RIO CANEX EXPLORATION LIMITED
GEOPHYSICAL REPORT
On A
VECTOR PULSE ELECTROMAGNETOMETER SURVEY

Lucky Joe Option, Dawson Mining District, Yukon Territory

Lat. 63°36'N Long. 139°31'W N.T.S. 115 O/11, 12

AUTHORS: E. Trent Pezzot, B.Sc., Geophysicist

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

DATE OF WORK: May 28 to June 4, 1980

DATE OF REPORT: July 16, 1980

090683

This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of

$ 4,800.00

Resident Geologist or
Resident Mining Engineer

Considered as representation work under Section 53 (4) Yukon Quartz Mining Act.

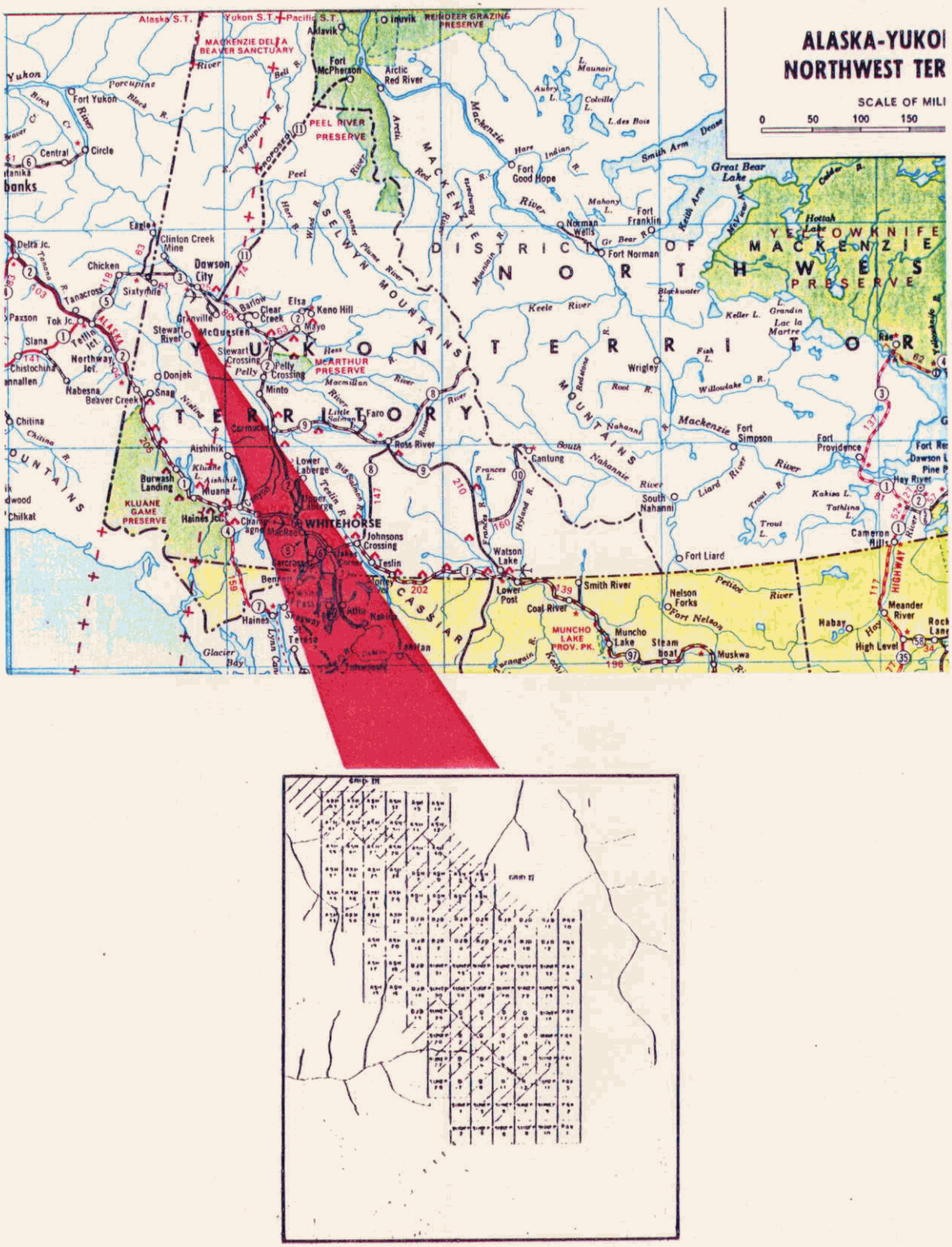
B.R. BAXTER
Supervising Mining Recorder

Commissioner of Yukon Territory

CONTENTS

PAGE

ILLUSTRATIONS



RIO CANEX EXPLORATION LIMITED
— LUCKY JOE CLAIMS —

LOCATION AND CLAIMS MAP

Glen E. White
geophysical consulting
services ltd.

FIG. 1

INTRODUCTION

In May and June 1980, Glen E. White Geophysical Consulting & Services Ltd. conducted 6.7 km of double coverage vector pulse electromagnetometer (VPEM) survey over Rio Canex Exploration Limited's Lucky Joe Option in the west central Yukon Territory. The purpose of the survey was firstly to determine if the VPEM system could be used as an effective mapping tool of a biotite - muscovite schist unit and secondly to locate and delineate any anomalously conductive subsections of this unit.

PROPERTY

The property referred to as the Lucky Joe Option consists of 117 contiguous 'B', 'Ash', 'Sunep', 'BJB' and 'Pax' mineral claims. In 1975, the 16 'B' claims were optioned by Rio Canex from Silver Standard Mines Ltd. and American Smelting and Refining Company. Following preliminary geochemical and geological surveys, an additional 101 claims were staked peripheral to the 'B' claims to arrive at the present claim block configuration.

LOCATION AND ACCESS

The claim block is located in west central Yukon Territory, approximately 618 km south of Dawson City. The centre of the property is at Latitude 63°36'N and Longitude 139°31'W (Figure 1). Currently the property is accessible only by helicopter although a 36 km long unimproved cat trail which leads from the mouth of Quartz Creek to the centre of the property exists and could be improved to allow access by tracked vehicle. The nearest helicopter is a Bell 206B operated by Trans North Turbo Air out of their permanent base at Dawson City.

TOPOGRAPHY AND VEGETATION

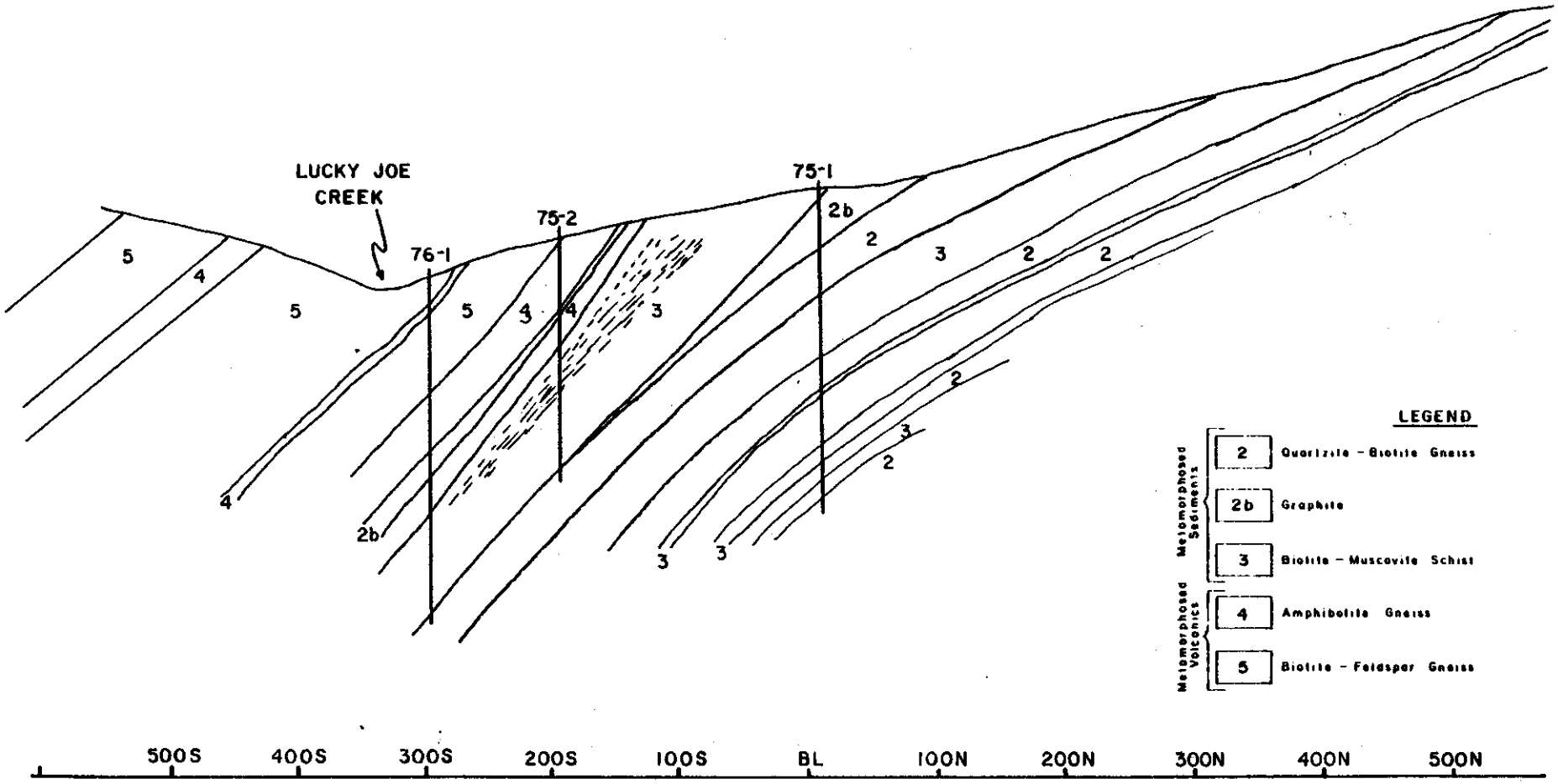
The Lucky Joe Option lies within the Yukon plateau, an uplifted peneplain with an average elevation of 1400 m (4600 feet) above sea level. The area has not been glaciated and the drainage pattern is characterized by "V" shaped valleys and a complete absence of lakes. The ground is permanently frozen, with a thin active layer present only on the south facing slopes.

Vegetation consists of black spruce in the valleys thinning to buck brush and alder on the slopes.

GENERAL GEOLOGY

The region was mapped at a scale of approximately one inch to four miles (1:125,000) by H. S. Bostock of the Geological Survey of Canada in 1934 and 1935. (G.S.C. Map 711A, 1942). Bostock shows the property to lie within a north-south trending belt of Pre-Cambrian Yukon Group gneisses and schists flanked to the east and west by gneissic granite.

The exploration prospect of the Lucky Joe Option is described as a metamorphosed synsedimentary copper deposit and is attractive because the mode of occurance and geological setting is very similar to that which is generally associated with the copper deposits of the Mombezhi Dome in Zambia. Work to date has located copper mineralization hosted by a particular mus covite schist unit which is the stratigraphically upper zone of a metamorphosed sedimentary sequence in contact with metamorphosed volcanic rocks. The muscovite schist unit is also bordered above and below by relatively thin and inconsistent graphitic horizons. A geological cross-section based on drill and surface geological mapping across line 00 is shown as Plate 1.



RIO CANEX EXPLORATION LIMITED
— LUCKY JOE CLAIMS —

Glen E. White geophysical consulting services ltd.

GEOLOGICAL CROSS-SECTION — LINE 00E —

Plate I

PREVIOUS WORK

In 1970 a regional silt sampling program was conducted by Silver Standard Mines which detected an area of high copper values. The area was secured by a block of 154 full size quartz claims. Followup soil sampling was carried out on two small grids on the property. Encouraging results warranted trenching on one anomaly which revealed minor chalcopyrite disseminated in schistose rock. In 1971 three short holes were drilled but all had to be abandoned due to water loss and caving ground. Two of these holes bottomed in 0.37% copper in schists.

In 1975 the 16 'B' claims were optioned by Rio Canex Exploration Limited. That same year Rio Canex undertook an initial phase exploration program consisting of geological mapping, geochemical sampling, magnetometer surveying and induced polarization surveying. Encouraging results prompted a second stage of two diamond drill holes.

The 1976 program consisted of 1190 meters of drilling in five holes and showed a copper grade trend existed, increasing grades to the north-east.

In 1977 diamond drilling was discontinued to allow for a further evaluation of the remaining Lucky Joe claim block through geological mapping, soil geochemistry and geophysical surveys.

Work to date has shown that a unique and singular exploration technique, exclusive of diamond drilling, is unavailable in this geological environment and that a combination of geology, geochemistry and geophysics is necessary to accurately locate the favourable copper mineralized muscovite

schist. An improve ment in the copper grade, unless reflected as massive sulphides or more practically as a higher percentage of disseminated sulphides than currently recognized can only be indicated directly by diamond drilling.

Poor outcrop exposure and strong leaching inhibit geological mapping as a unique exploration tool to precisely locate the favourable muscovite schist unit. Broad dispersion and downslope migration of anomalous copper values in soils limits the use of geochemistry.

The geophysical methods tested also have certain shortcomings. Magnetics is capable of mapping a conformable horizon which overlaps the target unit but aeromagnetics indicate this marker horizon may not be uniformally present over the entire claims area. Induced polarization is capable of detecting increased sulphide content within the stratographic sequence but is hampered in resolving the location of the copper-bearing sulphides because of strong surface leaching and generally lower total sulphide content within the unit. The Max-Min electromagnetic technique similarly lacks resolution due to a near surface alteration zone and less than massive mineralization within the favourable schist unit. Conductive zones are observed but appear related to graphitic and stringer or massive pyrite, pyrrhotite lenses in units below the host rocks.

VECTOR PULSE ELECTROMAGNETOMETER SURVEY

The pulse electromagnetometer system is a time domain E.M. system which can be used in the borehole mode, standard horizontal loop mode or deep penetrating vector mode.

The primary field for the horizontal loop survey is obtained from a transmit loop 9 meters in diameter laid out horizontally on the ground and energized by a pulse of 20 amps at 24 volts with an on-off time of 10.8 ms. The receiver coil is generally spaced 25 - 100 m from the transmitter loop. Both are moved simultaneously from station to station. The secondary field signal from the reciever coil is sampled and averaged for 11 seconds and then stored for readout. Eight samples of the secondary field are obtained with increasing window widths during the primary field off time. Time synchronization is by radio link or cable.

The eight channels of secondary field information are equivalent to a wide spectrum of frequencies from approximately 2KH$_z$ to 16H$_z$ which allows for determination of overburden effects and penetration of conductive overburden. Since the time derivative of the secondary field is measured directly during the primary field off time, the pulse method is relatively free of geometrical restrictions, such as topography interference and coil alignment.

The primary field for the vector EM technique is obtained from a LSL (Large Scale Loop) of 150 m (492 ft.) per side which is energized with a current of 25 amps at 24 volts. A resultant vector can be obtained by vector addition of the horizontal and vertical components of the secondary field. A right angle to this resultant points to the eddy current position. See Appendix for diagrams. Additionally, detailed conductor information can be obtained from the analysis of the individual component information.

DISCUSSION OF RESULTS

Four transmission loops and 6.7 km of double coverage VPEM surveying was conducted on Grid 1 of the Rio Canex Exploration Limited's Lucky Joe Option. The survey was undertaken as a test to determine the effectiveness of the VPEM technique as a mapping tool of a copper-bearing biotite-muscovite schist unit. Geological cross-sections based on diamond drill hole and surface geology information allowed for a direct correlation between the VPEM data and the stratigraphic column on lines 00, 250W and 500W. Lines were surveyed west of line 500W to locate the host horizon and determine if an increase in the conductance of the unit exists, possibly resulting from increased mineralization.

Two transmission loops (A and B) were set up to test the area of known geology. The primary field generated by the southern loop B, intersects the geological sequence at a low angle (relative to the contact between the different rock units) resulting in a weak secondary field being generated. The observed responses therefore reflect near surface (less than 50 meters) conductive zones. The northern loop A generates a primary field which intersects the geological sequence at near perpendicular angles. The secondary currents and fields generated are much stronger than those originating from the southern loop B, and as such can reflect much deeper conductive zones.

Lines 00 (Figures 26 to 29), 250W (Figures 34 to 37) and 500W (Figures 41 to 44) have geological cross-sections superimposed on the component profiles to allow for easy correlation between the observed responses and the known geology. Meaningful data is observed in the first three channels recorded (higher frequency). The later time

channels, 4 to 8, record secondary field values considered to be within the electromagnetic noise level of the area. The graphitic zones bordering the biotite-muscovite schist unit are reflected as higher spatial frequency responses from both transmission loops and can be reliably located between 25 and 50 meters depth across all lines surveyed. On the loop A profiles, high spatial frequency (one or two stations) responses can be correlated to surface features (geological contacts or topographic features such as streams) and are superimposed on the major responses, originating from depths varying between 100 meters and 200 meters. Depth calculations based on model studies published by Crone Geophysics, indicate the major response originates from various positions within the muscovite schist unit. On line 00 the response originates from the lower section of the host unit. Lines 250W and 500W show the response originating from the upper part of the unit, near the metamorphosed sediments/metamorphosed volcanic contact.

Identification of characteristic VPEM responses observed on the control lines 00, 250W and 500W were applied to the remaining lines surveyed (250E, 200W, 400W, 600W, 750W and 1000W). Depth calculations and a plan map showing the surface topography were used in conjunction to yield the interpreted elevation of the metamorphosed sediment/metamorphosed volcanic contact (in feet above mean sea level) as illustrated in Figure 2. The biotite-muscovite schist unit dips approximately 45°SW on lines 250E to 500W. West of the line 500W, the unit shows a more shallow dip (possibly resulting from a migration of the mapped contact towards the axis of a regional anti-form). This shallower dip interpretation is supported by a measureable increase in

the horizontal component of the secondary field on the western lines resulting from an increased overall conductance of the half-space as the biotite-muscovite schist unit flattens out. The unit also appears to be gradually plunging to depth along strike to the north-west.

None of the lines surveyed display any indications of the presence of any noticeably higher conductive zones north-west of the drilled area. It is expected that any areas with enough sulphide content to form an economic deposit at the presently observed copper concentrations would be readily apparent on the VPEM data as a strong response into the later time channels.

A separate, near surface, conductive zone was observed on lines 250W, 400W and 500W near station 300S. The response originates from within the metamorphosed volcanic rock sequence and is likely a previously unmapped graphitic unit, not observable on the ground surface.

A probable fault zone is interpreted to run between line 1000W, station 225N to line 600W, station 75N, based on a channel one, one station spike response.

The vector focus technique was applied to the data and although it indicates the presence of a conductive zone at depth, the technique is not as definitive as the individual component data. The vector sections are presented as Figures 3 to 20 inclusive.

SUMMARY AND CONCLUSIONS

In May and June 1980, Glen E. White Geophysical Consulting & Services Ltd. conducted 6.7 km of vector pulse electromagnetometer survey over Rio Canex Exploration Ltd.'s Lucky Joe Option.

The VPEM technique has been shown to be an effective tool in locating and delineating a copper-bearing biotite muscovite schist unit proven by diamond drilling and was able to extend coverage of this target horizon 500 m west of the last drilling location. The VPEM survey indicates the unit shallows in dip and likely begins a gradual plunge to depth north-west of line 500W but is considered open in this direction. No responses were observed along strike to indicate an increase in the conductivity of the target zone expected to accompany an increase in the sulphide content necessary to provide an economically viable deposit at presently observed copper concentrations.

Respectfully submitted,
GLEN E. WHITE GEOPHYSICAL
CONSULTING & SERVICES LTD.

E. Trent Pezzot, B.Sc.
Geophysicist

Glen E. White, P. Eng.
Consulting Geophysicist

COST BREAKDOWN

Personnel	Date Worked	Wages	Total
R. Paesler	May 28-June 4/80	$175/day	$1400.00
G. McKenzie	" "	125/day	1000.00
Instrument Lease @ $125/day			1000.00
Materials and Camping Gear			200.00
Computer Plotting, 18 loop lines @ $30/line			540.00
Drafting and Reproduction			650.00
Interpretation and Report			850.00
		Total	$5640.00

STATEMENT OF QUALIFICATIONS

Name:	PEZZOT, E. Trent
Profession:	Geophysicist - Geologist
Education:	University of British Columbia - B.Sc. - Honors Geophysics and Geology
Professional Associations:	Society of Exploration Geophysicists
Experience:	Three years undergraduate work in geology - Geological Survey of Canada, consultants.
	Three years Petroleum Geophysicist, Senior Grade, Amoco Canada Petroleum Co. Ltd.
	Two years consulting geophysicist, Consulting geologist - B. C., Alberta, Saskatchewan, N.W.T., Yukon, western U. S. A.

STATEMENT OF QUALIFICATIONS

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

PROFESSION: Geophysicist

EDUCATION: B.Sc. Geophysics - 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.

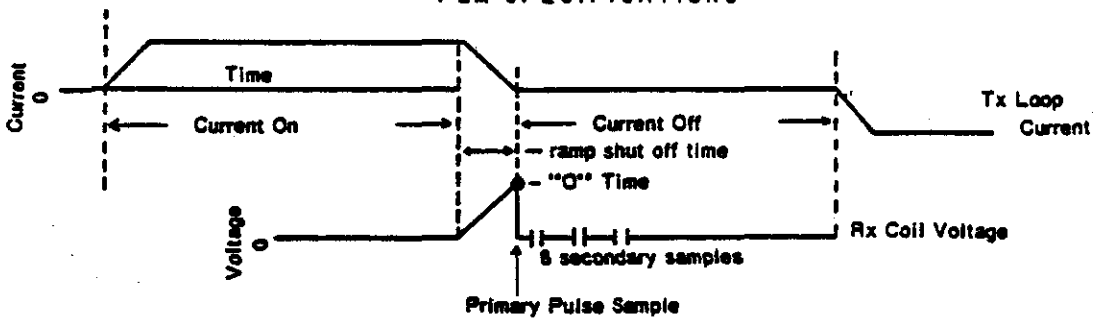
Two years Mining Geophysicist and supervisor Airborne and Ground Geophysical Divisions with Geo-X Surveys Ltd.

Two years Chief Geophysicist Tri-Con Exploration Surveys Ltd.

Nine years Consulting Geophysicist.

Active experience in all Geologic provinces of Canada.

PEM SPECIFICATIONS



Current Off time: 9.4 ms
Current on time: 10.8 ms
Current shut off (ramp) time: 1.4 ms
Sample times (zero to centre of sample): .15ms, .45ms, .85ms, 1.45ms, 2.45ms, 3.75ms, 5.85ms, 8.85ms.

Sample width: 100 μs
Zero time set at drop off point of primary pulse

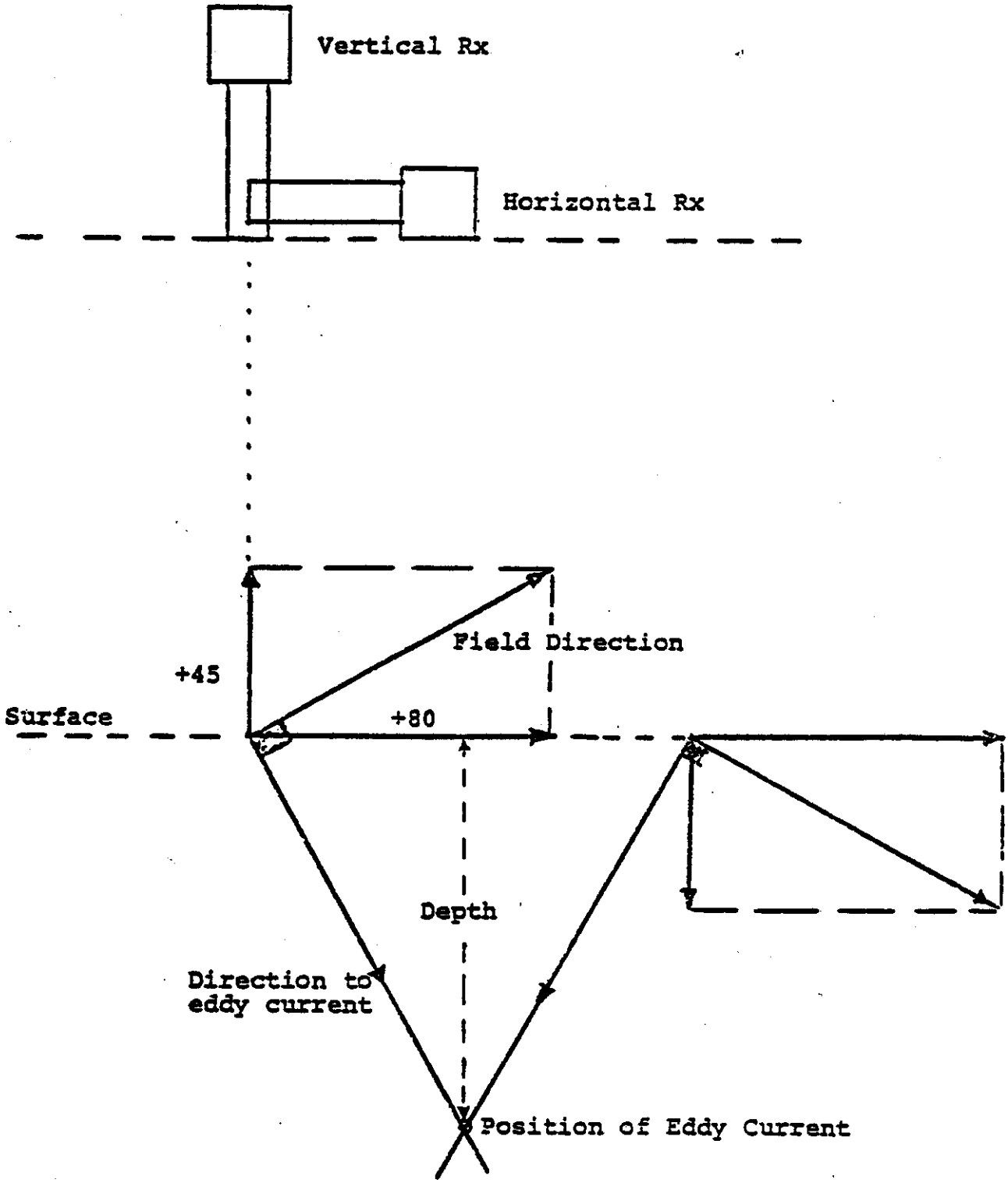
TRANSMITTER — Transmitter power and loop size may be increased to obtain increased penetration. Weight, portability and power capabilities of the control instrument are the limiting factors. The standard transmitter is designed to be carried by two men.

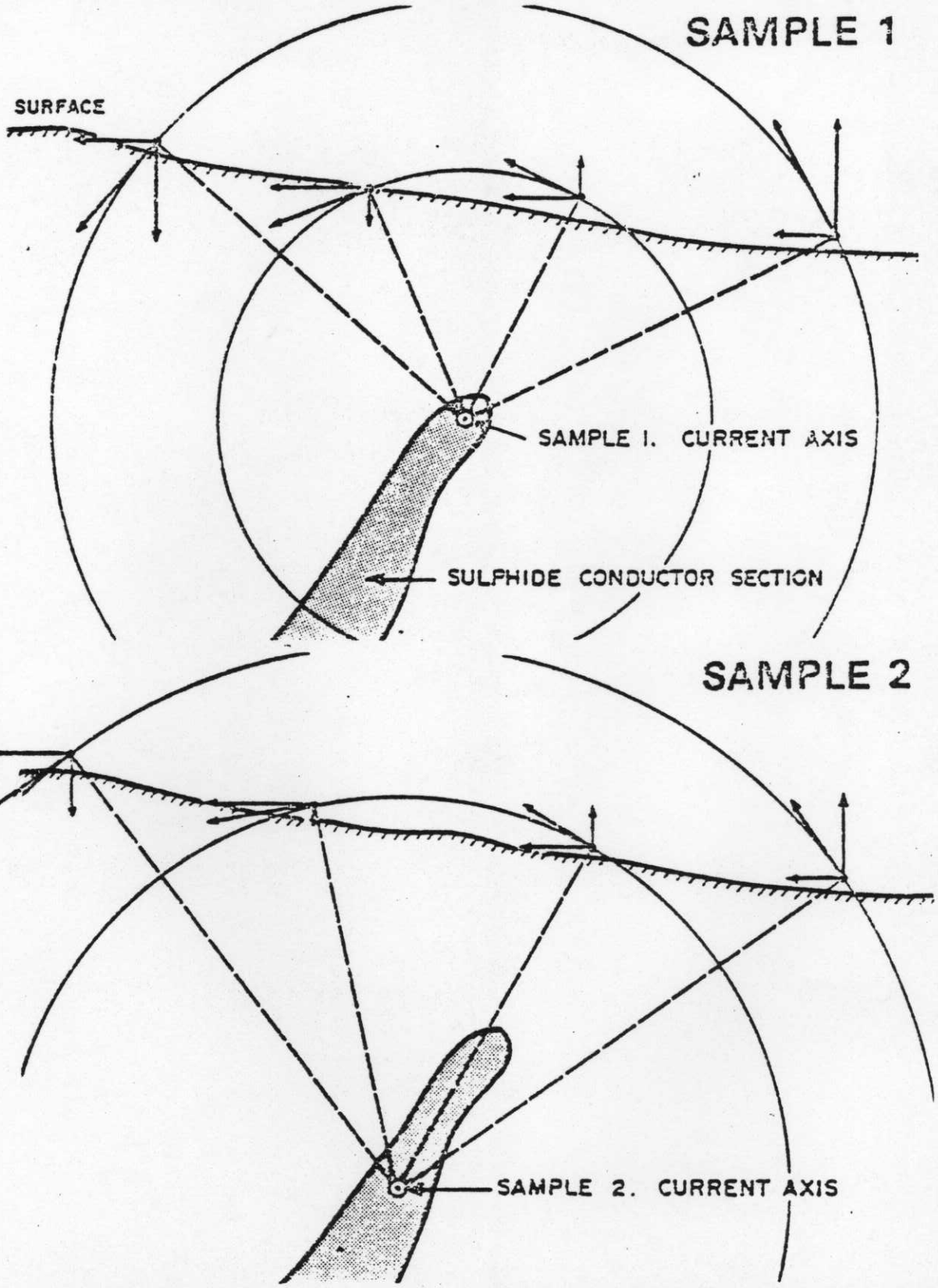
Loop diameter	— minimum 4 meters (13 feet)
Loop current	— 15 to 20 amps
Loop applied voltage	— 24 volts
Loop output	— minimum 4500 amps x meter ^{2}
Loop weight	— 11.8 kilos (26 lb)
Control unit weight	— 10 kilos (22 lb)
Control unit dimensions	— 20.5cm x 25.5cm x 38.5cm (8" x 10" x 14.5")
Battery supply weight	— 18.1 kilos (40 lb)
Battery supply	— 2 of 12 volt, 14 to 20 ampere hour

Timing control by radio synchronization

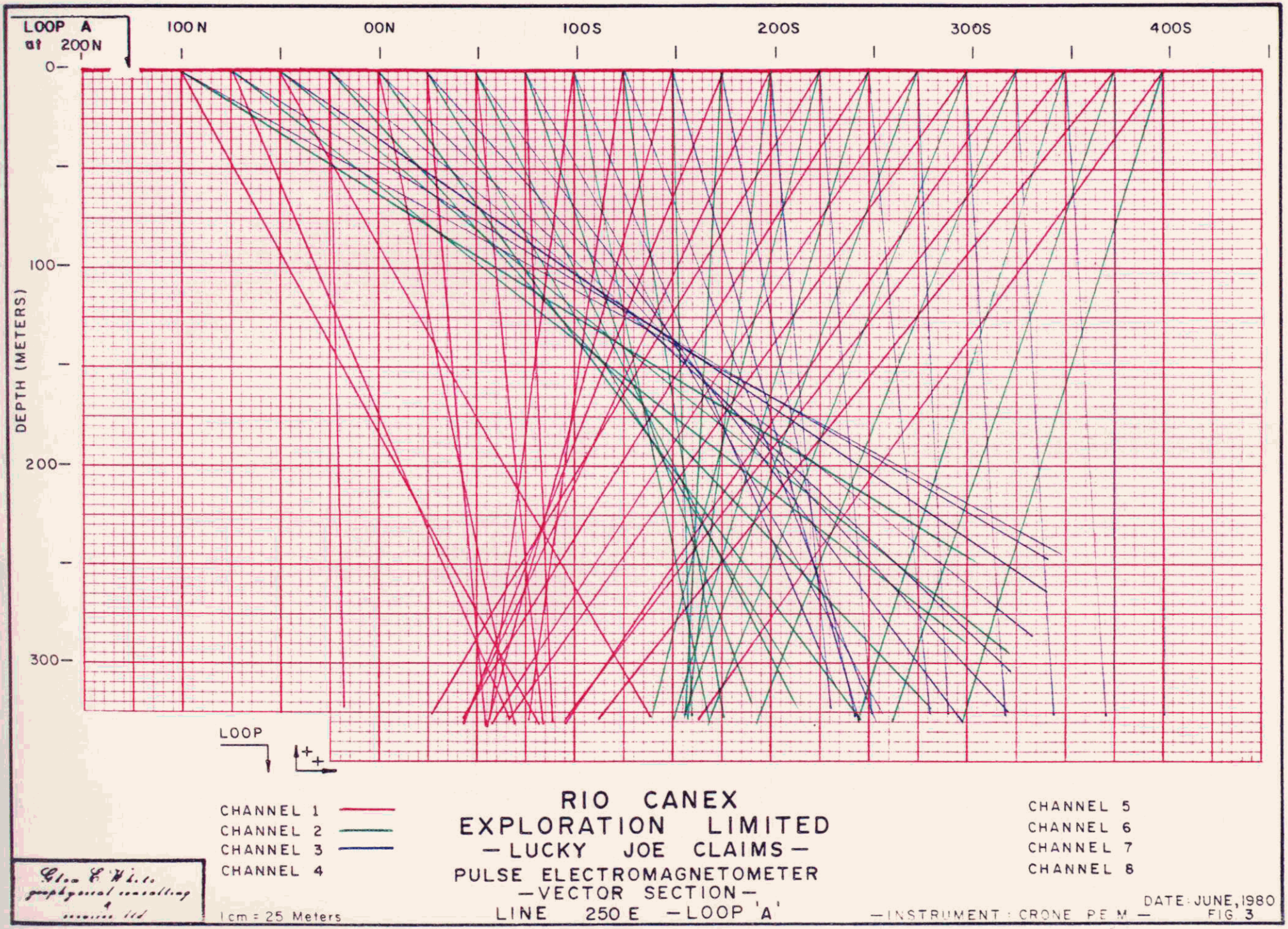
RECEIVER

- Receive coil dimensions: 55cm x 15cm (22" x 6")
- Receive coil weight: 4.5 kilos (10 lb)
- Preamplifier in coil
- Preamplifier batteries: 2 of 9 volt
- Receive coil tripod mounted
- Receiver measuring instrument dimensions: 28cm x 18cm x 21.5cm (11" x 7" x 9")
- Receiver measuring instrument weight: 6.3 kilos (14 lb)
- Timing control by radio synchronization
- Primary sample width: 100 μs
- Primary sample can be swept through primary pulse by means of a time calibrated pot
- Zero time set at primary pulse drop-off
- Secondary samples (eight of them) width: 100 μs
- Secondary samples time (zero to middle of sample): (1) .15ms (2) .45ms (3) .85ms (4) 1.45ms (5) 2.45ms (6) 3.75ms (7) 5.85ms (8) 8.85ms
- Automatic sampling for 5 seconds then all samples automatically stored
- Sample read out by means of meter
- Continuous sampling possible by switching function switch to "Continuous"
- Noise can be monitored by switching function switch to "Noise"
- Battery supply: 24 volt rechargeable, 2 of 12 volt Gel GC 12-15


Vertical Rx
Horizontal Rx
Field Direction
+45
Surface
+80
Depth
Direction to
eddy current
Position of Eddy Current



Location of the Current Path in the Conductor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DEPTH (METERS)
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CHANNEL 1
CHANNEL 2
CHANNEL 3
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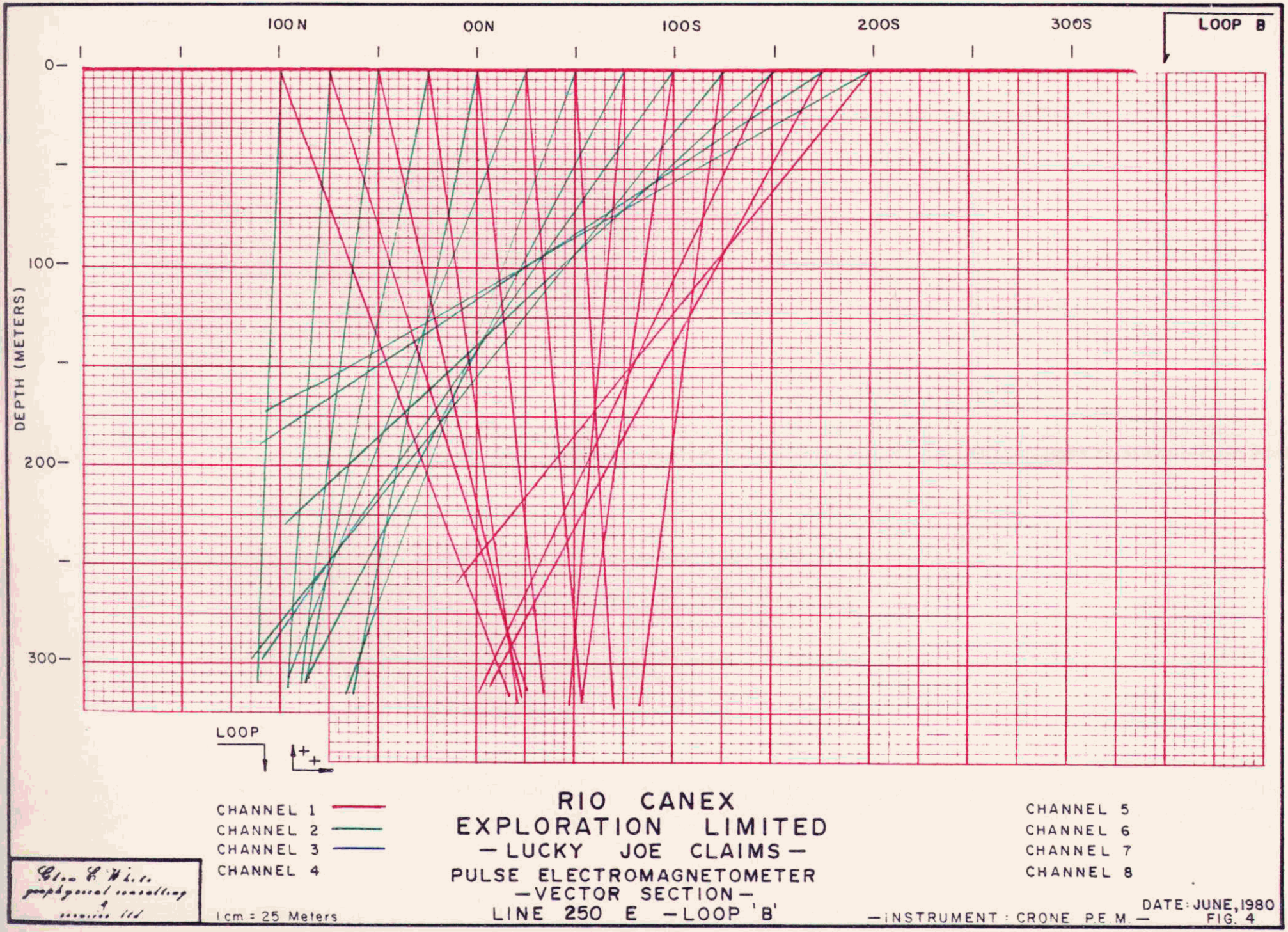
CHANNEL 8
RIO CANEX
EXPLORATION LIMITED
— LUCKY JOE CLAIMS —
PULSE ELECTROMAGNETOMETER
— VECTOR SECTION —
LINE 250 E — LOOP 'A'
1cm = 25 Meters
— INSTRUMENT : CRONE PEM —
DATE: JUNE, 1980
FIG 3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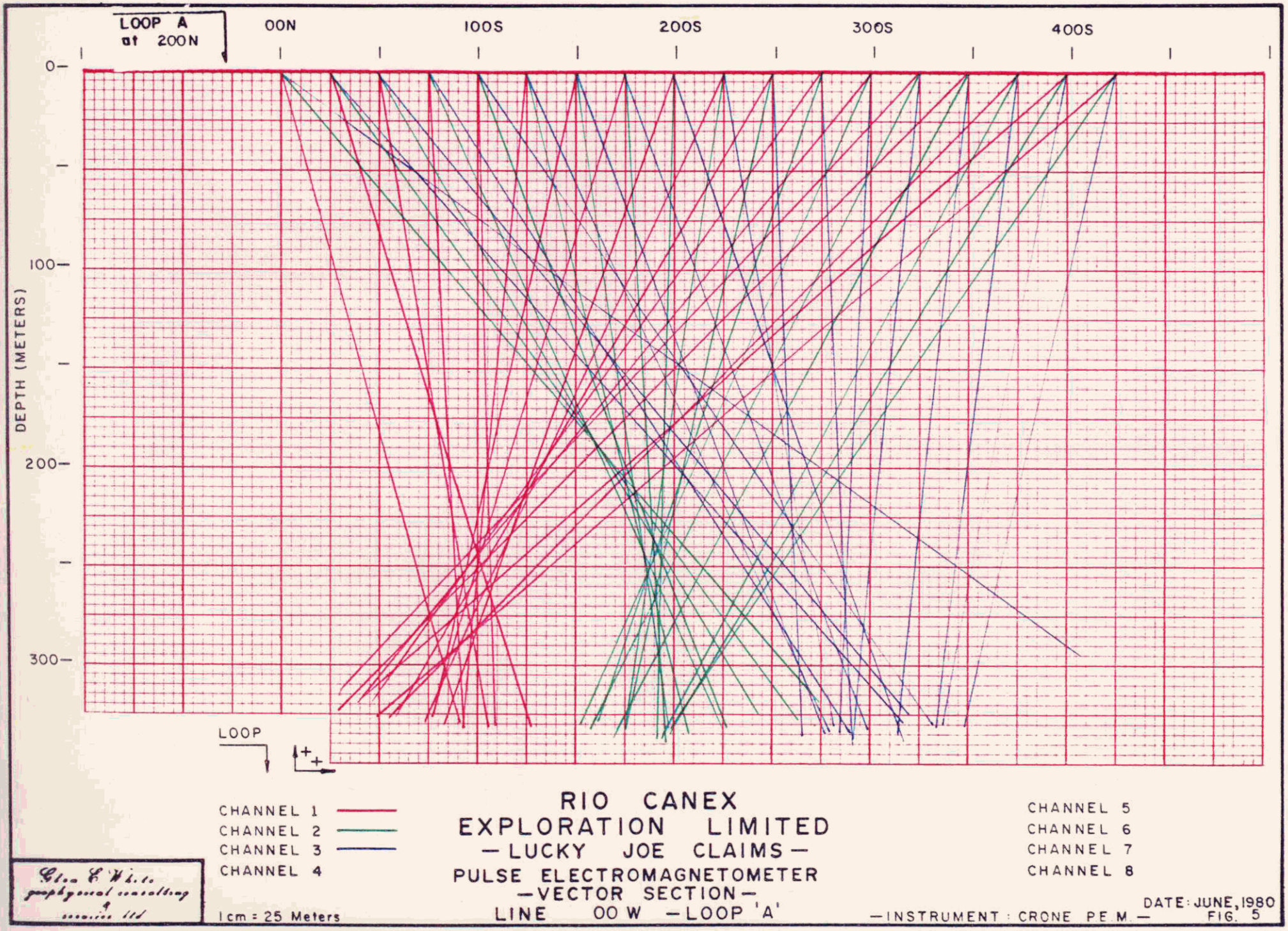
LINE 250 E — LOOP 'B'
1cm = 25 Meters
— INSTRUMENT : CRONE P.E.M. —
DATE: JUNE, 1980
FIG. 4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DEPTH (METERS)
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CHANNEL 8
RIO CANEX
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PULSE ELECTROMAGNETOMETER
— VECTOR SECTION —
LINE 00 W — LOOP 'A'
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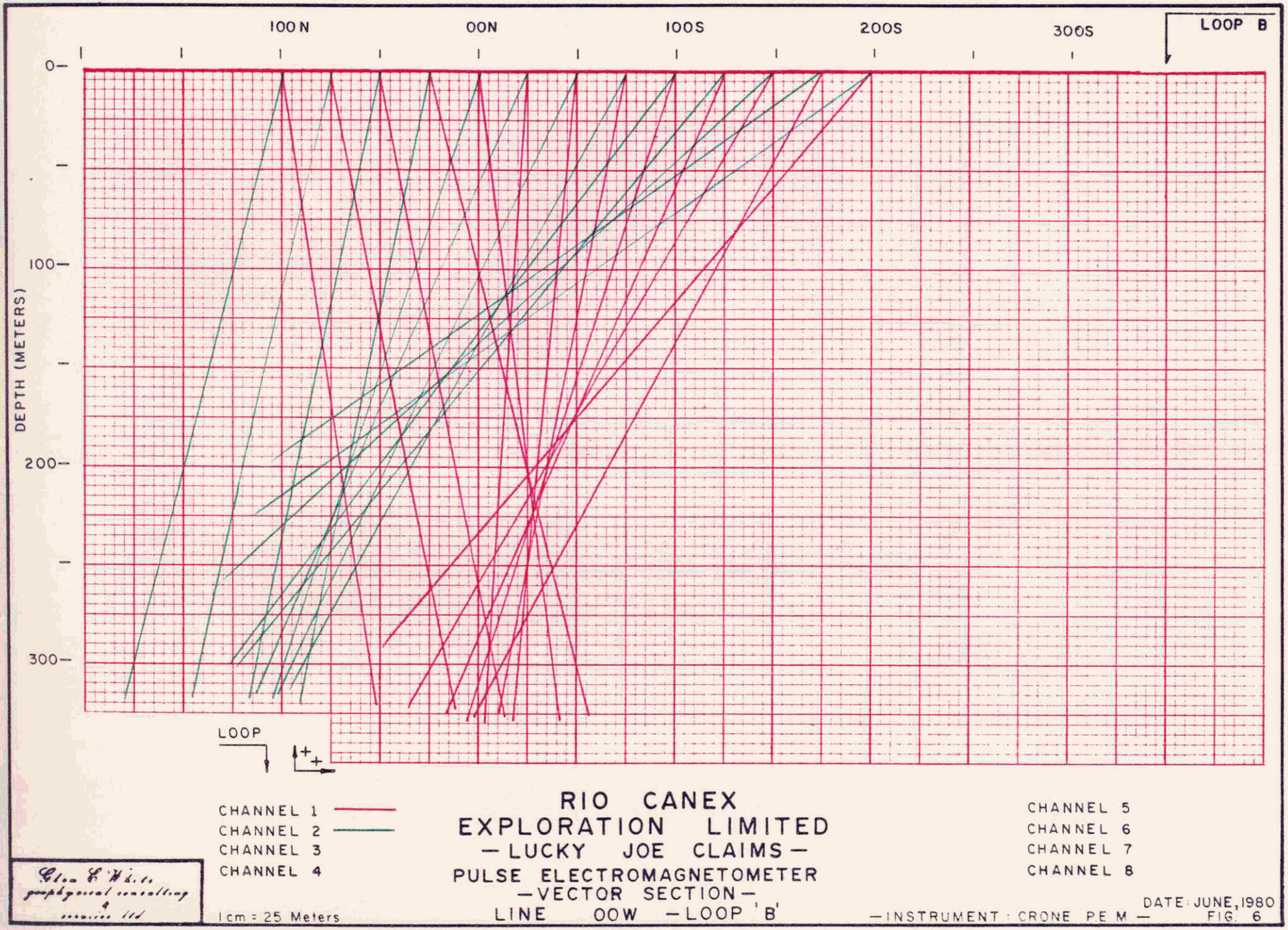
DATE: JUNE, 1980
FIG. 5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CHANNEL 1
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PULSE ELECTROMAGNETOMETER
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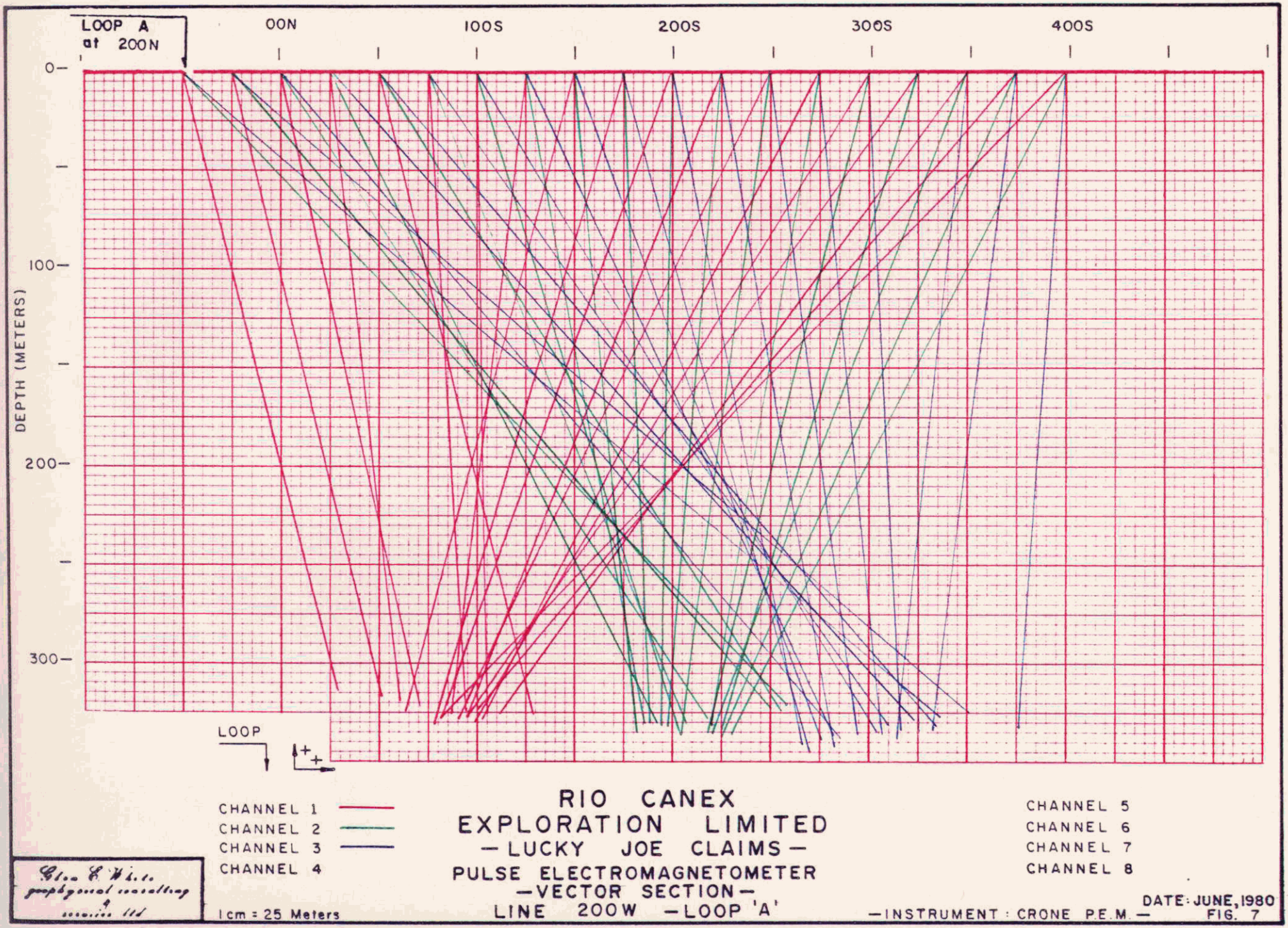
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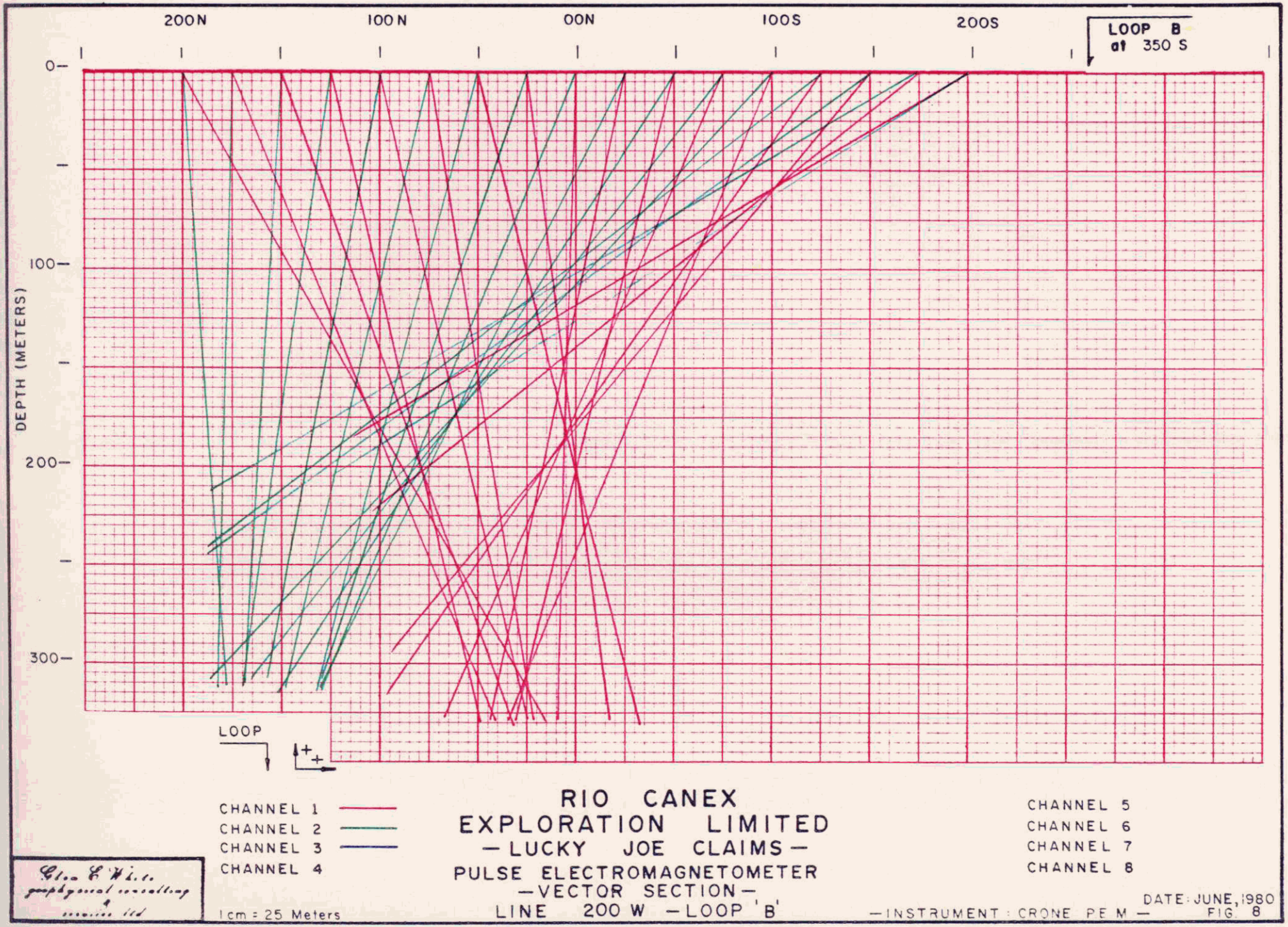
FIG. 7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CHANNEL 5
CHANNEL 6
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CHANNEL 8
RIO CANEX
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PULSE ELECTROMAGNETOMETER
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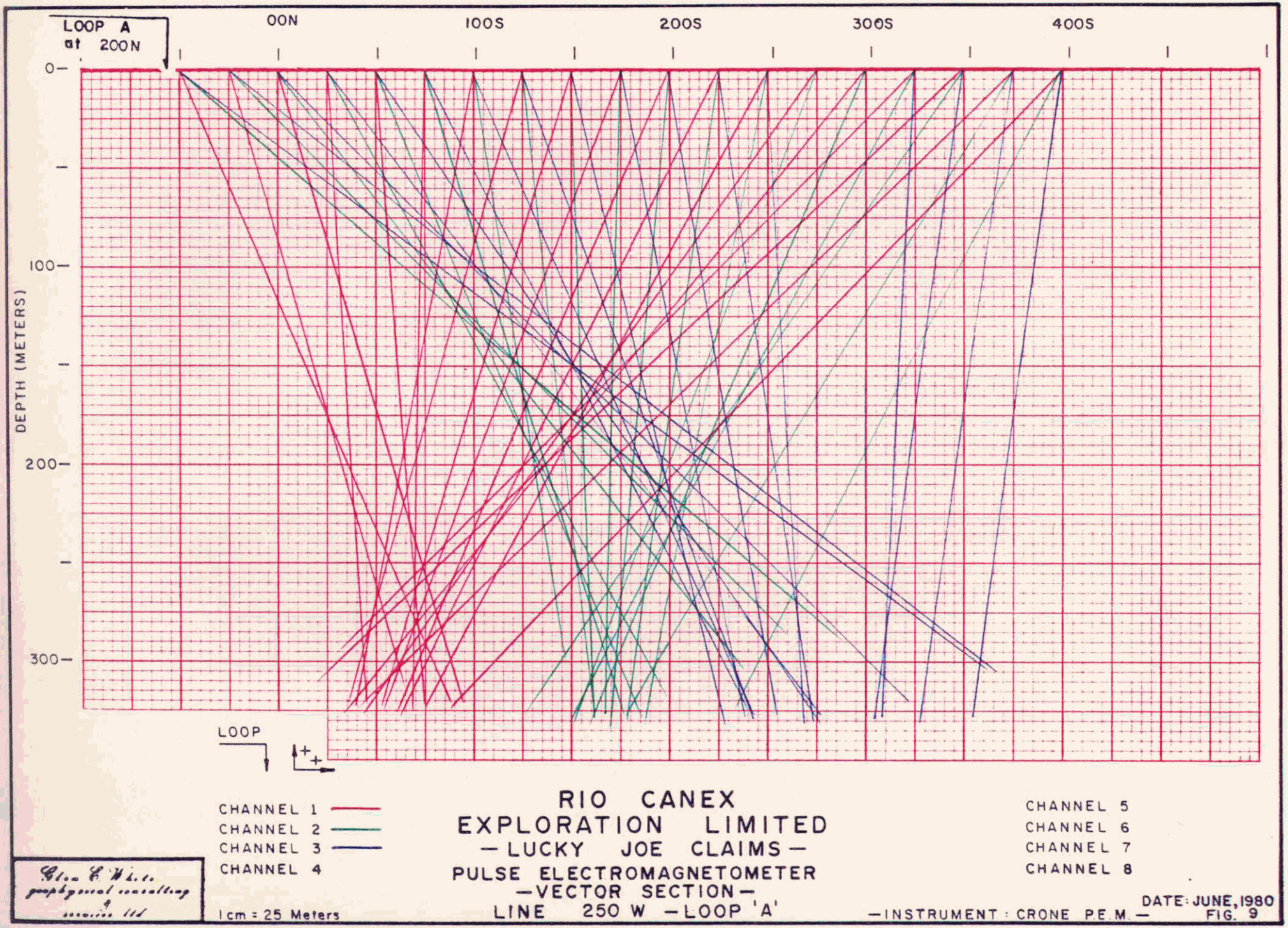
FIG. 8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300
DEPTH (METERS)
LOOP
CHANNEL 1
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CHANNEL 3
CHANNEL 4
CHANNEL 5
CHANNEL 6
CHANNEL 7
CHANNEL 8
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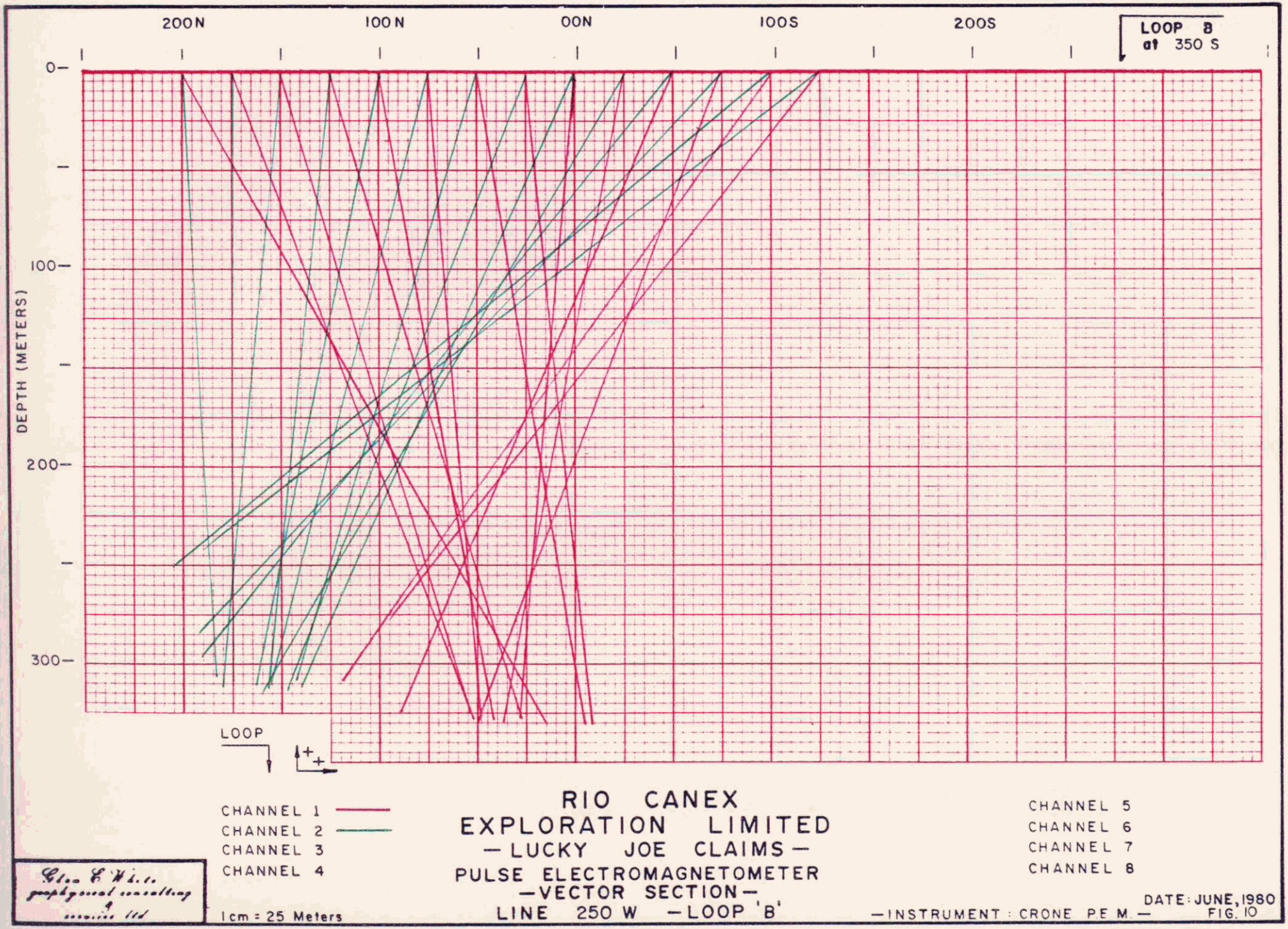
PULSE ELECTROMAGNETOMETER
— VECTOR SECTION —
LINE 250 W — LOOP 'A'
— INSTRUMENT : CRONE P.E.M. —
1 cm = 25 Meters
DATE: JUNE, 1980
FIG. 9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00N
100S
200S
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100
200
300
DEPTH (METERS)
LOOP
CHANNEL 1
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CHANNEL 3
CHANNEL 4
CHANNEL 5
CHANNEL 6
CHANNEL 7
CHANNEL 8
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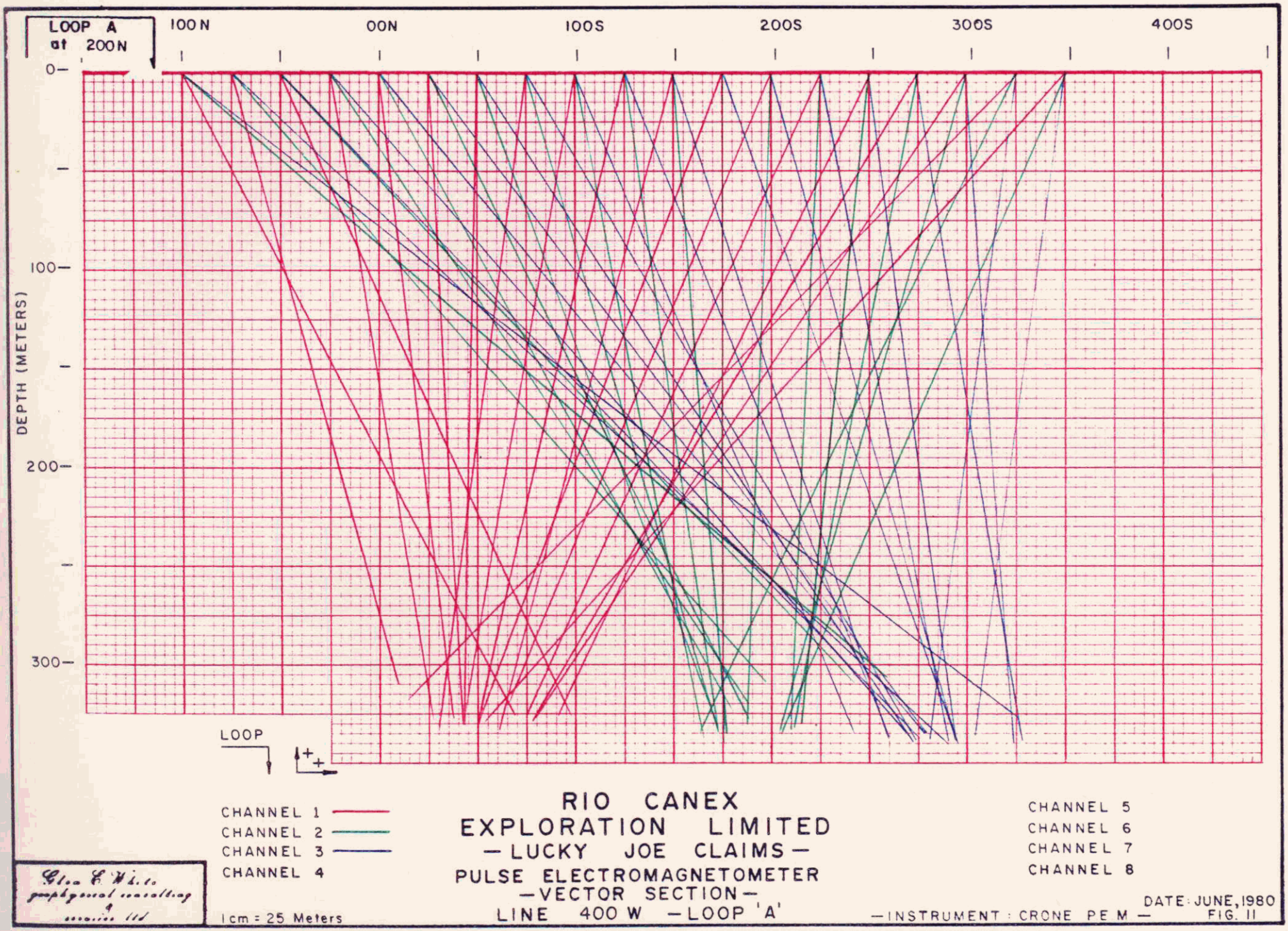
— VECTOR SECTION —
LINE 250 W — LOOP 'B'
— INSTRUMENT : CRONE P.E.M. —
1cm = 25 Meters
DATE: JUNE, 1980
FIG. 10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200S
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400S
0
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200
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DEPTH (METERS)
LOOP
CHANNEL 1
CHANNEL 2
CHANNEL 3
CHANNEL 4
CHANNEL 5
CHANNEL 6
CHANNEL 7
CHANNEL 8
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PULSE ELECTROMAGNETOMETER
— VECTOR SECTION —
LINE 400 W — LOOP 'A'
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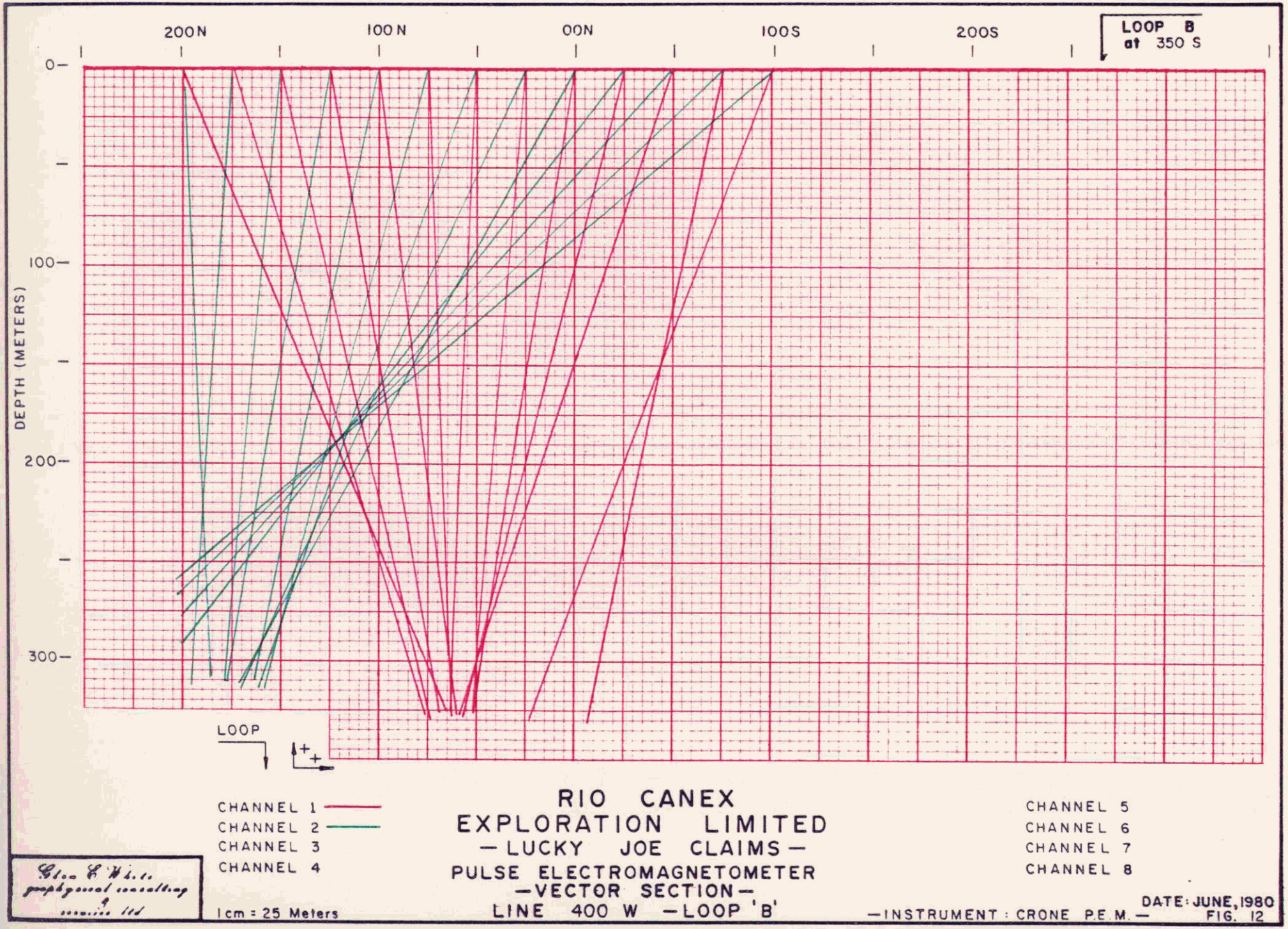
DATE: JUNE, 1980
FIG. II


200N
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00N
100S
200S
LOOP B
at 350 S
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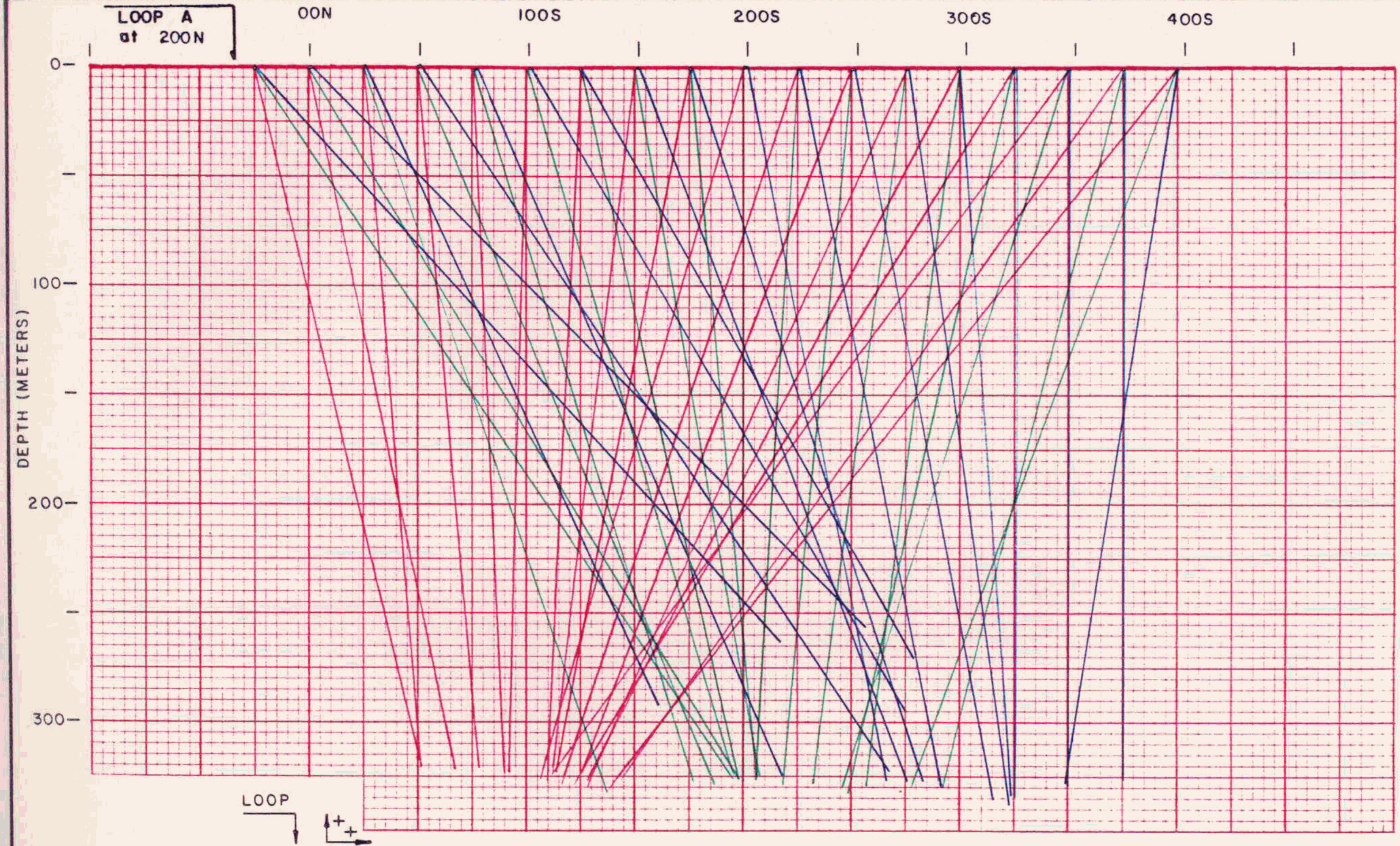
DEPTH (METERS)
LOOP
CHANNEL 1
CHANNEL 2
CHANNEL 3
CHANNEL 4
CHANNEL 5
CHANNEL 6
CHANNEL 7
CHANNEL 8
RIO CANEX
EXPLORATION LIMITED
— LUCKY JOE CLAIMS —
PULSE ELECTROMAGNETOMETER
— VECTOR SECTION —
LINE 400 W — LOOP 'B'
1cm = 25 Meters
— INSTRUMENT : CRONE P.E.M. —
DATE: JUNE, 1980
FIG. 12



CHANNEL 1
CHANNEL 2
CHANNEL 3
CHANNEL 4

RIO CANEX EXPLORATION LIMITED

— LUCKY JOE CLAIMS —

PULSE ELECTROMAGNETOMETER
— VECTOR SECTION —
LINE 500 W — LOOP 'A'

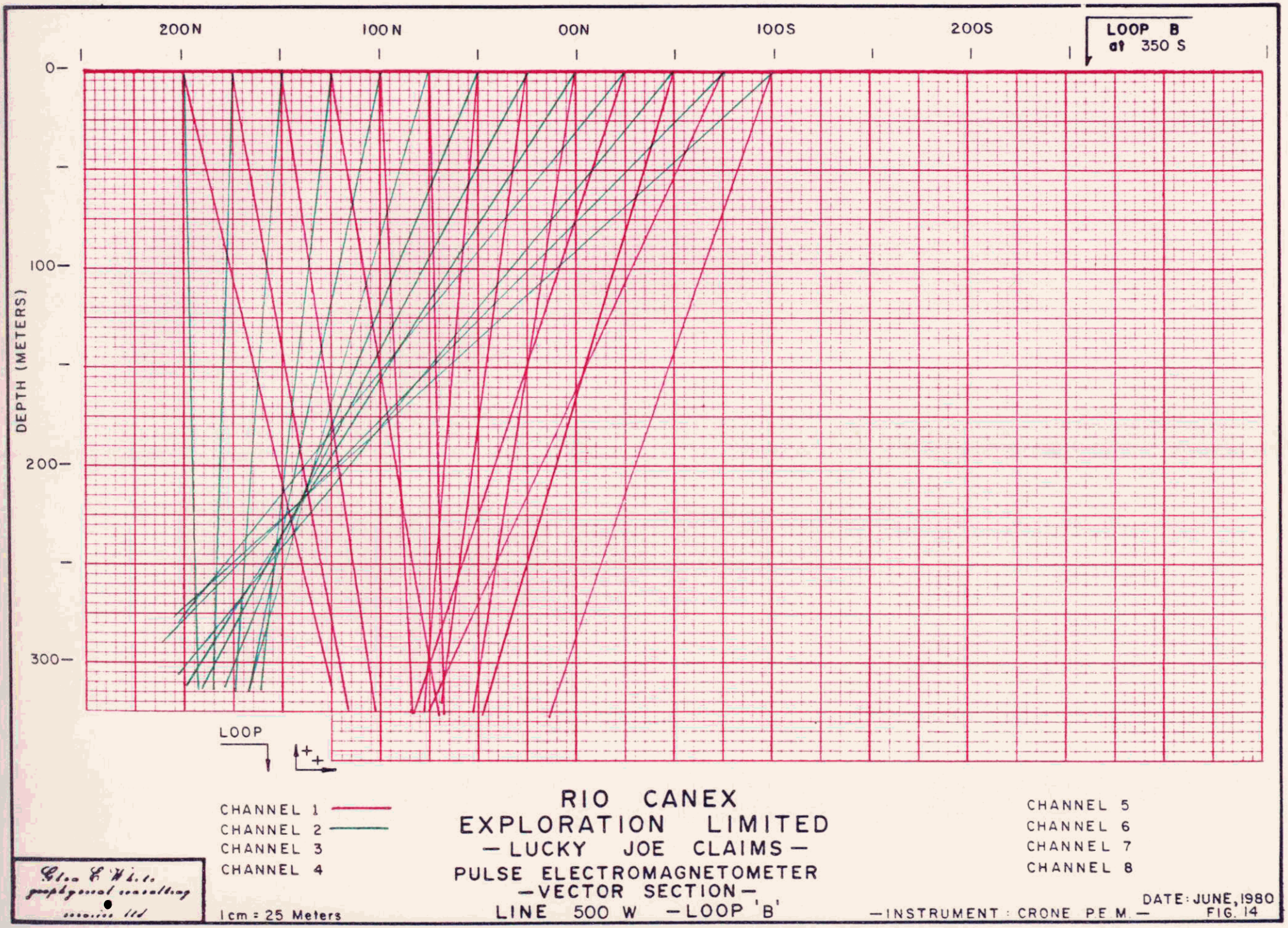
CHANNEL 5
CHANNEL 6
CHANNEL 7
CHANNEL 8

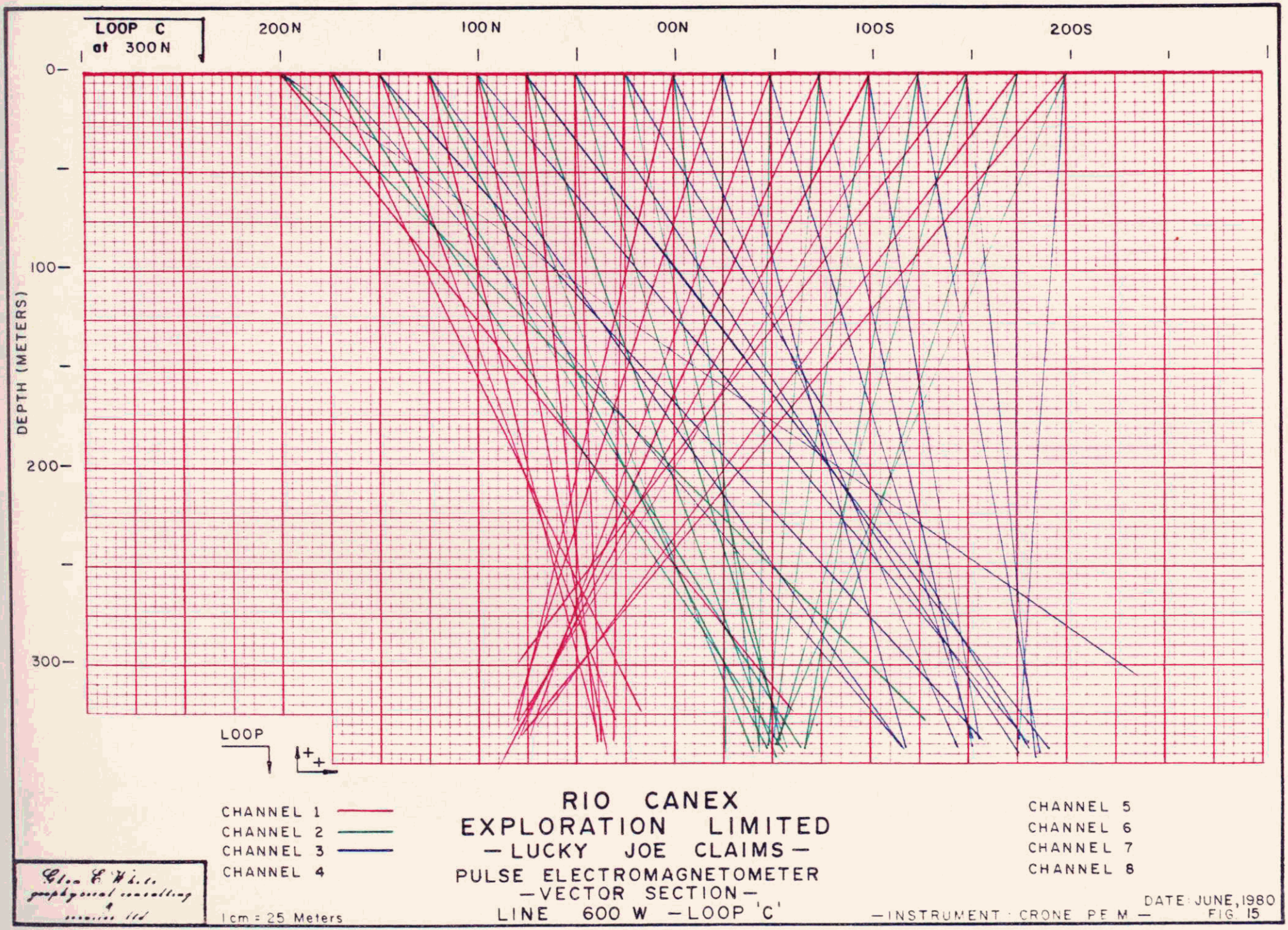
Glen E. White
geophysical consulting
&
services ltd

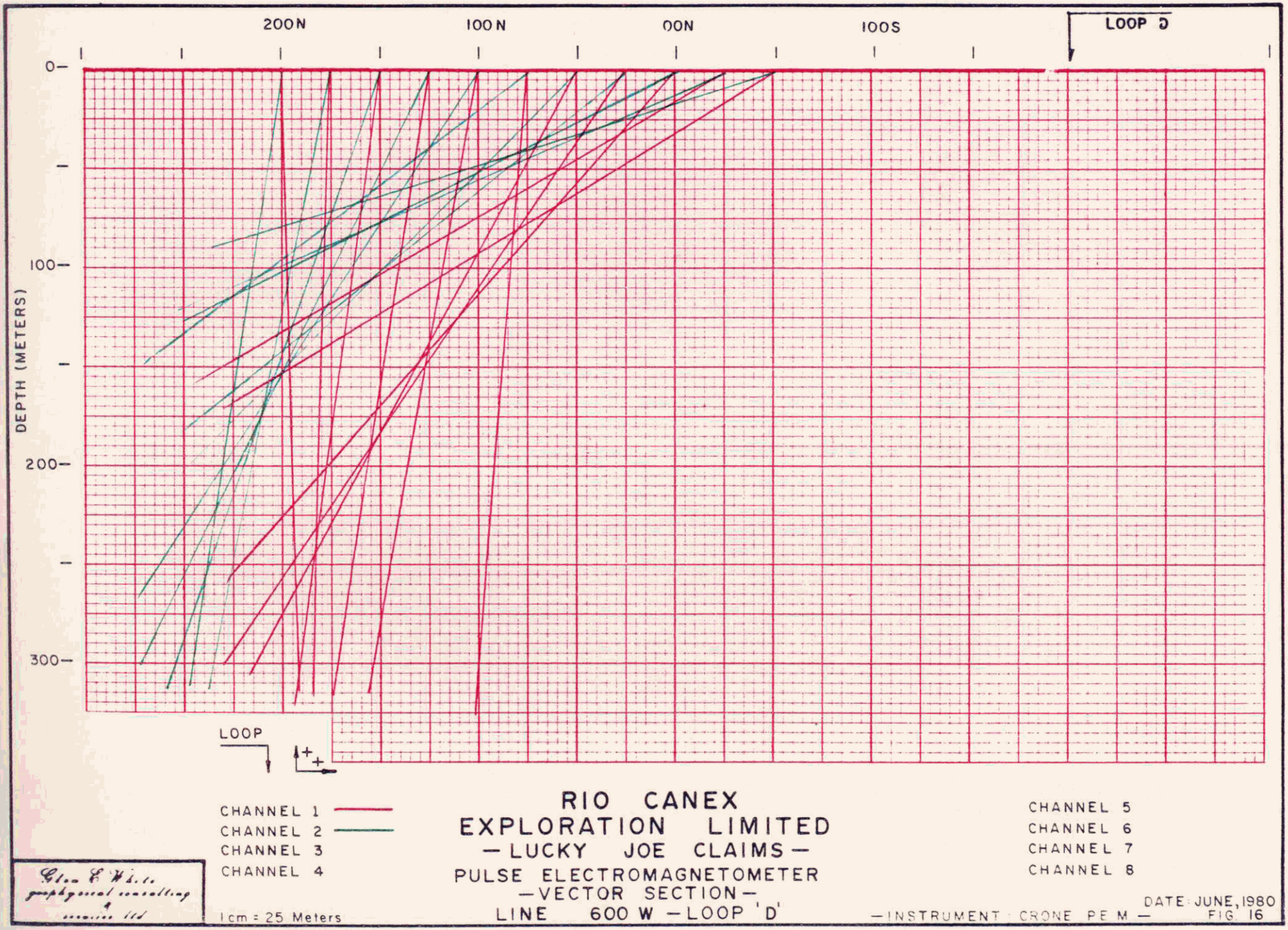
1 cm = 25 Meters

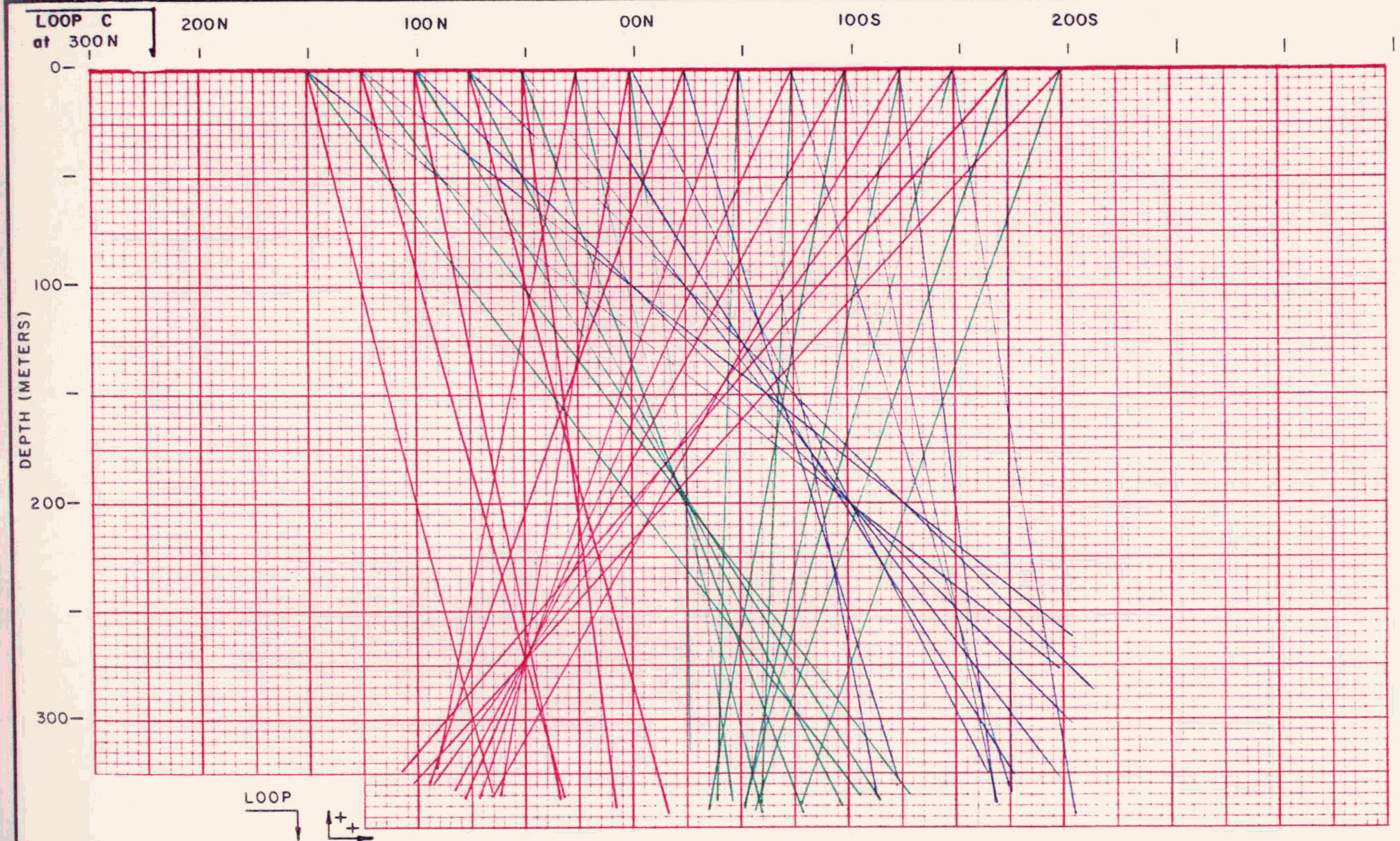
— INSTRUMENT : CRONE PE M —

DATE: JUNE, 1980
FIG. 13


200N
100N
00N
100S
200S
LOOP B
at 350 S
0
100
200
300
DEPTH (METERS)
LOOP
CHANNEL 1
CHANNEL 2
CHANNEL 3
CHANNEL 4
CHANNEL 5
CHANNEL 6
CHANNEL 7
CHANNEL 8
RIO CANEX
EXPLORATION LIMITED
— LUCKY JOE CLAIMS —
PULSE ELECTROMAGNETOMETER
— VECTOR SECTION —
LINE 500 W — LOOP 'B'
1cm = 25 Meters
— INSTRUMENT : CRONE P.E.M. —
DATE: JUNE, 1980
FIG. 14


LOOP C
at 300 N
200N
100 N
00N
100S
200S
0
100
200
300
DEPTH (METERS)
LOOP
CHANNEL 1
CHANNEL 2
CHANNEL 3
CHANNEL 4
CHANNEL 5
CHANNEL 6
CHANNEL 7
CHANNEL 8
RIO CANEX
EXPLORATION LIMITED
— LUCKY JOE CLAIMS —
PULSE ELECTROMAGNETOMETER
— VECTOR SECTION —
LINE 600 W — LOOP 'C'
1 cm = 25 Meters
— INSTRUMENT : CRONE PEM —
DATE: JUNE, 1980
FIG. 15


200N
100N
00N
100S
LOOP D
0
100
200
300
DEPTH (METERS)
LOOP
CHANNEL 1
CHANNEL 2
CHANNEL 3
CHANNEL 4
CHANNEL 5
CHANNEL 6
CHANNEL 7
CHANNEL 8
RIO CANEX
EXPLORATION LIMITED
— LUCKY JOE CLAIMS —
PULSE ELECTROMAGNETOMETER
— VECTOR SECTION —
LINE 600 W — LOOP 'D'
— INSTRUMENT : CRONE PEM —
DATE: JUNE, 1980
FIG. 16
1cm = 25 Meters
Glen E. Wilt
geophysical consulting
services ltd



CHANNEL 1
CHANNEL 2
CHANNEL 3
CHANNEL 4

RIO CANEX EXPLORATION LIMITED

— LUCKY JOE CLAIMS —

PULSE ELECTROMAGNETOMETER
— VECTOR SECTION —
LINE 750 W — LOOP 'C'

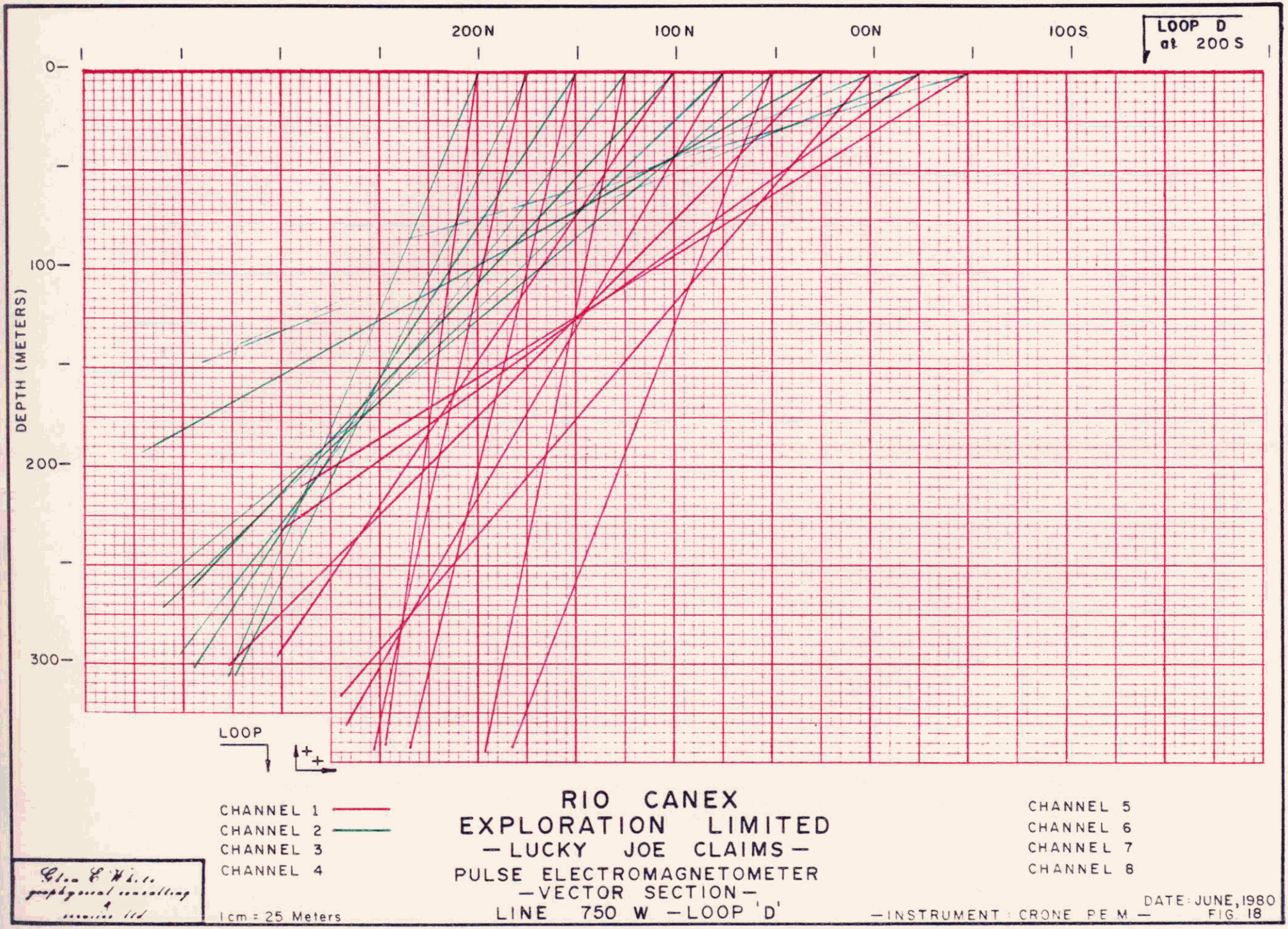
CHANNEL 5
CHANNEL 6
CHANNEL 7
CHANNEL 8

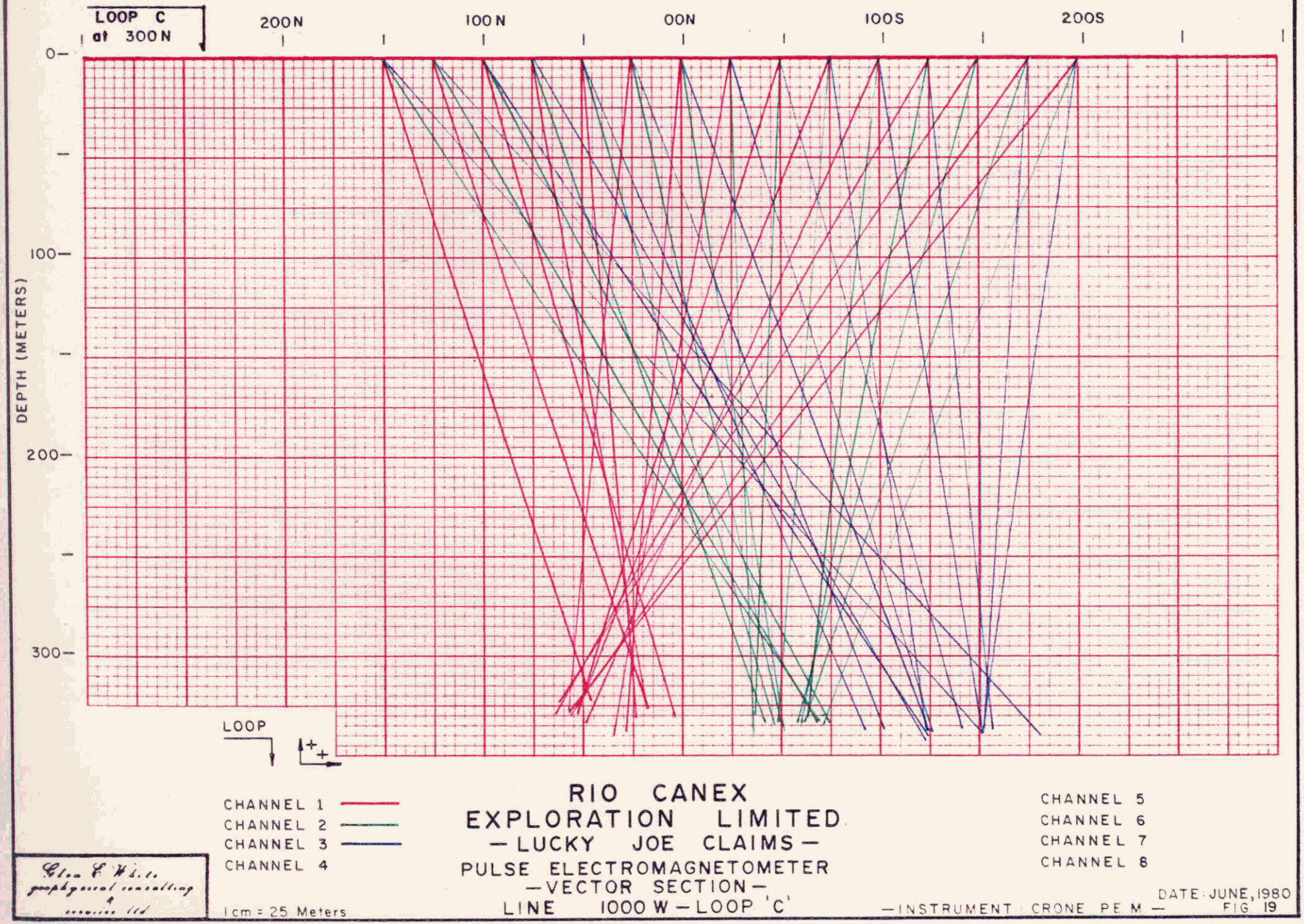
Glen E White
geophysical consulting
&
services ltd

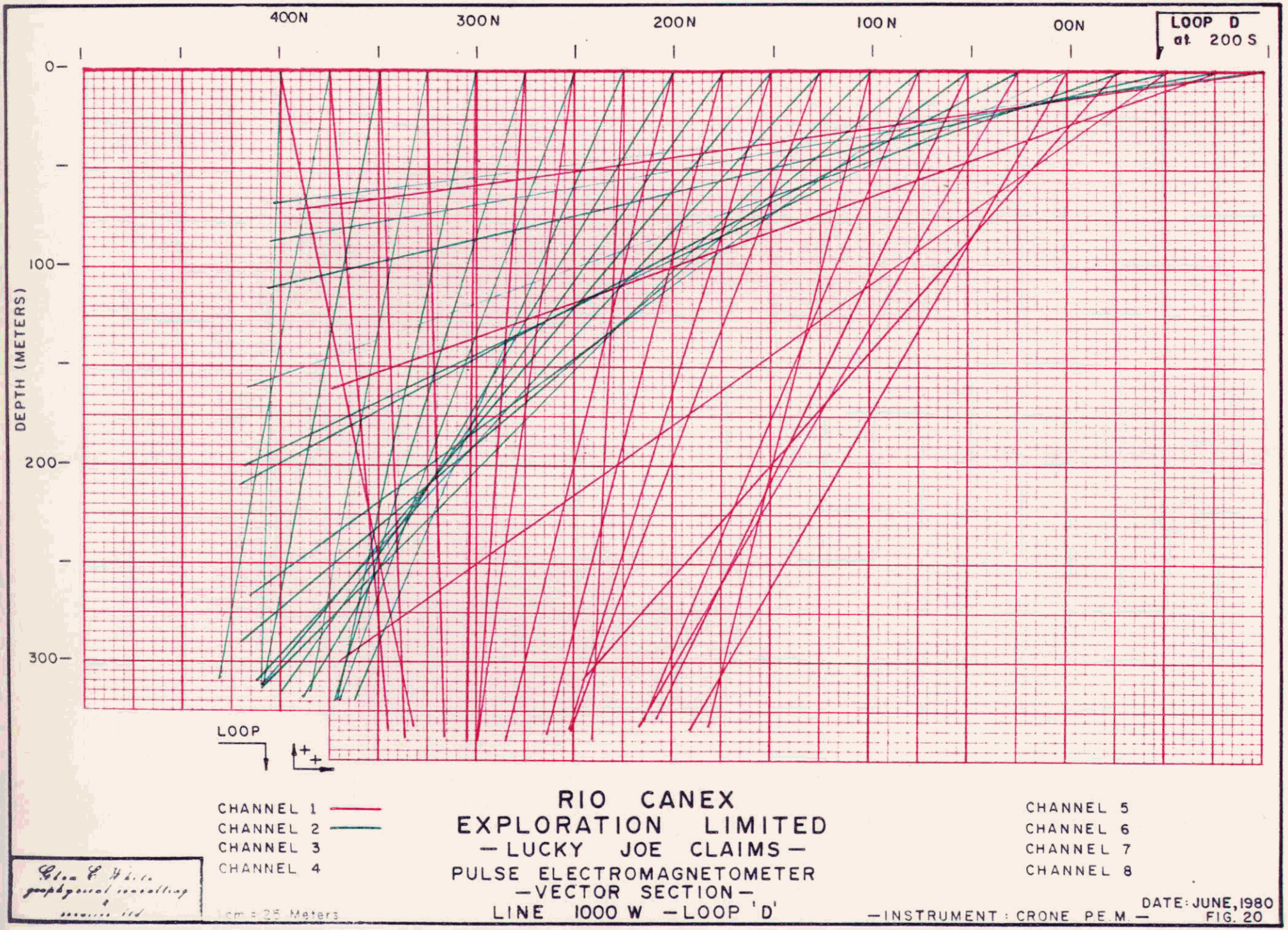
1 cm = 25 Meters

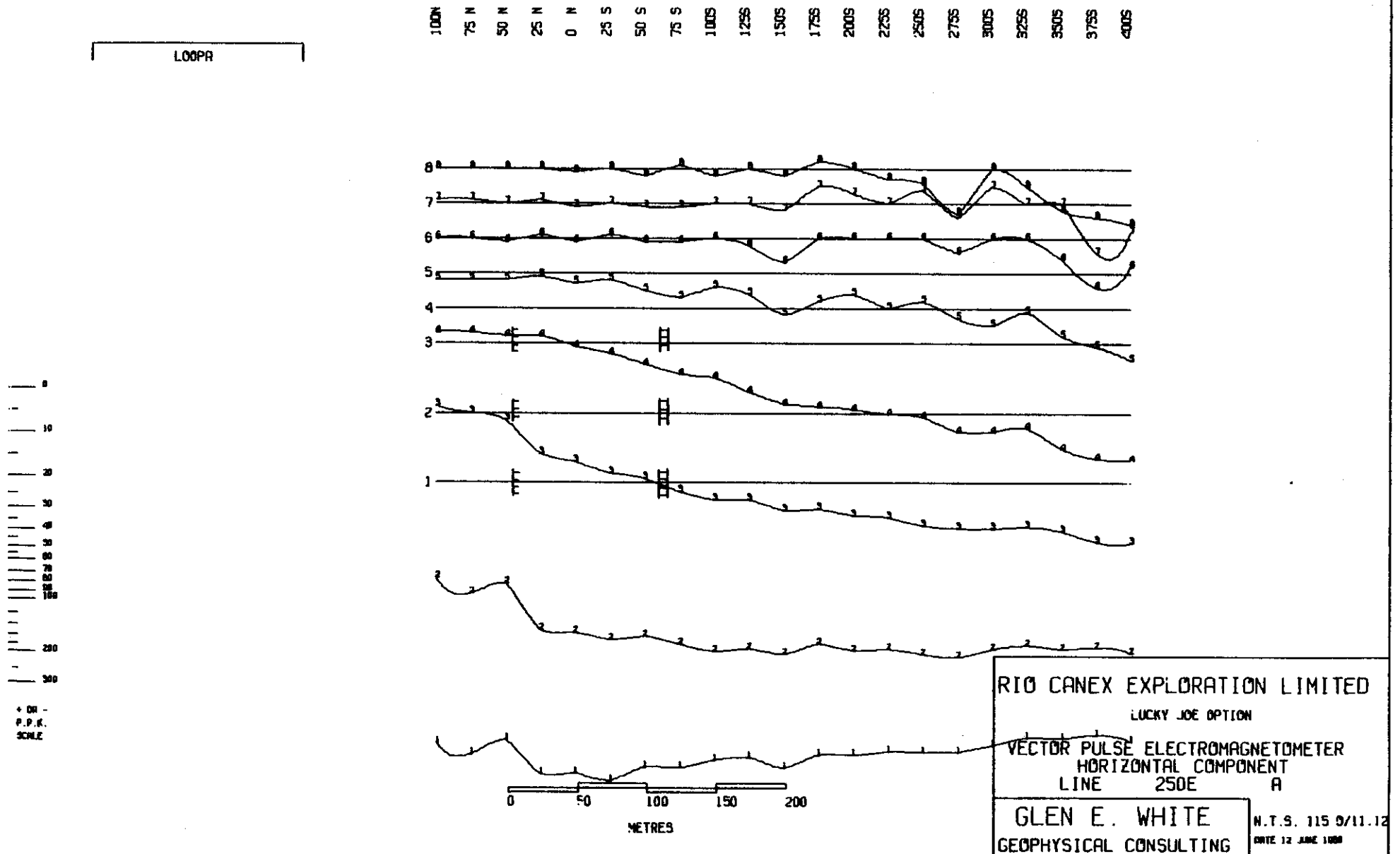
— INSTRUMENT CRONE PE M —

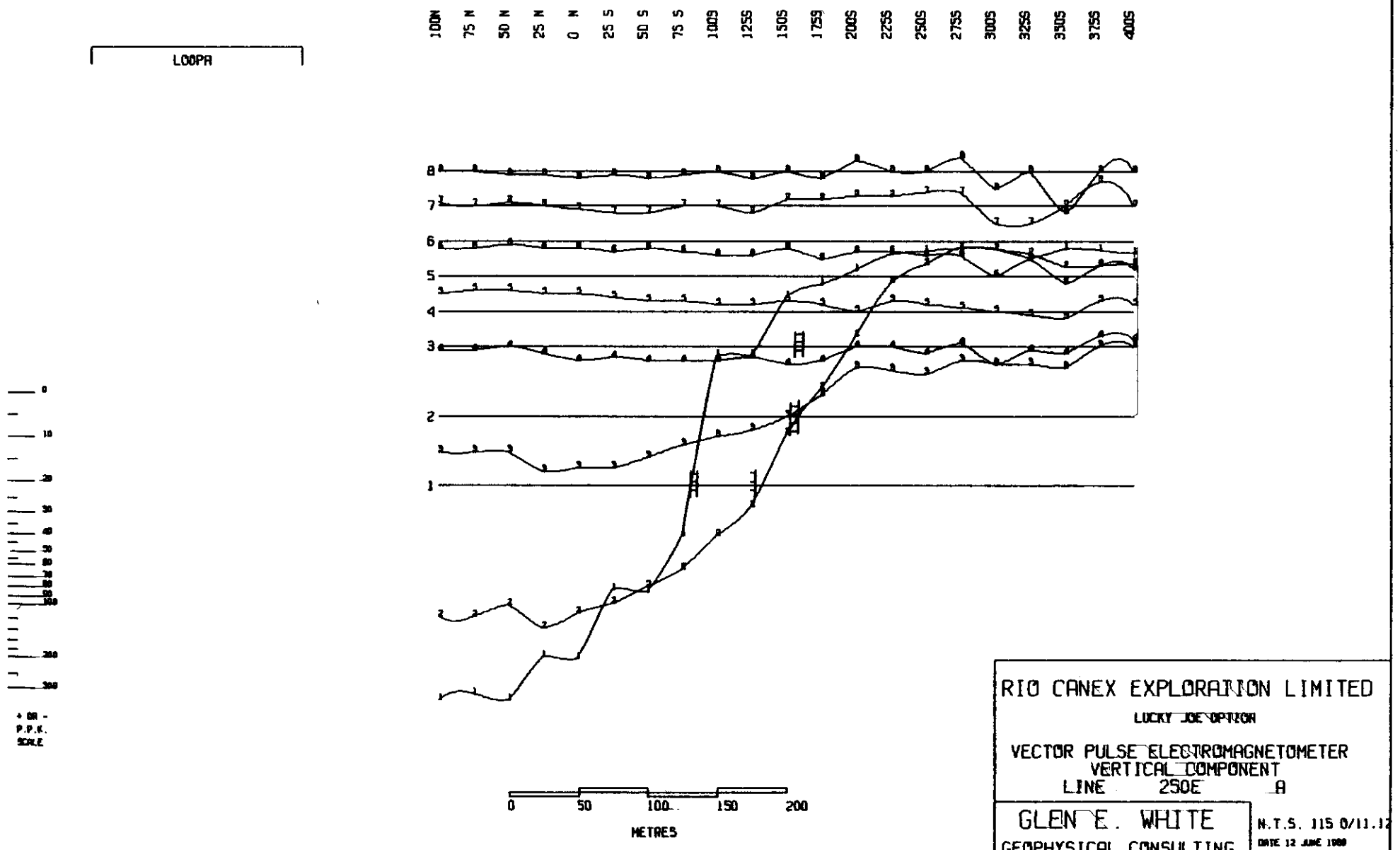
DATE JUNE, 1980
FIG. 17


200N
100N
00N
100S
LOOP D
at 200S
0
100
200
300
DEPTH (METERS)
LOOP
CHANNEL 1
CHANNEL 2
CHANNEL 3
CHANNEL 4
CHANNEL 5
CHANNEL 6
CHANNEL 7
CHANNEL 8
RIO CANEX
EXPLORATION LIMITED
— LUCKY JOE CLAIMS —
PULSE ELECTROMAGNETOMETER
— VECTOR SECTION —
LINE 750 W — LOOP 'D'
— INSTRUMENT : CRONE P.E.M. —
1cm = 25 Meters
DATE: JUNE, 1980
FIG. 18


LOOP C
at 300 N
200N
100 N
00N
100S
200S
0
100
200
300
DEPTH (METERS)
LOOP
CHANNEL 1
CHANNEL 2
CHANNEL 3
CHANNEL 4
CHANNEL 5
CHANNEL 6
CHANNEL 7
CHANNEL 8
1cm = 25 Meters
RIO CANEX
EXPLORATION LIMITED
— LUCKY JOE CLAIMS —
PULSE ELECTROMAGNETOMETER
— VECTOR SECTION —
LINE 1000 W — LOOP 'C'
— INSTRUMENT : CRONE PEM —
DATE: JUNE, 1980
FIG. 19


400N
300N
200N
100N
00N
LOOP D
at 200S
0
100
200
300
DEPTH (METERS)
LOOP
CHANNEL 1
CHANNEL 2
CHANNEL 3
CHANNEL 4
CHANNEL 5
CHANNEL 6
CHANNEL 7
CHANNEL 8
RIO CANEX
EXPLORATION LIMITED
— LUCKY JOE CLAIMS —
PULSE ELECTROMAGNETOMETER
— VECTOR SECTION —
LINE 1000 W — LOOP 'D'
— INSTRUMENT : CRONE P.E.M. —
DATE: JUNE, 1980
FIG. 20
1cm = 25 Meters


LOOP A
100N
75 N
50 N
25 N
0 N
25 S
50 S
75 S
100S
125S
150S
175S
200S
225S
250S
275S
300S
325S
350S
375S
400S
8
7
6
5
4
3
2
1
10
20
30
40
50
60
70
80
90
100
200
300
+ OR -
P.P.M.
SCALE
0
50
100
150
200
METRES
NUMBER IN THE LINE = CHANNEL NUMBER
INSTRUMENT: CRONE P.E.M.
RIO CANEX EXPLORATION LIMITED
LUCKY JOE OPTION
VECTOR PULSE ELECTROMAGNETOMETER
HORIZONTAL COMPONENT
LINE 250E A
GLEN E. WHITE
GEOPHYSICAL CONSULTING
& SERVICES LTD.
N.T.S. 115 O/11.12
DATE 12 JUNE 1988
FIG.NO: 21



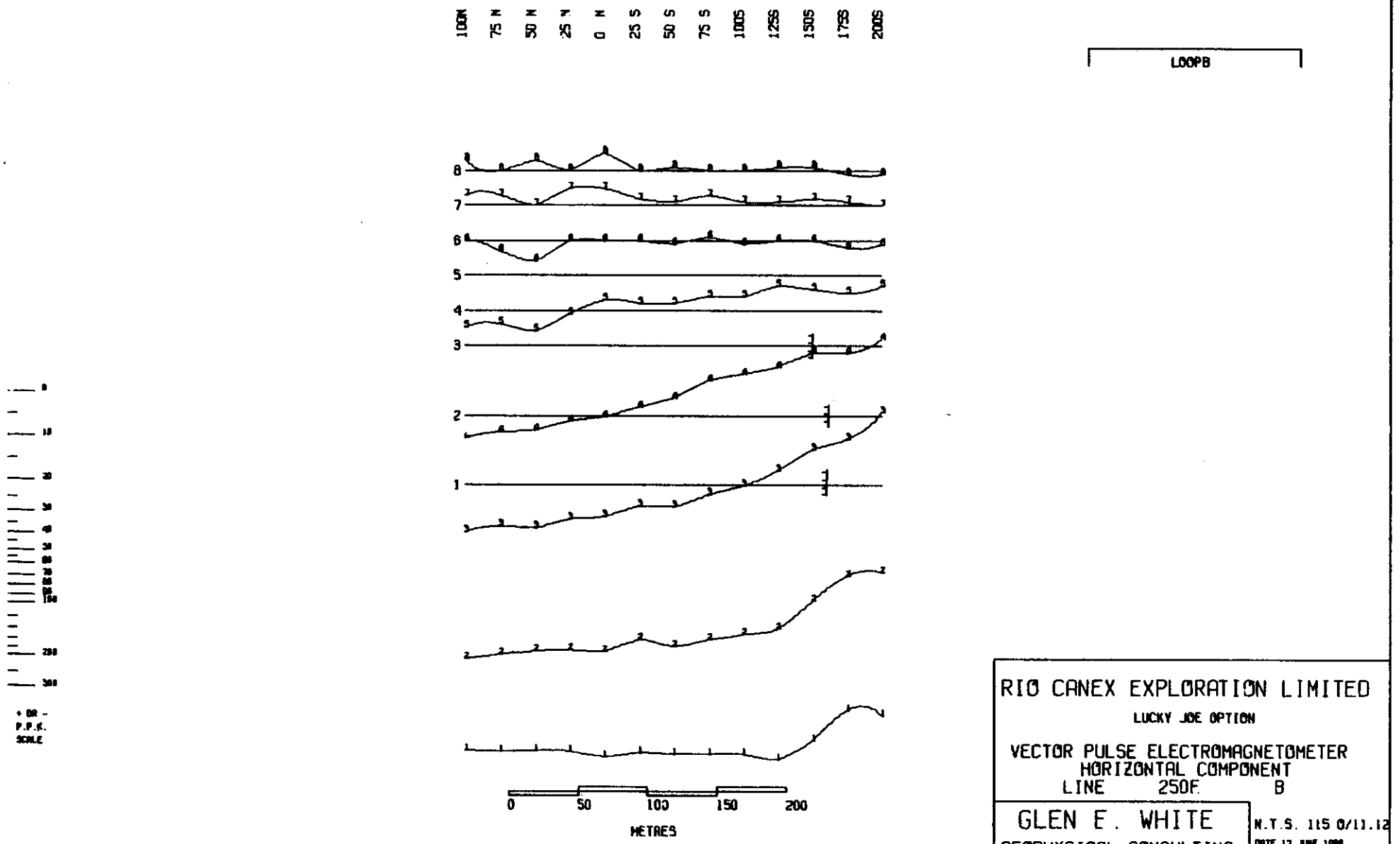
RIO CANEX EXPLORATION LIMITED

LUCKY JOE OPTION

VECTOR PULSE ELECTROMAGNETOMETER
VERTICAL COMPONENT
LINE 250E A

GLEN E. WHITE
GEOPHYSICAL CONSULTING & SERVICES LTD.

N.T.S. 115 O/11.12
DATE 12 JUNE 1988
FIG.NO. 22



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

RIO CANEX EXPLORATION LIMITED

LUCKY JOE OPTION

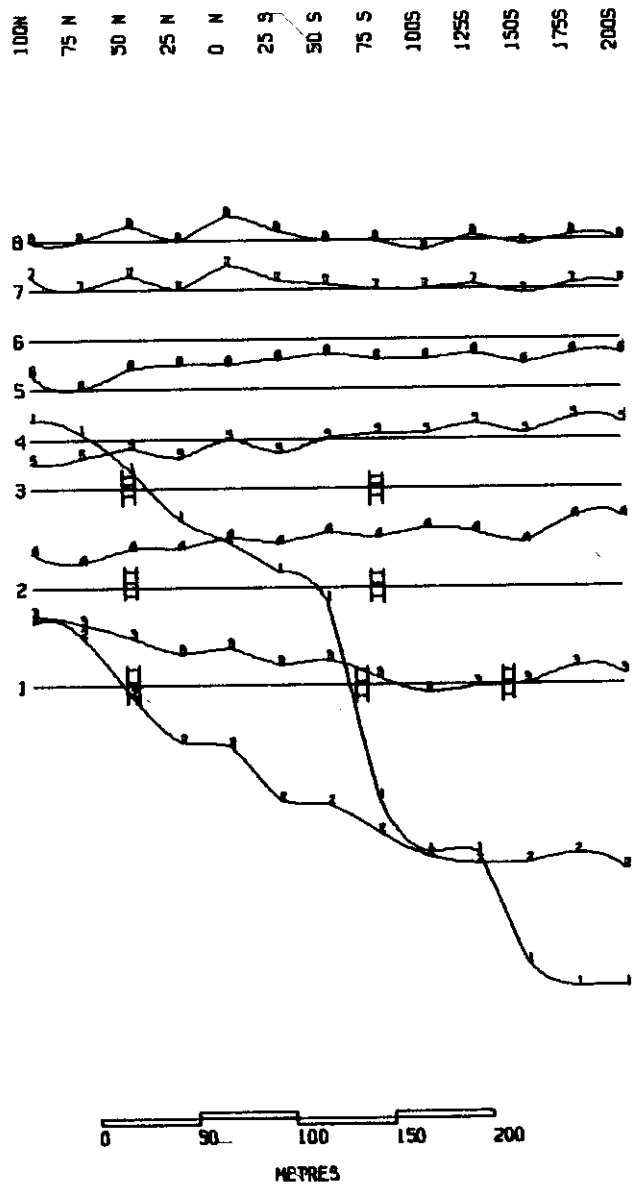
VECTOR PULSE ELECTROMAGNETOMETER
HORIZONTAL COMPONENT
LINE 250E B

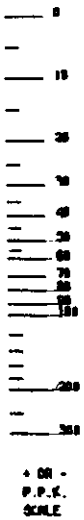
GLEN E. WHITE
GEOPHYSICAL CONSULTING
& SERVICES LTD.

N.T.S. 115 O/11,12

DATE 12 JUNE 1988

FIG.NO: 23





NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

RIO CANEX EXPLORATION LIMITED

LUCKY JOE OPTION

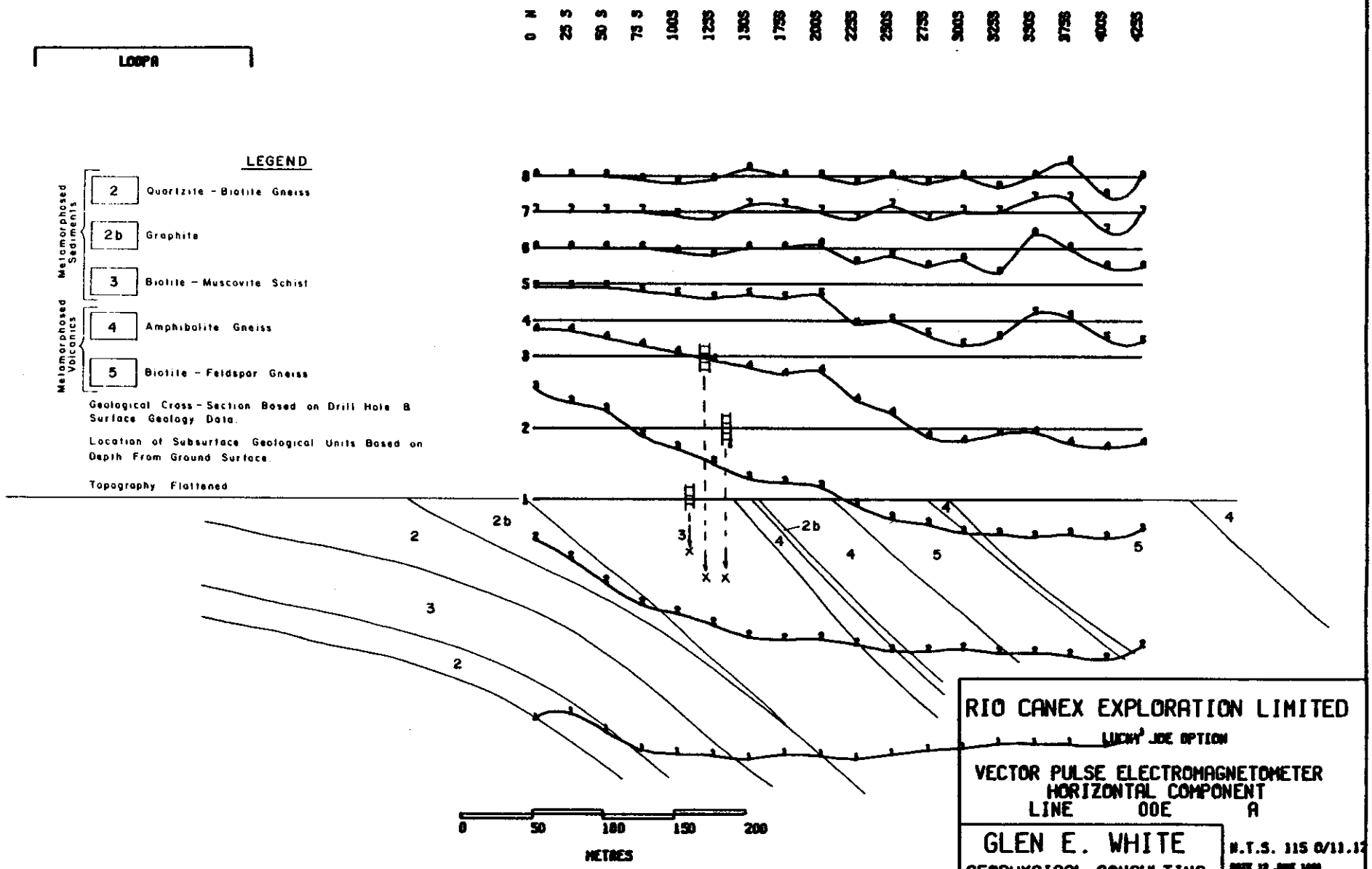
VECTOR PULSE ELECTROMAGNETOMETER
VERTICAL COMPONENT
LINE 250E B

GLEN E. WHITE
GEOPHYSICAL CONSULTING
& SERVICES LTD.

N.T.S. 115 O/11.12

DATE 12 JUNE 1988

FIG.NO: 24



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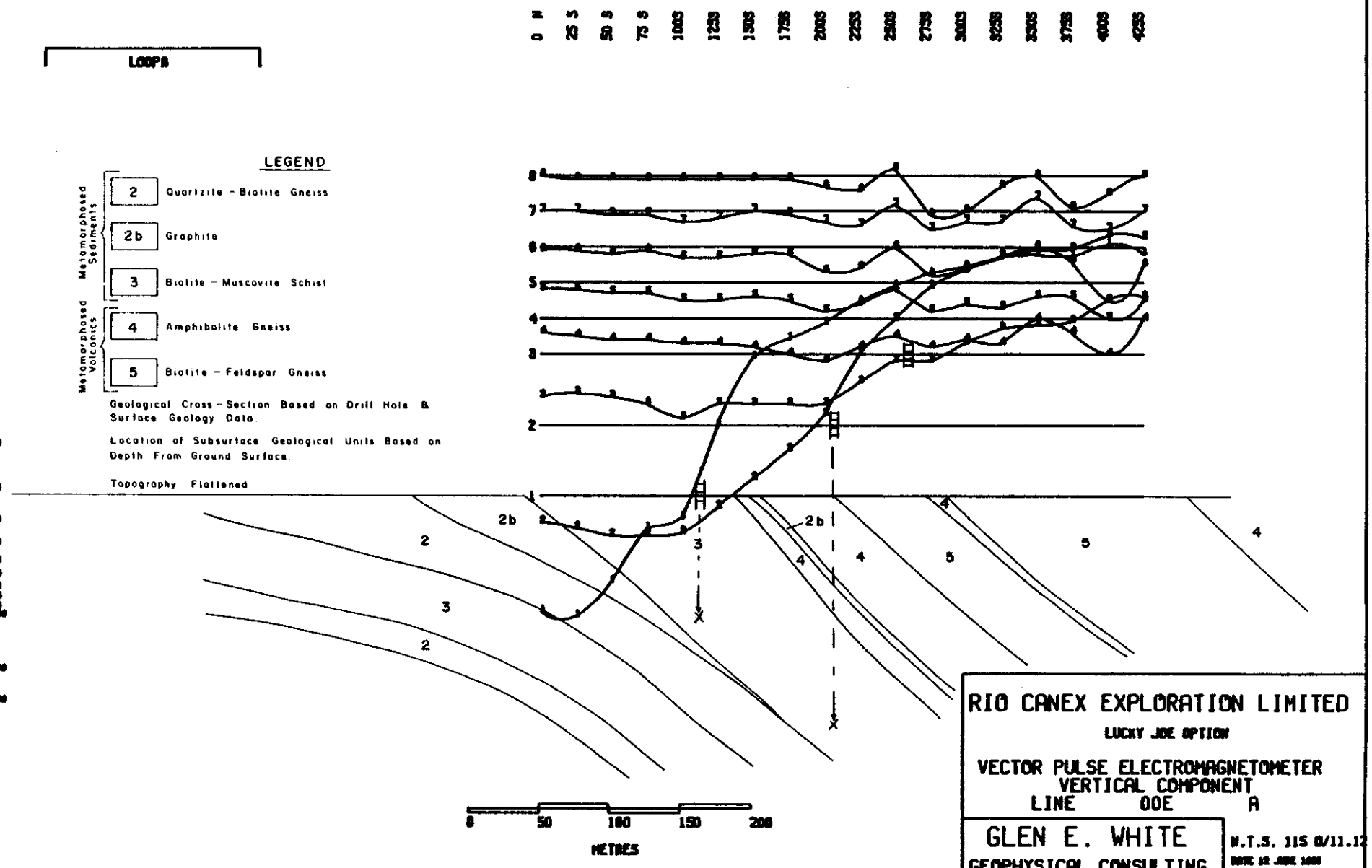
LUCKY JOE OPTION

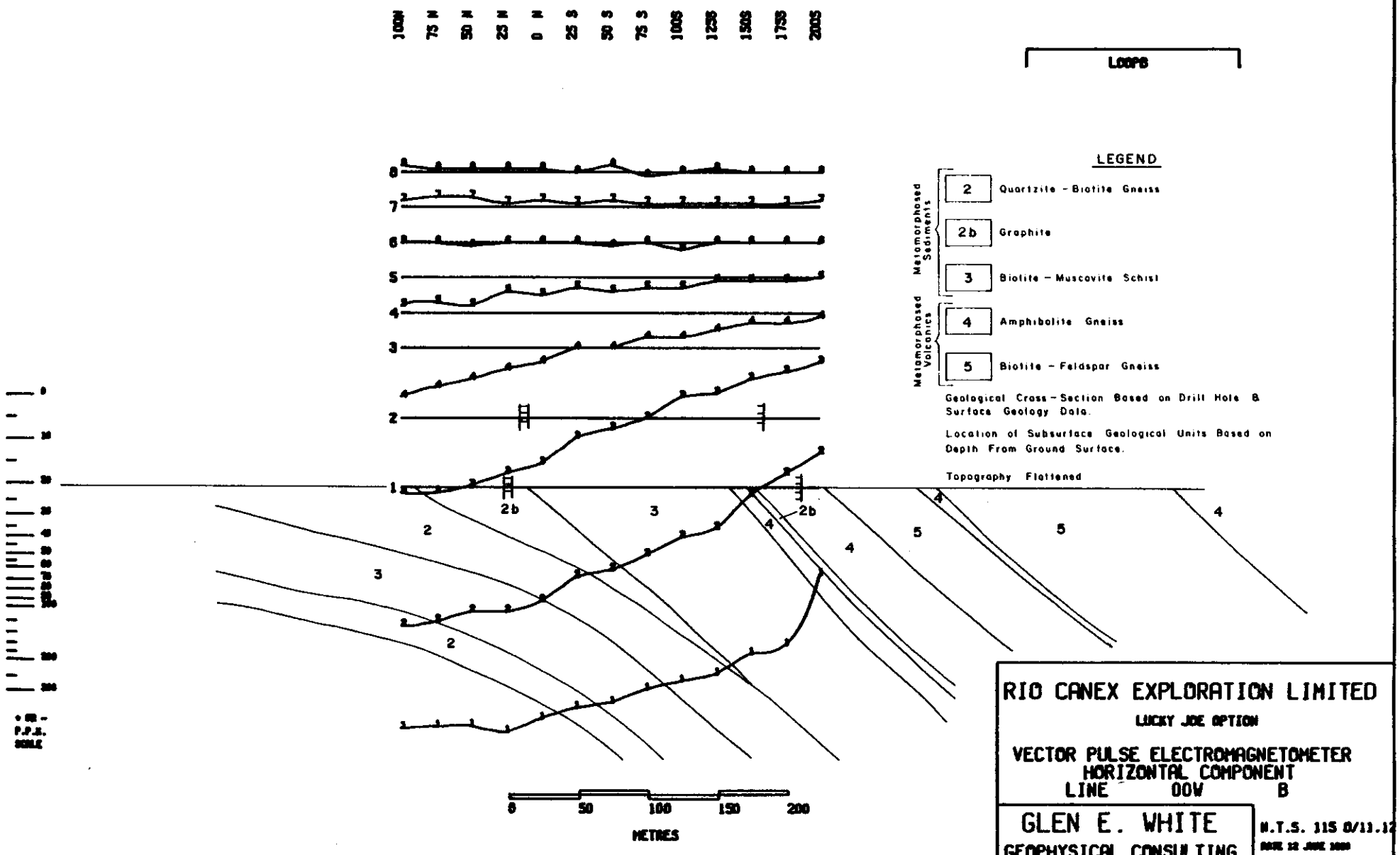
VECTOR PULSE ELECTROMAGNETOMETER
HORIZONTAL COMPONENT
LINE 00E A

GLEN E. WHITE
GEOPHYSICAL CONSULTING & SERVICES LTD.

N.T.S. 115 G/11,12

FIG.NO: 25


LOOP B
0 N
250
500
750
1000
1250
1500
1750
2000
2250
2500
2750
3000
3250
3500
3750
4000
4250
LEGEND
Metamorphosed Sediments
2 Quartzite - Biotite Gneiss
2b Graphite
3 Biotite - Muscovite Schist
Metamorphosed Volcanics
4 Amphibolite Gneiss
5 Biotite - Feldspar Gneiss
Geological Cross-Section Based on Drill Hole & Surface Geology Data.
Location of Subsurface Geological Units Based on Depth From Ground Surface.
Topography Flattened
8
7
6
5
4
3
2
1
2b
3
4
5
0
50
100
150
200
METRES
NUMBER IN THE LINE = CHANNEL NUMBER
INSTRUMENT: CRONE P.E.M.
RIO CANEX EXPLORATION LIMITED
LUCKY JOE OPTION
VECTOR PULSE ELECTROMAGNETOMETER
VERTICAL COMPONENT
LINE 00E A
GLEN E. WHITE
GEOPHYSICAL CONSULTING & SERVICES LTD.
N.T.S. 115 G/11,12
FIG.NO: 26



RIO CANEX EXPLORATION LIMITED

LUCKY JOE OPTION

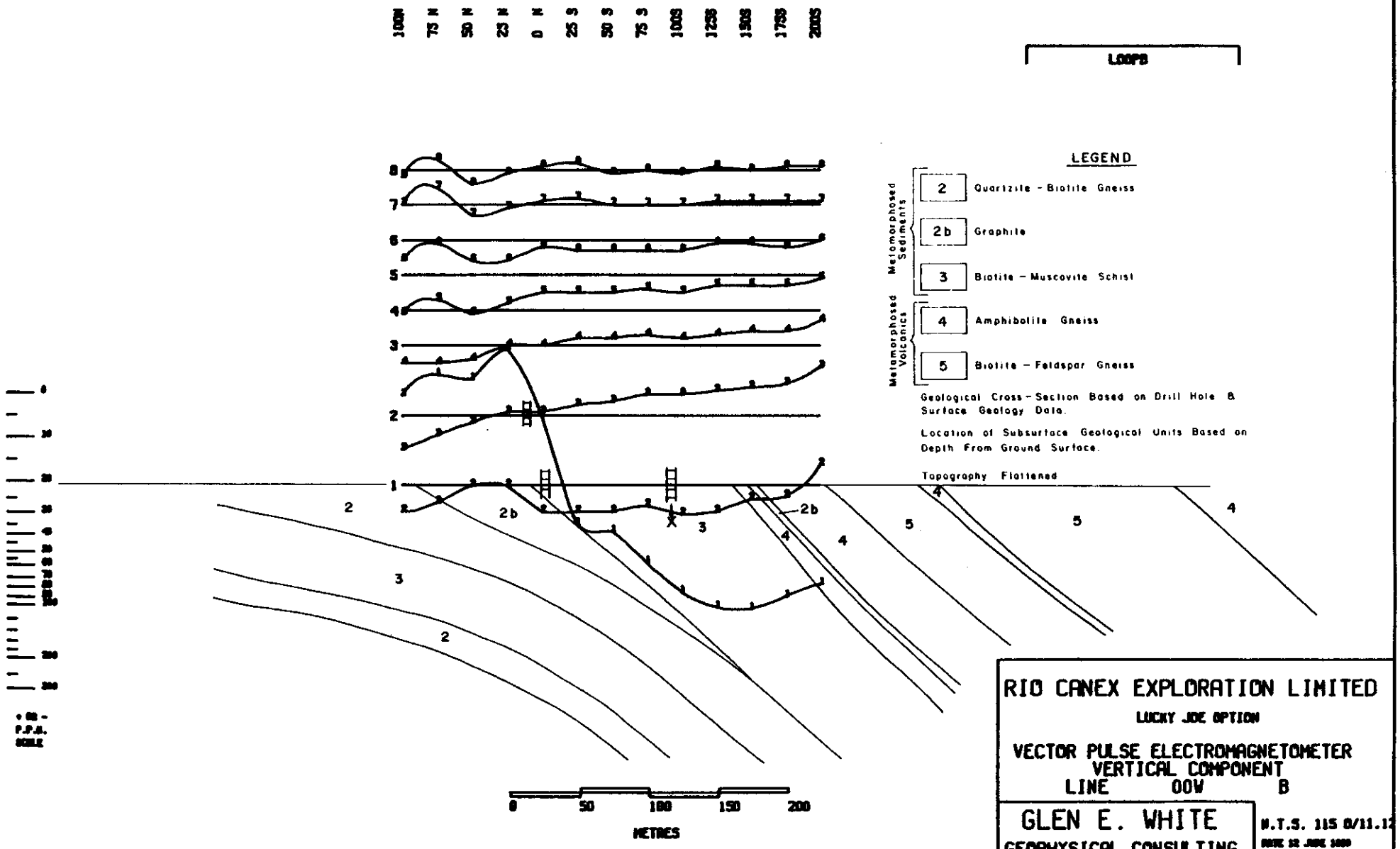
VECTOR PULSE ELECTROMAGNETOMETER
HORIZONTAL COMPONENT
LINE 00W B

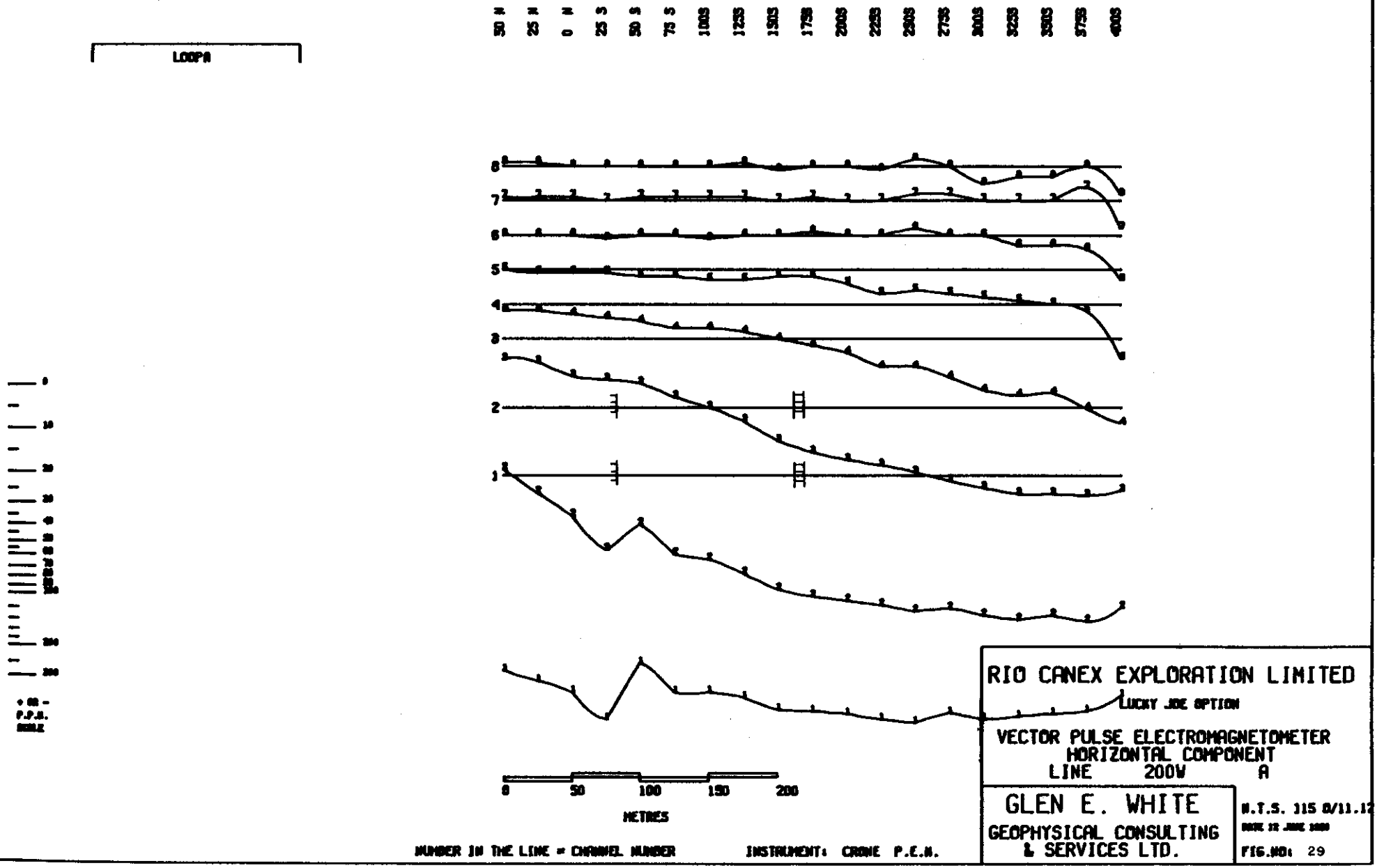
GLEN E. WHITE
GEOPHYSICAL CONSULTING & SERVICES LTD.

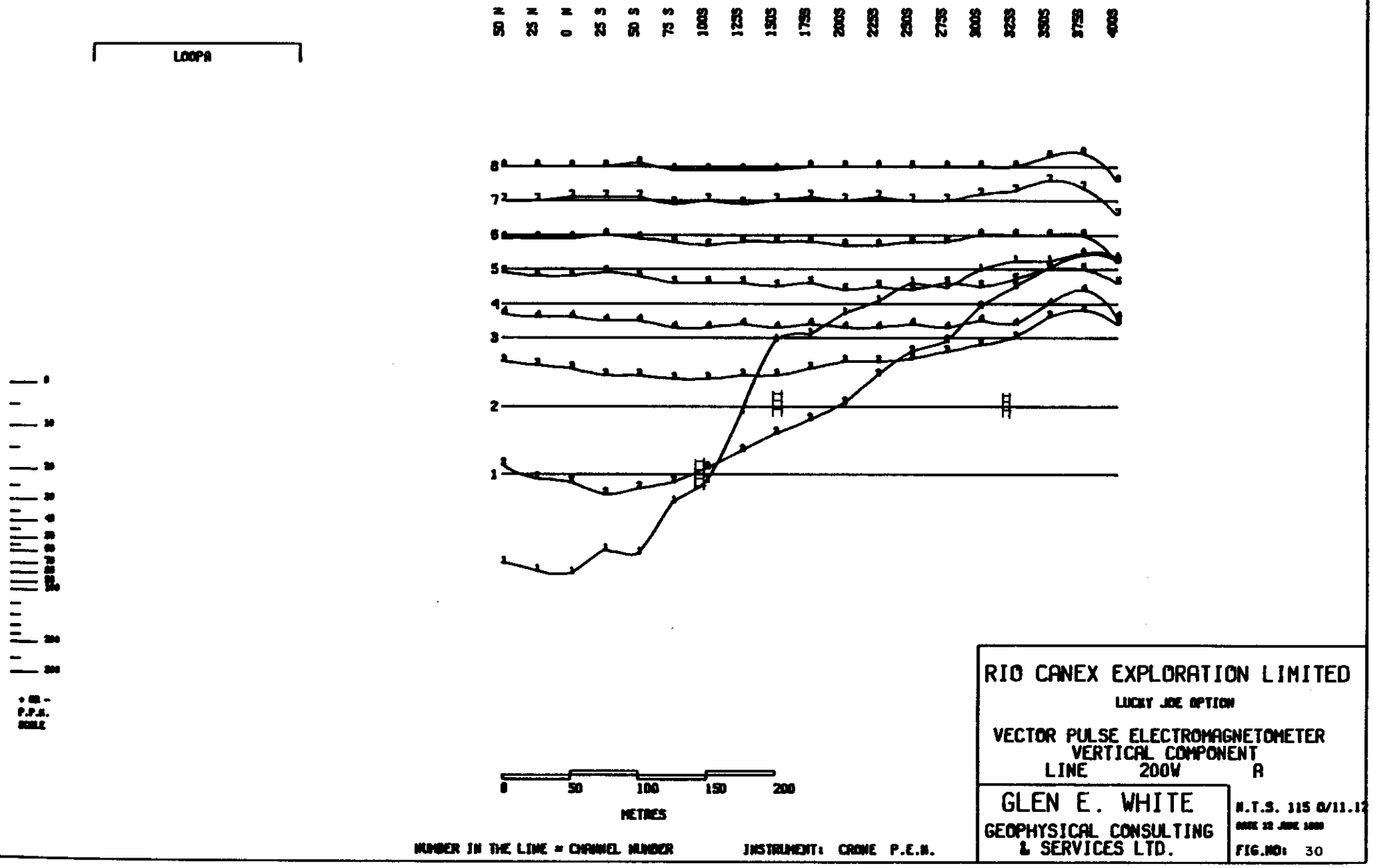
N.T.S. 115 O/13.12

DATE 12 JUNE 1989

FIG.NO: 27


100N
75 N
50 N
25 N
0 N
25 S
50 S
75 S
100S
125S
150S
175S
200S
LOOP8
LEGEND
Metamorphosed Sediments
2 Quartzite - Biotite Gneiss
2b Graphite
3 Biotite - Muscovite Schist
Metamorphosed Volcanics
4 Amphibolite Gneiss
5 Biotite - Feldspar Gneiss
Geological Cross-Section Based on Drill Hole & Surface Geology Data.
Location of Subsurface Geological Units Based on Depth From Ground Surface.
Topography Flattened
0 50 100 150 200
METRES
NUMBER IN THE LINE = CHANNEL NUMBER
INSTRUMENT: CRONE P.E.M.
RIO CANEX EXPLORATION LIMITED
LUCKY JOE OPTION
VECTOR PULSE ELECTROMAGNETOMETER
VERTICAL COMPONENT
LINE 00W B
GLEN E. WHITE
GEOPHYSICAL CONSULTING & SERVICES LTD.
N.T.S. 115 G/11.12
FIG.NO: 28


LOOP A
50 N
25 N
0 N
25 S
50 S
75 S
100S
125S
150S
175S
200S
225S
250S
275S
300S
325S
350S
375S
400S
8
7
6
5
4
3
2
1
0
50
100
150
200
METRES
NUMBER IN THE LINE = CHANNEL NUMBER
INSTRUMENT: CRONE P.E.M.
RIO CANEX EXPLORATION LIMITED
LUCKY JOE OPTION
VECTOR PULSE ELECTROMAGNETOMETER
HORIZONTAL COMPONENT
LINE 200W A
GLEN E. WHITE
GEOPHYSICAL CONSULTING
& SERVICES LTD.
N.T.S. 115 O/11.12
FIG.NO: 29



RIO CANEX EXPLORATION LIMITED

LUCKY JOE OPTION

VECTOR PULSE ELECTROMAGNETOMETER
VERTICAL COMPONENT
LINE 200W A

GLEN E. WHITE
GEOPHYSICAL CONSULTING
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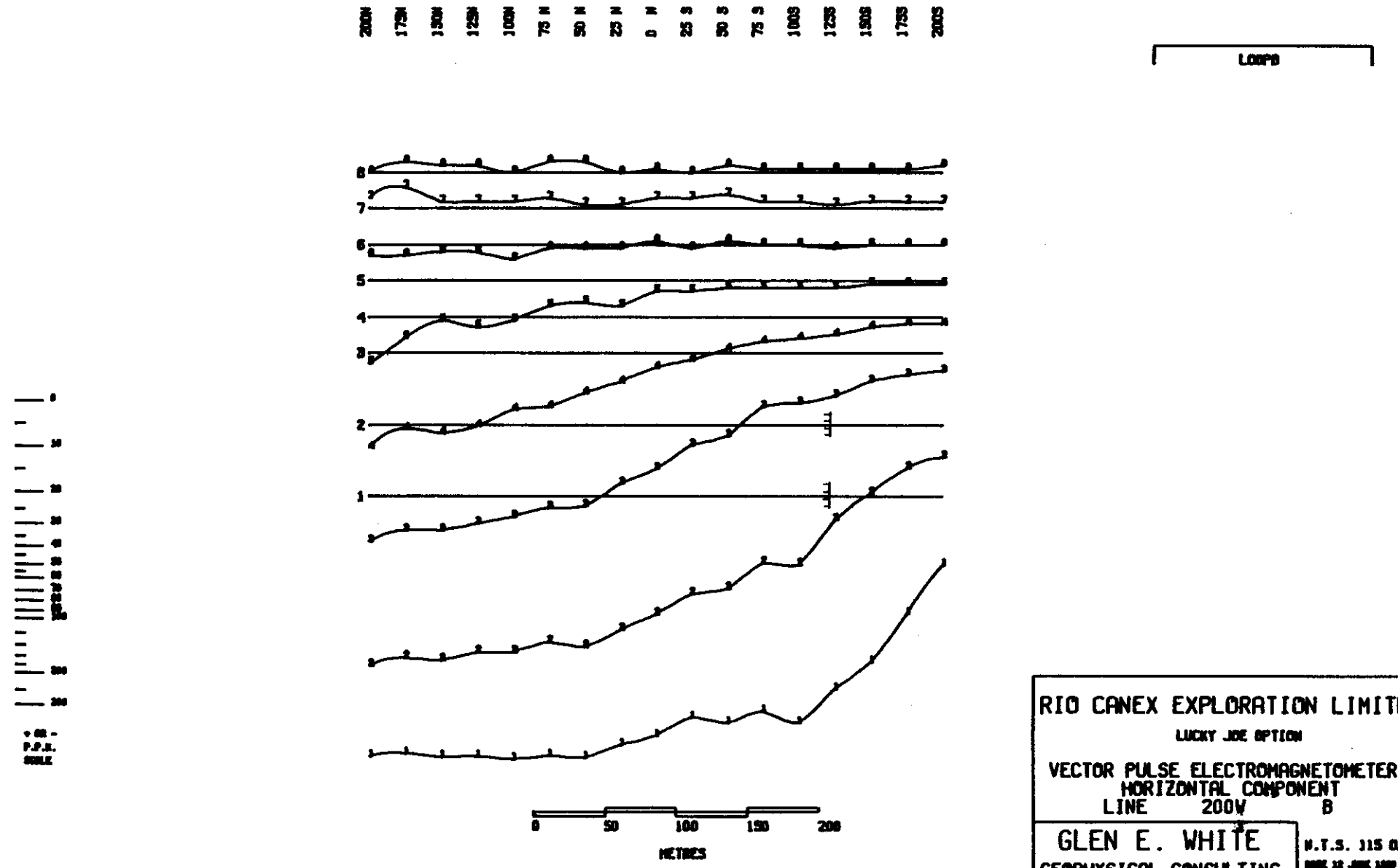
N.T.S. 115 G/11,12

FIG.NO: 30



RIO CANEX EXPLORATION LIMITED

LUCKY JOE OPTION

VECTOR PULSE ELECTROMAGNETOMETER
HORIZONTAL COMPONENT
LINE 200W B

GLEN E. WHITE
GEOPHYSICAL CONSULTING
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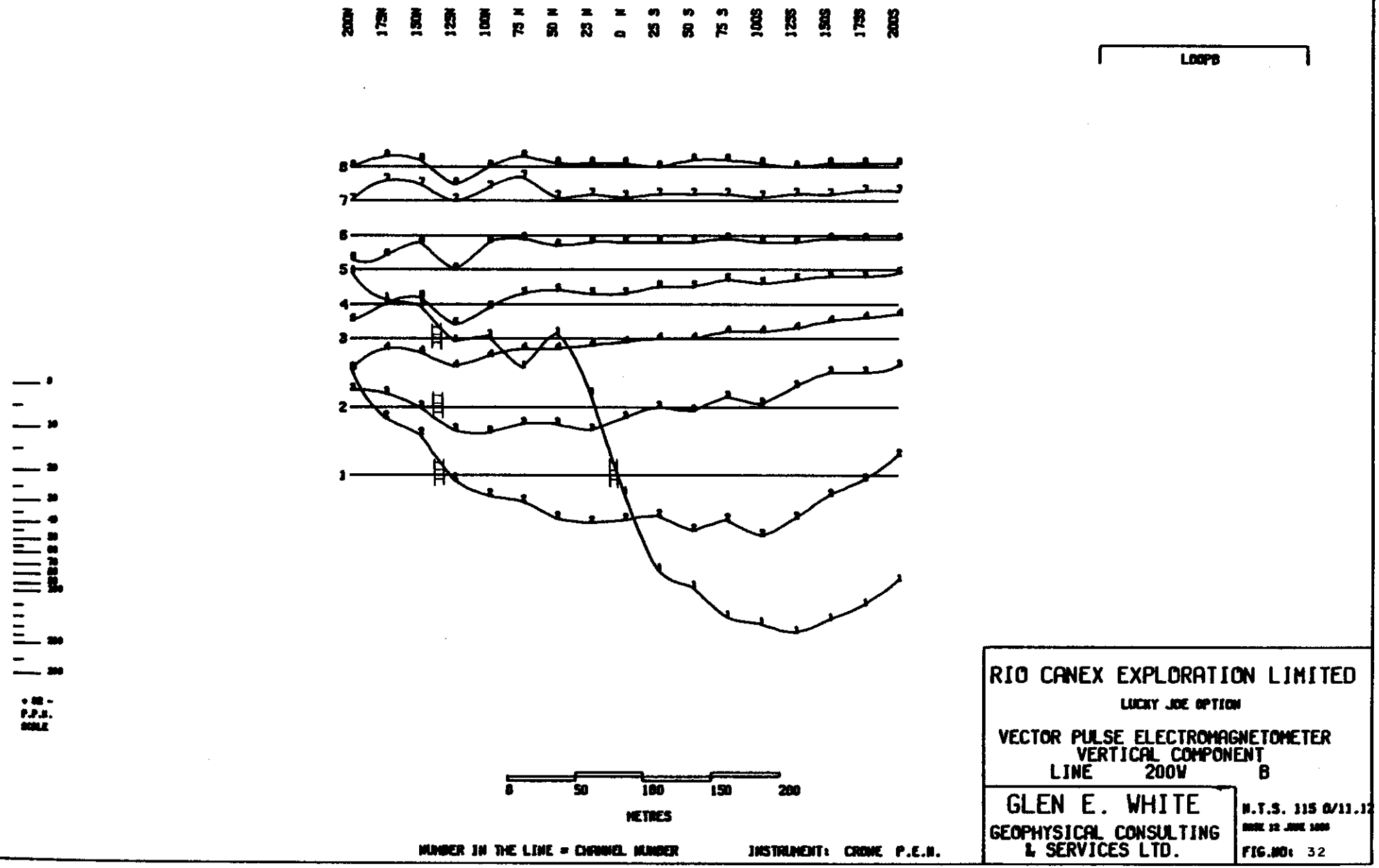
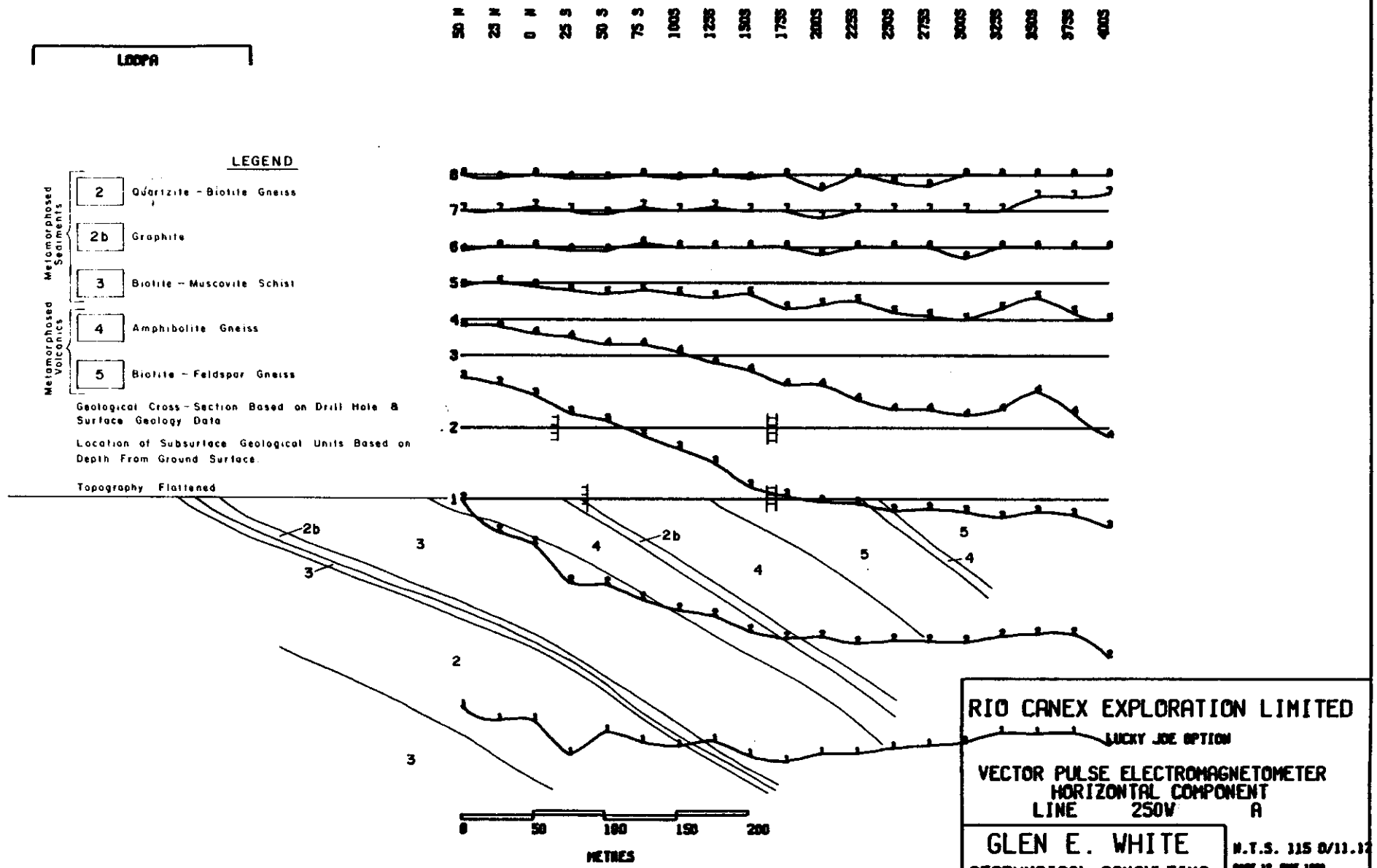
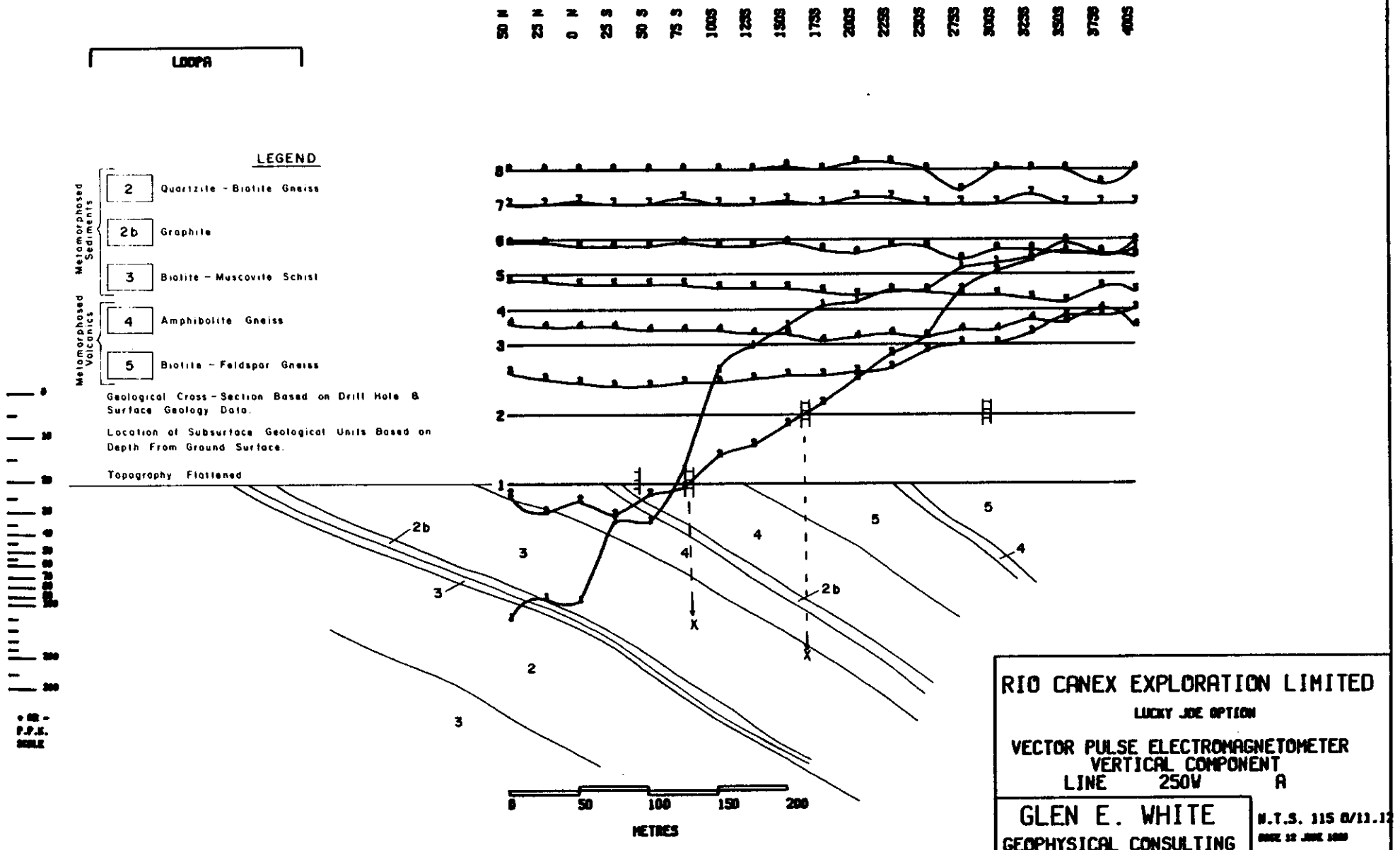
FIG.NO: 31


2000N
1750N
1500N
1250N
1000N
750 N
500 N
250 N
0 N
250 S
500 S
750 S
1000S
1250S
1500S
1750S
2000S
LOOP B
8
7
6
5
4
3
2
1
0
50
100
150
200
METRES
NUMBER IN THE LINE = CHANNEL NUMBER
INSTRUMENT: CRONE P.E.M.
RIO CANEX EXPLORATION LIMITED
LUCKY JOE OPTION
VECTOR PULSE ELECTROMAGNETOMETER
VERTICAL COMPONENT
LINE 200W B
GLEN E. WHITE
GEOPHYSICAL CONSULTING
& SERVICES LTD.
N.T.S. 115 O/11.12
FIG.NO: 32


LOOP A
50 N
25 N
0 N
25 S
50 S
75 S
100S
125S
150S
175S
200S
225S
250S
275S
300S
325S
350S
375S
400S
LEGEND
Metamorphosed Sediments
2 Quartzite - Biotite Gneiss
2b Graphite
3 Biotite - Muscovite Schist
Metamorphosed Volcanics
4 Amphibolite Gneiss
5 Biotite - Feldspar Gneiss
Geological Cross-Section Based on Drill Hole & Surface Geology Data
Location of Subsurface Geological Units Based on Depth From Ground Surface.
Topography Flattened
0
50
100
150
200
METRES
NUMBER IN THE LINE = CHANNEL NUMBER
INSTRUMENT: CRONE P.E.M.
RIO CANEX EXPLORATION LIMITED
LUCKY JOE OPTION
VECTOR PULSE ELECTROMAGNETOMETER
HORIZONTAL COMPONENT
LINE 250W A
GLEN E. WHITE
GEOPHYSICAL CONSULTING & SERVICES LTD.
N.T.S. 115 O/11.12
FIG.NO: 33



RIO CANEX EXPLORATION LIMITED

LUCKY JOE OPTION

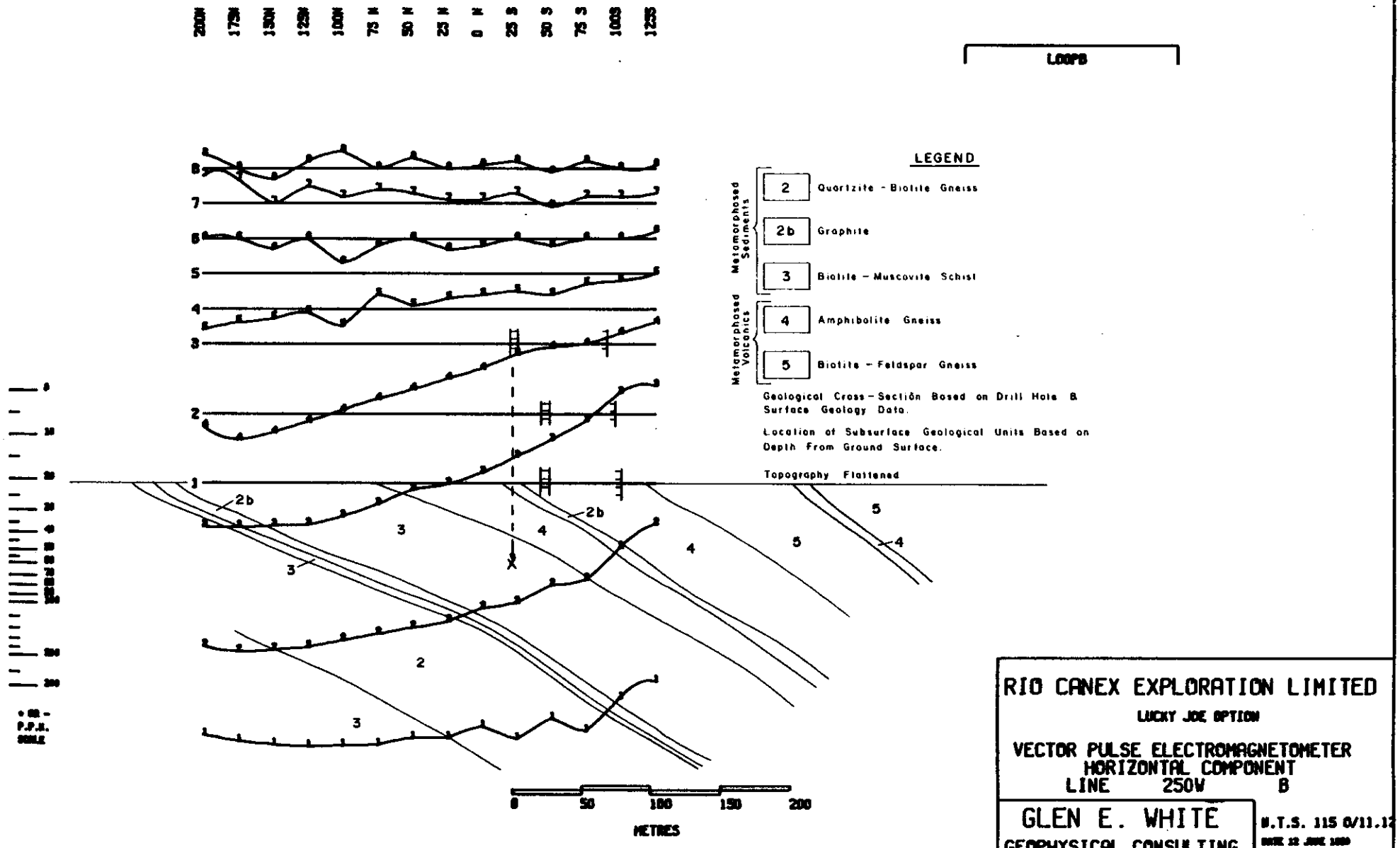
VECTOR PULSE ELECTROMAGNETOMETER
VERTICAL COMPONENT
LINE 250W A

GLEN E. WHITE
GEOPHYSICAL CONSULTING & SERVICES LTD.

N.T.S. 115 G/11,12

DATE 12 JUNE 1989

FIG.NO: 34



RIO CANEX EXPLORATION LIMITED

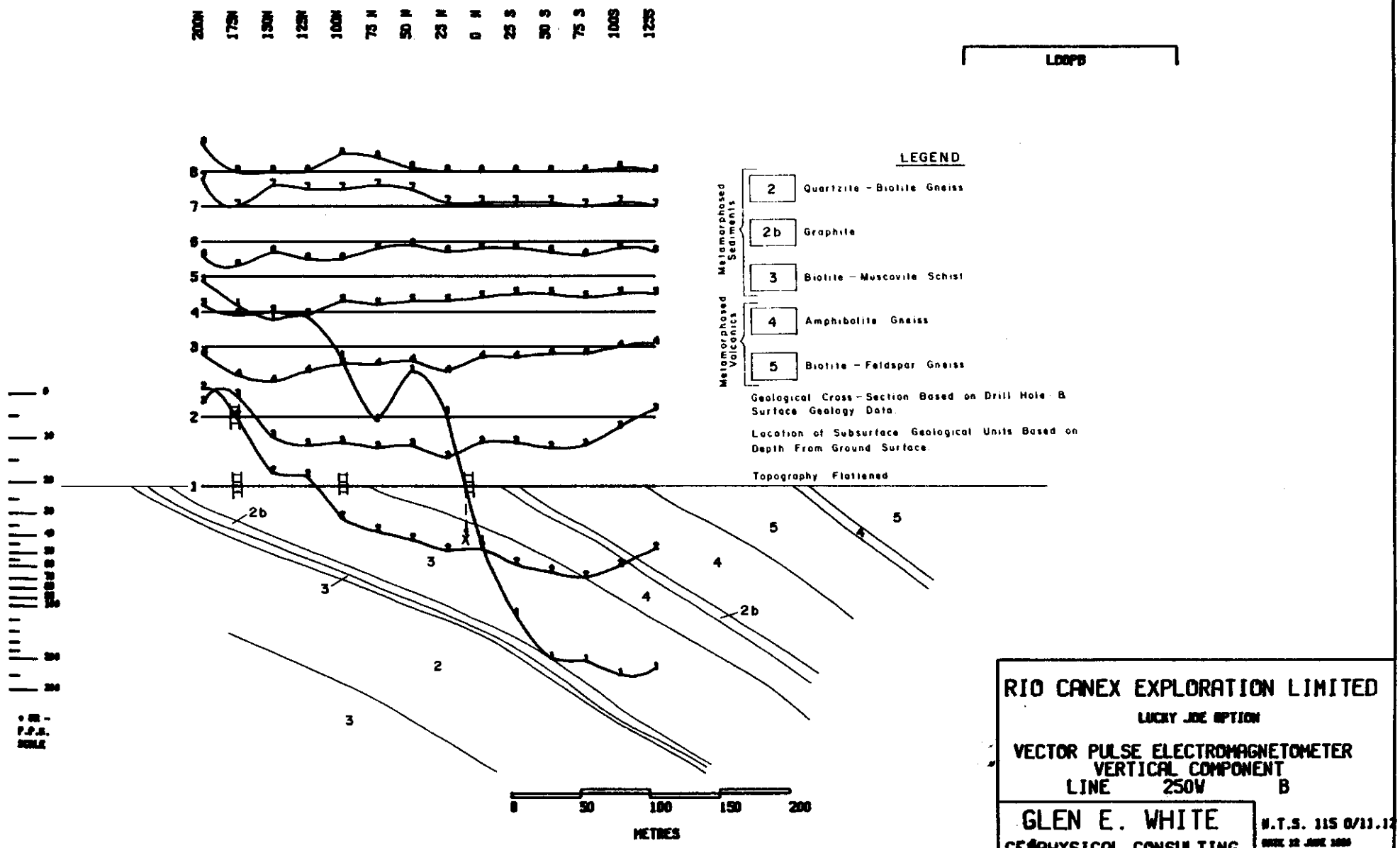
LUCKY JOE OPTION

VECTOR PULSE ELECTROMAGNETOMETER
HORIZONTAL COMPONENT
LINE 250W B

GLEN E. WHITE
GEOPHYSICAL CONSULTING & SERVICES LTD.

N.T.S. 115 G/11,12

FIG.NO: 35



RIO CANEX EXPLORATION LIMITED

LUCKY JOE OPTION

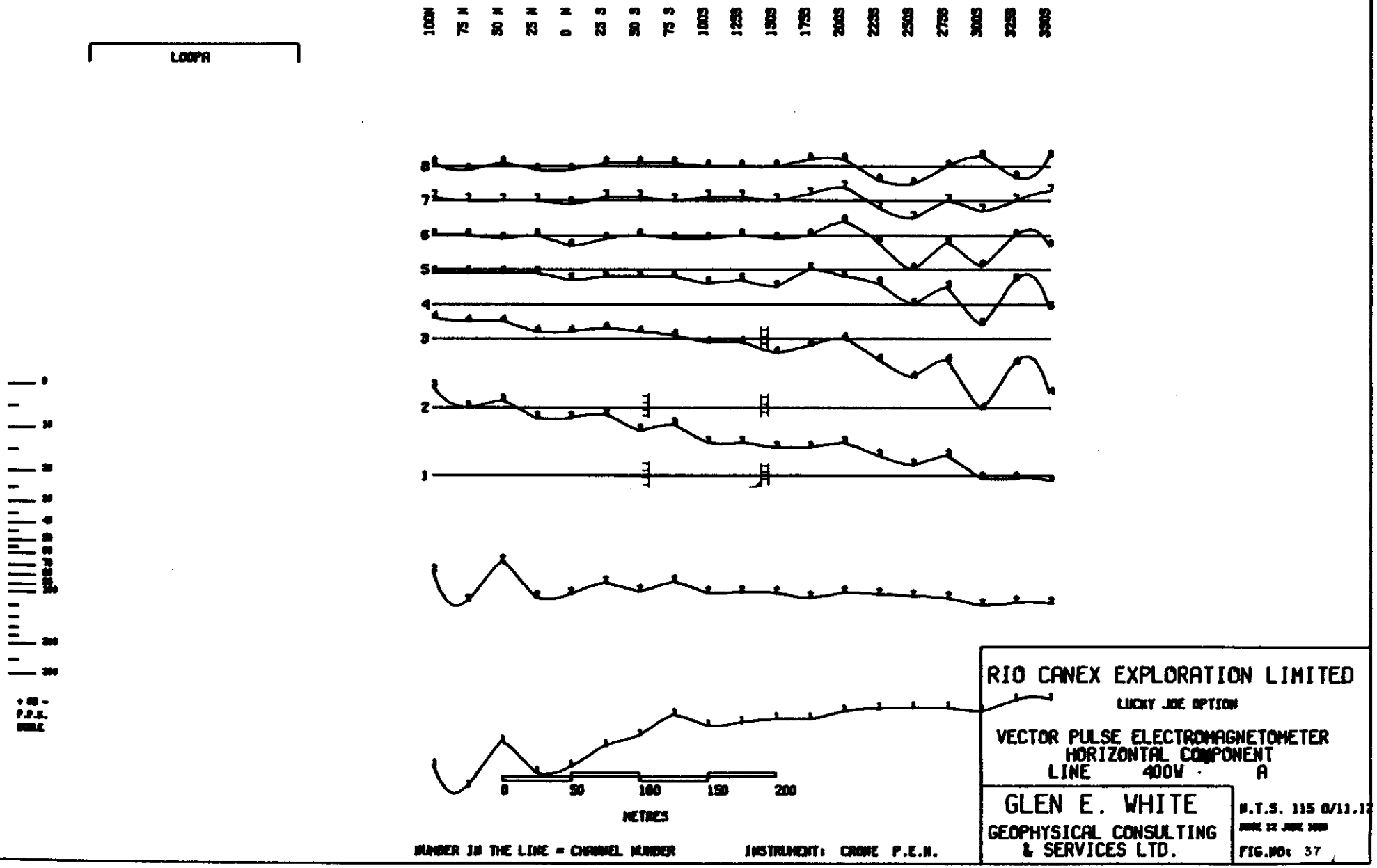
VECTOR PULSE ELECTROMAGNETOMETER
VERTICAL COMPONENT
LINE 250W B

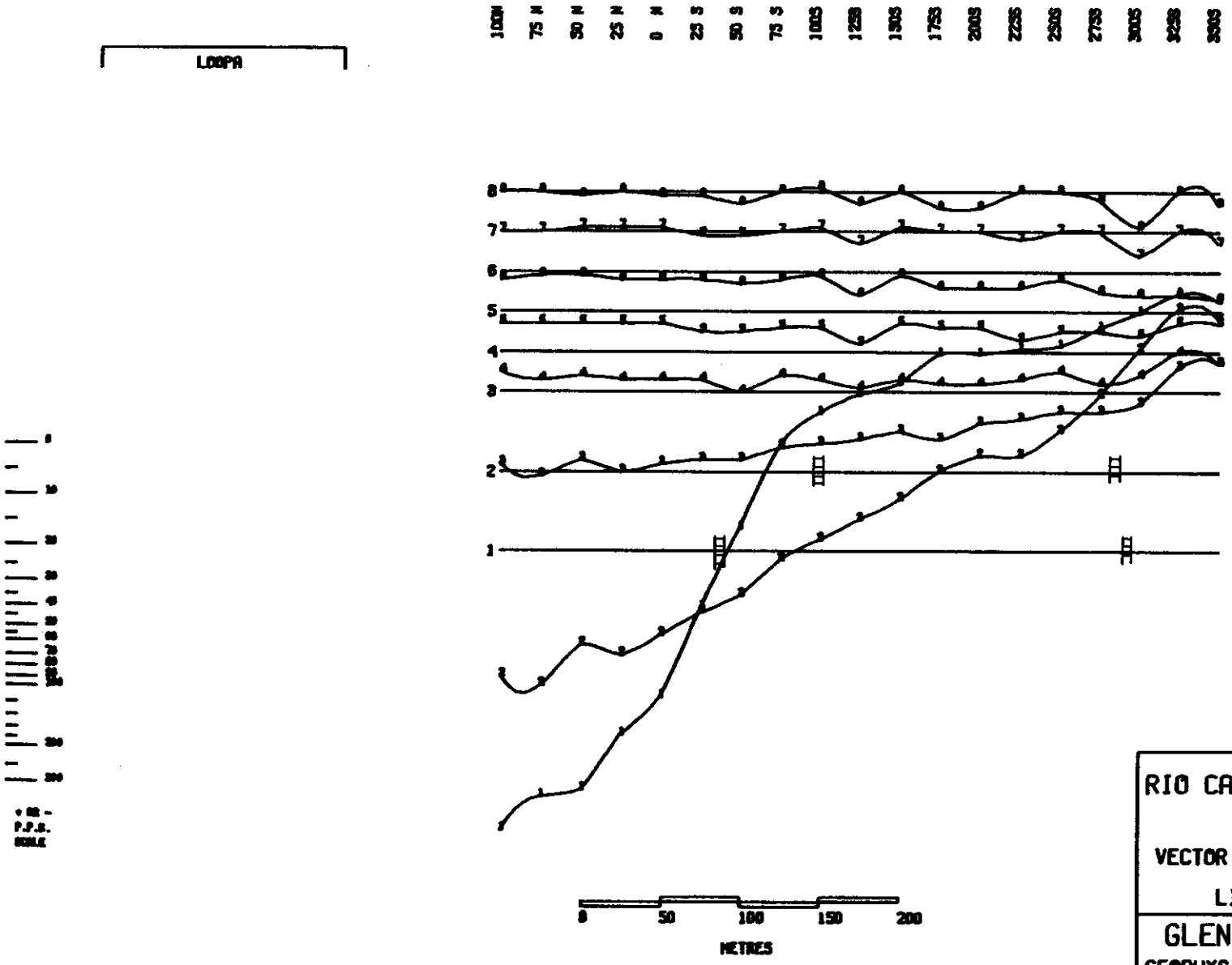
GLEN E. WHITE
GEOPHYSICAL CONSULTING & SERVICES LTD.

N.T.S. 115 O/11,12

DATE 22 JUNE 1989

FIG.NO: 36


LOOP A
100N
75 N
50 N
25 N
0
25 S
50 S
75 S
100S
125S
150S
175S
200S
225S
250S
275S
300S
325S
350S
8
7
6
5
4
3
2
1
0
50
100
150
200
0
50
100
150
200
METRES
NUMBER IN THE LINE = CHANNEL NUMBER
INSTRUMENT: CRONE P.E.M.
RIO CANEX EXPLORATION LIMITED
LUCKY JOE OPTION
VECTOR PULSE ELECTROMAGNETOMETER
HORIZONTAL COMPONENT
LINE 400W · A
GLEN E. WHITE
GEOPHYSICAL CONSULTING
& SERVICES LTD.
N.T.S. 115 O/11.12
FIG.NO: 37



RIO CANEX EXPLORATION LIMITED

LUCKY JOE OPTION

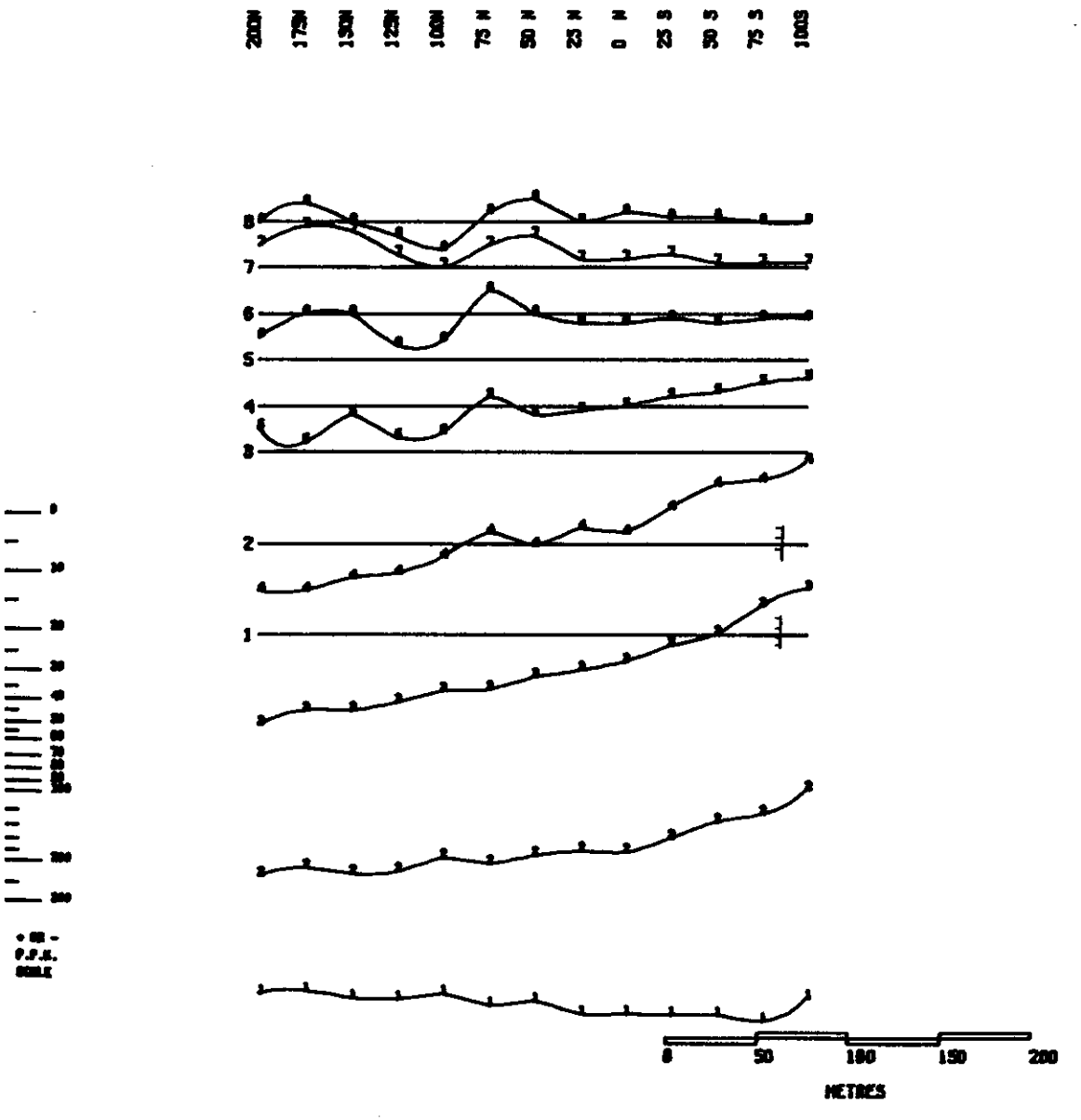
VECTOR PULSE ELECTROMAGNETOMETER
VERTICAL COMPONENT
LINE 400W A

GLEN E. WHITE
GEOPHYSICAL CONSULTING
& SERVICES LTD.

N.T.S. 115 O/11.12

DATE 22 JUNE 1988

FIG.NO: 38



RIO CANEX EXPLORATION LIMITED

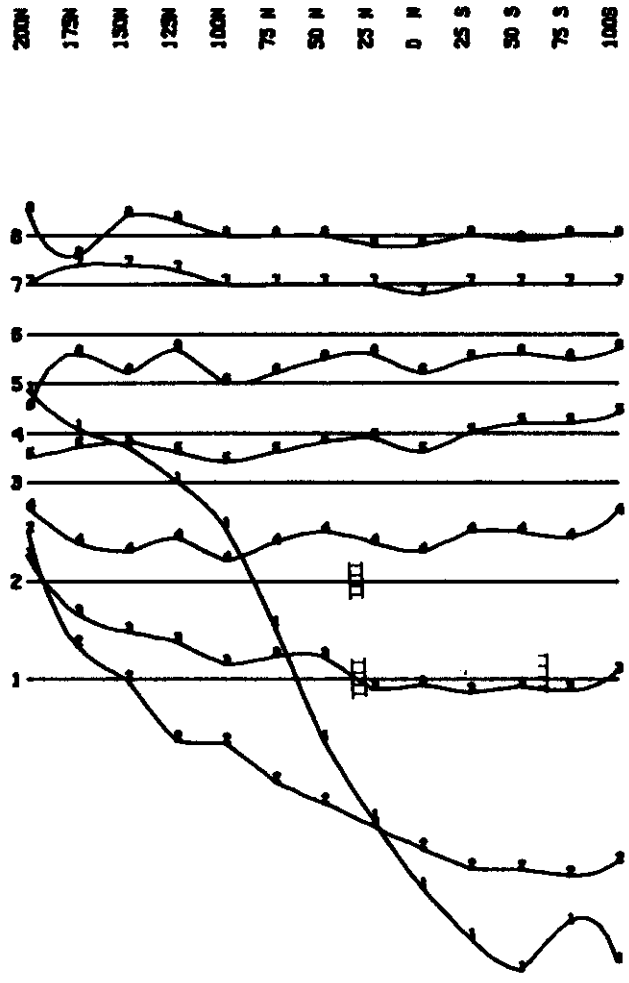
LUCKY JOE OPTION

VECTOR PULSE ELECTROMAGNETOMETER
HORIZONTAL COMPONENT
LINE 400W B

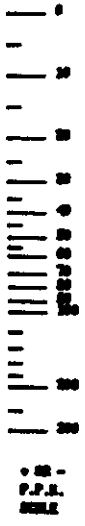
GLEN E. WHITE
GEOPHYSICAL CONSULTING
& SERVICES LTD.

N.T.S. 115 G/11,12

FIG.NO: 39



LOOP B



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

RIO CANEX EXPLORATION LIMITED

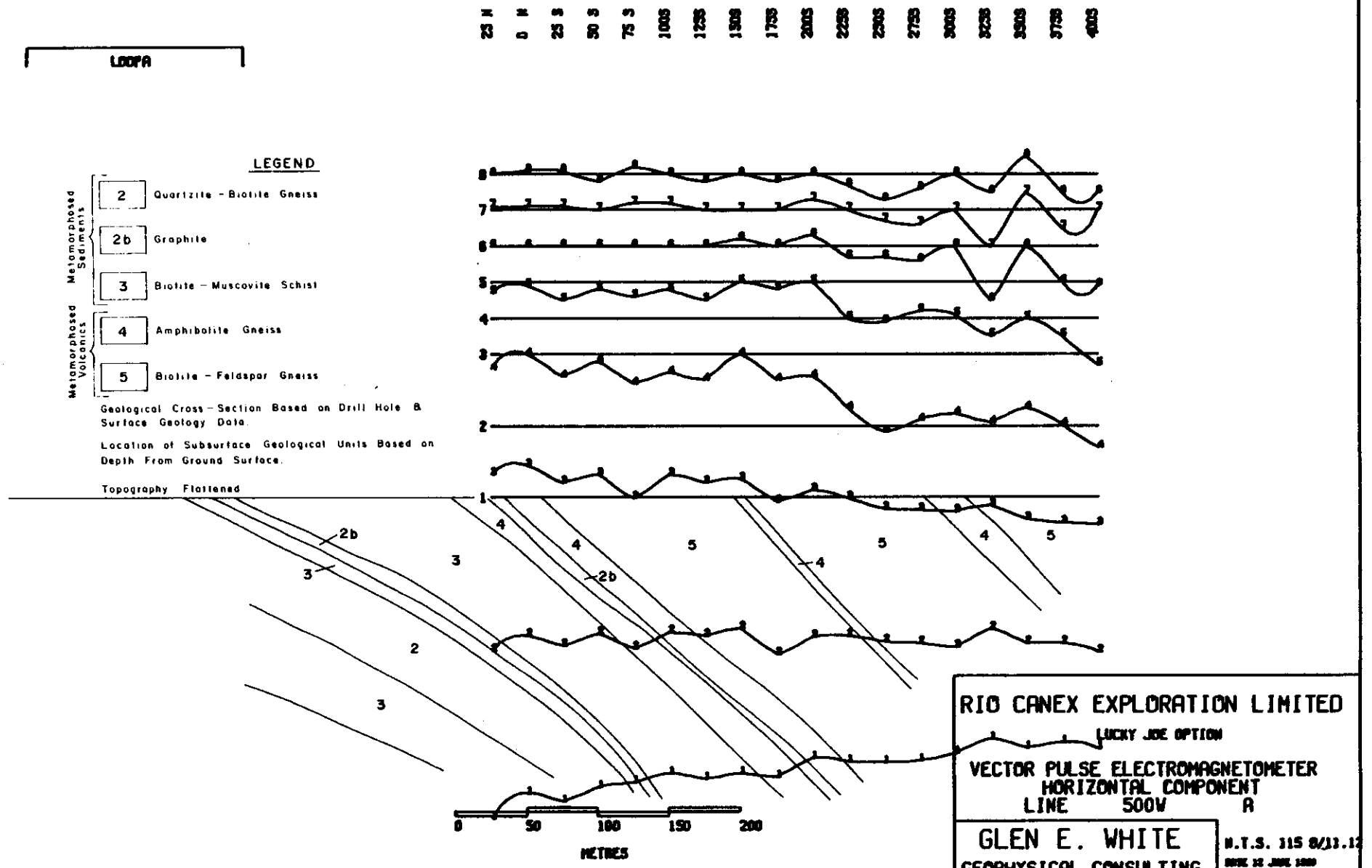
LUCKY JOE OPTION

VECTOR PULSE ELECTROMAGNETOMETER
VERTICAL COMPONENT
LINE 400W B

GLEN E. WHITE
GEOPHYSICAL CONSULTING
& SERVICES LTD.

N.T.S. 115 O/11.12

FIG.NO: 40



RIO CANEX EXPLORATION LIMITED

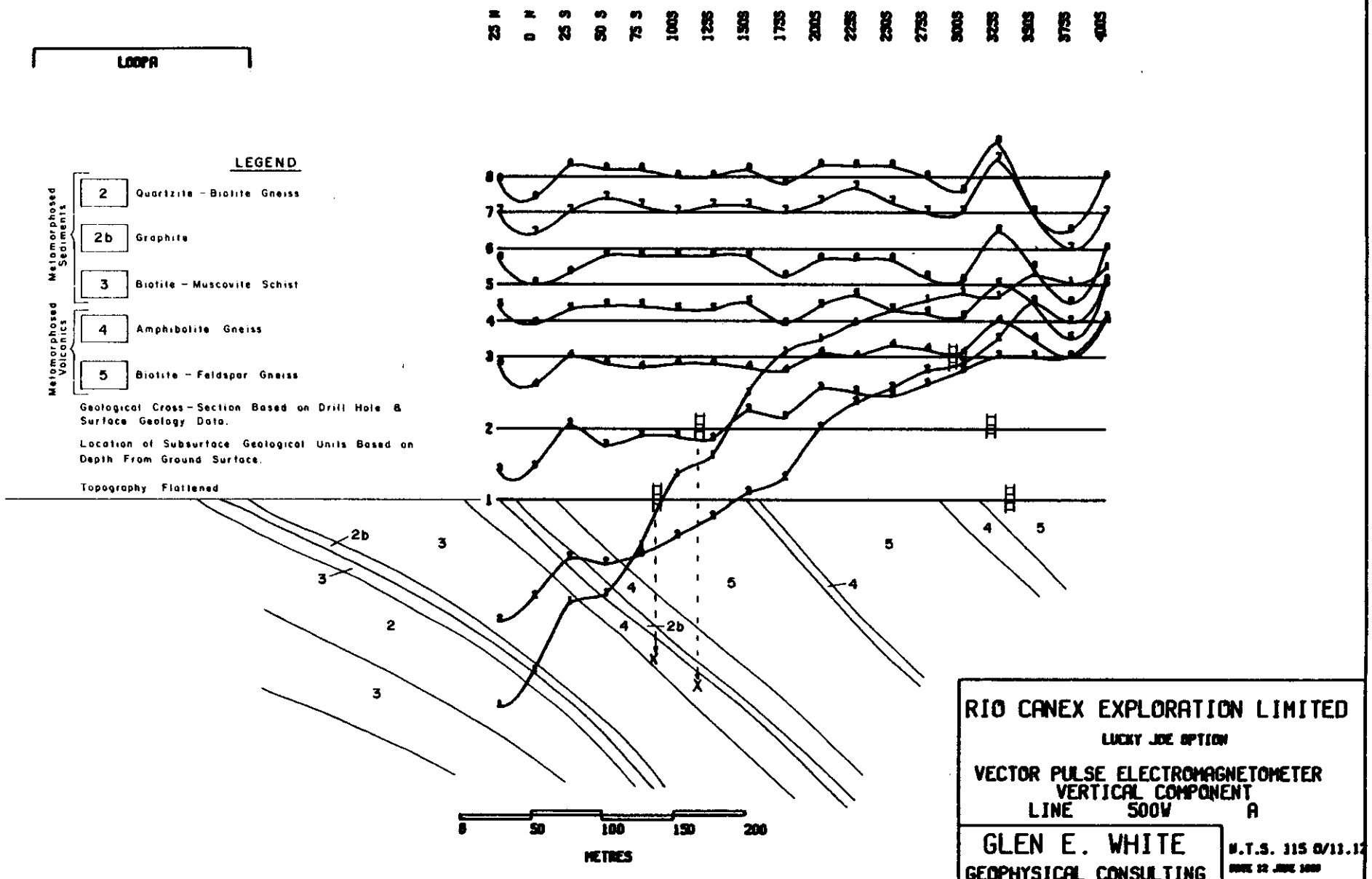
LUCKY JOE OPTION

VECTOR PULSE ELECTROMAGNETOMETER
HORIZONTAL COMPONENT
LINE 500W A

GLEN E. WHITE
GEOPHYSICAL CONSULTING & SERVICES LTD.

N.T.S. 115 G/11.12

FIG.NO: 41



RIO CANEX EXPLORATION LIMITED

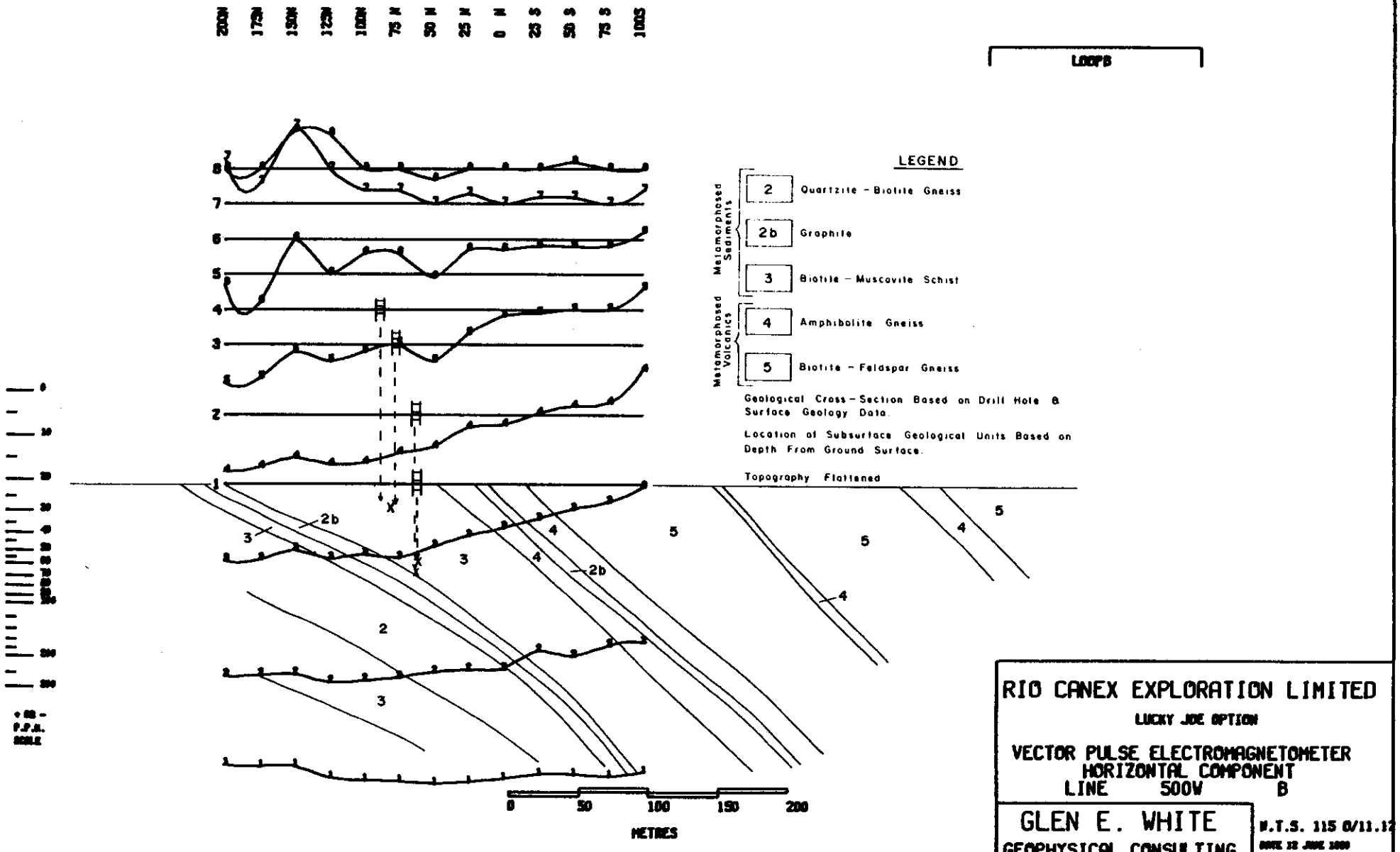
LUCKY JOE OPTION

VECTOR PULSE ELECTROMAGNETOMETER
VERTICAL COMPONENT
LINE 500W A

GLEN E. WHITE
GEOPHYSICAL CONSULTING & SERVICES LTD.

N.T.S. 115 G/11,12

FIG.NO: 42



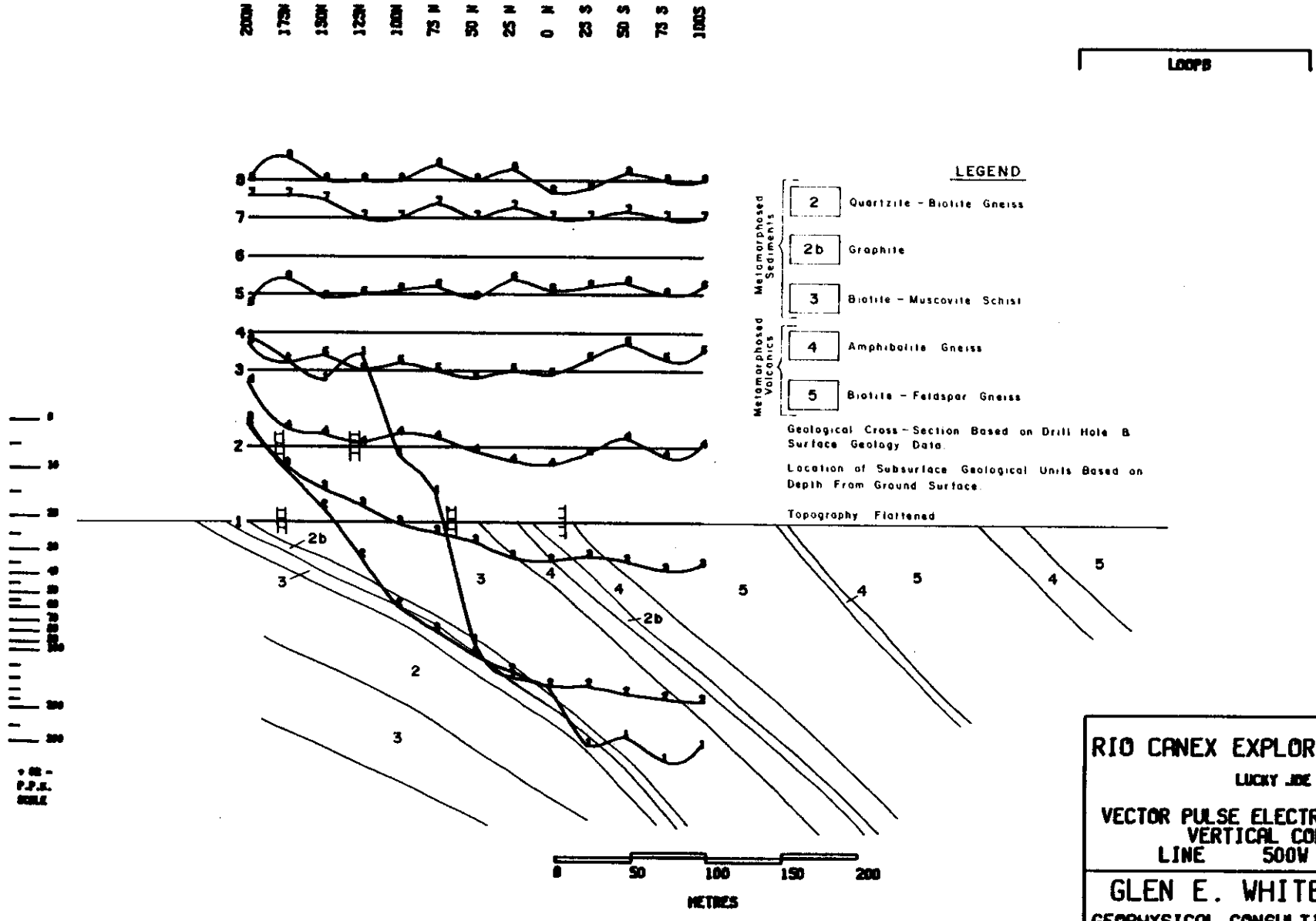
RIO CANEX EXPLORATION LIMITED

LUCKY JOE OPTION

VECTOR PULSE ELECTROMAGNETOMETER
HORIZONTAL COMPONENT
LINE 500W B

GLEN E. WHITE
GEOPHYSICAL CONSULTING & SERVICES LTD.

N.T.S. 115 O/11,12
DATE 22 JUNE 1990
FIG.NO: 43



RIO CANEX EXPLORATION LIMITED

LUCKY JOE OPTION

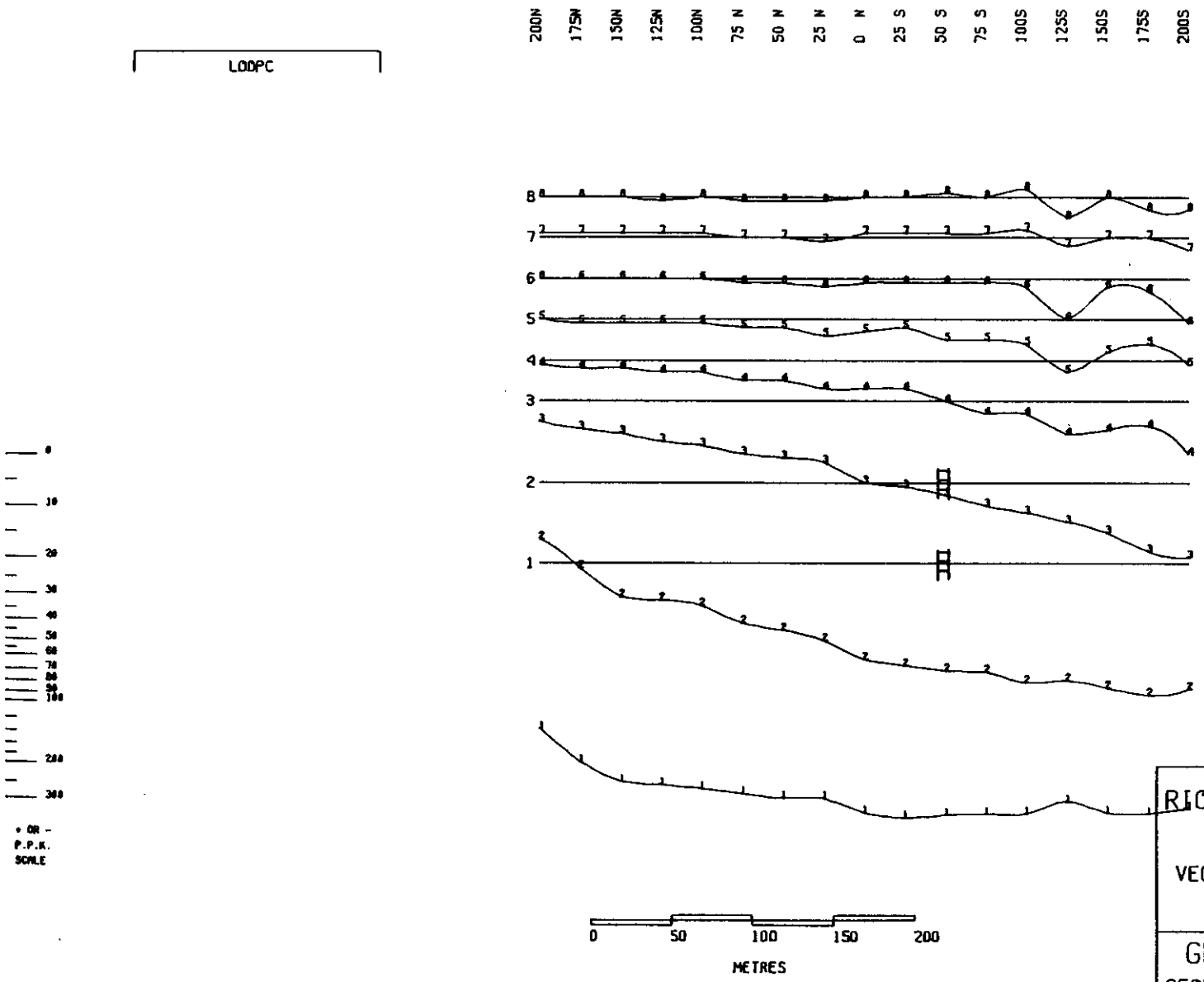
VECTOR PULSE ELECTROMAGNETOMETER
VERTICAL COMPONENT
LINE 500W B

GLEN E. WHITE
GEOPHYSICAL CONSULTING & SERVICES LTD.

N.T.S. 115 G/11,12

DATE 12 JUNE 1980

FIG.NO: 44



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

RIO CANEX EXPLORATION LIMITED

LUCKY JOE OPTION

VECTOR PULSE ELECTROMAGNETOMETER
HORIZONTAL COMPONENT
LINE 600W C

GLEN E. WHITE
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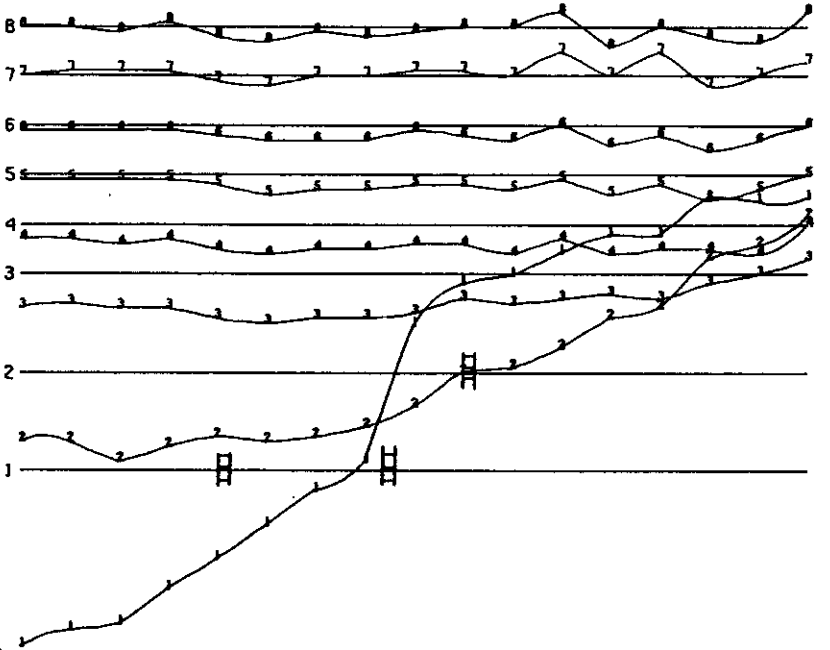
N.T.S. 115 O/11.12

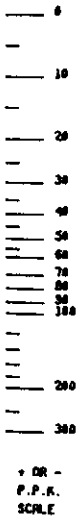
DATE 12 JUNE 1986

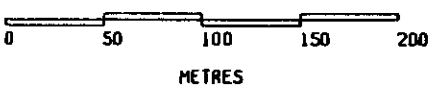
FIG.NO: 45

LOOPC

200W 175W 150W 125W 100W 75 W 50 W 25 W 0 W 25 S 50 S 75 S 100S 125S 150S 175S 200S







NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

RIO CANEX EXPLORATION LIMITED

LUCKY JOE OPTION

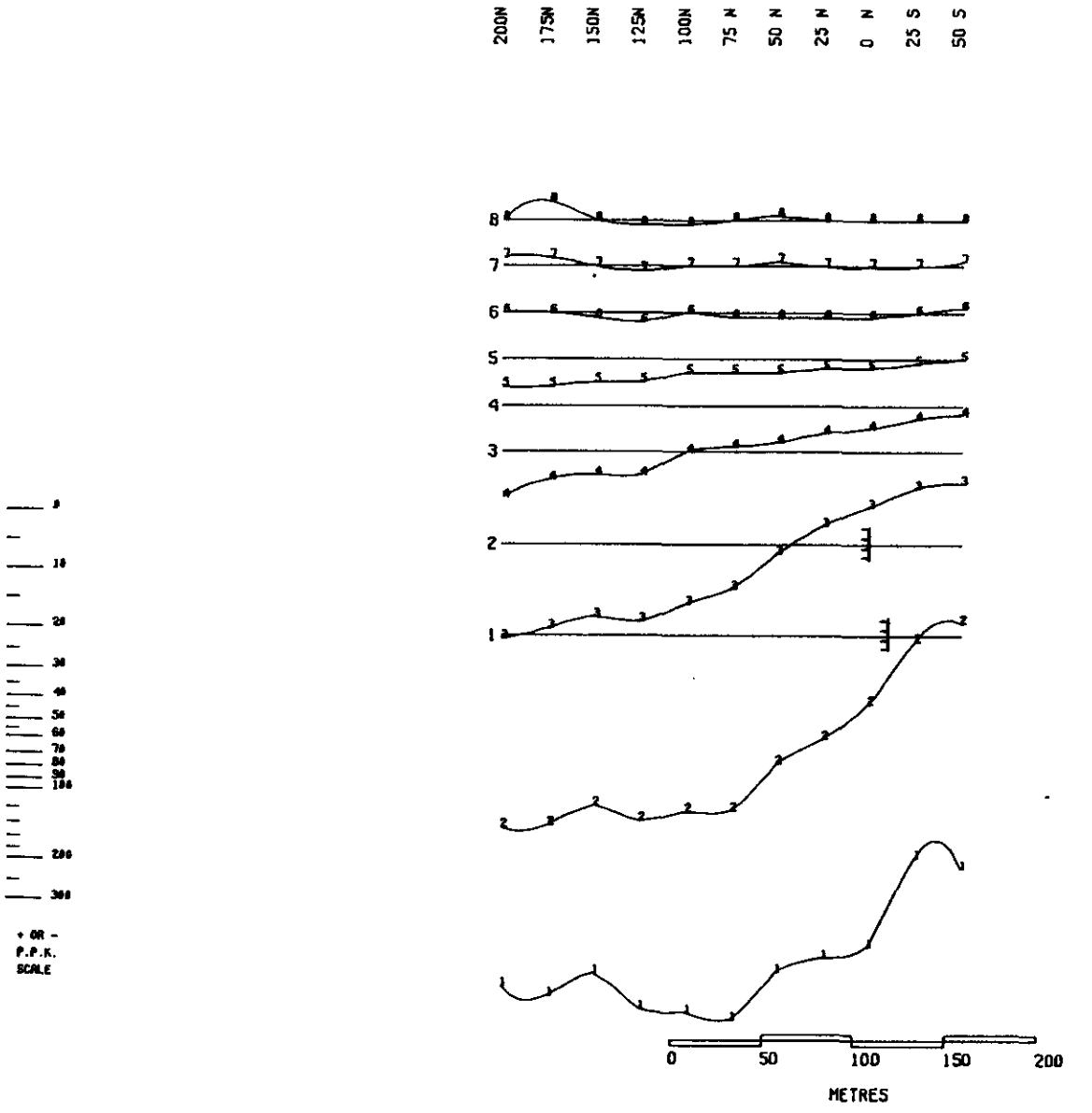
VECTOR PULSE ELECTROMAGNETOMETER
VERTICAL COMPONENT
LINE 600W C

GLEN E. WHITE
GEOPHYSICAL CONSULTING
& SERVICES LTD.

N.T.S. 115 O/11.12

DATE 12 JUNE 1988

FIG.NO: 46



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

RIO CANEX EXPLORATION LIMITED

LUCKY JOE OPTION

VECTOR PULSE ELECTROMAGNETOMETER
HORIZONTAL COMPONENT
LINE 600W D

GLEN E. WHITE
GEOPHYSICAL CONSULTING
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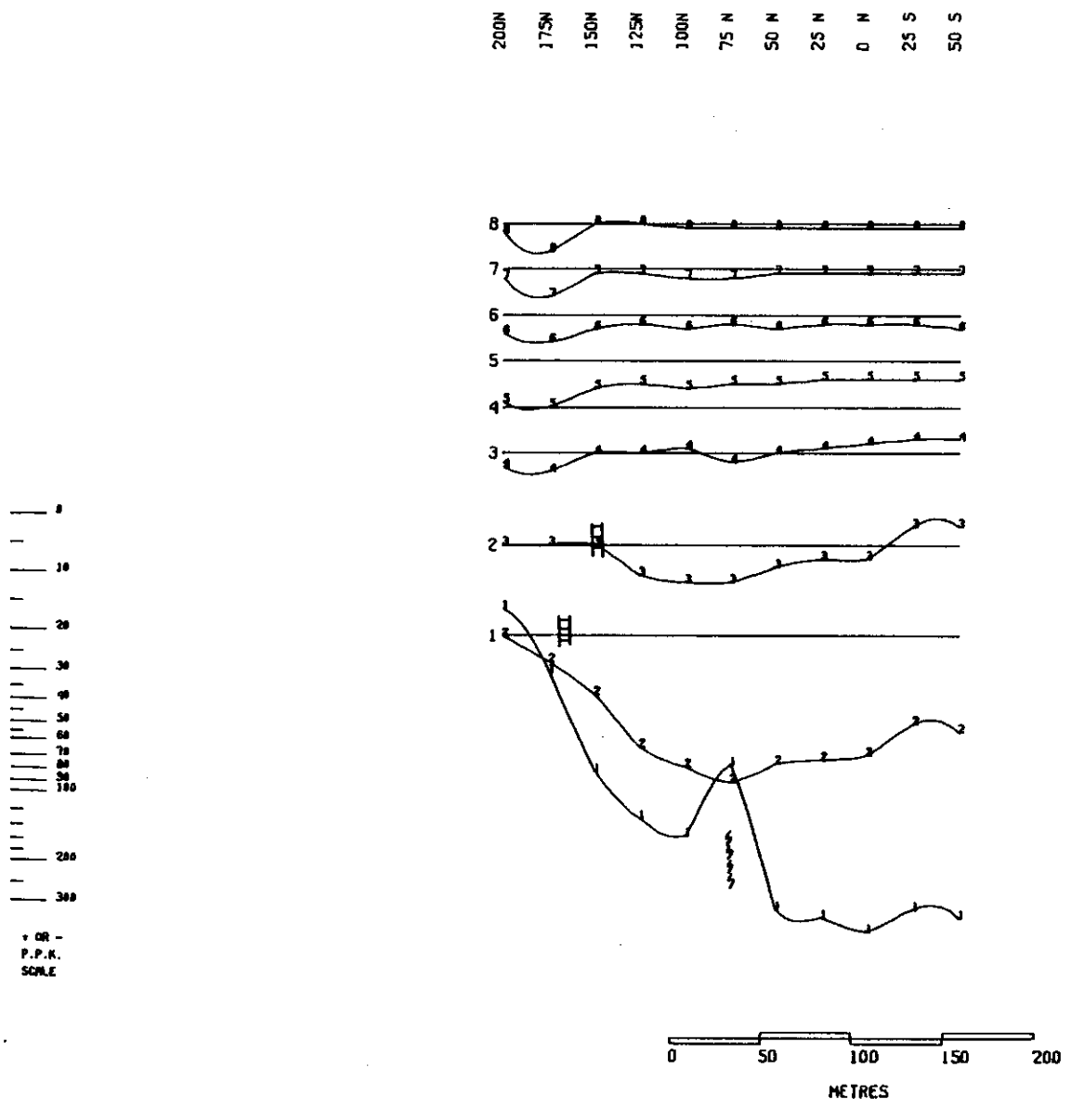
N.T.S. 115 O/11.12

DATE 12 JUNE 1980

FIG.NO: 47



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

RIO CANEX EXPLORATION LIMITED

LUCKY JOE OPTION

VECTOR PULSE ELECTROMAGNETOMETER
VERTICAL COMPONENT
LINE 600W D

GLEN E. WHITE
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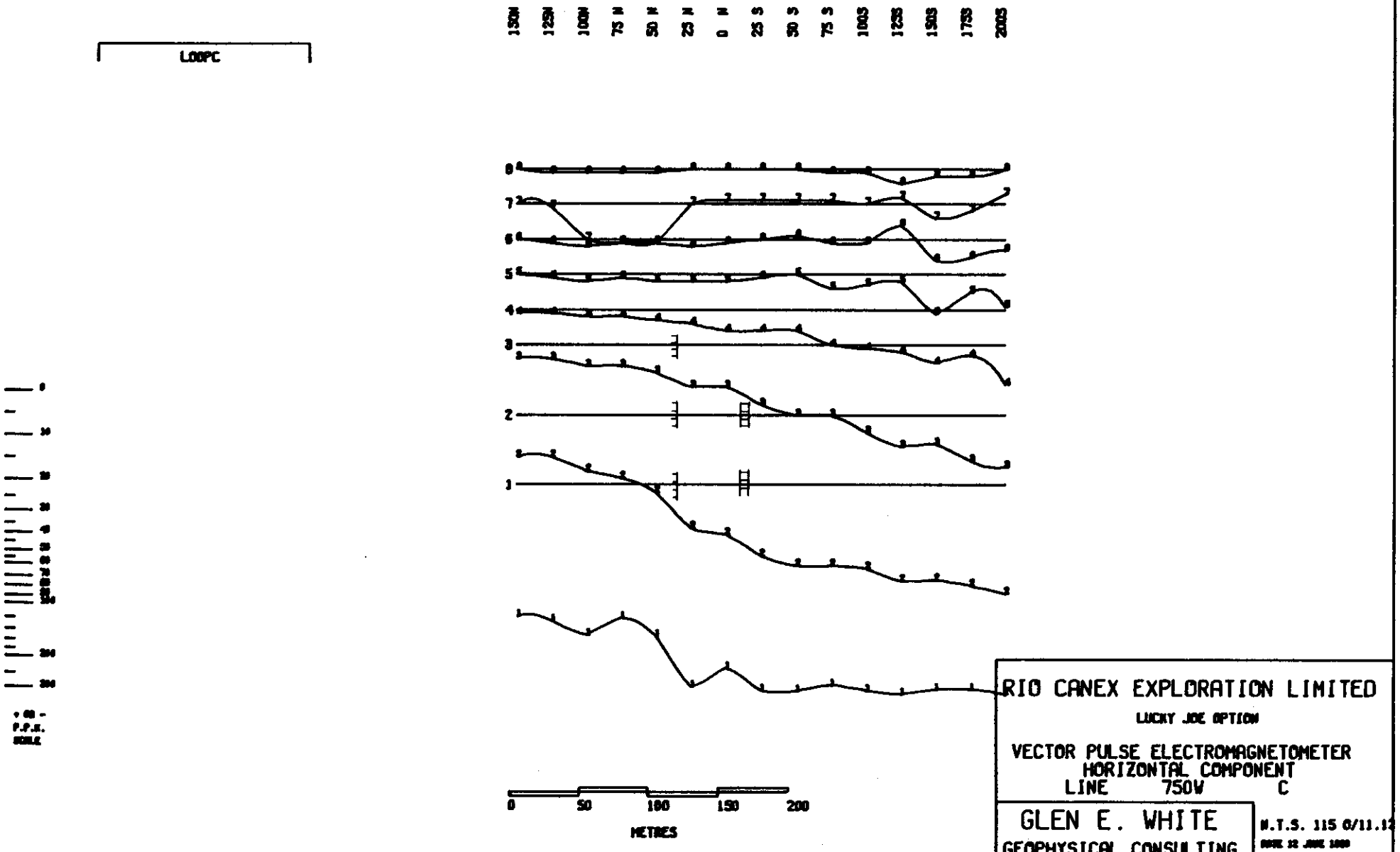
& SERVICES LTD.

N.T.S. 115 O/11.12

DATE 12 JUNE 1988

FIG.NO: 48



RIO CANEX EXPLORATION LIMITED

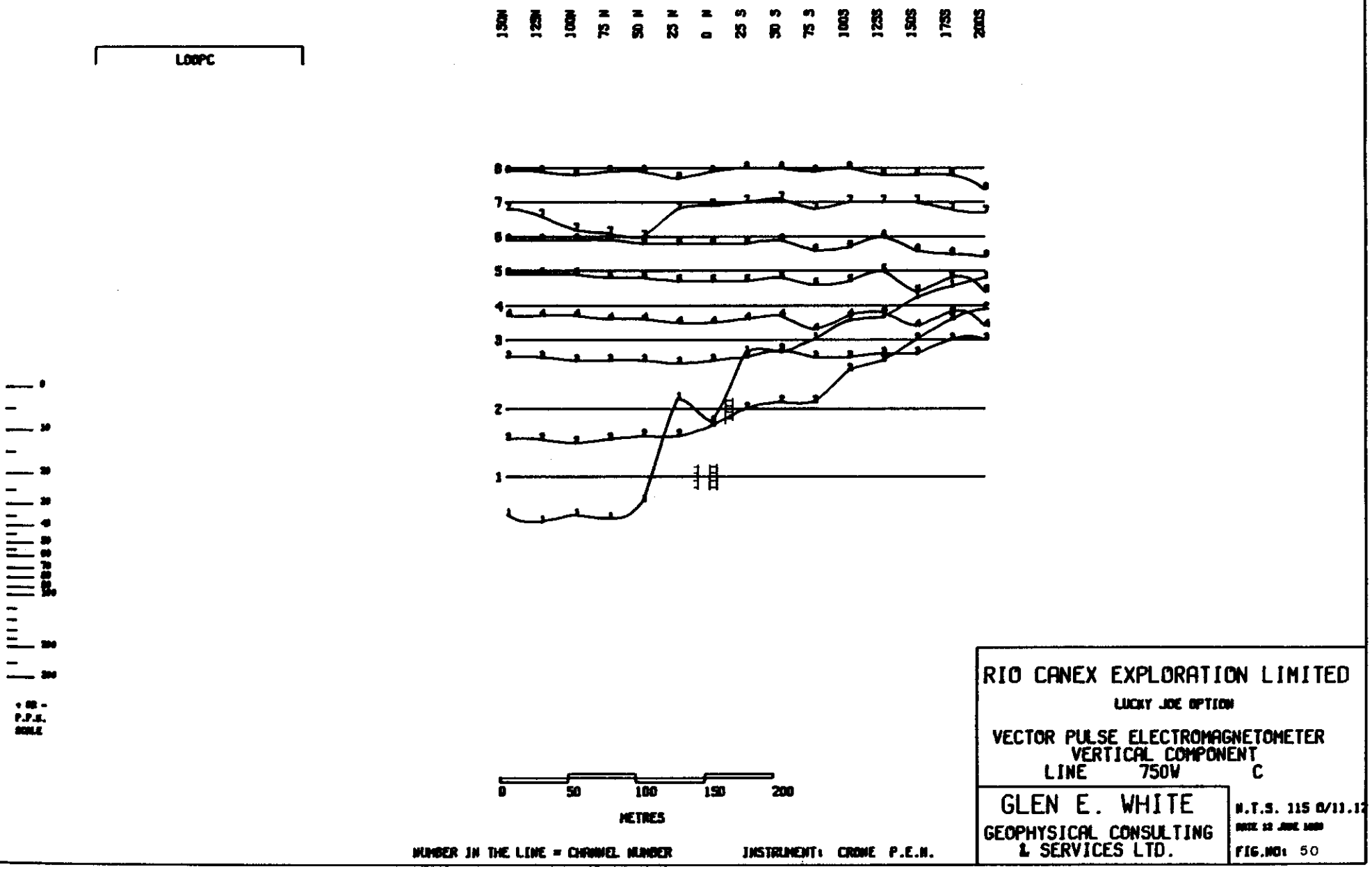
LUCKY JOE OPTION

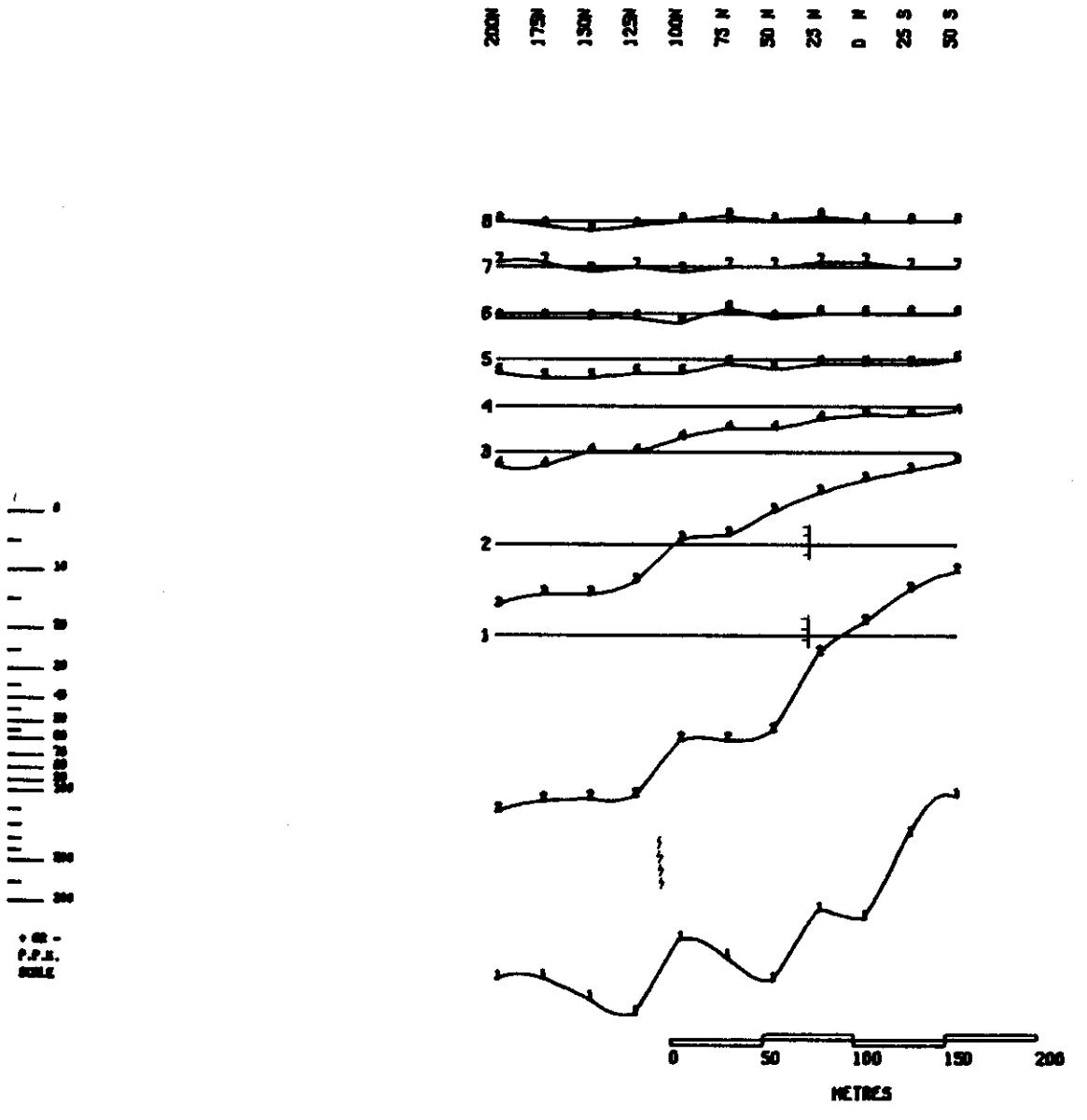
VECTOR PULSE ELECTROMAGNETOMETER
HORIZONTAL COMPONENT
LINE 750W C

GLEN E. WHITE
GEOPHYSICAL CONSULTING
& SERVICES LTD.

N.T.S. 115 G/11.12

FIG.NO: 49


LOOPC
1500N
1250N
1000N
750 N
500 N
250 N
0
250 S
500 S
750 S
1000
1250
1500
1750
2000
8
7
6
5
4
3
2
1
0
50
100
150
200
METRES
NUMBER IN THE LINE = CHANNEL NUMBER
INSTRUMENT: CRONE P.E.M.
RIO CANEX EXPLORATION LIMITED
LUCKY JOE OPTION
VECTOR PULSE ELECTROMAGNETOMETER
VERTICAL COMPONENT
LINE 750W C
GLEN E. WHITE
GEOPHYSICAL CONSULTING
& SERVICES LTD.
N.T.S. 115 O/11.12
FIG.NO: 50



RIO CANEX EXPLORATION LIMITED

LUCKY JOE OPTION

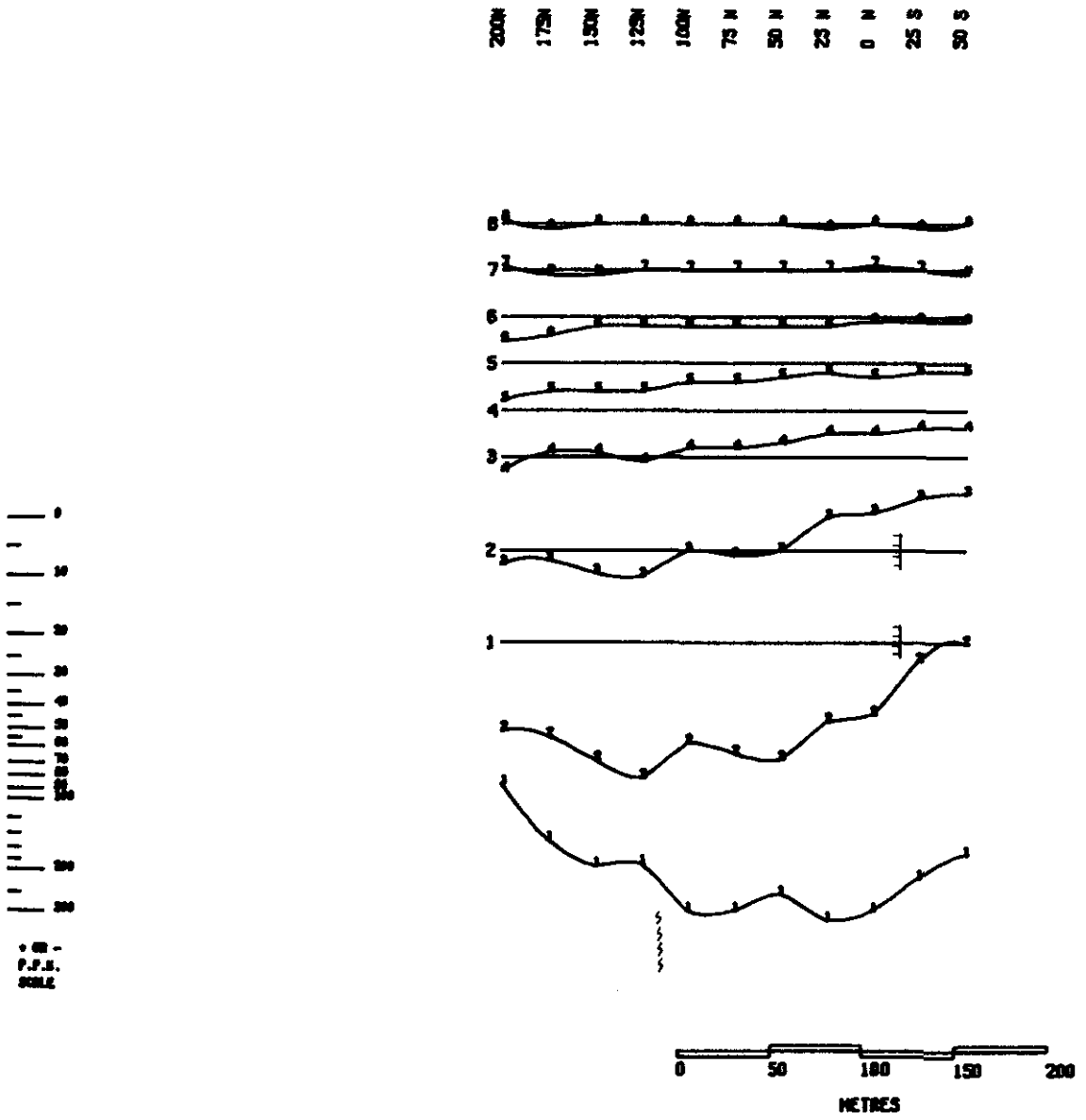
VECTOR PULSE ELECTROMAGNETOMETER
HORIZONTAL COMPONENT
LINE 750W 0

GLEN E. WHITE
GEOPHYSICAL CONSULTING
& SERVICES LTD.

N.T.S. 115 O/13.12

DATE 22 JUNE 1988

FIG.NO: 5!



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

RIO CANEX EXPLORATION LIMITED

LUCKY JOE OPTION

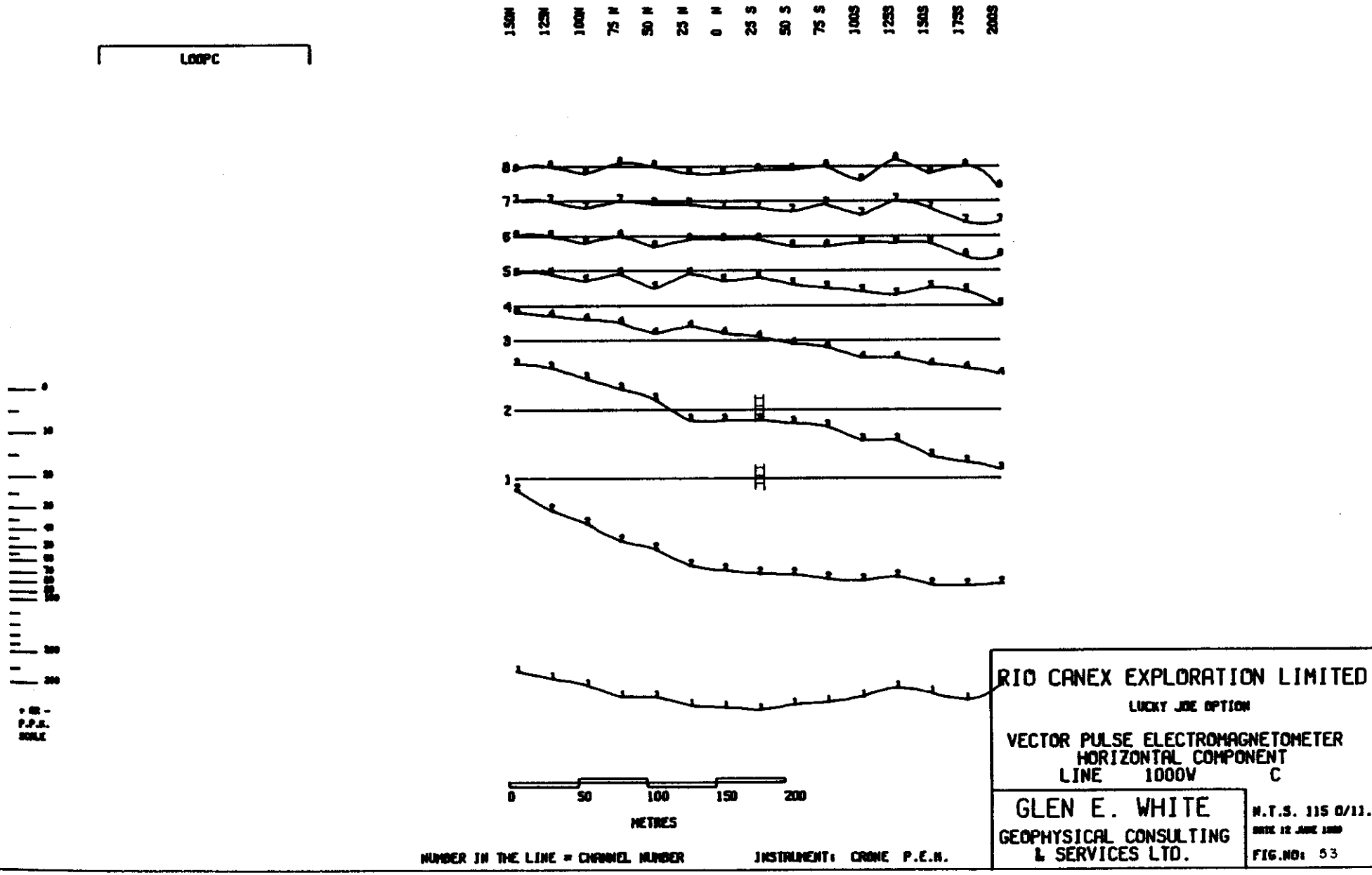
VECTOR PULSE ELECTROMAGNETOMETER
VERTICAL COMPONENT
LINE 750W 0

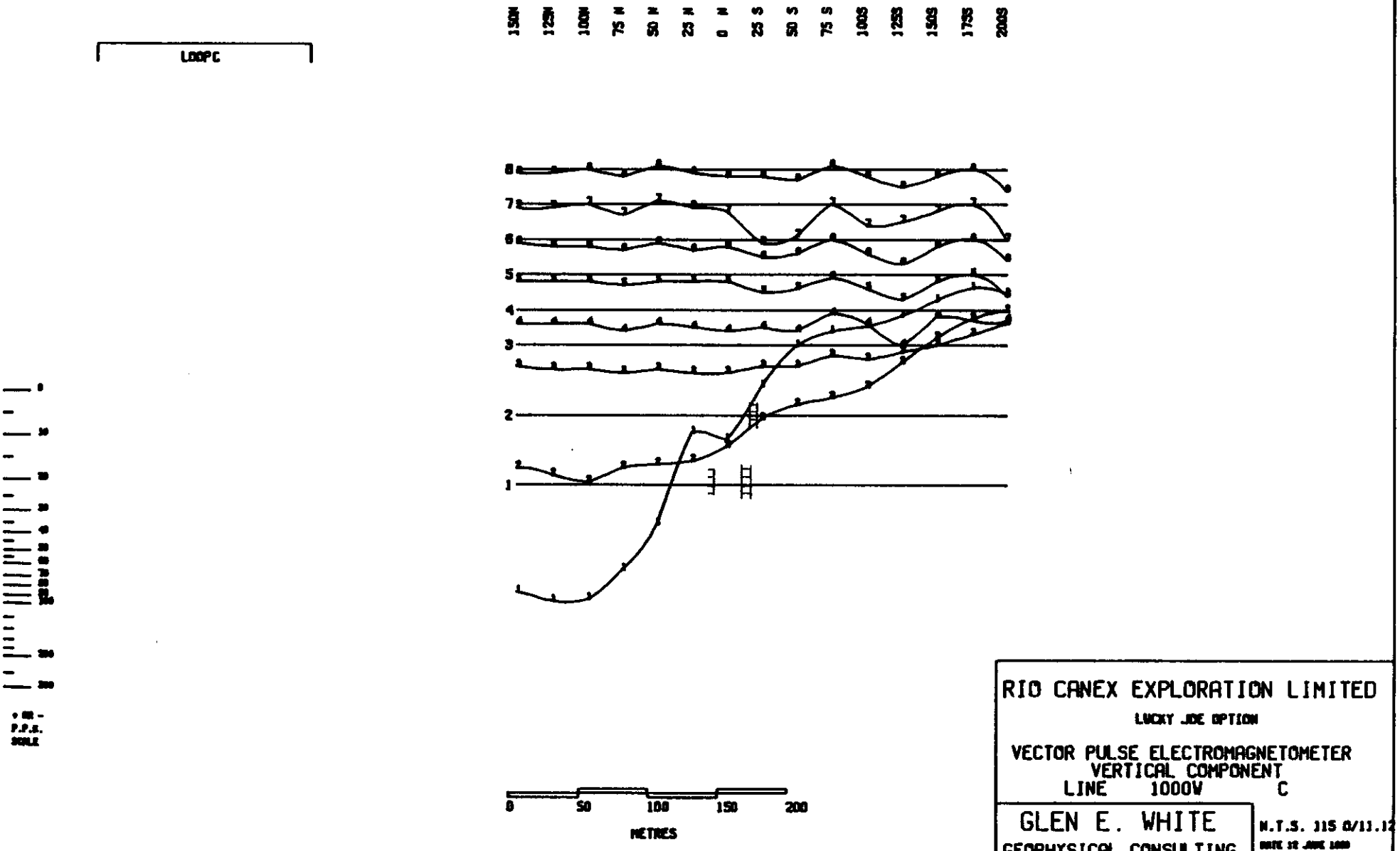
GLEN E. WHITE
GEOPHYSICAL CONSULTING
& SERVICES LTD.

N.T.S. 115 O/11.12

DATE 12 JUNE 1989

FIG.NO: 52


LOOPC
150N
125N
100N
75 N
50 N
25 N
0 N
25 S
50 S
75 S
100S
125S
150S
175S
200S
8
7
6
5
4
3
2
1
0
50
100
150
200
METRES
NUMBER IN THE LINE = CHANNEL NUMBER
INSTRUMENT: CRONE P.E.M.
RIO CANEX EXPLORATION LIMITED
LUCKY JOE OPTION
VECTOR PULSE ELECTROMAGNETOMETER
HORIZONTAL COMPONENT
LINE 1000W C
GLEN E. WHITE
GEOPHYSICAL CONSULTING
& SERVICES LTD.
N.T.S. 115 O/11.12
FIG.NO: 53



RIO CANEX EXPLORATION LIMITED

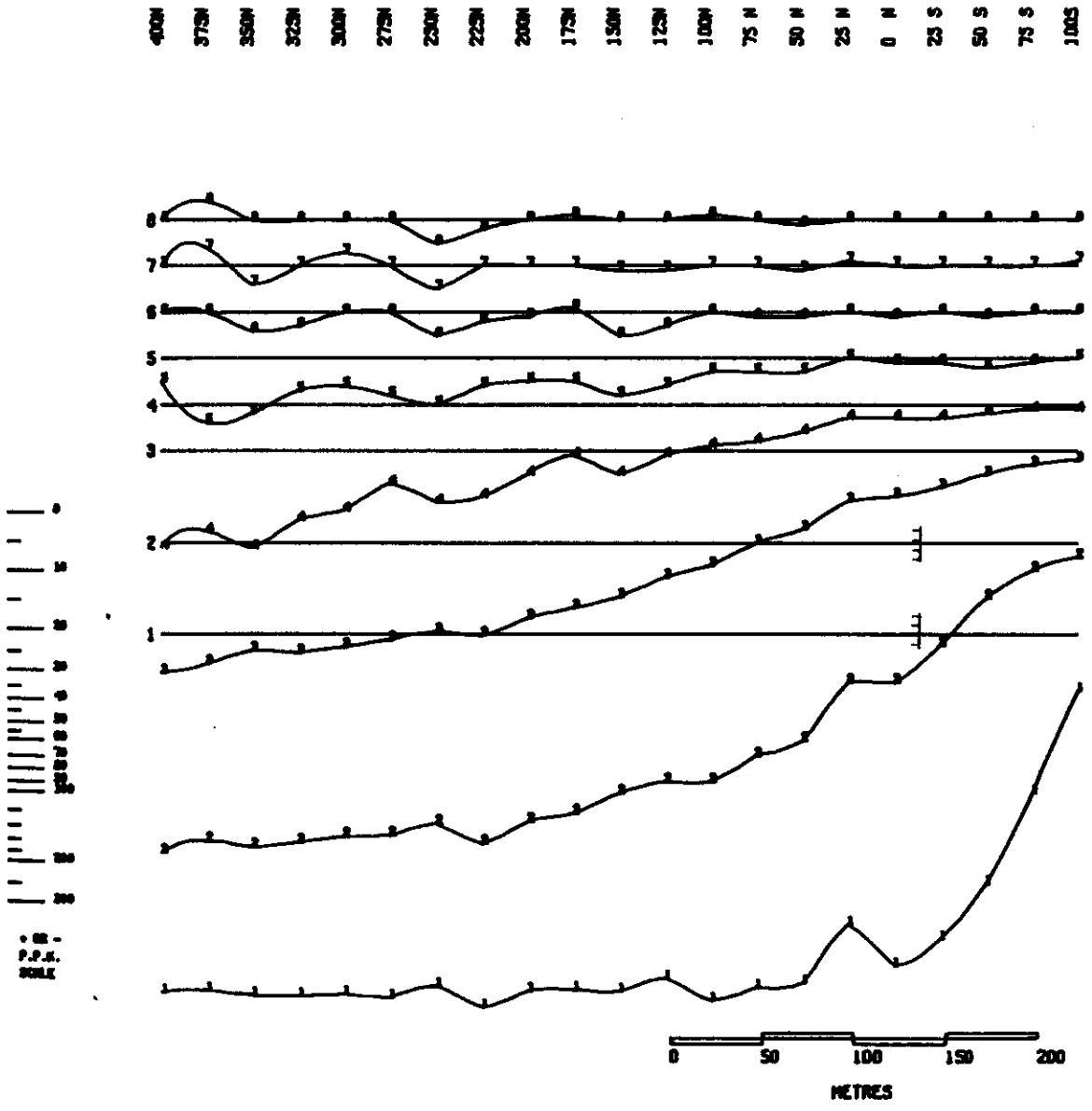
LUCKY JOE OPTION

VECTOR PULSE ELECTROMAGNETOMETER
VERTICAL COMPONENT
LINE 1000W C

GLEN E. WHITE
GEOPHYSICAL CONSULTING
& SERVICES LTD.

N.T.S. 115 G/11,12

FIG.NO: 54



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

RIO CANEX EXPLORATION LIMITED

LUCKY JOE OPTION

VECTOR PULSE ELECTROMAGNETOMETER
HORIZONTAL COMPONENT
LINE 1000W D

GLEN E. WHITE
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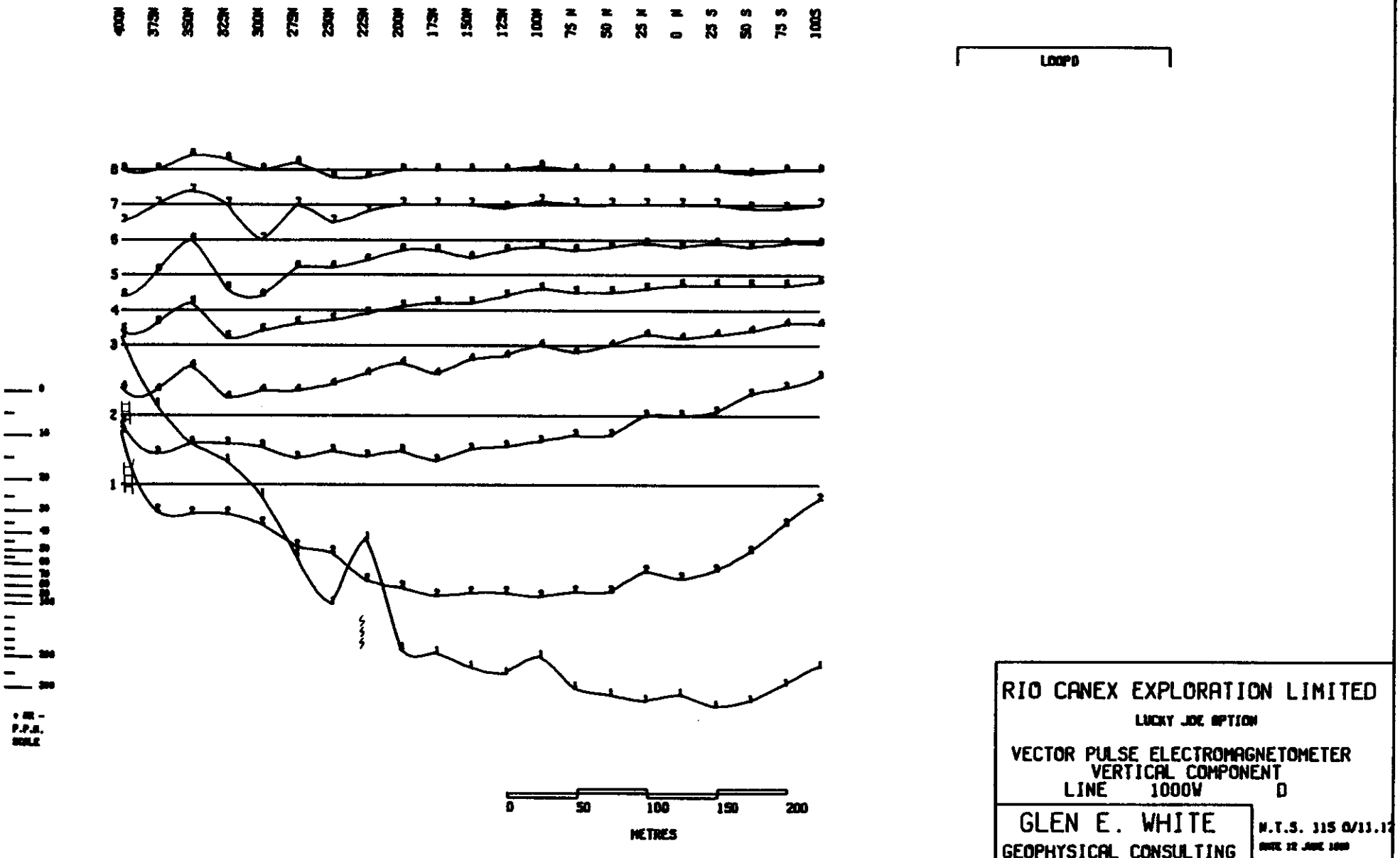
& SERVICES LTD.

N.T.S. 115 G/11,12

DATE 12 JUNE 1989

FIG.NO: 55



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

RIO CANEX EXPLORATION LIMITED

LUCKY JOE OPTION

VECTOR PULSE ELECTROMAGNETOMETER
VERTICAL COMPONENT
LINE 1000W D

GLEN E. WHITE
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& SERVICES LTD.

N.T.S. 115 G/11.12

DATE 12 JUNE 1989

FIG.NO: 56

CHANNEL			1	2	3	4	5	6	7	8	GAIN
LINE	STAT		LOOP	A							
250E	100N	VER:	-130	-110	-32	-11	-5	-2	1	0	1.00
		HOR:	-240	-70	-18	-7	-2	0	1	0	
250E	75N	VER:	-120	-110	-32	-11	-4	-2	0	0	1.00
		HOR:	-280	-86	-20	-7	-2	0	1	0	
250E	50N	VER:	-130	-94	-32	-10	-4	-1	1	-1	1.00
		HOR:	-230	-75	-22	-8	-2	-1	0	0	
250E	25N	VER:	-74	-127	-41	-12	-5	-2	0	-1	0.94
		HOR:	-361	-138	-34	-8	-1	1	1	0	
250E	0N	VER:	-76	-104	-39	-14	-5	-2	-1	-2	0.84
		HOR:	-357	-142	-38	-11	-3	-1	-1	-1	
250E	25S	VER:	-31	-92	-39	-13	-6	-3	-2	-1	0.76
		HOR:	-394	-157	-44	-13	-2	1	0	0	
250E	50S	VER:	-32	-74	-34	-14	-7	-2	-2	-2	0.67
		HOR:	-328	-149	-47	-16	-5	-1	-1	-2	
250E	75S	VER:	-14	-59	-29	-14	-7	-3	0	-1	0.57
		HOR:	-333	-166	-56	-19	-7	-1	-1	1	
250E	100S	VER:	44	-38	-26	-14	-8	-4	0	0	0.50
		HOR:	-300	-182	-62	-20	-4	0	0	-2	
250E	125S	VER:	44	-26	-24	-13	-8	-4	-2	-2	0.45
		HOR:	-288	-175	-62	-24	-6	-2	0	0	
250E	150S	VER:	94	-5	-20	-15	-7	-2	2	0	0.39
		HOR:	-333	-189	-71	-28	-12	-7	-2	-2	
250E	175S	VER:	111	8	-14	-14	-8	-5	2	-2	0.34
		HOR:	-279	-164	-70	-29	-8	0	5	2	
250E	200S	VER:	133	23	-6	-10	-10	-3	3	3	0.30
		HOR:	-280	-180	-76	-30	-6	0	3	0	
250E	225S	VER:	164	46	-7	-10	-7	-3	3	0	0.28
		HOR:	-267	-175	-78	-32	-10	0	0	-3	
250E	250S	VER:	170	58	-8	-12	-8	-4	4	0	0.24
		HOR:	-270	-187	-87	-33	-8	0	4	-4	
250E	275S	VER:	177	72	-4	-9	-9	-4	4	4	0.22
		HOR:	-268	-195	-90	-40	-13	-4	-4	-13	
250E	300S	VER:	175	70	-5	-15	-10	-10	-5	-5	0.20
		HOR:	-245	-175	-90	-40	-15	0	5	0	
250E	325S	VER:	155	66	-5	-11	-11	-5	-5	0	0.18
		HOR:	-222	-166	-88	-38	-11	0	0	-5	
250E	350S	VER:	175	56	-6	-12	-12	-12	0	-12	0.16
		HOR:	-225	-175	-93	-50	-18	-6	0	-12	
250E	375S	VER:	171	57	0	-7	-7	-7	7	0	0.14
		HOR:	-214	-171	-107	-57	-21	-14	-14	-14	
250E	400S	VER:	166	58	0	-8	-8	-8	0	0	0.12
		HOR:	-233	-183	-108	-58	-25	-8	-8	-16	
LINE	STAT		LOOP	A							
00E	425S	VER:	177	88	16	0	-5	-5	0	0	0.18
		HOR:	-155	-127	-72	-38	-16	-5	0	0	
00E	400S	VER:	200	90	15	-10	-10	-15	-5	-5	0.20
		HOR:	-180	-150	-80	-40	-15	-5	-5	-5	

CHANNEL			1	2	3	4	5	6	7	8	GAIN
00E	375S	VER:	171	76	9	-4	-4	-4	-4	-9	0.21
		HOR:	-176	-142	-76	-38	-9	0	4	4	
00E	350S	VER:	175	75	8	0	-4	0	4	0	0.24
		HOR:	-175	-137	-79	-33	-8	4	4	0	
00E	325S	VER:	169	69	7	-7	-7	-3	-3	-3	0.26
		HOR:	-176	-138	-76	-34	-15	-7	0	-3	
00E	300S	VER:	151	58	3	-6	-6	-6	-3	-10	0.29
		HOR:	-186	-131	-75	-37	-17	-3	0	0	
00E	275S	VER:	138	47	-2	-8	-8	-8	-5	-11	0.34
		HOR:	-191	-135	-57	-35	-14	-5	-2	-2	
00E	250S	VER:	118	31	-2	-5	-2	0	2	2	0.38
		HOR:	-202	-134	-53	-26	-10	-2	2	0	
00E	225S	VER:	97	20	-8	-8	-6	-6	-4	-4	0.45
		HOR:	-213	-124	-53	-22	-11	-4	-2	-2	
00E	200S	VER:	73	3	-14	-12	-8	-7	-3	-3	0.56
		HOR:	-205	-116	-42	-14	-3	1	0	0	
00E	175S	VER:	60	-7	-14	-10	-5	-2	-1	-1	0.69
		HOR:	-202	-117	-40	-15	-4	0	2	0	
00E	150S	VER:	47	-15	-14	-8	-4	-2	0	-1	0.84
		HOR:	-214	-113	-38	-13	-3	0	2	2	
00E	125S	VER:	20	-23	-14	-7	-5	-3	-2	-1	0.98
		HOR:	-204	-96	-31	-11	-4	-2	-2	-1	
00E	100S	VER:	-6	-32	-18	-7	-5	-3	-3	-1	1.00
		HOR:	-200	-84	-26	-9	-3	-1	-1	-2	
00E	75S	VER:	-9	-33	-14	-6	-3	-1	-1	-1	1.00
		HOR:	-190	-75	-22	-7	-2	0	0	-1	
00E	50S	VER:	-24	-33	-12	-6	-3	-2	-1	-1	1.00
		HOR:	-150	-57	-15	-5	-1	0	0	0	
00E	25S	VER:	-37	-30	-11	-5	-2	-1	0	-1	1.00
		HOR:	-120	-42	-13	-3	-1	0	0	0	
00E	0N	VER:	-35	-28	-12	-4	-2	-1	0	0	1.00
		HOR:	-130	-33	-9	-3	-1	0	0	0	

LINE	STAT		LOOP A								
200W	50N	VER:	-26	-17	-7	-3	-1	-1	0	0	1.00
		HOR:	-105	-18	-6	-2	0	0	1	1	
200W	25N	VER:	-29	-21	-8	-4	-2	-1	0	0	1.00
		HOR:	-120	-25	-7	-2	-1	0	1	1	
200W	0N	VER:	-30	-22	-9	-4	-2	-1	1	0	1.00
		HOR:	-140	-34	-11	-3	-1	0	1	0	
200W	25S	VER:	-22	-26	-11	-5	-1	0	1	0	1.00
		HOR:	-200	-53	-12	-4	-1	-1	0	0	
200W	50S	VER:	-23	-24	-11	-5	-2	-1	1	1	1.00
		HOR:	-96	-38	-13	-5	-2	0	1	0	
200W	75S	VER:	-8	-22	-12	-7	-4	-2	-1	-1	1.00
		HOR:	-140	-56	-17	-7	-2	0	1	0	
200W	100S	VER:	-2	-18	-12	-7	-4	-3	0	-1	1.00
		HOR:	-140	-60	-20	-7	-3	-1	1	0	

CHANNEL			1	2	3	4	5	6	7	8	GAIN
200W	125S	VER:	18	-13	-11	-6	-4	-2	-1	-1	1.00
		HOR:	-150	-72	-24	-8	-3	0	1	1	
200W	150S	VER:	48	-8	-11	-7	-5	-2	0	-1	0.85
		HOR:	-176	-89	-31	-10	-2	0	0	-1	
200W	175S	VER:	52	-4	-9	-6	-4	-2	1	0	0.72
		HOR:	-180	-98	-36	-12	-2	1	1	0	
200W	200S	VER:	68	1	-7	-7	-6	-3	0	0	0.64
		HOR:	-187	-103	-40	-14	-4	0	0	0	
200W	225S	VER:	80	9	-7	-7	-5	-3	1	0	0.55
		HOR:	-200	-109	-43	-18	-7	0	0	-1	
200W	250S	VER:	102	16	-6	-6	-6	-2	0	0	0.48
		HOR:	-208	-118	-47	-18	-6	2	2	2	
200W	275S	VER:	97	19	-4	-7	-4	-2	0	0	0.41
		HOR:	-185	-114	-53	-21	-7	0	2	0	
200W	300S	VER:	122	30	-2	-5	-5	0	2	0	0.36
		HOR:	-200	-125	-58	-25	-8	0	0	-5	
200W	325S	VER:	136	39	0	-6	-3	0	3	0	0.33
		HOR:	-193	-133	-63	-27	-9	-3	0	-3	
200W	350S	VER:	136	50	6	0	0	0	5	3	0.30
		HOR:	-186	-126	-53	-26	-10	-3	0	-3	
200W	375S	VER:	152	60	8	4	0	0	4	4	0.25
		HOR:	-180	-136	-64	-32	-12	-4	4	0	
200W	400S	VER:	143	56	4	-4	-4	-8	-4	-4	0.23
		HOR:	-147	-113	-60	-39	-26	-13	-8	-8	

LINE	STAT		LOOP	A							
250W	400S	VER:	170	75	10	-5	-5	-5	0	0	0.20
		HOR:	-175	-145	-70	-35	-10	0	5	0	
250W	375S	VER:	156	65	8	0	-4	-4	0	-4	0.23
		HOR:	-152	-108	-60	-26	-8	0	4	0	
250W	350S	VER:	166	75	8	-4	-8	-4	0	0	0.24
		HOR:	-154	-108	-58	-20	-4	0	4	0	
250W	325S	VER:	151	59	3	-3	-7	-3	3	0	0.27
		HOR:	-151	-111	-52	-25	-7	0	0	0	
250W	300S	VER:	141	51	0	-6	-6	-3	0	0	0.29
		HOR:	-172	-120	-58	-27	-10	-3	0	0	
250W	275S	VER:	131	40	0	-6	-6	-6	0	-6	0.32
		HOR:	-178	-118	-56	-25	-9	0	0	-3	
250W	250S	VER:	100	22	-2	-8	-5	-2	0	0	0.35
		HOR:	-185	-117	-57	-25	-8	0	0	-2	
250W	225S	VER:	100	17	-7	-7	-5	-2	2	2	0.40
		HOR:	-197	-122	-52	-22	-5	0	0	0	
250W	200S	VER:	85	10	-8	-8	-6	-4	2	2	0.49
		HOR:	-197	-112	-51	-18	-6	-2	-2	-4	
250W	175S	VER:	81	3	-9	-9	-5	-3	0	0	0.55
		HOR:	-218	-114	-47	-18	-7	0	0	0	
250W	150S	VER:	62	-3	-9	-7	-4	-1	1	1	0.64
		HOR:	-203	-104	-42	-14	-3	0	0	-1	

CHANNEL			1	2	3	4	5	6	7	8	GAIN
250W	125S	VER:	48	-9	-10	-7	-4	-2	0	0	0.83
		HOR:	-168	-86	-31	-12	-4	0	1	0	
250W	100S	VER:	35	-12	-11	-6	-4	-2	0	0	1.00
		HOR:	-180	-80	-26	-9	-3	0	0	-1	
250W	75S	VER:	4	-21	-11	-6	-3	-1	2	0	1.00
		HOR:	-170	-70	-22	-7	-2	1	1	0	
250W	50S	VER:	-11	-23	-12	-6	-3	-2	0	0	1.00
		HOR:	-150	-58	-18	-7	-3	-1	-1	-1	
250W	25S	VER:	-11	-30	-12	-5	-3	-2	0	0	1.00
		HOR:	-200	-57	-16	-5	-2	-1	0	-1	
250W	0N	VER:	-37	-25	-11	-5	-3	-2	1	0	1.00
		HOR:	-130	-35	-11	-4	-1	0	1	0	
250W	25N	VER:	-36	-29	-10	-5	-2	-1	0	0	1.00
		HOR:	-130	-30	-8	-2	0	0	0	-1	
250W	50N	VER:	-47	-23	-8	-4	-2	-1	0	0	1.00
		HOR:	-110	-20	-6	-2	-1	-1	0	0	

LINE	STAT		LOOP A								
400W	100N	VER:	-190	-83	-18	-5	-3	-2	0	0	1.00
		HOR:	-370	-71	-14	-4	-1	0	1	1	
400W	75N	VER:	-130	-92	-21	-7	-3	-1	0	0	1.00
		HOR:	-490	-105	-20	-5	-1	0	0	-1	
400W	50N	VER:	-120	-58	-17	-6	-3	-1	1	-1	1.00
		HOR:	-270	-62	-18	-5	-1	-1	0	1	
400W	25N	VER:	-65	-65	-20	-7	-3	-2	1	0	1.00
		HOR:	-410	-100	-23	-8	-1	0	0	-1	
400W	0N	VER:	-42	-52	-18	-7	-3	-2	1	-1	0.95
		HOR:	-378	-95	-23	-8	-3	-3	-1	-1	
400W	25S	VER:	-14	-40	-17	-7	-5	-2	-1	-1	0.88
		HOR:	-284	-82	-22	-7	-2	-1	1	1	
400W	50S	VER:	6	-33	-17	-10	-5	-3	-1	-3	0.80
		HOR:	-250	-92	-27	-8	-2	0	1	1	
400W	75S	VER:	27	-22	-14	-6	-4	-2	0	0	0.74
		HOR:	-189	-81	-25	-9	-2	-1	0	1	
400W	100S	VER:	39	-17	-13	-7	-4	-1	1	1	0.68
		HOR:	-220	-94	-32	-11	-4	-1	1	0	
400W	125S	VER:	48	-12	-12	-9	-8	-6	-3	-3	0.62
		HOR:	-209	-93	-32	-11	-3	0	1	0	
400W	150S	VER:	54	-7	-10	-7	-3	-1	1	0	0.55
		HOR:	-200	-94	-34	-14	-5	-1	0	0	
400W	175S	VER:	76	0	-12	-8	-4	-4	0	-4	0.50
		HOR:	-200	-100	-34	-12	0	0	2	2	
400W	200S	VER:	76	4	-8	-8	-4	-4	0	-4	0.46
		HOR:	-180	-93	-32	-10	-2	4	4	2	
400W	225S	VER:	80	4	-7	-7	-7	-4	-2	0	0.42
		HOR:	-173	-95	-38	-16	-4	-2	-2	-4	
400W	250S	VER:	83	10	-5	-5	-5	-2	0	0	0.37
		HOR:	-172	-97	-43	-21	-10	-10	-5	-5	

CHANNEL			1	2	3	4	5	6	7	8	GAIN
400W	275S	VER:	102	19	-5	-8	-5	-5	0	-2	0.36
		HOR:	-172	-100	-38	-16	-5	-2	0	0	
400W	300S	VER:	122	32	-3	-6	-6	-6	-6	-9	0.31
		HOR:	-180	-109	-51	-32	-16	-9	-3	3	
400W	325S	VER:	151	51	6	0	-3	-6	0	0	0.29
		HOR:	-155	-106	-51	-17	-3	0	0	-3	
400W	350S	VER:	138	46	7	-3	-3	-7	-3	-3	0.26
		HOR:	-153	-107	-53	-26	-11	-3	3	3	

LINE	STAT		LOOP	A							
500W	400S	VER:	152	52	11	0	0	0	0	0	0.17
		HOR:	-194	-141	-70	-41	-23	-11	0	-5	
500W	375S	VER:	126	31	0	-10	-15	-15	-10	-15	0.19
		HOR:	-178	-126	-58	-31	-15	-10	-5	-5	
500W	350S	VER:	140	40	0	-5	-5	-5	0	-10	0.20
		HOR:	-190	-125	-65	-25	-10	0	5	5	
500W	325S	VER:	105	25	0	0	0	5	15	10	0.20
		HOR:	-170	-105	-55	-30	-15	-15	-10	-5	
500W	300S	VER:	109	18	-4	-9	-9	-9	0	-4	0.22
		HOR:	-204	-131	-59	-27	-9	0	0	0	
500W	275S	VER:	100	16	-8	-8	-8	-8	0	0	0.24
		HOR:	-225	-125	-58	-29	-8	-4	-4	-4	
500W	250S	VER:	88	11	-11	-7	-7	-3	3	3	0.26
		HOR:	-230	-123	-57	-34	-11	-3	-3	-7	
500W	225S	VER:	75	7	-10	-10	-3	-3	7	3	0.28
		HOR:	-228	-114	-50	-25	-10	-3	0	-3	
500W	200S	VER:	61	0	-9	-9	-6	-3	3	3	0.31
		HOR:	-216	-116	-45	-16	0	3	3	0	
500W	175S	VER:	52	-14	-17	-14	-11	-8	0	-2	0.34
		HOR:	-276	-144	-52	-17	-2	0	0	-2	
500W	150S	VER:	31	-18	-15	-13	-5	-2	2	2	0.38
		HOR:	-263	-105	-39	-10	0	2	0	0	
500W	125S	VER:	12	-25	-23	-12	-7	-2	2	0	0.39
		HOR:	-282	-115	-41	-17	-5	0	0	-2	
500W	100S	VER:	7	-32	-22	-12	-7	-2	0	0	0.40
		HOR:	-262	-110	-37	-15	-2	0	2	0	
500W	75S	VER:	-13	-40	-22	-13	-6	-2	2	2	0.44
		HOR:	-295	-134	-50	-18	-4	0	2	2	
500W	50S	VER:	-27	-45	-25	-12	-6	-2	4	2	0.48
		HOR:	-312	-112	-37	-12	-2	0	0	-2	
500W	25S	VER:	-30	-42	-19	-10	-7	-7	0	3	0.56
		HOR:	-375	-130	-41	-16	-5	0	1	1	
500W	0N	VER:	-71	-69	-33	-18	-11	-10	-6	-6	0.59
		HOR:	-338	-115	-33	-10	-1	0	1	1	
500W	25N	VER:	-110	-93	-34	-12	-6	-3	0	-1	0.64
		HOR:	-468	-139	-37	-14	-3	0	1	0	

CHANNEL			1	2	3	4	5	6	7	8	GAIN
LINE	STAT		LOOP	B							
250E	100N	VER:	92	-7	-26	-23	-15	-7	3	0	0.26
		HOR:	-253	-192	-92	-42	-15	0	3	3	
250E	75N	VER:	82	-10	-28	-25	-14	-10	0	0	0.28
		HOR:	-257	-182	-85	-39	-14	-3	3	0	
250E	50N	VER:	58	-22	-32	-22	-12	-6	3	3	0.31
		HOR:	-254	-174	-87	-38	-16	-6	0	3	
250E	25N	VER:	37	-34	-37	-22	-14	-5	0	0	0.35
		HOR:	-257	-171	-77	-34	-11	0	5	0	
250E	0N	VER:	30	-35	-35	-20	-10	-5	5	5	0.40
		HOR:	-275	-175	-75	-32	-7	0	5	5	
250E	25S	VER:	23	-58	-41	-21	-13	-4	2	2	0.46
		HOR:	-260	-150	-65	-28	-8	0	2	0	
250E	50S	VER:	17	-60	-39	-19	-10	-3	1	0	0.56
		HOR:	-267	-164	-66	-25	-8	-1	1	1	
250E	75S	VER:	-23	-78	-46	-20	-9	-4	0	0	0.64
		HOR:	-265	-150	-56	-20	-6	1	3	0	
250E	100S	VER:	-38	-98	-53	-18	-9	-4	0	-2	0.75
		HOR:	-266	-140	-50	-18	-6	-1	1	0	
250E	125S	VER:	-38	-104	-50	-19	-7	-3	1	1	0.84
		HOR:	-285	-130	-41	-16	-3	0	1	1	
250E	150S	VER:	-105	-103	-49	-21	-9	-5	-1	-1	0.95
		HOR:	-221	-90	-31	-12	-4	0	2	1	
250E	175S	VER:	-130	-95	-42	-16	-6	-3	1	1	1.00
		HOR:	-150	-65	-27	-12	-5	-2	1	-1	
250E	200S	VER:	-130	-110	-45	-16	-7	-3	1	0	1.00
		HOR:	-160	-62	-19	-8	-3	-1	0	-1	
LINE	STAT		LOOP	B							
00W	200S	VER:	-29	-14	-6	-3	-1	0	1	1	1.00
		HOR:	-25	-10	-4	-1	0	0	2	0	
00W	175S	VER:	-34	-23	-11	-6	-3	-2	1	1	1.00
		HOR:	-62	-16	-7	-3	-1	0	1	0	
00W	150S	VER:	-40	-24	-12	-6	-3	-1	1	0	1.00
		HOR:	-69	-22	-9	-3	-1	0	1	0	
00W	125S	VER:	-39	-28	-13	-7	-3	-1	1	1	1.00
		HOR:	-90	-34	-13	-5	-1	0	1	1	
00W	100S	VER:	-32	-29	-14	-8	-5	-3	0	-1	1.00
		HOR:	-99	-38	-14	-7	-3	-2	1	0	
00W	75S	VER:	-22	-26	-14	-7	-4	-3	0	0	1.00
		HOR:	-110	-48	-20	-7	-3	0	1	-1	
00W	50S	VER:	-13	-28	-16	-8	-5	-3	0	-1	1.00
		HOR:	-130	-58	-23	-10	-4	-1	2	2	
00W	25S	VER:	-11	-28	-17	-8	-5	-3	2	2	1.00
		HOR:	-140	-64	-26	-10	-3	0	1	0	
00W	0N	VER:	20	-28	-19	-10	-5	-2	1	1	0.87
		HOR:	-160	-87	-36	-14	-5	0	2	1	
00W	25N	VER:	47	-20	-19	-10	-8	-6	-1	-1	0.73
		HOR:	-191	-100	-41	-16	-4	0	1	1	

CHANNEL			1	2	3	4	5	6	7	8	GAIN
00W	50N	VER:	32	-20	-22	-14	-11	-6	-3	-4	0.62
		HOR:	-177	-100	-48	-19	-8	-1	3	1	
00W	75N	VER:	34	-25	-26	-15	-7	-1	5	3	0.52
		HOR:	-178	-113	-53	-21	-7	0	3	1	
00W	100N	VER:	26	-28	-31	-15	-11	-6	0	-2	0.45
		HOR:	-182	-120	-53	-24	-8	0	2	2	

LINE	STAT		LOOP	B							
200W	200S	VER:	-32	-14	-8	-3	-1	-1	3	1	1.00
		HOR:	-19	-9	-5	-2	-1	0	2	2	
200W	175S	VER:	-44	-21	-10	-4	-2	-1	3	1	1.00
		HOR:	-35	-12	-6	-2	-1	0	2	1	
200W	150S	VER:	-54	-26	-10	-5	-2	-1	2	1	1.00
		HOR:	-65	-19	-8	-3	-1	0	2	1	
200W	125S	VER:	-64	-35	-14	-7	-3	-2	2	0	1.00
		HOR:	-91	-27	-12	-5	-2	-1	1	1	
200W	100S	VER:	-57	-44	-19	-8	-4	-2	1	1	1.00
		HOR:	-140	-47	-14	-6	-2	0	2	1	
200W	75S	VER:	-52	-36	-17	-8	-3	-1	2	2	1.00
		HOR:	-120	-46	-15	-7	-2	0	2	1	
200W	50S	VER:	-35	-41	-21	-10	-5	-2	2	2	1.00
		HOR:	-140	-64	-23	-9	-2	1	4	2	
200W	25S	VER:	-28	-34	-20	-10	-5	-2	2	0	1.00
		HOR:	-130	-68	-26	-12	-3	-1	3	0	
200W	0N	VER:	-5	-36	-23	-11	-7	-2	1	1	0.85
		HOR:	-164	-88	-35	-14	-3	1	3	1	
200W	25N	VER:	24	-37	-27	-12	-7	-2	2	1	0.70
		HOR:	-185	-107	-42	-18	-7	-1	1	0	
200W	50N	VER:	53	-35	-25	-13	-6	-3	1	1	0.60
		HOR:	-216	-133	-56	-21	-6	-1	1	3	
200W	75N	VER:	34	-28	-25	-13	-7	-1	7	3	0.52
		HOR:	-211	-125	-57	-25	-7	-1	3	3	
200W	100N	VER:	51	-26	-28	-15	-11	-2	4	0	0.45
		HOR:	-222	-142	-64	-26	-11	-4	2	0	
200W	125N	VER:	48	-21	-27	-18	-16	-10	0	-5	0.37
		HOR:	-213	-143	-70	-32	-13	-2	2	2	
200W	150N	VER:	76	-8	-20	-14	-8	-2	5	2	0.34
		HOR:	-217	-158	-76	-35	-11	-2	2	2	
200W	175N	VER:	83	-3	-16	-13	-10	-6	6	3	0.30
		HOR:	-206	-153	-76	-33	-16	-3	6	3	
200W	200N	VER:	119	11	-15	-19	-15	-7	0	0	0.26
		HOR:	-215	-169	-88	-42	-23	-3	3	0	

LINE	STAT		LOOP	B							
250W	200N	VER:	116	8	-16	-12	-8	-4	8	8	0.24
		HOR:	-212	-166	-87	-37	-16	0	8	4	
250W	175N	VER:	85	0	-14	-18	-11	-7	0	0	0.27
		HOR:	-229	-177	-88	-44	-14	0	7	0	

CHANNEL			1	2	3	4	5	6	7	8	GAIN
250W	150N	VER:	70	-16	-26	-20	-10	-3	5	0	0.30
		HOR:	-240	-173	-86	-40	-13	-3	0	-3	
250W	125N	VER:	73	-17	-29	-17	-11	-5	5	0	0.34
		HOR:	-247	-167	-85	-35	-11	0	5	2	
250W	100N	VER:	43	-30	-28	-15	-7	-5	5	5	0.39
		HOR:	-243	-153	-76	-30	-15	-7	2	5	
250W	75N	VER:	19	-36	-30	-15	-8	-2	6	4	0.46
		HOR:	-239	-141	-65	-26	-6	-2	4	0	
250W	50N	VER:	36	-40	-29	-14	-7	-1	5	1	0.55
		HOR:	-218	-130	-54	-23	-9	0	3	3	
250W	25N	VER:	21	-46	-34	-17	-7	-3	1	0	0.64
		HOR:	-218	-120	-50	-20	-7	-3	1	0	
250W	0N	VER:	-16	-45	-28	-13	-6	-2	1	0	0.74
		HOR:	-189	-101	-43	-17	-6	-2	1	1	
250W	25S	VER:	-42	-55	-28	-13	-5	-2	1	0	0.90
		HOR:	-222	-94	-35	-13	-5	0	3	2	
250W	50S	VER:	-74	-61	-30	-12	-5	-3	1	0	1.00
		HOR:	-170	-75	-28	-11	-6	-2	-1	-1	
250W	75S	VER:	-77	-65	-29	-12	-6	-4	0	0	1.00
		HOR:	-200	-70	-22	-10	-3	0	2	2	
250W	100S	VER:	-92	-56	-23	-10	-5	-2	1	1	1.00
		HOR:	-130	-46	-14	-7	-2	0	2	0	
250W	125S	VER:	-85	-45	-18	-9	-5	-3	0	0	1.00
		HOR:	-105	-34	-12	-4	0	2	3	1	

LINE	STAT		LOOP	B							
400W	200N	VER:	115	10	-15	-15	-15	-15	0	5	0.20
		HOR:	-280	-215	-120	-50	-15	-5	5	0	
400W	175N	VER:	81	-13	-27	-22	-13	-4	4	-4	0.22
		HOR:	-272	-200	-104	-50	-18	0	9	4	
400W	150N	VER:	68	-20	-32	-24	-12	-8	4	4	0.25
		HOR:	-292	-212	-104	-44	-12	0	8	0	
400W	125N	VER:	50	-35	-35	-21	-14	-3	3	3	0.28
		HOR:	-296	-207	-96	-42	-17	-7	3	-3	
400W	100N	VER:	33	-36	-43	-26	-16	-10	0	0	0.30
		HOR:	-280	-180	-86	-36	-16	-6	0	-6	
400W	75N	VER:	11	-51	-40	-22	-14	-8	0	0	0.35
		HOR:	-314	-191	-85	-28	-8	5	5	2	
400W	50N	VER:	-12	-62	-40	-20	-12	-5	0	0	0.40
		HOR:	-300	-175	-75	-32	-12	0	7	5	
400W	25N	VER:	-29	-77	-54	-22	-11	-4	0	-2	0.44
		HOR:	-340	-168	-70	-27	-11	-2	2	0	
400W	0N	VER:	-54	-94	-52	-24	-14	-8	-2	-2	0.50
		HOR:	-340	-170	-64	-28	-10	-2	2	2	
400W	25S	VER:	-86	-113	-56	-20	-10	-5	0	0	0.58
		HOR:	-344	-148	-55	-22	-8	-1	3	1	
400W	50S	VER:	-116	-114	-53	-20	-8	-4	0	-1	0.67
		HOR:	-343	-125	-49	-17	-7	-2	1	1	

	CHANNEL		1	2	3	4	5	6	7	8	GAIN
400W	75S	VER:	-75	-121	-55	-21	-8	-5	0	0	0.80
		HOR:	-362	-116	-37	-16	-5	-1	1	0	
400W	100S	VER:	-107	-107	-46	-16	-6	-3	0	0	0.90
		HOR:	-288	-91	-31	-12	-4	-1	1	0	

LINE	STAT		LOOP B								
500W	100S	VER:	-115	-168	-82	-31	-15	-8	0	0	0.45
		HOR:	-333	-153	-51	-17	-4	2	4	0	
500W	75S	VER:	-135	-162	-87	-35	-17	-10	0	0	0.40
		HOR:	-350	-160	-52	-27	-10	-2	0	0	
500W	50S	VER:	-102	-152	-78	-28	-13	-7	2	2	0.38
		HOR:	-342	-184	-68	-28	-10	-2	2	2	
500W	25S	VER:	-114	-140	-74	-34	-17	-8	0	-2	0.35
		HOR:	-342	-171	-77	-31	-11	-2	2	0	
500W	0N	VER:	-57	-139	-78	-39	-21	-9	0	-3	0.33
		HOR:	-363	-218	-87	-36	-12	-3	0	0	
500W	25N	VER:	-51	-117	-75	-37	-20	-6	3	3	0.29
		HOR:	-379	-220	-96	-37	-17	-3	3	0	
500W	50N	VER:	-33	-96	-62	-33	-22	-11	0	0	0.27
		HOR:	-388	-229	-111	-48	-25	-11	0	-3	
500W	75N	VER:	8	-72	-56	-28	-20	-8	4	4	0.25
		HOR:	-376	-244	-128	-52	-20	-4	4	0	
500W	100N	VER:	18	-54	-50	-27	-18	-9	0	0	0.22
		HOR:	-372	-254	-122	-59	-22	-4	4	0	
500W	125N	VER:	60	-30	-40	-30	-20	-10	0	0	0.20
		HOR:	-360	-260	-130	-60	-25	-10	10	10	
500W	150N	VER:	44	-16	-33	-27	-16	-11	5	0	0.18
		HOR:	-311	-233	-116	-55	-22	0	22	11	
500W	175N	VER:	56	-6	-25	-25	-18	-6	6	6	0.16
		HOR:	-312	-237	-131	-62	-31	-18	6	0	
500W	200N	VER:	73	6	-13	-13	-13	-13	6	0	0.15
		HOR:	-306	-240	-133	-66	-33	-13	13	0	

LINE	STAT		LOOP C								
600W	200N	VER:	-41	-14	-7	-3	-1	-1	0	0	1.00
		HOR:	-51	-14	-5	-1	0	0	1	0	
600W	175N	VER:	-35	-14	-6	-3	-1	-1	1	0	1.00
		HOR:	-73	-21	-7	-2	-1	0	1	0	
600W	150N	VER:	-33	-18	-7	-4	-1	-1	1	-1	1.00
		HOR:	-91	-29	-8	-2	-1	0	1	0	
600W	125N	VER:	-24	-15	-7	-3	-1	-1	1	1	1.00
		HOR:	-95	-30	-10	-3	-1	0	1	-1	
600W	100N	VER:	-18	-13	-9	-5	-2	-2	-1	-2	1.00
		HOR:	-99	-32	-11	-3	-1	0	1	0	
600W	75N	VER:	-11	-14	-10	-6	-4	-3	-2	-3	1.00
		HOR:	-105	-39	-13	-5	-2	-1	0	-1	
600W	50N	VER:	-4	-13	-9	-5	-3	-3	0	-1	1.00
		HOR:	-110	-42	-14	-5	-2	-1	0	-1	

CHANNEL			1	2	3	4	5	6	7	8	GAIN
600W	25N	VER:	2	-11	-9	-5	-3	-3	0	-2	1.00
		HOR:	-110	-47	-15	-7	-4	-2	-1	-1	
600W	0N	VER:	31	-7	-8	-4	-2	-1	1	-1	0.85
		HOR:	-129	-58	-20	-7	-3	-1	1	0	
600W	25S	VER:	45	0	-5	-4	-2	-2	1	0	0.70
		HOR:	-137	-62	-21	-7	-2	-1	1	0	
600W	50S	VER:	49	1	-6	-6	-3	-3	0	0	0.59
		HOR:	-132	-66	-23	-10	-5	-1	1	1	
600W	75S	VER:	60	5	-5	-3	-1	0	5	3	0.53
		HOR:	-130	-67	-26	-13	-5	-1	1	0	
600W	100S	VER:	71	11	-4	-6	-4	-4	0	-4	0.45
		HOR:	-131	-75	-28	-13	-6	-2	2	2	
600W	125S	VER:	71	13	-5	-5	-2	-2	5	0	0.38
		HOR:	-113	-73	-31	-18	-13	-10	-2	-5	
600W	150S	VER:	100	23	-2	-5	-5	-5	-2	-2	0.34
		HOR:	-129	-79	-35	-17	-8	-2	0	0	
600W	175S	VER:	96	26	0	-6	-3	-3	0	-3	0.30
		HOR:	-130	-86	-43	-16	-6	-3	0	-3	
600W	200S	VER:	100	34	3	0	0	0	3	3	0.26
		HOR:	-123	-80	-46	-23	-11	-11	-3	-3	

LINE	STAT		LOOP	C							
750W	200S	VER:	112	30	0	-6	-6	-6	-3	-6	0.33
		HOR:	-121	-81	-39	-21	-9	-3	3	0	
750W	175S	VER:	100	26	0	-2	-2	-5	-2	-2	0.38
		HOR:	-113	-73	-36	-13	-5	-5	-2	-2	
750W	150S	VER:	86	20	-4	-6	-6	-4	0	-2	0.44
		HOR:	-113	-68	-29	-15	-11	-6	-4	-2	
750W	125S	VER:	67	14	-4	-2	0	0	0	-2	0.49
		HOR:	-120	-69	-30	-12	-2	4	2	-4	
750W	100S	VER:	64	11	-5	-3	-3	-3	0	0	0.59
		HOR:	-115	-59	-25	-11	-3	-1	0	-1	
750W	75S	VER:	50	2	-5	-7	-4	-4	-2	-1	0.68
		HOR:	-107	-57	-20	-10	-4	-1	1	-1	
750W	50S	VER:	42	2	-3	-3	-2	-1	1	0	0.80
		HOR:	-116	-57	-20	-6	0	1	1	0	
750W	25S	VER:	42	0	-5	-4	-3	-2	0	0	0.95
		HOR:	-115	-50	-17	-6	-1	0	1	0	
750W	0N	VER:	16	-5	-6	-5	-3	-2	-1	-1	1.00
		HOR:	-86	-38	-12	-6	-2	-1	1	0	
750W	25N	VER:	23	-8	-7	-5	-3	-2	-2	-3	1.00
		HOR:	-110	-35	-12	-4	-2	-2	0	0	
750W	50N	VER:	-7	-8	-6	-4	-2	-2	-10	-1	1.00
		HOR:	-57	-22	-8	-3	-2	-1	-11	-1	
750W	75N	VER:	-12	-9	-6	-4	-2	-1	-9	-1	1.00
		HOR:	-45	-18	-6	-2	-1	-1	-11	-1	
750W	100N	VER:	-11	-10	-6	-3	-1	-1	-8	-2	1.00
		HOR:	-56	-16	-6	-2	-2	-2	-10	-1	

CHANNEL			1	2	3	4	5	6	7	8	GAIN
750W	125N	VER:	-13	-9	-5	-3	-1	-1	-4	-1	1.00
		HOR:	-47	-12	-4	-1	-1	-1	-1	-1	
750W	150N	VER:	-11	-9	-5	-3	-1	-1	-2	-1	1.00
		HOR:	-44	-12	-4	-1	0	0	0	0	
LINE	STAT		LOOP C								
1000W	150N	VER:	-32	-15	-6	-4	-2	-1	-1	-1	1.00
		HOR:	-100	-23	-7	-2	-1	0	0	-1	
1000W	125N	VER:	-36	-17	-7	-4	-2	-2	-1	-1	1.00
		HOR:	-110	-30	-8	-3	-1	0	0	0	
1000W	100N	VER:	-35	-19	-7	-4	-2	-2	0	0	1.00
		HOR:	-120	-36	-11	-4	-3	-2	-2	-2	
1000W	75N	VER:	-24	-15	-8	-6	-3	-3	-3	-2	1.00
		HOR:	-140	-45	-14	-5	-1	0	0	1	
1000W	50N	VER:	-11	-14	-7	-4	-2	-1	1	1	1.00
		HOR:	-140	-50	-17	-8	-5	-3	-1	0	
1000W	25N	VER:	15	-13	-8	-5	-2	-3	-1	-1	0.95
		HOR:	-157	-62	-23	-6	-1	-1	-1	-2	
1000W	0N	VER:	13	-9	-8	-6	-2	-2	-2	-2	0.81
		HOR:	-160	-66	-23	-8	-3	-1	-2	-2	
1000W	25S	VER:	29	-1	-6	-5	-5	-5	-11	-2	0.72
		HOR:	-166	-69	-23	-9	-2	-1	-2	-1	
1000W	50S	VER:	49	3	-6	-6	-4	-4	-9	-3	0.61
		HOR:	-155	-70	-24	-11	-4	-3	-3	-1	
1000W	75S	VER:	59	5	-3	-1	-1	0	0	1	0.54
		HOR:	-150	-74	-25	-12	-5	-3	-1	0	
1000W	100S	VER:	63	8	-4	-4	-4	-4	-6	-2	0.46
		HOR:	-139	-76	-30	-15	-6	-2	-4	-4	
1000W	125S	VER:	72	15	-2	-10	-7	-7	-5	-5	0.40
		HOR:	-125	-72	-30	-15	-7	-2	0	2	
1000W	150S	VER:	88	22	0	-2	-2	-2	-2	-2	0.35
		HOR:	-134	-80	-37	-17	-5	-2	-2	-2	
1000W	175S	VER:	103	28	3	-3	0	0	0	0	0.32
		HOR:	-146	-81	-40	-18	-6	-6	-6	0	
1000W	200S	VER:	96	31	6	-3	-6	-6	-10	-6	0.29
		HOR:	-120	-79	-44	-20	-10	-6	-6	-6	
LINE	STAT		LOOP D								
600W	50S	VER:	-130	-52	-16	-7	-4	-3	-1	-1	1.00
		HOR:	-79	-17	-7	-2	0	1	1	0	
600W	25S	VER:	-120	-48	-16	-7	-4	-2	-1	-1	1.00
		HOR:	-71	-21	-8	-3	-1	0	0	0	
600W	0N	VER:	-150	-65	-23	-8	-4	-2	-1	-1	1.00
		HOR:	-170	-39	-12	-5	-2	-1	0	0	
600W	25N	VER:	-130	-68	-23	-9	-4	-2	-1	-1	1.00
		HOR:	-190	-55	-16	-6	-2	-1	0	0	
600W	50N	VER:	-120	-71	-25	-10	-5	-3	-1	-1	1.00
		HOR:	-220	-70	-22	-8	-3	-1	1	1	

CHANNEL			1	2	3	4	5	6	7	8	GAIN
600W	75N	VER:	-29	-85	-29	-12	-5	-2	-2	-1	0.94
		HOR:	-351	-111	-31	-9	-3	-1	0	0	
600W	100N	VER:	-58	-73	-29	-9	-6	-3	-2	-1	0.82
		HOR:	-329	-112	-36	-10	-3	0	0	-1	
600W	125N	VER:	-49	-60	-27	-10	-5	-2	-1	0	0.69
		HOR:	-318	-123	-43	-15	-5	-2	-1	-1	
600W	150N	VER:	-31	-36	-20	-10	-6	-3	-1	0	0.58
		HOR:	-224	-106	-41	-15	-5	-1	0	0	
600W	175N	VER:	-8	-26	-20	-14	-10	-6	-6	-6	0.50
		HOR:	-280	-128	-46	-16	-6	0	2	4	
600W	200N	VER:	6	-20	-20	-13	-9	-4	-2	-2	0.43
		HOR:	-255	-132	-51	-20	-6	0	2	0	

LINE	STAT		LOOP	D							
750W	200N	VER:	-32	-47	-23	-13	-8	-5	1	1	0.59
		HOR:	-237	-113	-37	-13	-3	-1	1	0	
750W	175N	VER:	-55	-50	-22	-9	-6	-4	-1	-1	0.72
		HOR:	-236	-102	-33	-13	-4	-1	1	-1	
750W	150N	VER:	-71	-63	-25	-9	-6	-2	-1	0	0.83
		HOR:	-289	-100	-33	-10	-4	-1	-1	-2	
750W	125N	VER:	-69	-75	-26	-11	-6	-2	0	0	0.95
		HOR:	-336	-97	-29	-10	-3	-1	0	-1	
750W	100N	VER:	-110	-53	-20	-8	-4	-2	0	0	1.00
		HOR:	-160	-56	-19	-7	-3	-2	-1	0	
750W	75N	VER:	-110	-59	-21	-8	-4	-2	0	0	1.00
		HOR:	-190	-56	-18	-5	-1	1	0	1	
750W	50N	VER:	-93	-62	-20	-7	-3	-2	0	0	1.00
		HOR:	-240	-51	-13	-5	-2	-1	0	0	
750W	25N	VER:	-120	-43	-13	-5	-2	-2	0	-1	1.00
		HOR:	-120	-24	-9	-3	-1	0	1	1	
750W	0N	VER:	-110	-40	-12	-5	-3	-1	1	0	1.00
		HOR:	-130	-17	-6	-2	-1	0	1	0	
750W	25S	VER:	-80	-24	-9	-4	-2	-1	0	-1	1.00
		HOR:	-57	-10	-4	-2	-1	0	0	0	
750W	50S	VER:	-63	-20	-8	-4	-2	-1	-1	0	1.00
		HOR:	-39	-6	-2	-1	0	0	0	0	

LINE	STAT		LOOP	D							
1000W	100S	VER:	-83	-24	-9	-4	-2	-1	0	0	1.00
		HOR:	-12	-3	-2	-1	0	0	1	0	
1000W	75S	VER:	-105	-33	-12	-4	-3	-1	-1	0	1.00
		HOR:	-38	-6	-3	-1	-1	0	0	0	
1000W	50S	VER:	-130	-47	-14	-6	-3	-2	-1	-1	1.00
		HOR:	-93	-12	-5	-2	-2	-1	0	0	
1000W	25S	VER:	-140	-60	-19	-7	-3	-1	0	0	1.00
		HOR:	-160	-22	-8	-3	-1	0	0	0	
1000W	0N	VER:	-120	-67	-20	-8	-3	-2	0	0	1.00
		HOR:	-210	-32	-10	-3	-1	-1	0	0	

CHANNEL			1	2	3	4	5	6	7	8	GAIN
1000W	25N	VER:	-130	-61	-20	-7	-4	-1	0	0	1.00
		HOR:	-140	-32	-11	-3	0	0	1	0	
1000W	50N	VER:	-120	-79	-26	-10	-5	-2	0	0	1.00
		HOR:	-250	-57	-17	-6	-3	-1	-1	-1	
1000W	75N	VER:	-110	-79	-26	-12	-5	-3	0	0	1.00
		HOR:	-260	-66	-20	-8	-3	-1	0	0	
1000W	100N	VER:	-73	-84	-28	-10	-4	-2	1	1	0.94
		HOR:	-297	-85	-25	-9	-3	0	0	1	
1000W	125N	VER:	-91	-80	-30	-13	-6	-3	-1	0	0.80
		HOR:	-237	-85	-28	-11	-6	-3	-1	0	
1000W	150N	VER:	-84	-80	-31	-14	-8	-5	0	0	0.70
		HOR:	-271	-95	-34	-15	-8	-5	-1	0	
1000W	175N	VER:	-70	-83	-36	-18	-8	-3	0	0	0.60
		HOR:	-266	-116	-38	-11	-5	1	0	1	
1000W	200N	VER:	-67	-75	-32	-15	-9	-3	0	0	0.52
		HOR:	-269	-125	-42	-15	-5	-1	0	0	
1000W	225N	VER:	-15	-68	-34	-18	-11	-6	-2	-2	0.44
		HOR:	-318	-156	-50	-20	-6	-2	0	-2	
1000W	250N	VER:	-37	-48	-32	-21	-13	-8	-5	-2	0.37
		HOR:	-256	-129	-48	-21	-10	-5	-5	-5	
1000W	275N	VER:	-20	-44	-35	-23	-14	-8	0	2	0.34
		HOR:	-288	-144	-52	-17	-8	0	0	0	
1000W	300N	VER:	-3	-33	-30	-23	-16	-16	-10	0	0.30
		HOR:	-280	-146	-56	-23	-6	0	3	0	
1000W	325N	VER:	7	-29	-29	-25	-18	-14	0	3	0.27
		HOR:	-285	-155	-59	-25	-7	-3	0	0	
1000W	350N	VER:	12	-29	-29	-16	-8	0	4	4	0.24
		HOR:	-283	-162	-58	-33	-12	-4	-4	0	
1000W	375N	VER:	23	-28	-33	-23	-14	-9	0	0	0.21
		HOR:	-271	-152	-66	-28	-14	0	4	4	
1000W	400N	VER:	55	-5	-22	-22	-16	-16	-5	0	0.18
		HOR:	-277	-172	-72	-33	-5	0	0	0	

139°31' W

63°36' N

1000 N — 1250 W
800 N — 1000 W
600 N — 750 W
400 N — 600 W
200 N — 500 W
0 — BASE LINE — 400 W
200 S — 250 W
400 S — 200 W
600 S — 0
800 S — 250 E
1000 S — 500 E
800 E
1000 E
1250 E

'A'
'B'
'C'
'D'

3000
2900
2800
2700
2600
2500
2400
2300
2200
2200
2300

Interpreted Fault

Stream

Near Surface Conductor

Lucky Joe Creek

Stream

Lower Graphitic Unit - 25 Meters Depth

Upper Graphitic Unit - 25 Meters Depth

Metamorphosed Sediments Metamorphosed Volcanics

Contact of Strong Surface

Note
Portion of Grid Surveyed

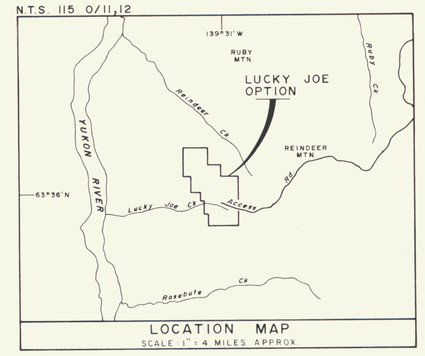
Note
Established Grid

LEGEND

LOOP LOCATION

INSTRUMENT : CRONE P.E.M.
Contour Interval : 100 Feet

N.T.S. 115 O/11,12



LOCATION MAP
SCALE 1" = 4 MILES APPROX

100 50 0 100 200 300 400
Meters

RIO CANEX EXPLORATION LIMITED

— LUCKY JOE OPTION —

DAWSON MINING DISTRICT — YUKON TERRITORY

VPEM LOOP LOCATION & INTERPRETATION MAP

STRUCTURE MAP of META.-SED./MET.-VOL. CONTACT
Contoured Elevation (in Feet) Above Mean Sea Level

Glen E. White geophysical consulting & services ltd.

INTERPRETED BY: G.E.W.	
DRAWN BY: T.M.	
CHECKED BY:	
DATE: JUNE, 1980	
FIG. No: 2	

To Accompany Geophysical Report on
LUCKY JOE OPTION
Date .....
By GLEN E. WHITE, B.Sc. ..... GEOPHYSICIST

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA