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HERA RESOURCES INC.
Geophysical Report
on the Rey Lake Property
Nicola Mining Division, British Columbia
N. Latitude: 50° 20' W. Longitude: 120° 42'
NTS 921/7E
by Marvin Falk, B.Sc.
Dated April 19, 1993
S ED
Strato Geological Engineering Ltd. 3566 King George Highway Surrey, B.C. V4P 1B5
Surrey, B.C. V4P 1B5
GEOLOGICAL BRANCH
ASSESSMENT REPORT
220000

STRATO GEOLOGICAL ENGINEERING LTD.

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1.0 INTRODUCTION

This report describes an Induced Polarization/Resistivity program performed by Strato Geological Engineering Ltd. for Hera Resources Inc. between February 15 and April 9, 1993 on a property in the Rey Lake area north of Merritt, B.C.

The program's goal was to delineate and detail the extent of previous known anomalies and to investigate for additional geophysical anomalies. Information from this work will be used in part to assist in drill hole site selection for the next phase of exploration.

1.1 Property and Ownership

The property was staked by Mr. William F. Petrie of Merritt when the claim area became open over the period 1988-1990.

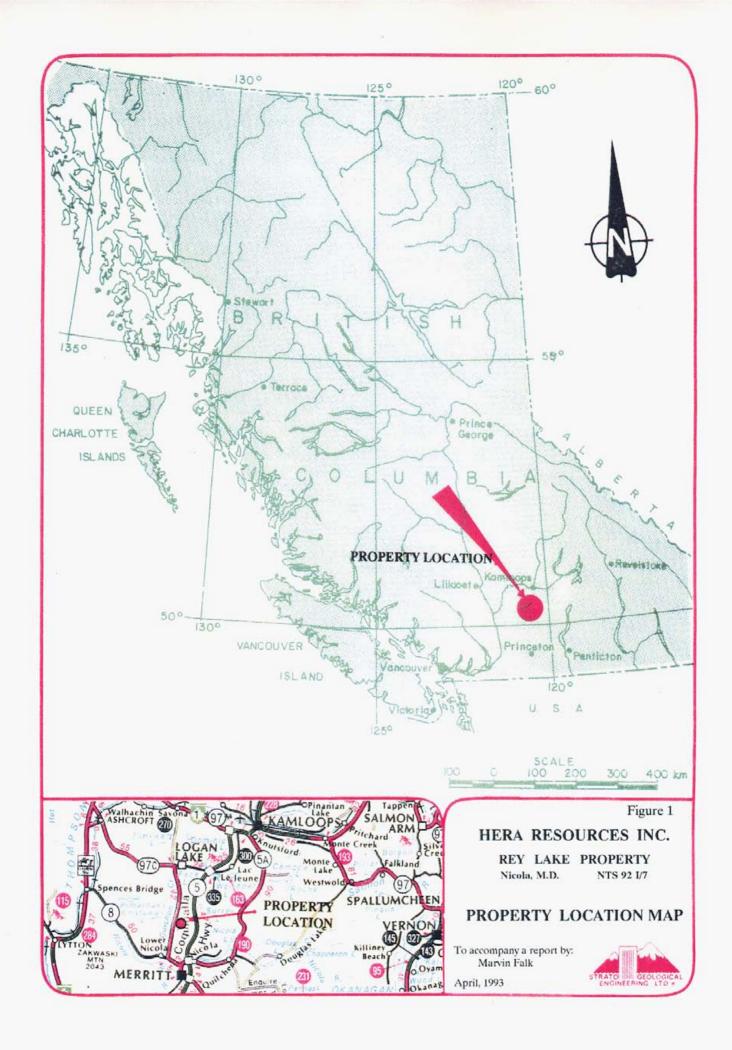
An option was subsequently entered into with Hera Resources Inc. to further explore the claim holdings.

		Record	Expiry
Claim Name	Units	Number	Date
Blue Jay	20	237536	June 4, 1993
Blue Jay 1	2	237657	August 10, 1993
Blue Jay 2	4	237558	August 9, 1993
Blue Jay 3	16	237559	August 9, 1993
Blue Jay 4	20	237560	August 10, 1993
Blue Jay 5	4	237561	August 11, 1993
Blue Jay 6	6	306336	November 15, 1993
Blue Jay 7	12	310104	June 14, 1993
Lucky Mike	12	237094	April 16, 1995
Old Alameada 8	1	236952	January 23, 1995
Old Alameada 9	1	236953	January 23, 1995
Old Alameada	1	236954	January 23, 1995
Old Alameada 1	1	236955	January 23, 1995

1

The 100 claim units are as follows:





1.2 Location, Access and Physiography

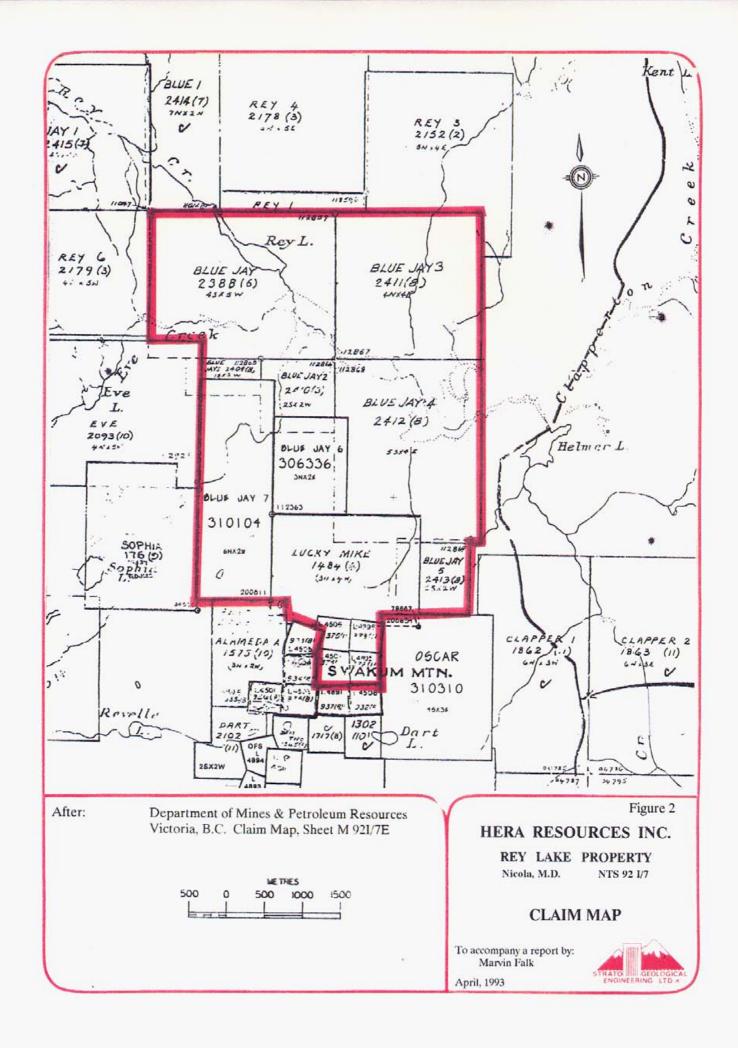
The Blue Jay property is located in gently rolling hills between Highway 97C and the Coquihalla Highway approximately 26 kilometers north of Merritt. Rey Lake, at the northern end of the property, is located at Latitude 50° 20'N, Longitude 120° 42'W, on the 92-1/7E map sheet.

Access by vehicle is from Merritt west over Highway 8/97C approximately 5 kilometers west-northwest to the Logan Lake turnoff on 97C. From there it is 28 kilometers north on 97C to the Rey Lake road. The Rey Lake road continues as a dirt 2-wheel drive road 7.5 kilometers eastsoutheast where it forks. The right fork was used during this program. It continues another 5 kilometers to the southeast and provides access to portions of the Blue Jay, Blue Jay 1, and Blue Jay 2 claims. Short logging spurs provide additional access. A 4-wheel drive is recommended for this area because of local washouts and mud holes.

The left fork at 7.5 kilometers continues east 8 kilometers across the Blue Jay and Blue Jay 3 claims to Helmer Lake. From Helmer Lake, good active logging roads and spurs provide access to the Blue Jay 4, Blue Jay 5, Lucky Mike and the Alameda claims. The Helmer Lake logging road continues southerly as the Swakum Mountain Road 34 kilometers to Merritt.

The claims vary in elevation from 1,220 meters on the north to 1,723 meters at Swakum Mountain on the south. The claims are mostly covered with pine and spruce forest that has been approximately 40 per cent logged in the last 20 years. A belt one kilometer wide trending from the northwest to the southeast from Rey Lake to Helmer Lake is covered by lakes, marshes and swamps. Additional small bogs and swamps are common in the forested areas on the remainder of the property.





1.3 History of the Property

Exploration of the claim area has been in progress since the early 1900's with most work centered on the Swakum Mountain mineral occurrences of scheelite, galena, sphalerite and chalcopyrite.

Asarco conducted the most extensive investigation of the Rey Lake porphyry copper mineralization over the years 1972-73 with a program of geophysics and drilling of 86 percussion holes and 17 diamond drill holes around Rey Lake to test several geophysical anomalies. Subsequently, Craigmont Mines Ltd. drilled 10 diamond drill holes in 1974-75 to test mineral potential beneath Rey Lake and the swamp areas. Later, Tracer Resources Corp. and International Santana Ltd. held brief options on the claims. The claims were dropped and were re-staked by William Petrie over the years 1988-1990.

In July, 1991 a preliminary I.P. program was carried out by Strato Geological Engineering Ltd. for Hera Resources Inc.



2.0 GEOLOGY

Bedrock exposures on the Blue Jay claims are rare (< 0.1%) and usually less than 10 meters in diameter. Triassic age Nicola Group intermediate to mafic composition volcanics and volcanoclastics are most common, although a biotite quartz monzonite stock of 67 m.y. age is found in drill core and outcrop north and southeast of Rey Lake.

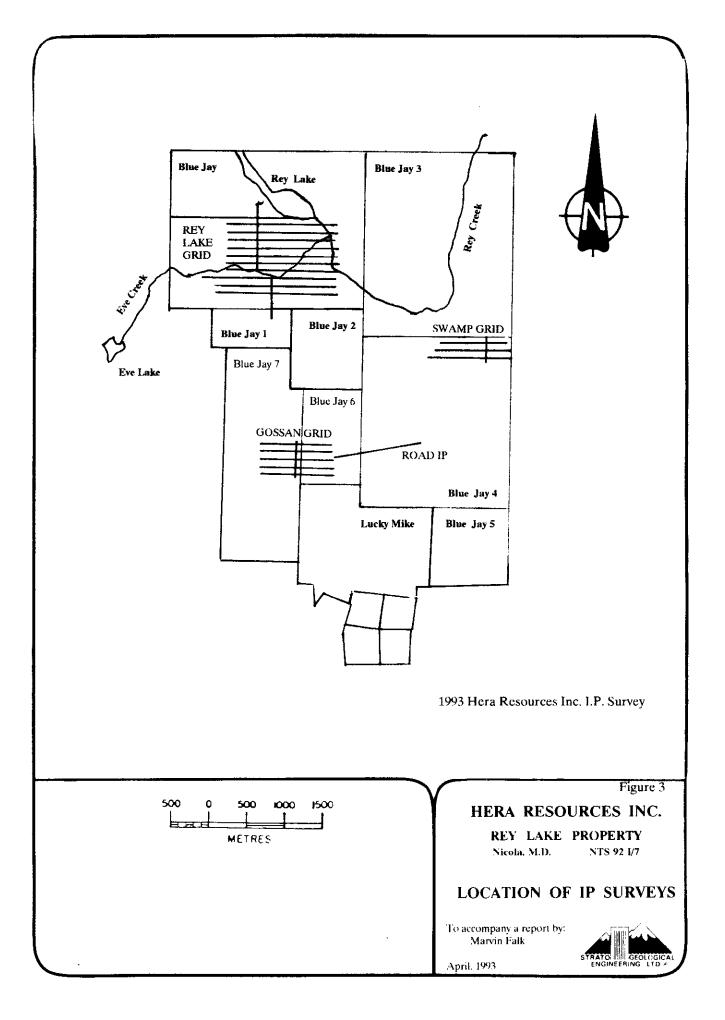
Mineralization found on the Blue Jay claims occurs as disseminations, stockwork veinlets and skarns in the Nicola Group rocks near the quartz monzonite stock. The primarily sulfide present is pyrite, but significant copper and molybdenum values also occur. This mineralization was the target of the IP/Resistivity survey.

3.0 GEOPHYSICS

A total of 27 kilometers of Induced Polarization (I.P.)/Resistivity survey was conducted over three survey grids and one road survey. A total of 4.9 km of the survey was conducted with a dipole spacing of 100 meters while the rest was conducted with a fifty meter dipole spacing. All grid survey lines run east-west with line spacing of 100 meters within each grid area. The location of the I.P. surveys is shown in Figure 3.

The survey used the 7.5 KW Huntec Mark IV transmitter system and the Huntec Mark IV receiver. The electrode configuration was a dipole-dipole type. Time domain I.P. measurements were made, so chargeability and apparent resistivity values were obtained for values of n=1 to 6, in general. Also an adjusted metal factor value was calculated for each survey point for most of the survey lines. The metal factor value was obtained by multiplying the chargeability (M) value by the apparent resistivity (pa) value and dividing the product by one hundred. The metal factor value accounts for the fact that the I.P. effect varies with the effective resistivity of the host rock. All of the values are displayed on pseudo-section plots of each survey line. Also, the chargeability and metal factor measurements for n=3 are shown in contoured plot-plan format for each of the three grid areas.





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3.1 Rey Lake Grid

The Rey Lake grid consists of 11 east-west survey lines varying from 1.5 to 1.8 km in length. A total of 4.9 km of I.P. survey using 100 m dipoles was conducted on the three most northerly lines. The rest of the I.P. survey on this grid was conducted using 50 m dipoles (12.95 km).

The plot-plan maps display the I.P. anomalies in the most obvious manner. For anomalous values of chargeability (> 25 msec) the anomaly shown is very large, being anywhere from 500 m to 900 m wide extending across all survey lines. The anomaly extends both to the north and to the south, diminishing in value to the south. The highest values of chargeability (> 100 msec), which are in the northern part of the grid, may be associated with a fault. A smaller anomaly on lines 51+ 00N and 52+ 00N at about 42+ 00E is shown to be growing in strength to the south.

The plot-plan map of metal factor again displays a large anomalous area (> 75) roughly corresponding with the chargeability anomaly. Here, though, the values seem to be decreasing to the north and remain strong in the south. The smaller anomaly at 42+00E is increasing to the south.

There is obviously a large target area for potential drill sites on the Rey Lake grid. The areas with the highest values of chargeability and/or metal factor present the best potential targets (for example between 49+ 00E and 50+ 00E on line 54+ 00N).



3.2 Swamp Grid

A total of 3.1 km of I.P. survey, using 50 meter dipoles, was conducted on three east-west lines on the Swamp grid. The plot-plan maps for both chargeability and metal factor indicate two main anomalous zones. One zone crosses the three lines at approximately 74+ 00E and the other zone exists at 70+ 00E and extends east off the survey area.



3.3 Gossan Grid

A total of 4.9 km of I.P. survey, using 50 meter dipoles was conducted along five east-west lines on the Gossan grid. The main feature is an anomaly centered along the baseline 50+00E between line 29+00N and line 30+00N. This anomaly displays both high metal factor (> 700) and high chargeability (> 50 msec) values. At surface it corresponds to pyrite mineralized rock.



3.4 Road I.P. Line

A survey was conducted east from the Gossan grid along the access road. The 50 meter dipole survey extended for 1150 m along the road.

The main feature is an area of higher chargeability (> 25 msec), high apparent resistivity (> 1000 ohm-meter) and high metal factor (> 300) near the end of the survey line. This may correspond with a zone of jasperoid found in this area.



4.0 SUMMARY

The I.P./Resistivity survey was successful in defining the large anomaly on the Rey Lake grid and shows that this anomaly extends both to the north and to the south. A smaller anomaly at 42+ 00E is shown to be growing to the south.

The main anomaly centered along the baseline of the Gossan grid is new and is associated with mineralized rock.

Smaller anomalies were identified on the Swamp grid and the main anomaly on the Road I.P. line corresponds with a zone of jasperoid.

This type of survey is an effective tool for mineral exploration on this property and is recommended for further detail or reconnaissance work.

Respectfully Submitted Strato Geological Engineering Ltd.

Marvin Falk, B.Sc. Geophysicist April 19, 1993.



5.0 CERTIFICATE

I, Marvin E. Falk, of 6633 Yew Street, of the city of Vancouver, Province of British Columbia, hereby certify that:

- 1. I graduated in 1986 from the University of Alberta with a Bachelor of Science degree in Geophysics.
- 2. I am employed as a Geophysicist by Strato Geological Engineering Ltd., with offices at 3566 King George Highway, Surrey, B.C.
- 3. I have practiced my profession as Geophysicist since 1987.
- 4. This report is based on field examinations I performed on the property during February 15 to April 9, 1993.
- 5. I have no shares or other interest, beneficial or otherwise, director or indirect in Hera Resources Inc. or Strato Geological Engineering Ltd. I have no interest direct or indirect, beneficial or otherwise in the Blue Jay Property.

Dated at Surrey, Province of British Columbia, this 19th day of April, 1993.

Falk

Marvin Falk Geophysicist



862 895 1112 709 418 636 368 675 1508 1636 615 730 1052 962 844 544 823 1392 726 461 455 302 388 2119 1250 832 913 i_{28} i_{60} i_{312} i_{000} i_{38} i_{01} i_{10} i_{54} i_{07} i_{69} i_{274} i_{355} i_{591} i_{15} i_{445} i_{38} i_{415} i_{435} i_{41} i_{03} i_{05} i_{777} i_{17} i_{07} i_{052} i_{337} i_{1372} i_{052} i_{394} i_{777} i_{611} i_{190} i_{38} i_{01} i_{464} i_{09} i_{11} i_{297} i_{351} i_{2477} i_{136} sing 1312 1000 638 504 1591 1331 Pa - APPARENT RESISTIVITY (ohm-meter)

55 East

55 East

7.3 4.2 12 \$ 19 21 24 18 8.2 3.6 26/ ii 13 27 4.6 M - CHARGEABILITY (msec) 55 East 274 85 10R 219/ 318 200 GEOLOGICAL BRANCH ASSESSMENT REPORT 343 263 3.22 M2 Figure 4 HERA RESOURCES TNC. Scale 1:5000 **REY LAKE PROPERTY** NTS 92 1-7E Nicola Mining Division, B.C. 400 meters Line 27 + 00N Pseudo Section P. CONTOURS : 100, 200, 300, 500, 1000 **Gossan Grid** M CONTOURS: 25 To accompany a report by: $\mathcal{M}\mathcal{F}$, M. Falk, Geophysicist MF CONTOURS: 100, 200 Date: April 1993 Drawn By: MF

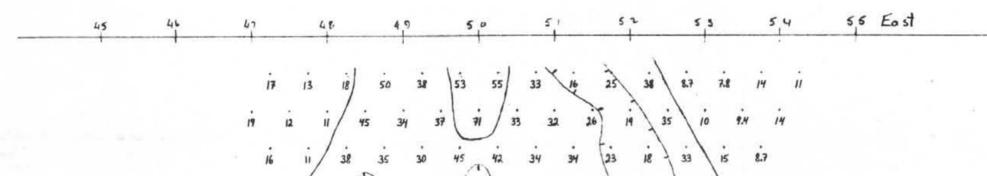
NOTES INSTRUMENTS I HUNTEC MARK IN TIME DOMAIN : FREQUENCY = V8 Sec TIME DELAY = 200 msec INTEGRATION INTERVAL = 10 × 150 msec TRANSMITTER POWER : 7.5 kW APPARENT RESISTIVITY : Pa = Tran(n+1).n+2)(V/I) a: spacing = 50 meters DIPOLE - DIPOLE ARRAY

ELECTRODE CONFIGURATION

Plotting Point

Pa - APPARENT RESISTIVITY (ohm-meter)

55 East



42 > 28 23 35 27 36 11 48 38 23 28 21 35 45 14 21 27 27 41 27 34 28 28 36 29 26 17

M - CHARGEABILITY (msec)

55 East 53 54 45 286 600 538 225/ 32 156 (442) IIB 10 92 75 874 225 200 108 232 398 179 104 116 163 167 150 98 25) 156 10 . GEOLOGICAL BRANCH 118 217 277 219 309 23 100 129 85 278 477 307 182 ASSESSMENT REPORT 200 76 315 165/ 275 342 / 129 221 184 202 85 215 258 224 13 133 145 233 304 331 209 242 330 84 260 96 98 266 /170 280 75 / 162 117 105 260 266 267 / 133 268 172 Figure 5 MF-METAL FACTOR Scale 1:5000 INSTRUMENTS ! HUNTEC MARK I HERA RESOURCES INC. (chm-meter-msec) TIME DOMAIN : FREQUENCY = Y& Sec TIME DELAY = 200 msec -Tone 400 meters **REY LAKE PROPERTY** 300 50 100 200 INTEGRATION INTERVAL = 10 x 150 msec Nicola Mining Division, B.C. NTS 92 1-7E TRANSMITTER POWER : 7.5 KW P. CONTOURS : 100, 200, 300, 500, 1000 APPARENT RESISTIVITY: Pa=TTan(n+1)(n+2)(V/I) Line 28 + 00N Pseudo Section a: spacing = 50 meters M CONTOURS: 25,50 **Gossan Grid** MF CONTOURS: 100, 200, 400 DIPOLE - DIPOLE ARRAY M.7. To accompany a report by: M. Falk, Geophysicist ELECTRODE CONFIGURATION Drawn By: MF Date: April 1993 Plotting Point

45 46 47 48 49 50 51 52 53 54 East

657 403 1058 470 1251 636 /1152 407 1268 405 1067 943 1389 625 930 416 799 655 715 /1150 614 818 502 663 609 910 765 1216 400 952 575 1671 604 1045 445 881 418 867 877 1098 1100 \$370 Bis 1078 794 917 689 739 569 615 1083 054 1367 308 (1570 529 1163 596 942 499 931 873 929 981 1776 729 650 753 842 918 634 714

Pa - APPARENT RESISTIVITY (ohm-meter) Line 2900 N

47 48 49 50 5' 52 53 50

10 83 24 43 50 44 49 30 30 22 18 10 93

10 18 57 19 36 26 10 17 22/ 55 48 22 28 30 24 is 27 20 42 33 47 36 37 22 17 24 17 17 38 37 19 16

M - CHARGEABILITY (msec)

45 46 47 AB 49 50 51 52 53 54

202 625 243 195 159 181 89 192 94 127 254 151 301 273/798 350 294 131 166 146 91 ist get /int, 10 / 332 \$ 502 98 242 125 408 104 172/1020/262 431 280 146 176 166 131/ 220 444 164 256 215 320 110 270 206 342 355 34 487 342 363 337 175 143 128 143 349 235 114 148

METAL FACTOR (ohm - meter - msec) MF

NOTES INSTRUMENTS ! HUNTEC MARK I TIME DOMAIN : FREQUENCY = Yg sec TIME DELAY= 200 msec 50 INTEGRATION INTERVAL = 10 x 150 msec TRANSMITTER POWER : 7.5 KW APPARENT RESISTIVITY: Pa= TTan (n+1), n+2) (V/I) a: spacing = 50 meters DIPOLE - DIPOLE ARRAY ELECTRODE CONFIGURATION

Plotting Point

Scale 1:5000 50 100 200 300 400 meters

P. CONTOURS: 100, 200, 300, 500, 1000 M CONTOURS: 25,50 MF CONTOURS: 100, 200, 400

GEOLOGICAL BRANCH ASSESSMENT REPORT

Figure 6

HERA RESOURCES INC.

REY LAKE PROPERTY Nicola Mining Division, B.C. NTS 92 1-7E

Line 29 + 00N Pseudo Section Gossan Grid

To accompany a report by: M. Falk, Geophysicist Drawn By: MF Date: April 1993 749 569 561 317 444 5027 1211 891 933 397 655 528 1290 548 (37) 1345 588 350 368 1139 2058 713 1084 388 537 472 800 1643 859 1024 1027 666 330 933 1148 1318 888 446 625 427 857 1152 1854 915 736 780 244 811 1103 770 1578 431 760 564 656 1006 1093

632 526 725 662 971 669 984 622 705 653 753 897 1546 663 464 456 2630 1022 473 962 503 193 571 941 1214 1011

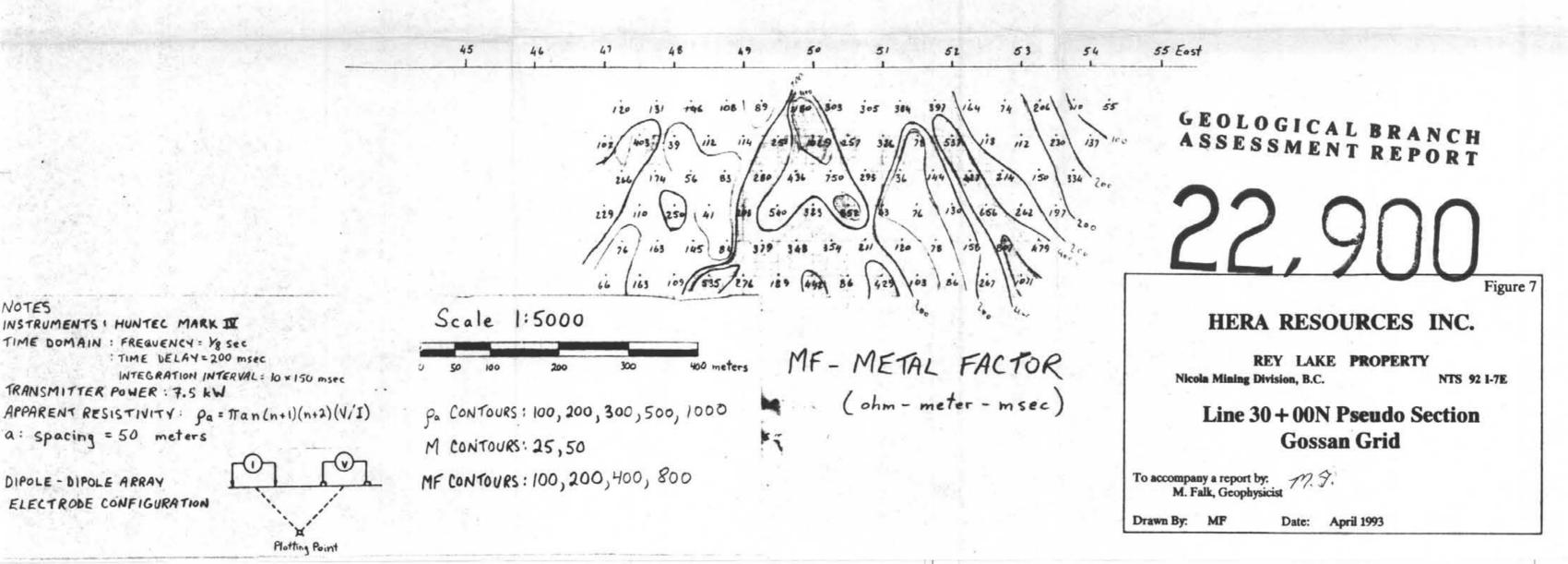
fa - APPARENT RESISTIVITY (ohm-meter)

55 East 53 37 20 34 35 22 9.1

M - CHARGEABILITY (msec)

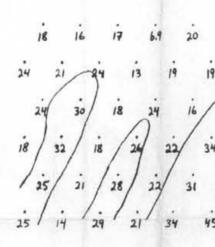
3000 LINE

45



486 1223 641 284 2281 416 1322 1411 1870 34 1669 1127 1235 575 1812 1097 2178 1024

fa - APPARE



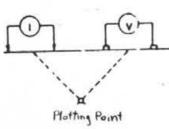
M - CHARG

1

55 East 173 114 193 355 268 140 134 591 170 154 139 139 187 219 287 37 383 574 328 201 227 698 166 154 298 113 291 419 383 323 334 882 354

NOTES INSTRUMENTS ! HUNTEC MARK I TIME DOMAIN : FREQUENCY : Yg sec TIME DELAY= 200 msec INTEGRATION INTERVAL = 10 x 150 msec TRANSMITTER POWER : 7.5 KW APPARENT RESISTIVITY: pa=Tran(n+1)(n+2)(V/I) a: spacing = 50 meters - (vm

DIPOLE - DIPOLE ARRAY ELECTRODE CONFIGURATION

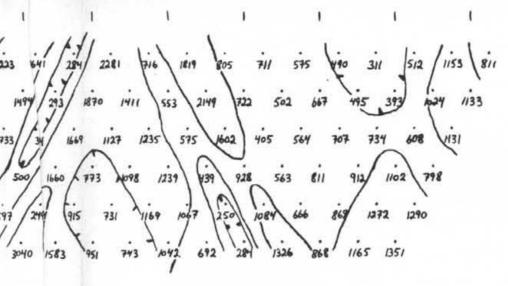


Scale 1:5000 400 meters 300 50 100 200

P. CONTOURS: 100, 200, 300, 500, 1000

M CONTOURS: 25

MF CONTOURS . 100, 200, 400, 800



MF - METAL FACTOR (ohm-meter-msec)

GEOLOGICAL BRANCH ASSESSMENT REPORT

Figure 8 HERA RESOURCES INC. **REY LAKE PROPERTY** NTS 92 I-7E Nicola Mining Division, B.C. Line 31 + 00N Pseudo Section **Gossan Grid** M.J. To accompany a report by: M. Falk, Geophysicist

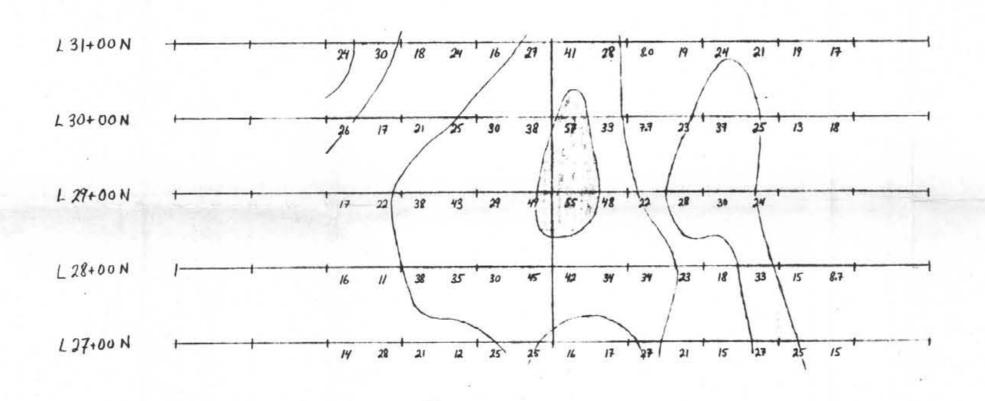
Date: April 1993 Drawn By: MF

1 1 1 5.5 4.6 25

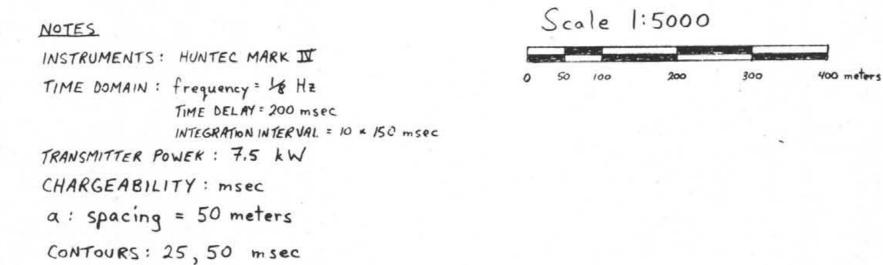
35 29 27 17 13 15 25 23 18 7.2 12 19 21 н is 24 25 18 9.3 12 33 31 iz 26 18 12 20 21 20 is 24 37 25 17 31 28 7.7 41 28 17 17 15 24 16 19 M - CHARGEABILITY (msec) ROND J.D. 1100 100 0 800 1200 1 1. in is so is in sig is in fire in iso / 201 (31) 224 200 201 225, io 2) 3 43 is so si 25 si (ios ins ing 223 /ise ing (221 ins is) (407 25 601 ise 20 209 236 23/ 479 238 208 ais is is as it is is its is is is is 76 180 13 128 44 41 × is is is in in in is is is in 196 in is is in 298 158 251 \$186 R 43 92) (2) in iou in (ios ac (127 153 / 87 / 174 181) 229 (162 351 267 299 GEOLOGICAL BRANCH 83 10 135 263 (57 408 is 203 272 379 365 isi 25 50 93 ASSESSMENT REPORT pin MF - METAL FACTOR (ohm-meter-msec) ROAD I.P. Figure 9 HERA RESOURCES INC. Scale 1:5000 **REY LAKE PROPERTY** NTS 92 I-7E Nicola Mining Division, B.C. 400 meters **Road IP Line Pseudo Section** 300 100 200 P. CONTOURS: 100, 200, 300, 500, 1000 M.F. To accompany a report by: M. Falk, Geophysicist M CONTOURS: 25 MF CONTOURS: 100,200,300 Date: April 1993 Drawn By: MF

NOTES INSTRUMENTS ! HUNTEC MARK I TIME DOMAIN : FREQUENCY = Y8 Sec TIME DELAY= 200 msec INTEGRATION INTERVAL = 'O x 150 msec TRANSMITTER POWER : 7.5 KW APPARENT RESISTIVITY: Pa= TTan(n+1)(n+2)(V/I) a: spacing = 50 meters

DIPOLE - DIPOLE ARRAY ELECTRODE CONFIGURATION



B.L. 50+00E

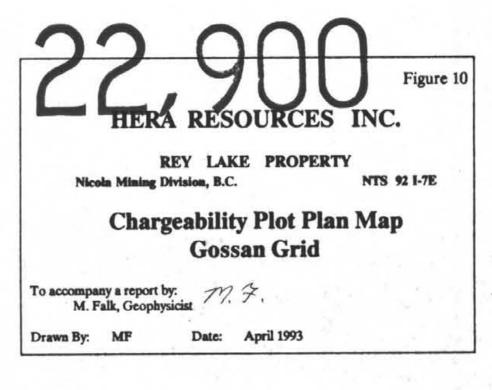


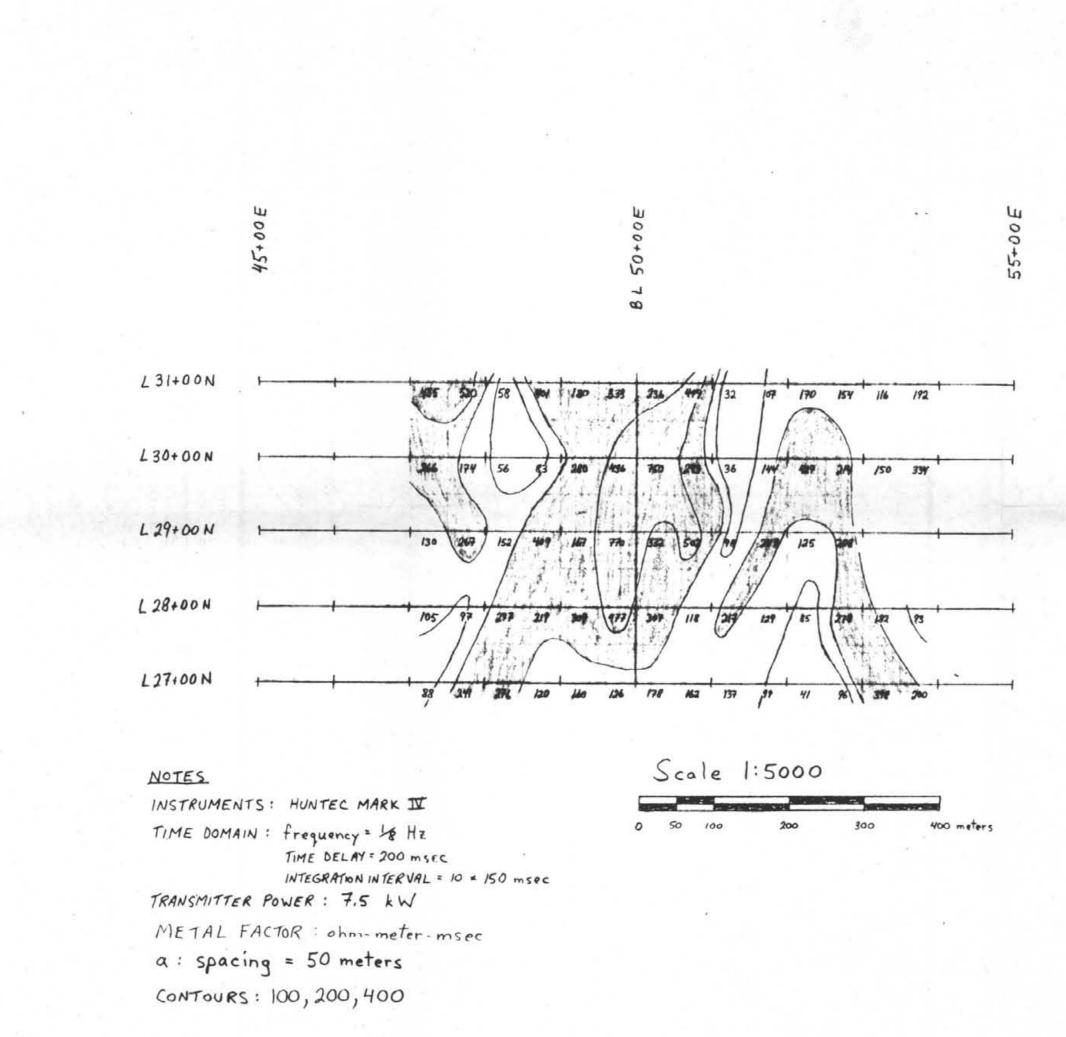
45+00E

55+00E

N

GEOLOGICAL BRANCH ASSESSMENT REPORT





GEOLOGICAL BRANCH ASSESSMENT REPORT

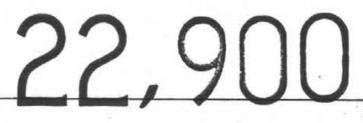


Figure 11

HERA RESOURCES INC.

REY LAKE PROPERTY Nicola Mining Division, B.C. NTS 92 I-7E

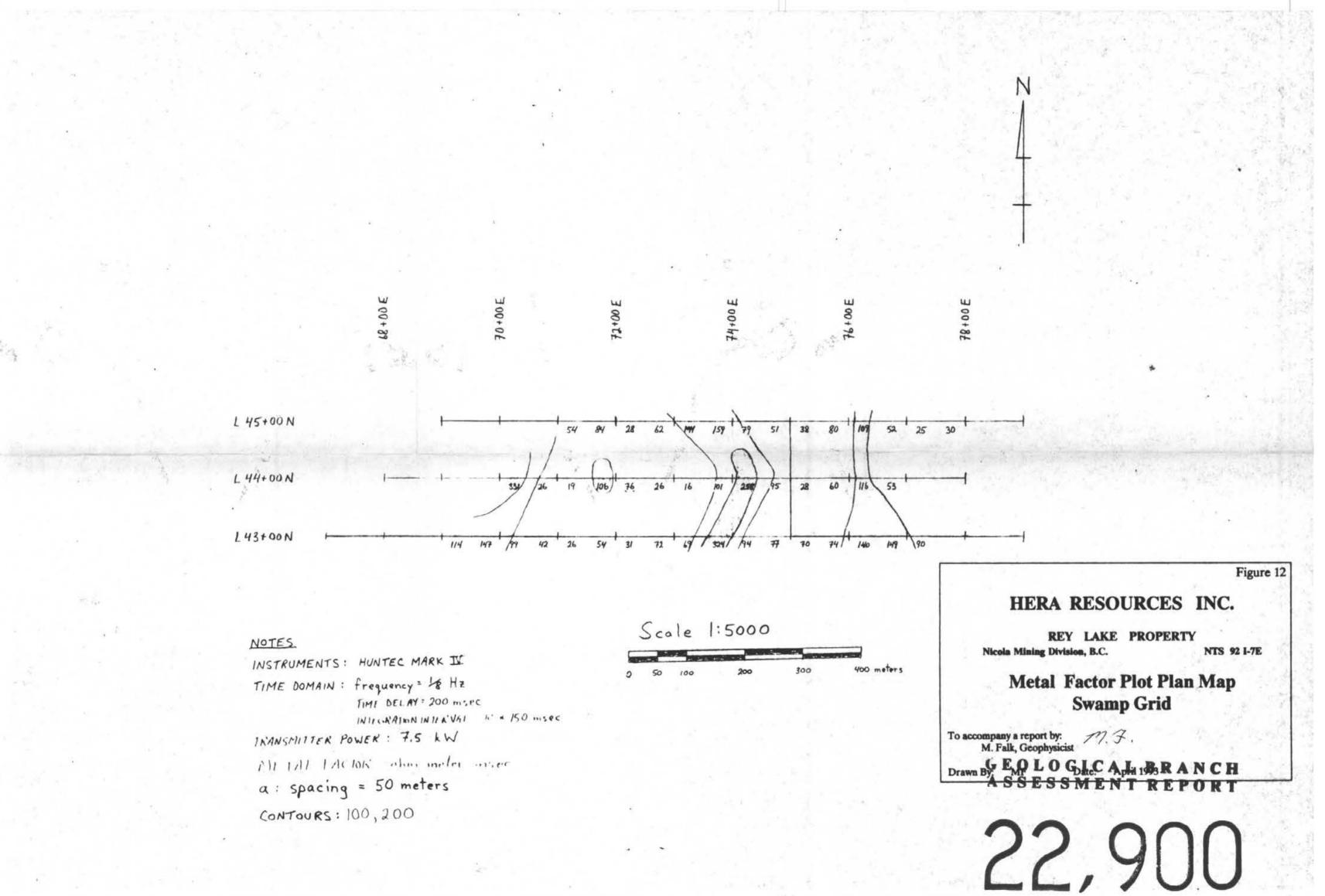
Metal Factor Plot Plan Map Gossan Grid

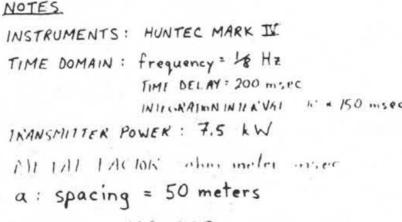
To accompany a report by: $\mathcal{TP} \mathcal{G}$, M. Falk, Geophysicist

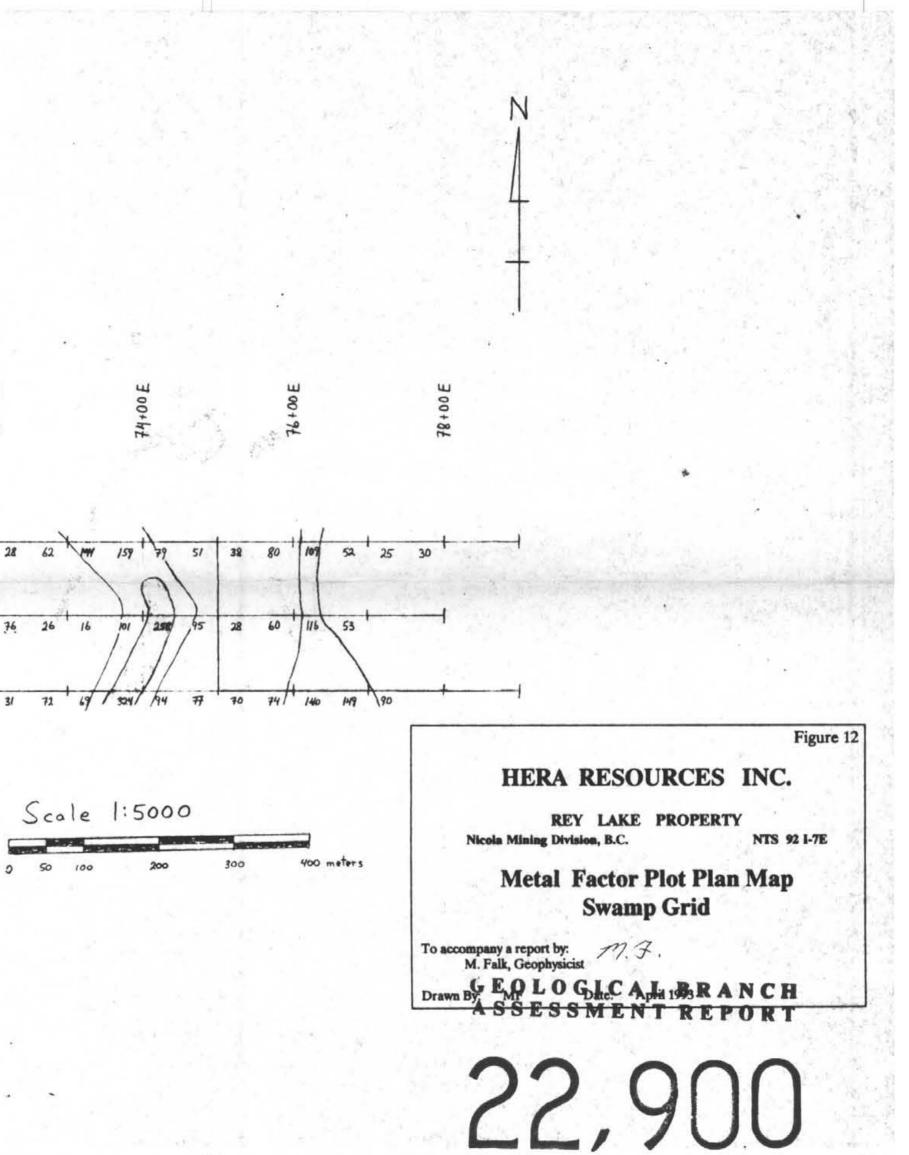
Drawn By: MF

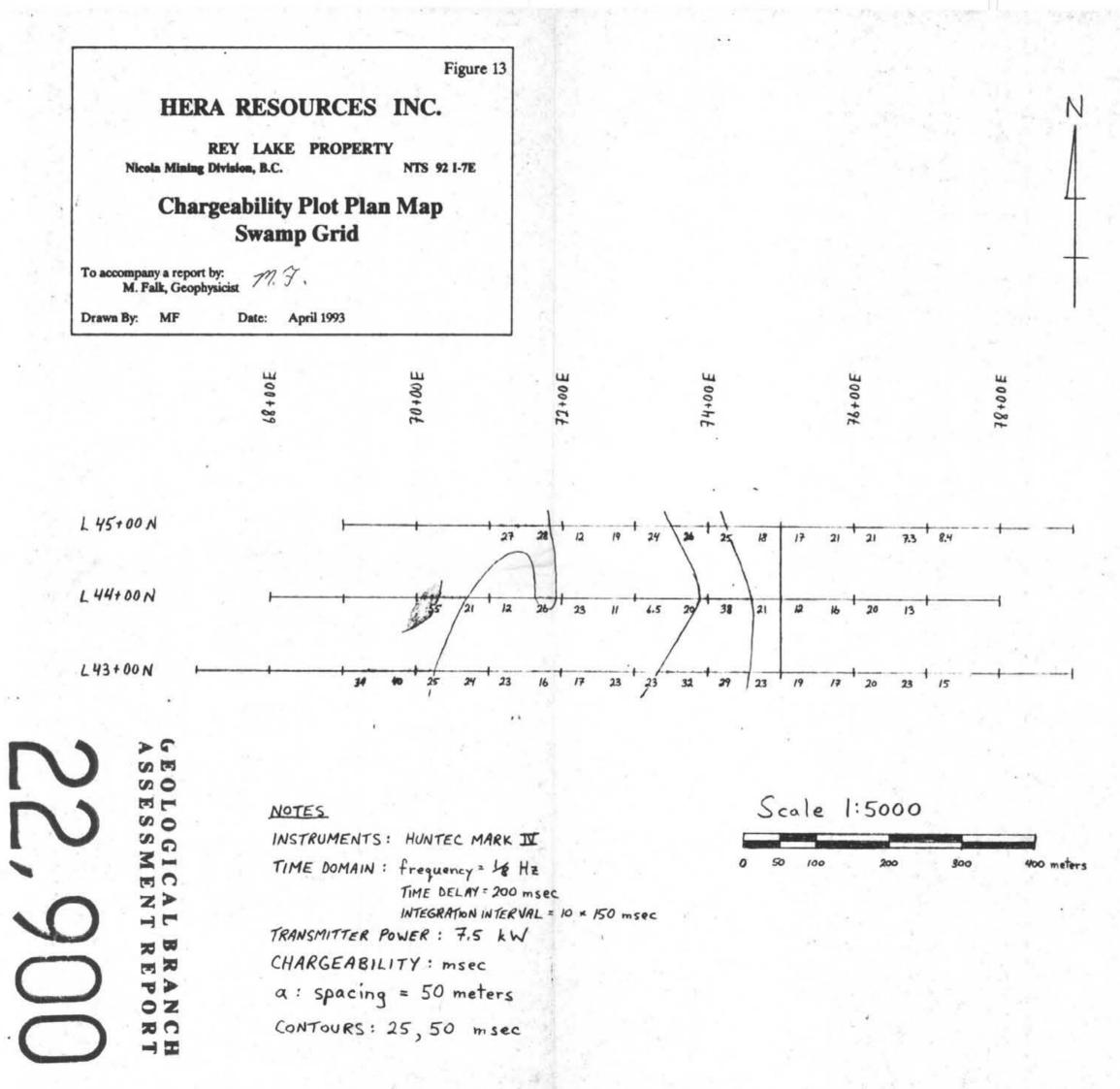
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Date: April 1993



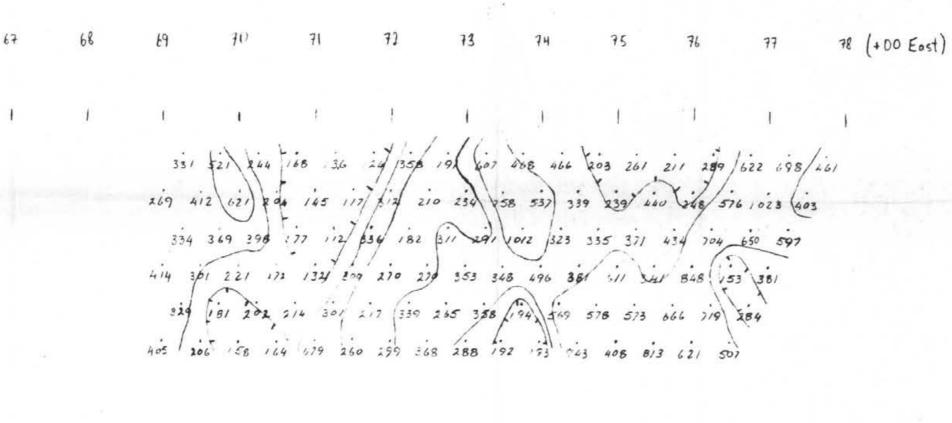






18 1 . . .





Pa-APPARENT RESISTIVITY (ohm - meter) - INIE 4300

MF - METAL FACTOR

400 meters (ohm - meter - msec)

,0"

HERA RESOURCES INC.

REY LAKE PROPERTY Nicola Mining Division, B.C. NTS 92 I-7E

Line 43 + 00N Pseudo Section Swamp Grid

To accompany a report by: M. Falk, Geophysicist M.J.

Drawn By: MF Date: April 1993

VOTES INSTRUMENTS ! HUNTEL MARK I TIME DUMAIN : FREQUENC .: Y8 Sec TIME DELAY= 200 msec INTEGRATION INTERVAL = 10 × 150 msec TRANSMITTER POWER : 7.5 KW APPARENT RESISTIVITY : Pa= Man(n+1)(n+2)(1/1) a: spacing = 50 meters

DIPOLE - DIPOLE ARRAY ELECTRODE CONFIGURATION

Plotting Point

Scale 1:5000

Pa CONTOURS : 100, 200, 300

200

100

M CONTOURS: 25,50

MF CONTOURS. 100, 200

2

50

300

68 69 70 71 72 73 74 75 76 77 78 (400 East)

25 328 iz iza iza jaz (195 687) 248 280 109 146 237 255 502 359 175 236 392 541 399 137 / 135 145 / 340 (273 489 385 368 565) 123 161 409 332 238 24 63 679 450 233 373 578 408 (146 454 370 3is) (43 (350 368 927 42 602 263 391 330 308 212 483 833 671 614 745 987 383 60 596 287 252 192 289 187 343 809 983

Pa - APPARENT RESISTIVITY (ohm-meter)

SH 17 33 24 34 15 12 25 12 23 55 65 20 11 å 7.3 5.8 10 23 3 11 22 37 13 31 19 9.5 0.7 22 B 13 18 4.7 4.5 40 24 37 25

35

27

17

0.8

M - CHARGEABILITY (msec)

78 (+00 East) 73 27 12 75 68 21 70 1 85 23 75 51 21 /3 20 125 136 19 28 48 59 23 22 37 01 200 116 53 żb 26 95 28 60 76 19 GEOLOGICAL B 35 162 20 23 91 ASSESSMENT R 13 24 262 11 107 61 20 24 18 53 74 1 26 29 8 14 63 44 36 14 46 MF - METAL FACTOR (ohm-meter-msec) Figure 15 NOTES Scale 1:5000 INSTRUMENTS ! HUNTEC MARK I HERA RESOURCES INC. TIME DOMAIN : FREQUENCY = Yg sec TIME DELAY = 200 msec 400 meters 300 50 INTEGRATION INTERVAL = 10 x 150 msec REY LAKE PROPERTY TRANSMITTER POWER : 7.5 KW NTS 92 1-7E Nicola Mining Division, B.C. Pa CONTOURS : 100, 200, 300, 500 APPARENT RESISTIVITY: pa= Man(n+1)(n+2)(V,I) Line 44 + 00N Pseudo Section a: spacing = 50 meters M CONTOURS: 25,50 **Swamp Grid** MF CONTOURS: 100, 200, 400 DIPOLE - DIPOLE ARRAY To accompany a report by: M. Falk, Geophysicist M. J. ELECTRODE CONFIGURATION

Date: April 1993

Drawn By: MF

Plotting Point

78 (+00 East)

78 (+00 East)

ł . 1 272 233 221 137 / 231 474 324 257 209 (594 sie 610 316 214 224 379 518 320 385 \$4 395 200 855 520 307 422 350 596 372 403 687 440 369 561 335 329 489

Ja - APPARENT RESISTIVITY (ohm-meter)

25 32 18) 6.5 7.0

M - CHARGEABILITY (msec)

78 (+00 East) 17 3.7 32 32 (101) (17) GEOLOGICAL BRA ASSESSMENT MF - METAL FACTOR (ohm-meter-msec) Scale 1:5000 Figure 16 HERA RESOURCES INC. TIME DELAY= 200 msec 400 meters INTEGRATION INTERVAL = 10 x 150 msec **REY LAKE PROPERTY** P. CONTOURS : 100, 200, 300 NTS 92 1-7E Nicola Mining Division, B.C. M CONTOURS: 25 Line 45 + 00N Pseudo Section **Swamp Grid** MF CONTOURS: 100,200 17.7. To accompany a report by: M. Falk, Geophysicist Plotting Point Date: April 1993 Drawn By: MF

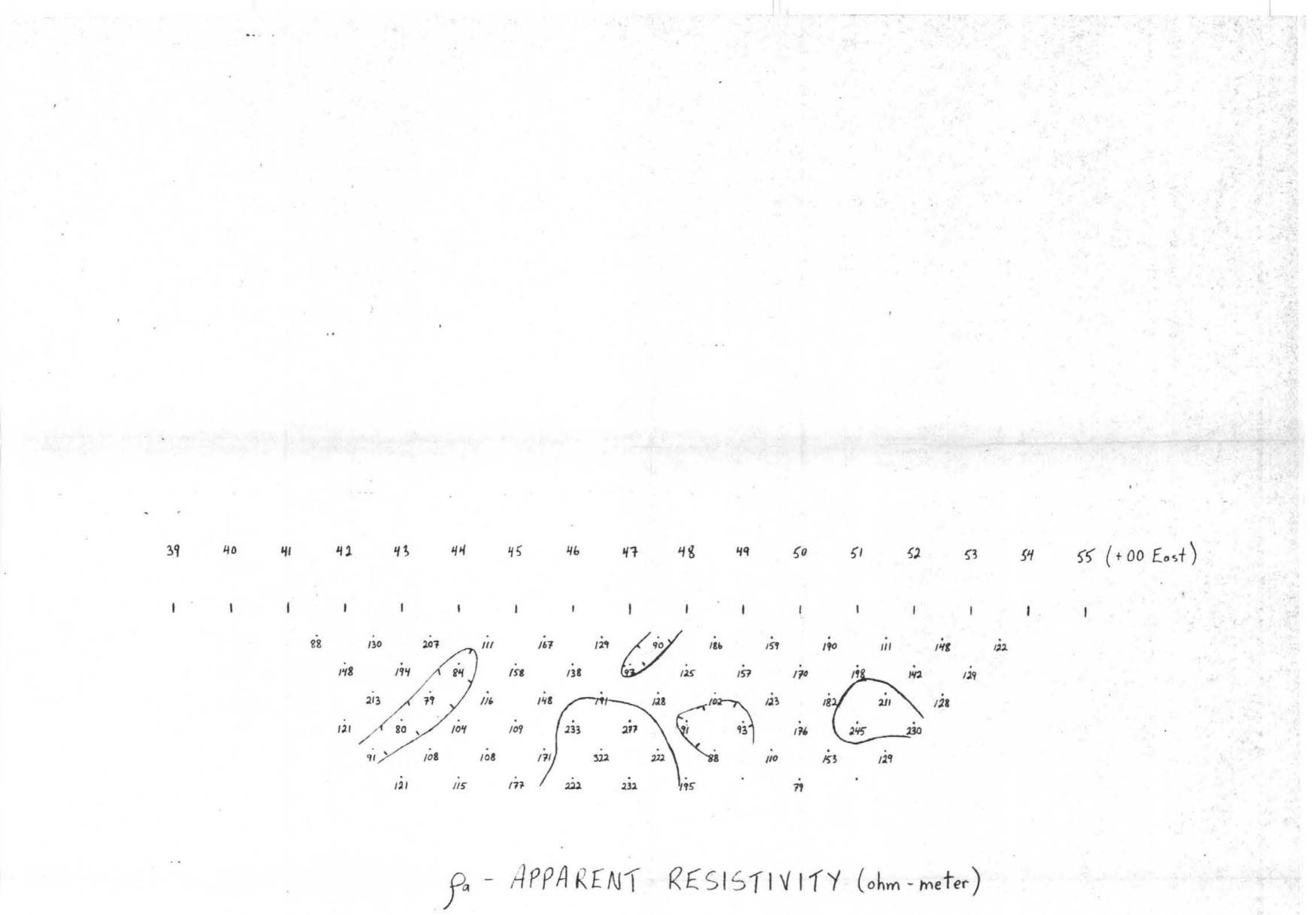
NOTES INSTRUMENTS ! HUNTEL MARK I TIME DOMAIN : FREQUENCY = Vg sec TRANSMITTER POWER : 7.5 KW · APPARENT RESISTIVITY : Pa= Man(n+1)(n+2)(V/I) a: spacing = 50 meters DIPOLE - DIPOLE ARRAY ELECTRODE CONFIGURATION

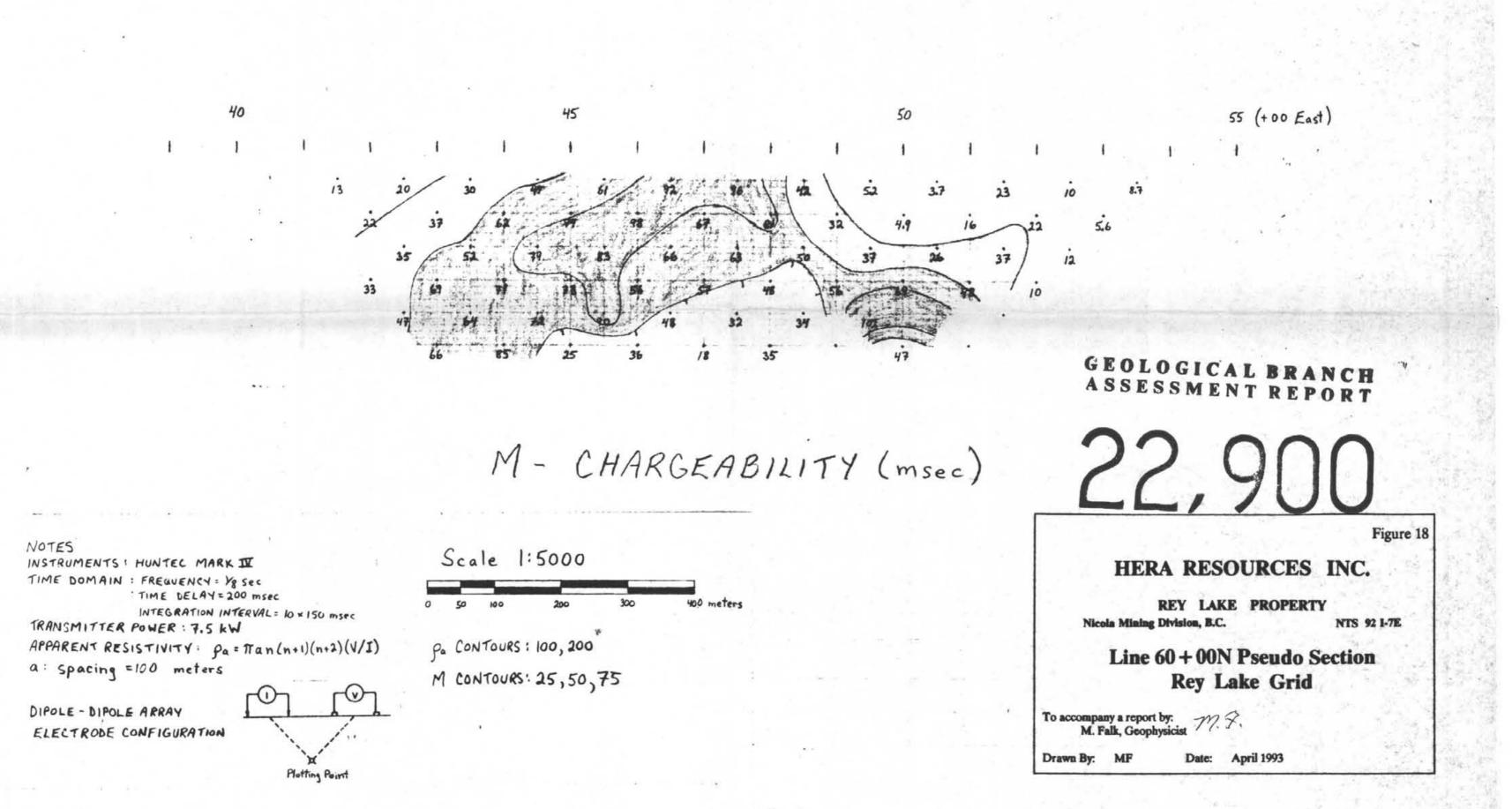
. . .

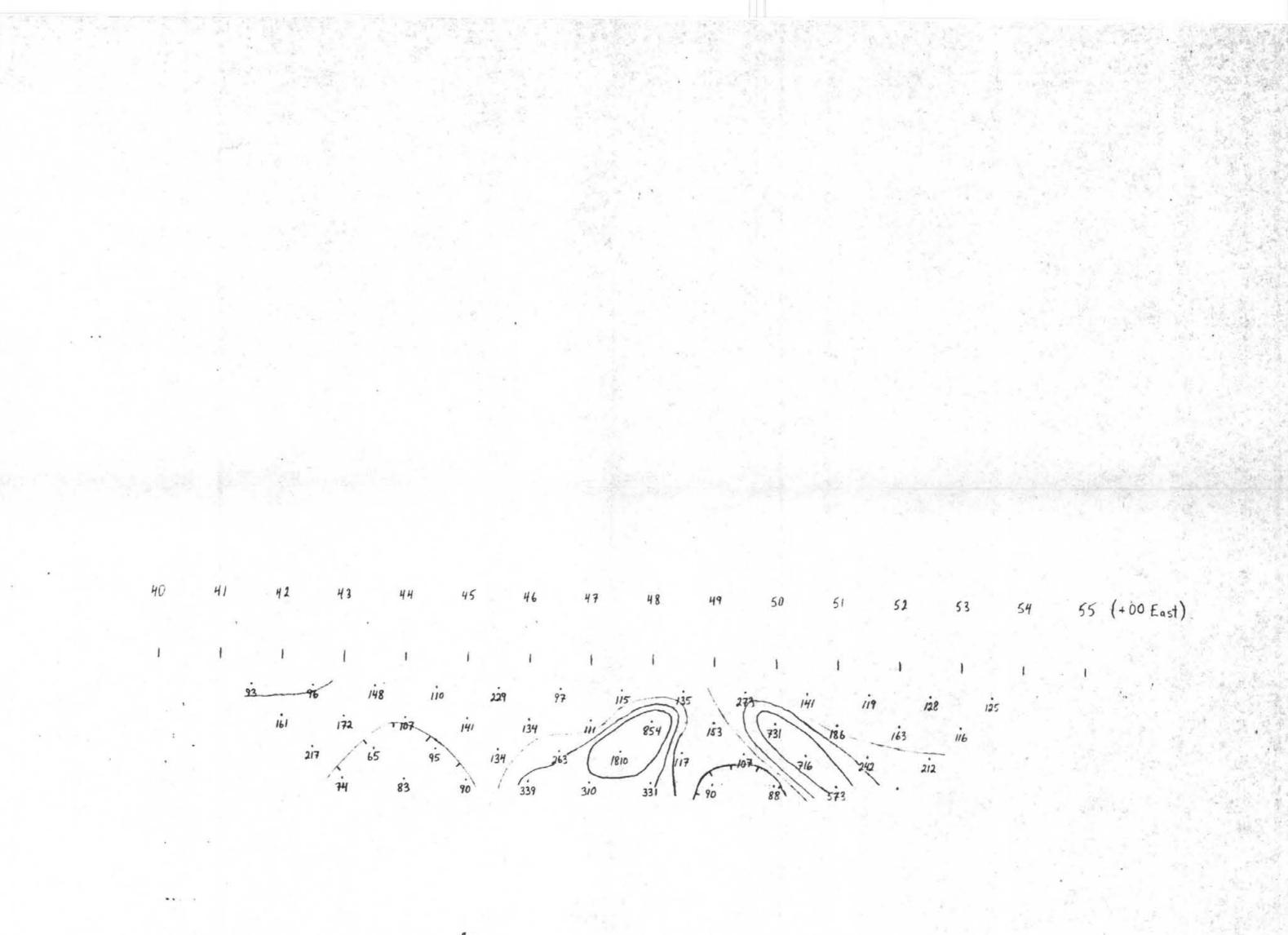
51 (+00 East) .34 $i\dot{v}$ 7 $i\dot{\tau}$ 3 $2\dot{z}$ 8 $2\dot{v}$ $i\dot{s}$ 6 $i\dot{z}$ 8 $i\dot{s}$ 3 $2\dot{s}$ 6 $i\dot{s}$ 6 $i\dot{z}$ 8 $i\dot{s}$ 6 $i\dot{z}$ 8 $i\dot{s}$ 6 $i\dot{z}$ 8 $i\dot{s}$ 7 $i\dot{s}$ 2 $2\dot{v}$ 7 $i\dot{s}$ 2 $2\dot{s}$ 8 $i\dot{s}$ 9 $2\dot{s}$ 2 $i\dot{s}$ 2 $i\dot$ ilb . 313

Pa - APPARENT RESISTIVITY (ohm-meter)

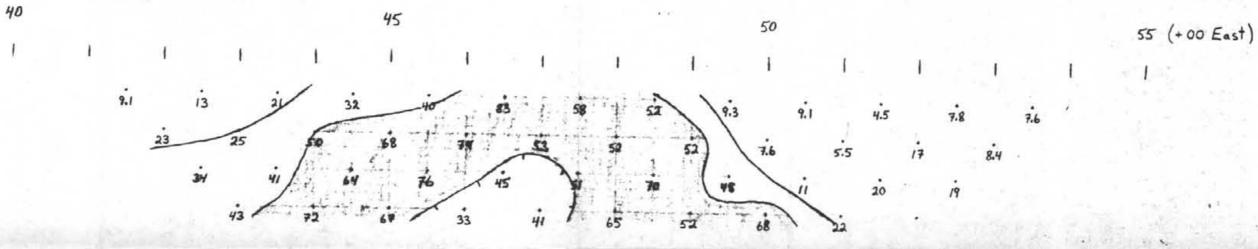
50 (+00 East) + ii 3.7 2.9 3.6 ii 3.3 9.7 GEOLOGICAL ASSESSMENT REP M - CHARGEABILITY (msec) Figure 17 HERA RESOURCES INC. NOTES Scale 1:5000 INSTRUMENTS ! HUNTEL MARK I **REY LAKE PROPERTY** TIME DOMAIN : FREQUENCY = Yg sec Nicola Mining Division, B.C. NTS 92 1-7E TIME DELAY= 200 msec 400 meters INTEGRATION INTERVAL = 10 x 150 mse. Line 61 + 00N Pseudo Section TRANSMITTER POWER : 7.5 KW APPARENT RESISTIVITY: pa=Tran(n+1)(n+2)(1/1) P. CONTOURS : 100, 200, 300 **Rey Lake Grid** a: spacing = 0 meters M CONTOURS: 25, 50, 75, 100 17.7. To accompany a report by: M. Falk, Geophysicist DIPOLE - DIPOLE ARRAY Drawn By: MF Date: April 1993 ELECT RODE CONFIGURATION Plating Point







Pa - APPAKENT RESISTIVITY (ohm-meter)

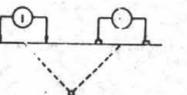


M - CHARGEABILITY (msec)

NOTES INSTRUMENTS : HUNTEL : MARK IN TIME DOMAIN : FREQUE: CH : 18 Sec TIME DELAY = 200 msec INTEGRATION INTERVAL = 10 x 150 mst . TRANSMITTER POWER : 7.5 KW APPARENT RESISTIVITY: ga= TTan(n+1)(n+2)(i/I) a: spacing = 100 meters DIPOLE - DIPOLE ARRAY

ELECTRODE CONFIGURATION

9



Plotting Point

Scale 1:5000



P. CONTOURS : 100, 200, 300, 500 M CONTOURS: 25,50

GEOLOGICAL BRANCH ASSESSMENT REPORT

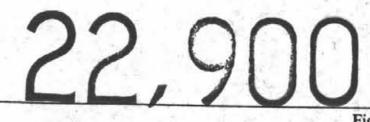


Figure 19

HERA RESOURCES INC.

REY LAKE PROPERTY Nicola Mining Division, B.C.

NTS 92 1-7E

Line 59+00N (100m) Pseudo Section **Rey Lake Grid**

To accompany a report by: M. Falk, Geophysicist M. F.

Drawn By: MF Date: April 1993 55 (+00 East)

7 ii7 / 92 i47 55 131 171 158 171 123 (249 240 113-55 172 242) 115 1 50 136 59 126 95 153 183 113 107 135

1

1

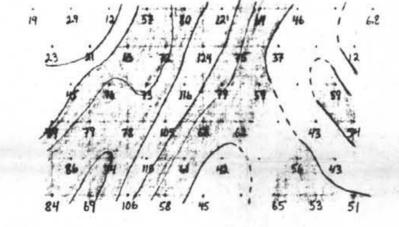
Po- APPARENT RESISTIVITY (ohm-meter)

45

50

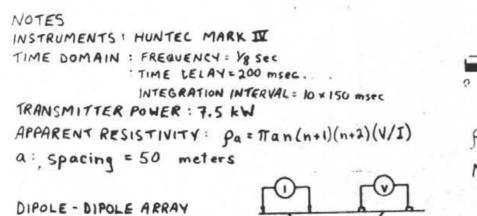
1

55 (+00 East)



GEOLOGICAL BRANCH ASSESSMENT REPORT

M- CHARGEABILITY (msec)

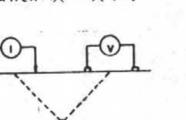


40

1

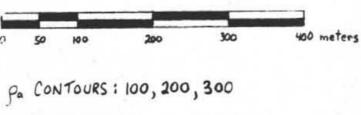
1

ELECTRODE CONFIGURATION



Plotting Point

Scale 1:5000



M CONTOURS: 25, 50, 75, 100

22.9Figure 20 HERA RESOURCES INC. **REY LAKE PROPERTY** Nicola Mining Division, B.C. NTS 92 I-7E Line 59 + 00N (50m) Pseudo Section **Rey Lake Grid**

To accompany a report by: M. Falk, Geophysicist M. 7.

Drawn By: MF Date: April 1993 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 (+00 East)

 $\frac{1}{80}$ $\frac{1}{57}$ $\frac{1}{67}$ $\frac{1}{51}$ $\frac{1}{70}$ $\frac{1}{139}$ $\frac{1}{194}$ $\frac{1}{98}$ $\frac{1}{81}$ $\frac{1}{114}$ $\frac{1}{148}$ $\frac{1}{138}$ $\frac{1}{164}$ $\frac{1}{56}$ $\frac{1}{162}$ $\frac{1}{29}$ $\frac{2}{264}$ $\frac{1}{232}$ $\frac{1}{90}$ $\frac{1}{56}$ $\frac{1}{124}$ $\frac{1}{77}$ $\frac{1}{76}$ $\frac{1}{76}$

Pa - APPARENT RESISTIVITY (ohm-meter)

40

15

18

/in

12

15

92

44

44

37

38

3

3

29

. 34

25

25 34

46

37

54

21

21

34 54 39

91

94

14 14

130

104

70

93/

57

106

69

13

107

124 76

79

106

74

54

83

103

71

96

45

85

75

66

69

90

116

71

/03

93

30

30

37

91 15 35 64

31

20

12

41

GEOLOG

ASSESSMEN

17

33 27 25 11 19

3.8 16 26 34 9.6 20 34 : 55 14 21 9.3 6.8 4.4 15 48 62 41 31 27 19 16 68 15 . 30 18 23 35 64 29 16 13 12 7.5 13 1.8 32 76 17 20 54 39 28 7.4 27 16 5.7 **. . M- CHARGEABILITY (msec) 40 55 (+00 East) is in 48/15/26 37 1 is is i i is 13 21 22 200 34 38 102 60 31 63 50 105/ 83 46 22 19 10 3 41

1. 80 11

55 (+00 East)

MF - METAL FACTOR (ohm-meter-msec) OTES Scale 1:5000 5800 N NSTRUMENTS ! HUNTEL MARK I HERA RESOURCES INC. IME DOMAIN : FREQUENCY = Yg sec TIME DELA += 200 msec 300 100 meters **REY LAKE PROPERTY** 100 200 INTEGRATION INTERVAL = 10 x 150 msec Nicola Mining Division, B.C. NTS 92 1-7E RANSMITTER POWER : 7.5 KW P. CONTOURS : 100, 200, 300 APPARENT RESISTIVITY: Pa= TTan(n+1)(n+2)(V/I) Line 58+00N Pseudo Section a: spacing = 50 meters **Rey Lake Grid** M CONTOURS: 25,50, 75,100 MF CONTOURS: 25, 75, 150,300 To accompany a report by: M. Falk, Geophysicist DIPOLE - DIPOLE ARRAY M.J. ELECTRODE CONFIGURATION Drawn By: MF Date: April 1993 Plotting Point

55 (+00 East)

161 241 218 41 324 237 376 288 153 99 85 193 118 166 72 -104 76 82 137 92 137 18 117 160 147 259 197 (109 392 263 (183 222 135 193 751 192 182 197 84 \ 150 112 100 185 141 434 353 257 156 201 149 77 117 (221 114 160 113 87 98 147 107 125 107 192 202 160 154 180 370 30 180 145 201 185 103 95 92) 104 178 132 216 204 160 124 197 165 548 238 172 147 222 187 133 107 228 179

Pa - APPARENT RESISTIVITY (ohm-meter)

55 (+ 00 East)

Figure 22

NTS 92 1-7E

HERA RESOURCES INC.

REY LAKE PROPERTY

Line 57+00N Pseudo Section

Rey Lake Grid

Date: April 1993

Nicola Mining Division, B.C.

M. Falk, Geophysicist M.F.

To accompany a report by:

Drawn By: MF

2.8 7.4 7.8 5.3 9.1 43 37 37 0.5 6.9 1.5 4.9 8.1 13 1.7

M- CHARGEABILITY (msec)

55 (+00 East) 32 33 is / is giz in 12 in 1 io 12 43 38 33 81 . 4 Z 83 182 63 57 25 17 122 105 140 98 129 120 105 35 152 134 87 14 40 15 12 125 93 / 66 54 63 67 137 115 123 /24 83 82 GE i in is is is is si (00 195 12 20 ASSESSME 66 25 37 53 -#7 MF - METAL FACTOR (ohm-meter-msec)

400 meters

VOTES NSTRUMENTS ! HUNTEL MARK I TIME DOMAIN : FREQUENCY = Yg sec TIME DELAY = 200 msec INTEGRATION INTERVAL = 10 × 150 msec TRANSMITTER POWER : 7.5 KW APPARENT RESISTIVITY: fa= TTan(n+1)(n+2)(V;I) a: spacing = 50 meters DIPOLE - DIPOLE ARRAY ELECTRODE CONFIGURATION

Ł

Platting Point

Scale 1:5000

Pa CONTOURS : 100, 200, 300

MF CONTOURS: 25, 75, 150,300

M CONTOURS: 25, 50, 75

55 (+00 East) 133 138 161 203 177 261 78 297 285 184 205 119 42 84 87 81 87/ 116 69 107 87 960 49 148 118 87 120 143

Pa - APPARENT RESISTIVITY (ohm-meter)

ss (+00 East) 1 1 1 1 27 37 42 47 24 40 57 55 43 20 17 16 48 30 33 53 53 58 30 37 58 34 34 3.9 2.7 95 16 / 26

24 14 13 88 68 50 10/10 35 27 63 12 47 61 22 40 7.9 34 22-67 37 25 8.9 11 13 18 24 47 53 65 13 25 21 67 32 17 42 74 457 ю 13 34 56 27 53 13 71 17 28 M- CHARGEABILITY (msec) 55 (+00 Eat) 45 1 56 65/ 34 Bi 33 59 48 30 144 23 /3 104 39 12 12 15, 43 30 86. 140 128 60 53 37 124 81 24 115 105 109 116 88 149 117 38 78 37 58 14 17 53 44 59 18 13, 39 56 122 131 /118 160 46 45 63 112 48 129 255 18 66 12 13 20 25 24 32 56 58 47 14 125 172 15 86 46 97 165 70 46 30 FOLOGICA 11 z! 31 100 75 56 75 91 54 63 in the se is ASSESSMEN 1 230 196 134 97 110 29 86 17 111 60 44 33 85 89 10 86 MF - / METAL FACTOR (ohm-meter-msec) Figure 23 Scale 1:5000 INSTRUMENTS ! HUNTEC MARK I HERA RESOURCES INC. TIME DOMAIN : FREQUENCY = Yg sec TIME DELAY = 200 msec 400 meters **REY LAKE PROPERTY** INTEGRATION INTERVAL = 10 x 150 msec NTS 92 1-7E TRANSMITTER POWER : 7.5 KW Nicola Mining Division, B.C. P. CONTOURS : 100, 200, 300, 500 APPARENT RESISTIVITY $p_a = \pi a n (n+1)(n+2)(V/I)$ Line 56+00N Pseudo Section a: spacing = 50 meters M CONTOURS: 25, 50, 75 **Rey Lake Grid** MF CONTOURS . 25, 75, 150,300 M.F. To accompany a report by: M. Falk, Geophysicist ELECTRODE CONFIGURATION

Date: April 1993

Drawn By: MF

Plotting Point

NOTES

DIPOLE - DIPOLE ARRAY

ill in 155 126 115 102 91 141/211/ 172/227 108 161 152 180 151 (258 386 291) 305 199 213/149 133 05 89 86 in lin is in ins is 101 195 219 525 212 185 229 is 18 326 324 356 124 is 126 157 155 159 105 ill 99 159 216 104 104 109 235 108 230 203 208 231 211 118 206 201 205 300 314 30 148 111 154 156 114 97 140 158 224 204 202 229 156 202 263 215 319 200 212 222 230 209 413 200 364 370/209 187 162 171 150 124 157 252 204 275 141 162 210 253 204 553 205 251 234 259 254 435 287 397 230 244 157 184 143 152 194 265 244 156 163 183 202 291 448 396 316 264 296 252 206 400 921 206 276 257 186 170

Pa - APPARENT RESISTIVITY (ohm-meter)

55 (+00 East)

+00 East

______ / _____ / ____ / ____ / ____ / ____ / ____ / _____ / ____ / ____

50

12 21 18 28 21 ù 11: 37 22

M - CHARGEABILITY (msec)

55 (+00 East) 40 156 259 169 247 118 108 / 51 36 45 13 14 18 52 8 13 119 76 115 75 116 305 245 152 264 240 108/ 53/ 114 58 9 16 44 45 27 64 102 265 13 164 100 120 184 323 136 247 220 224 (1) 12 22 51 38 29 66 85 47 69 105 187 197 219 134 140 122 194 219 206 222 224 98 39 45/11 ASEOLOGIC 22 /32 40 57 ASSESSME 55 104 54 57 /86 54 167 398 178, 173 136 /165 94 40 186 206/81 28/ 184 27 30 53 69/86 1.00 71 117 140 300 80 90 23 53 90 59 297 221 166 201 1 125 280 177 74 MF - METAL FACTOR (ohm-meter-msec) Figure 24 Scale 1:5000 HERA RESOURCES INC. **REY LAKE PROPERTY** meters 100 NTS 92 1-7E Nicola Mining Division, B.C. Pa CONTOURS : 100, 200, 300 Line 55 + 00N Pseudo Section **Rey Lake Grid** M CONTOURS: 25,50 MF CONTOURS: 25, 75, 150,300 M. Falk, Geophysicist 79.7. To accompany a report by: Date: April 1993 Drawn By: MF

NOTES INSTRUMENTS : HUNTEC MARK IN TIME DOMAIN : FREQUENCY - Yg sec : TIME DELAY = 200 msec INTEGRATION INTERVAL = 10 × 150 msec TRANSMITTER POWER : 7.5 kW APPARENT RESISTIVITY : Pa = TTan(n+1)(n+2)(V/I) a: spacing = 50 meters

DIPOLE - DIPOLE ARRAY ELECTRODE CONFIGURATION

55 (+00 East) 1 /63 in 137 /300 (in 173 445 430 551 363 22 317 82 92 653 128 156 725 608 651 754 230 168 214 210 674 257 16 335 164 170 mg 63 548 765 470 575 760 333 339 188 198 639 349 204/ 324 48/ 330 255 152 114 144 (282) 301 611 553 421 435 334 635 537 345 349 283 224 205 sin 413 224 (555 887 281 336 532 321 200 289 436 395 204 428 127 483 242 223 683 342 178 257 434 338 450 173 Pa - APPARENT RESISTIVITY (ohm-meter)

22 2.4 2.5 3.7 32 40 20 23 4.8 3.1 0.9 28 27 12 27 21 4.1 2.1 2.5 7.7 31 21 'n M - CHARGEABILITY (msec) LINE 53+00 N. 55 (+00 East) 45 50 3.6 24 3.7 / 9.6 32/ 1.4 26 3.4 12 275 56 5.1 6.5 2.6 32/ 1.3 37 15 1.8 167 45 9.0 28/ 5.9 8.6 12 GEOBOGI 115 35 151 27: 117 201 55 СН ASSESSMENT EPORT R 41 17 34/ 13 35 107 18 4.3 62 /33 18 37 28 28 50 59 185 34 71 181 15 20 Figure 26 Scale 1:5000 MF-METAL FACTOR HERA RESOURCES INC. INSTRUMENTS ! HUNTEC MARK I (ohm-meter-msec) TIME DOMAIN : FREQUENCH = Yg sec TIME DELAY= 200 msec 300 **REY LAKE PROPERTY** 100 INTEGRATION INTERVAL = 10 x 150 msec NTS 92 1-7E Nicola Mining Division, B.C. TRANSMITTER POWER : 7.5 KW P. CONTOURS : 100, 200, 300, 500 APPARENT RESISTIVITY: Pa= Tran (x,+1)(n+2)(V/I) Line 53 + 00N Pseudo Section a: spacing = 50 meters M CONTOURS: 25, 50, 75 **Rey Lake Grid** 14F CONTOURS: 25, 75, 150,300 M. Falk, Geophysicist M. 7. DIPOLE - DIPOLE ARRAY To accompany a report by: ELECTRODE CONFIGURATION Drawn By: MF Date: April 1993

Plotting Point

55 (+00 East) $\frac{1}{10}$ $\frac{1}{10}$ $\frac{135}{107} \frac{198}{198} \frac{194}{198} \frac{194}{199} \frac{195}{192} \frac{196}{182} \frac{195}{192} \frac{195}{128} \frac{196}{195} \frac{196}{192} \frac{19$ 270 177 307 130 148 203 201 286 322 336 210 573 551 508 375 185 157 155 169 297 20 573 396 391 224 134 154 203 164 166 218 243 /103 (95) 209 341 475 (369 38) Pa Apparent RESISTIVITY (ohm-meter)

55 (+00 East)

1.1 - 27 4 20 1.7 24/ 1.1 5 12 đ 52 1 ġ, M - CHARGEABILITY (msec) LINE 54+00 N 55 (+00 East) 286 288 15 12 215 142 25 36 20 /116 79 63 1 265/ 148 541 107 23 237 891 62) 271 252 245 266 G K O L O G I 4.00 200 3524 27. ASSESSMEN 116 139 234 44 423 214 105 83 55 50 56 134 49 45 /126 50 203 36 39 (150 143 1853 197 198 202 99 81 27 43 67 128 344 315 48 67 MF-METAL FACTOR (ohm-meter-msec) Figure 25 Scale 1:5000 • • • • HERA RESOURCES INC. INSTRUMENTS ! HUNTEC MARK I TIME DOMAIN : FREQUENCY Yg sec TIME DELAY = 200 msec 400 meters **REY LAKE PROPERTY** INTEGRATION INTERVAL = 10 x 150 msec Nicola Mining Division, B.C. NTS 92 1-7E TRANSMITTER POWER : 7.5 KW P. CONTOURS : 100, 200, 300, 500 APPARENT RESISTIVITY · Pa= Tran(n+1)(n+2)(V/I) Line 54 + 00N Pseudo Section a: spacing = 50 meters **Rey Lake Grid** M CONTOURS: 25, 50, 75 MF CONTOURS: 25, 75, 150,300 17.7. DIPOLE - DIPOLE ARRAY To accompany a report by: M. Falk, Geophysicist ELECTRODE CONFIGURATION Date: April 1993 Drawn By: MF Plotting Point

5 (+00 East) 158 233 305 295 270 289 296 373 514 333 352 276 345 561 403 590 392 191 357 439 375 217 296 336 334

Pa- APPARENT RESISTIVITY (ohm-meter)

53 44 55 51 22 13 3.7 2.3 4.2 4.3 41 35 33 37 36 1 27 ×17 42 57 47 62/ ii J 7.5 15 59 2.3 55 32 / 27 9.3 17 6.5 22 19/ 16 8.7 3/ 13 15 - 14 10 32 33 22 33 23 39

55 (+00 East

5.

M - CHARGEABILITY (msec)

55 (+00 East) 117 61 qi 140 203 96 166 124 170 217 627 200 515 412 346 193 194 29 32 154 112 128 138 127 253 199 125 143 140 453 438 139 251 214 27 121 116 118 / 192 /102 251 515 199 173 210/ 5/ 59 142 246 290 357 35 69 272 125 98 214 2.52 A S SESSMEN 181/76 122 80 125 94 121 99 185 32 115 155 128 91 (328) 26 35 2.82 129 260 177 326/ 72 117 Figure 27 MF - METAL FACTOR Scale 1:5000 1 * HERA RESOURCES INC. INSTRUMENTS ! HUNTEL MARK I (ohm-meter-msec TIME DOMAIN : FREquENCY = Yg sec TIME DELAY= 200 msec 400 meters **REY LAKE PROPERTY** INTEGRATION INTERVAL = 10 × 150 msec NTS 92 1-7E Nicola Mining Division, B.C. TRANSMITTER POWER : 7.5 KW P. CONTOURS : 100, 200, 300, 500 APPARENT RESISTIVITY : fa= Tran(n+1)(n+2)(V/I) Line 52+00N Pseudo Section a: spacing = 50 meters M CONTOURS: 25,50 **Rey Lake Grid** MF CONTOURS: 25, 75, 150,300 DIPOLE - DIPOLE ARRAY M. Falk, Geophysicist M. F. To accompany a report by: ELECTRODE CONFIGURATION Date: April 1993 Drawn By: MF Plotting Point

55 (+00 East) 1 1

Pa - APPARENT RESISTIVITY (ohm - meter)

¥.2 2.9 3.6 31 27 8.3 4.1 5.8 3.3 5.1 6.4 5.1 5.9 9.3 5.2 9.2 5.7 5.7 6.8 6.1 8.5 6.9 4.2 7.8 4.9 6.0 6.3 3.1 7.1 9.2 22]

M - CHARGEABILITY (msec)

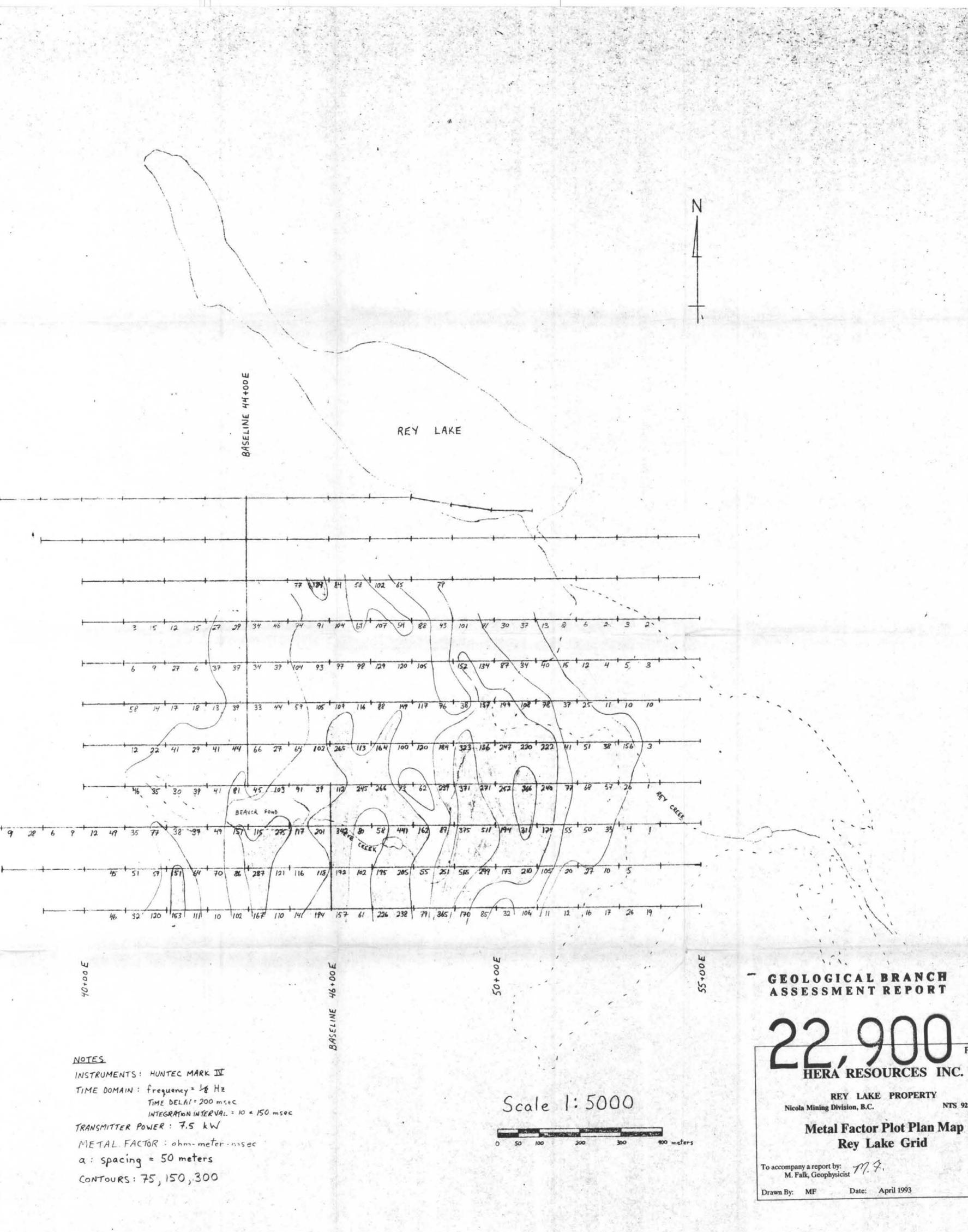
55 (+00 East) 5.4 4.9 33 25 5.3 6.2 104, 7.8 /2 223 259 73 57 5.8 9.7 UGICAL BRANCH G ESSMENT REPOP" ASS 173/ Figure 28 MF - METAL FACTOR Scale 1:5000 HERA RESOURCES INC. NSTRUMENTS : HUNTEC MARK I (ohm-meter-msec) IME DOMAIN : FREQUENCY = Yg sec TIME DELAY= 200 msec meters **REY LAKE PROPERTY** INTEGRATION INTERVAL = 10 x 1: 0 msec NTS 92 I-7E Nicola Mining Division, B.C. TRANSMITTER POWER : 7.5 KW P. CONTOURS : 100, 200, 300, 500 PPARENT RESISTIVITY : pa = TTan (n+1)(1+2)(V/I) Line 51 + 00N Pseudo Section M CONTOURS: 25,50 **Rey Lake Grid** MF CONTOURS: 25, 75, 150,300 M.J. To accompany a report by: M. Falk, Geophysicist Date: April 1993 Drawn By: MF Plotting Point

VOTES

a: spacing = 50 meters

ELECTRODE CONFIGURATION

DIPOLE - DIPOLE ARRAY



159+00 N L 58 +00 N L 57+00 N L 56+00 N 1.1 L 55+ 00 N L 54+00 N L 53+00N L 52+00 N L 51+00N

160+00 N

L61+00 N

Figure 29 NTS 92 1-7E

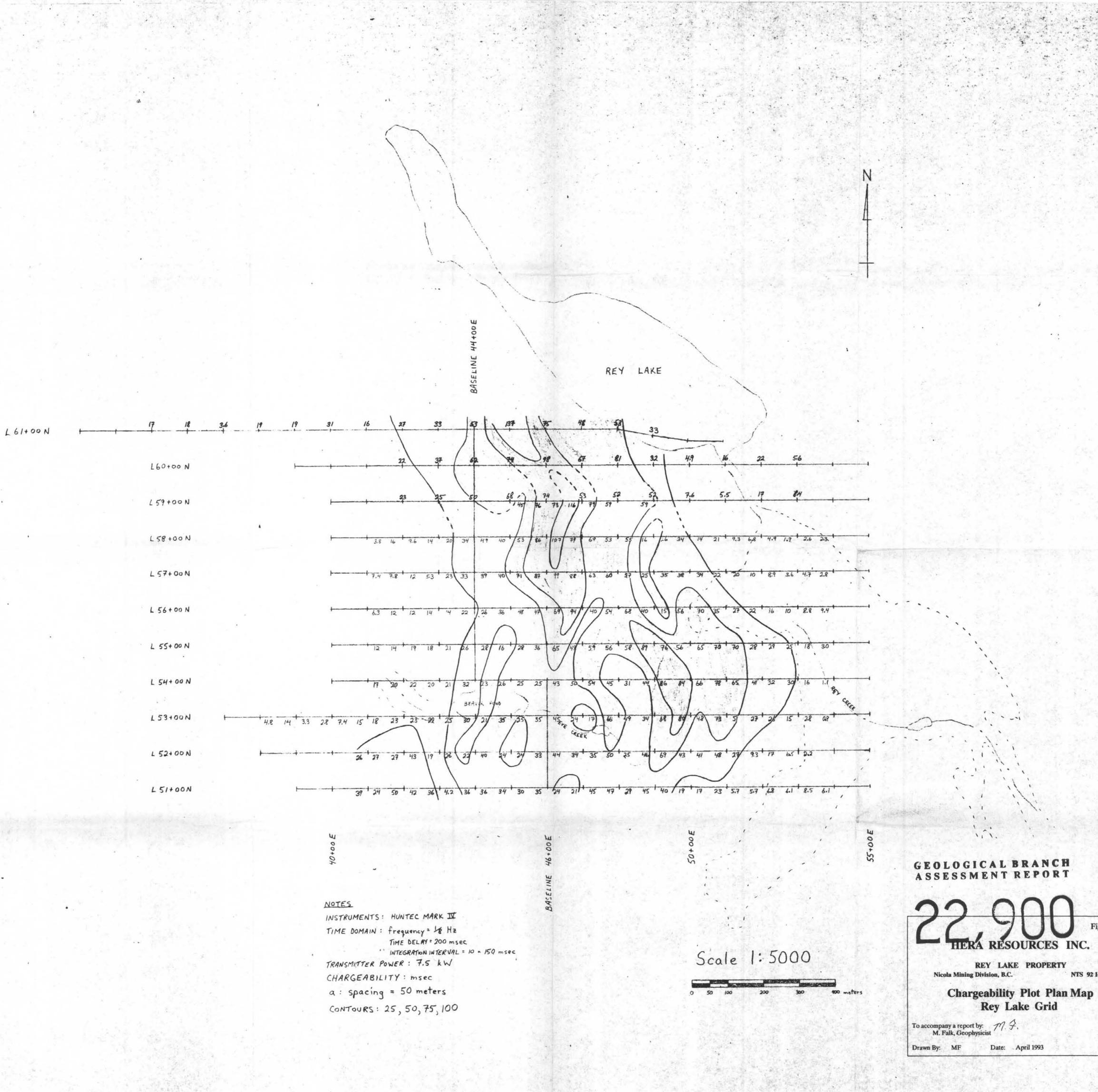


Figure 30 NTS 92 1-7E