00 W	4+00 W	3+00 W	2+00 W	1+00 W	0+00	1+00 E	2+00 E	3+00 E	4+00 E	5+00 E	filter														
n=1	328	351	320	308	335	318	307	504	578	650	1088	1428	1101	1080	671	730	338	702	1047	1059	660	654	640	613	671	1008	n=1	
n=2	328	308	328	381	488	328	378	504	646	618	1324	1370	1361	1082	1087	675	669	636	735	1054	1215	1087	1080	904	953	573	928	n=2
n=3	328	308	328	381	488	328	378	504	646	618	1324	1370	1361	1082	1087	675	669	636	735	1054	1215	1087	1080	904	953	573	928	n=3

RESISTIVITY
(ohm-m)

FILTERED PROFILES



Filtered Profiles

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

Instruments: HUNTEC MK2 & MK4 TRANSMITTERS
 Frequency = 1/8 Hz
 HUNTEC MK3 RECEIVER
 Delay Time = 240 ms
 Sample Period = 60 ms

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

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 Fig. 35

filter	7+00 W	6+00 W	5+00 W	4+00 W	3+00 W	2+00 W	1+00 W	0+00	1+00 E	2+00 E	3+00 E	4+00 E	5+00 E	filter													
n=1	7.3	6.5	6	7	9.1	9.8	9.2	8.8	7.2	6.5	5.9	6.4	5.8	5	4.2	5.2	6.5	5.7	5.3	5.8	5.3	5.3	5.4	6.1	6.1	5.9	n=1
n=2	6.4	7.2	5.1	5.8	6.3	10	9.3	8.2	7.8	5.8	6.2	4.7	6.4	4.4	5.2	3.7	7.4	6.1	3.9	6.9	4.8	5.1	5.4	6.7	7.1	5.3	n=2
n=3	6.1	7.8	4.7	7.3	9.4	10	10	8.5	9.1	5.4	6.5	7.3	6.2	5.1	4.4	4.2	6.2	5.2	4.7	5.7	7.1	4.2	4.7	5.9	6.2	6.4	n=3

CHARGEABILITY
(ms)

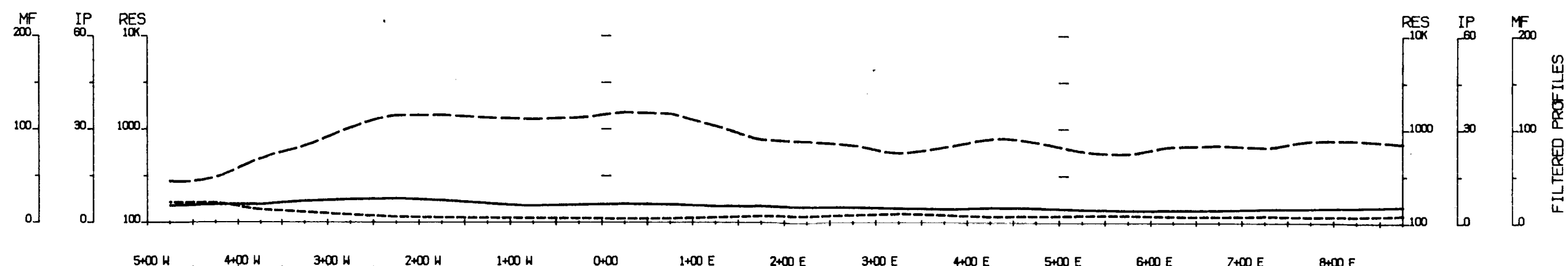
filter	7+00 W	6+00 W	5+00 W	4+00 W	3+00 W	2+00 W	1+00 W	0+00	1+00 E	2+00 E	3+00 E	4+00 E	5+00 E	filter													
n=1	21	20	19	19	28	29	24	18	10	7	4.7	5.2	5.1	5.1	4.9	7.4	9.4	6.9	5.2	5.8	5.4	5.7	6.8	8.4	7.9	7.3	n=1
n=2	20	20	18	18	28	32	30	18	13	6.1	6	3.3	5.8	4.2	6	4.9	13	12	3.7	6.5	5.6	6	6.4	6.2	6.2	5.3	n=2
n=3	21	25	14	20	20	32	27	19	15	4.1	4.7	5.4	7.6	2.9	5	4.8	7.4	6.9	4.5	4.7	6.5	4	5.2	6.6	11	6.9	n=3

METAL FACTOR
(ip/res * 1000)

LIBERTY GOLD CORP.

INDUCED POLARIZATION SURVEY
 TIM CLAIMS
 LAC LA HACHE, B.C.

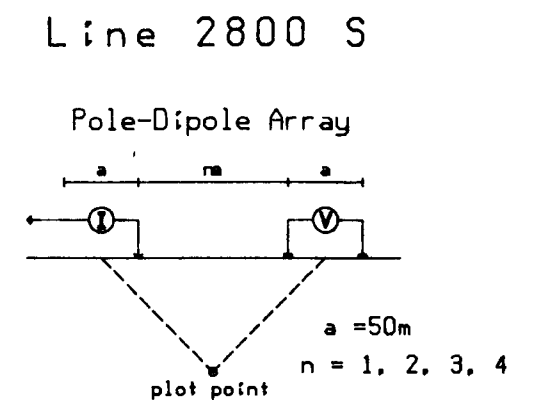
Date: 89/12/18
 Scale: 1 : 5000
 NTS 92P/14W
 Lat 51 57' N Long 121 15' W



filter	274	304	480	658	1024	1392	1404	1316	1288	1319	1515	1465	1077	770	757	882	597	839	774	717	593	598	607	665	661	744	738	700	filter	
n=1																														
n=2	294	218	294	657	677	1484	1859	1274	1285	1141	1308	1859	1329	743	871	705	487	328	654	718	808	444	672	848	459	668	708	800		
n=3	242	453	357	589	918	1398	1358	1306	1381	1245	1811	1794	944	719	888	701	500	818	679	728	597	518	732	587	629	688	784	488		

RESISTIVITY
(ohm-m)

FILTERED PROFILES



Filtered Profiles

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

Instruments: HUNTEC MK2 & MK4 TRANSMITTERS
 Frequency = 1/8 Hz
 HUNTEC MK3 RECEIVER
 Delay Time = 240 ms
 Sample Period = 60 ms

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

20,095
Part 1 of 2
 Fig. 38

filter	5.3	5.7	5.8	6.8	7.4	7.7	7.1	6.1	5.3	5.7	6	5.8	5.2	5.3	5	4.8	4.5	4.3	4.7	4.6	4.1	3.8	3.9	3.9	4.3	4.4	4.8	5.2	filter	
n=1																														
n=2	4.7	5.8	6.2	6.7	7.1	7.7	7.8	6.7	5.3	4.4	6.5	5.8	5.2	4.8	5.8	4.8	5.3	4.2	4.3	4.8	4.3	3.4	3.8	3.3	3.3	4.2	3.5	5.1		
n=3	6.7	4.4	5.5	5.8	6.6	7.7	6.7	6.5	5.8	5.3	6.7	5.7	8	4.6	6.2	3.8	3.7	5.1	4.3	5.5	4.4	3.3	4.4	5	4.3	5.2	5.3	5.2		

CHARGEABILITY
(ms)

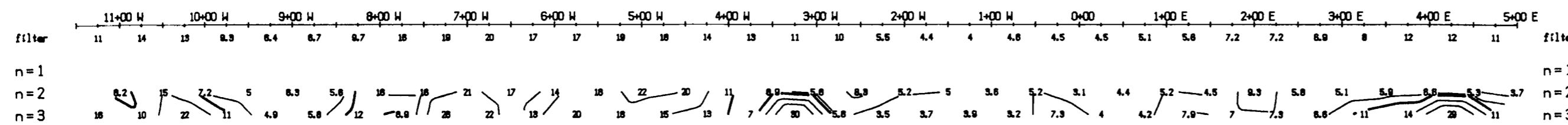
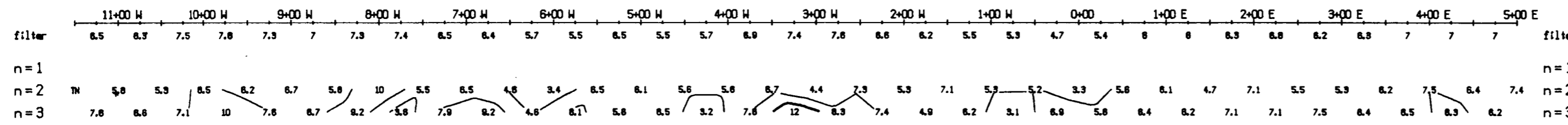
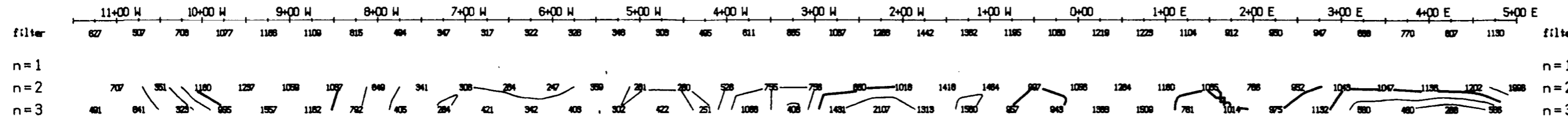
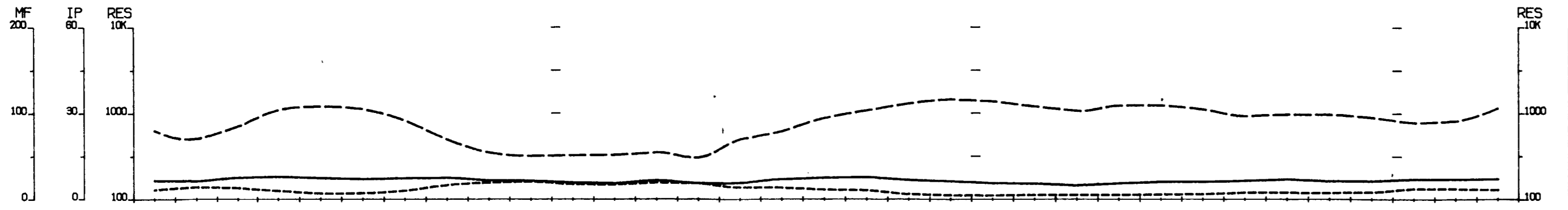
filter	21	20	14	11	8	5.8	5	4.7	4.2	4.3	4	4.2	5.3	7	6.8	7.5	9	7.8	6.2	6.8	7.2	7.3	6.4	6.2	6.8	6	6.6	7.8	filter	
n=1																														
n=2	20	28	21	9.8	10	5.2	4.8	5.3	4.1	3.9	5	3.4	3.9	6.2	6.4	6.5	11	13	6.6	6.4	7.1	7.7	8.1	3.9	7	6.8	4.4	6.4		
n=3	28	6.7	15	8.9	9.4	5.5	4.9	5	4	4.3	4.2	3.2	7.1	6.4	6.8	5.4	7	6.3	4.4	6.9	8	6.4	5.6	6.4	6.8	5.8	6.8	11		

METAL FACTOR
(ip/res * 1000)

LIBERTY GOLD CORP.

INDUCED POLARIZATION SURVEY
 TIM CLAIMS
 LAC LA HACHE, B.C.

Date: 89/12/18
 Scale: 1 : 5000
 NTS 92P/14W
 Lat 51 57' N Long 121 15' W



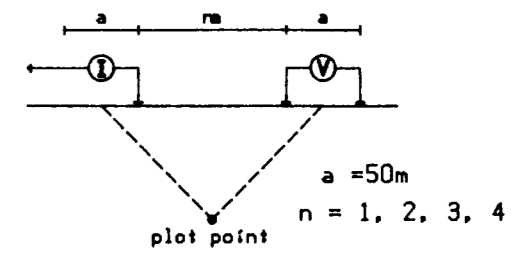
RESISTIVITY
(ohm-m)

CHARGEABILITY
(ms)

METAL FACTOR
(fp/res * 1000)

Line 2600 S

Pole-Dipole Array



Filtered Profiles

Resistivity ----- *
Polarization ===== **
Metal Factor -.-.-.-.- ***

Instruments: HUNTEC MK2 & MK4 TRANSMITTERS
Frequency = 1/8 Hz
HUNTEC MK3 RECEIVER
Delay Time = 240 ms
Sample Period = 60 ms

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

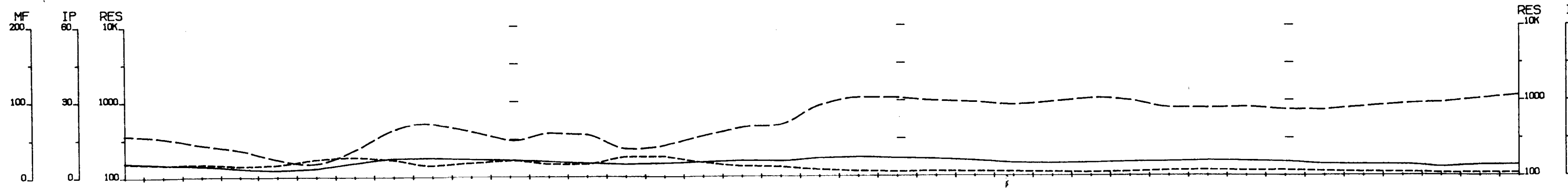
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Part 1 of 2

Fig. 36

LIBERTY GOLD CORP.

INDUCED POLARIZATION SURVEY
TIM CLAIMS
LAC LA HACHE, B.C.

Date: 89/12/18
Scale: 1 : 5000
NTS 92P/14W
Lat 51 57' N Long 121 15' W



filter	386	385	279	282	174	158	282	427	512	411	512	388	388	288	284	348	451	467	672	1117	1107	1008	982	887	985	1079	1008	807	788	828	782	755	882	804	944	1070	1184	filter		
n=1																																								
n=2	514	278	282	144	168	177	382	657	524	281	275	35	158	155	181	466	408	582	1942	1188	885	948	651	851	780	878	788	617	822	788	614	713	888	821	782	895				
n=3	388	188	510	308	128	140	130	513	580	400	288	370	448	388	181	588	378	478	613	1288	1088	1157	1008	827	1128	1578	1108	788	821	811	788	614	713	888	821	782	895			

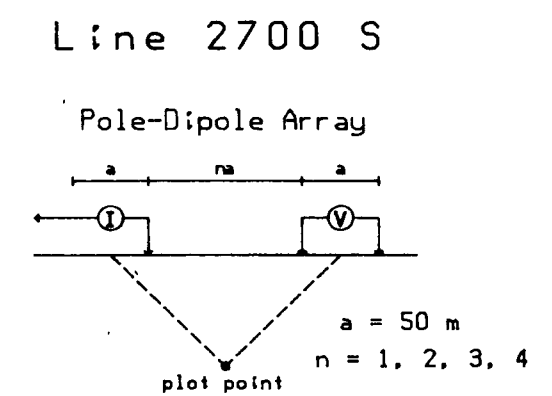
MF
200
100
0

IP
60
30
0

RES
1000
100
0

FILTERED PROFILES

RESISTIVITY
(ohm-m)



Filtered Profiles

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

Instruments: HUNTEC MK2 & MK4 TRANSMITTERS
Frequency = 1/8 Hz
HUNTEC MK3 RECEIVER
Delay Time = 240 ms
Sample Period = 60 ms

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

20,095
Part 1 of 2
Fig. 37

filter	6.1	5.3	4.6	3.5	2.9	3.6	5.8	7.7	7.8	7.3	7	6.4	5.6	5.1	5.8	8	6.5	6.3	7.4	7.8	7.4	7	6.3	5.3	5.2	5.4	5.7	5.9	6.2	6.1	5.8	4.9	4.7	4.6	3.8	4.4	4.4	filter	
n=1																																							
n=2	6.5	4.7	5.2	3.2	3.3	4.2	7.5	8.5	7.8	7.1	5.5	6.5	4.2	6.8	5.8	7.1	6.2	6.8	9.4	7.8	7.1	7.1	5.3	4.9	4.7	5.3	5.3	6.1	6.1	6.5	5.1	3.5	6	3.3	3.4	4.7			
n=3	6.2	5.3	3.4	3.8	1.1	2.5	7	7.5	7.4	7.5	7.1	6.2	5.3	4.3	4.2	6.5	6.2	6.2	6.5	7.7	7.1	7.8	6.2	5.3	5.3	6.2	5.7	6.2	6.3	6.5	5.1	8	5.3	2.8	6	3.2	5.2		

CHARGEABILITY
(ms)

filter	20	18	18	15	17	24	27	24	18	20	28	18	18	27	28	20	14	18	8.6	7.3	6.7	7	6.5	6.2	5.8	5.2	8	7.8	8	7.4	7.7	6.8	5.8	5.1	3.8	4.3	3.8	filter	
n=1																																							
n=2	18	17	18	22	20	24	21	13	14	27	20	12	27	51	28	15	15	12	7	8.5	7.4	7.5	6.2	7.4	8	5.4	7.2	8.8	7.4	6.4	6.3	4.9	6.9	4	4.3	5.2			
n=3	18	51	11	13	8.5	18	54	24	12	19	24	22	12	12	22	12	18	13	11	6	6.8	6.7	6.2	5.7	4.7	3.8	5.2	7.8	6.8	7.1	6.8	7.2	5.8	3.1	5.4	2.4	3.5		

METAL FACTOR
(ip/res * 1000)

LIBERTY GOLD CORP.

INDUCED POLARIZATION SURVEY
TIM CLAIMS
LAC LA HACHE, B.C.

Date: 89/12/19
Scale: 1 : 5000
NTS 92P/14W
Lat 51 57' N Long 121 15' W