

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

82-#934-11020

11,020  
PART 7 OF 8

1982 GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL & DRILLING REPORT

on May 1-33, Bull 1-6, Climax 1-11, Post 1-10 & Macc Claims

Liard Mining Division, B.C., NTS: 104-0-16 E & W  
Latitude 59°56'N; Longitude 130°15'W

Date Submitted: January, 1983

**VOLUME V-B** GROUND EM; by White Geophysical Consulting  
"Pulse Electromagnetometer Survey"

**B.C. Midway Property 1982 Assessment Report**

THIS REPORT CONSISTS OF THE FOLLOWING VOLUMES:

- VOLUME I - Text (also includes Tables, Figures and Appendices)
- VOLUME II - Plates (plates 1 to 22 inclusive)
- VOLUME III-A - Diamond Drilling  
- Logging Format  
- Diamond Drill Core Logs with Assay & Analysis Record Sheets  
for ~~DDH MW 81-1 to MW 81-6~~  
↳ DDH MW 82- 7 to MW 82-15
- VOLUME III-B - Diamond Drilling (continued)  
- Diamond Drill Core Logs with Assay & Analysis Record Sheets  
for DDH MW 82-16 to MW 82-20  
DDH B 82-1  
DDH EB 82-1 to EB 82-4
- VOLUME IV - Airborne Geophysics; by Dighem Limited, Toronto  
- Rpt. No. 158/1: Dighem I Survey on May Claim Block  
- Rpt. No. 168/2 Dighem II Survey on Post Claim Block
- VOLUME V-A - Ground EM; by Glen E. White Geophysical Consulting & Services Ltd.  
- Geophysical Report on a Horizontal Loop Pulse Electromagnetometer Survey
- VOLUME V-B - Ground EM; by Glen E. White Geophysical Consulting & Services Ltd.  
- Geophysical Report on a Pulse Electromagnetometer Survey
- VOLUME VI - Gravity; by Ager, Berretta & Ellis Inc.  
- Geophysical Report Gravity Survey

1 9 8 2

GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL & DRILLING REPORT

ON THE

WAY 1-33, BULL 1-6, CLIMAX 1-11, POST 1-10 & MACC

MINERAL CLAIMS

LIARD MINING DIVISION, BRITISH COLUMBIA  
N.T.S. 104-O-16 E and W  
Latitude 59°56'N; Longitude 130°15'W

OWNER: REGIONAL RESOURCES LTD.

under option to

AMAX of Canada Limited

OPERATOR: REGIONAL RESOURCES LTD.

CONSULTANT: CORDILLERAN ENGINEERING

By

Cordilleran Engineering  
1418-355 Burrard Street  
Vancouver, B.C. V6C 2G8

DATE SUBMITTED: January, 1983

FIELD PERIOD: June 1 - Oct. 6, 1982



GEOPHYSICAL REPORT  
On A  
PULSE ELECTROMAGNETOMETER SURVEY  
On Behalf Of  
CORDILLERAN ENGINEERING LTD.  
Midway Property

Way, Bull, Climax & Post Mineral Claims  
Rancheria Area, Liard M.D., B. C.  
N.T.S. 104 O, Lat. 60°00'N, Long. 130°15'W

AUTHOR: Glen E. White, B.Sc., P. Eng.  
Geophysicist

DATE OF WORK: July 5 to August 6, 1982  
DATE OF REPORT: October 12, 1982

*Glen E. White*

GEOPHYSICAL CONSULTING & SERVICES LTD.

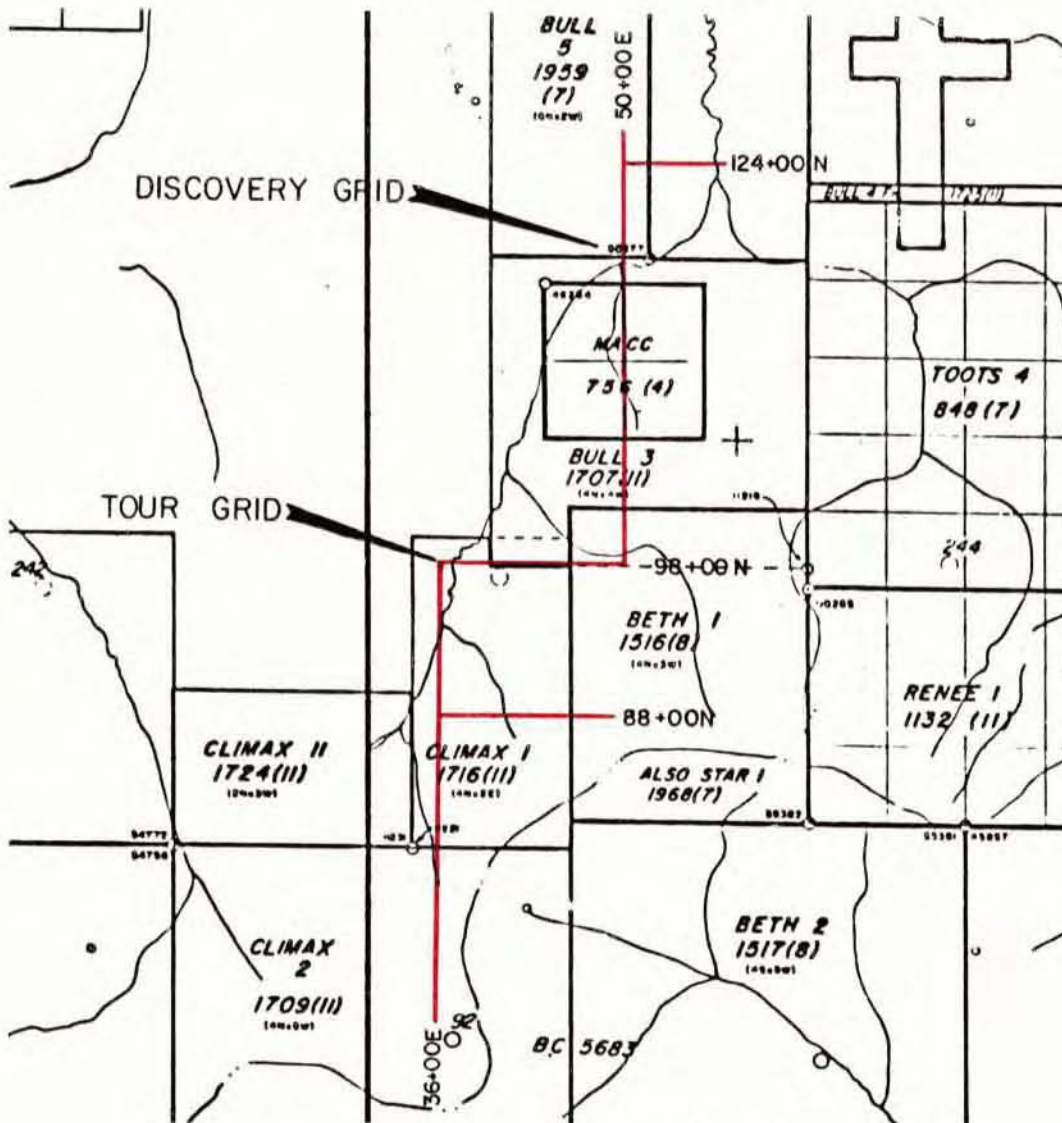


## C O N T E N T S

	<u>PAGE</u>
Introduction.....	1
Property.....	1
Location and Access.....	2
General Geology.....	2 - 3
Pulse Electromagnetometer Survey.....	4 - 5
Discussion of Results.....	6 - 11
Conclusion and Recommendations.....	12
Instrument Specifications.....	13 - 15
Statement of Qualifications.....	16
Cost Breakdown.....	17 - 18

### ILLUSTRATIONS

- Figure 1 - Location and Claims Map
- Figure 2 - Conductor Map, Discovery Grid
- Figures 3 - 22, HPEM Profiles - Discovery Grid
- Figure 23 - Conductor Map, Tour Grid
- Figures 24 - 26, HPEM Profiles - Tour Grid



**CORDILLERAN ENGINEERING LTD.**

— DISCOVERY AND TOUR CREEK GRIDS —

**LOCATION AND CLAIMS MAP**

*Glen E. White*  
geographical consulting  
of  
Surrey, B.C.

## INTRODUCTION

This report describes a program of time domain horizontal loop pulse electromagnetometer surveying conducted over two areas on the Midway property of Cordilleran Engineering Ltd. The two areas are known as the Discovery Grid and the Tour Grid. Some 30 km of work was completed over the former and 4 km over the latter. The work was completed during the period July 5 to August 6, 1982 by Glen E. White Geophysical Consulting & Services Ltd.

A report dated October 28, 1981 by the author on the Midway property outlines the 1981 test program on lines 11400N to 11800N. The present program covers an area from lines 9800N to 12400N.

## PROPERTY

<u>CLAIM</u>	<u>RECORD NO.</u>	<u>EXPIRY DATE</u>
Way 1-5	1684-1688	Oct. 20/81
Way 6-23	1726-1743	Nov. 26/81
Bull 1-3	1705-1707	Nov. 12/81
Bull 4Fr.	1725	Nov. 26/81
Bull 5	1959	July 21/82
Climax 1	1716	Nov. 26/81
Climax 2-3	1709,1710	Nov. 12/81
Climax 4-11	1717-1724	Nov. 26/81
Post 1	1708	Nov. 12/81

### LOCATION AND ACCESS

The Mineral claims are located 90 km west of Watson Lake Yukon, Lat.  $60^{\circ}00'N$ , Long.  $130^{\circ}15'W$ , N.T.S. 104 O, Liard M.D., B. C.

Access to the property is via unimproved roads south across the Rancheria River near Mile 706 on the Alaska Highway.

### GENERAL GEOLOGY

The property is underlain by Mississippian argillites, sandstones and coarse clastics of the Lower Sylvester Formation, which lie stratigraphically between McDame Formation carbonates and Upper Sylvester Formation volcanic rocks. Siliceous, pyritic and baritic exhalites, thought to be distal equivalents to Pb-Zn-Ag-Ba mineralization occur within the argillites. One stratiform galena-sphalerite-pyrite showing has been identified on the Bull 3 claim (B. C.).

The Lower Sylvester Formation rocks strike northwest and occupy the central part of a broad northwesterly trending syncline. Stratigraphy dips at  $10^{\circ}$  to  $30^{\circ}$  northeast and southwest toward the center of the structure. Numerous high angle faults cut stratigraphy, with vertical displacements up to several hundred metres.

The showing area grid is underlain by interbedded carbonaceous, siliceous argillite and massive to well laminated sandstone which strike generally north-south, and dip  $20^{\circ}$  to  $30^{\circ}$  to the east. Numerous steep dipping faults cut the stratigraphy.

Three stratiform pyrite-sphalerite-galena horizons are present in the grid area, associated with the highly carbonaceous argillite. The Discovery showing is a 1 to 2 metre thick horizon exposed in a trench over a strike length of 115 metres, and is composed of 5 - 10% sphalerite and galena, plus 5% to 70% fine to coarsely crystalline pyrite in a siliceous matrix. A second zone lies 30 metres stratigraphically above this trench, and a third along the upper contact of the McDame limestone. Overburden depth varies from 7 to 13 metres.



## VECTOR PULSE ELECTROMAGNETOMETER SURVEY

The Crone pulse electromagnetometer system is a time domain E.M. system which can be used in the standard horizontal loop mode, fixed source mode or in a downhole mode.

The primary field for the standard horizontal loop method is produced by a portable transmitter loop of 6, 10, or 50 metres diameter. A depth of search of approximately 75% of separation is obtainable due to the high sensitivity of the receiver system. As measurements of the time derivative of the secondary field occur during primary field off time the method is relatively free from geometrical restrictions. Interpretation is accomplished with the aid of Slingram horizontal loop curves.

The primary field for the 2000 watt fixed source system is provided by a 500 by 1000 metre transmitter loop. A 150 by 150 metre loop is utilized with the 500 watt system. The time derivative of the secondary field resulting from the presence of a conductor is sampled at eight windows on the decay curve, during primary field off time. These eight channels of secondary field information are equivalent to a wide spectrum of frequencies from approximately 2 KHz to 16 Hz thus allowing conductor character and strength determination. The vertical and horizontal components are obtained at each station on the traverse, using the convention of vertical component positive upwards and horizontal component positive away from the transmitter loop. In areas of high surficial conductivity the primary field on time of 10.8 ms, and the receiver delay times may be doubled in order to obtain late time information. Time synchronization between transmitter and receiver is by radio or cable link.

The apparent primary field information is recorded at each occupied station. Normalization of the data with respect to instrument gain produces a constant gain plot. In this format a vertical plate-like conductor anomaly would be symmetric. Normalization with respect to the apparent primary field at each station provides a constant primary field plot that is useful in recognizing conductors present in the far primary field and in correlating anomaly amplitudes from line to line. The anomalies lose symmetry in this format but the condition of anomaly amplitude dependence on distance from the loop is relaxed. In the case of stacked profiles on plan maps it is practical to use the advantages of both of these methods and plot a constant gain profile normalized to the apparent primary field at a station near the conductor axis. This facilitates the correlation of conductors from line to line at varying distance in coverage from several transmitter loops.

The vector focus method of data display is useful in some line source conductor conditions. A resultant vector can be obtained by the vector addition of the vertical and horizontal components of the primary field. A perpendicular to this resultant indicates the apparent eddy current position.

## DISCUSSION OF RESULTS

### Discovery Grid

The 1982 survey work was completed with the pulse electromagnetometer system deployed in the horizontal loop mode with a separation of 75 m and a read interval of 25 m. Figure 2 is a composite map of all the lines showing the response from all eight channels. Thus the conductivity of each conductor is pictorially apparent.

Line 12400N shows a conductor which is dipping some  $30^{\circ}$  to the east and gives a response of 15 mho at a depth of 40 m. This conductor trends southward into the Discovery zone and may be the northern extension of either conductor A or B. The Discovery area shows a high background response indicating a broad area of conductive materials such as a thick clay overburden or flat lying graphite-bearing lithologies. The latter is most likely the case. Curve matching for conductor A gives a conductivity thickness product of 12 mho, an approximate dip of  $45^{\circ}$  east and maximum response at 30 m depth. Several shallow, narrow conductors are indicated to the east of conductor B, between it and a major conductor designated F. Conductor F shows a variable dip of  $30^{\circ}$  -  $45^{\circ}$  east and a conductivity of 7 - 13 mho at a depth of 25 - 30 m. This conductor would appear to be some 50 m further east than the present drilling. Its short strike length and intermediate conductivity response makes it a good drill target.



Southward from the Discovery area, the background conductivities show several broad variations. There is a series of conductors west of 5000E; between 5000E and 5500E is an area of low background response and to the east of 5500E an area of high background. A possible interpretation is that the low background relates to more limestone rocks and the high background to flat lying graphite-bearing units.

Two excellent conductors were detected. These are designated D and C. The northward projection of D from line 11400N to 11600N is uncertain. At line 11400N, D gives a dip of  $30^{\circ}$  east, 20 mho and 20 m depth response. A short 4 channel conductor occurs between C and D. Conductor C which appears to be the southward projection of A, shows a large amplitude response with an apparent thickening southward where it changes to a flatter dip as at line 10600N with a depth of 50 m. There is also the possibility of a NW-SE fault separating conductors AB and CD.

In the southern portion of the survey grid lines 10299N to 9800N, Conductor C appears to become shallower and splays into 3 conductors. The center one, on line 9800N, gives a conductivity thickness of 10 mho and a depth of 30 m. Conductor E is less reliable but appears to dip  $30^{\circ}$  east at a depth of 50 m. It occurs in an area of low background conductivity.

The eastern edge of the survey grid shows a strong conductor response on lines 11200N and 11000N. Line 11200N gives a response of 17 mho and a depth of 60 m. On line 11000N, the response is 9 mho at 30 m depth.

Two additional separations were conducted on line 11800N and another with the transmitter-receiver coils reversed. This data is shown on Figures 20-22. Figure 20 shows that there is a slight asymmetry effect with the time domain method in that the receiver coil is always vertical and the transmitter coil laid along the surface plane. Figures 21 and 22 show a decreasing response with decreasing separation and a westward up dip migration of the response. These tests support the depth estimate on line 11700N of 30 m.

#### Tour Grid

Three test lines were undertaken on an area defined as the Tour Grid (see Figures 23-26). Figure 23 shows the responses in plan form. This grid contains several very good conductors. A wide conductor of approximately 19 mho occurs at 3500E on line 9000N at a depth of 30 m. A strong shallow conductor of 21 mho is situated at 3725E on line 9000N. At 4000N is a very good conductor of some 34 mho which appears to be of short strike length.

#### Downhole Test Work

From July 24-31/82, various geophysical tests were conducted on boreholes 3, 7 and 9. The program was a limited one to determine if any method could assist in evaluating the mineralization in the holes. Figure 27 shows the position of the diamond drill holes.

Figure 26 shows the response from a 6 m loop west of the hole. A 3 channel conductor response is indicated at 70 m. The positive response indicates good conductivity to the east of the hole. This is supported by the large loop, Figure 29, which is to the south of the hole. It shows a very poor conductor at 25 m and a weak channel 6 at 70 m.

Hole 7 was logged in much more detail and shows some very complex results. Figures 30 and 31 show the results from the in loop with a 10 ms and a 20 ms time base. A large positive occurs at 105 m which suggests a conductor off loop; a slight in loop response occurs at 165 m and a perforation at 190 m. Loop E shows a lower edge perforation at 75 m whereas at 100 m an under the loop conductor is indicated. A second strong, excellent under the loop response off hole is shown at 165 m. Figure 33 and 34 also suggest that the conductor at 70 m is to the west of the hole. Loop B, Figure 35, indicates the conductor at 75 m is to the north of the hole. There is a slight positive response at 110 m suggesting this conductor is to the south of the hole. The response at 165 m is also positive. A weak perforation occurs at 190 m. Figure 36 shows sharp secondary field changes at 75 m and 105 m. A slight positive response occurs at 165 m and a perforation at 190 m. The remaining loop to the south, Figure 37, gives a positive indication at 75 m, thus putting the bulk of this conductor to the north of the hole. The negative response at 110 m combined with the response from the west loop places this conductor to the WSW. Loop D appears to be down dip and gives minimum coupling as the response is weaker than the other loops. Both

the south and east loops give a multiple perforation at 190 m with strongest response on the east loop suggesting the conductor continues eastward. Figure 38 mapped with the in loop, shows a significant response at 190 m. Channels 1 and 2 indicate a near loop conductor whereas channels 3-6 show an excellent conductor far from the loop which suggests the bulk of the conductor is towards hole 7.

A brief program of electrical property tests was also run on drill holes 7 and 3. A variable "a" spacing three electrode tool designed to operate in conjunction with the Crone downhole gear was utilized in the logging of these holes.

A simple gradient and surface referenced self potential log (Figure 39) as well as simple point to point resistance check was initially run on ddh 7. This survey indicated that strong and variable self potential effects were present. The point to point resistance check results (Figure 40) are, of course, affected by these effects. Subsequently, pole dipole (Figure 41) and pole pole (Figure 42) logs of the hole were obtained. The logs were run utilizing a commutating constant current source with the "infinity" electrode in two locations. The electrode was placed in ddh 10 approximately 200 metres cross strike from ddh 7 as well as placed at the 175 m depth at a caved zone near a mineralized section in ddh 3. Reversing constant currents of 200 ma and 500 ma were output respectively. The controlled geometry of the pole-dipole log provided the more definitive results of the two surveys. For the most part, the apparent

resistivities from the two "infinity" locations are similar suggesting that little difference in current path quality exists between these two positions. Apparent resistivity lows are correlated with the down hole PEM conductors but these exist against a generally very low apparent resistivity background. More resistant zones were detected centred on depths of 90 and 175 metres. An attempt to obtain induced polarization data utilizing surface excitation with the down hole dipole was thwarted by high SP effects exacerbated by low voltage signal levels due to the low resistivity environment.

Pole-dipole and pole-pole logs of ddh 3 provided similar results to that of ddh 7. Generally low apparent resistivities were present with a local higher apparent resistivity zone at approximately 30 metres depth.


CONCLUSION AND RECOMMENDATIONS

The 1982 time domain pulse electromagnetometer surveying has greatly expanded the strike length of the conductors indicated by the 1981 test program. A conductor ( $A_1$ ) was outlined on line 12400N in an area of low background which should be further investigated. Conductors E and F are also in an area of low background while conductor trends C, D,  $D_1$  and G are in a high background response. This pattern of conductors should be correlated with any available geology and or geochemistry and be further investigated.

The Tour Grid detected several very strong conductors which also warrant further examination.

The down hole PEM logging contained some good off hole responses which should be correlated with known drilling results. The PEM data suggests directions to mineralization. For instance, loop E suggests a good conductor west of the hole at a depth of 165 m. Systematic logging of the holes and correlation with the geological cross sections would appear to be of assistance in planning future deep diamond drill holes.

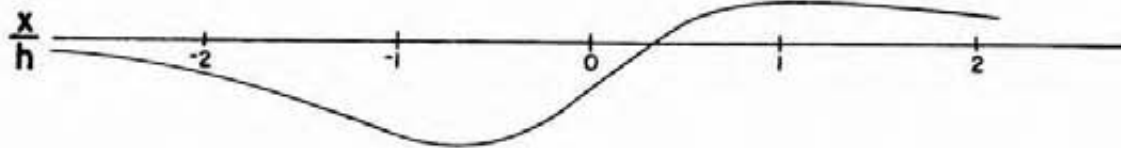
Respectfully submitted,



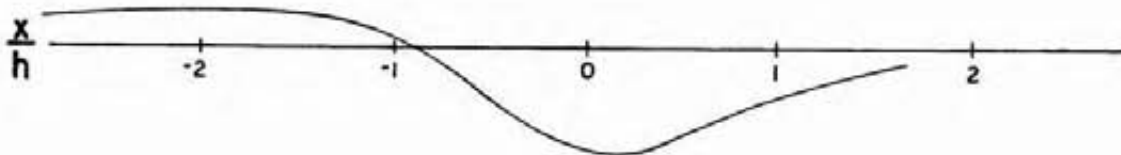
Glen E. White, B.Sc., P. Eng.  
Consulting Geophysicist



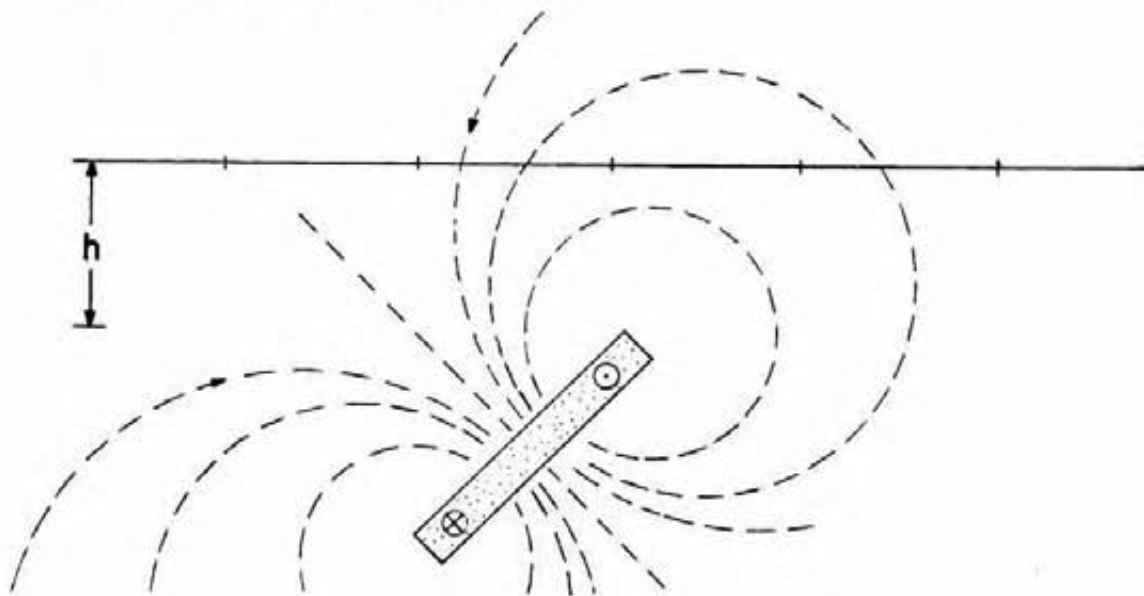
VERTICAL COMPONENT



HORIZONTAL COMPONENT

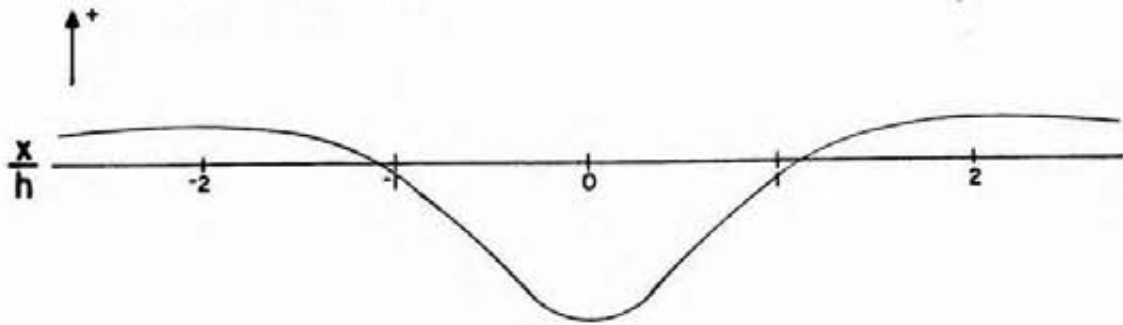


VPEM ANOMALY SHAPE

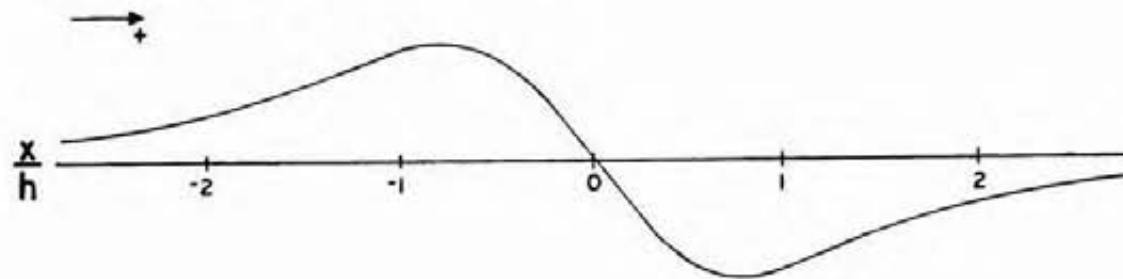


INCLINED TABULAR BODY

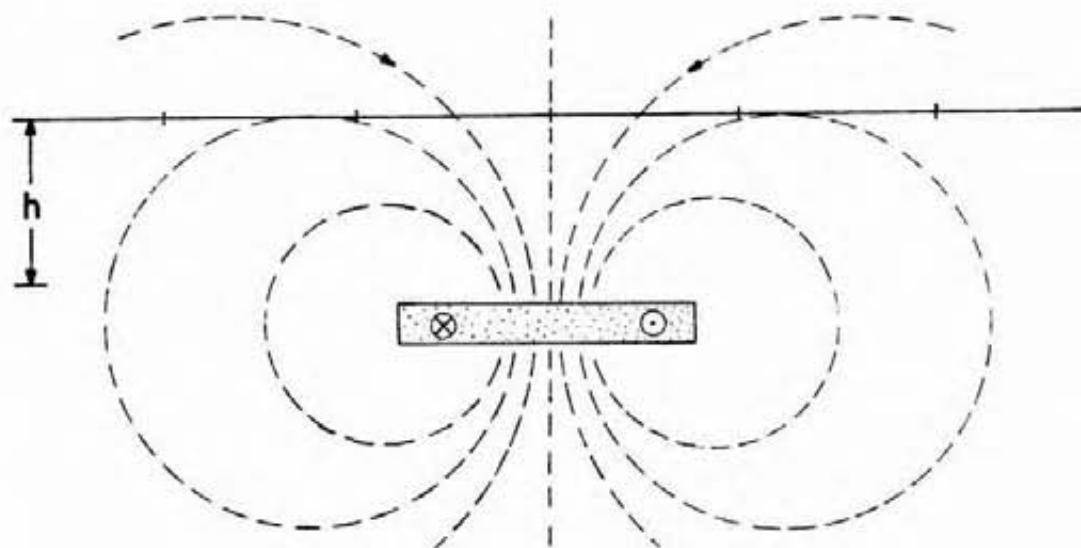
### VERTICAL COMPONENT



### HORIZONTAL COMPONENT



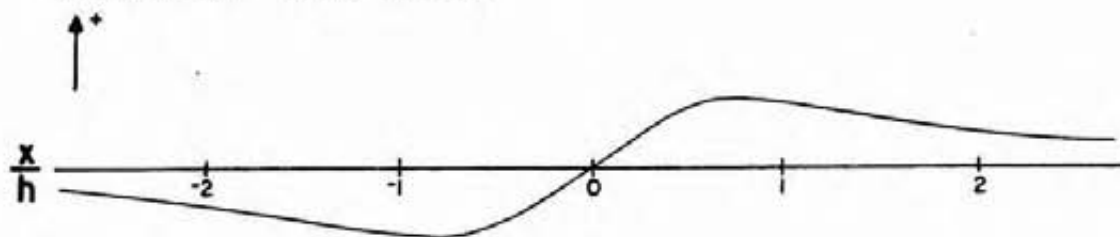
### VPEM ANOMALY SHAPE



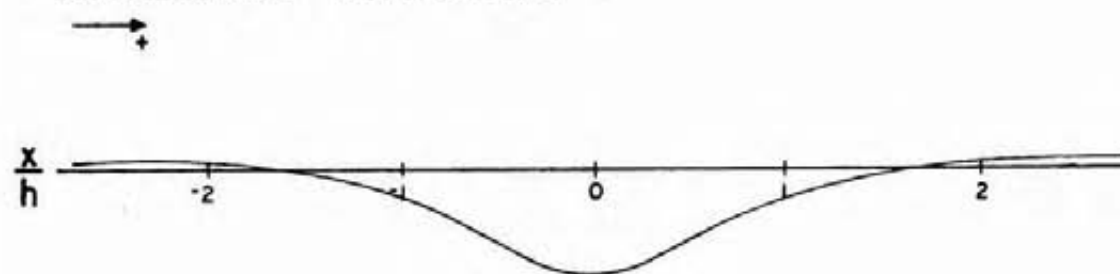
### FLAT LYING TABULAR BODY



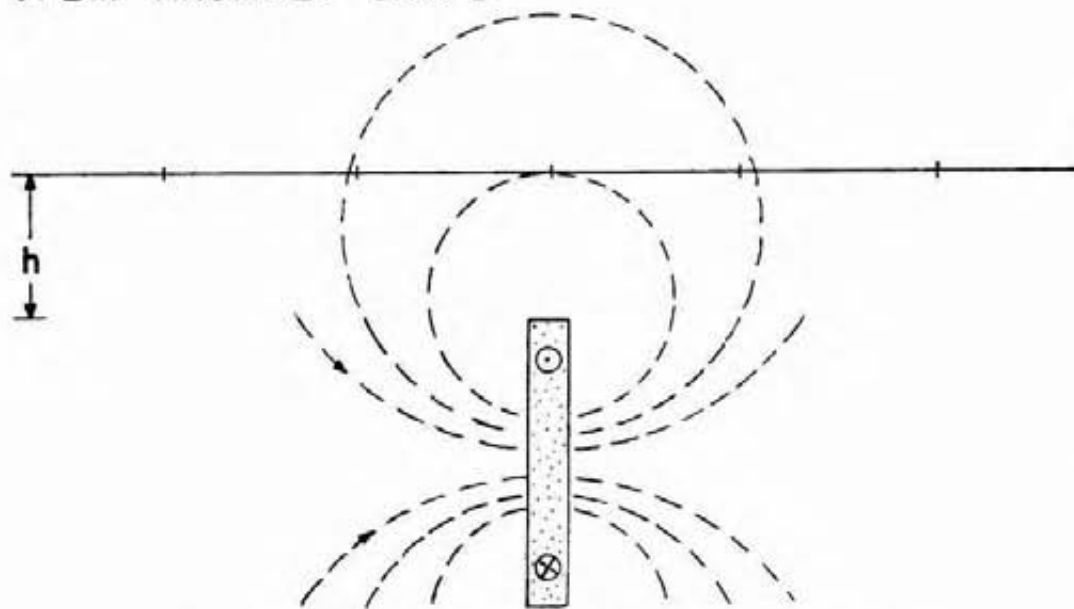
### VERTICAL COMPONENT



### HORIZONTAL COMPONENT



### VPEM ANOMALY SHAPE



STEEPLY DIPPING TABULAR BODY

STATEMENT OF QUALIFICATIONS

NAME: WHITE, Glen E., P.Eng.

PROFESSION: Geophysicist

EDUCATION: B.Sc. Geophysicist - Geology  
University of British Columbia.

PROFESSIONAL ASSOCIATIONS: Registered Professional Engineer,  
Province of British Columbia.  
Associate member of Society of Exploration Geophysicists.  
Past President of B.C. Society of Mining Geophysicists.

EXPERIENCE: Pre-Graduate experience in Geology -  
Geochemistry - Geophysics with Anaconda  
American Brass.  
Two years Mining Geophysicist with  
Sulmac Exploration Ltd. and Airborne  
Geophysics with Spartan Air Services  
Ltd.  
One year Mining Geophysicist and Technical  
Sales Manager in the Pacific  
north-west for W.P. McGill and Associates.  
Two years Mining Geophysicist and  
supervisor Airborne and Ground Geophysical  
Divisions with Geo-X Surveys  
Ltd.  
Two years Chief Geophysicist Tri-Con  
Exploration Surveys Ltd.  
Twelve years Consulting Geophysicist.  
Active experience in all Geologic provinces  
of Canada.

COST BREAKDOWNHorizontal Loop Survey

Production: July 5-16,22, Aug.3-5/82,  
 15 days @ \$725.....\$10,875.00  
 Mobilization: (pro-rated @ 55% of total  
 survey costs).....533.50  
 Airfares: (pro-rated @ 55% of total  
 survey costs).....691.35  
 Airfreight: (pro-rated @ 55% of total  
 survey costs).....293.28  
 Related Mob./Demob. costs: (pro-rated  
 @ 55% of total survey costs)....17.16  
 Sub total.....\$12,410.29

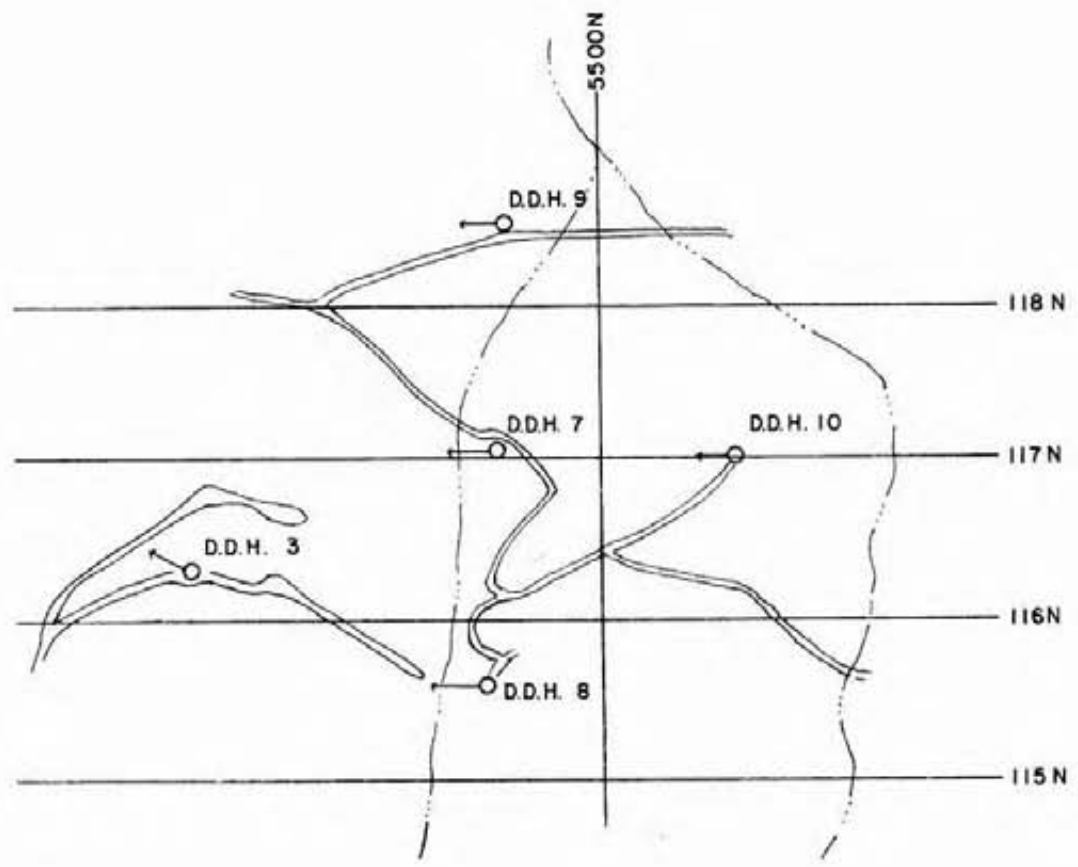
Downhole

Production: (resistivity) July 25-27/82,  
 3 days @ \$570.....1,710.00  
 (PEM) July 28-31/82, 4 days  
 @ \$810.....3,240.00  
 Mobilization: 2 days @ \$405.....810.00  
 Airfares:.....419.00  
 Airfreight.....978.36  
 Materials (triple beam balance &  
 graduated cylinder).....161.90  
 Sub total.....\$7,319.26  
 Computer processing - Downhole -  
 11 sections @ \$15.....165.00

cont....

cont....

Computer processing: 23 lines @ \$15/line....	\$345.00
122 feet @ \$4/foot.....	488.00
Composite profile maps (2)/digitizing....	1200.00
Drafting and binding: 335 hours @ \$25/hr.....	837.50
Reproduction and materials (16 reports).....	722.45
Interpretation and report.....	1,625.00
Shipping.....	20.00
	<hr/>
Sub total.....	\$5,402.45
TOTAL.....	<u>\$25,132.50</u>



**CORDILLERAN ENGINEERING LTD.  
DRILL HOLE LOCATION MAP**

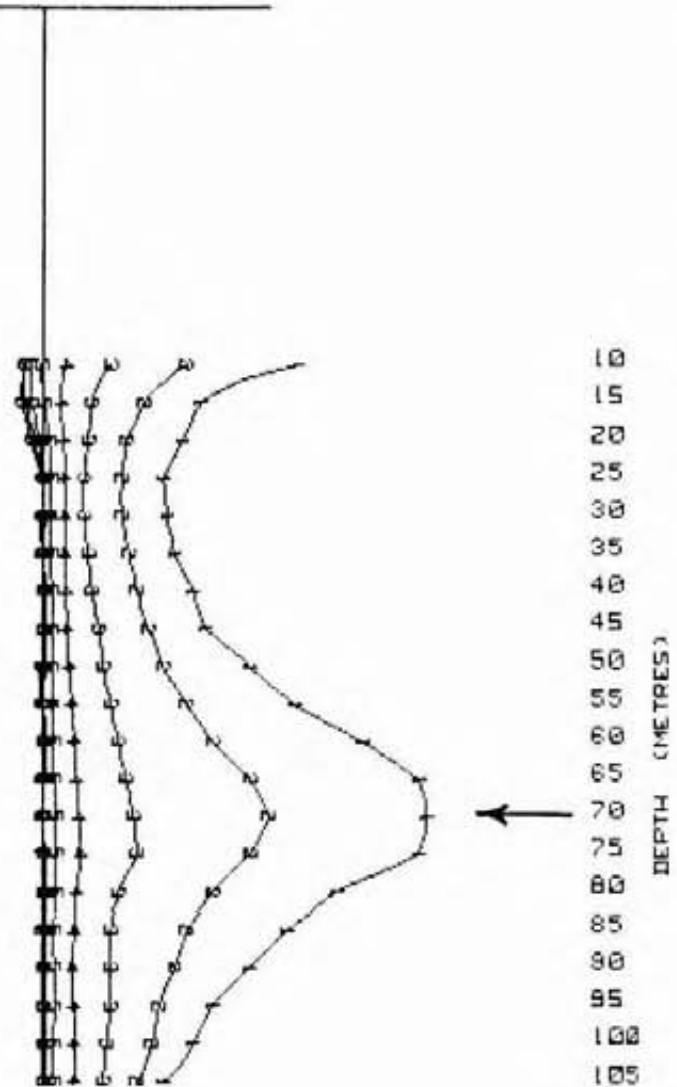
SCALE 1:5000

*Glen E. White*  
geophysical consulting  
services Ltd

-1200 -1000 -800 -600 -400 -200 0 200 400 600 800 1000 1200

GRID  
NORTH

F O  
DDH-3



TIME BASE=20ms.  
CONSTANT GAIN, (100%)

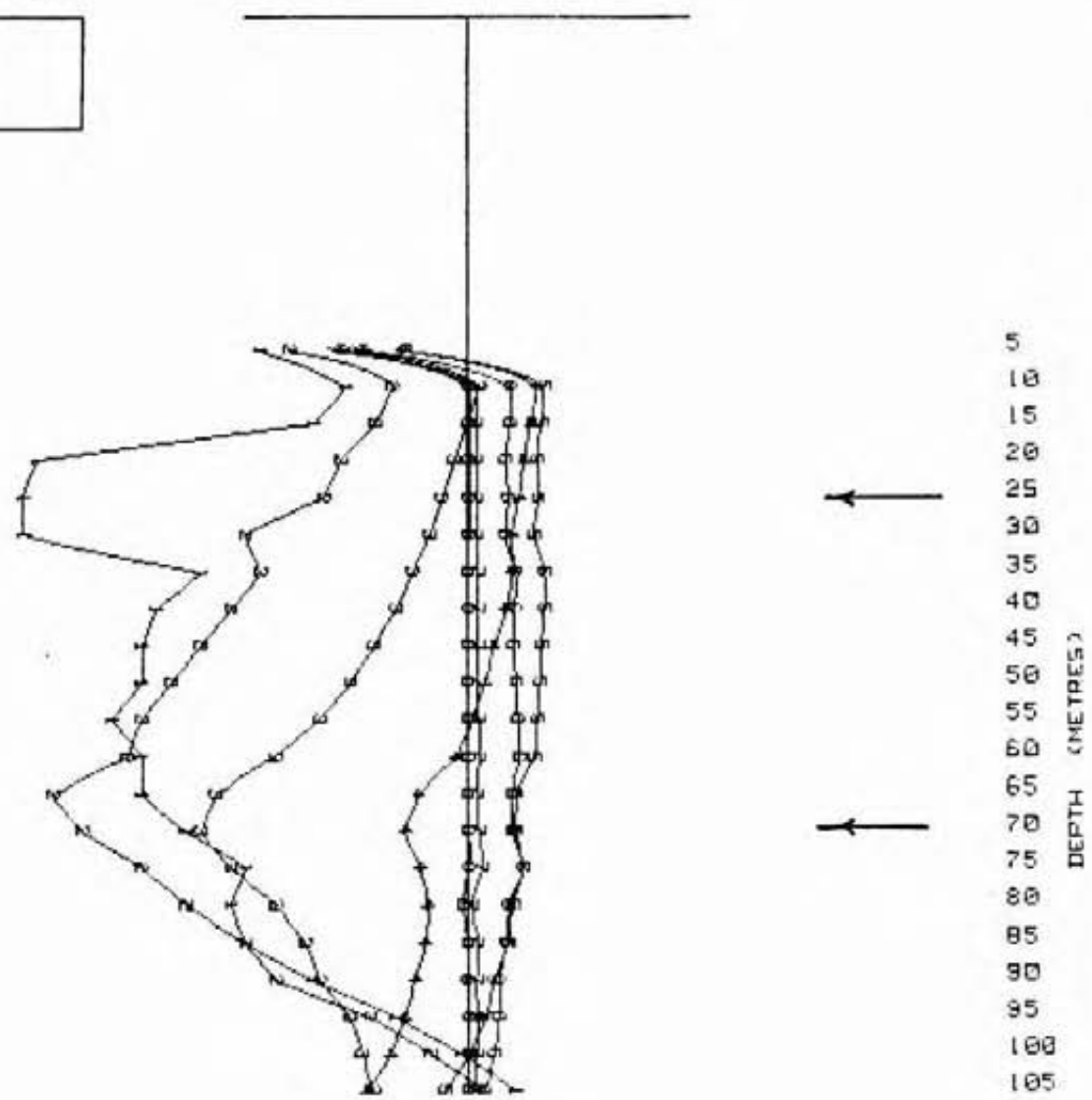
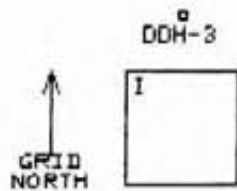
GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

CORDILLERAN ENGINEERING  
DISCOVERY GRID  
BOREHOLE PULSE ELECTROMAGNETOMETER  
DDH-3 F

DATE: JULY/82

FIG.: 28

-300 -250 -200 -150 -100 -50 0 50 100 150 200 250 300



TIME BASE-20ms.  
CONSTANT GAIN, (20%)

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

CORDILLERAN ENGINEERING  
DISCOVERY GRID  
BOREHOLE PULSE ELECTROMAGNETOMETER  
DDH-3 I

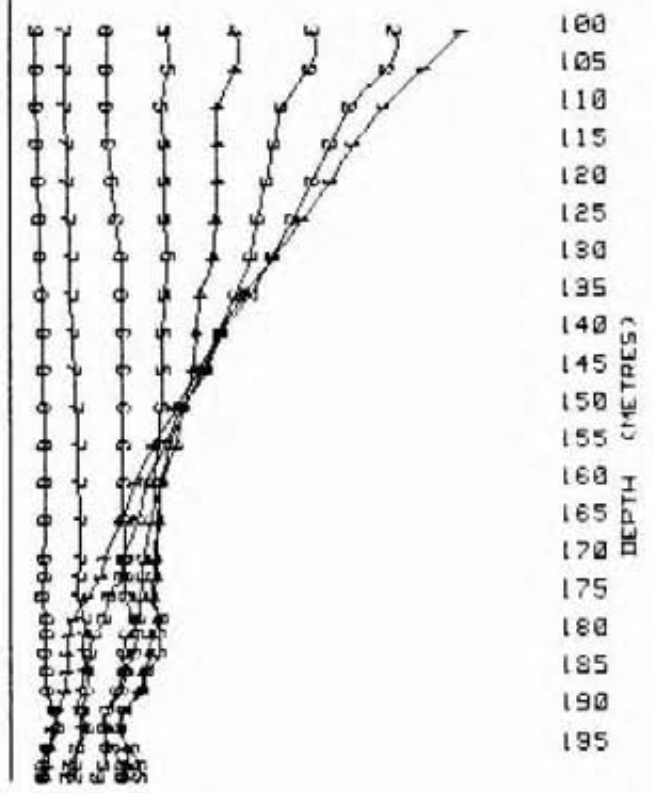
DATE: JULY/82

FIG.: 29

-1200 -1000 -800 -600 -400 -200 0 200 400 600 800 1000 1200

GRID  
NORTH

A1  
DDH-7



100  
105  
110  
115  
120  
125  
130  
135  
140  
145  
150  
155  
160  
165  
170  
175  
180  
185  
190  
195  
DEPTH (METRES)

TIME BASE-10ms.  
CONSTANT GAIN, (10%)

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

CORDILLERAN ENGINEERING  
DISCOVERY GRID  
BOREHOLE PULSE ELECTROMAGNETOMETER  
DDH-7 A1

DATE: JULY/82

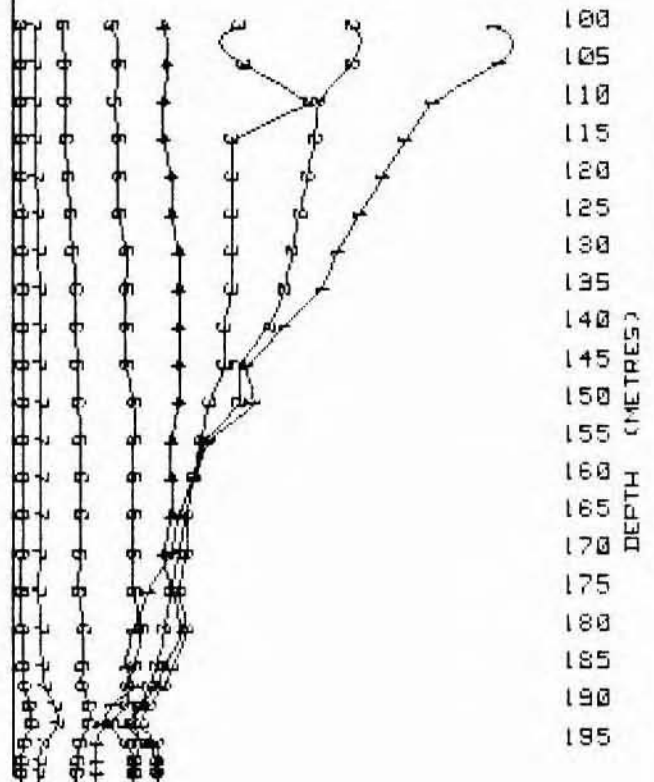
FIG.: 30



-600 -500 -400 -300 -200 -100 0 100 200 300 400 500 600

GRID  
NORTH

A2  
DDH-7



TIME BASE=20ms.  
CONSTANT GAIN, (10%)

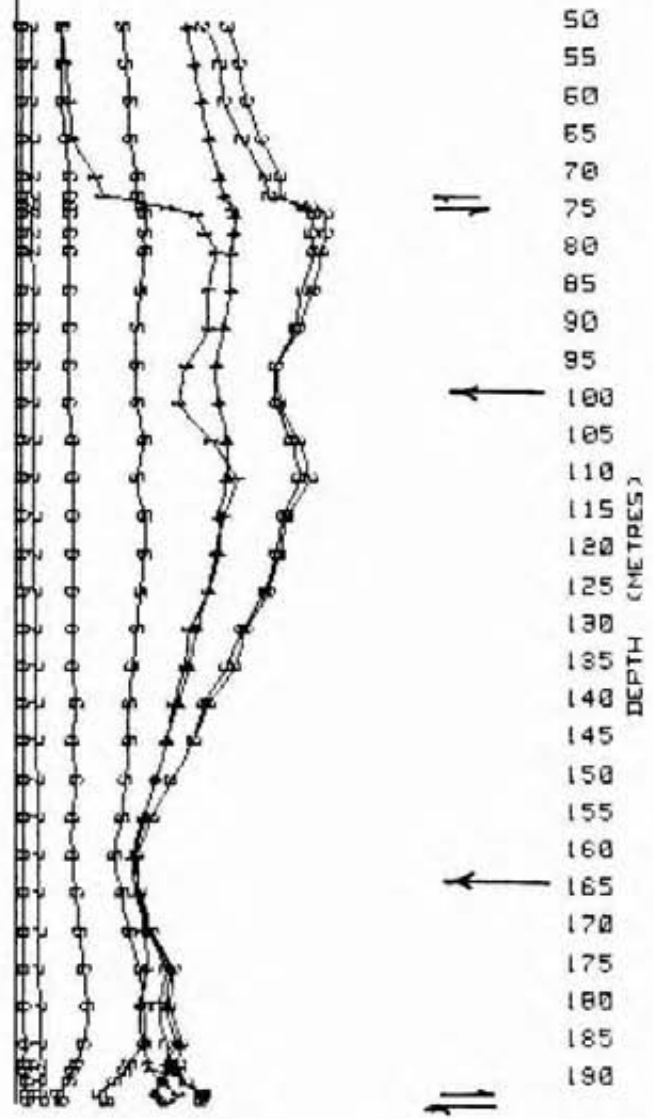
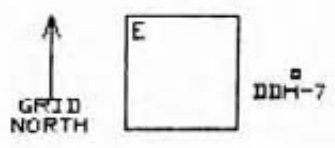
GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

CORDILLERAN ENGINEERING  
DISCOVERY GRID  
BOREHOLE PULSE ELECTROMAGNETOMETER  
DDH-7 A2

DATE: JULY/82

FIG.: 31

-1200 -1000 -800 -600 -400 -200 0 200 400 600 800 1000 1200



TIME BASE=20ms.  
CONSTANT GAIN, (50%)

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

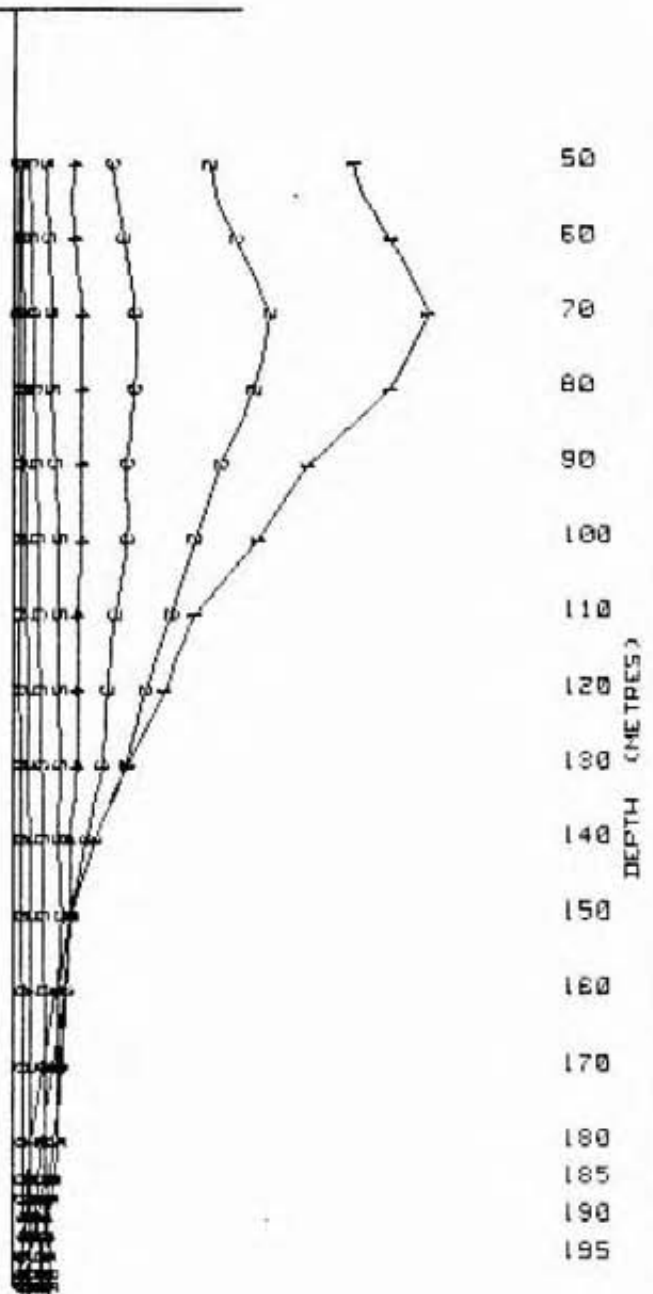
CORDILLERAN ENGINEERING  
DISCOVERY GRID  
BOREHOLE PULSE ELECTROMAGNETOMETER  
DDH-7 E

DATE: JULY/82      FIG.: 32

-1200 -1000 -800 -600 -400 -200 0 200 400 600 800 1000 1200

GRID  
NORTH

6MI ○ DDH-7



TIME BASE-10ms.  
CONSTANT GAIN, (100%)

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

CORDILLERAN ENGINEERING  
DISCOVERY GRID  
BOREHOLE PULSE ELECTROMAGNETOMETER  
DDH-7 6MI

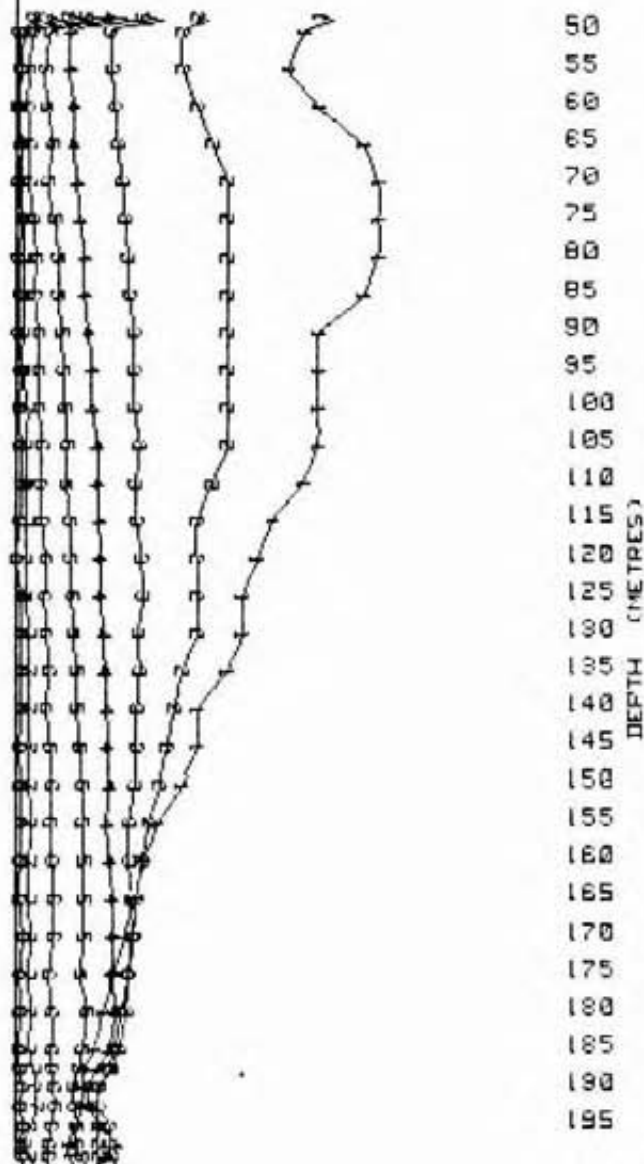
DATE: JULY/82

FIG.: 33

-300 -250 -200 -150 -100 -50 0 50 100 150 200 250 300

GRID  
NORTH

6M2 ○ □  
DDH-7



TIME BASE-20ms.

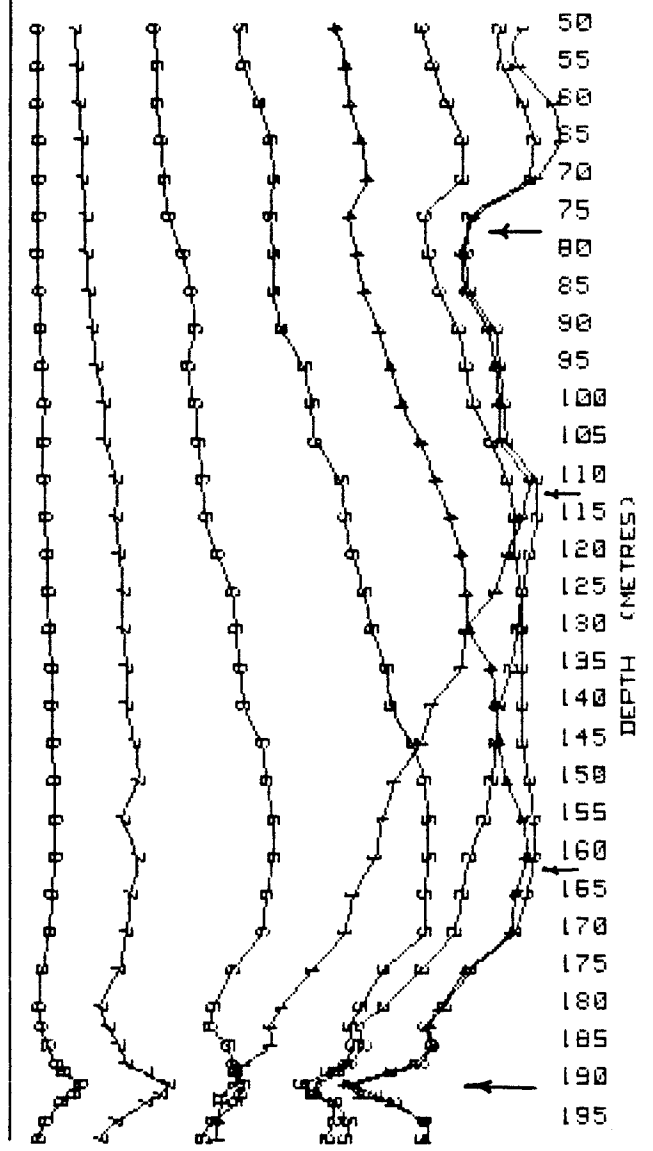
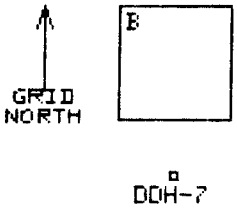
CONSTANT GAIN, (100%)

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

CORDILLERAN ENGINEERING  
DISCOVERY GRID  
BOREHOLE PULSE ELECTROMAGNETOMETER  
DDH-7 6M2

DRTE: JULY/82

FIG.: 34



TIME BASE-20ms.  
 CONSTANT GAIN, (50%)

GLEN E. WHITE  
 GEOPHYSICAL CONSULTING  
 & SERVICES LTD.

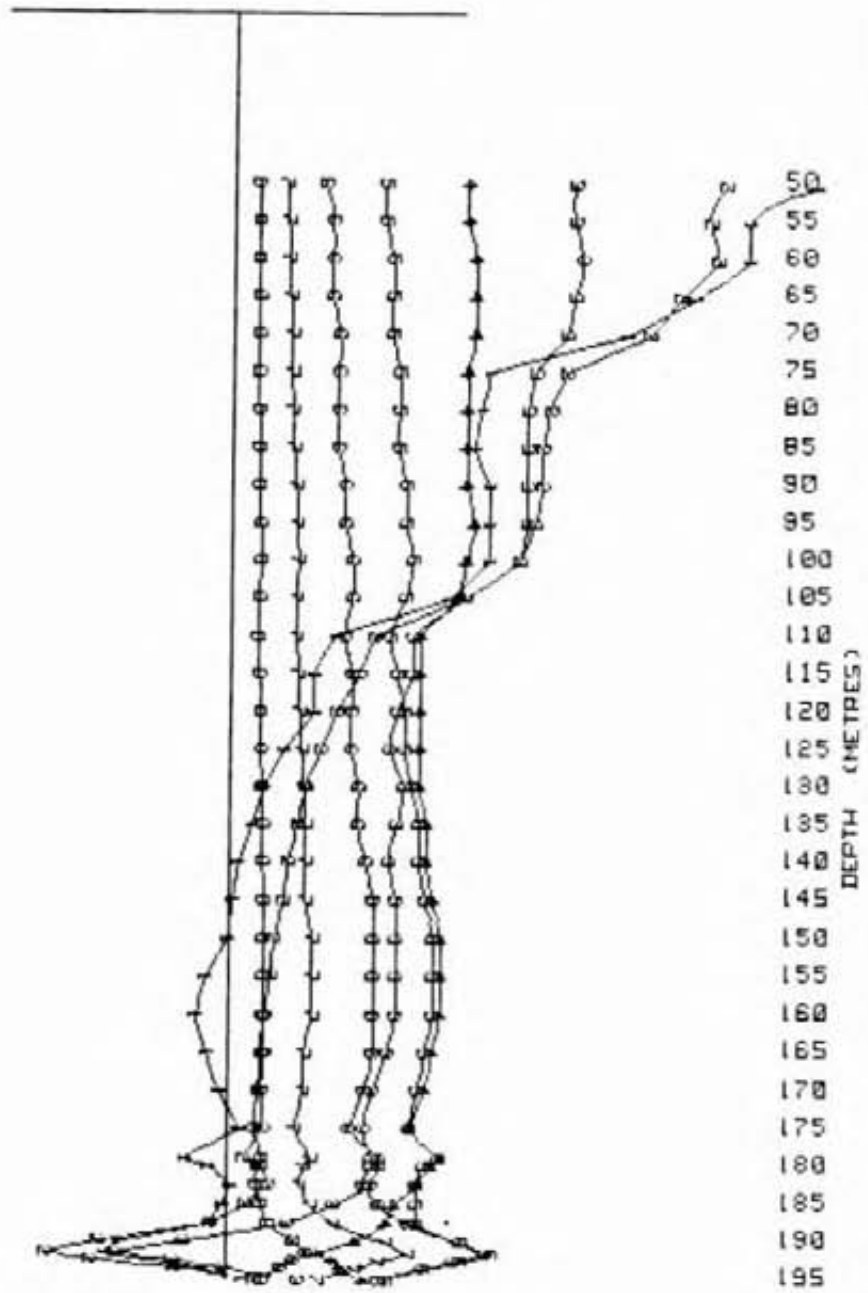
CORDILLERAN ENGINEERING  
 DISCOVERY GRID  
 BOREHOLE PULSE ELECTROMAGNETOMETER  
 DDH-7 B

DATE: JULY/82

FIG.: 35

-600 -500 -400 -300 -200 -100 0 100 200 300 400 500 600

DDH-7  
C  
GRID  
NORTH



TIME BASE=20ms.  
CONSTANT GAIN, (50%)

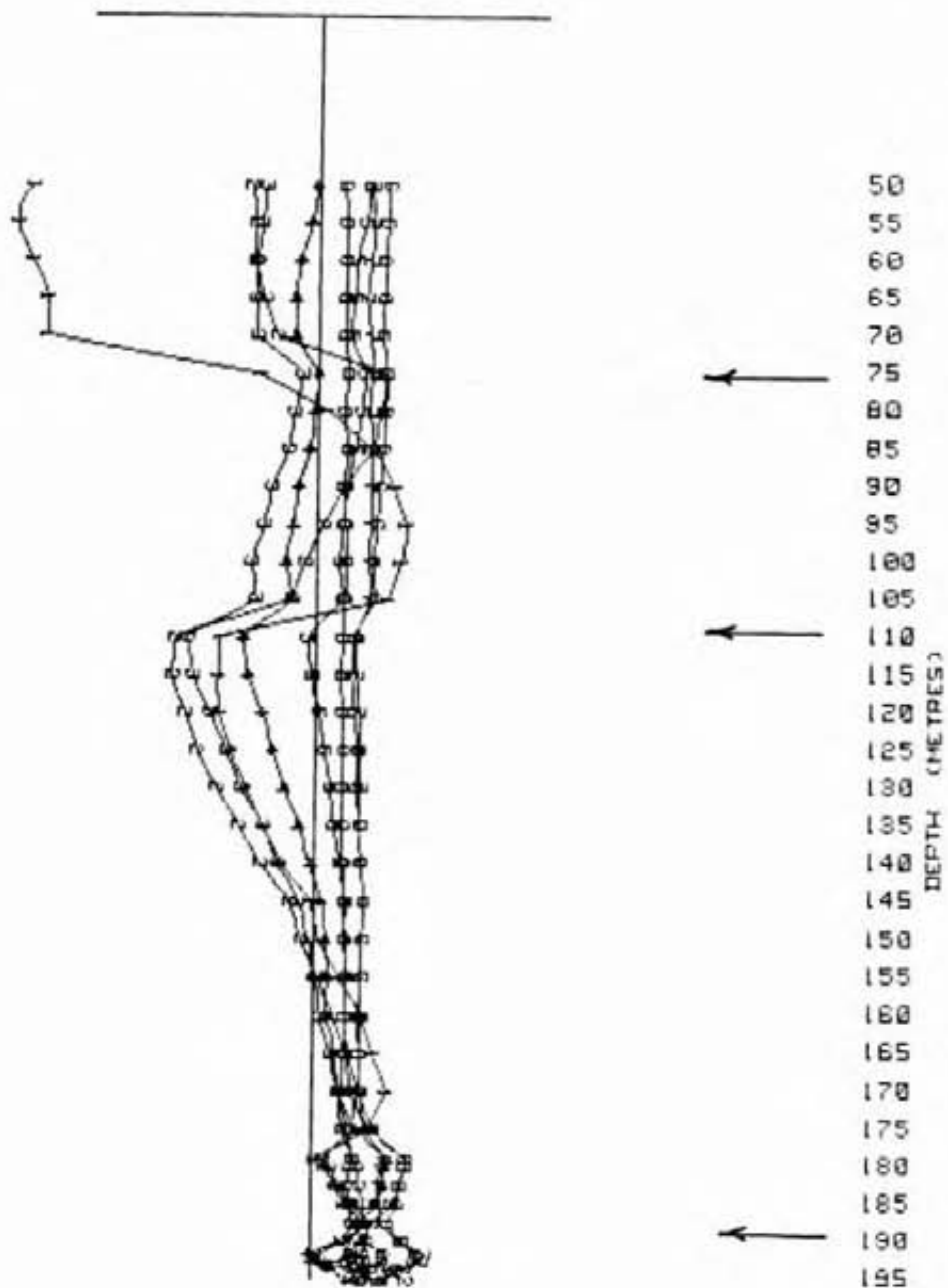
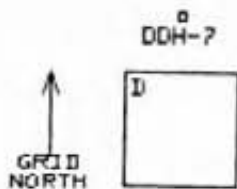
GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

CORDILLERAN ENGINEERING  
DISCOVERY GRID  
BOREHOLE PULSE ELECTROMAGNETOMETER  
DDH-7 C

DATE: JULY/82

FIG.: 36

-300 -250 -200 -150 -100 -50 0 50 100 150 200 250 300



TIME BASE=20ms.

CONSTANT GAIN, (50%)

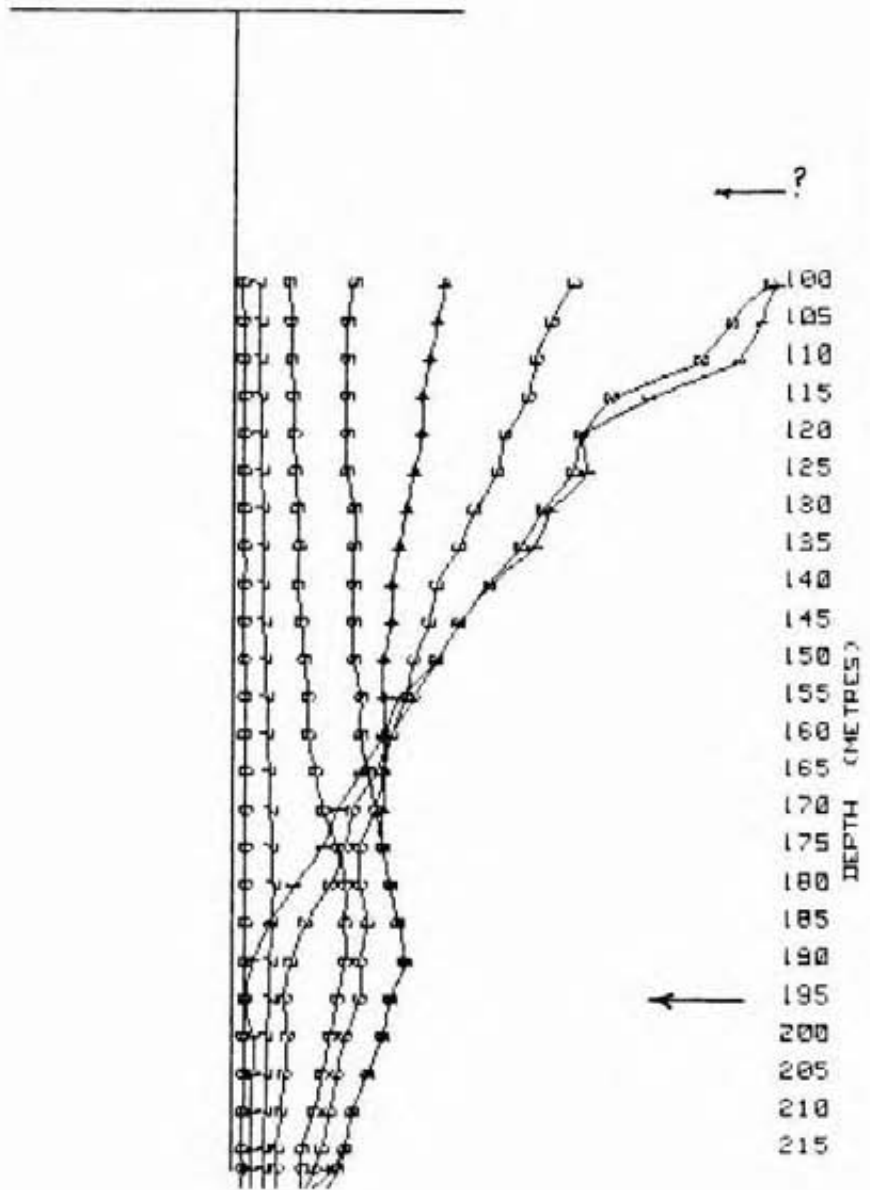
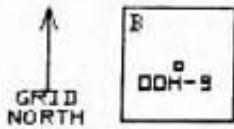
GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

CORDILLERAN ENGINEERING  
DISCOVERY GRID  
BOREHOLE PULSE ELECTROMAGNETOMETER  
DDH-7 D

DATE: JULY/82

FIG.: 37

-600 -500 -400 -300 -200 -100 0 100 200 300 400 500 600



TIME BASE-20ms.  
CONSTANT GAIN, (10%)

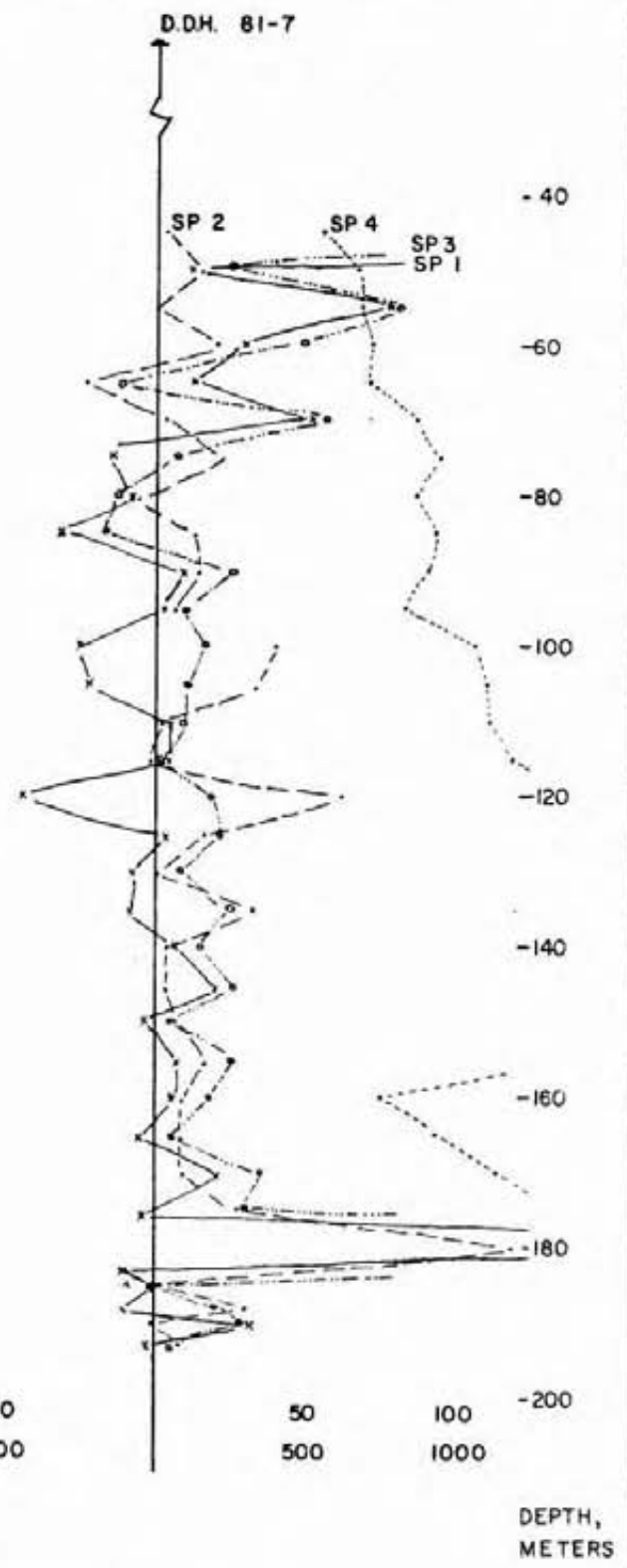
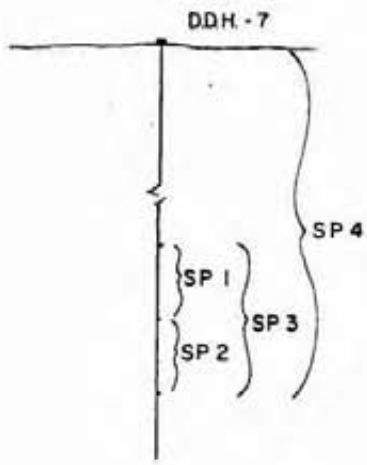
GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

CORDILLERAN ENGINEERING  
DISCOVERY GRID  
BOREHOLE PULSE ELECTROMAGNETOMETER  
DDH-9 B

DATE: JULY/82

FIG.: 38

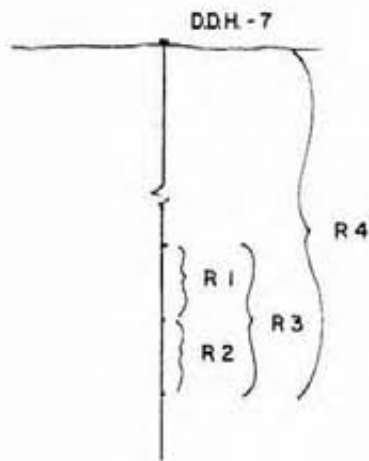




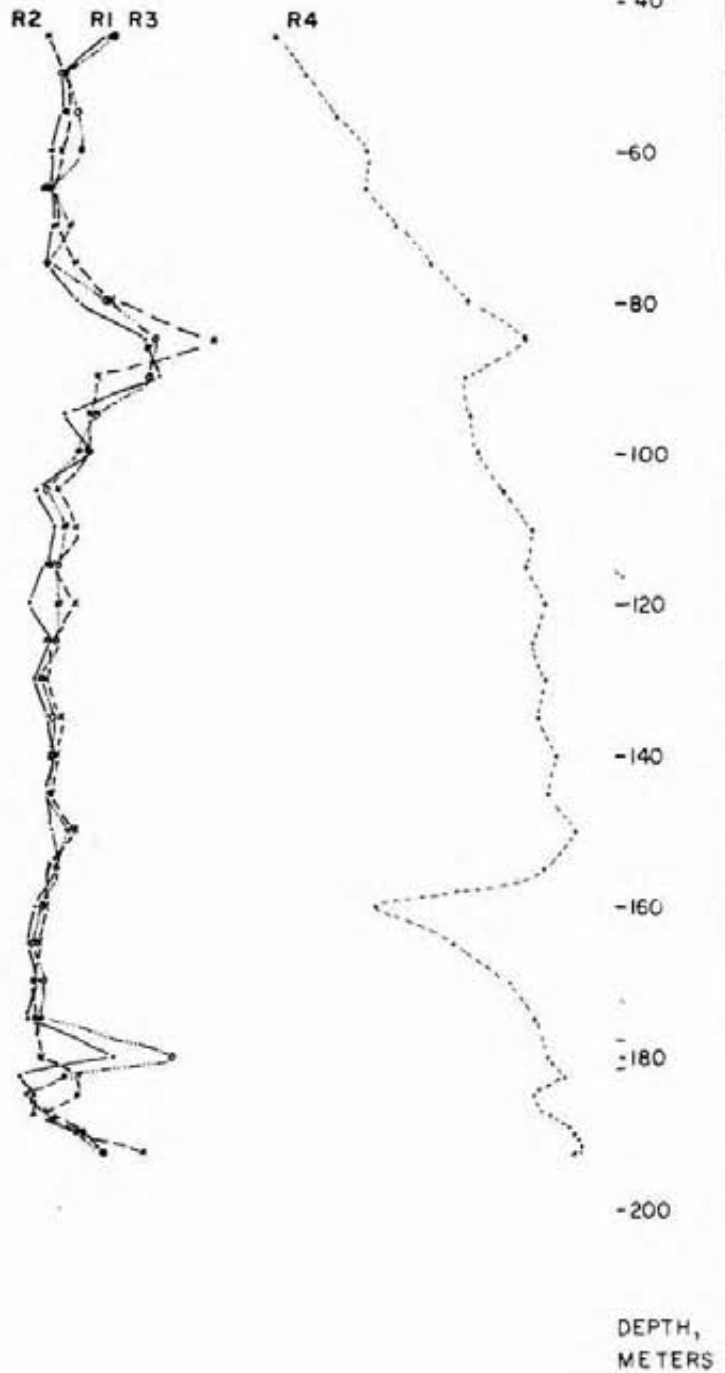
SP 1,2,3 -50  
 SP 4 -500

SELF POTENTIAL SURVEY, DDH - 7

*John E. White*  
 geophysical consulting  
 &  
 services, Inc.

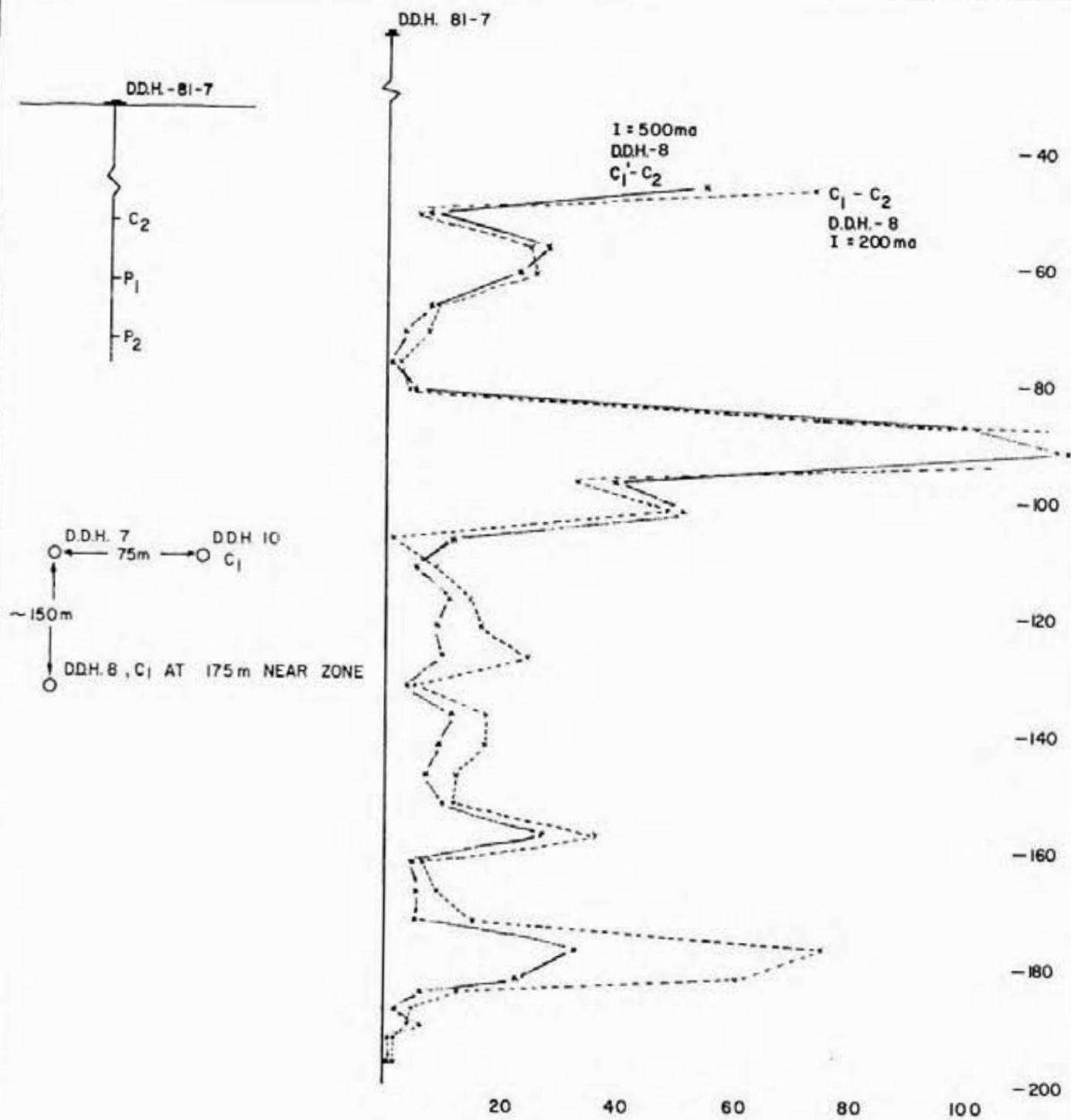


D.D.H. 81-7



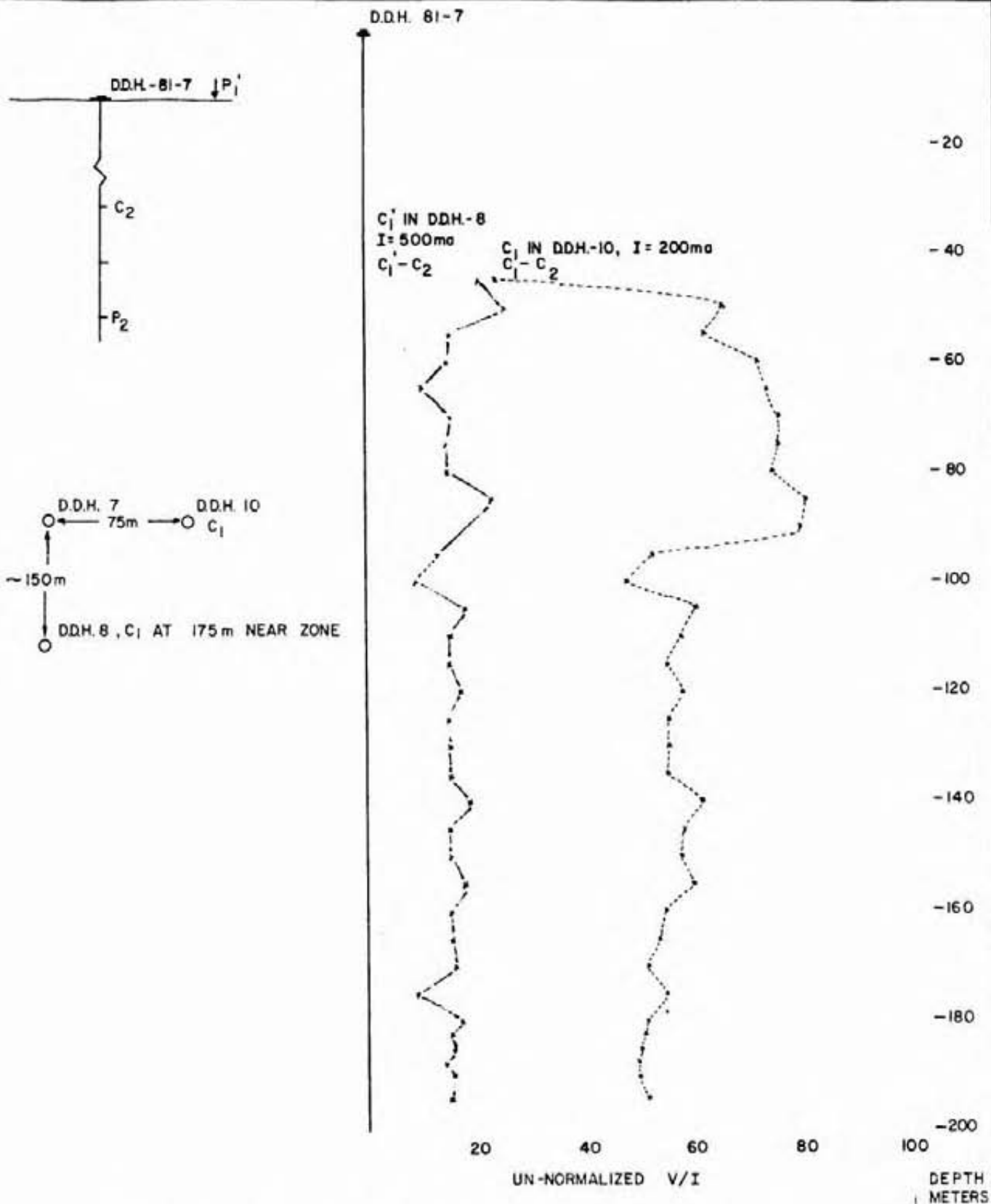
SIMPLE RESISTANCE , D.D.H. - 7

*John E. White*  
 geophysical consulting  
 &  
 services, Inc.



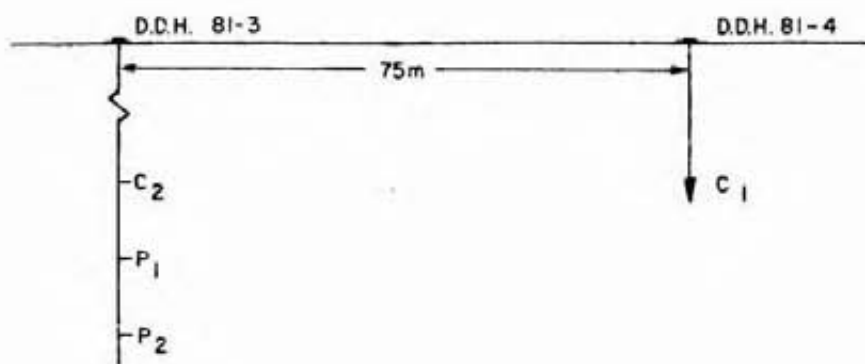
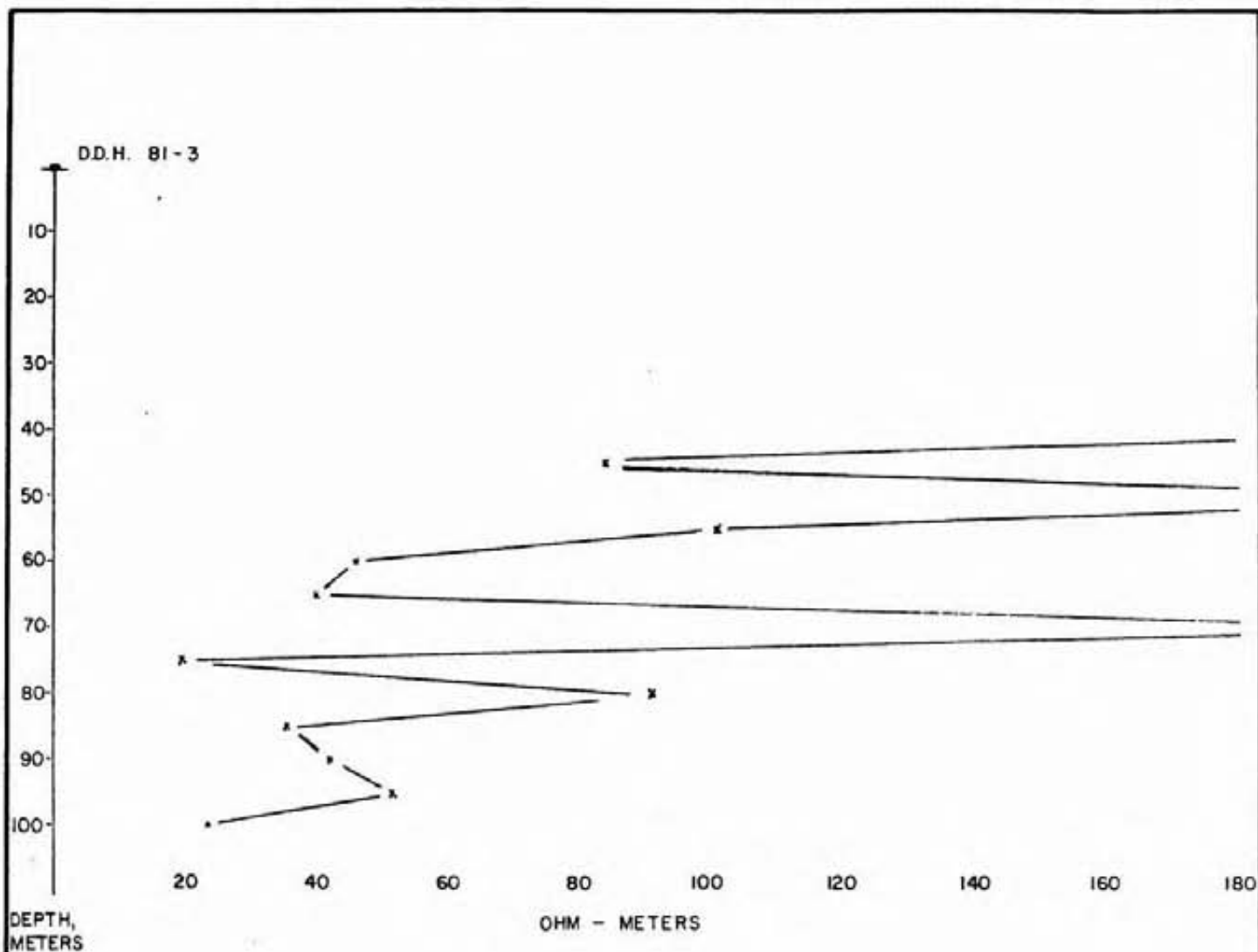
POLE-DIPOLE APPARENT RESISTIVITY, D.D.H.-7

Glen E. White  
geophysical consulting  
company, Inc.

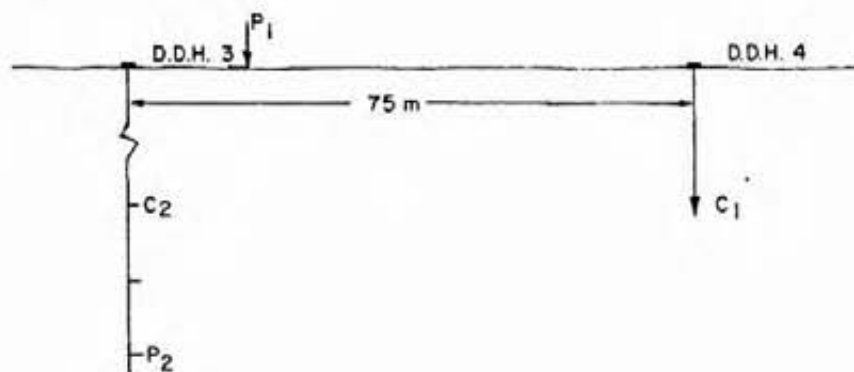
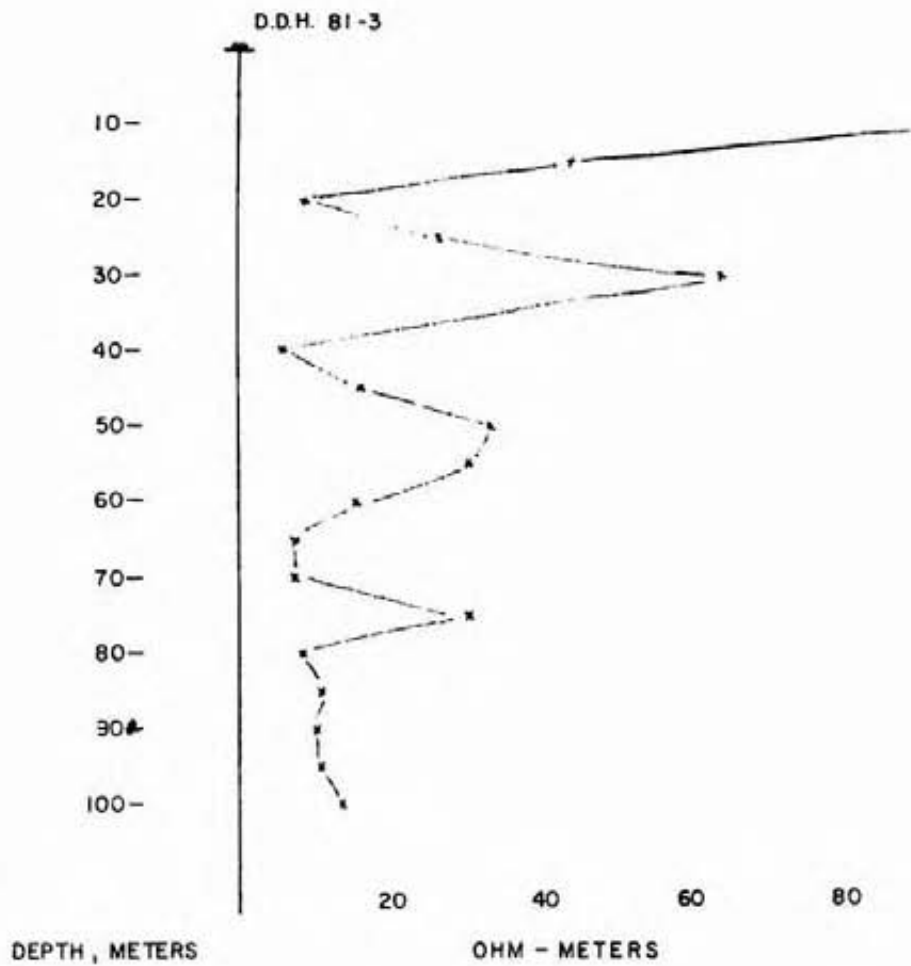


POLE-POLE APPARENT RESISTIVITY, D.D.H. - 7

Stan E. White  
 geophysical consulting  
 services, Inc.



POLE - DIPOLE APPARENT RESISTIVITY , D.D.H. - 3



POLE - POLE APPARENT RESISTIVITY, D.D.H. - 3

Vector Pulse Electromagnetometer Data Listing

CORDILLERAN ENGINEERING LTD. - DISCOVERY GRID & TOUR CREEK GRID

Listing explanation:

Heading:

Line, Transmitter-Receiver Separation and Survey date

Table:

STATION: Plotting station

V1-V8: Secondary field vertical component, positive upwards

Channel 1-8 sample times: .15, .45, .85, 1.45, 2.45, 3.75, 5.85, 8.85  
milliseconds

ELV: Relative Elevation in Metres

GLEN E. WHITE Geophysical Consulting & Services Ltd.

STATION	V1	V2	V3	V4	V5	V6	V7	V8	ELV
---------	----	----	----	----	----	----	----	----	-----

Line 12400N, Separation 75 metres, Survey date 7/7/82

5038E	-13	-8	-8	-5	-3	-5	-5	-3	0
5063E	-14	-12	-10	-7	-5	-2	-2	0	-7
5088E	-18	-12	-9	-6	-3	-6	0	3	-12
5113E	-25	-14	-14	-11	-7	-7	-11	-4	-16
5138E	-29	-19	-14	-10	-7	-10	-7	0	-20
5163E	6	0	0	0	0	-3	-3	-3	-23
5188E	60	42	19	12	2	-5	-5	5	-25
5213E	68	59	36	23	14	2	-2	7	-28
5238E	4	7	11	11	9	-2	-4	-2	-30
5263E	-40	-35	-23	-14	-7	-7	-5	2	-30
5288E	-60	-52	-40	-26	-18	-12	-4	0	-30
5313E	-74	-64	-52	-40	-29	-17	-7	0	-30
5338E	-58	-48	-42	-29	-23	-19	-6	3	-30
5363E	-40	-29	-24	-18	-16	-13	-7	-2	-30
5388E	-41	-30	-18	-16	-14	-14	-11	-7	-30
5413E	-36	-24	-18	-12	-12	-12	-12	-6	-30
5438E	-33	-21	-14	-7	-7	-7	-5	-2	-30
5463E	-40	-23	-12	-9	-5	-7	-5	0	-29
5488E	-37	-22	-13	-7	-4	-6	-4	0	-29
5513E	-37	-21	-14	-7	-7	-7	-7	-5	-29
5538E	-35	-19	-14	-8	-5	-5	-5	-5	-28
5563E	-39	-24	-14	-8	-4	-6	-4	0	-25
5588E	-35	-20	-11	-5	-3	-3	-3	-2	-23
5613E	-47	-21	-12	-2	2	2	2	5	-22
5638E	-38	-21	-8	-4	-4	-4	-4	0	-22
5663E	-39	-22	-12	-4	-2	-4	-4	-2	-19
5688E	-40	-26	-14	-6	-3	-6	-3	0	-14
5713E	-44	-31	-17	-6	-3	-3	-3	3	-11
5738E	-40	-22	-9	-4	-2	-2	-2	2	-7
5763E	-31	-16	-8	-3	-2	-2	-2	3	-3

Line 12200N, Separation 75 metres, Survey date 7/7/82

5038E	-7	-5	-2	0	2	0	-2	-2	-18
5063E	-14	-9	-3	-3	-3	-3	-3	-3	-23
5088E	-18	-9	-3	0	0	-3	-3	0	-27
5113E	-12	-5	-1	0	1	0	0	1	-30
5138E	-19	-10	-5	-2	-2	-2	-5	-2	-32
5163E	-19	-9	-4	0	0	0	0	4	-36
5188E	24	15	5	2	2	-2	-2	2	-41
5213E	33	18	8	5	5	2	0	2	-41
5238E	22	14	10	8	6	3	2	2	-41
5263E	-61	-31	-13	-6	0	0	2	4	-42
5288E	-66	-44	-24	-16	-12	-6	-4	2	-43
5313E	-48	-39	-30	-21	-20	-13	-10	-2	-44
5338E	-45	-34	-24	-18	-16	-13	-8	3	-44
5363E	-43	-26	-17	-14	-12	-9	-6	0	-43
5388E	-42	-29	-21	-15	-15	-13	-10	-8	-44
5413E	-39	-22	-13	-9	-7	-6	-6	-3	-44
5438E	-36	-24	-14	-10	-7	-7	-7	-5	-44
5463E	-32	-19	-11	-6	-2	-2	-2	2	-44
5488E	-37	-20	-9	-5	-3	-2	-2	2	-44
5513E	-42	-19	-9	-6	-2	-2	-2	-2	-44
5538E	-37	-16	-7	-1	0	0	0	1	-43



STATION	V1	V2	V3	V4	V5	V6	V7	V8	ELV
5563E	-42	-18	-9	-2	2	0	0	0	-41
5588E	-44	-20	-9	-4	-2	0	0	2	-40
5613E	-35	-16	-8	-2	2	0	0	0	-40
5638E	-38	-14	-7	0	2	0	0	2	-39
5663E	-35	-16	-9	-2	0	0	2	-2	-35
5688E	-57	-29	-14	0	5	5	0	-5	-27
5713E	-65	-39	-16	-6	0	0	0	3	-20
5738E	-19	-8	-3	0	1	1	1	1	-10
5763E	-32	-17	-8	-3	0	-2	-2	-2	0

Line 12000N, Separation 75 metres, Survey date 6/7/82

5038E	-13	-7	-7	0	-2	-2	-2	-2	0
5063E	-16	-12	-7	-5	-2	-2	-2	-2	-5
5088E	-24	-14	-8	-4	-2	-2	-2	0	-8
5113E	-20	-12	-8	-5	-3	-3	-1	0	-12
5138E	-28	-17	-11	-6	-4	-4	-4	0	-13
5163E	-16	-12	-9	-7	-5	-5	-5	0	-17
5188E	-1	-1	-3	-3	-3	-1	-1	0	-17
5213E	3	-2	-5	-5	-3	-2	-2	0	-17
5238E	10	-3	-10	-9	-3	-2	-2	-2	-17
5263E	26	7	-12	-13	-9	-6	-6	-3	-15
5288E	-3	-13	-22	-19	-12	-9	-6	-4	-12
5313E	-34	-36	-36	-26	-18	-10	-6	-4	-12
5338E	-52	-62	-57	-40	-29	-17	-12	-7	-13
5363E	-39	-42	-40	-30	-23	-16	-11	-5	-13
5388E	-48	-43	-34	-26	-21	-16	-12	-7	-13
5413E	-56	-40	-29	-24	-18	-15	-10	-6	-14
5438E	-60	-40	-26	-22	-16	-12	-9	-5	-12
5463E	-56	-33	-22	-16	-13	-9	-7	-4	-9
5488E	-48	-29	-15	-10	-8	-6	-6	-4	-6
5513E	-51	-30	-19	-13	-9	-8	-6	-4	-5
5538E	-49	-29	-16	-9	-4	-2	-2	0	-5
5563E	-43	-24	-13	-6	-3	-3	-3	-2	-4
5588E	-44	-20	-10	-4	-2	0	-2	-2	-3
5613E	-40	-19	-9	-2	2	0	0	0	-2
5638E	-51	-23	-13	-5	-3	-3	-5	-3	-1
5663E	-58	-27	-12	-6	-2	-2	-2	0	3
5688E	-62	-42	-19	-8	0	0	4	8	8
5713E	-44	-31	-23	-19	-19	-17	-13	-4	15
5738E	-46	-29	-18	-7	0	0	0	0	23
5763E	-45	-28	-17	-3	0	0	0	3	27

Line 11000N, Separation 75 metres, Survey date 16/7/82

5038E	-107	-87	-53	-33	-20	-20	-13	0	-3
5063E	-73	-58	-38	-18	-10	-8	-5	-3	3
5088E	-58	-43	-27	-13	-8	-7	-5	-2	6
5113E	-87	-62	-38	-21	-10	-8	-5	-3	4
5138E	-69	-59	-44	-22	-16	-16	-13	-9	0
5163E	-18	-18	-21	-15	-12	-9	-9	-3	-3
5188E	5	-3	-8	-6	-3	-3	-2	0	-4
5213E	-43	-40	-23	-9	0	0	-3	3	-4
5238E	-9	-55	-48	-34	-11	-7	-2	0	-6
5263E	-7	-53	-54	-44	-26	-11	-5	0	-8
5288E	-10	-69	-74	-69	-45	-24	-10	-2	-6
5313E	-55	-76	-72	-58	-42	-26	-12	-4	-8

STATION	V1	V2	V3	V4	V5	V6	V7	V8	ELV
5338E	-87	-87	-77	-58	-42	-29	-13	-6	-11
5363E	-129	-109	-83	-60	-40	-26	-14	-5	-11
5388E	-122	-103	-76	-55	-36	-23	-12	-5	-11
5413E	-97	-85	-67	-46	-30	-16	-10	-3	-11
5438E	-93	-80	-64	-44	-29	-16	-13	-7	-11
5463E	-75	-62	-46	-32	-22	-11	-8	-5	-12
5488E	-94	-67	-46	-31	-19	-13	-6	-4	-13
5513E	-97	-62	-40	-25	-15	-11	-8	-5	-13
5538E	-98	-67	-37	-26	-14	-9	-7	-7	-13
5563E	-63	-45	-29	-18	-8	-8	-5	5	-13
5588E	-35	-35	-28	-18	-10	-10	-5	-5	-13
5613E	-9	-23	-21	-14	-12	-9	-7	-5	-13
5638E	7	-9	-14	-12	-7	-2	0	0	-12
5663E	-39	-33	-21	-12	-6	-3	-3	-3	-12
5688E	-88	-59	-29	-15	-6	-6	-6	-3	-12
5713E	-83	-56	-29	-13	-6	-4	-2	-2	-11
5738E	-64	-48	-30	-14	-8	-2	-2	0	-11
5763E	-54	-44	-31	-15	-8	-4	-2	-2	-11
5788E	-45	-35	-25	-18	-10	-5	-5	-3	-9
5813E	-66	-46	-31	-20	-9	-6	-6	-3	-7
5838E	-50	-36	-23	-14	-7	-2	0	5	-5
5863E	-51	-37	-26	-17	-9	-6	-6	-3	-5
5888E	-52	-31	-19	-13	-6	-4	-2	0	-5
5913E	-58	-33	-20	-13	-8	-3	0	3	-4
5938E	-47	-26	-16	-9	-5	-4	-4	-2	-4
5963E	-60	-36	-19	-12	-7	-5	-5	-2	-4
5988E	-59	-36	-17	-10	-5	-5	-3	-2	-4
6013E	-59	-36	-20	-11	-5	-5	-2	-2	-3
6038E	-54	-38	-19	-14	-5	-5	-3	-3	1
6063E	-48	-30	-15	-8	-5	-5	-5	-3	0

Line 11800N, Separation 75 metres, Survey date 22/7/82

5113E	-97	-66	-39	-24	-11	-8	-8	-3	4
5138E	-54	-40	-31	-17	-9	-9	-6	0	0
5163E	-8	-16	-16	-13	-8	-8	-5	-3	-3
5188E	14	3	-11	-3	-3	-9	-6	-3	-4
5213E	-36	-30	-18	-9	0	0	0	3	-4
5238E	-21	-53	-47	-28	-12	-9	-5	0	-6
5263E	-3	-54	-60	-49	-31	-15	-8	0	-8
5288E	33	-26	-45	-40	-29	-17	-7	0	-6
5313E	-53	-74	-68	-51	-36	-21	-9	-2	-8

Line 11800N, Separation 50 metres, Survey date 31/7/82

5100E	-27	-18	-10	-6	-3	-2	-1	0	5
5125E	-38	-23	-14	-7	-4	-2	-1	1	2
5150E	-30	-20	-13	-6	-3	-3	-2	4	-1
5175E	-14	-11	-8	-5	-3	-2	-2	1	-3
5200E	-63	-35	-16	-6	-1	-1	-1	1	-4
5225E	-97	-80	-46	-22	-7	-2	-2	-1	-5
5250E	-35	-31	-22	-14	-6	-3	-1	0	-7
5275E	-57	-45	-32	-20	-13	-6	-2	1	-7
5300E	-74	-60	-43	-27	-17	-8	-3	0	-7
5325E	-81	-60	-41	-26	-16	-10	-5	-1	-9
5350E	-76	-55	-38	-24	-16	-8	-4	-2	-11
5375E	-72	-51	-35	-23	-15	-8	-4	-2	-11

STATION	V1	V2	V3	V4	V5	V6	V7	V8	ELV
---------	----	----	----	----	----	----	----	----	-----

Line 11800N, Separation 25 metres, Survey date 31/7/82

5113E	-4	-3	-2	0	0	0	0	1	4
5138E	-7	-4	-3	-1	-1	-1	-1	0	0
5163E	-6	-4	-2	-1	-1	-1	-1	1	-3
5188E	-13	-5	-2	0	0	-1	0	0	-4
5213E	-30	-18	-8	-3	-1	-1	-1	0	-4
5238E	-23	-14	-8	-3	-2	-1	-1	1	-6
5263E	-14	-7	-4	-2	-1	-1	-1	0	-8
5288E	-21	-14	-7	-4	-2	-2	-1	0	-6
5313E	-30	-15	-8	-4	-2	-2	-1	1	-8
5338E	-20	-14	-7	-4	-2	-2	-1	1	-11
5363E	-15	-9	-6	-3	-2	-2	-1	0	-11
5388E	-11	-8	-6	-3	-2	-2	-1	0	-11

Line 11700N, Separation 75 metres, Survey date 22/7/82

5013E	-88	-76	-47	-29	-12	-12	-12	0	0
5038E	-79	-62	-44	-24	-15	-15	-9	-3	0
5063E	-95	-81	-52	-29	-14	-10	-5	5	0
5088E	-15	-26	-26	-18	-12	-12	-9	-3	0
5113E	117	74	38	21	8	-2	-2	2	0
5138E	93	71	45	29	14	0	-5	0	0
5163E	27	10	3	3	3	2	0	2	0
5188E	-33	-53	-53	-38	-20	-10	-5	-3	0
5213E	-23	-63	-65	-52	-31	-15	-4	2	0
5238E	-153	-151	-126	-88	-51	-23	-7	2	0
5263E	-89	-89	-84	-69	-49	-24	-9	0	0
5288E	-133	-116	-93	-72	-47	-26	-9	2	0
5313E	-174	-163	-126	-93	-48	-37	-15	-4	0
5338E	-109	-129	-122	-100	-73	-44	-20	-7	0
5363E	-43	-63	-71	-63	-49	-31	-14	-3	0
5388E	-86	-81	-71	-55	-40	-25	-14	-5	0
5413E	-88	-75	-57	-45	-31	-20	-12	-6	0
5438E	-117	-91	-66	-45	-30	-19	-11	-6	0
5463E	-104	-83	-57	-40	-26	-15	-9	-6	0
5488E	-100	-70	-48	-30	-20	-12	-8	-6	0
5513E	-83	-60	-42	-27	-17	-13	-8	-4	0
5538E	-76	-58	-36	-24	-12	-12	-9	-3	0
5563E	-66	-44	-26	-16	-10	-6	-4	-2	0

Line 11600N, Separation 75 metres, Survey date 15/7/82

4438E	-5	-3	-3	-3	-3	-3	-3	0	-15
4463E	-7	-3	-3	-3	0	-3	-3	0	-19
4488E	-6	-3	-3	-3	-3	-3	-3	0	-19
4513E	-5	-5	-2	-2	0	-2	-2	-2	-19
4538E	-5	-5	-3	-3	-3	-3	-3	0	-19
4563E	-5	-5	-2	0	0	-2	-2	0	-13
4588E	-20	-16	-12	-8	-8	-8	-8	-4	-7
4613E	-15	-13	-10	-5	-3	-3	-3	-3	-1
4638E	-17	-15	-11	-9	-4	-4	-4	0	-1
4663E	18	9	2	0	0	-2	-2	2	-5
4688E	69	44	20	9	2	-4	-4	-4	-6
4713E	88	60	31	19	8	0	-2	2	-6

STATION	V1	V2	V3	V4	V5	V6	V7	V8	ELV
4738E	20	-19	-34	-31	-17	-6	-3	-1	-10
4763E	-43	-62	-60	-45	-21	-12	-5	-2	-6
4788E	-74	-35	0	6	6	-2	-2	-2	-7
4813E	-121	-65	-24	-6	-3	-3	-3	-2	-8
4838E	-143	-82	-35	-16	-10	-10	-8	-4	-10
4863E	-147	-91	-47	-27	-15	-11	-9	-4	-10
4888E	-161	-93	-53	-34	-24	-15	-12	-3	-12
4913E	-167	-100	-61	-41	-28	-21	-13	-7	-12
4938E	-137	-97	-63	-40	-27	-19	-13	-5	-10
4963E	-150	-109	-70	-47	-30	-20	-14	-8	-9
4988E	-139	-102	-67	-44	-30	-26	-15	-9	-7
5013E	-146	-104	-69	-42	-23	-17	-10	-4	-6
5038E	-26	-57	-57	-40	-26	-16	-10	-5	-5
5063E	111	46	0	-14	-15	-11	-8	-4	-3
5088E	172	117	63	30	8	-3	-6	-6	2
5113E	-30	-17	2	6	6	0	-4	-4	8
5138E	-65	-91	-73	-45	-19	-8	-4	-3	12
5163E	18	-22	-39	-39	-27	-15	-4	-1	14
5188E	1	-32	-47	-48	-38	-22	-9	-4	15
5213E	-95	-79	-68	-60	-48	-30	-11	-3	18
5238E	-93	-77	-68	-60	-48	-31	-13	-4	18
5263E	-105	-92	-83	-75	-60	-40	-17	-3	17
5288E	-83	-76	-67	-61	-54	-39	-20	-7	15
5313E	-89	-85	-77	-70	-64	-49	-28	-9	11
5338E	-79	-78	-73	-67	-59	-48	-24	-10	7
5363E	-73	-70	-67	-57	-50	-43	-27	-17	3
5388E	-54	-49	-40	-34	-28	-23	-14	-8	-2
5413E	-75	-52	-38	-31	-25	-20	-12	-6	-6
5438E	-38	-31	-23	-16	-13	-11	-8	-5	-5
5463E	-103	-72	-49	-36	-21	-18	-13	-8	-1
5488E	-70	-49	-33	-25	-14	-12	-7	-5	2
5513E	-69	-46	-31	-22	-13	-10	-7	-4	0
5538E	-58	-39	-24	-16	-11	-8	-8	-5	-2
5563E	-65	-43	-27	-14	-10	-10	-8	-2	-5
5588E	-59	-36	-20	-11	-9	-6	-4	-1	-6
5613E	-57	-38	-22	-14	-8	-5	-5	0	-8
5638E	-44	-29	-19	-10	-8	-8	-6	-4	-10
5663E	-35	-29	-18	-10	-6	-6	-6	-4	-5
5688E	-17	-13	-7	-3	-2	-2	0	2	0
5713E	-30	-24	-14	-13	-11	-10	-8	-5	6
5738E	-56	-36	-23	-13	-5	-5	-5	0	14
5763E	-44	-34	-20	-10	-6	-4	-2	2	18
5788E	-23	-19	-13	-8	-4	-2	-2	2	21
5813E	-28	-17	-12	-9	-3	-3	-2	-2	25
5838E	-20	-15	-8	-3	0	3	3	3	25
5863E	-19	-12	-9	-5	-2	-2	-1	0	24
5888E	-21	-12	-10	-5	-2	-5	0	0	22
5913E	-18	-11	-8	-5	-3	-3	-1	-1	18
5938E	-18	-12	-7	-4	-3	-3	-1	0	20
5963E	-19	-11	-7	-5	-4	-4	-2	0	21
5988E	-21	-13	-8	-5	-3	-3	-2	0	19
6013E	-24	-13	-9	-6	-4	-3	-3	-1	17
6038E	-29	-18	-9	-4	-3	-4	-3	-1	17
6063E	-28	-17	-11	-7	-4	-4	-4	-2	17
6088E	-31	-17	-9	-5	-3	-3	-2	2	16
6113E	-30	-17	-11	-6	-2	-2	-2	2	13
6138E	-34	-19	-9	-4	-1	-1	-1	1	12
6163E	-36	-20	-9	-4	-1	-1	0	0	12
6188E	-39	-19	-11	-6	-5	-4	-2	0	11

STATION	V1	V2	V3	V4	V5	V6	V7	V8	ELV
6213E	-44	-23	-11	-4	-2	-2	0	1	9
6238E	-51	-29	-16	-5	-3	-3	-1	0	7
6263E	-42	-26	-15	-8	-2	-4	0	4	5
6288E	-46	-26	-13	-6	-1	-1	-1	-1	2
6313E	-55	-30	-16	-5	-3	-3	-1	1	0
6338E	-69	-35	-18	-6	-3	-3	-1	3	-4
6363E	-57	-27	-12	-5	-1	-2	-1	1	-5
6388E	-57	-31	-14	-8	-5	-3	-3	-2	-5
6413E	-58	-33	-16	-7	-4	-4	-2	2	-4
6438E	-71	-42	-19	-10	-6	-4	-6	-4	-4
6463E	-77	-40	-19	-8	-6	-5	-3	-3	-4
6488E	-51	-28	-14	-6	-5	-5	-5	-3	-3
6513E	-63	-34	-15	-7	-2	-2	2	5	0
6538E	-92	-47	-20	-10	-4	-4	-4	-4	3
6563E	-100	-48	-20	-8	-3	-3	-2	0	4
6588E	-124	-55	-19	-8	-3	-3	0	3	3
6613E	-108	-54	-20	-8	-3	-3	-3	-2	0
6638E	-61	-40	-16	-9	-4	-4	-4	-2	0
6663E	-62	-38	-18	-10	-7	-7	-5	-3	7
6688E	-84	-50	-21	-11	-5	-5	-3	0	13
6713E	-76	-43	-19	-7	-2	-2	-2	2	14
6738E	-70	-38	-17	-8	-3	-3	-3	0	15
6763E	-53	-33	-16	-7	-4	-4	-2	0	15
6788E	-53	-31	-16	-6	-2	-2	-1	-1	17
6813E	-55	-31	-15	-6	-3	-3	-2	2	20
6838E	-63	-39	-16	-8	-4	-4	-2	2	22
6863E	-57	-38	-19	-9	-6	-6	-2	0	24

Line 11500N, Separation 75 metres, Survey date 22/7/82

4838E	-73	-82	-82	-71	-55	-35	-16	-7	0
4863E	-16	-53	-69	-64	-51	-33	-20	-7	0
4888E	-50	-63	-65	-56	-44	-31	-19	-6	0
4913E	-146	-126	-97	-83	-69	-54	-40	-20	0
4938E	-129	-109	-86	-71	-60	-51	-40	-23	0
4963E	-92	-91	-79	-72	-67	-60	-48	-32	0
4988E	-45	-48	-52	-62	-69	-69	-55	-34	0
5013E	-25	-29	-36	-50	-50	-50	-29	-14	0
5038E	-62	-43	-43	-45	-45	-41	-24	-12	0
5063E	-67	-63	-70	-70	-65	-44	-21	-7	0
5088E	-95	-105	-104	-87	-67	-39	-17	-4	0
5113E	-153	-156	-132	-97	-66	-37	-13	-3	0
5138E	-76	-132	-132	-110	-76	-43	-19	-4	0
5163E	3	-66	-95	-92	-71	-45	-21	-5	0
5188E	-33	-58	-67	-67	-61	-42	-18	-6	0
5213E	-135	-112	-88	-67	-49	-33	-16	-5	0
5238E	-110	-100	-79	-62	-47	-33	-16	-7	0
5263E	-69	-69	-58	-45	-36	-25	-13	-4	0
5288E	-49	-47	-41	-33	-27	-22	-10	-4	0
5313E	-75	-60	-50	-42	-33	-29	-19	-8	0
5338E	-113	-80	-57	-47	-33	-27	-20	-13	0
5363E	-97	-63	-47	-33	-27	-27	-13	-7	0
5388E	-94	-56	-44	-28	-22	-22	-22	-6	0
5413E	-50	-32	-21	-18	-14	-14	-11	-7	0
5438E	-83	-52	-31	-21	-17	-17	-10	0	0
5463E	-69	-46	-29	-19	-15	-10	-8	-6	0
5488E	-62	-40	-27	-13	-9	-9	-4	0	0
5513E	-61	-37	-24	-11	-5	-5	-5	-3	0



STATION	V1	V2	V3	V4	V5	V6	V7	V8	ELV
5538E	-92	-62	-38	-24	-14	-14	-8	-5	0
5563E	-96	-68	-48	-28	-16	-16	-12	-4	0

Line 11400N, Separation 75 metres, Survey date 15/7/82

4538E	-5	-5	-5	-2	0	-2	-2	0	0
4563E	-9	-6	-6	-3	0	0	0	0	3
4588E	-8	-6	-4	-2	0	-2	-2	0	6
4613E	-12	-9	-6	-1	0	1	0	0	10
4638E	-17	-12	-10	-5	-2	-2	0	0	11
4663E	-38	-29	-21	-13	-8	-8	-8	-4	7
4688E	-8	-8	-8	-8	-6	-6	-6	0	-1
4713E	60	40	24	16	12	4	4	0	-5
4738E	206	182	118	94	53	24	6	12	-5
4763E	50	36	7	-14	-14	-14	-14	0	-1
4788E	-146	-163	-163	-138	-96	-54	-25	-8	6
4813E	-185	-211	-207	-167	-111	-63	-22	-7	15
4838E	-150	-142	-110	-77	-48	-29	-13	-6	21
4863E	-131	-126	-84	-56	-36	-24	-15	-7	25
4888E	-122	-98	-66	-46	-31	-21	-13	-6	26
4913E	-93	-79	-57	-40	-31	-21	-13	-9	26
4938E	-104	-83	-59	-43	-31	-23	-16	-9	26
4963E	-91	-83	-67	-50	-37	-28	-19	-9	25
4988E	-114	-111	-87	-64	-49	-34	-23	-13	23
5013E	-116	-113	-92	-69	-49	-34	-23	-13	20
5038E	-128	-113	-89	-64	-43	-32	-19	-11	15
5063E	-171	-151	-117	-83	-54	-37	-20	-9	17
5088E	-171	-162	-125	-89	-64	-42	-25	-11	19
5113E	-47	-75	-81	-72	-55	-38	-22	-11	21
5138E	-46	-51	-57	-54	-43	-38	-19	-11	23
5163E	-141	-104	-73	-51	-37	-29	-16	-8	28
5188E	-142	-110	-77	-50	-31	-21	-10	-2	32
5213E	-97	-89	-68	-53	-32	-24	-16	-5	35
5238E	-76	-64	-55	-38	-24	-19	-14	-5	39
5263E	-66	-45	-34	-26	-17	-13	-8	-2	43
5288E	-60	-38	-25	-20	-15	-9	-7	0	46
5313E	-66	-42	-29	-23	-16	-15	-10	-5	46
5338E	-91	-66	-43	-32	-18	-16	-14	-5	45
5363E	-60	-40	-26	-16	-15	-11	-10	-5	38
5388E	-43	-31	-20	-12	-8	-8	-6	-2	34
5413E	-58	-38	-29	-17	-17	-17	-13	-4	34
5438E	-66	-43	-22	-13	-9	-7	-4	-1	38
5463E	-59	-35	-20	-12	-7	-5	-4	0	38
5488E	-66	-45	-28	-15	-11	-9	-8	-2	37
5513E	-72	-47	-30	-19	-14	-12	-5	-2	33
5538E	-116	-79	-42	-26	-16	-11	-11	0	26
5563E	-96	-64	-44	-24	-12	-12	-12	-4	18
5588E	-74	-42	-29	-18	-3	-3	-3	3	11
5613E	-57	-39	-24	-13	-11	-9	-7	-4	8
5638E	-67	-45	-24	-15	-9	-3	-3	6	7
5663E	-42	-39	-26	-16	-10	-10	-3	-6	12
5688E	0	-8	-8	-4	-4	-4	-4	0	9
5713E	12	0	-4	-2	-2	-2	-2	4	10
5738E	0	-10	-8	-6	-4	-4	-2	-4	10
5763E	-83	-63	-33	-17	-4	0	0	4	11
5788E	-100	-72	-40	-20	0	0	-4	0	21
5813E	-53	-41	-26	-18	-6	-9	-6	-9	29
5838E	-28	-23	-15	-10	-7	-5	-3	-2	37

STATION	V1	V2	V3	V4	V5	V6	V7	V8	ELV
5863E	-21	-17	-11	-8	-4	-4	-1	1	39
5888E	-26	-19	-14	-9	-5	-7	-5	-2	39
5913E	-24	-18	-8	-8	-4	-4	-4	-2	39
5938E	-19	-13	-9	-7	-4	-4	-3	0	39
5963E	-20	-15	-9	-7	-5	-4	-4	-2	41
5988E	-20	-11	-8	-7	-5	-3	-2	0	41
6013E	-24	-14	-10	-6	-6	-6	-2	-2	41
6038E	-20	-13	-9	-5	-4	-4	-2	0	39
6063E	-21	-11	-9	-5	-4	-4	-4	2	39
6088E	-27	-13	-11	-4	-4	-4	-2	2	37
6113E	-24	-14	-10	-6	-4	-4	-4	0	34
6138E	-25	-12	-9	-4	-2	-2	-2	2	33
6163E	-29	-17	-10	-7	-5	-5	-2	0	30
6188E	-29	-16	-9	-4	-2	-4	-2	2	27
6213E	-27	-14	-8	-4	-4	-4	-4	0	24
6238E	-30	-18	-9	-6	-3	-3	-3	3	21
6263E	-31	-19	-10	-4	-4	-4	-2	0	20
6288E	-39	-19	-16	-10	-3	-6	-6	0	17
6313E	-42	-24	-15	-9	-9	-9	-6	-3	15
6338E	-45	-26	-14	-7	-2	-2	-5	5	12
6363E	-47	-31	-18	-9	-7	-7	-4	0	8
6388E	-50	-31	-15	-7	-4	-2	-2	2	4
6413E	-48	-29	-17	-10	-6	-6	-6	-4	0
6438E	-56	-34	-16	-10	-4	-4	-2	0	-3
6463E	-64	-39	-17	-8	-6	-6	-3	3	-4
6488E	-62	-33	-16	-9	-4	-4	0	4	-5
6513E	-73	-34	-17	-10	-5	-5	-2	0	-6
6538E	-84	-45	-21	-11	-5	-5	-3	0	-7
6563E	-74	-46	-26	-10	-5	-5	-5	0	-10
6588E	-78	-43	-20	-10	-5	-5	-5	0	-12
6613E	-90	-51	-23	-10	-5	-5	-5	0	-12
6638E	-78	-42	-18	-4	-4	-4	-2	2	-12
6663E	-57	-34	-16	-7	-2	-2	-2	2	-12
6688E	-45	-31	-21	-7	-7	-7	-7	3	-8
6713E	-38	-28	-19	-6	-3	-3	-3	0	-2
6738E	-56	-38	-19	0	6	6	6	6	6
6763E	-72	-44	-33	-17	-11	-11	-11	0	14
6788E	-62	-46	-31	-15	-8	-8	-8	0	22
6813E	-29	-21	-14	-10	-7	-7	-5	2	30
6838E	-23	-20	-14	-9	-6	-6	-6	-3	38
6863E	-25	-19	-11	-3	-3	-3	0	0	46

Line 11200N, Separation 75 metres, Survey date 9/7/82

4463E	-9	-5	-5	0	0	-5	-5	0	-38
4488E	-4	-9	-9	0	0	-9	-9	0	-32
4513E	-4	-4	-7	-7	0	-4	-4	-4	-27
4538E	-10	-5	-5	0	0	0	-10	0	-25
4563E	-21	-14	-10	-7	-3	-3	-3	0	-26
4588E	-55	-42	-21	-12	-3	-6	-6	0	-30
4613E	90	55	21	7	7	-3	-3	3	-34
4638E	114	70	30	9	5	-2	-2	-2	-39
4663E	174	128	67	35	16	2	-2	2	-42
4688E	-36	-24	-9	-3	3	-3	-3	0	-44
4713E	-177	-141	-85	-38	-15	-8	0	3	-38
4738E	-129	-116	-77	-48	-23	-13	-6	0	-32
4763E	-169	-151	-106	-66	-40	-17	-9	-3	-29
4788E	24	-38	-59	-59	-38	-24	-15	-6	-29

STATION	V1	V2	V3	V4	V5	V6	V7	V8	ELV
4813E	-7	-40	-45	-40	-25	-16	-7	-1	-31
4838E	-57	-79	-76	-60	-43	-24	-14	-5	-35
4863E	111	71	16	-11	-20	-31	-16	-9	-30
4888E	190	157	103	53	13	-13	-17	-7	-23
4913E	106	100	74	46	14	-9	-14	-6	-15
4938E	33	2	-15	-25	-25	-25	-17	-6	-8
4963E	58	8	-23	-33	-33	-29	-17	-8	-3
4988E	-11	-37	-50	-58	-53	-45	-26	-11	2
5013E	-81	-71	-62	-55	-50	-40	-26	-10	6
5038E	-47	-43	-37	-30	-27	-27	-13	-3	10
5063E	-21	-19	-16	-14	-14	-14	-12	-5	12
5088E	-45	-41	-34	-31	-26	-24	-16	-12	12
5113E	-26	-26	-25	-16	-14	-12	-9	-5	12
5138E	-33	-30	-22	-15	-13	-11	-7	-2	12
5163E	-33	-27	-20	-15	-12	-12	-8	-3	14
5188E	-34	-28	-18	-14	-10	-10	-8	-2	18
5213E	-45	-27	-17	-12	-10	-8	-5	-2	21
5238E	-41	-32	-20	-14	-9	-9	-5	0	25
5263E	-33	-23	-13	-10	-10	-12	-12	-7	28
5288E	-32	-24	-14	-10	-6	-6	-6	2	30
5313E	-32	-22	-11	-8	-5	-5	-2	-2	29
5338E	-40	-26	-16	-9	-7	-5	-5	0	27
5363E	-45	-29	-16	-11	-5	-4	-4	-4	27
5388E	-45	-27	-18	-9	-5	-5	-4	0	27
5413E	-44	-30	-20	-11	-6	-6	-5	-3	26
5438E	-39	-23	-14	-9	-4	-4	-1	3	28
5463E	-36	-26	-16	-9	-6	-6	-4	-1	26
5488E	-35	-26	-17	-12	-8	-8	-5	-3	25
5513E	-37	-27	-18	-9	-4	-4	-1	1	25
5538E	-48	-34	-22	-13	-8	-8	-6	-2	25
5563E	-54	-37	-21	-12	-7	-6	-1	1	25
5588E	-65	-47	-25	-13	-8	-7	-3	2	24
5613E	-62	-45	-27	-16	-6	-5	-3	0	24
5638E	-73	-53	-31	-18	-9	-7	-4	2	24
5663E	-75	-56	-33	-17	-10	-8	-4	2	23
5688E	-64	-47	-28	-15	-9	-6	-4	2	22
5713E	-63	-45	-27	-14	-7	-5	-3	-1	19
5738E	-54	-43	-27	-15	-7	-6	-1	3	19
5763E	-54	-43	-29	-17	-9	-6	-3	0	17
5788E	-46	-39	-29	-19	-12	-7	-4	-1	15
5813E	-42	-35	-25	-18	-10	-8	-3	2	15
5838E	-51	-39	-27	-17	-11	-7	-3	0	17
5863E	-57	-47	-31	-24	-16	-12	-6	0	17
5888E	-48	-45	-33	-22	-14	-10	-7	0	14
5913E	-47	-38	-28	-18	-11	-8	-4	1	12
5938E	-50	-33	-23	-15	-12	-10	-6	-2	11
5963E	-45	-30	-21	-13	-9	-7	-4	0	10
5988E	-41	-27	-18	-10	-8	-8	-6	-4	9
6013E	-45	-26	-18	-12	-9	-8	-5	0	8
6038E	-42	-28	-16	-12	-8	-6	-4	0	7
6063E	-41	-26	-17	-12	-9	-7	-5	-3	6
6088E	-34	-21	-13	-10	-6	-6	-4	0	5
6113E	-33	-22	-13	-9	-7	-7	-4	-2	3
6138E	-33	-23	-14	-9	-5	-5	-4	4	-2
6163E	-31	-22	-12	-8	-5	-5	-3	0	-4
6188E	-36	-24	-17	-10	-7	-7	-5	-2	-6
6213E	-33	-25	-15	-8	-5	-5	-5	-2	-9
6238E	-38	-28	-18	-12	-8	-8	-6	-6	-12
6263E	-37	-26	-18	-11	-8	-8	-5	-3	-16



STATION	V1	V2	V3	V4	V5	V6	V7	V8	ELV
6288E	-29	-24	-14	-9	-5	-3	-3	-2	-19
6313E	-29	-21	-14	-9	-5	-5	-3	-2	-22
6338E	-27	-22	-15	-9	-5	-5	-5	-4	-24
6363E	-27	-20	-11	-8	-5	-5	-3	0	-25
6388E	-33	-23	-16	-9	-5	-5	-2	-2	-27
6413E	-30	-20	-14	-9	-5	-2	-5	-2	-30
6438E	-35	-26	-16	-9	-7	-5	-5	-2	-32
6463E	-30	-20	-12	-8	-4	-4	-2	-2	-34
6488E	-40	-20	-13	-8	-3	-3	-3	0	-35
6513E	-33	-22	-13	-8	-5	-3	-3	0	-37
6538E	-44	-28	-15	-9	-6	-4	-4	-2	-41
6563E	-43	-26	-15	-9	-8	-4	-4	-2	-42
6588E	-41	-27	-16	-8	-6	-4	-2	-2	-42
6613E	-44	-31	-20	-11	-4	-4	-2	-2	-46
6638E	-52	-31	-19	-13	-6	-4	-2	-2	-49
6663E	-56	-36	-20	-11	-4	-2	-2	0	-49
6688E	-56	-41	-25	-11	-7	-5	-5	-3	-48
6713E	-80	-58	-35	-15	-5	-3	0	3	-45
6738E	-48	-42	-25	-13	-6	-5	-3	-2	-40
6763E	-9	-17	-11	-6	-2	-2	0	0	-35
6788E	45	14	-3	-3	-1	-1	-1	0	-30
6813E	40	11	-3	-6	-6	-6	-6	-3	-20
6838E	21	8	0	-4	-4	-8	-8	-4	-10
6863E	-33	-22	-14	-8	-6	-6	-6	-6	0

Line 1100N, Separation 75 metres, Survey date 9/7/82

4563E	-11	-6	-6	-4	-4	-4	-4	0	29
4588E	-16	-13	-11	-5	-3	-3	-3	0	28
4613E	-30	-26	-15	-9	-2	-2	-2	0	29
4638E	22	2	-5	-4	-5	-4	0	2	25
4663E	177	113	42	6	-3	-3	-3	0	21
4688E	127	100	53	20	3	-3	0	-7	17
4713E	-27	-32	-27	-9	0	-9	-9	0	15
4738E	-60	-86	-71	-46	-17	-11	-6	3	14
4763E	6	-26	-37	-29	-20	-17	-9	0	16
4788E	17	0	-9	-11	-14	-20	-14	-3	24
4813E	-210	-172	-121	-86	-59	-45	-21	-10	30
4838E	67	-13	-63	-63	-58	-40	-17	-6	36
4863E	165	63	-25	-50	-50	-38	-20	-5	41
4888E	89	32	-9	-23	-30	-26	-13	-2	45
4913E	-53	-53	-53	-40	-32	-23	-15	-6	50
4938E	-100	-82	-60	-40	-30	-24	-16	-4	52
4963E	-56	-49	-33	-23	-19	-16	-9	-4	54
4988E	-59	-59	-48	-34	-25	-20	-16	-9	55
5013E	-65	-65	-50	-35	-25	-20	-20	-10	58
5038E	-54	-46	-46	-23	-15	-15	-31	-8	62
5063E	-31	-31	-31	-19	-19	-19	-6	6	67
5088E	-30	-21	-15	-15	-12	-12	-9	-3	77
5113E	-28	-18	-12	-8	-6	-6	-4	0	87
5138E	-29	-24	-14	-7	0	0	0	-2	97
5163E	-31	-26	-11	-6	3	3	0	0	105
5188E	-20	-13	-11	-9	-9	-9	-7	-7	113
5213E	-17	-11	-9	-6	-4	-4	-4	-2	120
5238E	-20	-12	-8	-8	-4	-4	-4	-4	125
5263E	-27	-17	-13	-7	-3	-7	-7	0	128
5288E	-24	-17	-11	-7	-4	-4	-4	0	130
5313E	-21	-16	-10	-5	-2	-2	-2	2	130

STATION	V1	V2	V3	V4	V5	V6	V7	V8	ELV
5338E	-25	-17	-6	-4	4	2	0	0	127
5363E	-22	-17	-12	-8	-3	-3	-2	0	125
5388E	-19	-16	-11	-6	-3	-3	-2	2	124
5413E	-25	-17	-13	-8	-4	-4	-2	-2	126
5438E	-22	-19	-16	-8	-3	-3	-3	-3	128
5463E	-21	-19	-15	-8	-6	-6	-6	-4	130
5488E	-23	-17	-13	-6	-4	-2	0	2	130
5513E	-17	-15	-11	-9	-6	-4	-2	0	132
5538E	-23	-19	-16	-12	-7	-5	-5	0	132
5563E	-60	-53	-40	-27	-20	-20	-20	-7	127
5588E	-52	-43	-33	-24	-14	-10	-10	-5	121
5613E	-48	-39	-30	-22	-13	-13	-4	4	116
5638E	-37	-34	-26	-20	-14	-11	-6	-3	108
5663E	-43	-38	-28	-20	-13	-10	-5	3	100
5688E	-58	-48	-39	-26	-19	-16	-10	-6	93
5713E	-48	-38	-29	-21	-14	-10	-5	-2	85
5738E	-83	-71	-54	-25	-4	8	8	4	79
5763E	-68	-53	-38	-24	-18	-12	-6	0	72
5788E	-83	-69	-51	-40	-29	-23	-14	0	66
5813E	-85	-63	-44	-26	-19	-15	-4	4	60
5838E	-84	-66	-45	-31	-20	-13	-8	-5	55
5863E	-93	-69	-47	-33	-21	-14	-10	-3	47
5888E	-68	-68	-62	-44	-26	-21	-12	-3	45
5913E	-112	-95	-66	-44	-29	-20	-15	-7	37
5938E	-78	-78	-63	-41	-26	-13	-7	2	33
5963E	-92	-89	-68	-45	-26	-13	-6	0	29
5988E	-109	-96	-74	-49	-28	-18	-9	-2	27
6013E	-110	-98	-76	-50	-29	-16	-7	0	24
6038E	-87	-75	-53	-37	-22	-13	-8	-5	23
6063E	-87	-76	-56	-42	-24	-18	-11	-7	22
6088E	-68	-62	-44	-30	-18	-12	-8	0	21
6113E	-71	-65	-45	-31	-18	-14	-10	-4	19
6138E	-60	-50	-35	-21	-13	-10	-6	0	18
6163E	-55	-45	-31	-18	-11	-8	-5	0	13
6188E	-65	-50	-35	-23	-13	-10	-8	-3	9
6213E	-60	-44	-29	-17	-12	-10	-6	0	6
6238E	-66	-49	-34	-21	-15	-11	-8	-4	1
6263E	-57	-43	-28	-17	-15	-11	-9	-6	-4
6288E	-60	-47	-33	-22	-16	-13	-9	-4	-9
6313E	-56	-44	-32	-21	-15	-12	-12	-3	-14
6338E	-47	-37	-26	-21	-14	-14	-12	-7	-17
6363E	-56	-38	-24	-16	-11	-9	-4	0	-19
6388E	-50	-35	-25	-18	-13	-8	-8	0	-21
6413E	-57	-40	-30	-17	-10	-10	-10	-3	-22
6438E	-49	-34	-26	-14	-9	-9	-6	0	-24
6463E	-44	-29	-22	-13	-7	-7	-4	-2	-27
6488E	-40	-27	-18	-13	-9	-7	-5	-2	-28
6513E	-50	-33	-20	-13	-9	-7	-4	0	-29
6538E	-47	-28	-19	-14	-7	-5	-5	0	-30
6563E	-58	-38	-25	-15	-10	-8	-8	-3	-31
6588E	-47	-30	-19	-13	-8	-8	-6	-4	-33
6613E	-54	-36	-25	-14	-11	-7	-4	0	-34
6638E	-51	-33	-18	-11	-7	-7	-4	0	-36
6663E	-63	-37	-23	-14	-11	-9	-9	-3	-36
6688E	-58	-30	-18	-12	-6	-3	-3	-3	-36
6713E	-54	-35	-19	-11	-5	-3	-3	-3	-36
6738E	-48	-30	-21	-12	-9	-3	-3	-3	-34
6763E	-58	-38	-20	-13	-5	-5	-3	-3	-28
6788E	-63	-41	-22	-13	-9	-3	-3	0	-22

STATION	V1	V2	V3	V4	V5	V6	V7	V8	ELV
6813E	0	-12	-12	-7	-5	-2	-2	-2	-15
6838E	43	8	-3	-5	-3	-3	-3	-3	-8
6863E	48	13	-6	-6	-3	-3	-3	-3	0
6888E	-87	-47	-27	-7	0	20	7	0	0
6913E	-63	-44	-19	-9	-6	0	0	0	0
6938E	-38	-27	-14	-5	-3	0	0	-3	0
6963E	-44	-31	-19	-9	-3	0	0	0	0
6988E	-31	-20	-13	-7	-2	0	0	-2	0
7013E	-36	-27	-18	-9	-9	0	-5	-5	0
7038E	-30	-21	-12	-9	-6	0	0	0	0

Line 10900N, Separation 75 metres, Survey date 5/8/82

4513E	1	-1	-1	-1	-1	-1	0	0	-33
4538E	-6	-4	-4	-2	-2	-2	-2	-2	-34
4563E	-4	-4	-4	-2	0	0	-2	0	-33
4588E	-8	-8	-4	-4	0	4	0	0	-33
4613E	-12	-12	-9	-6	-3	0	0	0	-33
4638E	-23	-17	-13	-7	-3	-3	-3	-3	-37
4663E	-21	-16	-14	-9	-7	-5	-5	-2	-42
4688E	-8	-8	-8	-5	-3	-3	-3	0	-46
4713E	-2	-2	-2	-3	-3	-3	-2	0	-47
4738E	-26	-22	-12	-7	-5	-2	-2	0	-51
4763E	-47	-44	-31	-18	-9	-2	-2	-2	-55
4788E	-137	-117	-76	-43	-22	-11	-4	-4	-49
4813E	-33	-52	-54	-46	-29	-15	-8	-6	-42
4838E	150	93	33	-5	-14	-14	-7	-5	-36
4863E	166	132	74	26	0	-5	-3	-3	-30
4888E	9	9	3	-6	-12	-9	-9	-6	-24
4913E	-65	-62	-50	-38	-24	-15	-9	-6	-16
4938E	-42	-48	-45	-32	-23	-16	-10	-6	-8
4963E	-12	-24	-24	-21	-15	-9	-6	-6	0

Line 10800N, Separation 75 metres, Survey date 11/7/82

4588E	-13	-13	-13	0	0	-6	0	0	73
4613E	-20	-13	-13	-13	-7	-7	-7	-7	76
4638E	-9	-7	-5	-2	0	-2	-5	-9	78
4663E	-11	-7	-7	-4	-2	-2	-2	0	77
4688E	-16	-8	-5	-5	0	-3	-3	0	72
4713E	-32	-21	-16	-11	-8	-8	-5	0	65
4738E	-40	-34	-26	-20	-11	-11	-9	-3	59
4763E	-26	-33	-30	-21	-16	-12	-7	-2	54
4788E	288	250	156	78	28	3	3	0	50
4813E	208	200	149	97	54	22	8	-3	50
4838E	242	227	182	130	85	45	15	9	54
4863E	63	67	60	47	17	-3	-3	3	64
4888E	-22	-43	-65	-65	-65	-57	-26	-9	74
4913E	-34	-54	-66	-63	-51	-37	-17	-6	84
4938E	-29	-40	-43	-43	-37	-26	-17	-6	94
4963E	-20	-20	-22	-22	-20	-18	-13	-4	104
4988E	-33	-28	-23	-21	-16	-14	-12	-2	114
5013E	-31	-25	-20	-15	-14	-12	-10	-5	122
5038E	-38	-23	-18	-10	-8	-3	0	5	127
5063E	-28	-23	-15	-11	-8	-8	-4	0	132
5088E	-16	-12	-8	-5	-4	-4	-3	0	136
5113E	-16	-9	-9	-7	-5	-5	-5	-2	145

STATION	V1	V2	V3	V4	V5	V6	V7	V8	ELV
5138E	-7	-3	-3	-3	-3	-3	-3	3	155
5163E	-15	-10	-6	-4	-2	-4	-4	4	165
5188E	-23	-13	-10	-7	-3	-3	-3	3	175
5213E	-22	-16	-9	-7	-2	-4	-4	-2	185
5238E	-18	-13	-11	-5	-3	-5	-3	0	195
5263E	-18	-14	-9	-7	-5	-2	-2	5	205
5288E	-24	-19	-14	-5	-3	-3	0	-3	215
5313E	-19	-17	-13	-8	-6	-6	-4	0	220
5338E	-14	-11	-10	-5	-2	-2	-2	0	224
5363E	-16	-13	-11	-5	-3	-3	-2	0	222
5388E	-12	-11	-8	-5	-3	-3	-1	0	222
5413E	-13	-10	-9	-6	-4	-3	-1	0	220
5438E	-15	-14	-12	-6	-5	-3	-2	2	215
5463E	-15	-13	-11	-7	-6	-6	-4	-2	210
5488E	-21	-17	-15	-13	-9	-6	-6	-2	204
5513E	-21	-18	-16	-12	-7	-5	-4	0	196
5538E	-30	-27	-20	-16	-11	-9	-7	-5	186
5563E	-39	-37	-24	-18	-11	-11	-5	3	176
5588E	-42	-37	-32	-21	-16	-11	-3	5	166
5613E	-40	-34	-28	-18	-14	-12	-8	-2	156
5638E	-61	-53	-37	-26	-18	-13	-11	-3	146
5663E	-71	-61	-45	-34	-26	-21	-11	-3	136
5688E	-88	-71	-53	-38	-21	-18	-12	-6	126
5713E	-74	-62	-38	-26	-18	-13	-8	0	116
5738E	-73	-55	-38	-25	-18	-15	-8	0	108
5763E	-78	-58	-36	-25	-13	-9	-4	2	102
5788E	-86	-64	-43	-28	-19	-10	-7	-3	96
5813E	-73	-56	-36	-22	-13	-9	-4	2	89
5838E	-115	-94	-65	-44	-24	-12	-6	-3	79
5863E	-94	-75	-53	-36	-23	-15	-11	-4	69
5888E	-119	-93	-67	-47	-28	-19	-12	-5	63
5913E	-136	-104	-71	-44	-29	-18	-9	2	57
5938E	-145	-125	-85	-53	-35	-23	-13	-5	47
5963E	-140	-112	-74	-40	-28	-19	-14	-5	39
5988E	-112	-98	-67	-40	-25	-15	-8	-3	33
6013E	-108	-87	-58	-36	-20	-14	-8	-5	27
6038E	-88	-73	-50	-31	-20	-18	-13	-8	-25
6063E	-92	-75	-53	-34	-23	-13	-8	-2	22
6088E	-90	-74	-50	-32	-20	-16	-10	-6	20
6113E	-81	-66	-44	-28	-18	-10	-7	-3	18
6138E	-83	-66	-46	-29	-17	-12	-10	-7	16
6163E	-76	-58	-38	-26	-14	-10	-8	-4	11
6188E	-71	-55	-34	-21	-16	-13	-11	-8	6
6213E	-92	-69	-41	-24	-16	-10	-8	-2	0
6238E	-77	-60	-40	-23	-17	-10	0	7	-6
6263E	-81	-61	-39	-26	-16	-10	-10	-3	-11
6288E	-76	-56	-36	-22	-16	-11	-7	-4	-15
6313E	-81	-65	-41	-24	-16	-14	-8	0	-18
6338E	-85	-62	-41	-24	-15	-12	-9	-6	-21
6363E	-80	-58	-36	-24	-11	-7	-2	4	-23
6388E	-73	-50	-33	-23	-13	-10	-10	-3	-25
6413E	-68	-50	-32	-22	-12	-8	-6	-4	-27
6438E	-75	-55	-36	-23	-11	-8	-4	0	-29
6463E	-82	-64	-45	-32	-16	-11	-7	-5	-31
6488E	-71	-49	-33	-20	-14	-8	-8	-4	-34
6513E	-65	-47	-30	-20	-12	-8	-5	-4	-36
6538E	-73	-54	-38	-22	-11	-8	-5	0	-38
6563E	-63	-45	-30	-20	-13	-5	-5	0	-39
6588E	-53	-37	-25	-13	-8	-5	-3	-2	-40

STATION	V1	V2	V3	V4	V5	V6	V7	V8	ELV
6613E	-67	-47	-31	-18	-11	-4	0	7	-41
6638E	-65	-44	-28	-19	-9	-5	-5	-5	-41
6663E	-68	-45	-27	-18	-11	-9	-9	-7	-41
6688E	-58	-38	-25	-15	-5	-3	0	3	-39
6713E	-38	-29	-18	-11	-7	-4	-4	0	-37
6738E	-45	-30	-18	-14	-9	-7	-7	-5	-32
6763E	-64	-46	-25	-14	-11	-7	-7	-7	-25
6788E	-58	-37	-18	-11	-5	-3	0	0	-19
6813E	-43	-26	-14	-7	-3	-2	-2	0	-13
6838E	-37	-26	-17	-9	-6	-3	-3	0	-6
6863E	6	-9	-11	-9	-6	-3	-3	-3	0
6888E	32	7	-7	-7	-4	-4	-4	-4	0
6913E	-2	-5	-7	-5	-5	-2	-2	-2	0
6938E	-37	-21	-13	-8	-3	-3	0	0	0
6963E	-39	-27	-14	-8	-4	-2	0	0	0
6988E	-35	-28	-15	-11	-4	-2	-2	-2	0
7013E	-28	-23	-12	-9	-5	-4	-2	-2	0
7038E	-19	-15	-11	-6	-2	-2	0	0	0
7063E	-15	-12	-8	-5	-3	-2	-2	0	0

Line 10600N, Separation 75 metres, Survey date 10/7/82

4538E	-3	-3	-3	-3	-3	-3	-3	-9	63
4563E	-3	-3	-3	-3	0	-3	0	0	70
4588E	-2	-2	-2	-2	0	-2	0	2	78
4613E	-6	-3	-3	-3	0	-3	-3	3	85
4638E	-2	-2	-2	0	0	-2	-4	-4	90
4663E	-3	-3	-3	-3	-2	-5	-3	0	89
4688E	-8	-5	-5	-3	0	-3	-3	3	86
4713E	-15	-10	-10	-5	0	-5	-5	0	80
4738E	-8	-4	-4	-4	0	-4	-8	-4	73
4763E	2	-2	-4	-4	-2	-2	-2	-2	68
4788E	17	12	2	2	2	-2	-2	-2	68
4813E	-16	-6	-1	0	1	-1	0	0	66
4838E	-46	-29	-14	-8	-3	-3	-2	2	70
4863E	-48	-36	-24	-14	-8	-4	-2	0	78
4888E	-46	-41	-31	-21	-13	-8	-5	0	85
4913E	-31	-29	-21	-15	-10	-6	-2	2	92
4938E	-23	-19	-15	-13	-8	-6	-3	0	98
4963E	-22	-20	-15	-12	-11	-9	-5	-3	104
4988E	-23	-18	-15	-10	-6	-5	-3	0	110
5013E	-19	-15	-11	-8	-6	-6	-3	1	115
5038E	-17	-17	-14	-11	-9	-6	-3	0	120
5063E	-9	-9	-11	-9	-7	-4	-2	2	128
5088E	6	3	-3	-3	-6	-6	-6	3	138
5113E	-5	0	-2	0	0	0	0	3	148
5138E	-14	-10	-5	-5	-2	-2	-2	0	155
5163E	-19	-13	-8	-3	1	0	0	1	161
5188E	-36	-30	-18	-8	-2	-2	-2	0	169
5213E	-33	-31	-22	-11	-4	-4	-4	-4	179
5238E	-35	-32	-22	-14	-5	-5	-5	-3	189
5263E	-25	-23	-13	-8	-2	-2	-2	2	192
5288E	-21	-18	-14	-8	-3	-2	0	2	193
5313E	-20	-15	-14	-7	-3	-3	-2	0	198
5338E	-20	-14	-11	-6	-2	-2	-2	2	187
5363E	-19	-15	-11	-6	-4	-2	-1	0	183
5388E	-25	-17	-15	-8	-4	-4	-2	2	180
5413E	-29	-24	-14	-10	-4	-4	-2	0	173



STATION	V1	V2	V3	V4	V5	V6	V7	V8	ELV
5438E	-44	-38	-24	-15	-3	-3	6	9	165
5463E	-56	-41	-26	-21	-12	-9	-6	0	155
5488E	-69	-51	-34	-23	-14	-11	-11	-6	145
5513E	-53	-38	-27	-18	-13	-13	-7	-2	135
5538E	-83	-61	-42	-25	-14	-6	-3	-3	125
5563E	-88	-63	-44	-31	-21	-15	-10	-2	115
5588E	-130	-100	-74	-52	-35	-22	-17	-9	105
5613E	-122	-94	-67	-42	-22	-8	0	3	95
5638E	-130	-110	-83	-63	-40	-23	-15	-10	85
5663E	-123	-102	-80	-55	-32	-14	-5	0	75
5688E	-121	-102	-82	-63	-39	-21	-7	-2	65
5713E	-123	-103	-81	-59	-36	-17	-5	-1	57
5738E	-144	-124	-96	-66	-42	-20	-12	-4	50
5763E	-156	-131	-98	-71	-44	-27	-13	-4	42
5788E	-131	-102	-73	-51	-31	-20	-9	-2	32
5813E	-118	-95	-67	-47	-27	-20	-9	-2	24
5838E	-95	-80	-62	-45	-31	-20	-11	-5	17
5863E	-96	-79	-59	-44	-29	-21	-10	-1	12
5888E	-84	-68	-49	-34	-23	-16	-9	-4	10
5913E	-84	-65	-48	-35	-24	-17	-8	-4	8
5938E	-85	-68	-53	-37	-25	-17	-10	-3	3
5963E	-88	-72	-54	-40	-30	-22	-14	-4	-2
5988E	-80	-65	-51	-36	-27	-18	-13	-5	-6
6013E	-79	-63	-48	-34	-25	-18	-10	-5	-10
6038E	-67	-58	-44	-33	-25	-19	-14	-11	-12
6063E	-71	-61	-45	-34	-25	-19	-13	-8	-14
6088E	-71	-60	-44	-32	-22	-17	-10	-4	-16
6113E	-66	-55	-40	-31	-22	-15	-11	-6	-18
6138E	-66	-53	-40	-28	-21	-15	-11	-6	-21
6163E	-59	-51	-37	-25	-19	-14	-10	-5	-23
6188E	-78	-65	-49	-32	-22	-15	-7	-1	-25
6213E	-85	-70	-50	-33	-22	-15	-9	-6	-27
6238E	-83	-69	-49	-33	-21	-14	-8	-3	-30
6263E	-82	-74	-56	-38	-26	-21	-15	-10	-34
6288E	-62	-60	-45	-31	-21	-16	-9	-2	-37
6313E	-75	-64	-45	-28	-19	-13	-8	-2	-39
6338E	-102	-84	-59	-39	-23	-16	-11	-5	-39
6363E	-91	-78	-57	-39	-24	-17	-11	-4	-42
6388E	-60	-58	-46	-31	-22	-14	-9	-5	-45
6413E	-44	-44	-42	-32	-24	-15	-10	-7	-48
6438E	-73	-65	-49	-35	-22	-14	-8	-3	-49
6463E	-83	-73	-54	-35	-23	-15	-8	-4	-51
6488E	-87	-69	-47	-31	-18	-11	-6	-2	-53
6513E	-94	-78	-57	-37	-22	-12	-6	-2	-54
6538E	-84	-71	-53	-37	-23	-14	-7	-2	-55
6563E	-83	-71	-51	-36	-24	-14	-9	-4	-56
6588E	-73	-63	-44	-29	-19	-10	-6	-2	-57
6613E	-68	-61	-45	-34	-18	-11	-7	0	-58
6638E	-50	-47	-35	-25	-15	-10	-6	-1	-60
6663E	-66	-53	-39	-24	-18	-11	-8	-3	-60
6688E	-70	-51	-35	-23	-14	-9	-5	2	-60
6713E	-58	-43	-28	-19	-11	-9	-6	-3	-60
6738E	-44	-40	-29	-18	-11	-9	-7	-2	-59
6763E	-55	-42	-28	-18	-12	-6	-2	1	-59
6788E	-43	-37	-24	-14	-10	-6	-3	0	-58
6813E	-44	-29	-19	-11	-7	-4	-1	0	-56
6838E	-61	-40	-21	-13	-8	-6	-2	2	-55
6863E	-73	-46	-25	-13	-6	-2	0	4	-52
6888E	-34	-32	-19	-13	-8	-6	-4	-2	-49

STATION	V1	V2	V3	V4	V5	V6	V7	V8	ELV
6913E	-17	-20	-14	-8	-5	0	0	0	-47
6938E	-25	-25	-17	-12	-8	-6	-4	2	-44
6963E	-30	-21	-13	-7	-6	-4	-4	-4	-40
6988E	-39	-26	-13	-8	-5	-3	-3	-3	-35
7013E	-17	-13	-9	-6	-2	-2	-2	-2	-31
7038E	-14	-14	-11	-6	-3	-3	-2	-2	-26
7063E	-36	-26	-17	-11	-4	-2	-4	-2	-21
7088E	-33	-25	-15	-8	-3	-2	0	5	-16
7113E	-46	-31	-21	-13	-8	-6	-4	2	-11
7138E	-44	-36	-24	-18	-9	-11	-9	-7	-6
7163E	-33	-25	-16	-11	-7	-5	-2	-2	0

Line 10400N, Separation 75 metres, Survey date 13/7/82

4538E	-4	-4	-4	0	0	0	0	4	61
4563E	-7	0	-7	0	0	-7	-7	0	68
4588E	-3	0	0	0	0	-3	0	0	75
4613E	-6	-6	-6	-6	0	0	0	6	79
4638E	-6	-3	-3	-3	0	-3	-3	0	86
4663E	-6	-2	-2	-2	-2	-2	-2	0	90
4688E	-4	-2	-2	-2	-2	-2	-2	-2	93
4713E	-5	-4	-4	-4	-2	-4	-2	-2	95
4738E	-7	-4	-4	-4	-2	-4	-4	0	95
4763E	-7	-5	-5	-2	0	-2	-2	2	95
4788E	-6	-3	-3	-3	0	0	-3	0	95
4813E	-3	-3	0	0	0	0	-3	0	95
4838E	-4	0	0	0	0	-2	-2	-2	95
4863E	-6	0	0	0	0	-6	6	-6	95
4888E	-17	-11	-6	6	6	-6	-6	0	96
4913E	-24	-13	-8	-5	-3	-3	-3	0	97
4938E	-36	-25	-14	-11	-4	-7	-7	4	97
4963E	-26	-20	-14	-9	-6	-6	0	6	98
4988E	-35	-20	-18	-8	-8	-5	-3	3	100
5013E	-33	-21	-15	-9	-6	-3	-3	3	101
5038E	-30	-21	-15	-11	-6	-6	-4	2	103
5063E	-31	-19	-15	-8	-8	-8	-6	-2	105
5088E	-18	-11	-11	-8	-3	-5	-3	3	107
5113E	3	-3	-8	-5	-3	-5	-3	0	110
5138E	27	11	-3	-3	-3	-3	-3	3	115
5163E	39	22	9	4	4	0	0	0	123
5188E	-9	-9	-3	3	0	-3	-3	0	133
5213E	-18	-18	-7	0	0	-4	-4	0	143
5238E	-69	-47	-19	-3	0	0	0	0	153
5263E	-64	-51	-23	-8	-3	-3	0	0	163
5288E	-43	-30	-15	-7	-4	-4	-4	-2	160
5313E	-37	-28	-14	-5	-2	-2	-2	-2	155
5338E	-32	-24	-16	-8	-6	-6	-6	-2	150
5363E	-28	-19	-13	-6	-4	-4	-4	-2	144
5388E	-30	-26	-16	-10	-4	-4	-2	0	140
5413E	-27	-20	-14	-10	-6	-6	-6	-2	134
5438E	-27	-20	-13	-9	-7	-7	-7	-4	126
5463E	-27	-20	-13	-9	-7	-4	-2	2	116
5488E	-28	-18	-15	-10	-8	-5	-5	-3	106
5513E	-38	-24	-22	-14	-11	-8	-8	-3	96
5538E	-48	-39	-26	-16	-10	-10	-6	3	86
5563E	-56	-38	-31	-19	-6	0	6	19	76
5588E	-46	-40	-26	-20	-11	-11	-9	-3	66
5613E	-49	-35	-26	-16	-14	-9	-7	-2	56

STATION	V1	V2	V3	V4	V5	V6	V7	V8	ELV
5638E	-50	-38	-28	-18	-13	-10	-8	-3	48
5663E	-47	-30	-21	-14	-9	-7	-5	0	41
5688E	-56	-40	-31	-18	-13	-11	-7	0	36
5713E	-59	-45	-34	-20	-14	-9	-7	-2	28
5738E	-70	-57	-41	-24	-16	-11	-8	-3	20
5763E	-72	-62	-42	-30	-18	-14	-8	-2	12
5788E	-71	-59	-41	-39	-16	-12	-8	-2	4
5813E	-69	-55	-41	-28	-19	-14	-7	-2	1
5838E	-75	-60	-43	-30	-22	-15	-7	-1	-2
5863E	-88	-67	-50	-36	-24	-17	-8	-3	-4
5888E	-81	-69	-55	-40	-27	-19	-8	-3	-7
5913E	-71	-65	-54	-43	-33	-22	-12	-6	-11
5938E	-84	-80	-69	-58	-44	-31	-13	-7	-12
5963E	-79	-78	-69	-59	-43	-28	-16	-5	-14
5988E	-78	-78	-72	-61	-43	-35	-15	-5	-18
6013E	-85	-84	-76	-66	-51	-31	-18	-7	-21
6038E	-88	-84	-77	-60	-49	-33	-14	-5	-23
6063E	-89	-84	-73	-60	-44	-27	-13	-4	-26
6088E	-80	-76	-67	-53	-41	-27	-11	-4	-27
6113E	-71	-68	-64	-54	-36	-25	-14	-4	-27
6138E	-58	-56	-56	-44	-36	-22	-14	-6	-28
6163E	-90	-85	-74	-62	-46	-28	-15	-8	-29
6188E	-91	-74	-63	-51	-37	-26	-14	-3	-30
6213E	-88	-79	-65	-50	-38	-27	-13	-6	-32
6238E	-83	-76	-64	-52	-38	-22	-12	-7	-34
6263E	-87	-82	-66	-53	-39	-24	-13	-3	-37
6288E	-92	-78	-58	-45	-31	-22	-9	-5	-38
6313E	-122	-97	-72	-53	-39	-19	-14	-6	-40
6338E	-107	-87	-62	-44	-31	-21	-10	-4	-41
6363E	-104	-98	-70	-48	-34	-20	-10	-2	-42
6388E	-92	-89	-66	-47	-34	-23	-11	-6	-43
6413E	-83	-78	-57	-40	-25	-19	-11	-6	-44
6438E	-86	-81	-59	-41	-26	-17	-10	-3	-45
6463E	-83	-79	-57	-38	-26	-17	-11	-4	-46
6488E	-74	-72	-57	-38	-25	-15	-9	-4	-46
6513E	-92	-83	-62	-38	-23	-15	-10	-4	-46
6538E	-98	-87	-65	-46	-29	-17	-10	-4	-46
6563E	-78	-72	-55	-39	-27	-15	-9	-4	-47
6588E	-78	-67	-53	-38	-25	-16	-7	-2	-47
6613E	-70	-59	-45	-32	-23	-14	-6	-2	-47
6638E	-65	-55	-42	-30	-20	-12	-7	-3	-47
6663E	-59	-51	-41	-29	-20	-15	-10	-2	-47
6688E	-59	-54	-39	-27	-20	-15	-10	-5	-46
6713E	-44	-36	-32	-20	-12	-12	-8	-4	-45
6738E	-51	-38	-31	-21	-13	-10	-8	-5	-49
6763E	-61	-39	-28	-17	-11	-11	-11	-6	-48
6788E	-47	-37	-24	-16	-11	-8	-5	-2	-48
6813E	-42	-39	-26	-18	-11	-5	-3	5	-50
6838E	-55	-36	-27	-18	-9	-9	-9	-9	-50
6863E	-65	-42	-26	-14	-12	-9	-7	-2	-50
6888E	-50	-33	-25	-13	-8	-8	-8	-4	-50
6913E	-43	-30	-22	-13	-4	-4	-4	0	-50
6938E	-65	-43	-26	-17	-9	-4	-4	4	-47
6963E	-68	-43	-25	-14	-9	-8	-6	-6	-43
6988E	-60	-40	-25	-15	-5	-5	-5	-5	-42
7013E	-52	-38	-24	-17	-10	-7	-7	-3	-43
7038E	-53	-38	-21	-10	-7	-5	-3	-2	-43
7063E	-74	-57	-31	-17	-9	-6	-6	-3	-42
7088E	-74	-53	-30	-16	-9	-7	-5	-5	-38



STATION	V1	V2	V3	V4	V5	V6	V7	V8	ELV
7113E	-38	-44	-37	-21	-12	-8	-6	0	-37
7138E	-32	-35	-28	-17	-10	-6	-5	-1	-36
7163E	-44	-42	-29	-17	-10	-4	-4	-2	-35
7188E	-52	-45	-29	-17	-9	-7	-3	3	-33
7213E	-74	-53	-33	-16	-9	-7	-5	-2	-32
7238E	-37	-31	-20	-13	-7	-5	-4	-1	-31
7263E	-26	-26	-19	-11	-8	-6	-4	-2	-30
7288E	-33	-30	-23	-16	-9	-7	-5	-5	-25
7313E	-52	-42	-33	-21	-12	-9	-6	-3	-18
7338E	-44	-40	-33	-21	-14	-7	-5	-2	-8
7363E	-29	-27	-24	-16	-12	-8	-4	-2	0

Line 10200N, Separation 75 metres, Survey date 12/7/82

4538E	-3	-3	0	3	3	0	0	0	15
4563E	-6	-3	-3	0	3	0	-3	3	18
4588E	-7	0	-7	0	0	0	-7	7	24
4613E	-4	-4	-4	0	0	-4	-4	0	30
4638E	-5	-3	-3	-3	0	-3	-3	-3	33
4663E	-5	0	-5	-2	-2	-2	-2	-2	35
4688E	-9	-6	-6	0	0	0	-3	3	37
4713E	-23	-16	-16	-16	-16	-23	-29	-23	39
4738E	-15	-9	-9	-3	0	0	0	-3	40
4763E	-18	-12	-9	-3	-3	0	0	3	40
4788E	-24	-16	-12	-8	-4	-4	-4	-2	40
4813E	-58	-44	-33	-21	-9	-9	-2	2	41
4838E	-7	-5	-5	-9	2	-2	-2	2	45
4863E	141	128	91	53	16	0	-3	0	46
4888E	267	263	217	133	60	17	7	10	47
4913E	79	79	67	45	24	9	0	-6	48
4938E	85	85	46	15	0	-15	-15	8	45
4963E	-24	-12	-10	-10	-7	-7	-5	-2	43
4988E	-36	-21	-14	-11	-7	-7	-4	0	45
5013E	-90	-70	-50	-30	-10	-10	-10	0	51
5038E	-86	-63	-43	-26	-14	-11	-6	0	58
5063E	-42	-38	-31	-18	-11	-9	-2	0	64
5088E	-38	-36	-29	-19	-12	-10	-7	-5	68
5113E	-11	-14	-18	-11	-8	-5	-3	0	71
5138E	-26	-24	-20	-11	-9	-4	-4	-2	76
5163E	-37	-32	-24	-18	-11	-11	-11	-5	81
5188E	-21	-18	-18	-13	-8	-8	-5	0	89
5213E	3	5	3	3	3	0	-3	0	93
5238E	0	4	2	2	0	-4	-2	0	96
5263E	-13	-3	0	3	0	-3	-3	0	106
5288E	-52	-30	-13	-4	-2	-2	-4	0	116
5313E	-68	-44	-20	4	12	16	8	-4	124
5338E	-48	-35	-15	-4	-2	-2	-2	0	128
5363E	-44	-31	-13	-3	-2	-2	-2	3	125
5388E	-58	-40	-16	-7	-2	0	0	5	118
5413E	-73	-45	-24	-15	-15	-15	-18	-15	108
5438E	-70	-35	-17	-4	0	9	9	4	100
5463E	-48	-27	-15	-13	-13	-17	-15	-8	92
5488E	-44	-20	-12	-8	-6	-6	-4	2	86
5513E	-42	-21	-12	-7	-5	-5	-2	7	78
5538E	-38	-20	-13	-5	-5	-5	-3	3	68
5563E	-36	-21	-15	-10	-10	-10	-10	-8	58
5588E	-31	-21	-15	-10	-8	-8	-5	0	48
5613E	-30	-19	-14	-11	-5	-5	-5	3	38

STATION	V1	V2	V3	V4	V5	V6	V7	V8	ELV
5638E	-31	-21	-17	-10	-7	-7	-7	3	28
5663E	-30	-21	-15	-9	-9	-9	-6	-6	19
5688E	-21	-16	-12	-9	-7	-7	-7	-5	14
5713E	-17	-13	-10	-6	-4	-4	-2	2	10
5738E	-16	-11	-10	-7	-3	-3	-3	0	8
5763E	-17	-13	-10	-6	-6	-4	-2	2	5
5788E	-16	-13	-9	-6	-6	-5	-3	0	3
5813E	-15	-12	-9	-8	-5	-5	-3	0	2
5838E	-19	-16	-12	-9	-7	-7	-7	-5	1
5863E	-20	-17	-13	-10	-7	-7	-3	3	-1
5888E	-21	-16	-14	-9	-7	-5	-3	-2	-3
5913E	-18	-14	-12	-8	-6	-6	-4	-2	-5
5938E	-22	-17	-15	-11	-6	-6	-4	2	-4
5963E	-21	-16	-12	-9	-7	-5	-5	-2	-4
5988E	-28	-21	-19	-12	-9	-9	-7	-2	-1
6013E	-22	-18	-13	-10	-8	-8	-7	-2	1
6038E	-20	-16	-13	-9	-7	-7	-4	0	4
6063E	-22	-13	-13	-9	-7	-7	-4	-2	6
6088E	-19	-17	-13	-9	-6	-6	-6	0	8
6113E	-18	-15	-12	-10	-8	-12	-10	-8	11
6138E	-23	-18	-16	-11	-9	-7	-5	-2	13
6163E	-24	-18	-14	-12	-6	-6	-4	-2	15
6188E	-24	-19	-15	-11	-9	-9	-7	-2	17
6213E	-21	-16	-13	-10	-8	-6	-5	0	19
6238E	-22	-18	-13	-9	-7	-4	-4	-1	20
6263E	-22	-19	-14	-9	-8	-6	-6	-2	21
6288E	-26	-23	-15	-11	-8	-8	-6	-5	21
6313E	-25	-22	-13	-10	-5	-5	-3	0	21
6338E	-30	-24	-19	-13	-11	-10	-6	0	21
6363E	-33	-30	-23	-13	-10	-8	-5	0	19
6388E	-31	-29	-21	-15	-10	-8	-4	2	16
6413E	-35	-32	-25	-18	-10	-9	-6	0	14
6438E	-33	-28	-22	-14	-9	-8	-5	-2	13
6463E	-47	-40	-32	-23	-13	-11	-6	0	9
6488E	-49	-39	-31	-22	-14	-12	-6	0	5
6513E	-48	-40	-32	-20	-14	-10	-6	-2	2
6538E	-52	-42	-31	-23	-17	-13	-8	4	0
6563E	-61	-47	-33	-23	-16	-13	-8	-3	-2
6588E	-52	-46	-34	-20	-16	-12	-8	-4	-7
6613E	-57	-46	-35	-22	-16	-11	-5	3	-11
6638E	-51	-40	-30	-22	-14	-11	-8	-2	-12
6663E	-51	-39	-27	-20	-12	-9	-5	-1	-13
6688E	-58	-42	-28	-21	-13	-11	-6	-2	-15
6713E	-56	-39	-24	-16	-13	-10	-6	-2	-16
6738E	-26	-21	-17	-14	-10	-7	-7	-2	-19
6763E	-27	-20	-14	-8	-7	-6	-5	-2	-22
6788E	-35	-31	-22	-14	-12	-8	-8	-5	-17
6813E	-45	-35	-24	-15	-11	-9	-7	-2	-11
6838E	-34	-25	-16	-11	-6	-6	-5	-2	-6
6863E	-40	-28	-17	-12	-8	-7	-5	-2	-4
6888E	-35	-25	-14	-10	-6	-5	-3	-3	-3
6913E	-35	-23	-13	-9	-6	-4	-3	-1	-3
6938E	-37	-25	-17	-10	-5	-5	-3	-2	-4
6963E	-42	-29	-19	-11	-6	-5	-3	-2	-8
6988E	-47	-31	-20	-11	-8	-6	-6	-3	-10
7013E	-47	-27	-16	-10	-5	-4	-3	0	-11
7038E	-57	-34	-23	-14	-7	-7	-5	0	-13
7063E	-68	-43	-27	-14	-9	-7	-7	-2	-15
7088E	-67	-44	-23	-16	-9	-7	-5	-2	-18

STATION	V1	V2	V3	V4	V5	V6	V7	V8	ELV
7113E	-70	-41	-24	-14	-6	-3	-2	2	-22
7138E	-78	-45	-24	-13	-7	-3	-3	-1	-22
7163E	-70	-47	-27	-16	-8	-4	1	2	-22
7188E	-74	-47	-28	-17	-10	-5	-4	-3	-23
7213E	-95	-58	-35	-20	-10	-6	-2	-1	-23
7238E	-70	-51	-32	-21	-10	-6	-3	-3	-23
7263E	-44	-38	-29	-17	-10	-8	-6	-4	-23
7288E	-19	-32	-26	-15	-9	-6	-4	-2	-21
7313E	-46	-42	-28	-14	-9	-3	-1	3	-16
7338E	-55	-47	-31	-19	-11	-8	-3	-2	-8
7368E	-46	-35	-22	-13	-6	-4	-3	0	0

Line 10200N, Separation 75 metres, Survey date 22/7/82

4538E	-7	-4	-4	-4	0	-4	-7	-4	0
4563E	-8	0	-4	0	0	-4	0	0	0
4588E	-6	0	-6	0	0	-6	-6	0	0
4613E	-9	-9	0	-9	-9	-18	-9	0	0
4638E	-7	-4	-4	-7	4	-4	-4	4	0
4663E	-13	0	0	0	0	-4	-4	0	0
4688E	-9	-4	-4	0	0	-4	-4	0	0
4713E	-11	-7	-4	0	0	0	0	4	0
4738E	-17	-9	-9	-4	0	-4	-4	4	0
4763E	-19	-14	-10	-5	-5	-10	-10	0	0
4788E	-25	-18	-14	-4	-4	-7	-7	4	0
4813E	-57	-47	-33	-23	-10	-7	-7	0	0
4838E	5	5	5	0	-5	-5	0	0	0
4863E	165	155	105	60	25	0	5	0	0
4888E	305	305	253	163	79	5	-5	0	0
4913E	83	83	70	50	23	3	0	3	0
4938E	110	100	60	27	10	6	7	15	0
4963E	-23	-13	-10	-10	-10	-10	-6	0	0
4988E	-37	-18	-13	-11	-11	-8	-5	0	0
5013E	-106	-72	-47	-28	-19	-13	-6	3	0
5038E	-117	-83	-58	-38	-21	-13	-8	0	0
5063E	-48	-42	-27	-15	-12	-9	-6	3	0
5088E	-40	-35	-26	-19	-12	-9	-5	2	0
5113E	-22	-22	-17	-12	-7	-5	-3	0	0
5138E	-28	-23	-21	-12	-9	-7	-7	-2	0
5163E	-31	-29	-21	-15	-10	-6	-2	2	0
5188E	-33	-23	-20	-10	-7	-7	-7	3	0
5213E	9	6	2	0	0	-2	-2	2	0
5238E	0	14	0	0	3	-3	-3	0	0
5263E	-24	-5	-3	3	3	-3	-3	-3	0
5288E	-48	-30	-10	-5	-3	-5	-5	-3	0
5313E	-60	-40	-17	-6	0	-3	-3	0	0

Line 10000N, Separation 75 metres, Survey date 14/7/82

4538E	-6	-2	-1	-1	-1	-1	0	1	0
4563E	-8	-5	-3	0	0	0	-3	0	2
4588E	-11	-5	-5	-3	-3	-3	-5	0	4
4613E	-15	-12	-8	-4	-4	-4	-4	-4	7
4638E	-18	-15	-9	-9	-3	-3	-3	0	10
4663E	-21	-15	-11	-7	-3	-3	-3	0	14
4688E	-33	-19	-14	-12	-7	-7	-7	-5	20
4713E	-45	-30	-15	-11	-11	-11	-9	0	22

STATION	V1	V2	V3	V4	V5	V6	V7	V8	ELV
4738E	-4	-2	0	-2	-4	-8	-6	2	22
4763E	-5	-23	-26	-23	-21	-18	-13	-5	22
4788E	-32	-67	-67	-56	-42	-28	-18	-7	20
4813E	-52	-77	-68	-51	-33	-21	-10	-4	20
4838E	-141	-119	-83	-56	-37	-21	-10	-5	20
4863E	-167	-121	-75	-49	-28	-15	-10	-3	21
4888E	-143	-117	-74	-43	-22	-13	-7	-2	21
4913E	-119	-104	-65	-37	-19	-8	-5	-1	22
4938E	-138	-115	-69	-33	-13	-10	-8	-3	23
4963E	-200	-122	-62	-27	-9	-4	-4	0	24
4988E	-124	-100	-59	-29	-15	-9	-6	0	28
5013E	-73	-68	-50	-27	-18	-14	-5	0	34
5038E	-123	-100	-54	-31	-8	-8	-8	15	42
5063E	-185	-121	-64	-27	-15	-12	-6	3	50
5088E	-95	-66	-39	-21	-16	-11	-5	-3	56
5113E	-81	-58	-35	-21	-14	-12	-5	0	62
5138E	-63	-47	-28	-19	-13	-9	-3	3	67
5163E	-59	-47	-31	-19	-9	-9	-3	0	73
5188E	-76	-58	-36	-21	-12	-9	0	0	79
5213E	-75	-55	-35	-20	-10	-8	-3	0	86
5238E	-67	-47	-27	-17	-13	-10	-7	-3	91
5263E	-43	-24	-16	-8	-5	-5	-3	3	95
5288E	-56	-31	-13	-6	-6	-6	-6	0	102
5313E	-84	-55	-22	-8	-4	-4	-4	0	110
5338E	-82	-63	-35	-12	-4	-4	-4	-2	116
5363E	-58	-46	-28	-10	-3	-3	-3	-1	118
5388E	-49	-43	-26	-9	-3	-1	1	3	118
5413E	-56	-47	-30	-13	-5	-3	-3	2	116
5438E	-40	-35	-22	-9	-4	-2	0	4	108
5463E	-33	-26	-18	-10	-5	-5	-3	-3	102
5488E	-36	-30	-19	-10	-7	-6	-4	-4	97
5513E	-50	-39	-21	-16	-11	-11	-8	0	93
5538E	-40	-27	-13	-7	-4	-4	-2	0	85
5563E	-26	-15	-11	-6	-4	-4	-4	-2	76

Line 9800N, Separation 75 metres, Survey date 14/7/82

4538E	-7	-4	-4	-2	0	-2	-2	0	-60
4563E	-9	-4	-4	0	-2	-2	-2	0	-63
4588E	-10	-8	-5	-3	-3	-3	-3	0	-65
4613E	-14	-7	-7	-3	-3	-3	-3	-3	-69
4638E	-15	-9	-9	-6	-3	-3	-3	0	-69
4663E	-10	-10	-8	-8	-3	-5	-5	-5	-68
4688E	0	-2	-5	-5	-5	-5	-5	-3	-68
4713E	-4	-6	-6	-6	-6	-6	-4	-2	-67
4738E	-28	-20	-8	-5	-3	-3	-3	-2	-66
4763E	-36	-20	-4	0	2	0	0	-2	-65
4788E	-38	-26	-8	0	3	-3	-3	-3	-63
4813E	-79	-57	-32	-13	-8	-3	-2	0	-62
4838E	-118	-100	-68	-42	-24	-13	-5	-3	-60
4863E	-17	-37	-40	-40	-27	-16	-8	-2	-57
4888E	55	33	2	-16	-19	-17	-10	-2	-54
4913E	7	2	-11	-19	-21	-19	-11	-4	-52
4938E	-90	-88	-76	-62	-42	-24	-10	-2	-50
4963E	-100	-113	-106	-83	-56	-30	-13	-1	-48
4988E	-94	-99	-93	-69	-44	-23	-9	-2	-48
5013E	-101	-100	-90	-67	-43	-24	-9	-3	-47
5038E	-98	-91	-74	-54	-34	-20	-9	-3	-47

STATION	V1	V2	V3	V4	V5	V6	V7	V8	ELV
5063E	-97	-78	-58	-39	-23	-12	-5	-1	-46
5088E	-83	-65	-45	-32	-21	-11	-6	-3	-45
5113E	-97	-72	-49	-33	-18	-11	-7	-3	-45
5138E	-65	-52	-33	-21	-11	-7	-4	-1	-44
5163E	-40	-38	-29	-19	-10	-8	-4	-4	-42
5188E	-28	-32	-30	-19	-13	-11	-6	2	-37
5213E	-33	-35	-33	-23	-14	-7	-5	-2	-31
5238E	0	-18	-23	-23	-18	-10	-5	-3	-23
5263E	-8	-16	-19	-17	-14	-10	-6	-3	-9
5288E	-2	-6	-10	-10	-8	-5	-3	3	-9
5313E	-63	-48	-27	-14	-8	-5	-3	-2	-3
5338E	-87	-65	-37	-14	-6	-3	-3	2	3
5363E	-77	-67	-41	-19	-7	-1	-1	-1	6
5388E	-58	-56	-38	-21	-8	-6	-5	-3	3
5413E	-26	-33	-30	-17	-5	-1	-1	0	2
5438E	-96	-82	-56	-30	-10	-3	-1	-1	1
5463E	-121	-93	-60	-27	-1	1	3	3	4
5488E	-81	-63	-44	-25	-11	-3	-2	0	0
5513E	-57	-47	-38	-28	-19	-9	-8	-6	-4
5538E	-74	-57	-40	-25	-11	-5	-2	-1	3
5563E	-117	-95	-61	-39	-17	-7	-7	-5	6
5588E	-59	-46	-31	-18	-7	-3	-1	0	5
5613E	-54	-42	-28	-17	-8	-4	-1	-1	0

A total of 1178 stations were occupied, some 28.9 kilometres of line coverage on 21 lines.

STATION	V1	V2	V3	V4	V5	V6	V7	V8	ELV
Line 9200N, Separation 75 metres, Survey date 4/8/82									
3488E	-63	-47	-37	-26	-16	-5	0	0	0
3513E	-44	-33	-22	-11	-6	0	0	-6	0
3538E	60	40	30	30	40	20	20	20	0
3563E	78	67	44	28	17	0	-6	0	0
3588E	89	67	44	28	17	0	-6	-6	0
3613E	-31	-38	-38	-31	-23	-23	-23	-23	0
3638E	-196	-150	-100	-68	-46	-32	-21	-14	8
3663E	-186	-143	-95	-67	-38	-24	-19	-14	16
3688E	-136	-100	-62	-38	-23	-15	-8	-5	24
3713E	-149	-102	-55	-32	-21	-13	-9	-4	30
3738E	-108	-82	-50	-26	-16	-11	-5	-3	31
3763E	-42	-50	-42	-25	-17	-11	-8	-6	31
3788E	-23	-57	-57	-43	-23	-17	-11	-9	29
3813E	6	-33	-36	-30	-18	-12	-9	-3	28
3838E	-74	-69	-57	-43	-26	-17	-11	-6	26
3863E	-61	-57	-39	-30	-22	-17	-9	-9	22
3888E	-44	-44	-44	-33	-28	-17	-17	-11	25
3913E	-124	-97	-68	-49	-32	-22	-16	-11	26
3938E	-128	-106	-78	-44	-28	-22	-17	-17	29
3963E	-136	-96	-56	-32	-20	-12	-8	-8	32
3988E	-129	-80	-43	-23	-11	-6	-6	-3	34
4013E	-129	-88	-56	-29	-15	-9	-6	-6	36
4038E	-109	-77	-50	-27	-14	-5	0	-5	38
4063E	-103	-69	-42	-19	-11	-6	-6	-6	40
4088E	-123	-77	-38	-23	-12	-12	-8	-4	44
4113E	-152	-96	-52	-24	-12	-8	-8	-4	48
4138E	-186	-145	-100	-64	-32	-14	-5	0	53
4163E	-196	-174	-148	-109	-70	-26	-13	-4	59
4188E	-164	-157	-140	-119	-83	-43	-12	-5	63
4213E	-148	-144	-140	-120	-96	-56	-20	-12	68
4238E	-81	-92	-96	-88	-73	-42	-19	-8	72
4263E	-56	-78	-89	-89	-72	-39	-22	-6	77
4288E	-54	-64	-71	-71	-57	-36	-18	-7	82
4313E	-70	-70	-70	-65	-50	-35	-20	-15	87
4338E	-123	-114	-95	-73	-59	-27	-18	-9	91
4363E	-117	-113	-100	-80	-63	-40	-20	-10	96
4388E	-92	-92	-88	-77	-54	-31	-15	-8	102
4413E	-80	-80	-80	-70	-55	-35	-25	-15	108
4438E	-52	-52	-48	-39	-30	-22	-17	-4	114
4463E	-37	-37	-33	-26	-19	-15	-11	-7	120
4488E	-30	-23	-20	-13	-10	-10	-7	-3	126
4513E	-23	-20	-20	-13	-7	-7	-3	-3	132
4538E	-17	-17	-17	-13	-9	-9	-9	-4	138
4563E	-14	-14	-11	-7	-4	-4	-4	-4	143
4588E	-12	-12	-12	-8	-4	-4	-4	-4	150
4613E	-17	-11	-11	-6	0	0	-6	-6	157
4638E	-17	-11	-11	-6	0	0	0	0	164
4663E	-9	-6	-6	-3	0	0	3	3	172
4688E	-8	-5	-5	-3	-3	-2	-2	-2	174
4713E	-9	-7	-4	-2	0	0	0	-2	174
4738E	-9	-9	-6	-3	-3	-3	0	3	172

Line 9000N, Separation 75 metres, Survey date 5/8/82

3363E	-94	-88	-81	-75	-69	-66	-50	-38	-95
-------	-----	-----	-----	-----	-----	-----	-----	-----	-----



STATION	V1	V2	V3	V4	V5	V6	V7	V8	ELV
3388E	-104	-94	-82	-72	-62	-50	-28	-14	-96
3413E	-51	-51	-49	-46	-41	-32	-22	-11	-97
3438E	29	5	-7	-17	-24	-26	-21	-12	-98
3463E	69	26	-3	-9	-14	-17	-17	-11	-99
3488E	94	33	-11	-22	-28	-33	-33	-17	-98
3513E	68	13	-13	-19	-19	-16	-13	-10	-97
3538E	76	24	-8	-16	-20	-16	-8	-4	-95
3563E	22	3	-9	-13	-13	-13	-9	-3	-92
3588E	-24	-27	-24	-21	-15	-15	-9	-3	-88
3613E	-109	-109	-96	-65	-39	-26	-13	-4	-82
3638E	-173	-173	-140	-93	-53	-27	-13	-7	-78
3663E	-104	-126	-109	-74	-39	-17	-9	0	-75
3688E	193	150	95	55	30	15	5	0	-72
3713E	290	255	193	134	83	45	17	7	-70
3738E	256	228	194	156	111	61	28	11	-64
3763E	-169	-145	-115	-85	-55	-31	-12	-6	-61
3788E	-110	-98	-85	-73	-62	-50	-35	-22	-61
3813E	-79	-69	-65	-61	-58	-55	-48	-35	-62
3838E	-73	-65	-61	-59	-59	-59	-57	-43	-62
3863E	-71	-63	-61	-61	-61	-61	-59	-41	-62
3888E	-92	-80	-76	-76	-76	-76	-68	-46	-62
3913E	-113	-97	-97	-100	-106	-103	-91	-59	-62
3938E	-59	-43	-41	-39	-41	-39	-33	-22	-64
3963E	-35	-18	-18	-15	-18	-18	-18	-13	-69
3988E	-20	5	10	15	0	-15	-25	-20	-63
4013E	-45	-34	-31	-28	-34	-31	-31	-21	-53
4038E	-68	-64	-64	-59	-55	-45	-27	-14	-43
4063E	-64	-68	-68	-64	-57	-54	-36	-21	-33
4088E	-48	-52	-52	-48	-43	-39	-30	-17	-26
4113E	-37	-37	-37	-34	-31	-29	-23	-14	-20
4138E	-34	-34	-34	-26	-24	-24	-18	-11	-15
4163E	-24	-20	-20	-16	-16	-13	-13	-9	-10
4188E	-32	-26	-24	-21	-18	-18	-15	-12	-5
4213E	-29	-21	-17	-15	-13	-13	-10	-8	0

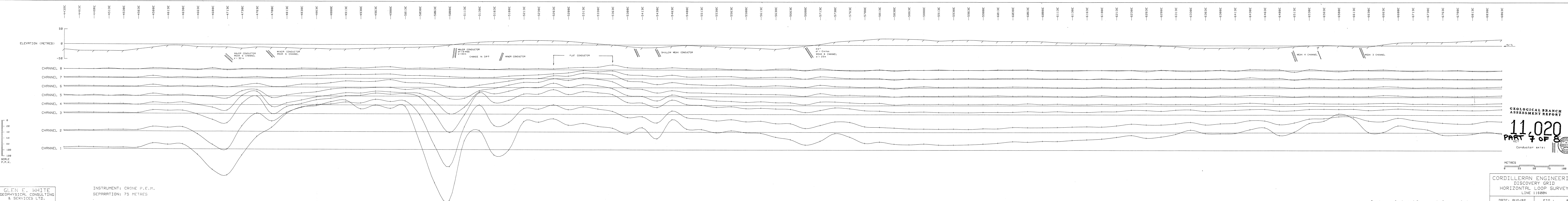
Line 8800N, Separation 75 metres, Survey date 4/8/82

3313E	-84	-71	-55	-39	-29	-23	-19	-13	287
3338E	-103	-88	-65	-48	-30	-20	-15	-5	282
3363E	-48	-56	-56	-48	-33	-22	-19	-11	278
3388E	209	174	113	57	17	-4	-13	-9	273
3413E	222	204	157	104	52	13	-4	-4	269
3438E	217	187	140	100	57	13	-3	-3	264
3463E	129	76	35	12	-6	-18	-18	-18	259
3488E	60	0	-40	-40	-40	-30	-20	-10	255
3513E	-29	-53	-65	-53	-41	-24	-12	-6	248
3538E	84	16	-36	-48	-40	-28	-20	-8	242
3563E	130	100	61	39	22	4	-4	0	236
3588E	147	103	71	47	29	18	3	-3	230
3613E	62	49	24	11	3	0	-3	0	224
3638E	0	-25	-30	-25	-15	-15	-10	-10	216
3663E	-19	-31	-38	-31	-25	-13	-9	-6	208
3688E	-19	-33	-33	-30	-26	-11	-11	-7	200
3713E	-94	-82	-59	-47	-35	-24	-18	-12	192
3738E	-80	-59	-41	-34	-22	-17	-12	-7	185
3763E	-78	-56	-33	-22	-13	-9	-9	-7	185
3788E	-80	-57	-37	-20	-14	-8	-6	-4	185
3813E	-80	-51	-31	-18	-13	-9	-7	-5	185

STATION	V1	V2	V3	V4	V5	V6	V7	V8	ELV
3838E	-96	-65	-39	-20	-12	-8	-6	-6	185
3863E	-96	-61	-33	-20	-12	-6	-6	-6	184
3888E	-85	-53	-27	-16	-10	-6	-5	-5	184
3913E	-93	-60	-33	-17	-8	-7	-7	-5	184
3938E	-79	-57	-33	-17	-10	-7	-7	-7	185
3963E	-80	-54	-30	-14	-8	-4	-4	-4	187
3988E	-64	-38	-15	-10	-8	-5	-5	-5	188
4013E	-20	-17	-12	-7	-3	-2	-3	-3	185
4038E	-23	-20	-13	-8	-3	-3	-5	-8	186
4063E	-23	-25	-18	-10	-8	-5	-5	-5	176
4088E	-35	-33	-21	-12	-5	-2	-5	-5	172
4113E	-38	-32	-21	-12	-6	-3	-3	-3	167
4138E	-63	-46	-29	-17	-8	-4	-4	-4	160
4163E	-48	-36	-19	-12	-7	-5	-5	-5	154
4188E	-41	-30	-19	-11	-8	-3	-5	-5	148
4213E	-37	-26	-16	-11	-5	0	0	-3	142
4238E	-48	-32	-23	-13	-6	-3	-3	-3	136
4263E	-32	-24	-16	-8	-5	-3	-3	-3	130
4288E	-35	-25	-18	-10	-8	-3	-5	-3	125
4313E	-33	-23	-15	-8	-5	0	-3	-3	120
4338E	-27	-21	-15	-6	-6	0	0	-3	115
4363E	-21	-17	-11	-6	-4	-2	-2	-2	109
4388E	-19	-14	-8	-5	-3	0	0	-3	105
4413E	-19	-17	-10	-7	-2	-2	0	0	100
4438E	-16	-13	-9	-6	-3	-3	0	-3	93
4463E	-13	-13	-10	-8	-5	-3	-3	-3	86
4488E	-27	-19	-8	-8	-4	0	0	-4	78
4513E	-27	-19	-12	-8	-4	-4	0	0	68
4538E	-17	-13	-10	-7	-3	-3	-3	-3	60
4563E	-18	-12	-6	-3	-3	-3	-3	-3	52
4588E	-13	-9	-6	-6	0	0	0	0	42
4613E	-13	-10	-6	-6	0	0	0	-3	32
4638E	-7	-7	-7	-4	0	0	0	0	22
4663E	-12	-12	-8	-4	0	0	0	0	12
4688E	-9	-6	-6	-3	-3	0	0	-3	2
4713E	-4	-4	-4	-2	0	0	0	0	1
4738E	-6	-3	-3	-2	0	0	0	-2	1
4763E	-4	-3	-3	-1	0	0	0	0	0

A total of 145 stations were occupied, some 3.6 kilometres of line coverage on 3 lines.





GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

INSTRUMENT: CRONE P.E.M.  
SEPARATION: 75 METRES

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

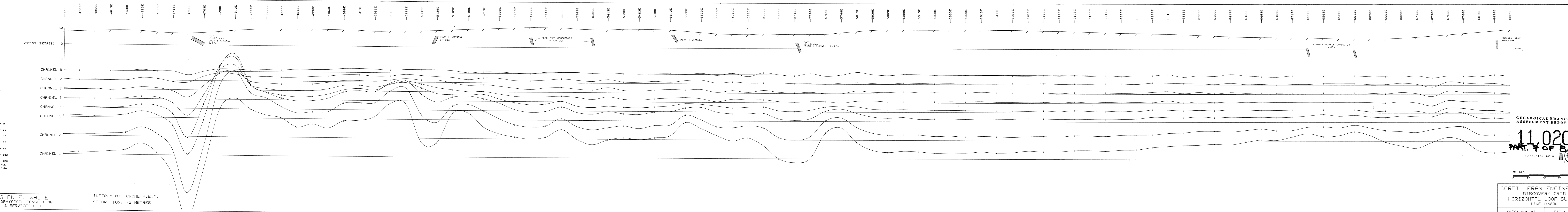
11,020  
PART 7 OF 8  
KEY  
Conductor axis:

METRES  
0 25 50 75 100

CORDILLERAN ENGINEERING  
DISCOVERY GRID  
HORIZONTAL LOOP SURVEY  
LINE 11500N

DATE: AUG/82 FIG.: 8

To accompany Geophysical Report on the Discovery Grid



GLEN E. WHITE  
 GEOPHYSICAL CONSULTING  
 & SERVICES LTD.

INSTRUMENT: CRONE P.E.M.  
 SEPARATION: 75 METRES

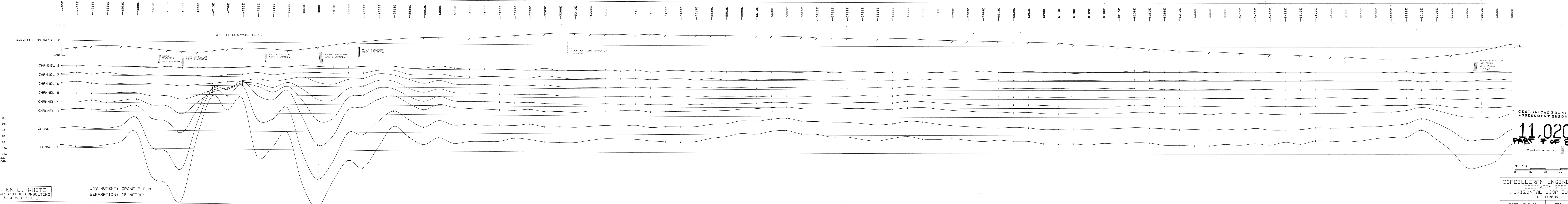
GEOLOGICAL BRANCH  
 ASSESSMENT REPORT  
**11,020**  
 PART 7 OF 8  
 KEY  
 Conductor axis:

METRES  
 0 25 50 75 100

CORDILLERAN ENGINEERING  
 DISCOVERY GRID  
 HORIZONTAL LOOP SURVEY  
 LINE 11400N

DATE: AUG/82 FIG.: 10

To accompany Geophysical Report on the Discovery Grid



GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

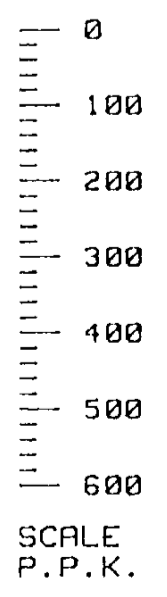
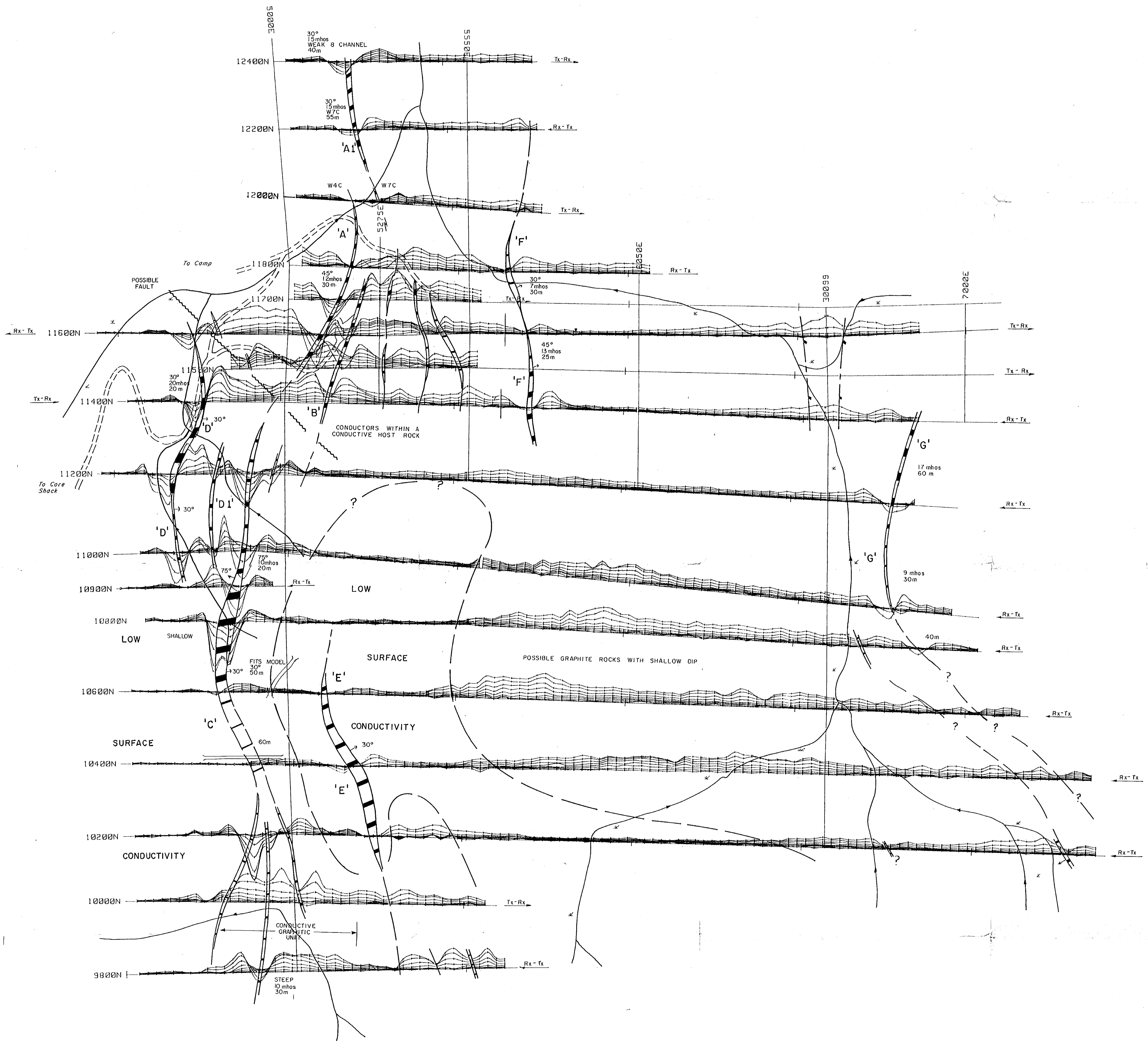
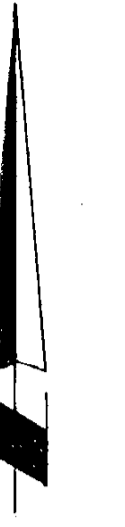
INSTRUMENT: CRONE P.E.M.  
SEPARATION: 75 METRES

CONDUCTOR AXIS:

GEOLOGICAL BRANCH  
ASSESSMENT REPORT  
**11,020**  
PART 7 OF 8  
KEY  
CONDUCTOR AXIS: [Symbol]

METRES  
0 25 50 75 100

CORDILLERAN ENGINEERING  
DISCOVERY GRID  
HORIZONTAL LOOP SURVEY  
LINE 11200N  
DATE: AUG/82 FIG.: 11



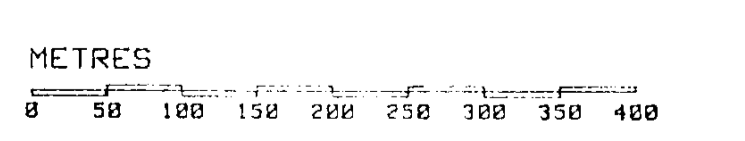
SCALE  
P.P.K.

KEY

- Conductor axis: 'A'
- Fault:
- Geological contact:
- Claim boundary:
- Claim post:

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

**11,020**  
**PART 7 OF 8**



GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

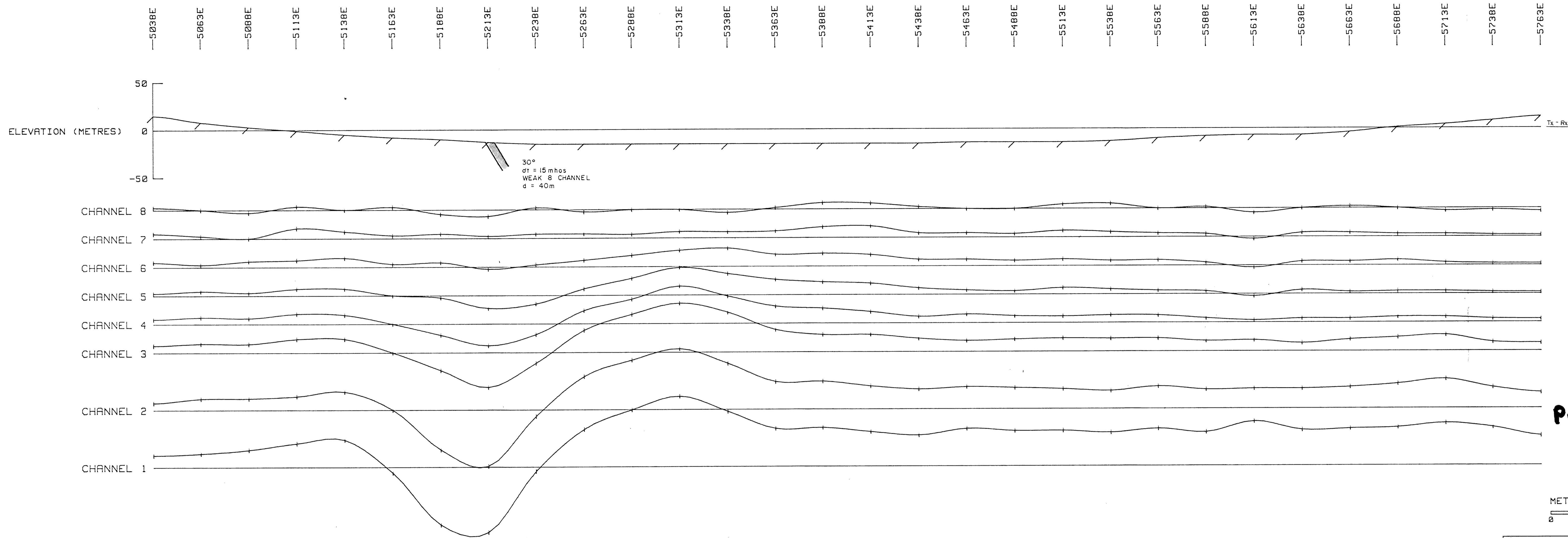
INSTRUMENT: CRONE P.E.M.



To accompany Geophysical Report on the Discovery Grid

CORDILLERAN ENGINEERING  
DISCOVERY GRID  
HORIZONTAL LOOP SURVEY  
SEPARATION: 75 METRES

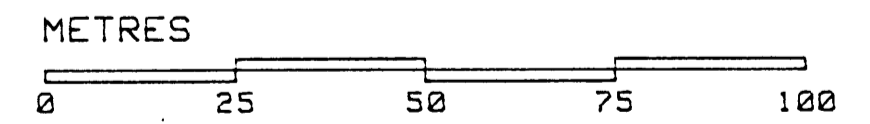
DATE: AUG/82      FIG.: 2



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

**11,020**  
**PART 7 OF 8**

KEY  
Conductor axis:



GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

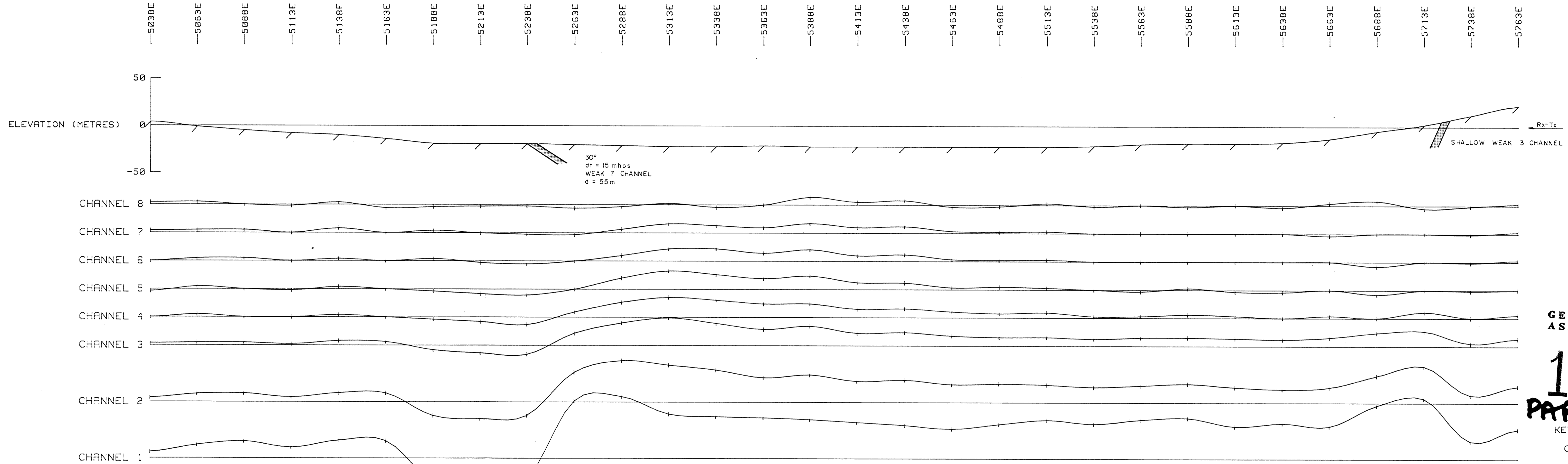
INSTRUMENT: CRONE P.E.M.  
SEPARATION: 75 METRES

CORDILLERAN ENGINEERING  
DISCOVERY GRID  
HORIZONTAL LOOP SURVEY  
LINE 12400N

DATE: AUG/82      FIG.: 3

To accompany Geophysical Report on the Discovery Grid

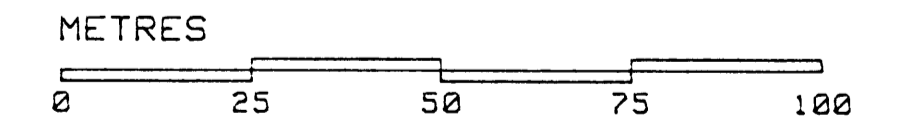




GEOLOGICAL BRANCH  
ASSESSMENT REPORT

**11,020**  
**PART 7 OF 8**

KEY  
Conductor axis:



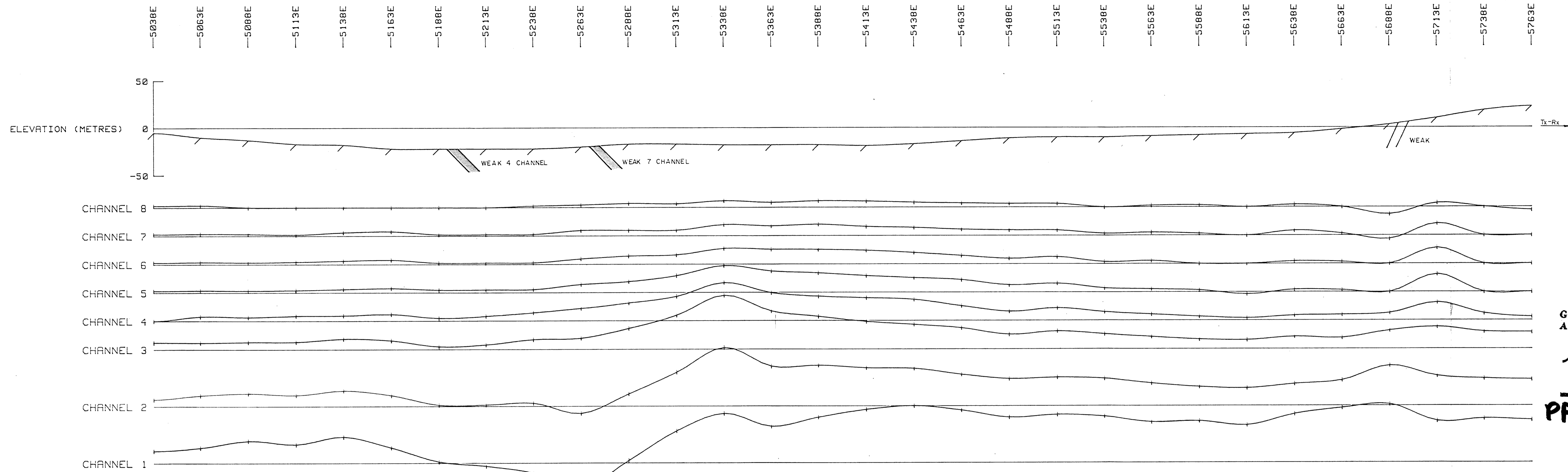
GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

INSTRUMENT: CRONE P.E.M.  
SEPARATION: 75 METRES

CORDILLERAN ENGINEERING  
DISCOVERY GRID  
HORIZONTAL LOOP SURVEY  
LINE 12200N

DATE: AUG/82      FIG.: 4

To accompany Geophysical Report on the Discovery Grid



0  
20  
40  
60  
80  
100  
120  
SCALE  
P.P.K.

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

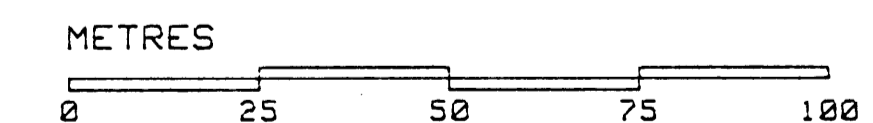
INSTRUMENT: CRONE P.E.M.  
SEPARATION: 75 METRES

To accompany Geophysical Report on the Discovery Grid

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

11,020  
PART 7 OF 8  
KEY

Conductor axis:

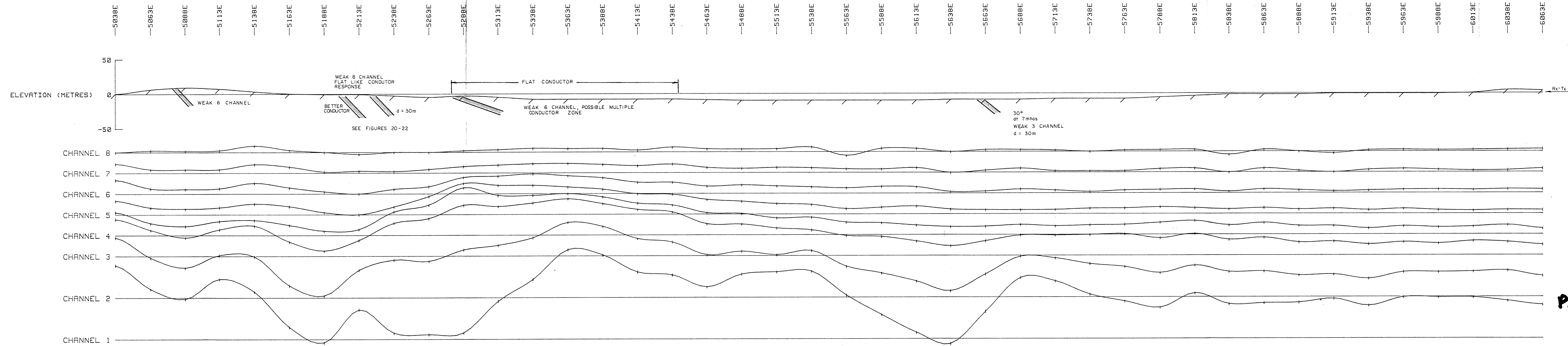


CORDILLERAN ENGINEERING  
DISCOVERY GRID  
HORIZONTAL LOOP SURVEY  
LINE 12000N

DATE: AUG/82

FIG.: 5





0  
20  
40  
60  
80  
100  
120  
SCALE  
P.P.K.

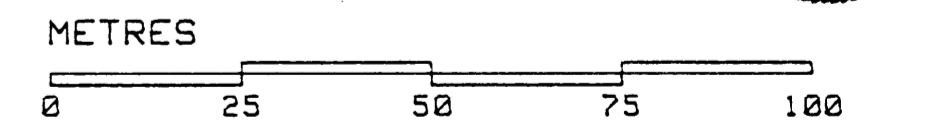
GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

INSTRUMENT: CRONE P.E.M.  
SEPARATION: 75 METRES

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

11,020  
PART 7 OF 8  
KEY

Conductor axis:



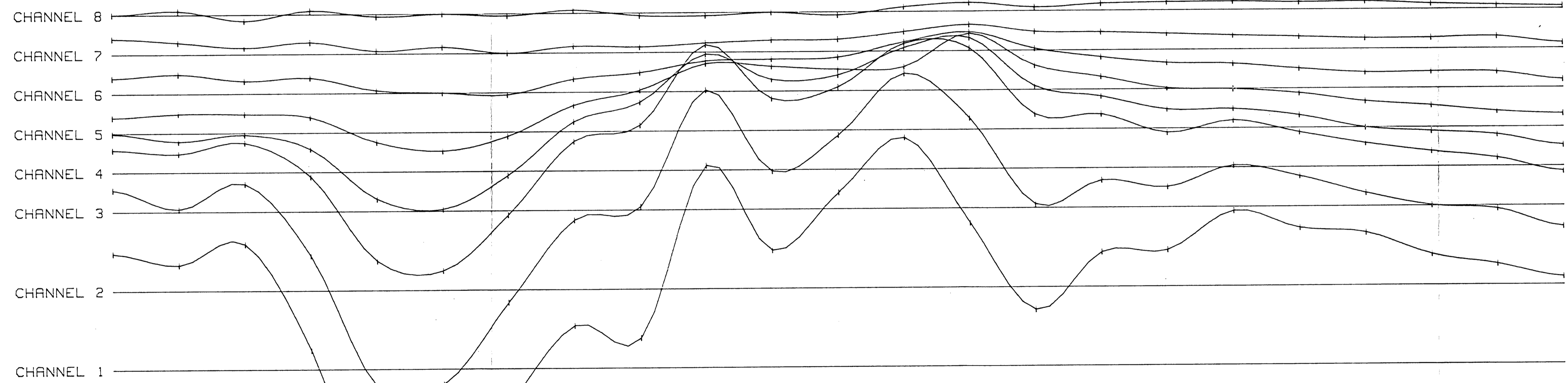
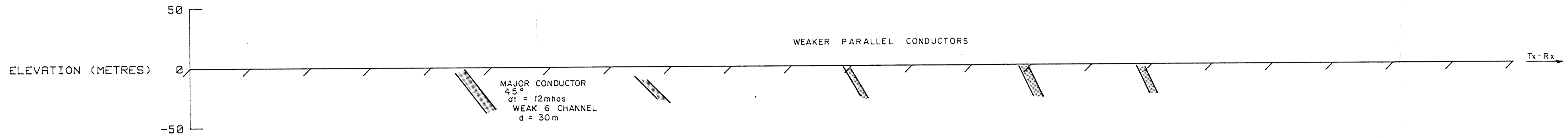
CORDILLERAN ENGINEERING  
DISCOVERY GRID  
HORIZONTAL LOOP SURVEY  
LINE 11800N

DATE: AUG/82

FIG.: 6

To accompany Geophysical Report on the Discovery Grid

—5013E —5038E —5063E —5088E —5113E —5138E —5163E —5188E —5213E —5238E —5263E —5288E —5313E —5338E —5363E —5388E —5413E —5438E —5463E —5488E —5513E —5538E —5563E

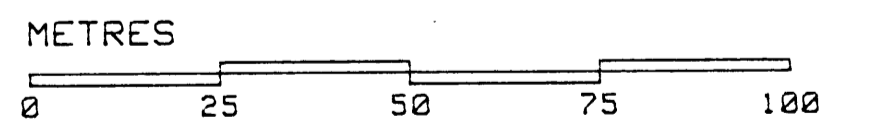


0  
20  
40  
60  
80  
100  
120  
SCALE  
P.P.K.

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

**11,020**  
PART 7 OF 8  
KEY

Conductor axis:



GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

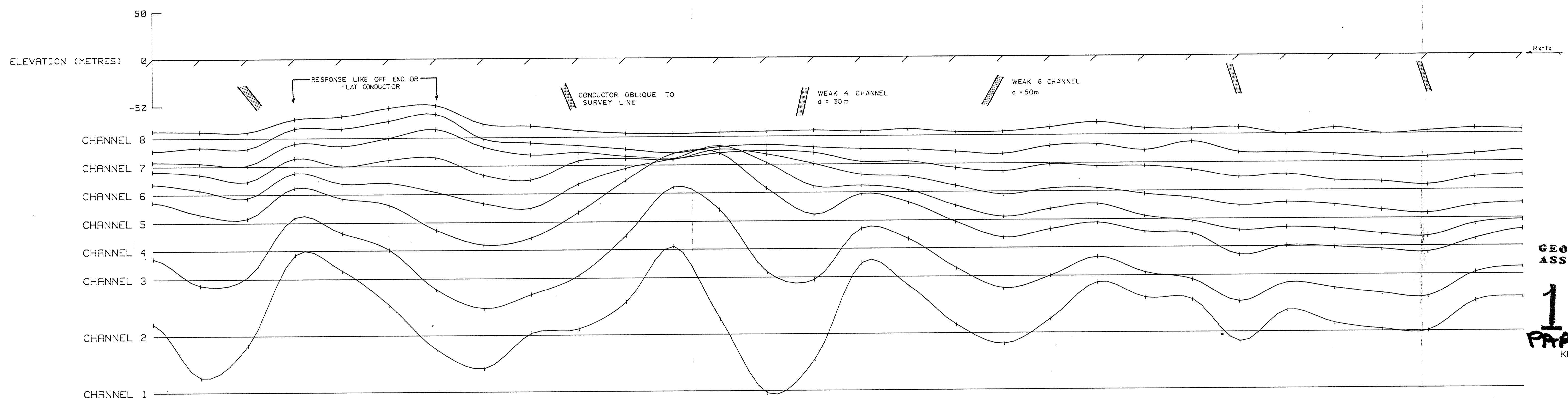
INSTRUMENT: CRONE P.E.M.  
SEPARATION: 75 METRES

CORDILLERAN ENGINEERING  
DISCOVERY GRID  
HORIZONTAL LOOP SURVEY  
LINE 11700N

DATE: AUG/82 FIG.: 7

To accompany Geophysical Report on the Discovery Grid

—4838E —4863E —4888E —4913E —4938E —4963E —4988E —5013E —5038E —5063E —5088E —5113E —5138E —5163E —5188E —5213E —5238E —5263E —5288E —5313E —5338E —5363E —5388E —5413E —5438E —5463E —5488E —5513E —5538E —5563E

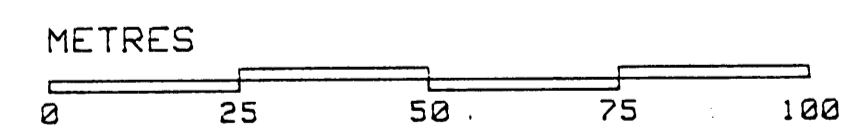


0  
20  
40  
60  
80  
100  
120  
SCALE  
P.P.K.

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

**11,020**  
PART 7 OF 8  
KEY

Conductor axis:



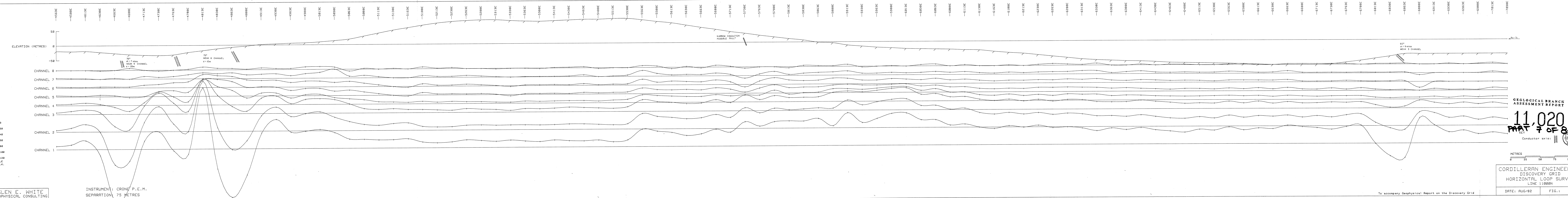
GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

INSTRUMENT: CRONE P.E.M.  
SEPARATION: 75 METRES

To accompany Geophysical Report on the Discovery Grid

CORDILLERAN ENGINEERING  
DISCOVERY GRID  
HORIZONTAL LOOP SURVEY  
LINE 11500N

DATE: AUG/82 FIG.: 9



GLEN E. WHITE  
 GEOPHYSICAL CONSULTING

INSTRUMENT: CRONE P.E.M.  
 SEPARATION: 75 METRES

GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

11,020  
 PART 7 OF 8  
 KEY

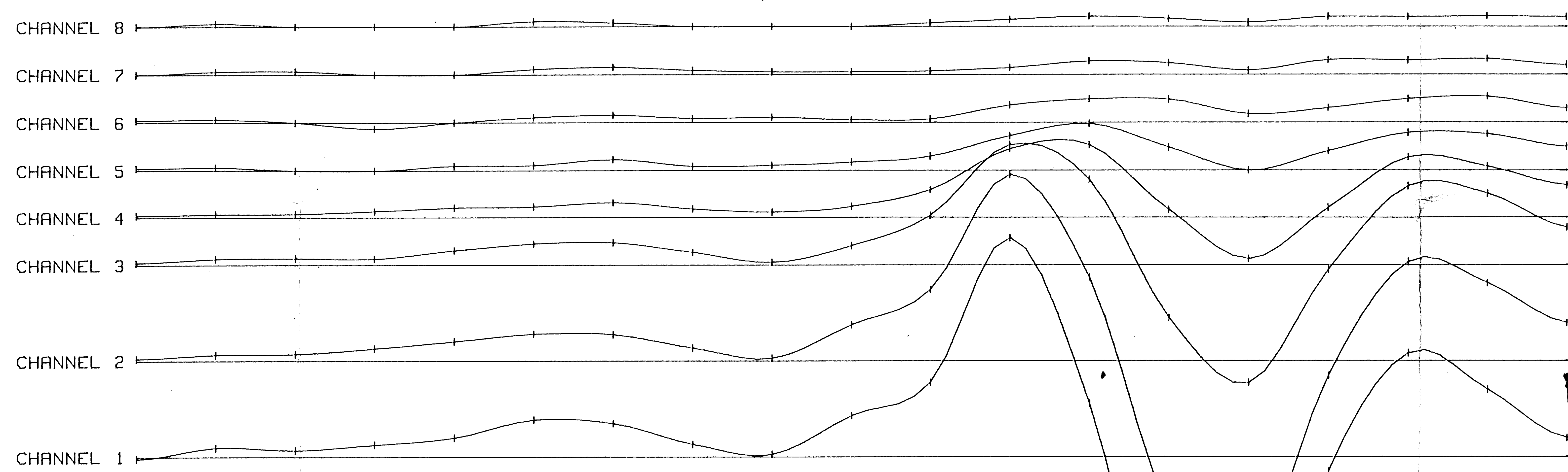
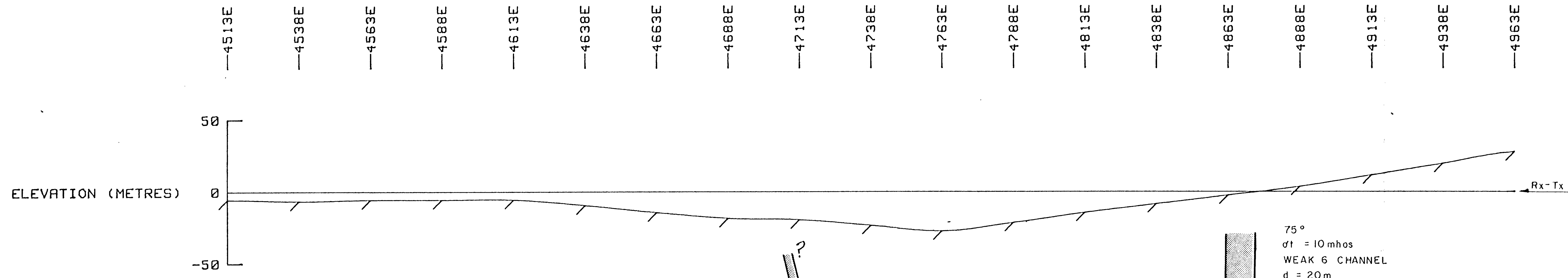
Conductor axis:

METRES  
 0 25 50 75 100

CORDILLERAN ENGINEERING  
 DISCOVERY GRID  
 HORIZONTAL LOOP SURVEY  
 LINE 11020N

DATE: AUG/82 FIG.: 12

To accompany Geophysical Report on the Discovery Grid

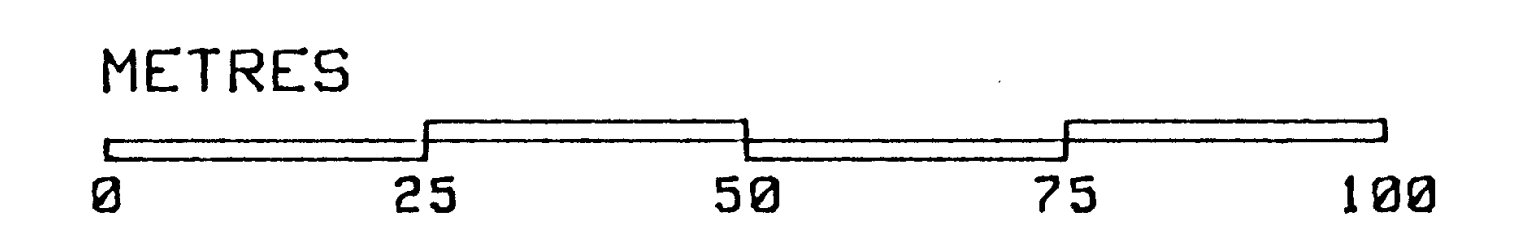


0  
20  
40  
60  
80  
100  
120  
SCALE  
P.P.K.

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**11,020**  
**PART 7 OF 8**

KEY  
Conductor axis:



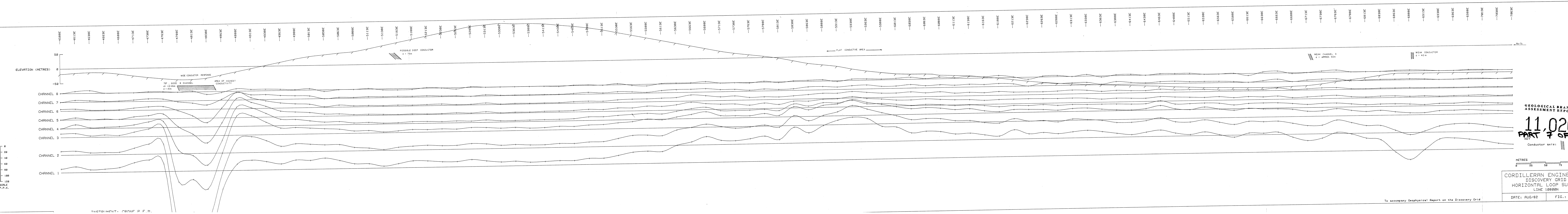
GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

INSTRUMENT: CRONE P.E.M.  
SEPARATION: 75 METRES

To accompany Geophysical Report on the Discovery Grid

CORDILLERAN ENGINEERING  
DISCOVERY GRID  
HORIZONTAL LOOP SURVEY  
LINE 10900N

DATE: AUG/82	FIG.: 13
--------------	----------



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

**11,020**  
PART 7 OF 8

KEY

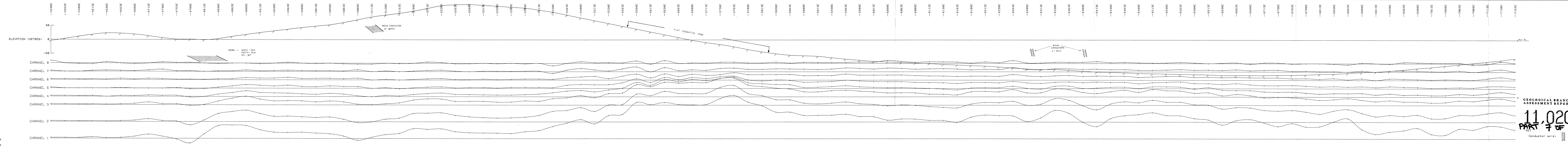
Conductor axis:

CORDILLERAN ENGINEERING  
DISCOVERY GRID  
HORIZONTAL LOOP SURVEY  
LINE 10800N

DATE: AUG/82      FIG.: 14

To accompany Geophysical Report on the Discovery Grid





GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

INSTRUMENT: CRONE P.E.M.  
SEPARATION: 75 METRES

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

11,020  
PART 7 OF 8  
KEY

Conductor axis:  
GLEN E. WHITE  
GEOLOGICAL ENGINEER

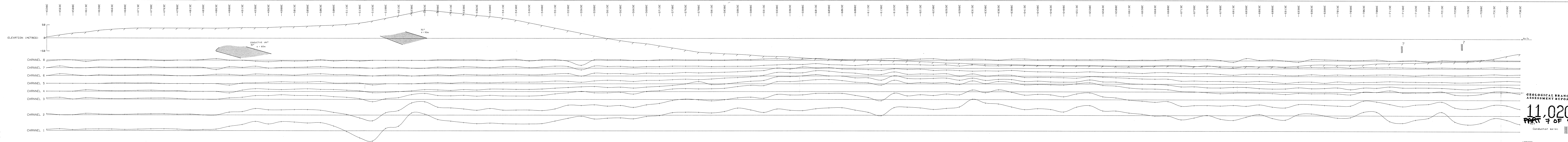
METRES  
0 25 50 75 100

CORDILLERAN ENGINEERING  
DISCOVERY GRID  
HORIZONTAL LOOP SURVEY  
LINE 10600N

DATE: AUG/82 FIG.: 15

To accompany Geophysical Report on the Discovery Grid





GLEN E. WHITE  
 GEOPHYSICAL CONSULTING  
 & SERVICES LTD.

INSTRUMENT: CRONE P.E.M.  
 SEPARATION: 75 METRES

GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

11,020  
 PART 7 OF 8  
 KEY

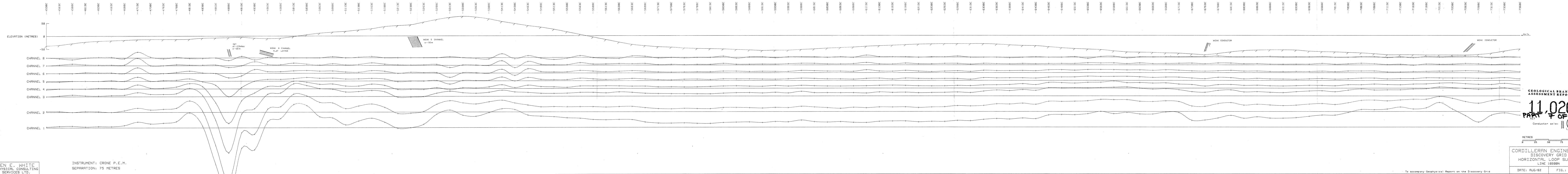
Conductor axis:

0 25 50 75 100  
 METRES

CORDILLERAN ENGINEERING  
 DISCOVERY GRID  
 HORIZONTAL LOOP SURVEY  
 LINE 10400N

DATE: AUG/82 FIG.: 16

To accompany Geophysical Report on the Discovery Grid



GLEN E. WHITE  
 GEOPHYSICAL CONSULTING  
 & SERVICES LTD.

INSTRUMENT: CRONE P.E.M.  
 SEPARATION: 75 METRES

GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

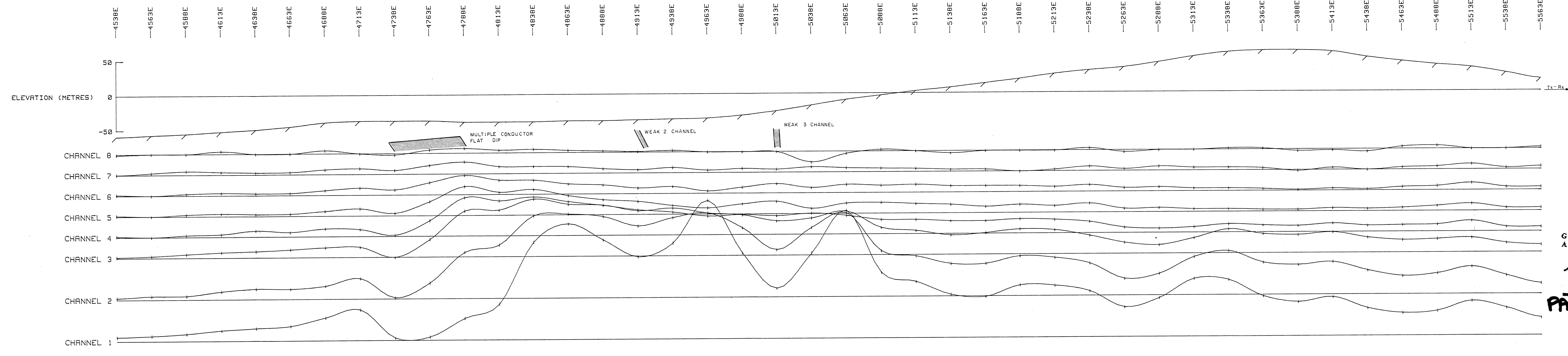
11,020  
 PART 7 OF 8  
 KEY  
 Conductor axis:

METRES  
 0 25 50 75 100

CORDILLERAN ENGINEERING  
 DISCOVERY GRID  
 HORIZONTAL LOOP SURVEY  
 LINE 10220N

DATE: AUG/82 FIG.: 17

To accompany Geophysical Report on the Discovery Grid

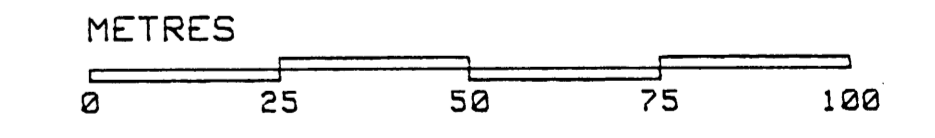
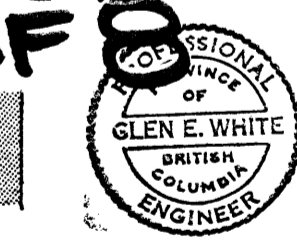


0  
20  
40  
60  
80  
100  
120  
SCALE  
P.P.K.

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

INSTRUMENT: CRONE P.E.M.  
SEPARATION: 75 METRES

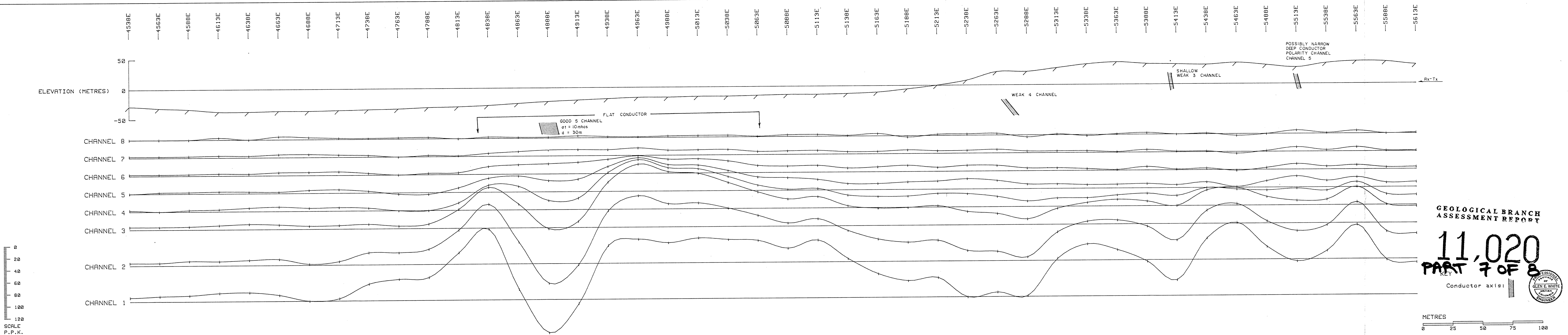
GEOLOGICAL BRANCH  
ASSESSMENT REPORT  
**11,020**  
PART 7 OF 8  
Conductor axis:



CORDILLERAN ENGINEERING  
DISCOVERY GRID  
HORIZONTAL LOOP SURVEY  
LINE 1000N

DATE: AUG/82      FIG.: 18

To accompany Geophysical Report on the Discovery Grid

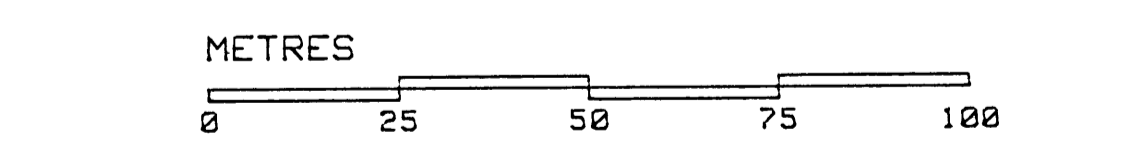


GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

INSTRUMENT: CRONE P.E.M.  
SEPARATION: 75 METRES

To accompany Geophysical Report on the Discovery Grid

GEOLOGICAL BRANCH  
ASSESSMENT REPORT  
**11,020**  
PART 7 OF 8  
KEY  
Conductor axis:

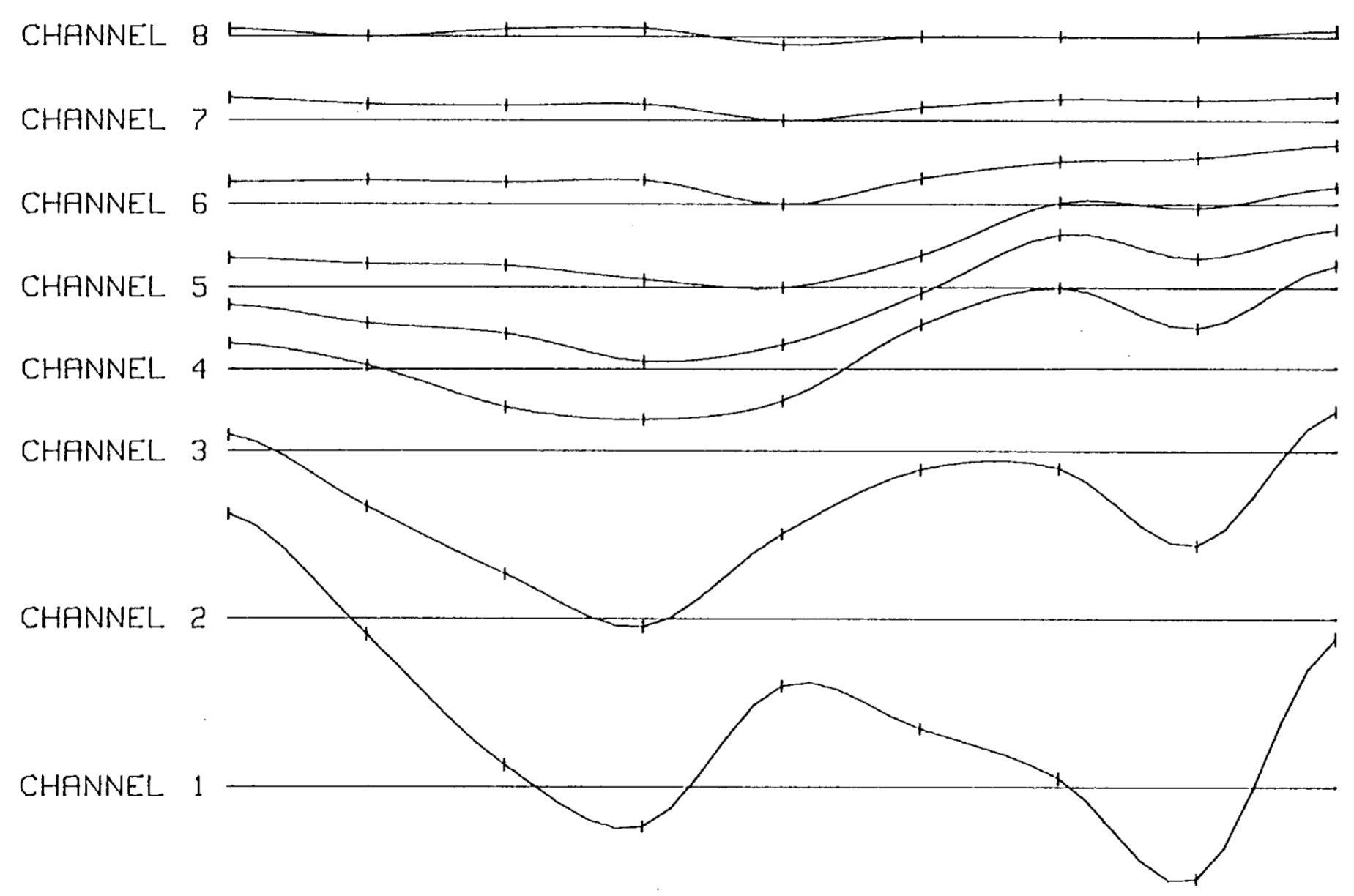
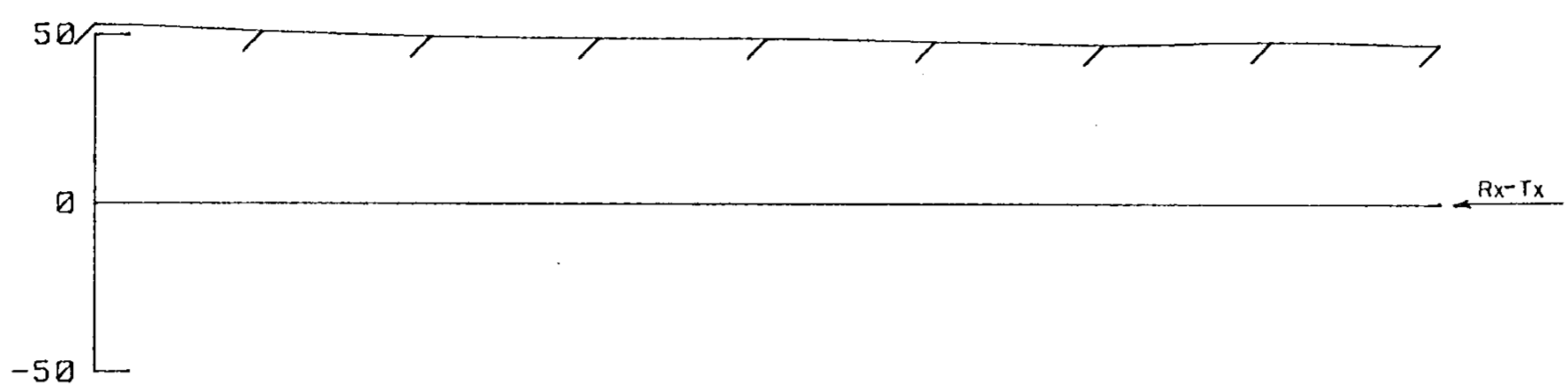


CORDILLERAN ENGINEERING  
DISCOVERY GRID.  
HORIZONTAL LOOP SURVEY  
LINE 9800N

DATE: AUG/82      FIG.: 19

—5113E —5138E —5163E —5188E —5213E —5238E —5263E —5288E —5313E

ELEVATION (METRES)



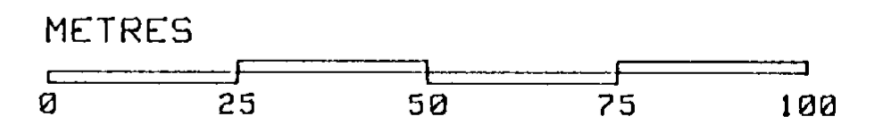
0  
20  
40  
60  
80  
100  
120  
SCALE  
P.P.K.

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**11,020**  
**PART 7 OF 8**

KEY

Conductor axis:



**GLEN E. WHITE**  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

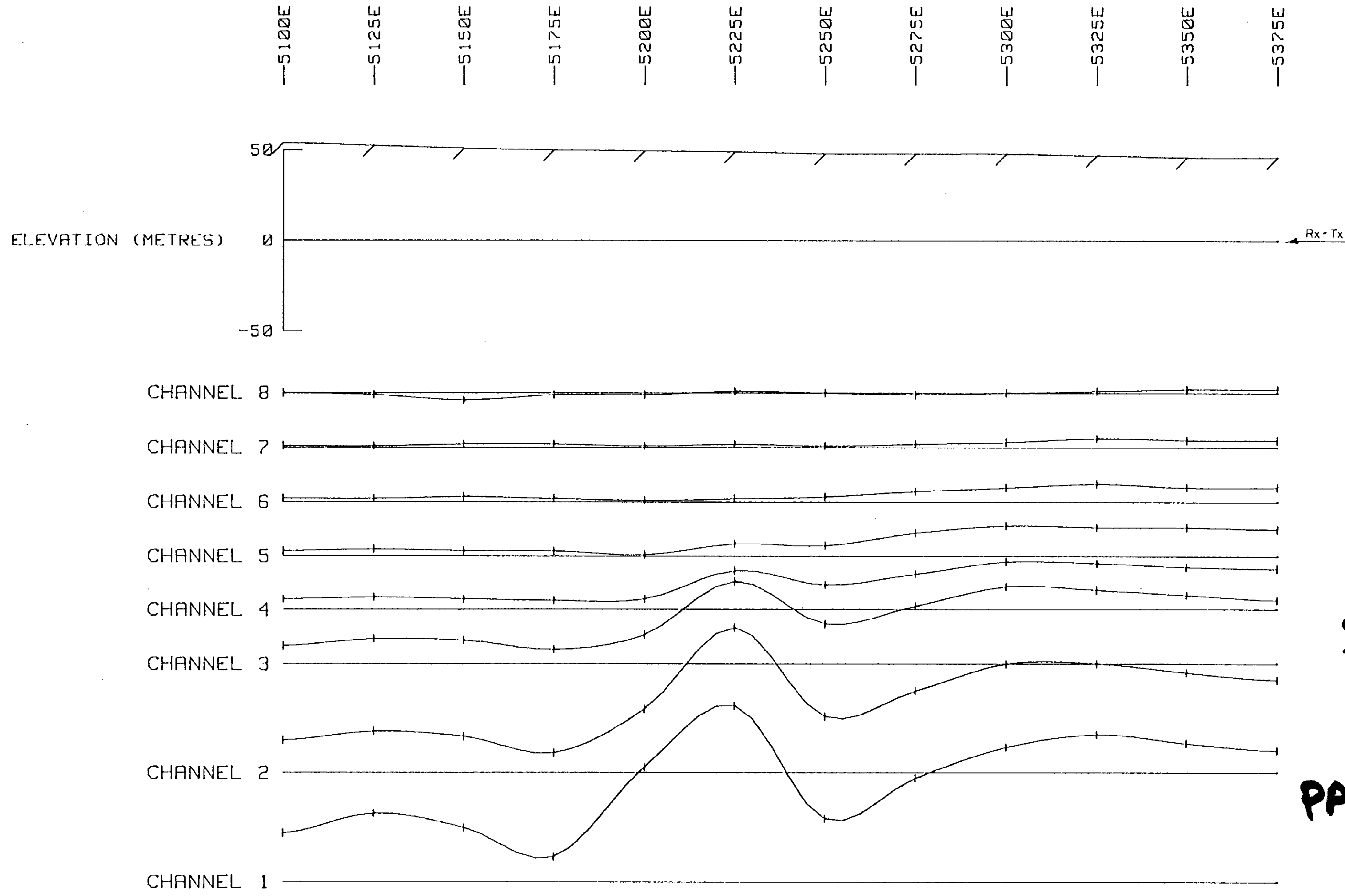
INSTRUMENT: CRONE P.E.M.  
SEPARATION: 75 METRES

To accompany Geophysical Report on the Discovery Grid

**CORDILLERAN ENGINEERING**  
DISCOVERY GRID  
HORIZONTAL LOOP SURVEY  
LINE 11800N

DATE: AUG/82

FIG.: 20

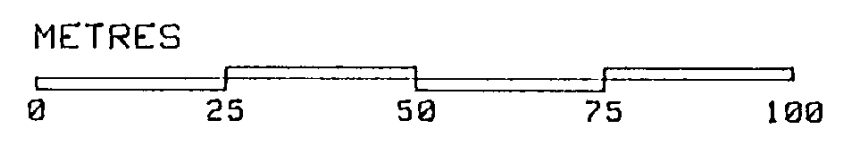


0  
20  
40  
60  
80  
100  
120  
SCALE  
P.P.K.

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**11,020**  
**PART 7 OF 8**  
KEY

Conductor axis:



**GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.**

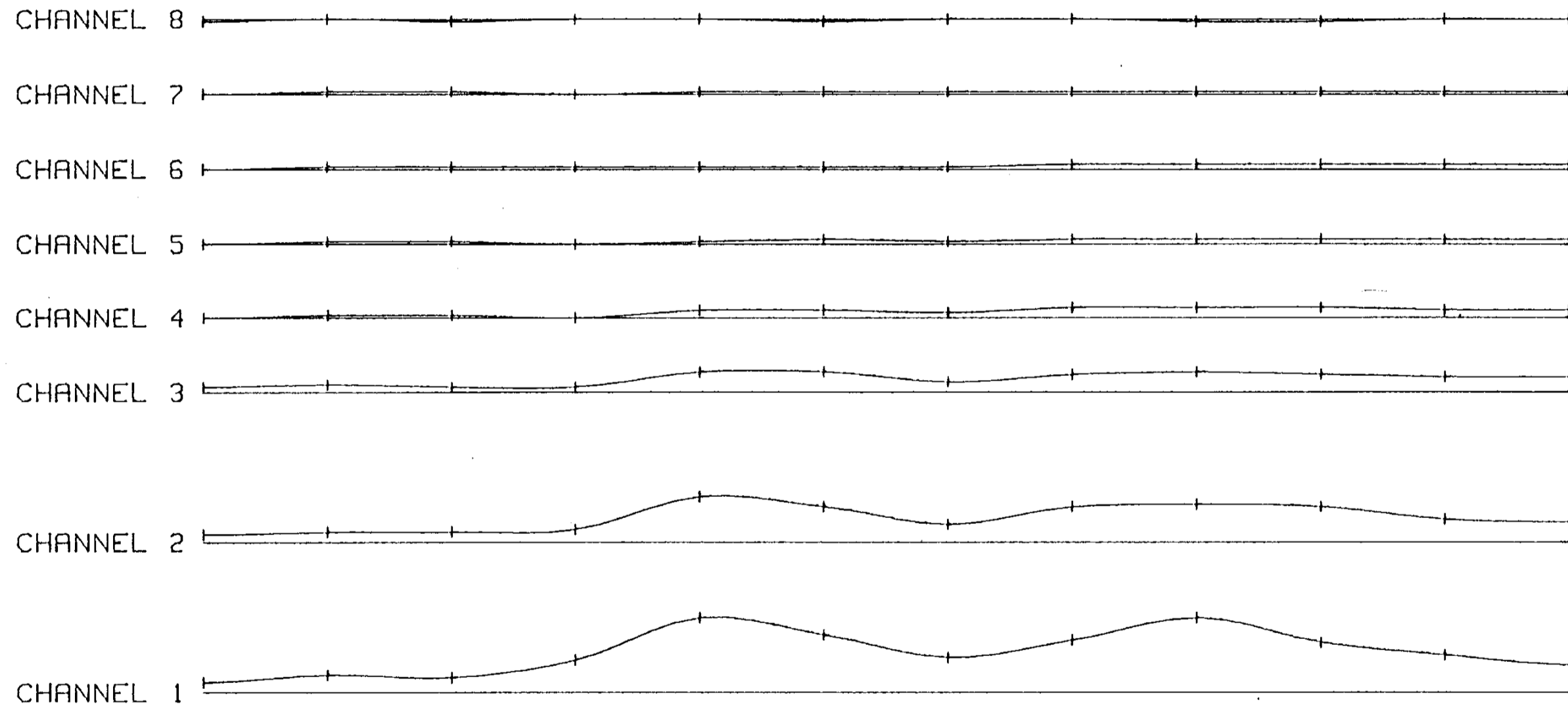
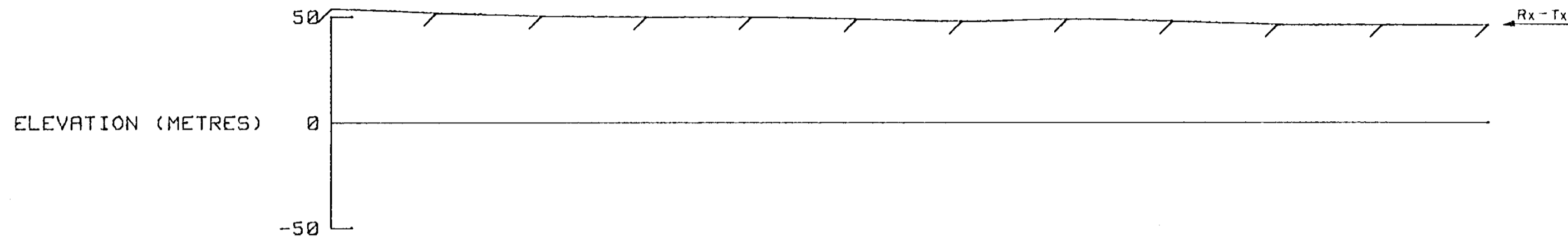
INSTRUMENT: CRONE P.E.M.  
SEPARATION: 50 METRES

To accompany Geophysical Report on the Discovery Grid

**CORDILLERAN ENGINEERING  
DISCOVERY GRID  
HORIZONTAL LOOP SURVEY  
LINE 11800N**

DATE: AUG/82	FIG.: 21
--------------	----------

—5113E —5138E —5163E —5188E —5213E —5238E —5263E —5288E —5313E —5338E —5363E —5388E

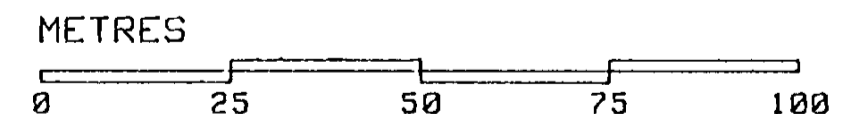


0  
20  
40  
60  
80  
100  
120  
SCALE  
P.P.K.

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

11,020  
PART 7 OF 8  
KEY

Conductor axis:



GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

INSTRUMENT: CRONE P.E.M.  
SEPARATION: 25 METRES

To accompany Geophysical Report on the Discovery Grid

CORDILLERAN ENGINEERING  
DISCOVERY GRID  
HORIZONTAL LOOP SURVEY  
LINE 11800N

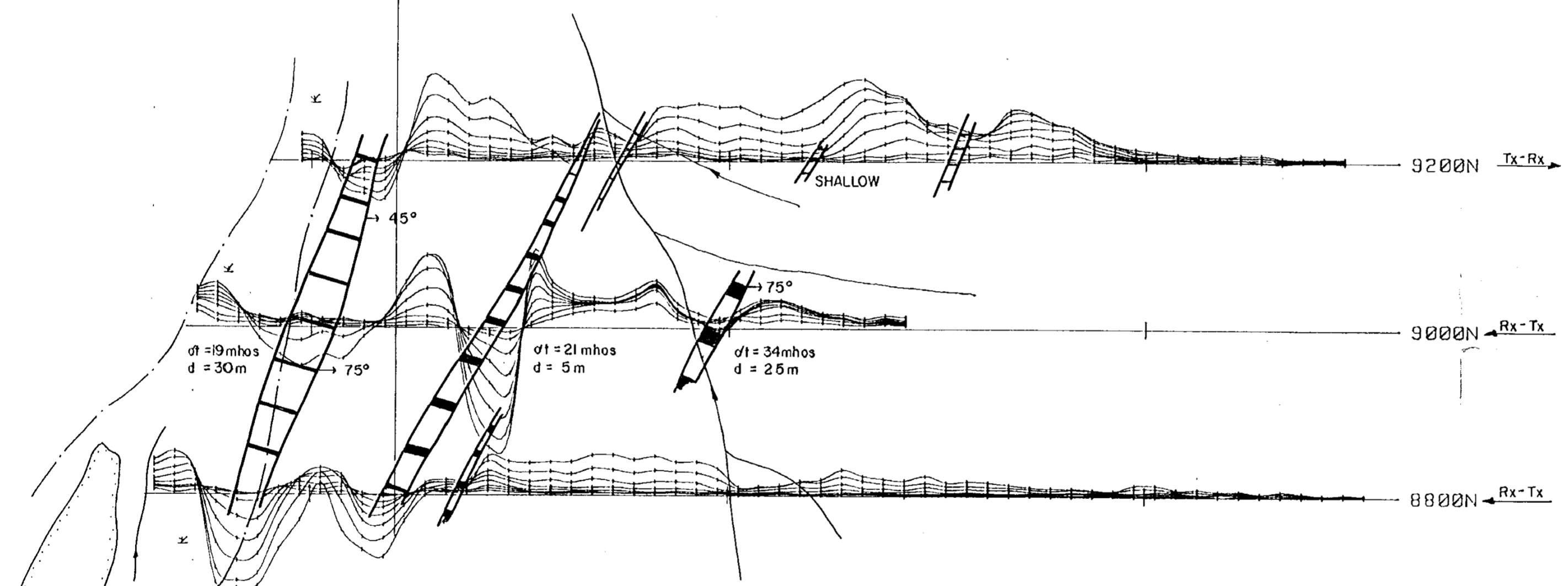
DATE: AUG/82

FIG.: 22





3600E 5000E 9800N



0  
100  
200  
300  
400  
500  
600  
SCALE  
P.P.K.

KEY  
Conductor axis:   
Claim boundary:   
Claim post:   
Fault:   
Geological contact:

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

11,020  
PART 7 OF 8

METRES  
0 50 100 150 200 250 300 350 400

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.



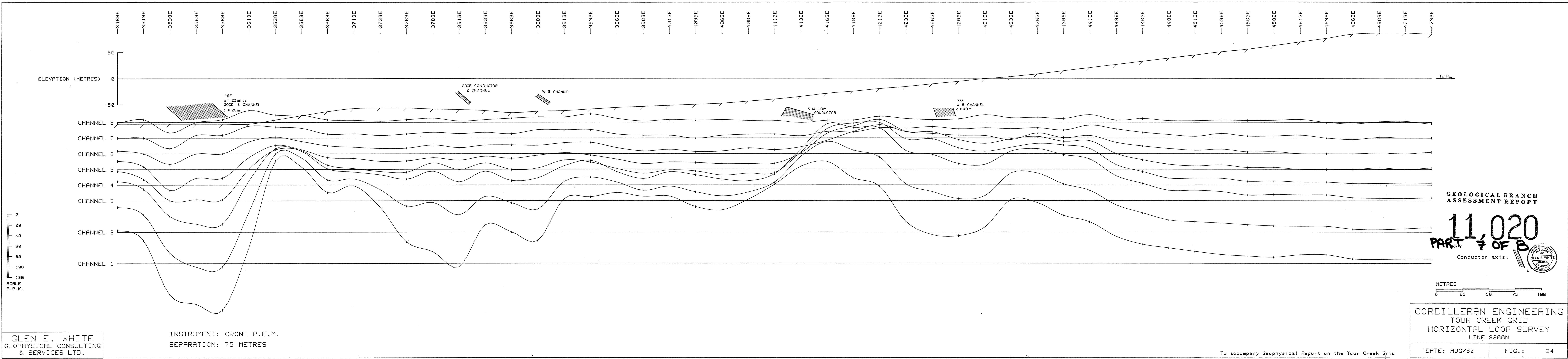
INSTRUMENT CRONE P.E.M.

CORDILLERAN ENGINEERING  
TOUR GRID  
HORIZONTAL LOOP SURVEY  
SEPARATION: 75 METRES

To accompany Geophysical Report on the Tour Grid


DATE: AUG/82

FIG.: 23



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

**11,020**  
PART 7 OF 8  
KEY

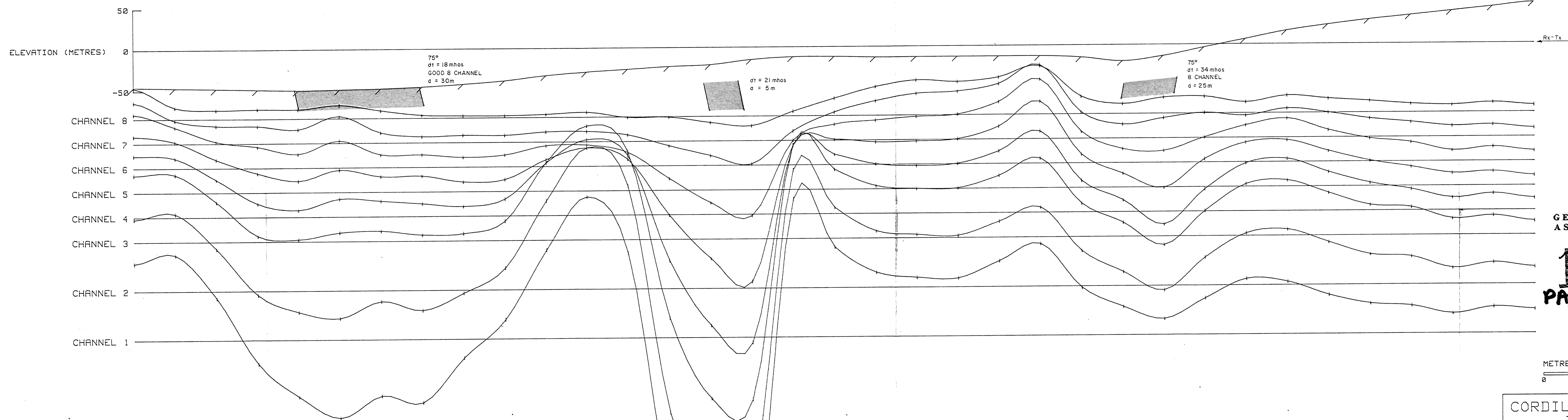
CONDUCTOR AXIS: 

PROFESSOR  
GLEN E. WHITE  
BRITISH  
COLUMBIA  
ENGINEER

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

CORDILLERAN ENGINEERING  
TOUR CREEK GRID  
HORIZONTAL LOOP SURVEY  
LINE 9200N

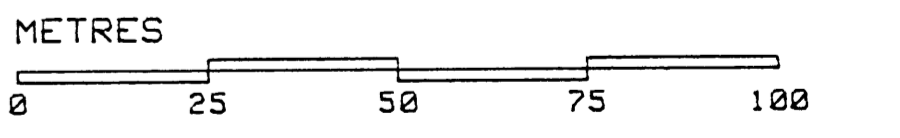
—3363E —3388E —3413E —3438E —3463E —3488E —3513E —3538E —3563E —3588E —3613E —3638E —3663E —3688E —3713E —3738E —3763E —3788E —3813E —3838E —3863E —3888E —3913E —3938E —3963E —3988E —4013E —4038E —4063E —4088E —4113E —4138E —4163E —4188E —4213E



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**11,020**  
**PART 7 OF 8**

Conductor axis: |



**GLEN E. WHITE**  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

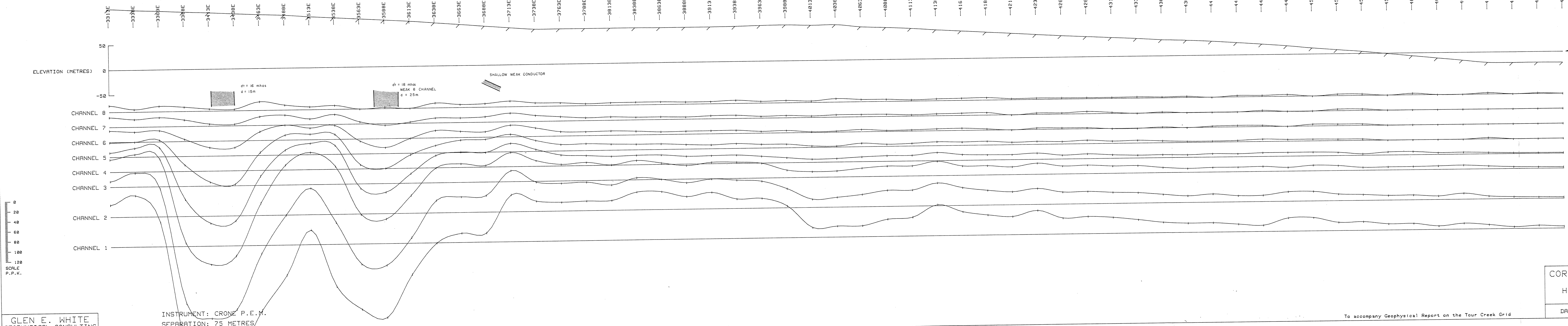
INSTRUMENT: CRONE P.E.M.  
SEPARATION: 75 METRES

To accompany Geophysical Report on the Tour Creek Grid

**CORDILLERAN, ENGINEERING**  
TOUR CREEK GRID  
HORIZONTAL LOOP SURVEY  
LINE 9000N

DATE: AUG/82

FIG.: 25



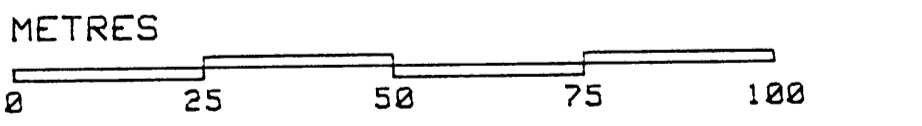
GLEN E. WHITE  
GEOPHYSICAL CONSULTING

INSTRUMENT: CRONE P.E.M.  
SEPARATION: 75 METRES

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

11,020  
PART 7 OF 8  
KEY

Conductor axis:



CORDILLERAN ENGINEERING  
TOUR CREEK GRID  
HORIZONTAL LOOP SURVEY  
LINE 8800N

DATE: AUG/82      FIG.: 26

To accompany Geophysical Report on the Tour Creek Grid