DONALD W. SMELLIE, P. ENG. CONSULTING ENGINEER

1666 WEST BROADWAY VANCOUVER 9, B.C. 731-6584

3466

GEOPHYSICAL AND GEOCHEMICAL REPORT

ANN GROUP ENDAKO, OMINECA M.D.

54° /25° S.E.

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FIGURES: PLAN SHOWING GEOCHEMICAL RESULTS AND I.P. LINES

1 i.p. lines 8s, 16s, 24s, 32s, 40s, BASE LINE 2 3 4 5 6 7

#8 Index Map

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NO. \$466 MAP

INTRODUCTION

Geochemical soil and Induced Polarization surveys have been carried out on the ANN group. This is located 6 miles west of the town of Endako. It is owned by Canwex Explorations Ltd. (N.P.L.). Geochemical field work was carried out by the author assisted by D. Reinke on October 10, 1970, and by D. Reinke assisted by J. Ray on October 24, 25, 26, 27, 1970, under the supervision of the author. The Induced Polarization survey was carried out on October 2 - 6, 1971, inclusive, by a crew from McPhar Geophysics Limited under the supervision of the author. Work was carried out on claims ANN 1-6 inclusive.

INSTRUMENTATION

For the induced polarization survey, a McPhar variable frequency I.P. unit was used. The Sender supplied a preset constant current that is applied to the ground through two electrodes. The voltage between two potential electrodes is passed into the Receiver. A meter is nulled at one frequency and gives a direct reading of the percent frequency effect at a second frequency. From the applied current and received potential, the apparent resistivity of the medium may be calculated. The metal factor is calculated from the percent frequency effect and apparent resistivity.

FIELD PROCEDURE

Geochemical soil samples of the C horizon were taken at 100 ft. intervals along the Base Line using a spade. They were packaged in wet kraft heavy duty envelopes specially designed for soil samples. They were air dryed, and screened in an 80 mesh stainless steel screen. Analyses were carried out by Bondar-Clegg & Company Ltd. For molybdenum, pyrosulphate fusion was followed by a colorimetric determination, for copper, hot acid extraction with atomic absorption determination. For the geophysical survey, the electrodes were in a collinear array, with the current electrodes separated by a distance "a". The potential electrodes are also separated by a distance "a". The nearest current and potential electrodes are separated by a distance "na" where n= 1, 2 or 3. By varying n, the senderreceiver spacing, one obtains a depth-probing effect, since the effective depth of exploration varies with this spacing. The results are plotted at the intersection between 45 degree diagonal lines drawn from the mid-points of the sender and receiver dipoles. Above the upper reference line are plotted the resistivity values $(\rho_x/2\pi)$, below it the metal factor (M.F.). The row of data nearest the reference line corresponds with n= 1 values, the second row n = 2 and the third n = 3. Below the lower reference line are values of Percent Frequency Effect (F.E.).

RESULTS

The geochemical survey showed anomalous molybdenum values at 21S and 41S on the Base Line.

The results of the Induced Polarization survey are plotted on the accompanying sectional diagrams. The lines surveyed are shown on the accompanying Plan. The electrode spacing a used was 300 ft., the operating frequencies 5 and 0.3 Hz. Anomalies occurred on the Base Line at 33 - 48S, L40S 9E - 9W, L32S 3E - 3W, L24S 0 - 3W, L16S 0 - 3W. Despite their low amplitude, these anomalies are considered to be significant in this environment.

Respectfully submitted

D.W. Smellie, P. Eng.

Allamelli

DWS:sm

October 12, 1971

DONALD W. SMELLIE, P. ENG.

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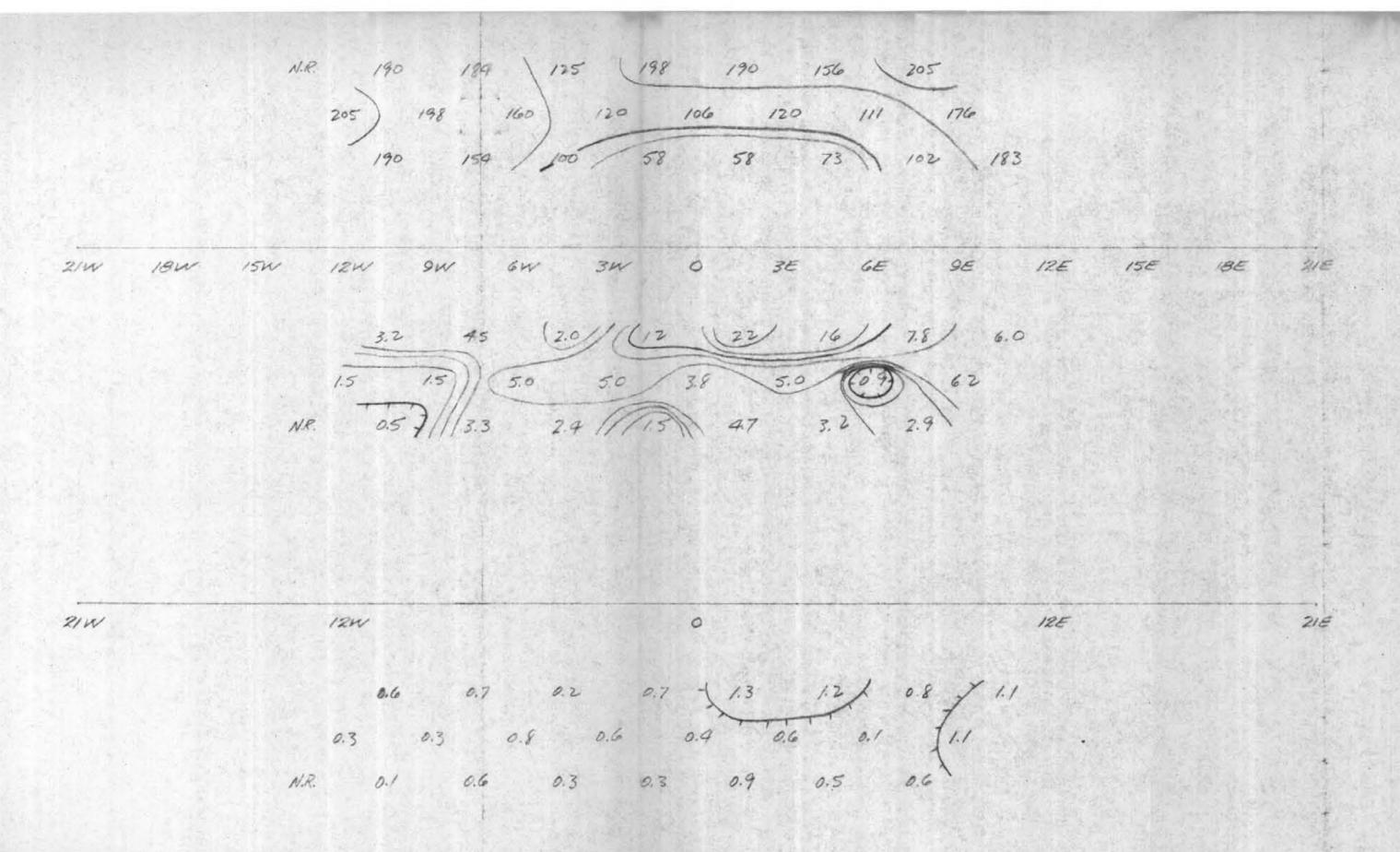
OCT. 10, 24 - 27, 1970 OCT. 2 - 6, 1971

D. Reinke, 5 days	\$ 225.00
J. Ray, 4 days	140.00
Field expenses	88.40
Geochemical analyses	134.20
McPhar Geophysical Crew - D. Broswick, D. Adams	
Crew charge	960.00
Field expenses	733.00
D.W. Smellie - Supervision and	
Interpretation - 3 1/2 days	 875.00
	\$ 3,055.60

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L145 L 245 L 325 L85 L 405 ANNI ANN 5 ANN 3 879 11 6 5 7 6 9 10 7 9 6 114 7 16 8 8 10 5 6 6 7 7 8 5 4 9 14 10 6 5 7 7 7 9 C. ANN 2 ANN 4 ANN G

3466 M- GROUP, ENDAGO ALEA OCT. 1974 112 490 PT



CANWEX EXPLORATIONS LTD. (N.B.L.)

ANN CLAIMS

ENDARO B.C.

H.R.-IR. DIPOLE-DIPOLE

I INCH = 300 FEET N.3

03 +5 HZ.

OCTOBER 5 1971

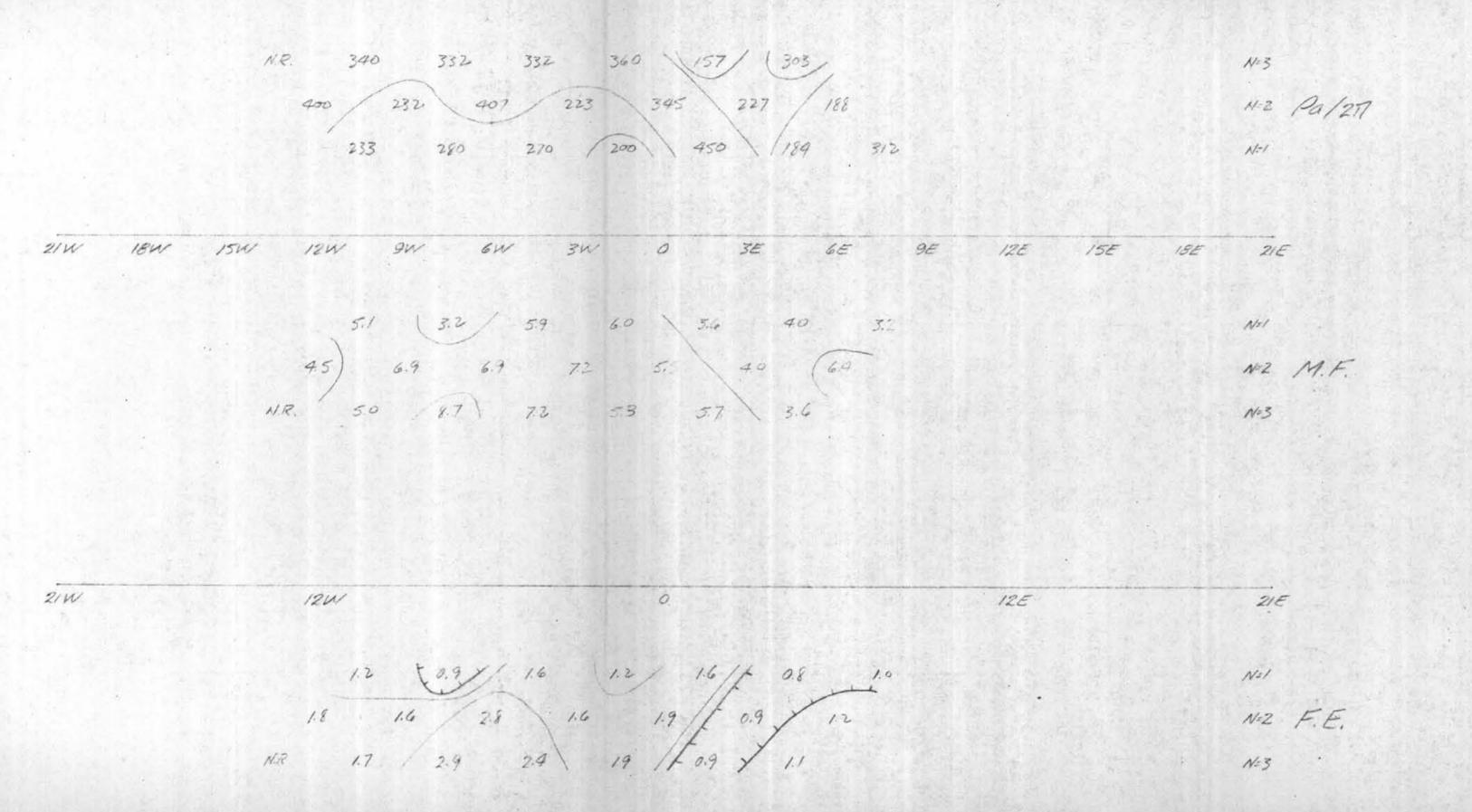
LINE 8 SOUTH

DATA BY BROSWICK

N.R. - NO READING TAKEN

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+200' DROP >



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ANN CLAIMS

ENDAKO B.C.

H.P.-I.P. DIPOLE - DIPOLE

IINCH - 300 FEET N=3

03 = 5 HZ.

OCTOBER 5 1971

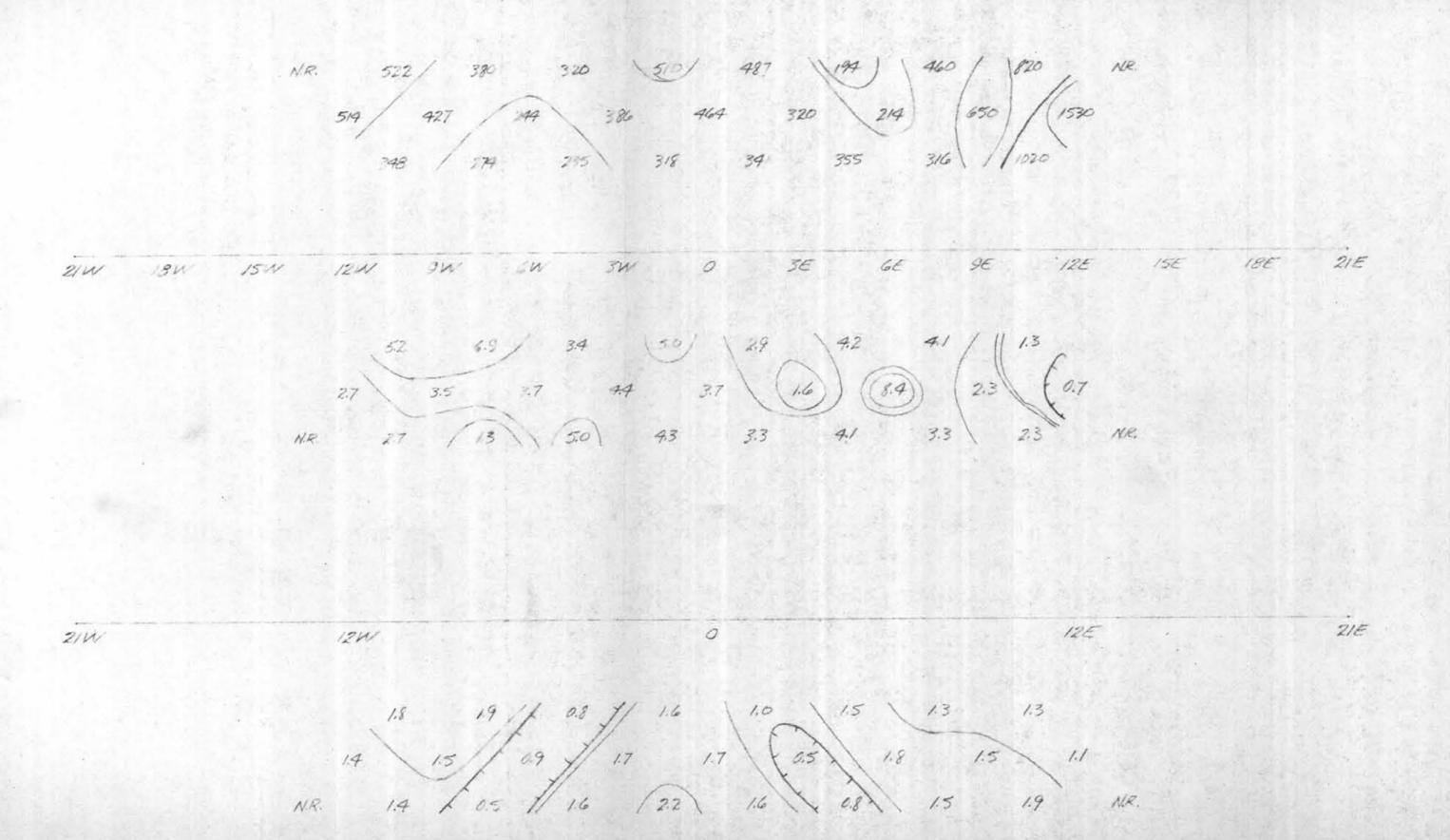
LINE 16 SOUTH

DATA BY BROSWICK

N.R. - NO READING TAKEN

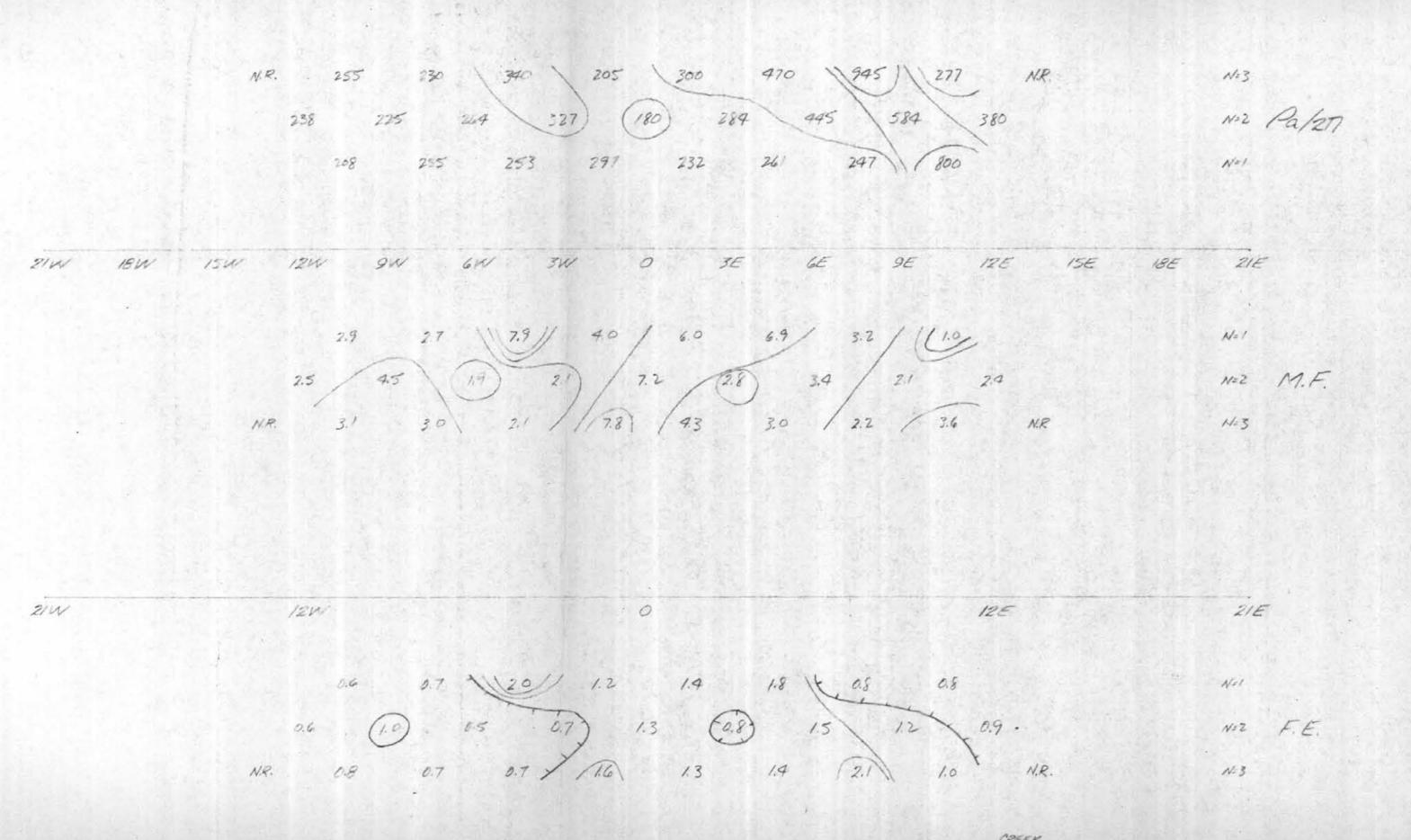
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105 END OF CUT LINE



CANWEX EXPLORATIONS LTD. (N.AL.) ANN CLAIMS ENDAKO B.C. 4.P. - I.A DIPOLE - DIPOLE 1 INCH = 300 FEET N=3 0.3 45 HZ OCTOBER 4 1971 LINE 24 500TH DATA BY BROSWICK N.R. - NO READING TAKEN

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CANWEX EXPLORATIONS 2TO. (N.P.L.)
ANN CLAIMS
ENDARO B.C.
H.P.-I.P. DIPOLE-DIPOLE
1 INCH = 300 FEET N=3
0.3 + 5 HZ.
0CTOBER 4 1971
LINE 32 SOUTH
DATA BY BROSWICK

Department of

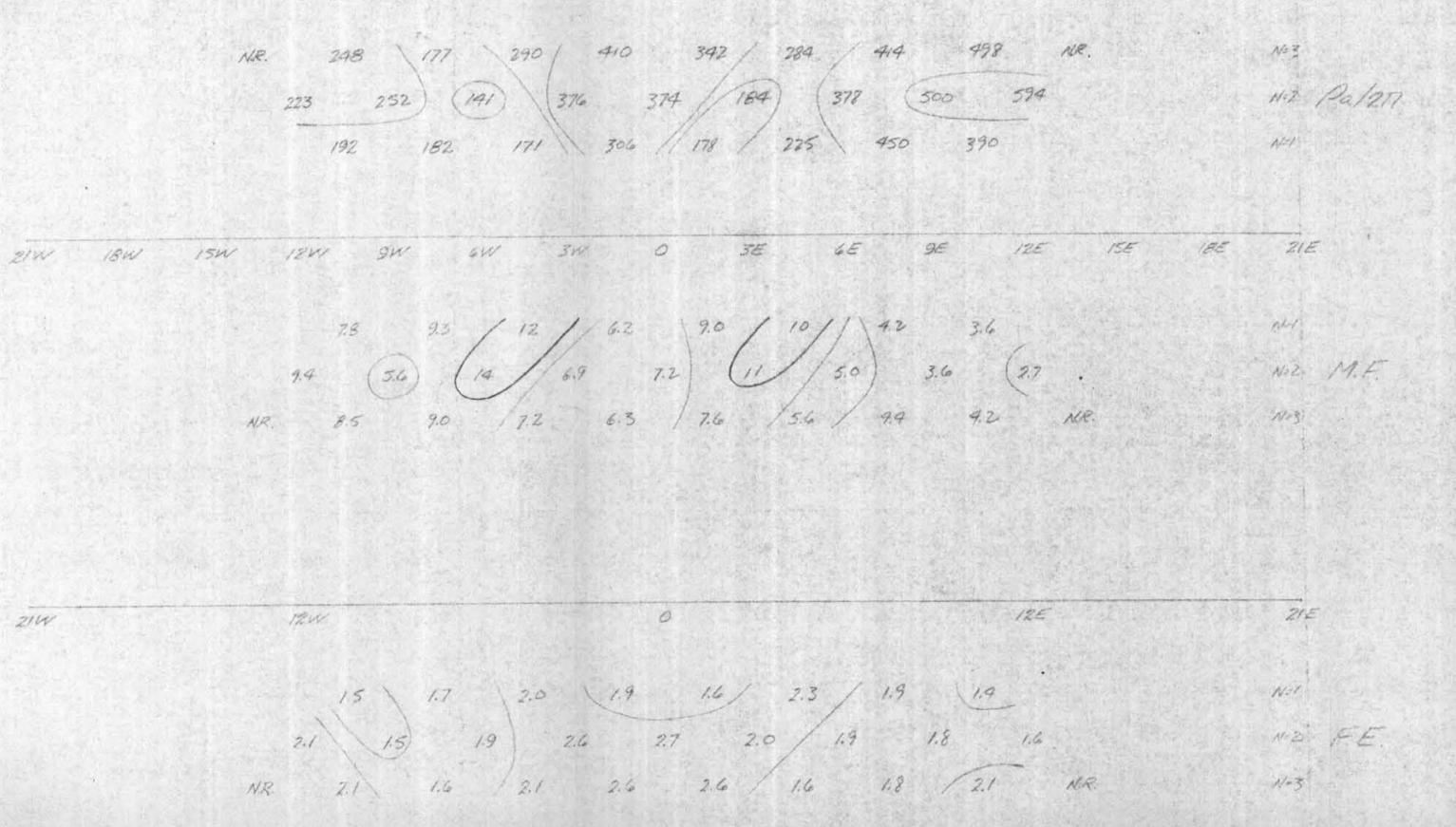
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canyon solder

2 4 1



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ANN CLAIMS

ENDARO S.C.

H.R.-IR DIPOLE-DIPOLE

IINCH = 300 FEET N=3

0.3 = 5 H2.

OCTOBER 3 1971

LINE 40 50UTH.

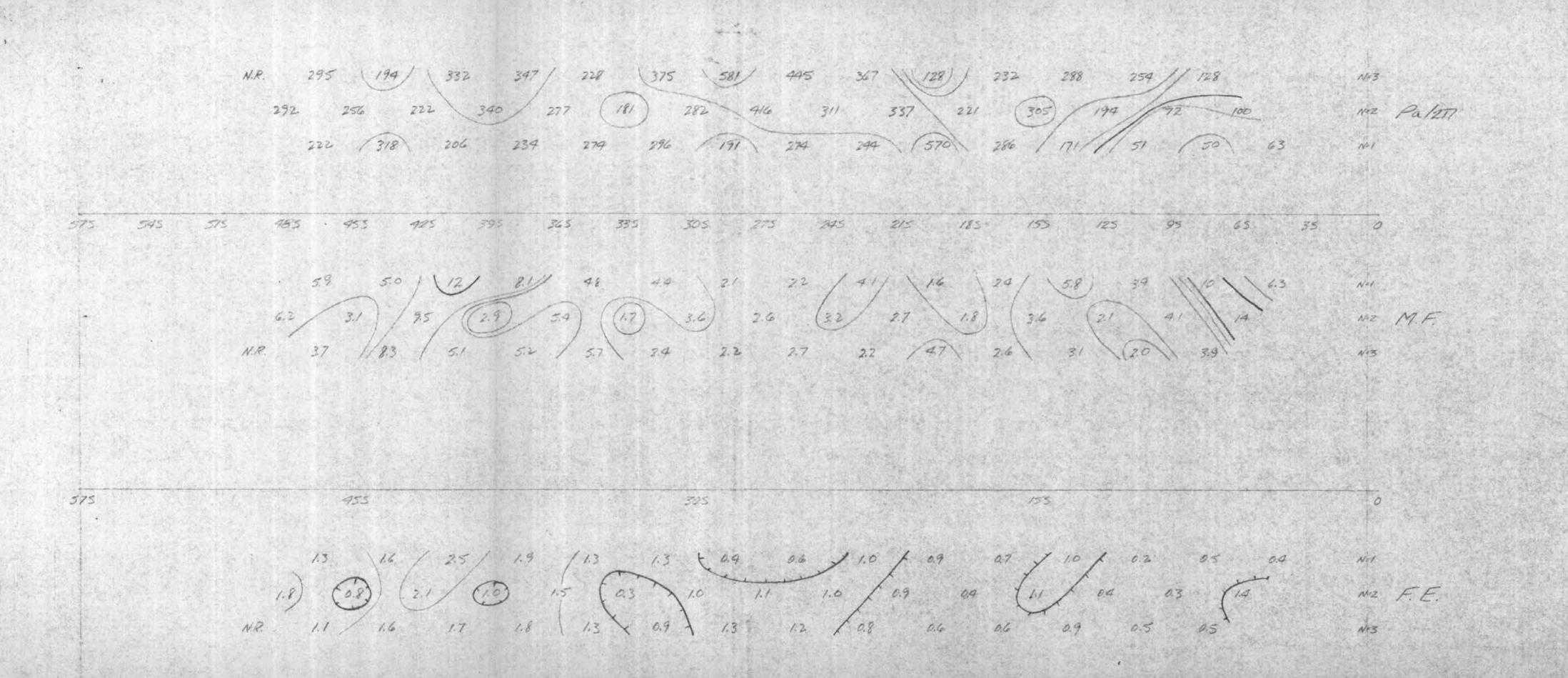
DATA BY BROSWICK

NR-NO READING TAKEN

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E ALONS ORCEK-



+ SWAMP-

CANWEX EXPLORATIONS LTD. (W.P.L.)
ANN CLAIMS
ENDARD B.C.
H.R.-I.R. DIPOLE - DIPOLE
1 INCH - 300 FEET N-3
0.3 4 5 HZ
0CTOBER 3 1971
BASE LINE
DATA BY BROSWICK

NR. - NO READING TAKEN

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CANWEX EXPLORATIONS LTD (N PL.)

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