

1975 GEOPHYSICAL REPORT ON
THE RED GROUP

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5552 MAP

DATE: JUNE, 1975.

BY: G.M. DEPAOLI,
GEOPHYSICIST, B.Sc.

5552

1975 GEOPHYSICAL REPORT ON THE RED GROUP

located in

NORTHERN BRITISH COLUMBIA

in the

OMENICA MINING DIVISION

94D/3E

approximately

100 MILES NORTH-NORTHEAST OF SMITHERS

at coordinates

$56^{\circ}15'$ N. LAT.; $127^{\circ}12'$ W. LONG.

work for

CANADIAN SUPERIOR EXPLORATION LIMITED

work by

MORRISON & DEPAOLI
GEOPHYSICAL CONTRACTORS & CONSULTANTS

work period

MAY 21 TO JUNE 4, 1975.

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INTRODUCTION

The Red Group Mineral Prospect is located in Northern British Columbia and consists of 89 mineral claims owned by Canadian Superior Exploration Limited. The economic viability of copper sulphide mineralization occurring in a limestone host rock is currently under investigation. During the period May 22 to June 3, 1975 a total of 12 line miles of induced polarization / resistivity surveying were completed over the property. The following report describes the instrumentation, field procedure and results obtained from the survey.

The work was executed by MORRISON & DEPAOLI, Geophysical Contractors and Consultants upon the request of Canadian Superior Exploration Limited and under the supervision of J. Baker.

Location and Access

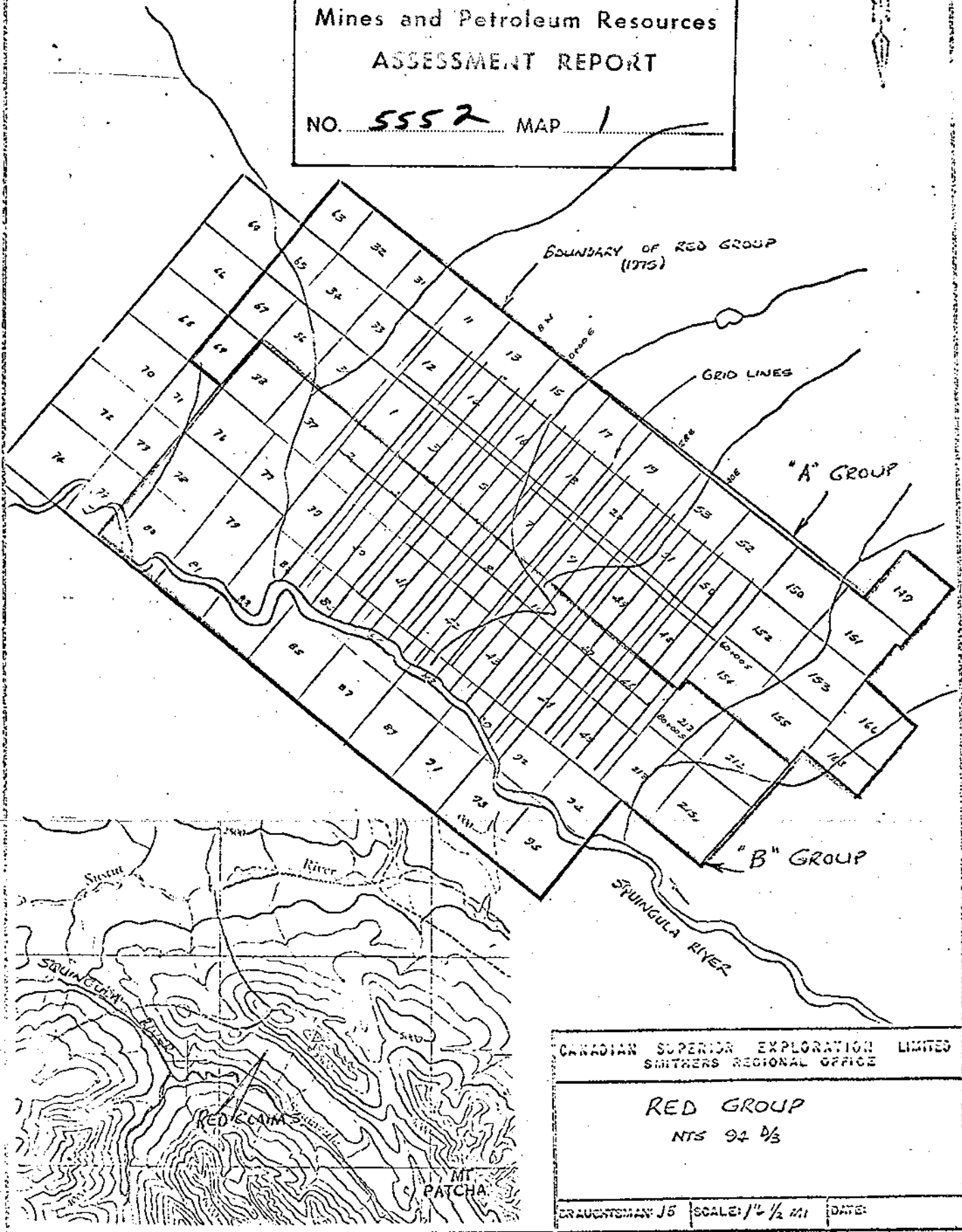
The property is located in Northern B.C. approximately 100 miles north-northeast of Smithers or 10 miles east of Bear Lake Airstrip. It lies within the Omenica Mining Division at coordinates $56^{\circ}15'$ N. Latitude, $127^{\circ}12'$ W. Longitude. (See Location Map Figure 1) Access to the property is by air on B.C. Railway to Bear Lake and then by helicopter to the grid area.

Grid Control

The control grid consists of 15 miles of cut, chained and flagged lines. Two baselines have been cut 5,200 feet long and 2000 feet apart. The baselines trend east-west and are labelled 60+00 S and 80+00 S. Thirteen perpendicular cross

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NO. 5552 MAP 1



lines were cut at 400 foot intervals. Lines were emplaced by compass.

GENERAL GEOLOGY

The property lies within a sequence of Lower Jurassic Volcanics. Interest is focussed on a limestone basin within a volcanoclastic sequence. Chalcopyrite, chalcocite, minor bornite and minor pyrite mineralization occurs as disseminations within the limestone unit. It is thought that the mineralization is associated with Jurassic volcanism.

The prospect was discovered by a reconnaissance program undertaken by Canadian Superior Exploration Limited in the early 1970's. During 1972 Canadian Superior Exploration Limited completed a first stage diamond drill program on immediate target areas.

INDUCED POLARIZATION SURVEY

INTRODUCTION AND THEORY

Limited and poor outcrop exposure and possible masking of the limestone unit by thin sequences of volcanics or pyroclastics prompted the undertaking of an induced polarization / resistivity survey. Because of the nature of the mineralization only a very subtle, if any, induced polarization response was expected, however a sharp high resistivity contrast was anticipated from the limestone host rock.

The term induced polarization means the electrical separation (ie. separation of charges) induced by an applied electric field. The cause of this polarization is changes in the mobilities of ions within a rock. At the interfaces between zones of different mobilities, excesses or deficiencies of ions occur; the concentration

gradients developed oppose the current flow and cause a polarizing effect. When mineral grains block the pore passages of rocks and a current is applied, a concentration of ions builds up at the electrolyte (water) - metal interface while awaiting an electrochemical reaction which must occur before the electric charge can be transferred from an ion in the electrolyte to a free electron in the metal. The forces which oppose the current flow are said to polarize the interface and the added voltage necessary to drive the current across the barrier is known as overvoltage.

It takes a finite time to build up overvoltage and one finds that the impedances of the zones (Warburg Impedance) decreases with increasing frequency. In the frequency domain system that was employed the decrease in the Warburg Impedance was measured between current applied at 0.3 hertz to current applied at 5.0 hertz.

INSTRUMENT AND PROCEDURE

A multiple frequency McPhar Induced Polarization System Model P-660, was employed in measuring the polarization and resistivity parameters. The transmitter is a manually variable voltage source. The output current can be selected from both polarities and varies from direct current to automatically alternating output frequencies of 0.05, 0.1, 0.3, 1.25, and 5.0 hertz.

On this survey the low and high frequencies employed were 0.3 and 5.0 hertz. Power was obtained from a $2\frac{1}{2}$ KW - 400 hertz motor generator. The maximum output current for the transmitting system is 5.0 amp. while the maximum output voltage is 690 volts.

The receiver employed was the A.C. P-660 Model. This is a potentiometer type where the amplified and filtered signal is compared with a reference voltage. It is powered by six 9 Volt alkaline transistor batteries and draws 7.5 ma. Total weight including carrying case and batteries is 2.2 kilograms.

A symmetrical in line dipole-dipole array was employed in the survey. The dipole length was 200 feet and measurements were taken to 4 separations (N=1,2,3,4.) Survey procedures required the preparation of a "set-up" station near the center of each line. The transmitter and its motor generator power supply remained stationary at the set-up position and wires in increasing 200 foot intervals were strung out in both directions. Care was taken to ensure that the wires were well separated to prevent inductive coupling effects. The ends of the wires were connected to 4 foot stainless steel rods which had been hammered into the ground. Where possible the receiving dipole also utilized the stainless steel rods for electrode connections. Once the receiver dipole moved past the last steel rod ground connections were made via porous pots. Radio contact between the receiver and transmitter operators coordinated power "on" and "off" periods.

PRESENTATION OF DATA

The data is plotted in 13 pseudosections, Figures 3a-m after page 12. The pseudosections are vertical profile plots displaying apparent resistivities in $\frac{\rho_a}{2\pi}$ ohm-feet, calculated metal factors and percent frequency effect values. Contoured plan maps of the second separation (N=2) apparent resistivity and percent frequency effect data have also been prepared in Figures 4 and 5 respectively. An interpretation of the data is presented in Figure 6.

RESULTS AND INTERPRETATION

A high apparent resistivity anomaly greater than 750 ohm-feet dominates the grid area. As shown in Figure 4 the resistivity high strikes true north and has a general width of 800 feet. It extends for 3800 feet and is still open on the northwest corner of the grid. A second and possibly related resistivity high occurs in the southeast corner of the grid area. This anomaly is also open to the south. Several more minor and possibly connected resistivity highs are indicated throughout the remainder of the survey area.

The two major resistivity highs have coincident and subtle 3% PFE anomalies. (See Figure 5) As a general statement the higher PFE values favour the south western side of the resistivity highs.

On the basis of diamond drilling results, surface geological mapping and personal communication with John Baker an arbitrary decision was made to interpret apparent resistivity values greater than 1000 ohm-feet as indicative of limestone. Employing this assumption a detailed pseudosection analysis was carried out in an effort to determine conservative limestone boundaries and relative dip on each line. The surface projection of deduced limestone boundaries and interpreted interline continuity is displayed in Figure 6. As a result of this study 3 major zones of limestone emerge. Several narrow indications of "limestone" which were obtained at depth are also plotted in Figure 6.

Contoured apparent resistivity and PFE values reveal coincident northwest and northeast trends. Several of these have been attributed to faulting as shown in Figure 6.

CONCLUSIONS

Known economic mineralization is characterized by apparent resistivities greater than 1000 ohm-feet with a coincident PFE response of 3% or greater. It is felt that all of the deduced limestone zones have potential, however unmineralized limestone is also known to occur on the property. In an effort to screen unmineralized limestone, areas of deduced limestone having a coincident PFE response of greater than 3% have been shaded in Figure 6. Three drill holes have recommended to test these areas.

Interpreted faulting patterns allow for the possibility that the three deduced limestone zones were once one continuous unit.

RECOMMENDATIONS

1. The following diamond drill holes are recommended to test similar induced polarization responses to those obtained over known mineralization.
 - a) 4+00 W, 66+00 S -- 600 feet at -90° .
 - b) 4+00 E, 81+60 S -- 400 feet at -90° .
 - c) 32+00 E, 90+50 S -- 400 feet at -90° .
2. The narrow, deep indications of limestone should only be considered for further exploration if encouragement is obtained from the above drilling.
3. A ground proton precession magnetometer survey over the entire grid at 100 foot station intervals may detect a magnetic susceptibility contrast between the limestone and volcanic units and confirm the interpreted faulting directions.

RESPECTFULLY SUBMITTED

Gerry DePaoli

G.M. DEPAOLI,
GEOPHYSICIST, B.Sc.

JUNE 28, 1975
SMITHERS, B.C.

CERTIFICATION

I Garry M. DePaoli, of the city of Burnaby, in the Province of British Columbia, HEREBY CERTIFY AS FOLLOWS:

1. That I am a graduate of the University of British Columbia, Vancouver, British Columbia with a Bachelor of Science Degree in Combined Honours Geophysics and Geology. (1969)
2. That I have practiced my profession as a Geophysicist continuously for the past 6 years in Northern Ontario, Quebec, Manitoba, Western U.S.A., Yukon Territories, and British Columbia.
3. That I am a member in good standing of the Society of Exploration Geophysicists, The Geological Association of Canada, The Canadian Institute of Mining and Metallurgy, and the B.C. Society of Exploration Geophysicists.
4. That I have no interest directly or indirectly in the RED GROUP PROSPECT nor do I expect to receive any.
5. That the information contained herein was compiled under my direction and supervision during the period May 21 to June 4, 1975.

G.M. DEPAOLI,
GEOPHYSICIST, B.Sc.

June 28, 1975
Smithers, B.C.

CERTIFICATION

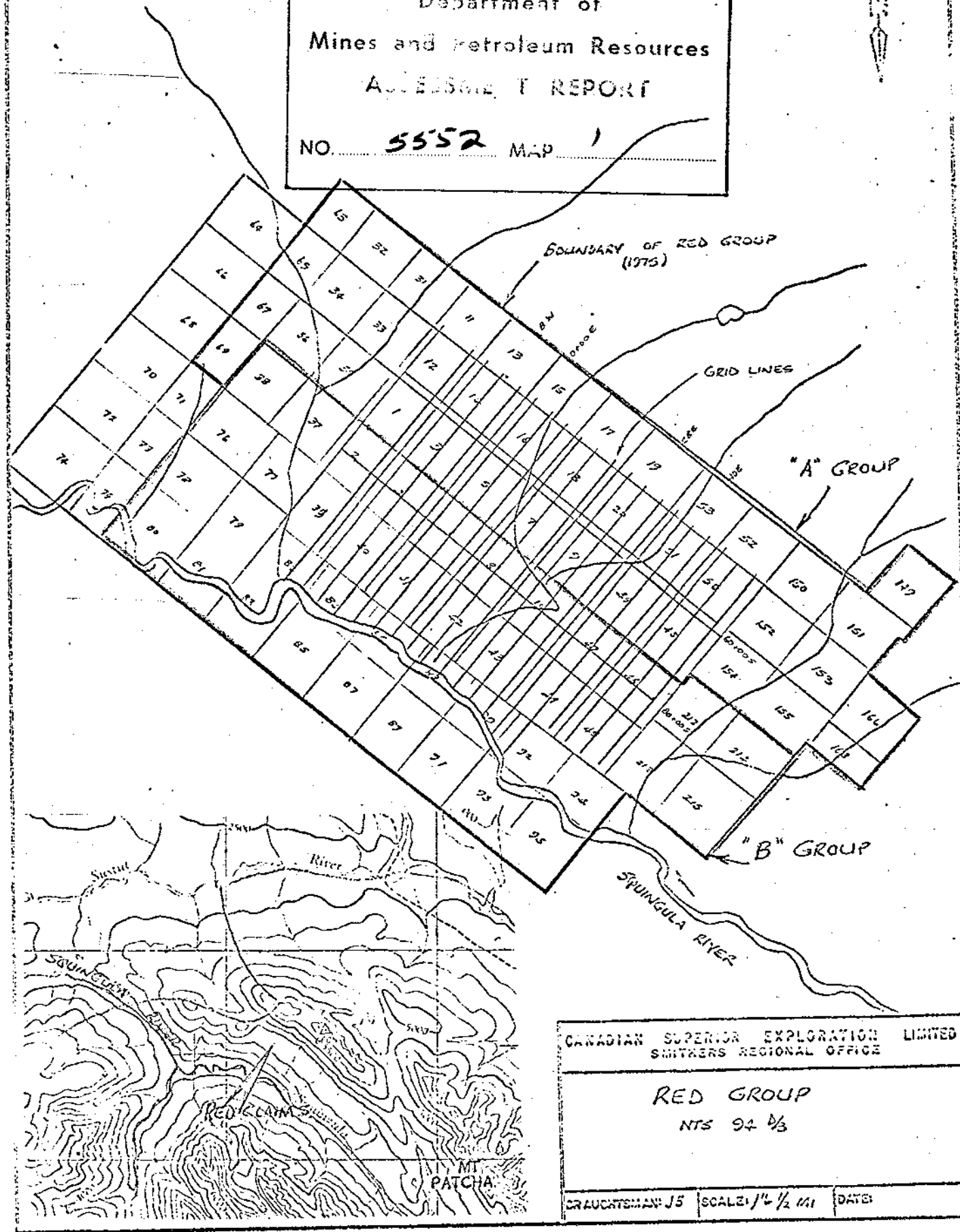
I Dennis F. Morrison, of the Village of Washago, in the Province of Ontario, HEREBY CERTIFY AS FOLLOWS:

1. That I attended the University of Waterloo for two years enrolled in the Faculty of Science.
2. That I was employed as an electronic technician with Bell Canada in Ontario during the period 1964 - 1967.
3. That I was employed as a Geophysical Induced Polarization Operator with McPhar Geophysics during the period 1967 - 1970.
4. That I have operated as an independent Induced Polarization Contractor continuously since 1970 to the present.
5. That I have induced polarization surveying experience in Newfoundland, Nova Scotia, New Brunswick, Quebec, Ontario, Manitoba, British Columbia, Yukon and Northwest Territories, and the Republic of Panama.
6. That I have no interest directly or indirectly in the RED GROUP PROSPECT nor do I expect to receive any.

D.F. MORRISON

June 28, 1975
Smithers, B.C.

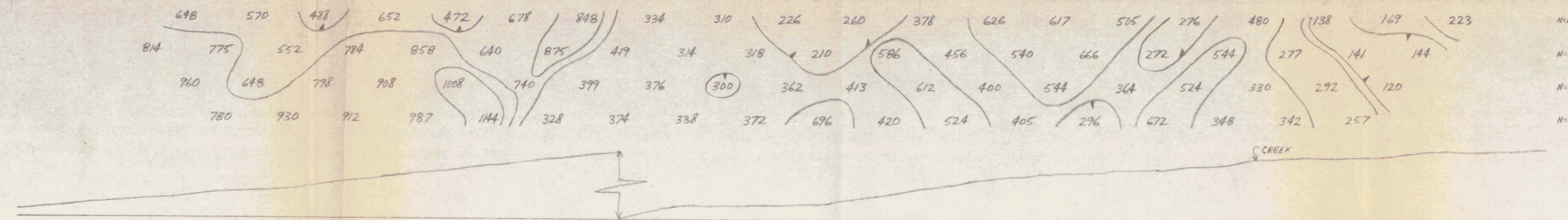
Department of
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 ACCESSIBILITY REPORT
 NO. 5552 MAP 1



CANADIAN SUPERIOR EXPLORATION LIMITED
 SMITHERS REGIONAL OFFICE
 RED GROUP
 NTS 94 1/2
 DRAUGHTSMAN JS SCALE 1/4 1/2 IN DATE

LINE 40 E

94 S 92 S 90 S 88 S 86 S 84 S 82 S 80 S 78 S 76 S 74 S 72 S 70 S 68 S 66 S 64 S 62 S 60 S 58 S 56 S 54 S 52 S 50 S 48 S

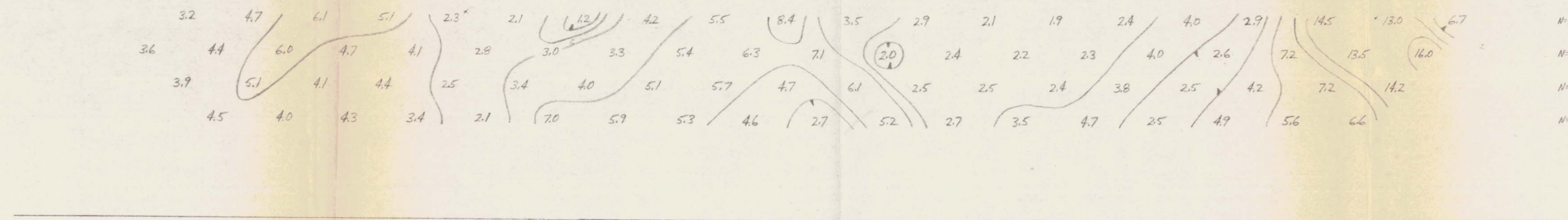


$\frac{P(\omega)}{2\pi}$
OHM FEET

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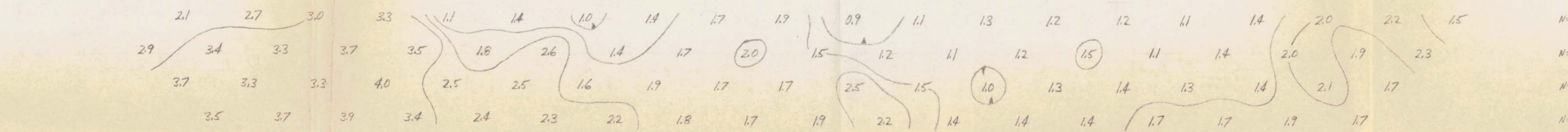
P-660 FREQUENCY DOMAIN I.P.
DIPOLE - DIPOLE ARRAY
0.3 AND 5.0 HERTZ
OPERATORS: MORRISON + DEPAOLI

SCALE: 1" = 200'
DATE: MAY 26, 27 1975



M.F.

LINE 40 + 00 E

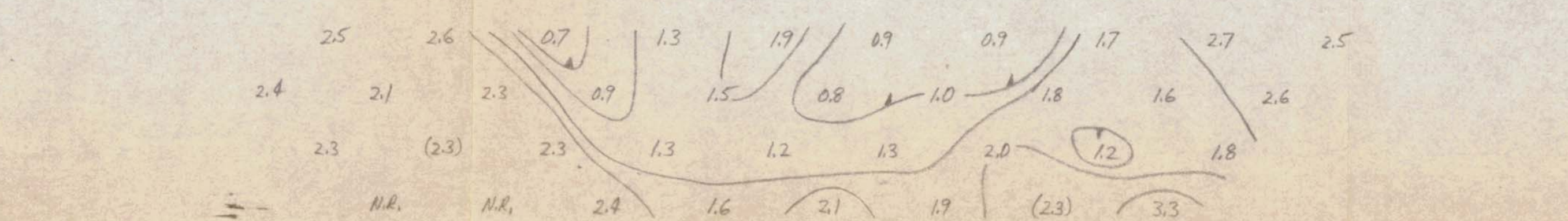
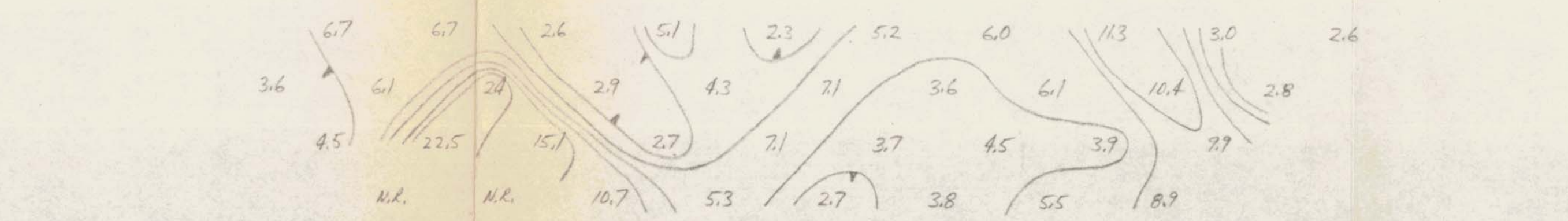
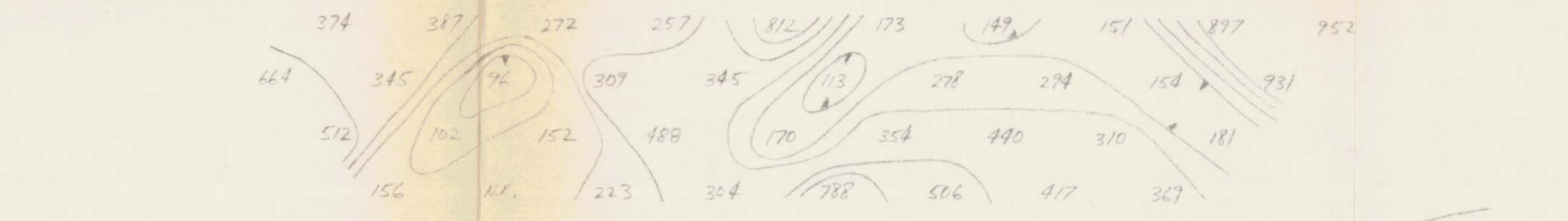


F.E.

5552
FIG. M

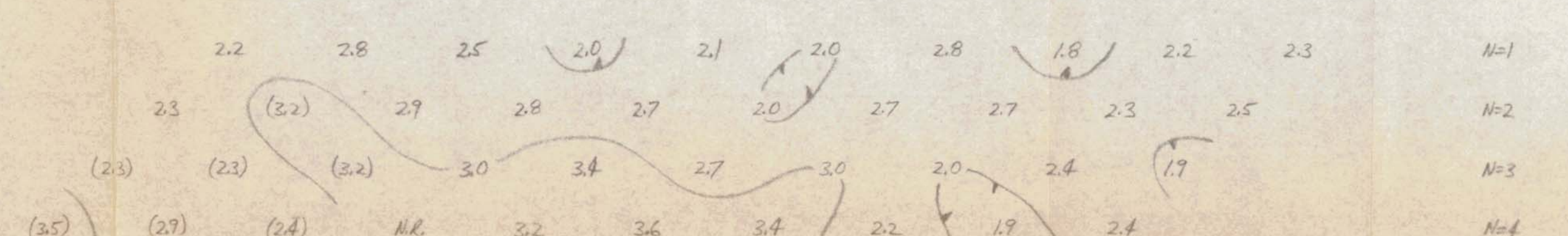
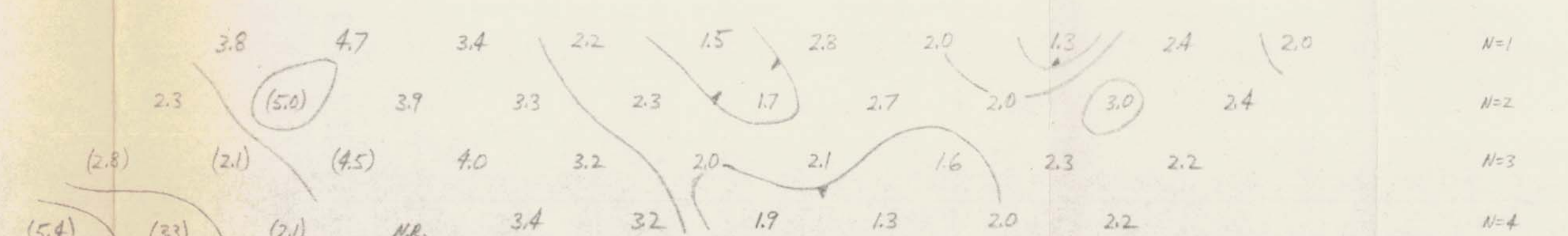
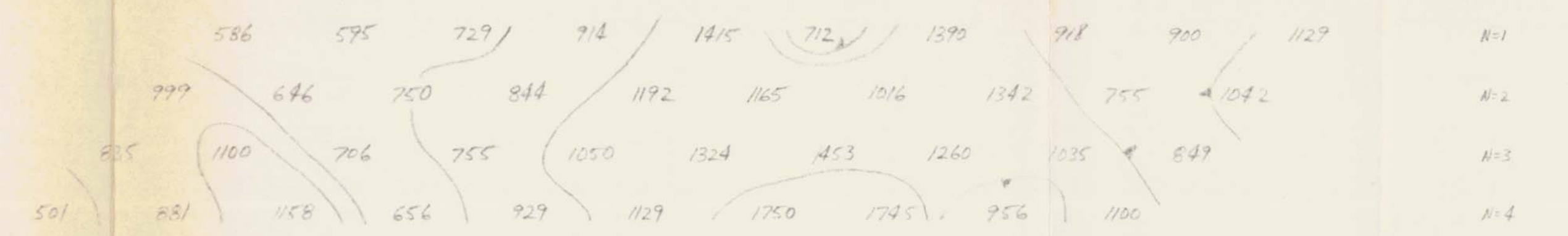
LINE 8W

94S 92S 90S 88S 86S 84S 82S 80S 78S 76S 74S 72S 70S 68S



NOTE SOUTHERN END
OF LINE NOT CUT.
SURVEY CONTROL IS
OLD FLAGGED LINE
FLAGGED LINE MERGES
WITH CUT SEGMENT
OF LINE 12W AT
STATION 72+50
(SEE PLAN MAP)

78S 76S 74S 72S 70S 68S 66S 64S 62S 60S 58S 56S 54S 52S 50S 48S



Play/2T
OHM - FEET

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P-660 FREQUENCY DOMAIN I.P.
DIPOLE - DIPOLE ARRAY
0.3 AND 5.0 HERTZ
OPERATORS: MORRISON + DEPAOLI

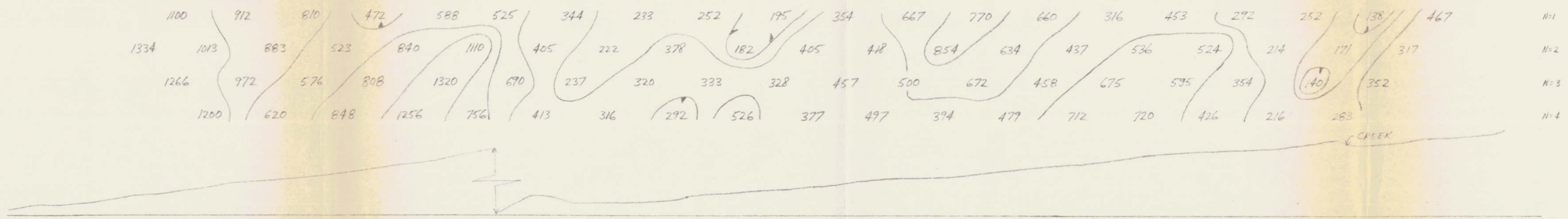
SCALE: 1" = 200'
DATE: JUNE 12, 1975

LINE 8+00W

5552
FIG. A

LINE 36 E

945 925 905 885 865 845 825 805 785 765 745 725 705 685 665 645 625 605 585 565 545 525 505 485

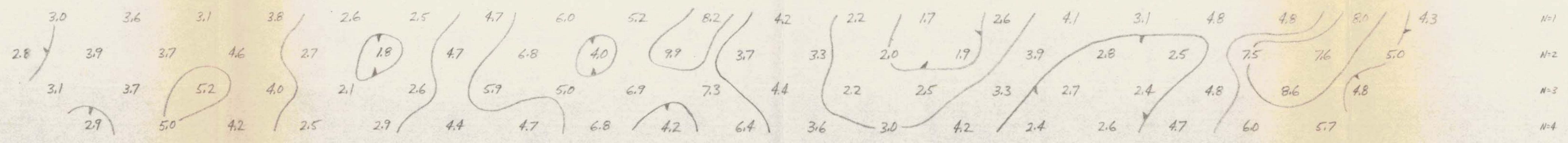


$\frac{\rho_{(a)}}{2\pi}$
OHM FEET

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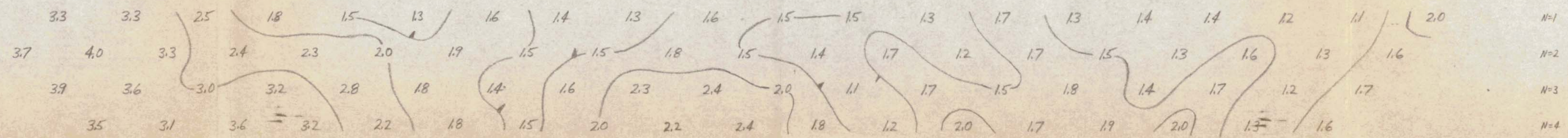
P-660 FREQUENCY DOMAIN I.P.
DIPOLE - DIPOLE ARRAY
0.3 AND 5.0 HERTZ
OPERATORS: MORRISON + DEPAOLI

SCALE: 1" = 200'
DATE: MAY 26, 27 1975



M.F.

LINE 36+00 E



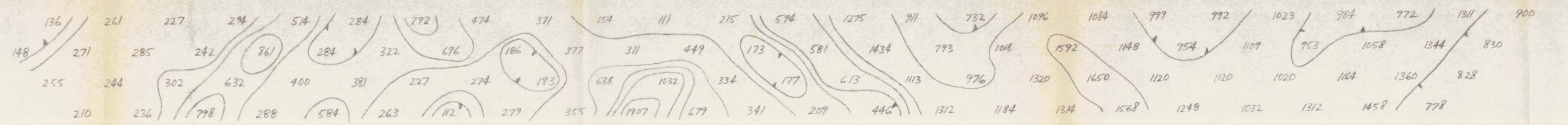
F.E.

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FIG. L

LINE 4W

1045 1025 1005 985 965 945 925 905 885 865 845 825 805 785 765 745 725 705 685 665 645 625 605 585 565 545 525 505 485

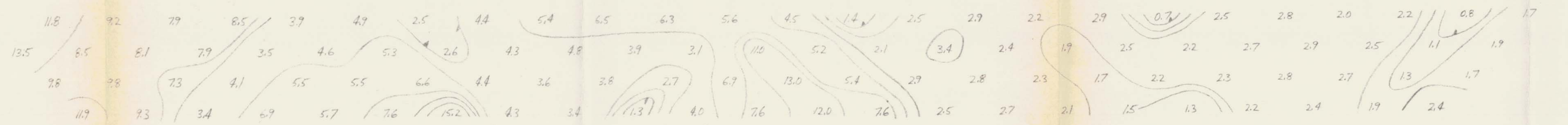
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200
OHM FEET

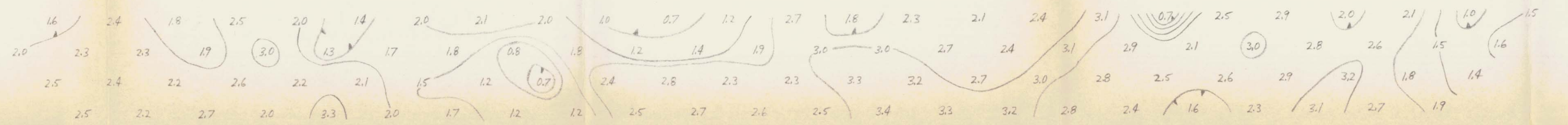
P-660 FREQUENCY DOMAIN I.P.
DIPOLE - DIPOLE ARRAY
0.3 AND 5.0 HERTZ
OPERATORS: MORRISON + DEPAOLI

SCALE: 1" = 200'
DATE: MAY 23, JUNE 1, 2 1975



M.F.

LINE 4+00 W

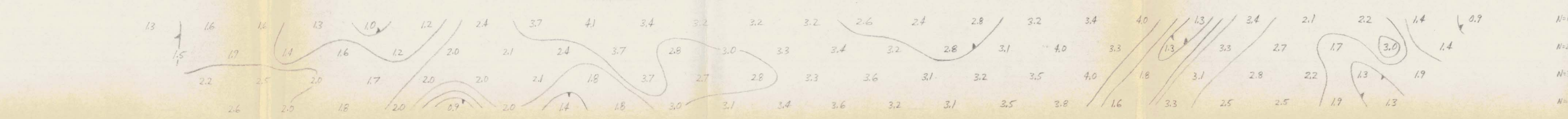
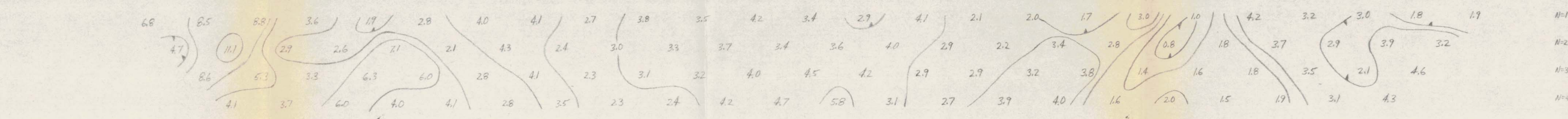
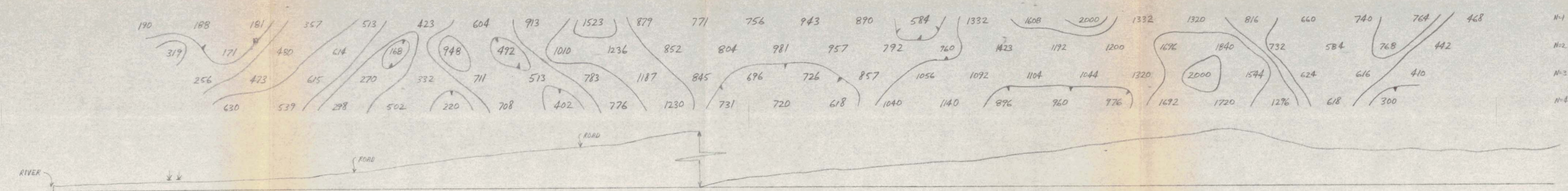


F.E.

SSS2
FIG. B

LINE 0 E

1025 1005 985 965 945 925 905 885 865 845 825 805 785 765 745 725 705 685 665 645 625 605 585 565 545 525 505 485



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RED GROUP
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P-660 FREQUENCY DOMAIN I.P.
DIPOLE - DIPOLE ARRAY
0.3 AND 5.0 HERTZ
OPERATORS: MORRISON + DEPAOLI

SCALE: 1" = 200'
DATE: MAY 22, 23, 31 JUNE 3, 1975

$P(x)/2\pi$
OHM FEET

M.F.

LINE 0+00 E

F.E.

5552
FIG. C

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P-660 FREQUENCY DOMAIN I.P.
 DIPOLE - DIPOLE ARRAY
 0.3 AND 5.0 HERTZ
 OPERATORS: MORRISON + DEPAOLI

SCALE: 1" = 200'
 DATE: MAY 22, 31 JUNE 3, 1975

LINE 4+00E

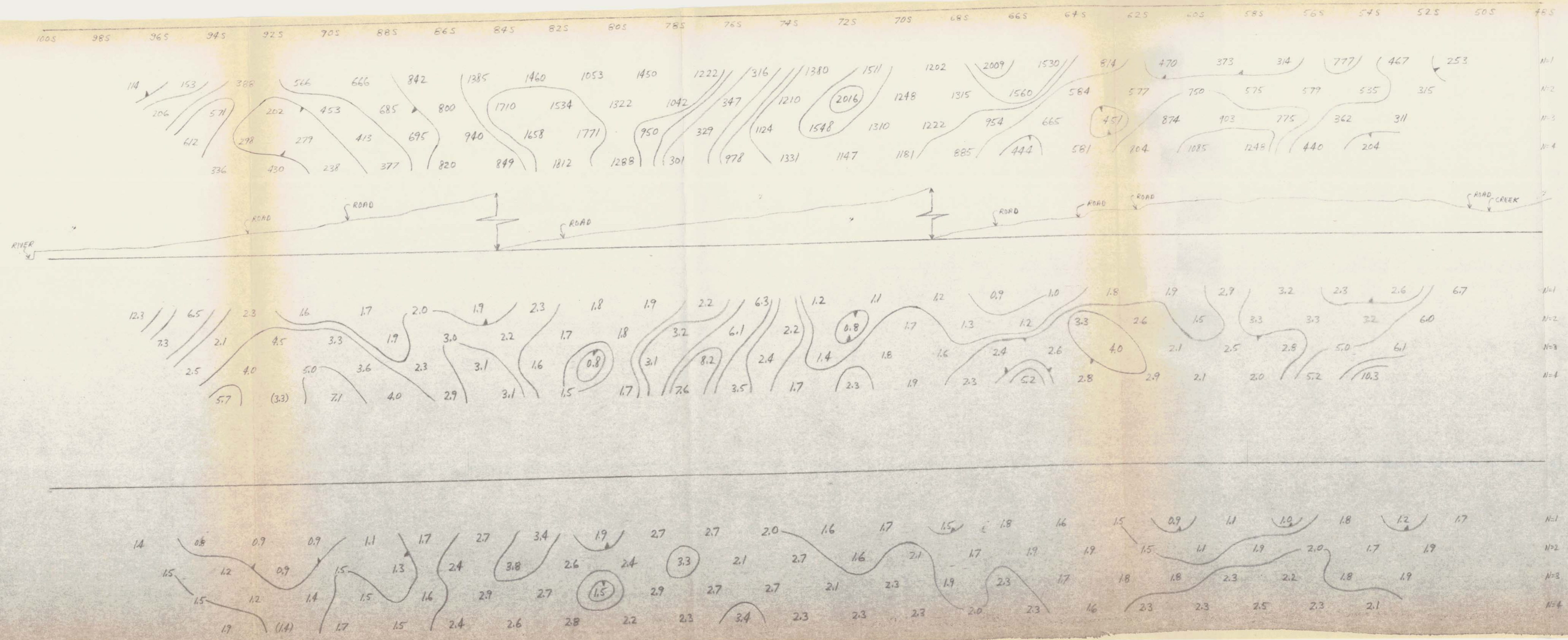
P(a) / 2π
 OHM FEET

M.F.

F.E.

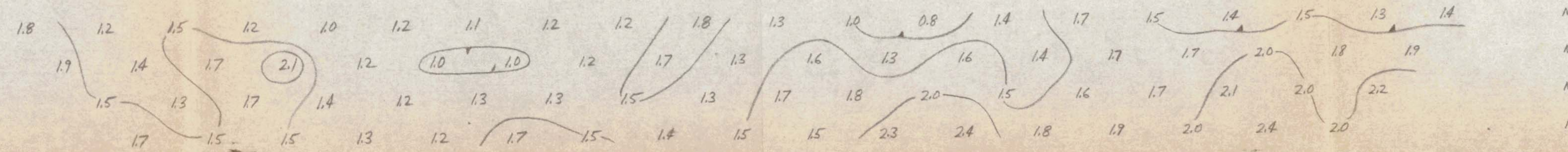
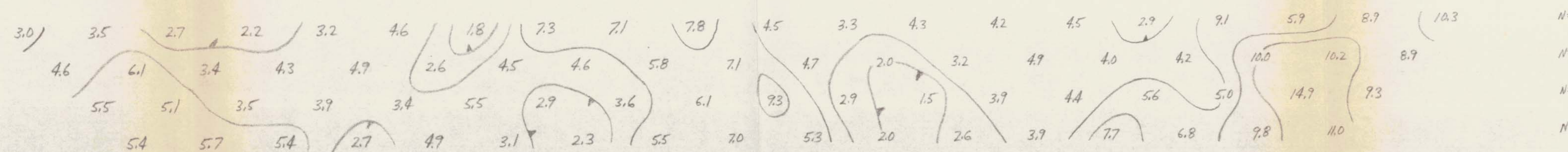
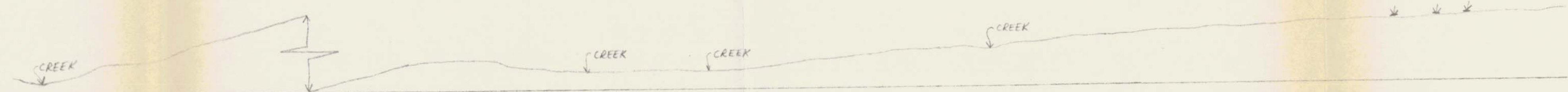
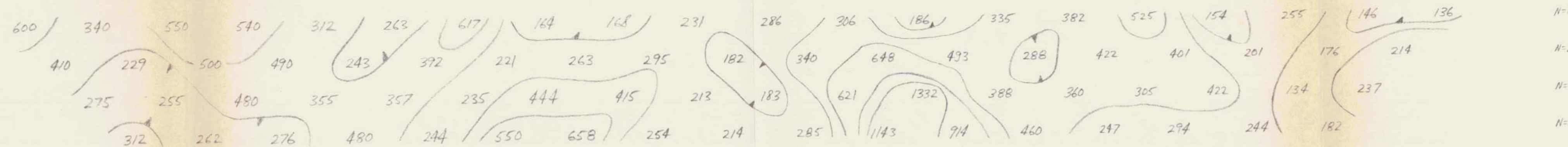
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 FIG. D

LINE 4E



LINE 20 E

925 905 885 865 845 825 805 785 765 745 725 705 685 665 645 625 605 585 565 545 525 505 485



$\frac{I(\omega)}{2\pi}$
OHM FEET

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RED GROUP
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P-660 FREQUENCY DOMAIN I.P.
DIPOLE - DIPOLE ARRAY
0.3 AND 5.0 HERTZ
OPERATORS: MORRISON + DEPAOLI

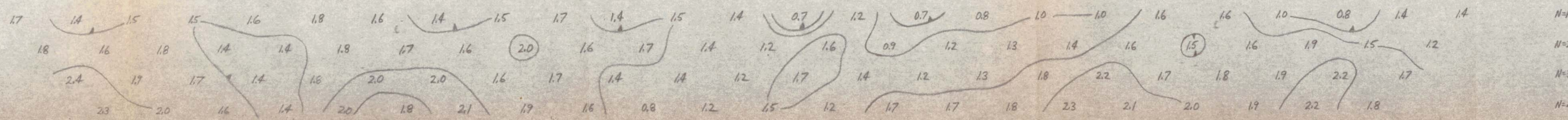
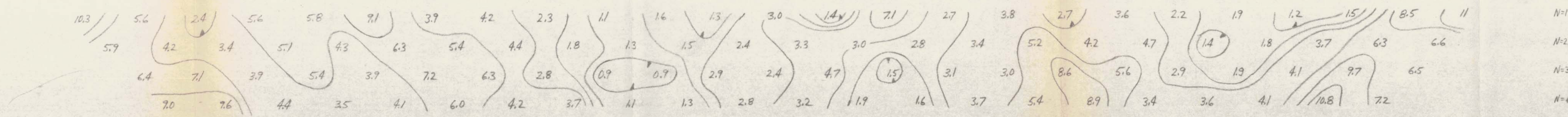
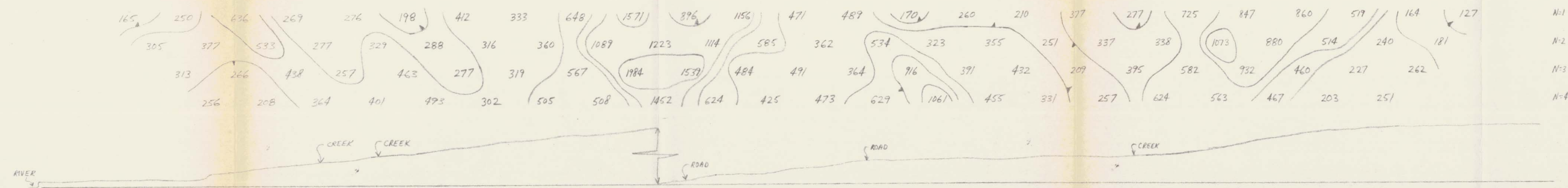
SCALE: 1" = 200'
DATE: MAY 24, 1975

LINE 20+00 E

5552
FIG. H

LINE 12 E

1025 1005 985 965 945 925 90 885 865 845 825 805 785 765 745 725 705 685 665 645 625 605 585 565 545 525 505 485



CANADIAN SUPERIOR EXPLORATION
RED GROUP
SMITHERS REGIONAL OFFICE

P-660 FREQUENCY DOMAIN I.P.
DIPOLE - DIPOLE ARRAY
0.3 AND 5.0 HERTZ
OPERATORS: MORRISON + DEPAOLI

SCALE: 1" = 200'
DATE: MAY 23, 24 JUNE 3, 1975

Pa/2π

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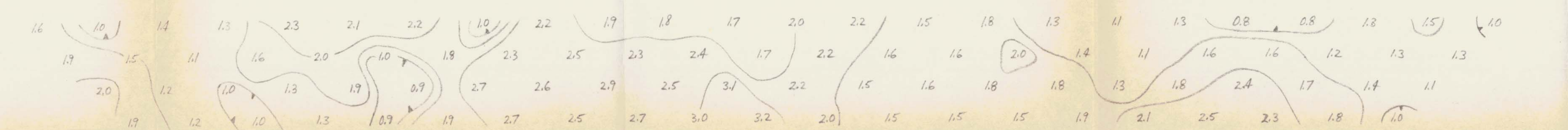
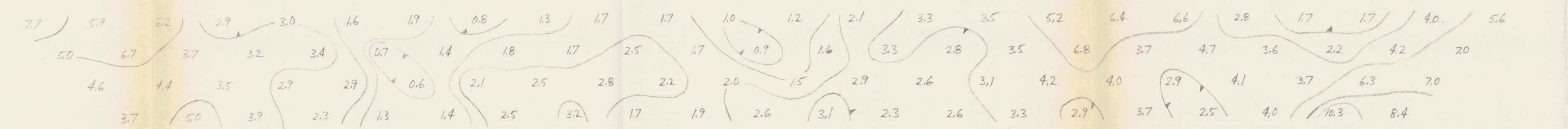
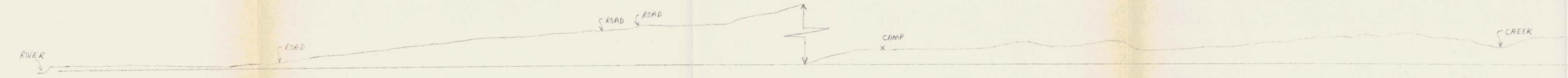
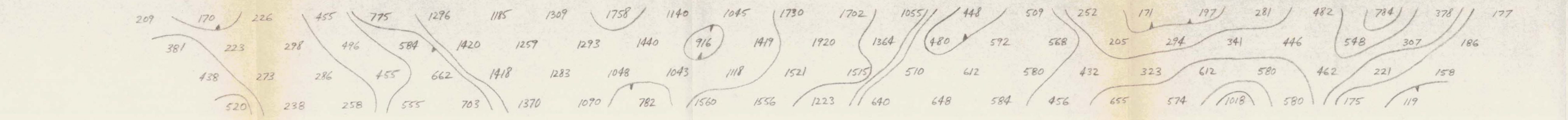
LINE 12+00 E

F.E.

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FIG. F

LINE 8 E

1005 985 965 945 925 905 885 865 845 825 805 785 765 745 725 705 685 665 645 625 605 585 565 545 525 505 485



CANADIAN SUPERIOR EXPLORATION
RED GROUP
SMITHERS REGIONAL OFFICE

$\frac{P(\omega)}{2\pi}$
OHM FEET

P-660 FREQUENCY DOMAIN I.P.
DIPOLE - DIPOLE ARRAY
0.3 AND 5.0 HERTZ
OPERATORS: MORRISON + DEPAOLI

SCALE: 1" = 200'
DATE: MAY 22, 30 JUNE 3, 1975

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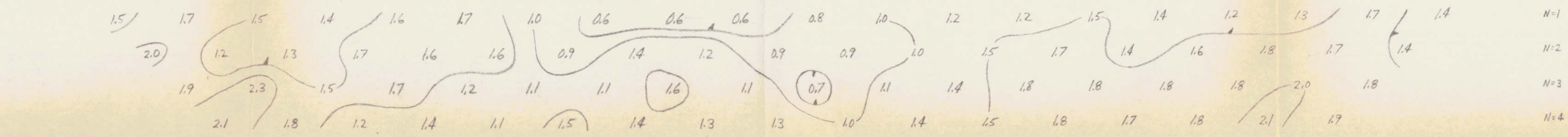
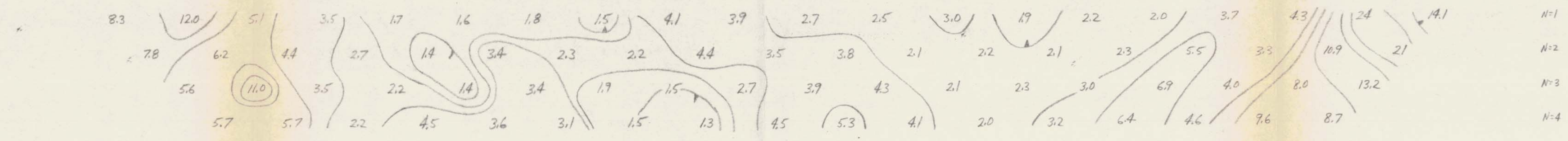
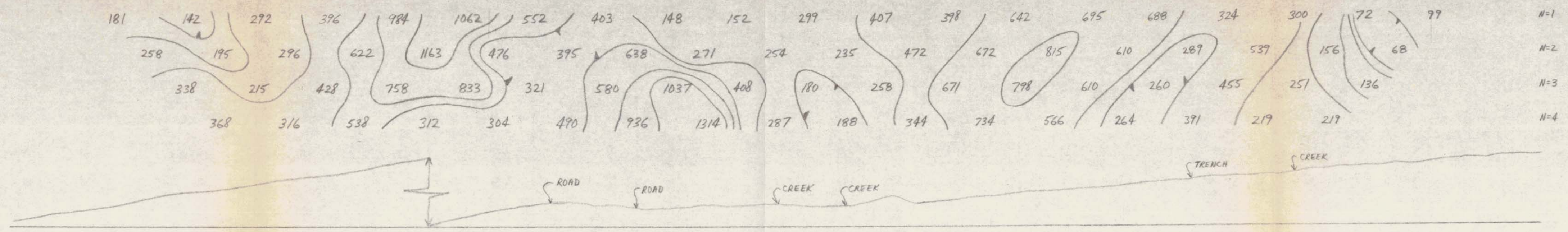
LINE 8+00E

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FIG. E

LINE 16 E

925 905 885 865 845 825 805 785 765 745 725 705 685 665 645 625 605 585 565 545 525 505 485



CANADIAN SUPERIOR EXPLORATION
RED GROUP
SMITHERS REGIONAL OFFICE

P-660 FREQUENCY DOMAIN I.P.
DIPOLE - DIPOLE ARRAY
0.3 AND 5.0 HERTZ
OPERATORS: MORRISON + DEPAOLI

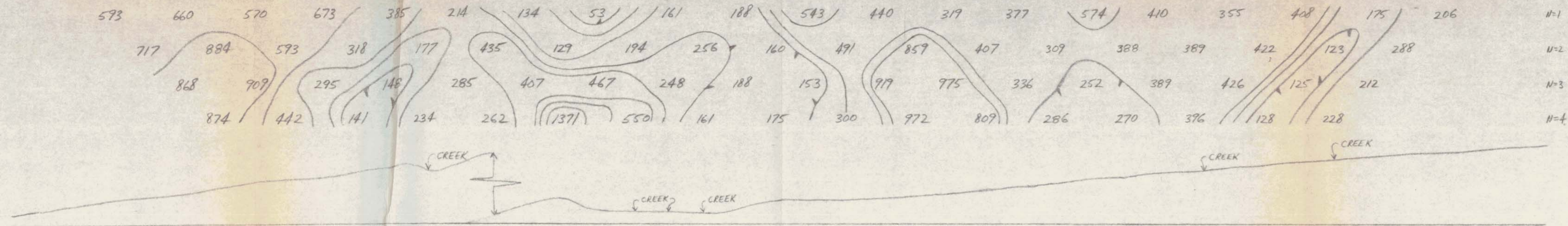
SCALE: 1" = 200'
DATE: MAY 24, 1975

LINE: 16+00 E

5552
FIG. G.

LINE 24 E

92 S 90 S 88 S 86 S 84 S 82 S 80 S 78 S 76 S 74 S 72 S 70 S 68 S 66 S 64 S 62 S 60 S 58 S 56 S 54 S 52 S 50 S 48 S

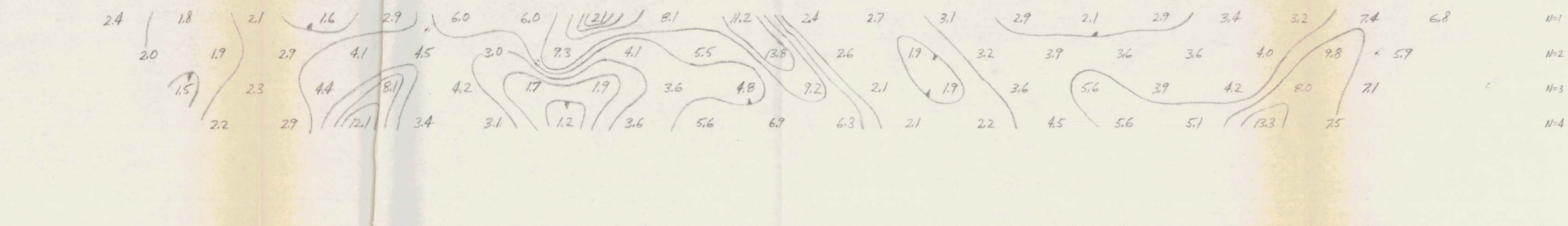


$\rho_{(a)}$
27
DNM FEET

CANADIAN SUPERIOR EXPLORATION
RED GROUP
SMITHERS REGIONAL OFFICE

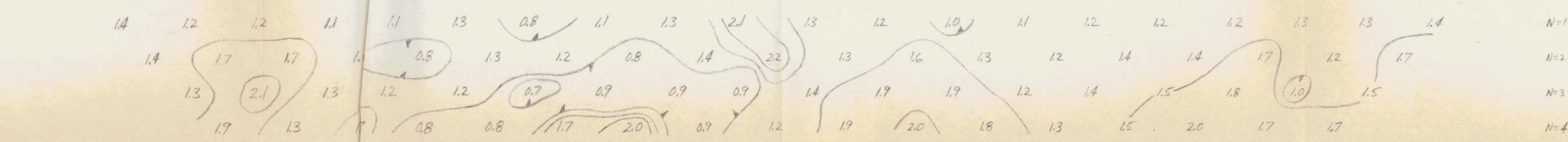
P-660 FREQUENCY DOMAIN I.P.
DIPOLE - DIPOLE ARRAY
0.3 AND 5.0 HERTZ
OPERATORS: MORRISON + DEPAOLI

SCALE: 1" = 200'
DATE: MAY 25, 28, 29 1975



M.F.

LINE 24+00 E

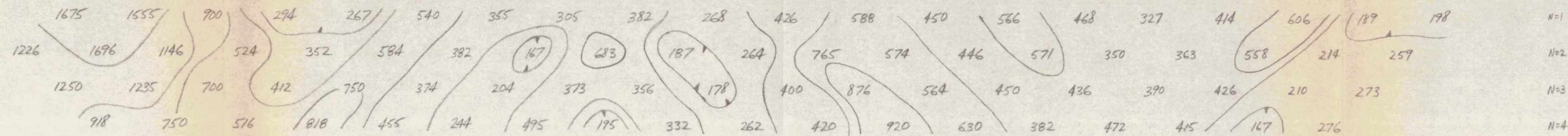


F.E.

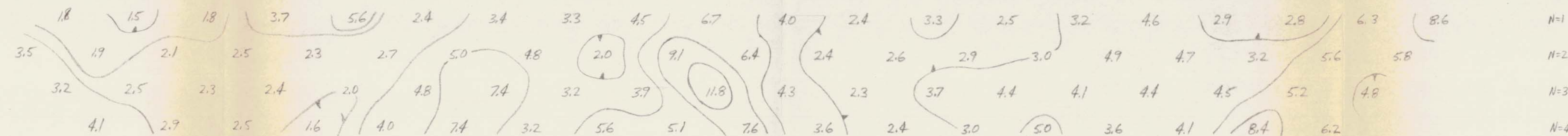
5552
FIG. I

LINE 28 E

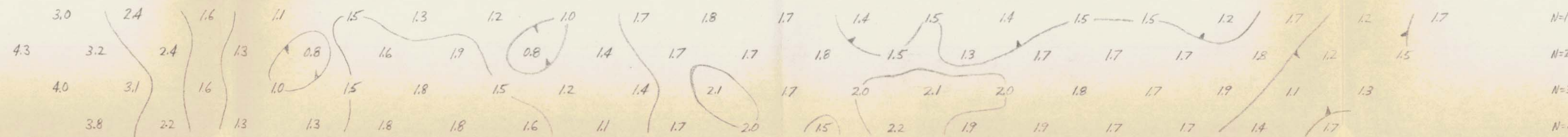
94 S 92 S 90 S 88 S 86 S 84 S 82 S 80 S 78 S 76 S 74 S 72 S 70 S 68 S 66 S 64 S 62 S 60 S 58 S 56 S 54 S 52 S 50 S 48 S



$\frac{P(\omega)}{2\pi}$
OHM FEET



M.F.



F.E.

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RED GROUP
SMITHERS REGIONAL OFFICE

P-660 FREQUENCY DOMAIN I.P.
DIPOLE - DIPOLE ARRAY
0.3 AND 5.0 HERTZ
OPERATORS: MORRISON + DEPAOLI

SCALE: 1" = 200'
DATE: MAY 25, 28 1975

LINE 28 + 00E

5552
FIG. J

LINE 32 E

945 925 905 885 865 845 825 805 785 765 745 725 705 685 665 645 625 605 585 565 545 52 505 485

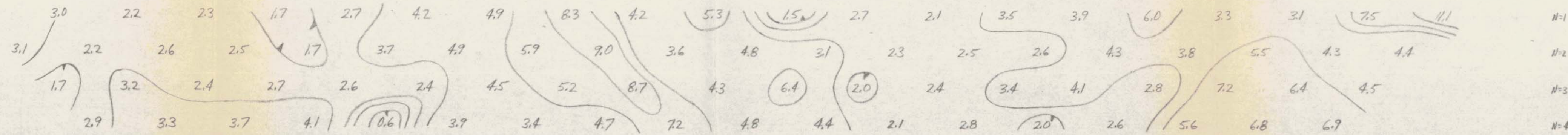


$\frac{P}{2\pi}$
OHM FEET

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RED GROUP
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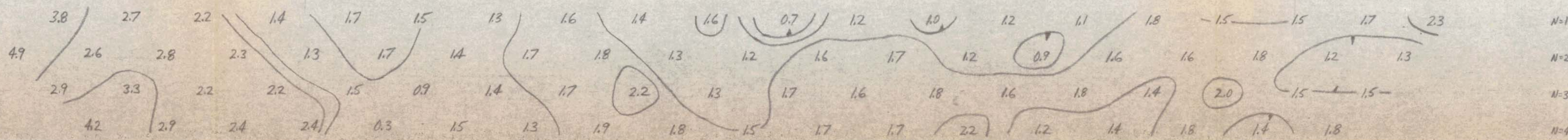
P-660 FREQUENCY DOMAIN I.P.
DIPOLE - DIPOLE ARRAY
0.3 AND 5.0 HERTZ
OPERATORS: MORRISON + DEPAOLI

SCALE: 1" = 200'
DATE: MAY 25, 26, 28 1975



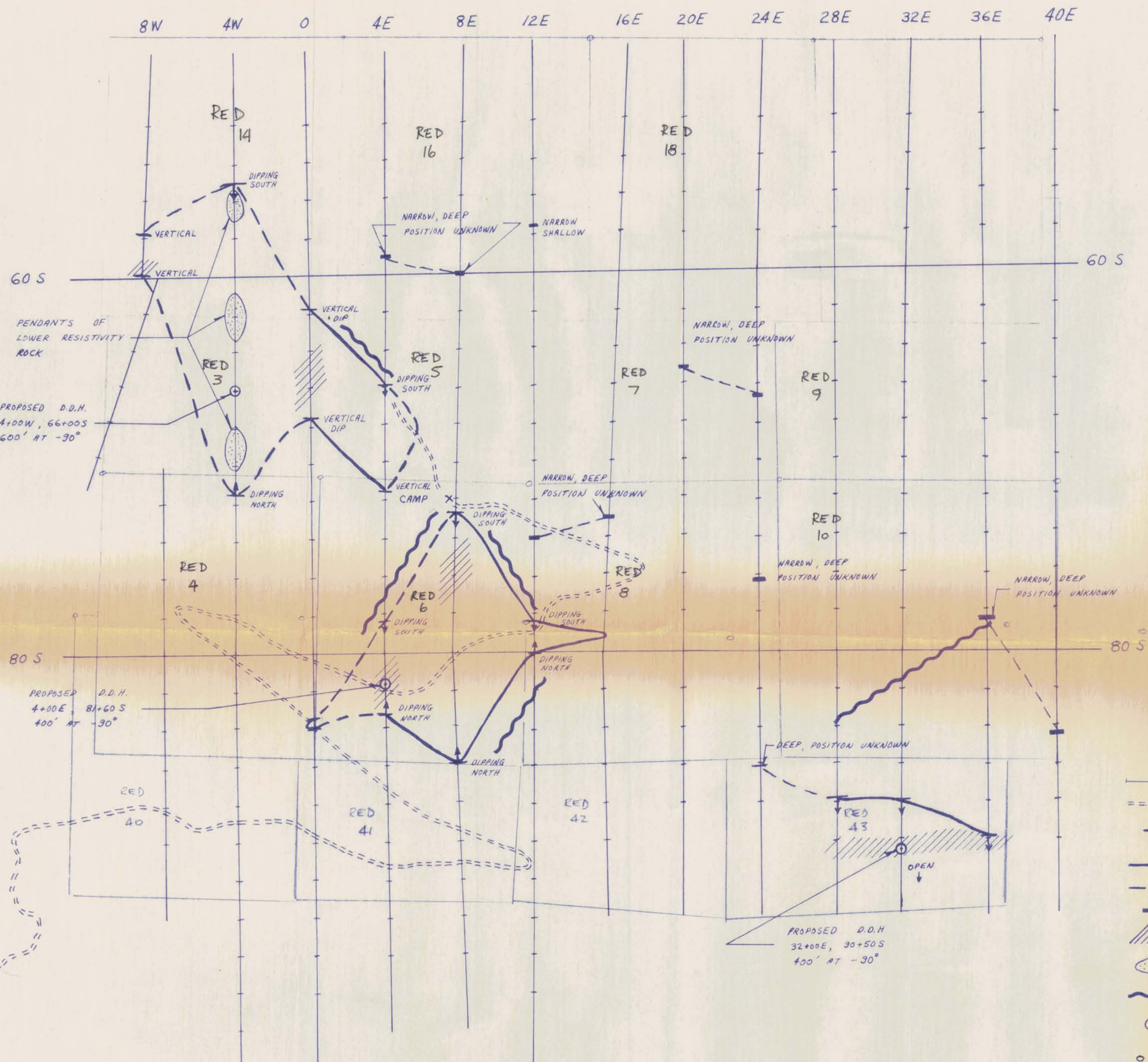
M.F.

LINE: 32 + 00 E



F.E.

5552
FIG. K



LEGEND

- CUT LINE
- == ROAD
- ⌞ DEDUCED LIMESTONE CONTACT AND DIP FROM PSEUDOSECTION ANALYSIS PROJECTED TO SURFACE
- INTERPRETED INTERLINE LIMESTONE CONTACT
- - - POSSIBLE INTERLINE LIMESTONE CONTACT
- APPARENT RESISTIVITIES INDICATIVE OF LIMESTONE
- /// COINCIDENT PFE VALUES > 3% PROJECTED TO SURFACE
- INTERPRETED PENDANTS OF LOWER RESISTIVITY ROCK
- ~ POSSIBLE FAULTS
- RECOMMENDED DRILL HOLES
- CLAIM POST

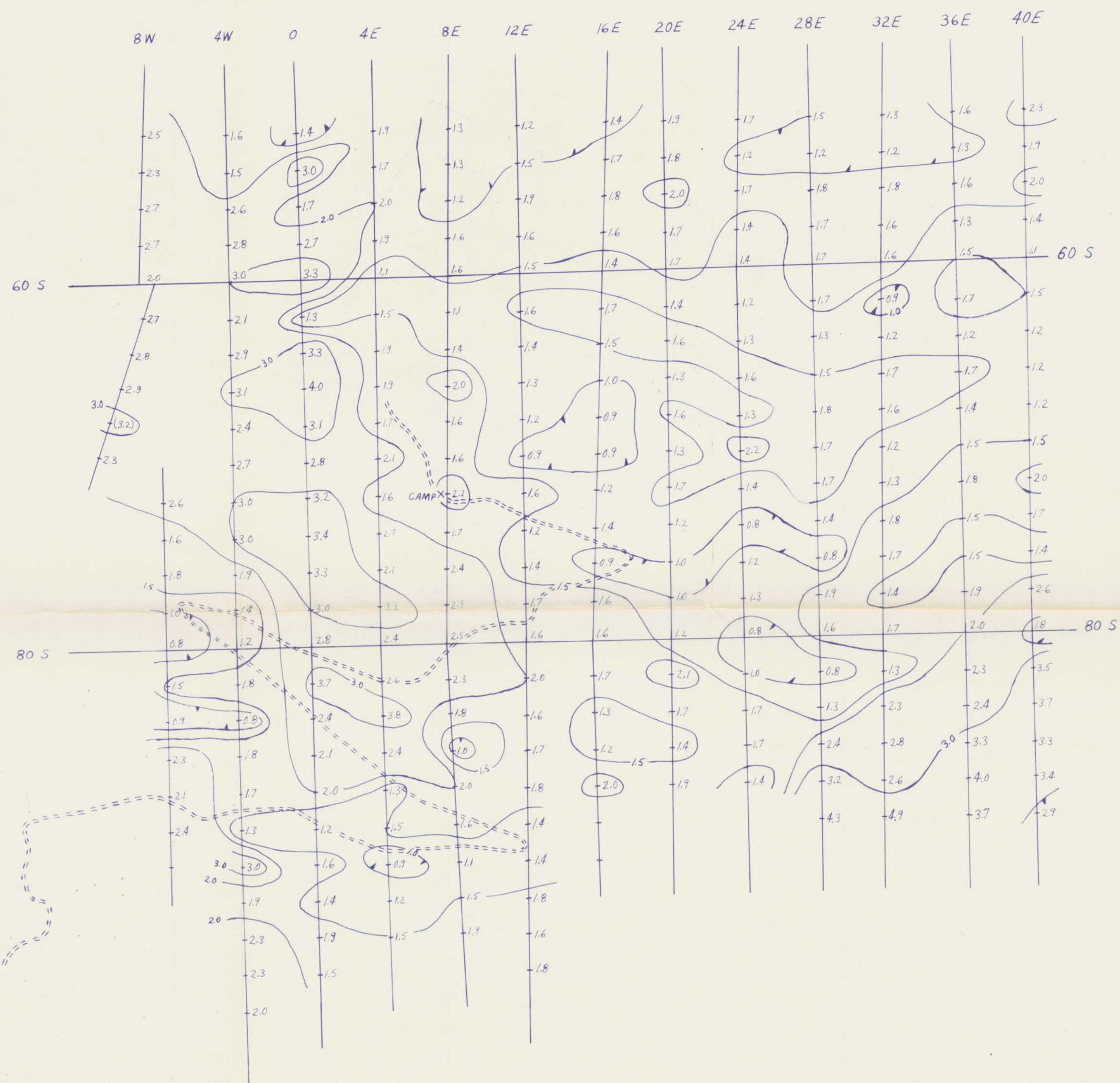
Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5552 MAP 4

5552
MAP 4

To Accompany geophysical report on the
Red Group of Claims, Squigula River Area,
Omineca M.D. by G. Dept., June 1975.

CANADIAN SUPERIOR EXPLORATION LIMITED SMITHERS REGIONAL OFFICE		
RED GROUP GEOPHYSICAL INTERPRETATION		
DRAWN BY: G.M.D.	DATE: JUNE 1975	SCALE: 1"=400'
FIGURE: 6	TO ACCOMPANY 1975 GEOPHYSICAL REPORT	

#5552



LEGEND

- CUT LINE
- ==== ROAD
- PERCENT FREQUENCY EFFECT
- CONTOUR INTERVAL 0.3, 0.5, 0.75, 1.0, 2.0, 3.0

P-660 FREQUENCY DOMAIN I.P.
 DIPOLE - DIPOLE ARRAY $\alpha=200'$, $N=2$
 0.3 AND 5.0 HERTZ
 OPERATORS: MORRISON AND DEPAOLI

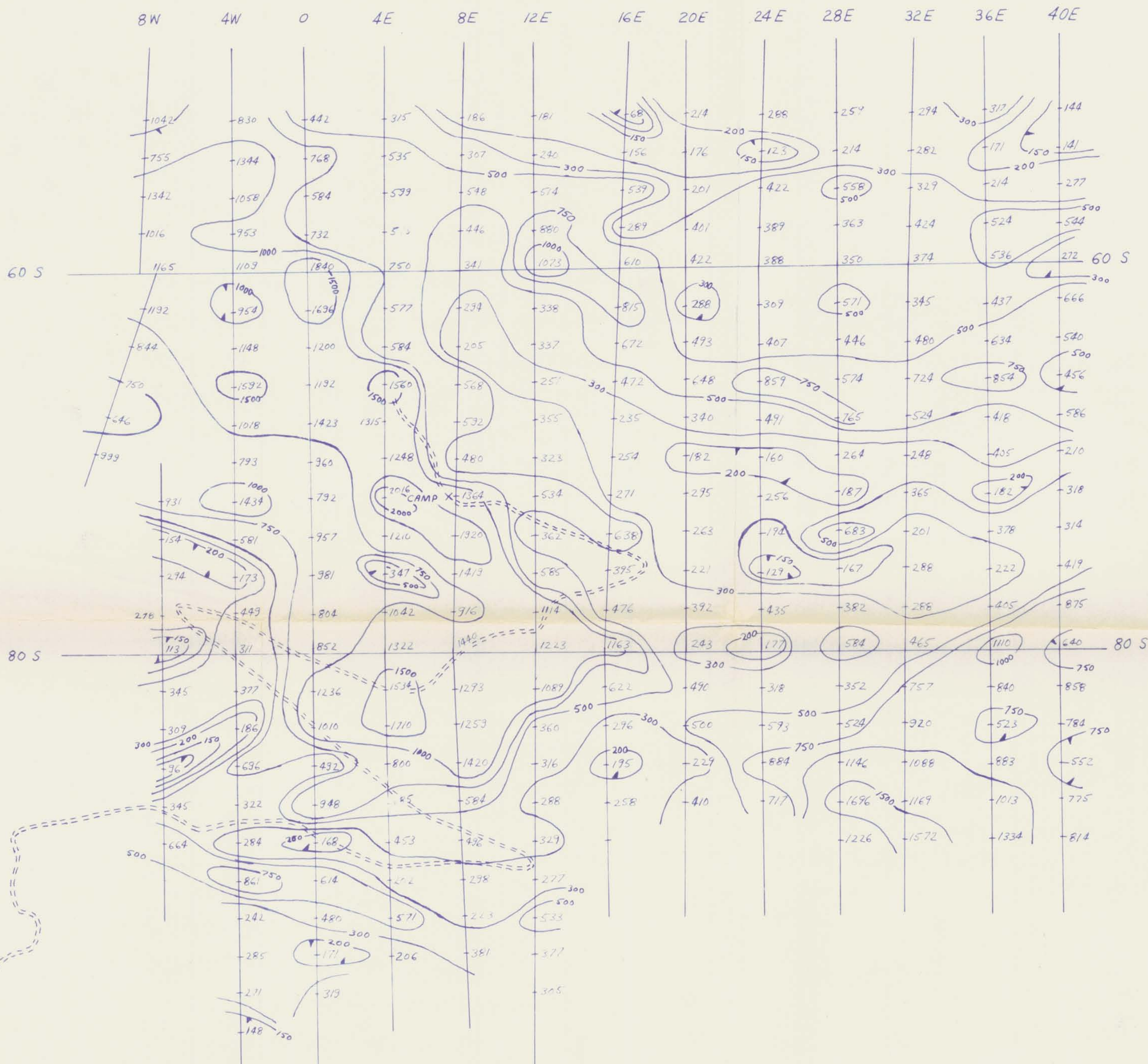
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 ASSESSMENT REPORT
 NO. 5552 MAP 3

5552 MAP 3

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RED GROUP
 CONTOURED PLAN PFE, $N=2$

DRAWN BY: G.M.D. DATE: JUNE 1975 SCALE: 1" = 400'
 FIGURE: 5 TO ACCOMPANY 1975 GEOPHYSICAL REPORT



LEGEND

- CUT LINE
- ==== ROAD
- APPARENT RESISTIVITY $\rho_{a/2\pi}$ OHM FEET
- CONTOUR INTERVAL 150, 200, 300, 500, 750, 1000, 1500

P-660 FREQUENCY DOMAIN I.R.
 DIPOLE - DIPOLE ARRAY $a=200'$, $N=2$
 0.3 AND 5.0 HERTZ
 OPERATORS: MORRISON AND DEPAOLI

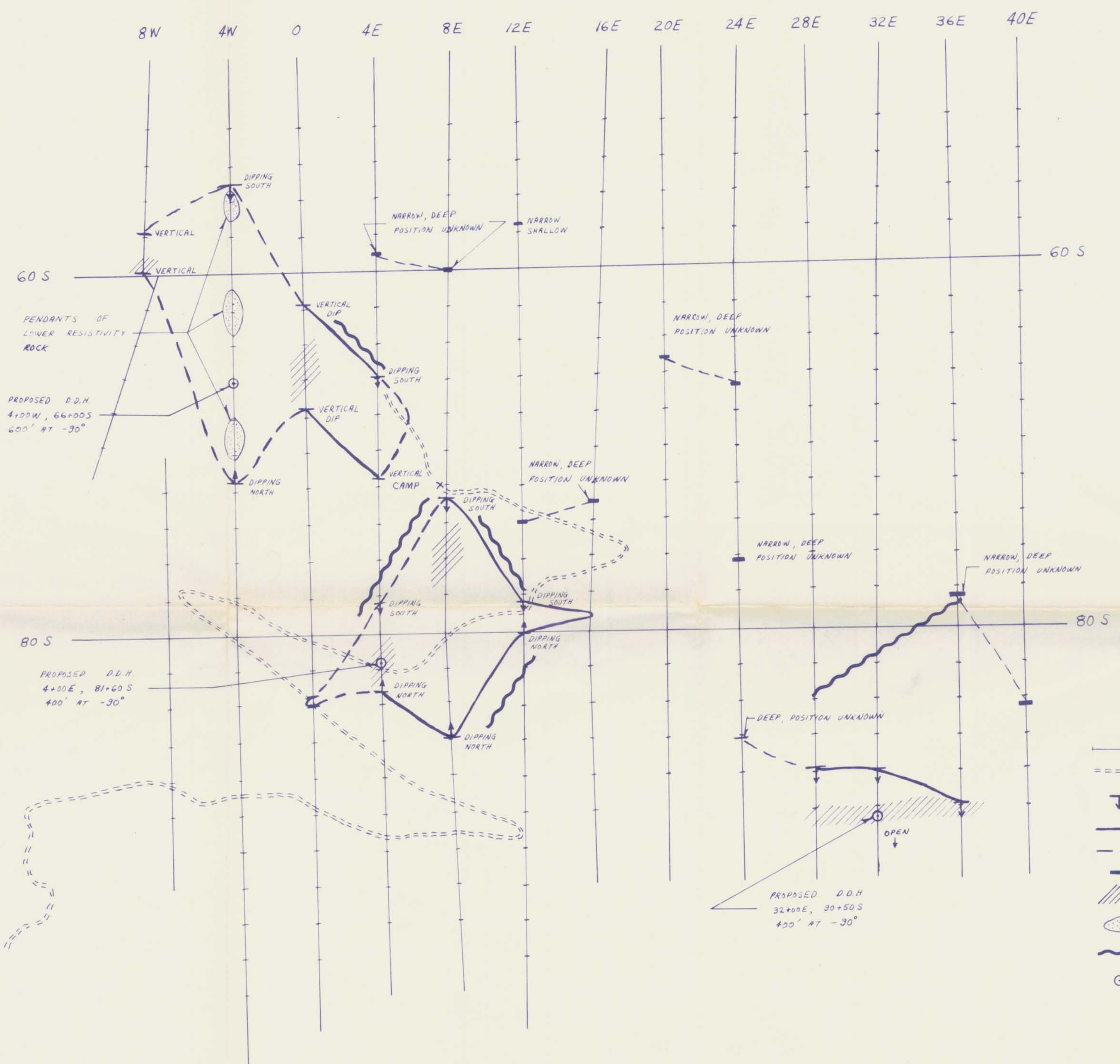
Department of
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 ASSESSMENT REPORT
 NO. 5552 MAP 2

5552 MAP 2

CANADIAN SUPERIOR EXPLORATION LIMITED
 SMITHERS REGIONAL OFFICE

**RED GROUP
 PLAN RESISTIVITY, N=2**

DRAWN BY: G.M.D. DATE: JUNE 1975 SCALE: 1" = 400'
 FIGURE: 4 TO ACCOMPANY 1375 GEOPHYSICAL REPORT



LEGEND

- CUT LINE
- ==== ROAD
- ⌞ DEDUCED LIMESTONE CONTACT AND DIP FROM PSEUDOSECTION ANALYSIS PROJECTED TO SURFACE
- INTERPRETED INTERLINE LIMESTONE CONTACT
- - - POSSIBLE INTERLINE LIMESTONE CONTACT
- APPARENT RESISTIVITIES INDICATIVE OF LIMESTONE
- ▨ COINCIDENT PFE VALUES > 3% PROJECTED TO SURFACE
- INTERPRETED PENDANTS OF LOWER RESISTIVITY ROCK
- ~ POSSIBLE FAULTS
- RECOMMENDED DRILL HOLES

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5552 MAP 4

5552
MAP 4

CANADIAN SUPERIOR EXPLORATION LIMITED
SMITHERS REGIONAL OFFICE

RED GROUP
GEOPHYSICAL INTERPRETATION

DRAWN BY: S.M.D. DATE: JUNE 1975 SCALE: 1"=400'
FIGURE: 6 TO ACCOMPANY 1975 GEOPHYSICAL REPORT