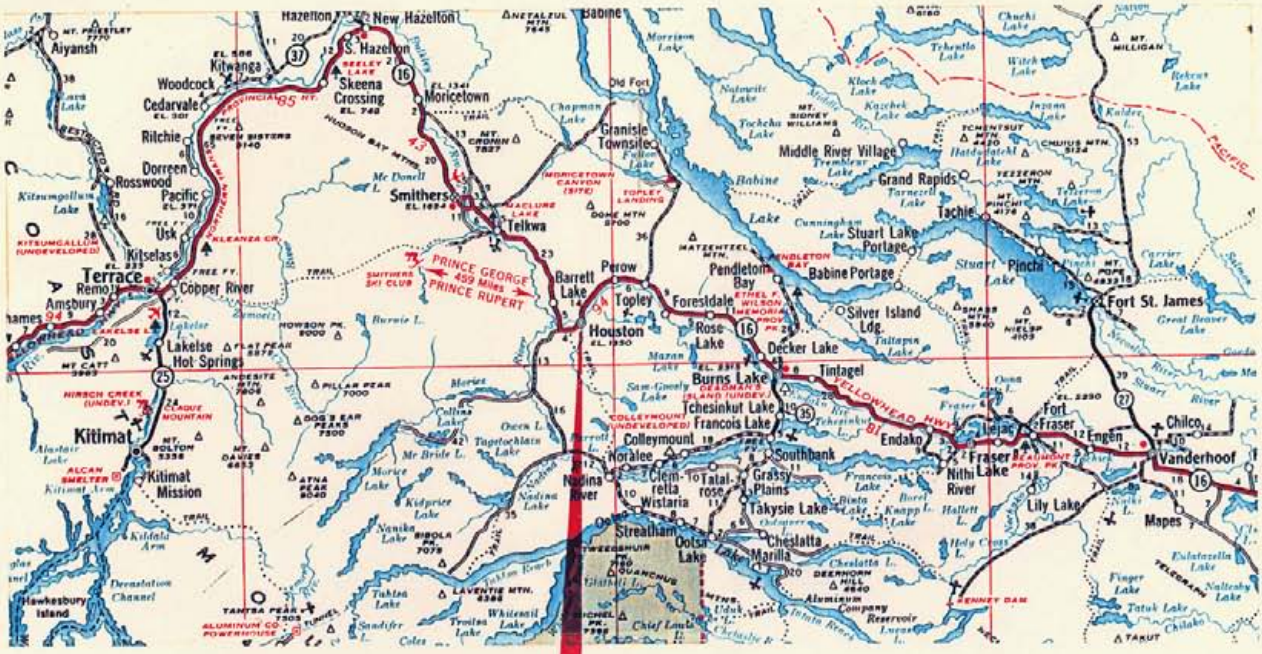
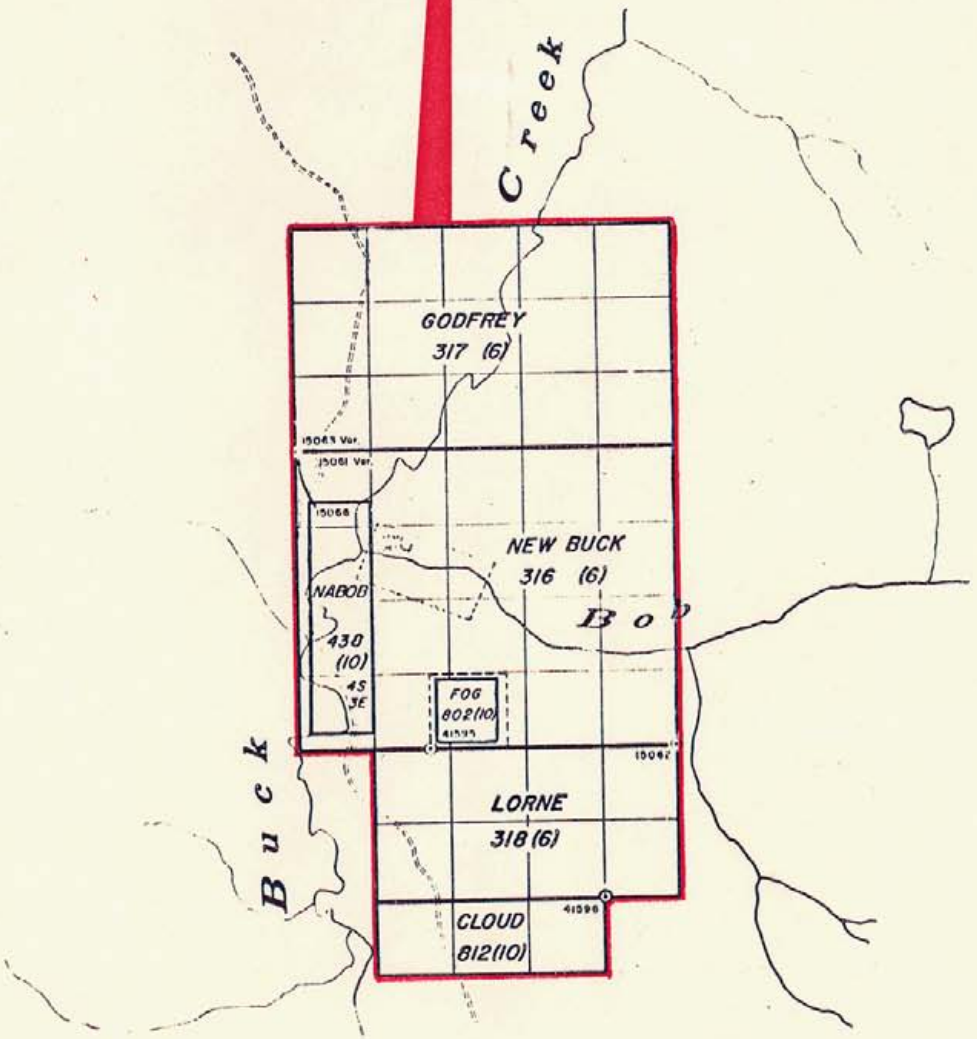
GEOPHYSICAL REPORT
For
DUPONT OF CANADA EXPLORATION LTD.
On A
PULSE ELECTROMAGNETOMETER SURVEY

Bob Creek property, Houston area, B. C.
Onimeca Mining Division
Lat. 54°18'N Long. 126°36'W N.T.S. 93 L/7

AUTHOR: Glen E. White, B.Sc., P. Eng.
Geophysicist
DATE OF WORK: January 16 - 30, 1978
DATE OF REPORT: February 9, 1978





LOCATION AND CLAIM MAP

DU PONT EXPLORATION LTD.

BOB CREEK PROPERTY

Glen E. Wilson
professional consulting
geologist ltd.

SCALE 1" = 40 MILES

FIG. 1

C O N T E N T S

Illustrations

INTRODUCTION

During the period January 16 - 30, 1978, a program of pulse electromagnetometer (PEM) surveying was conducted over a group of mineral claims known as the Bob Creek property, Houston area, B. C. on behalf of Dupont Exploration of Canada Ltd.

The purpose of the survey was to examine an area containing a large HEM electromagnetic anomaly detected by Lockwood Survey Corporation in 1969 and an induced polarization anomaly obtained in 1976, to try and detect any specific vertical or flat lying electromagnetic conductors.

PROPERTY

The Bob Creek property consists of mineral claims Godfrey, New Buck, Nabob, Fog, Lorne and Cloud; record numbers 317, 316, 438, 802, 318 and 812 respectively. The claims layout is illustrated in Figure 1.

LOCATION AND ACCESS

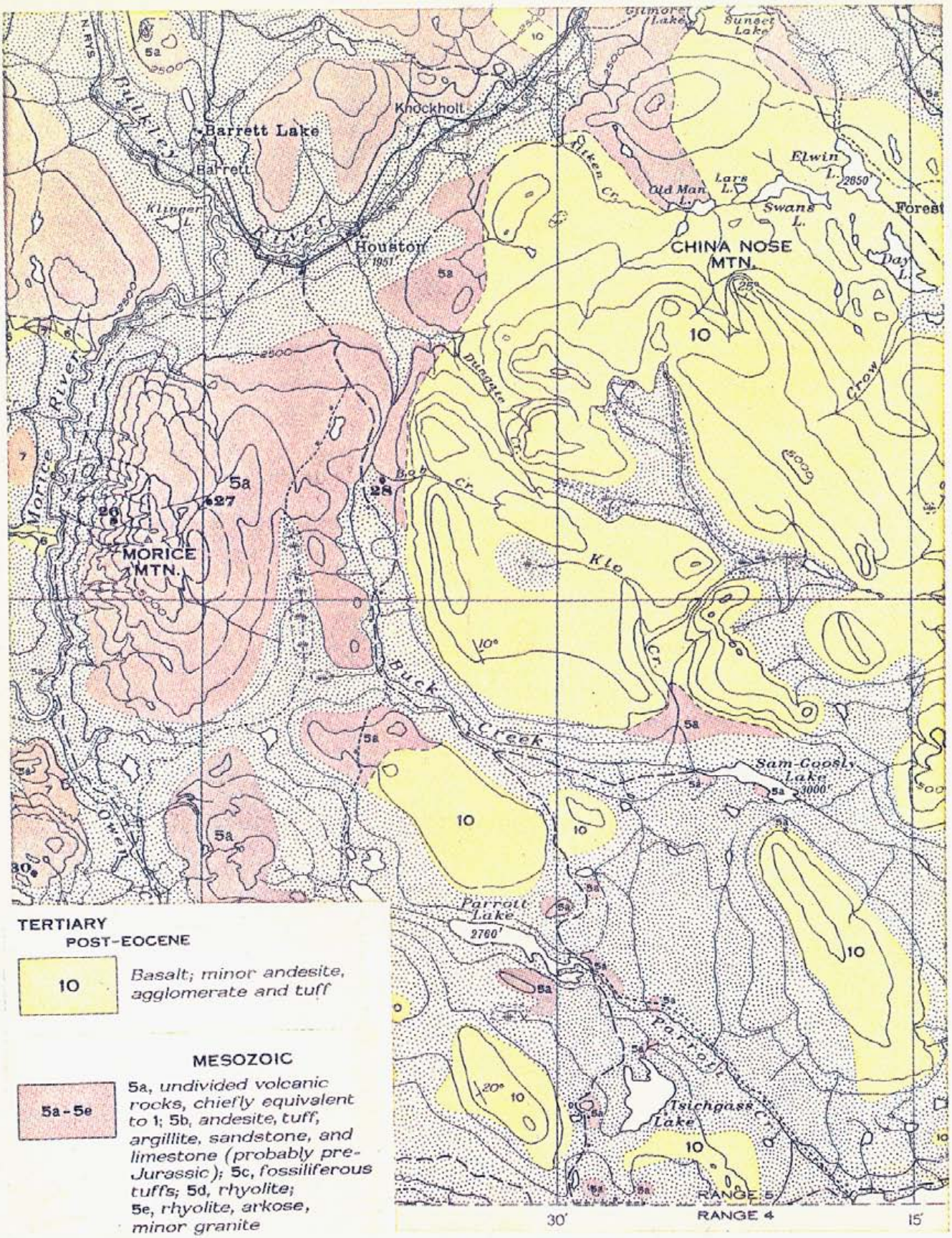
The survey area is located at the junction of Buck and Bob Creeks some 7 miles south west along Buck Flats Road which leaves Highway 16 one mile west of Houston, B. C. Latitude 54°18'N, Longitude 126°36'W, N.T.S. 93 L/7. Omineca Mining Division, B. C. Access is by regular motor vehicle.

GENERAL GEOLOGY

The general geology of the area is shown on geology map 671A as illustrated on Plate 1. The property is underlain by the Hazelton Group of volcanic rocks, andesite, rhyolite and dacite of Mesozoic age, with interbedded andesite, rhyolite tuffs, argillites and sandstones. This sequence is overlain to the west of the property by Tertiary basalts with minor agglomerates and tuff.

Geological mapping by Nevin Sadlier-Brown Goodbrand Ltd. shows the central area of the property to be underlain by andesites intruded by a small gabbro stock some 1300 feet in diameter. Rhyolites, dacites and related breccias occur in the northeast corner of the property.

Plate 2 illustrates the regional airborne magnetic intensity data which shows strong magnetic dipole effects associated with the Tertiary basalts. The gabbro stock does not appear to be reflected by the magnetic intensity data, though its emplacement may have been controlled by a zone of weakness possibly indicated by the pronounced magnetic low linear in this area.



GEOLOGY AND TOPOGRAPHY

MAP 671A

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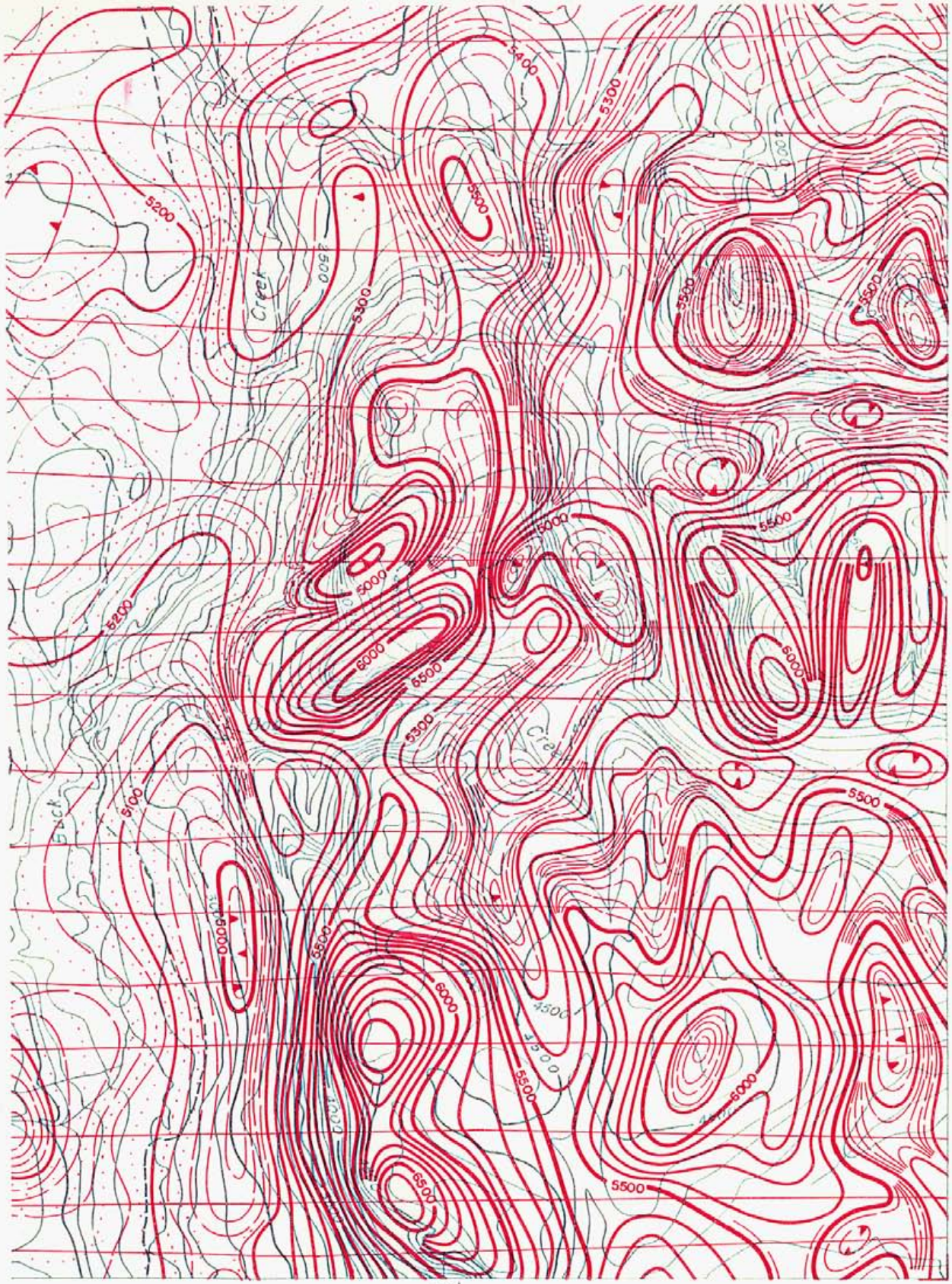
Plate 1



GEOPHYSICS PAPER 5308

HOUSTON

BRITISH COLUMBIA

SHEET 93 L/7

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Plate 2

SURVEY SPECIFICATIONS

Survey Grid

The survey grid was established previous to the PEM survey and consisted of east-west directed reconnaissance geochemical lines spaced from 1200 feet to 600 feet apart. For the purpose of the PEM survey, a number of intermittant lines were surveyed in. Some 8 miles of PEM surveying were completed.

Pulse Electromagnetometer Survey

The PEM system is used primarily in the horizontal loop configuration. The transmitter consists of a transmit loop 6 meters in diameter that is laid out horizontally on the ground. The loop is energized by a pulse of 15 to 20 amps at 24 volts. The current is turned off by a special ramp circuit. The on-off time is 10.8 ms. The receive coil is generally spaced 25 - 100 meters from the transmit loop. The signal on the receive coil is sampled, averaged and then stored during the reading interval. One sample is taken of the primary pulse and eight samples are taken of the secondary field during the off time. Time synchronization is by radio link or cable.

The eight channels of secondary field information are equivalent to a wide spectrum of frequency information from approximately 2 KH_z to 16 H_z which allows for determination of overburden effects and penetration of conductive overburden. Since the secondary field is measured directly during the primary field off time, the pulse method is free of geometrical restrictions between the transmit and recieve coil positions, such as topography interference and coil alignment.

A separation of 200 feet was used for the survey.

DISCUSSION OF RESULTS

Figure 2 shows the channel 1 electromagnetic response as a contour plan. The responses are negative typical of a flat lying conductor. A number of minor electromagnetic responses, possibly reflecting fault or shear zones, are also depicted.

Line R, the northernmost line, shows a pronounced low around 0 of -33 p.p.k. in Channel 1. Each of the profiles shows a general negative response of some 4 - 10 p.p.k. which indicates weakly conductive overburden, likely glacial till with a relatively high clay content. Thus, the response at 0 would appear to be from possibly a weak formational conductor under slightly conductive overburden.

Line LBC, a traverse along the Bob Creek trail, shows a weakly conductive broad formational response from 11E to 32E.

Line 30N: The area from 8E to 12E shows a definite increase in conductivity within the broader formational response to a value of -51 p.p.k. This negative trend is reflected weakly by Channel 2. The electromagnetic variations detected at 24E likely reflect a shear zone containing small fracture fillings of conductive materials.

Line 26N shows the strongest negative response, -75 p.p.k. A detail vertical loop profile, which is a plot of the horizontal and vertical vectors obtained by a traverse across an anomalous area, was obtained over line 26N, Figure 17. Since the anomaly is a poor conductor, it responded only in Channels 1 and 2. Channel one shows a definite current axis at 7 ∠ 25E at a depth of 170 feet. Channel two detected a slightly more conductive current axis at 7 ∠ 75E at a depth of 350 feet. A possible interpretation is that both channels are reflecting current axes at the boundaries of a small graphite and/or mineral bearing distillate basin.

Line 22 ∠ 5, Figure 7: Though it does not reach a strong negative value as Line 26N, it shows a definite negative responss through to channel 6 at 6E. A moderately conductive flat easterly dipping source also occurs at 17E. Line 18N shows the broad formational effect which

has decreased somewhat in conductivity; however, a multi-channel inflection occurs at 16E which likely correlates with the moderate conductivity response on line 22 ≠ 5N at 17E. The strong electromagnetic response at 29 - 30E is spurious in that it has a long decay factor. The field notes indicate a trench near 29N. The response appears to occur over two readings and thus may not be a noise spike. The response if valid would indicate a small excellent flat easterly dipping conductor of possibly cultural origin (drill steel) or a thin graphite or sulphide lense.

Lines 12N to 8.5N show a decrease in conductivity of the formational conductor from 4E to 8E.

Lines 8.5N and 2N show a number of lower channel oscillations which appear to relate to fault zones. Line 2N at 5E shows the southwest extension of the large flat conductor.

Line 10S shows a definite flat lying conductor at 25E.

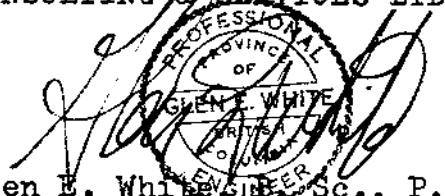
Line 15S and 20S are contrasting lines in that line 15S shows a quiet background response while line 20S has considerable variations. Line 20S follows a small stream and likely reflects variable conductive overburden and induced powerline noise.

CONCLUSION AND RECOMMENDATIONS

The pulse electromagnetometer survey detected a large flat lying conductor of poor conductivity in the northwest corner of the survey area. An old drill hole reportedly drilled near 8.5N at 5E off of the main conductor area intersected graphite. Thus, the strong negative electromagnetic responses may possibly outline a localized graphite-bearing basin. A vertical profile detected localized conductor axis at depths of 170 and 350 feet at 7 ∠ 25E and 7 ∠ 75E respectively on line 26N. Interesting electromagnetic variations were also obtained on lines 22 ∠ 50N at 17E and 10S at 25E.

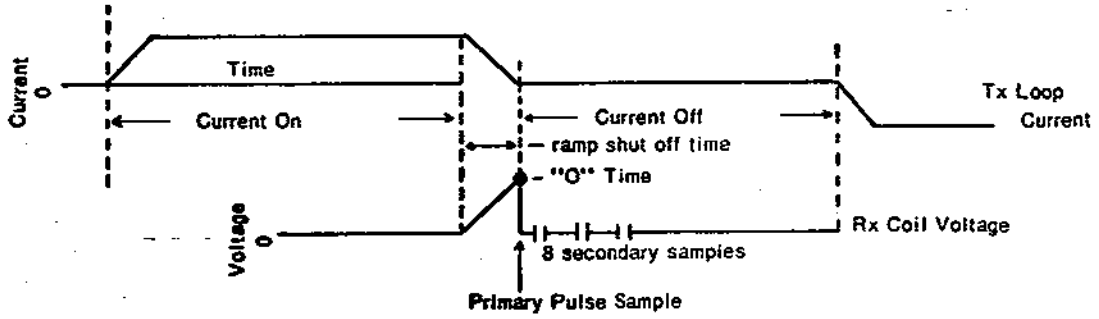
The electromagnetic conductors detected by this survey can be classified as relatively poor conductors. However, conductivity is a function of mineral type and crystal interconnection. Thus, since the conductors are in favourable geological environment, it is recommended that the conductors on line 26N, 22 ∠ 50N and 10S be tested by diamond drilling.

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



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

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 36.5cm (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

STATEMENT OF QUALIFICATIONS

Name: WHITE, Glen E.

Profession: Geophysicist

Education: B.Sc. Geophysics - Geology
University of British Columbia

Professional Associations: Associate member of Society of Exploration Geophysicists.

Vice-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 Explorations 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.

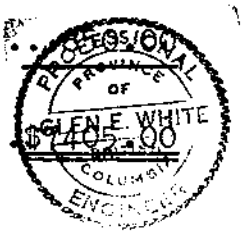
Two years Chief Geophysicist Tri-Con Exploration Surveys Ltd.

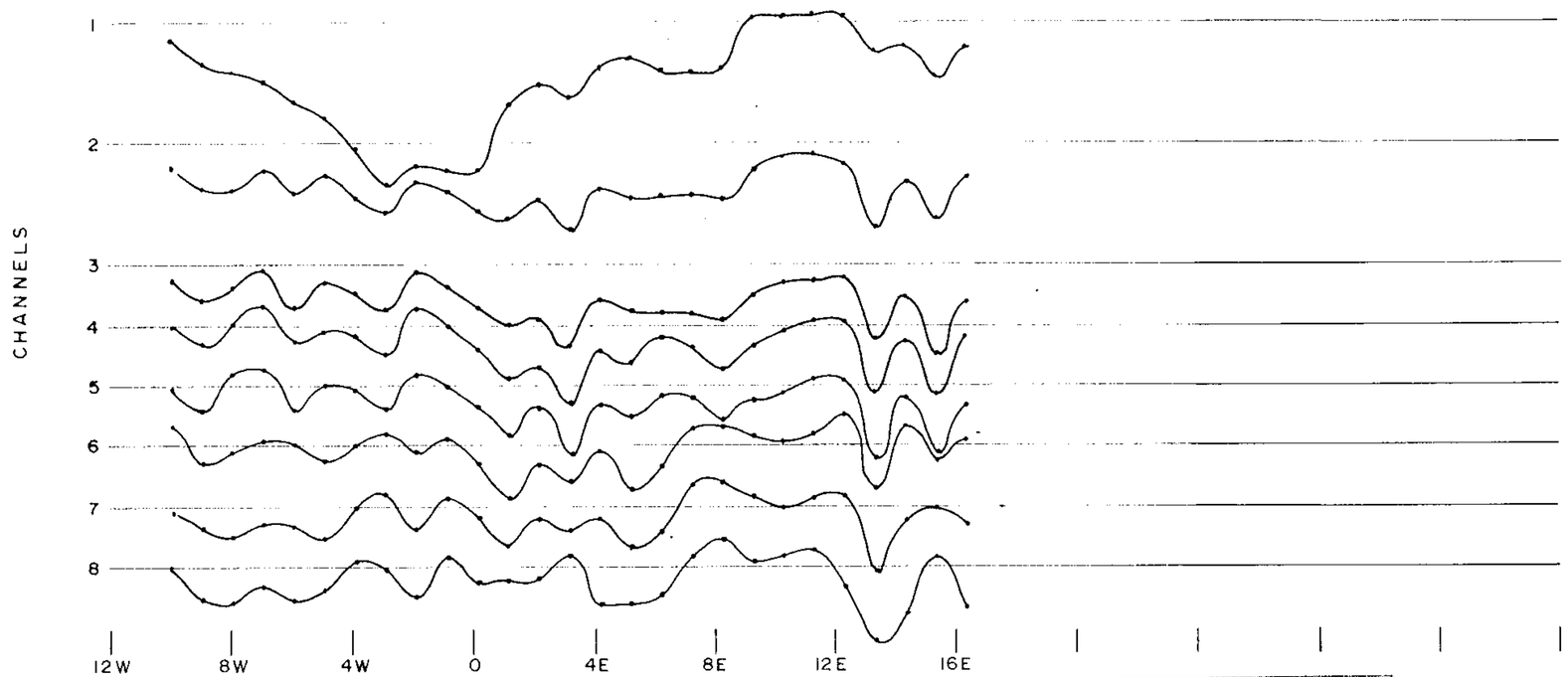
Six years Consulting Geophysicist.

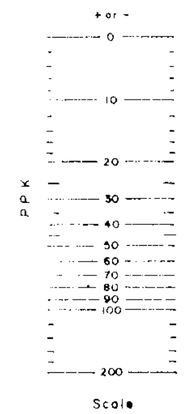
Active Experience in all Geologic provinces of Canada.

COST BREAKDOWN

Personnel	Date	Wages	Total
C. Candy	Jan. 16-30/78	$98/day	$1470.00
T. MacKenzie	"	90/day	1350.00
E. MacKenzie	"	90/day	1350.00
Meals and accomodations @ $25/day/man			1125.00
Instrument Lease			780.00
Vehicle 4x4 including gas			480.00
Interpretation, drafting maps and reports			
Total			$7405.00







INSTRUMENT - CRONE PEM.

400 200 0 400 800 1200
Feet

N.T.S. 93 L/7

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
6737
NO.

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
GLEN E. WHITE
GEOPHYSICIST

Date
By, GLEN E. WHITE

DU PONT EXPLORATION LTD.

BOB CREEK PROPERTY
OMINECA MINING DIVISION - BRITISH COLUMBIA

PULSE ELECTROMAGNETOMETER
SEPARATION 200 FT.
LINE R

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FIG. No : 3

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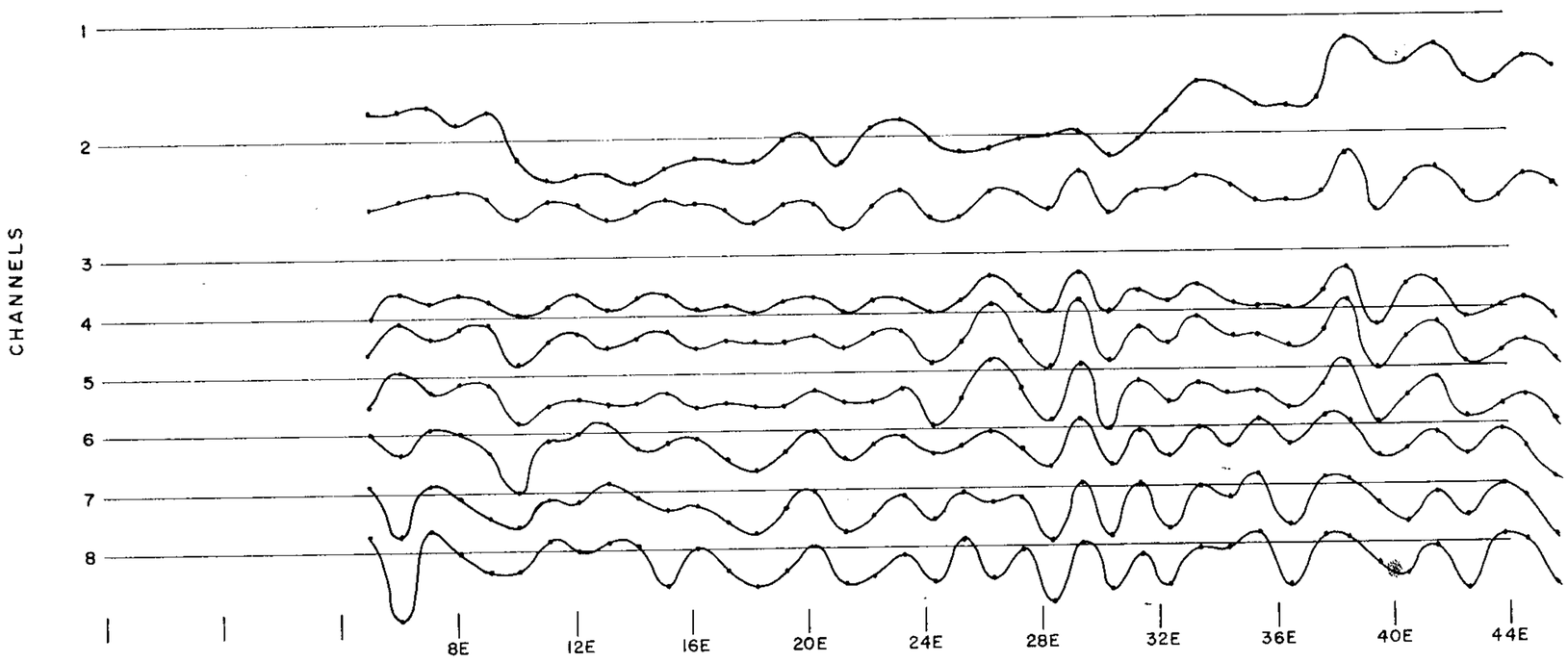

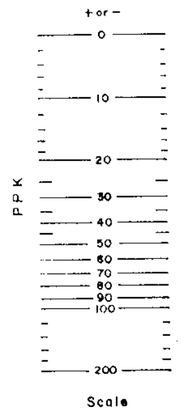

INSTRUMENT : CRONE P.E.M.

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Feet

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BOB CREEK PROPERTY

OMINECA MINING DIVISION - BRITISH COLUMBIA

PULSE ELECTROMAGNETOMETER
SEPARATION 200 FT.
LINE LBC

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
GLEN E. WHITE

To Accompany Geophysical Report on

Date .....
By GLEN E WHITE - B Sc ..... GEOPHYSICIST

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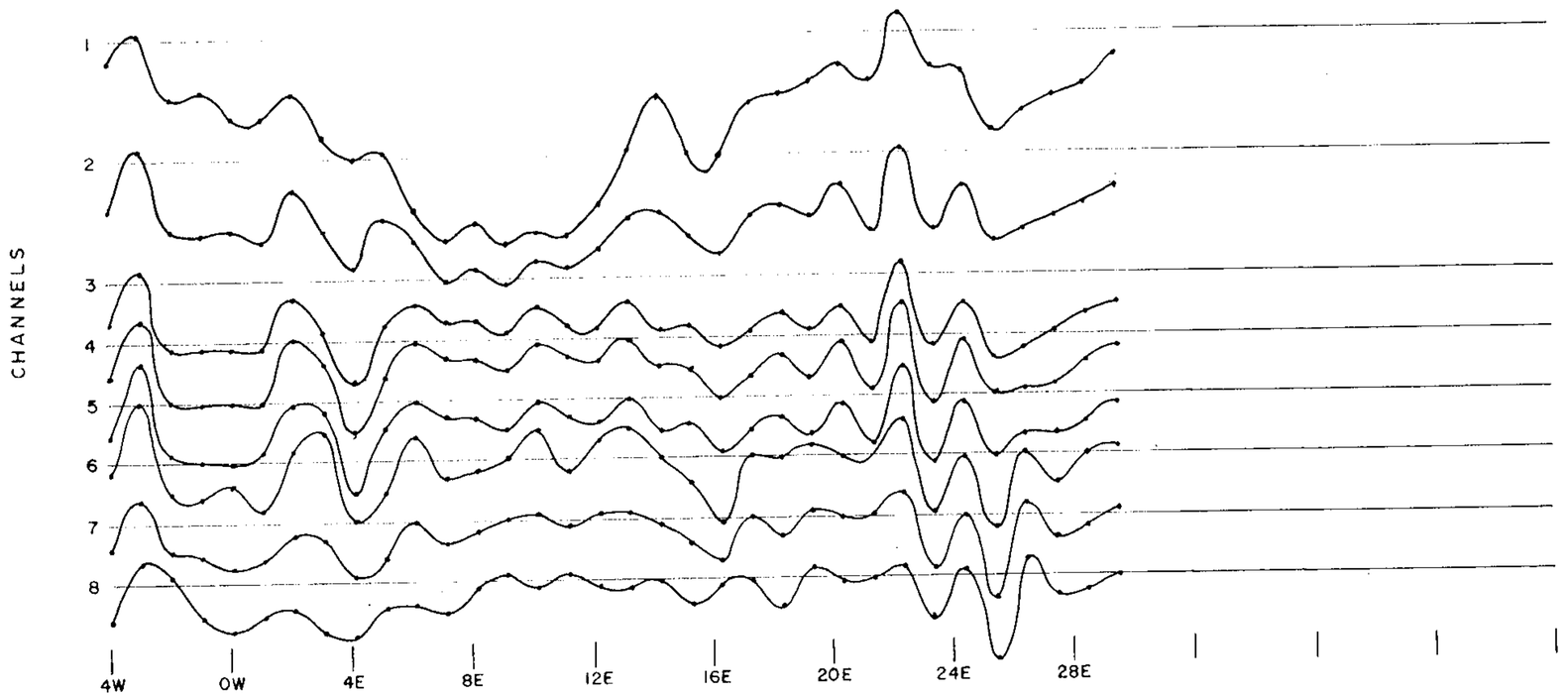
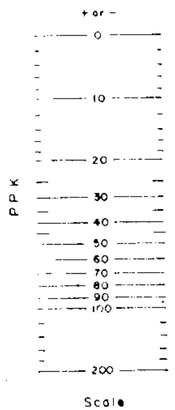
FIG. No. : 4	





INSTRUMENT - CRONE PEM.

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OMINECA MINING DIVISION - BRITISH COLUMBIA

PULSE ELECTROMAGNETOMETER
SEPARATION 200 FT.
LINE 30N

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FIG No : 5	

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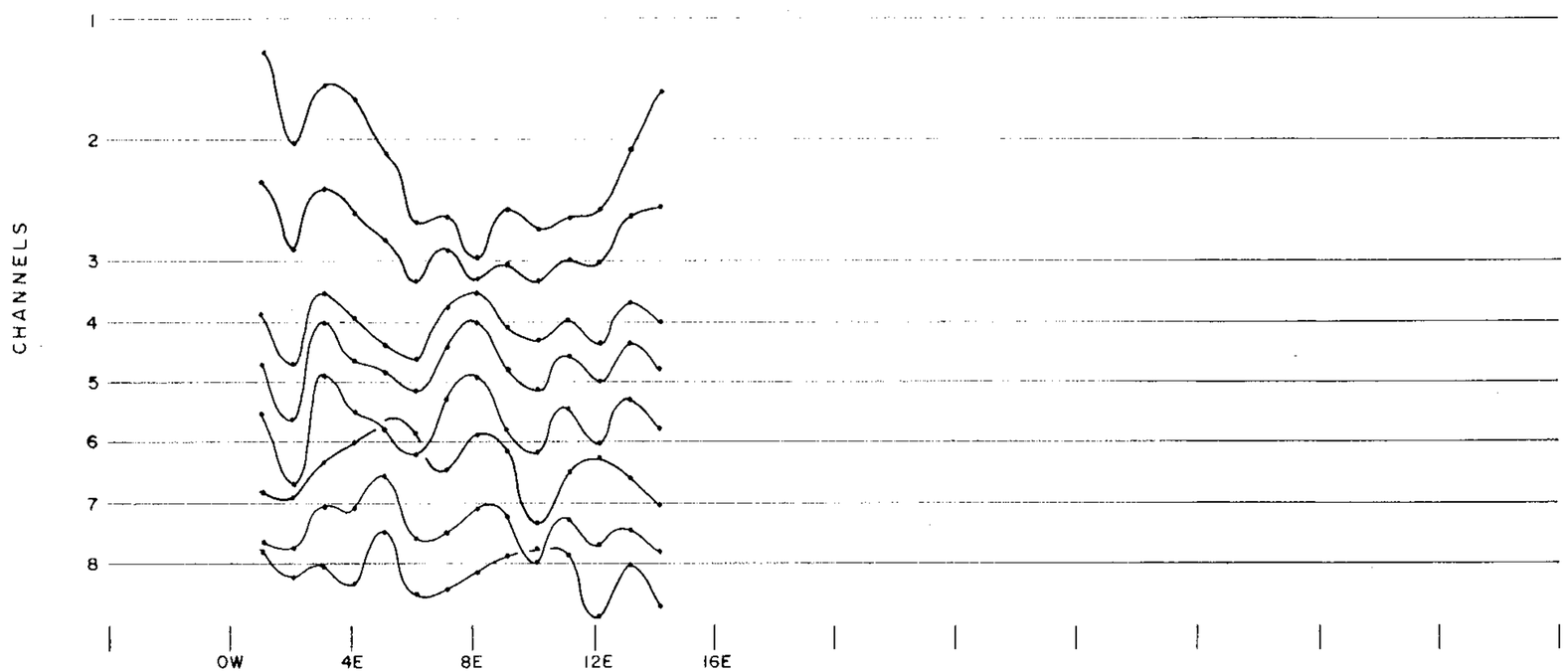

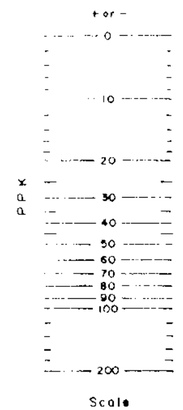

INSTRUMENT : CRONE PE.M.

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Feet

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BOB CREEK PROPERTY
OMINECA MINING DIVISION - BRITISH COLUMBIA

PULSE ELECTROMAGNETOMETER
SEPARATION 200 FT.
LINE 26 N

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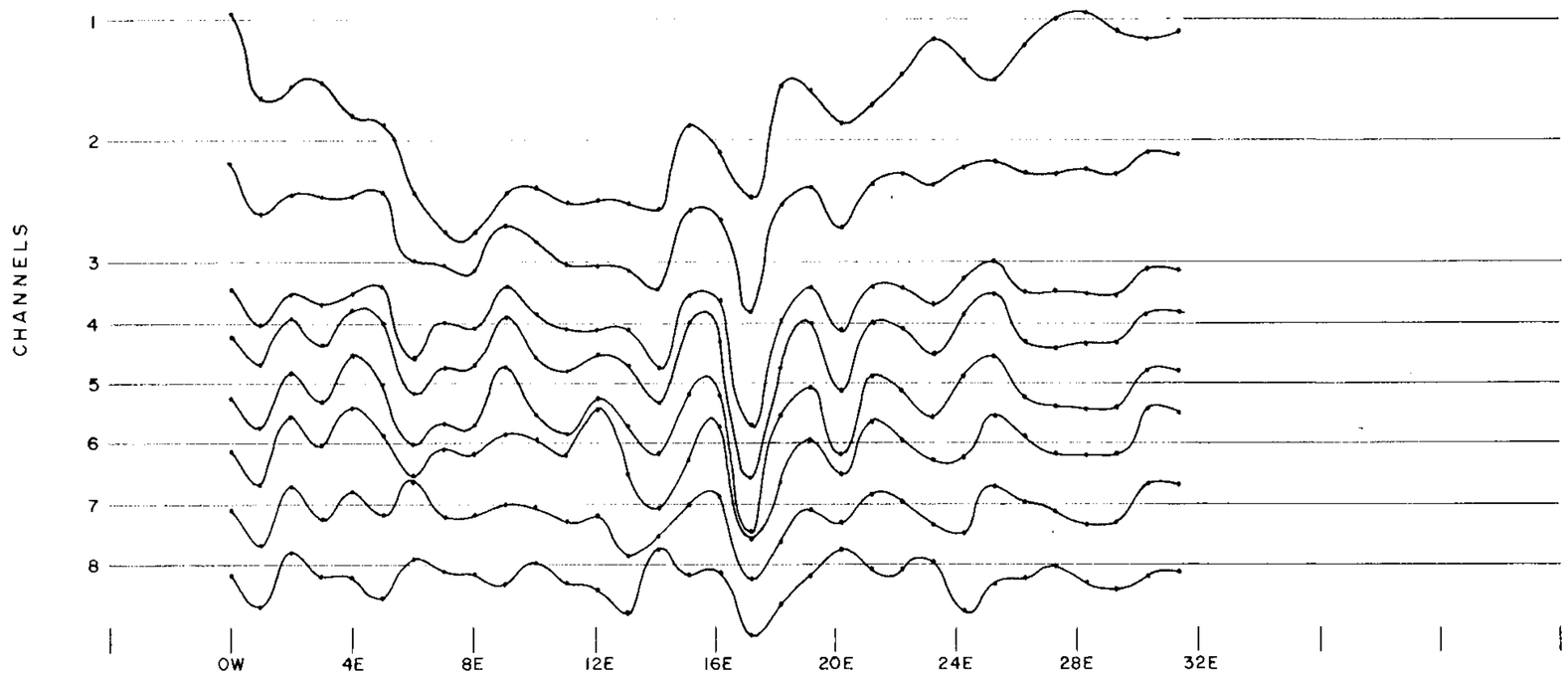

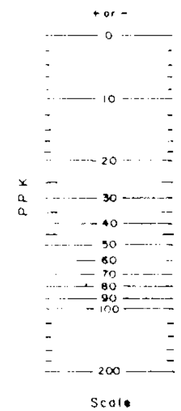

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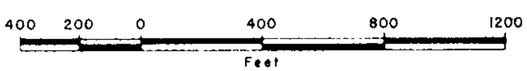

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OMINECA MINING DIVISION - BRITISH COLUMBIA

PULSE ELECTROMAGNETOMETER
SEPARATION 200 FT.
LINE 22+50N

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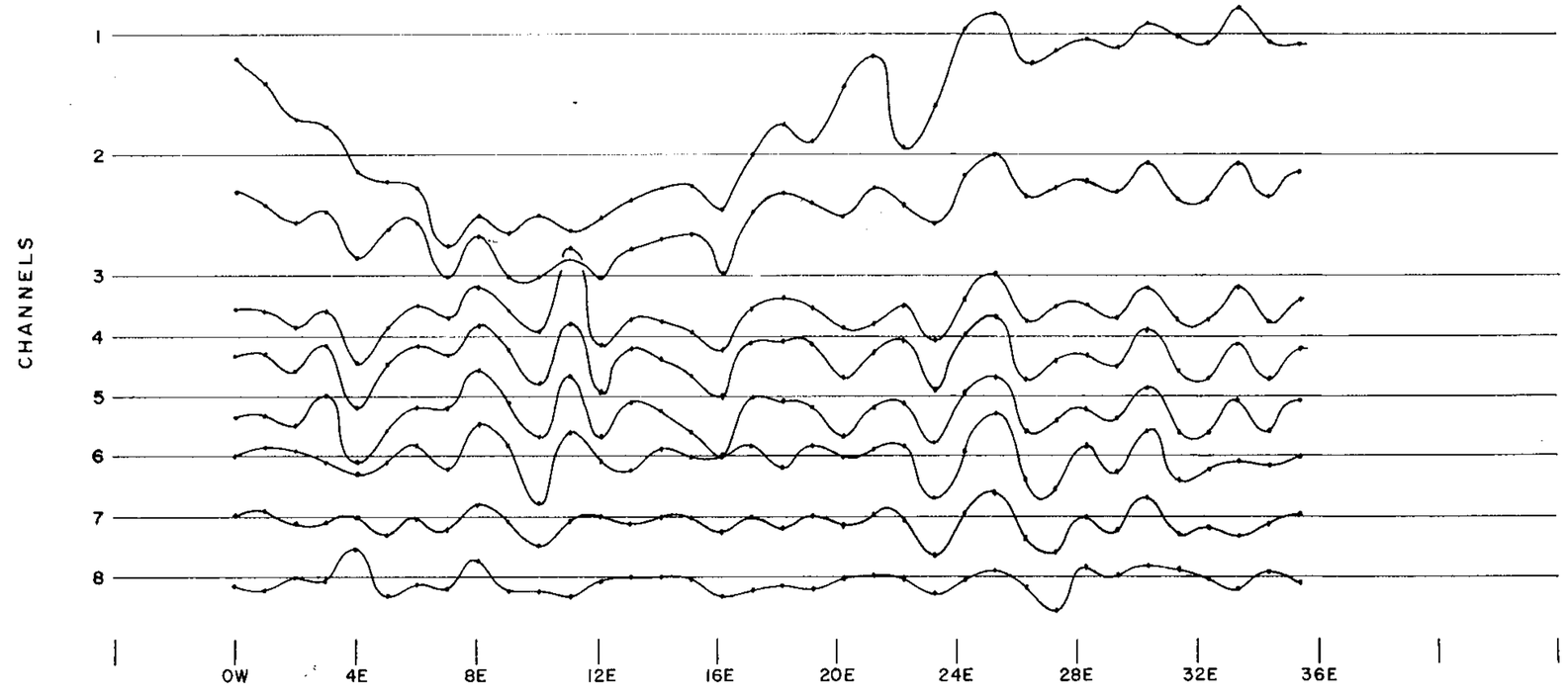

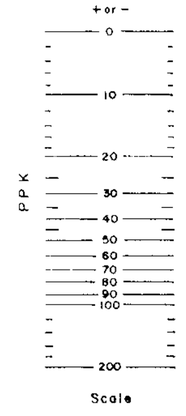

INSTRUMENT : CRONE P.E.M.

400 200 0 400 800 1200
Feet

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BOB CREEK PROPERTY
OMINECA MINING DIVISION - BRITISH COLUMBIA

PULSE ELECTROMAGNETOMETER
SEPARATION 200 FT.
LINE 18N

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FIG. No. : 8

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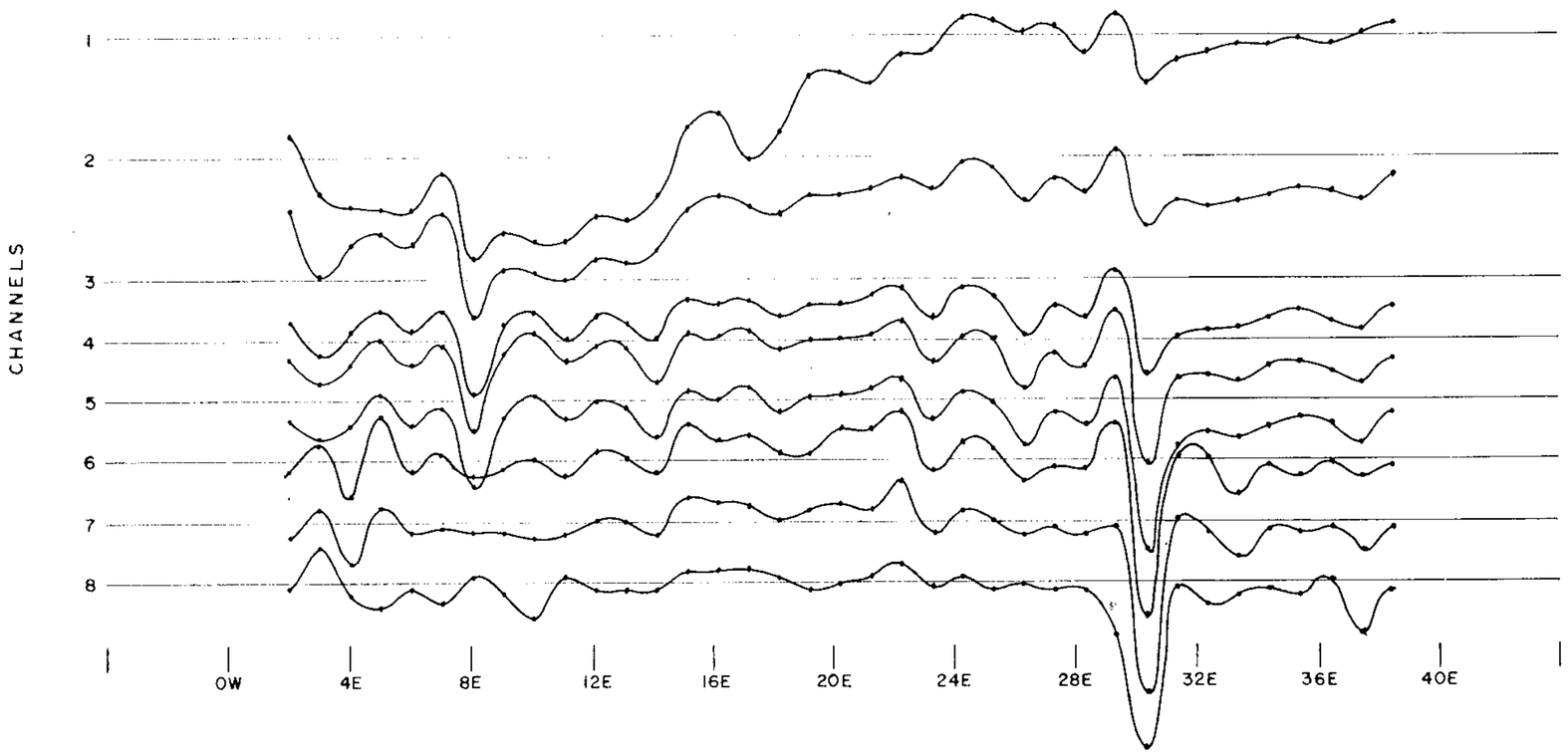

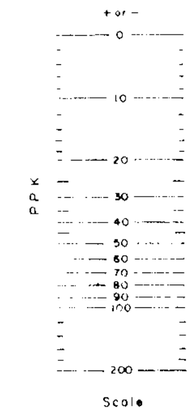

INSTRUMENT : CRONE PEM.

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Feet

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BOB CREEK PROPERTY
OMINECA MINING DIVISION - BRITISH COLUMBIA

PULSE ELECTROMAGNETOMETER
SEPARATION 200 FT.
LINE 15N

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
GLEN E. WHITE

A Company Geophysical Report

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By GLEN E WHITE B.Sc. ..... GEOPHYSICIST

Glen E White
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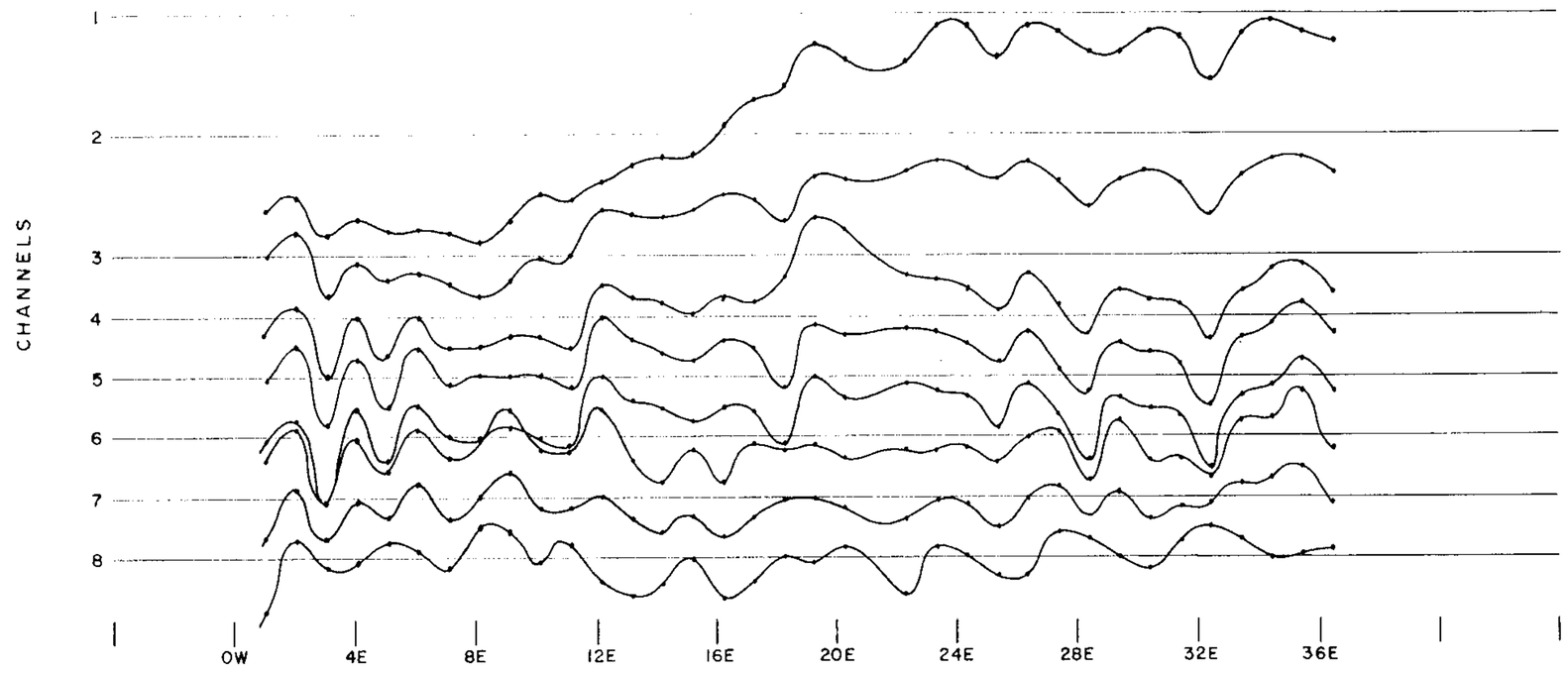

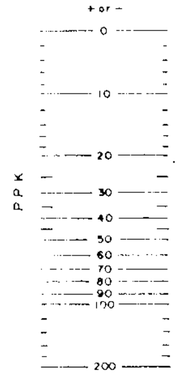

INSTRUMENT : CRONE PEM.

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Feet

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BOB CREEK PROPERTY

OMINECA MINING DIVISION - BRITISH COLUMBIA

PULSE ELECTROMAGNETOMETER
SEPARATION 200 FT.
LINE 12N

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FIG. No : 10

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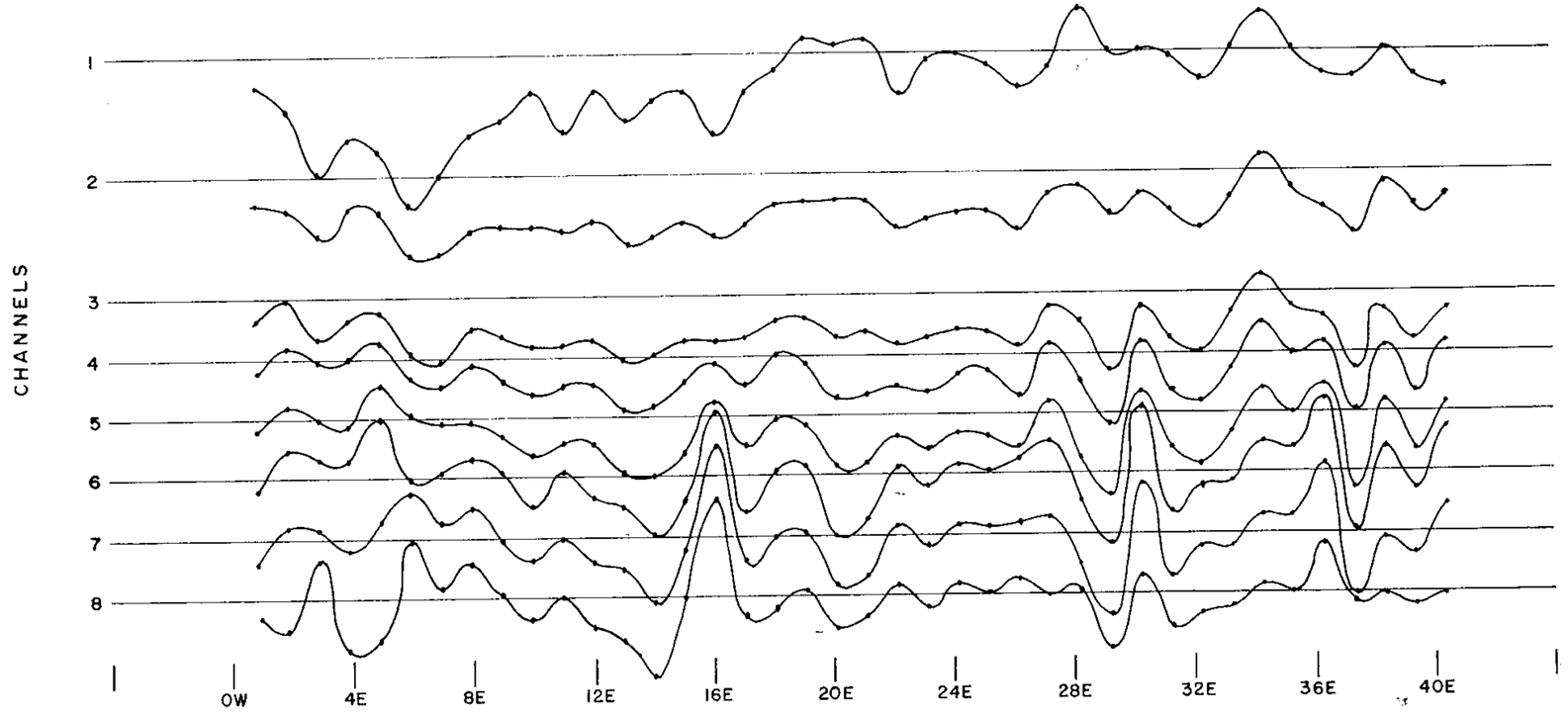

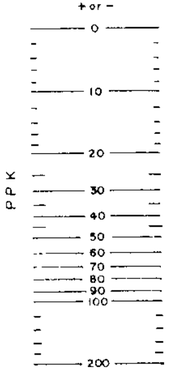

INSTRUMENT : CRONE P.E.M.

400 200 0 400 800 1200
Feet

N.T.S. 93 L/7

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BOB CREEK PROPERTY
OMINECA MINING DIVISION - BRITISH COLUMBIA

PULSE ELECTROMAGNETOMETER
SEPARATION 200 FT.
LINE 8+50N

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DRAWN BY : T M.
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FIG. No : 11

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GLEN E. WHITE

To Accompany Geophysical Report on

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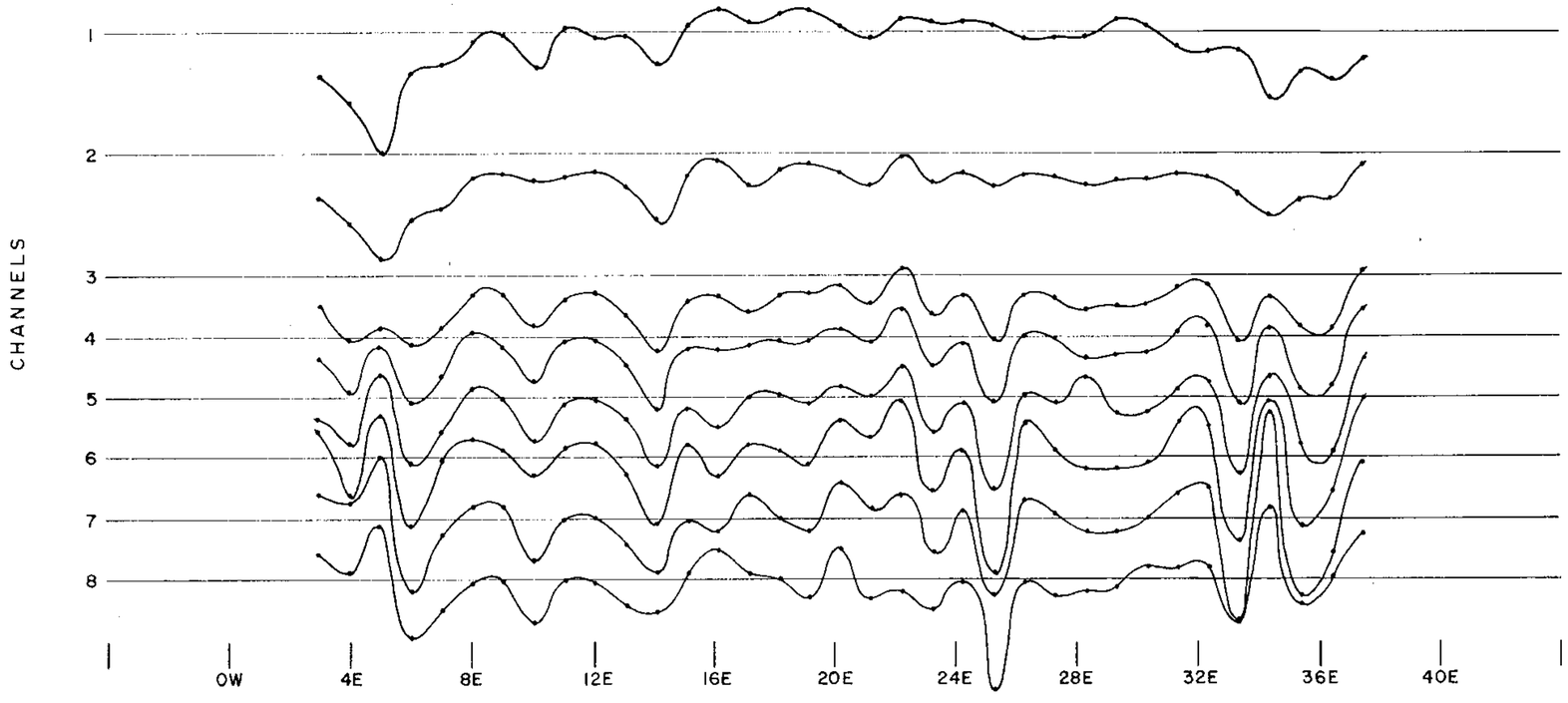

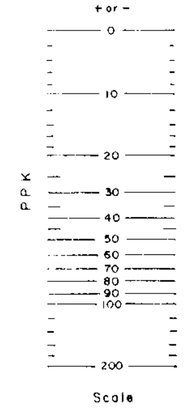

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PULSE ELECTROMAGNETOMETER
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LINE 2N

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FIG. No. : 12

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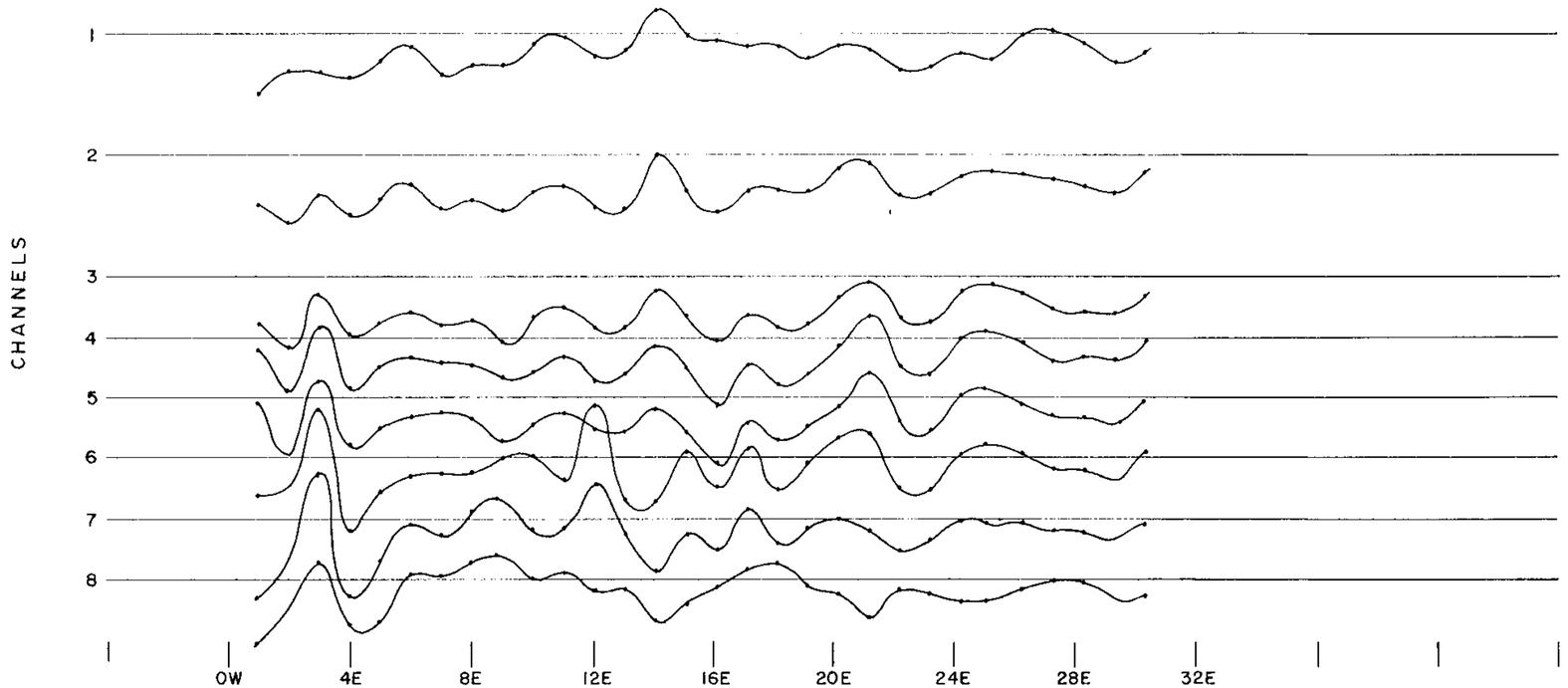

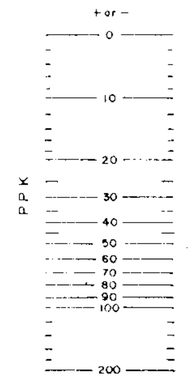

INSTRUMENT : CRONE P.E.M.

400 200 0 400 800 1200
Feet

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PULSE ELECTROMAGNETOMETER
SEPARATION 200 FT.
LINE 4S

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FIG No. : 13

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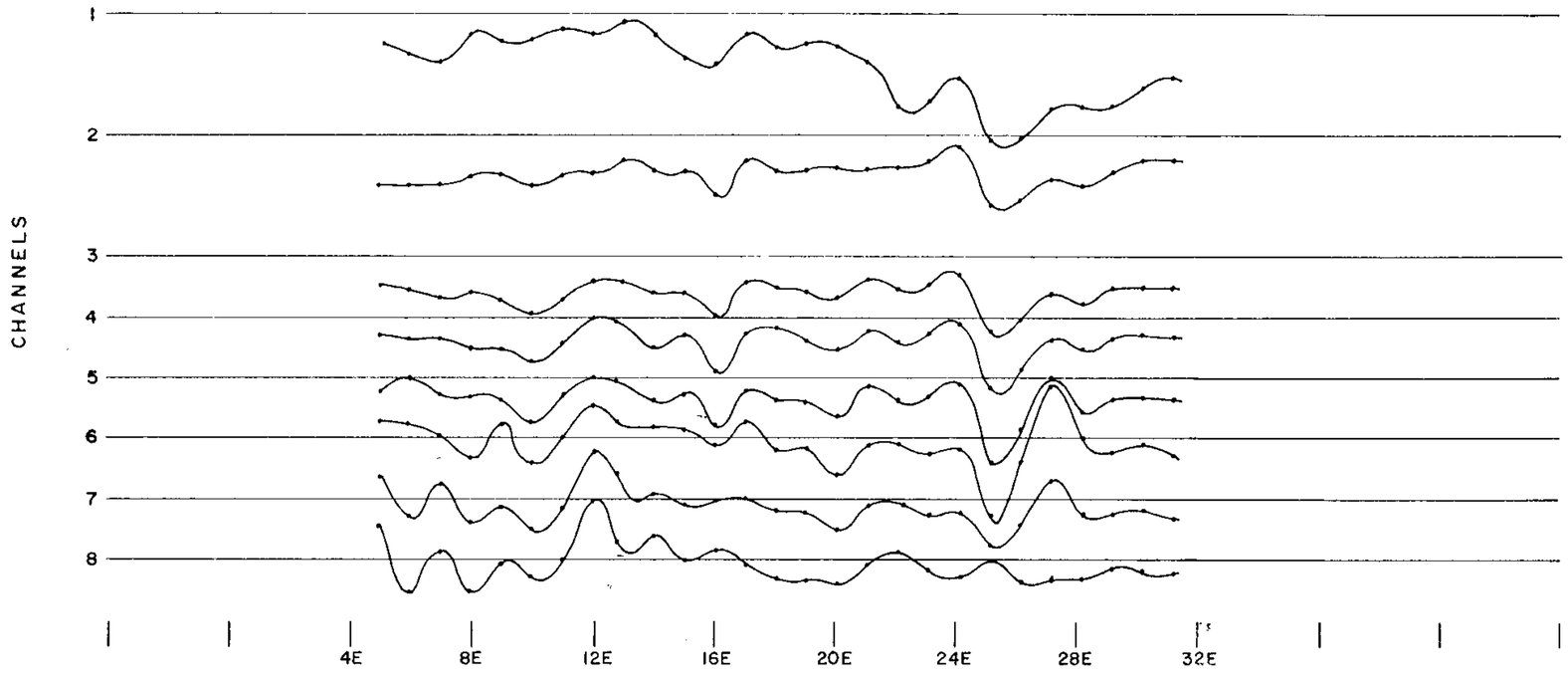

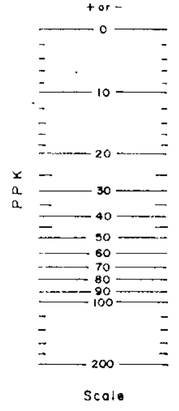

INSTRUMENT : CRONE P.E.M.

400 200 0 400 800 1200
Feet

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PULSE ELECTROMAGNETOMETER
SEPARATION 200 FT.
LINE 10S

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FIG. No : 14

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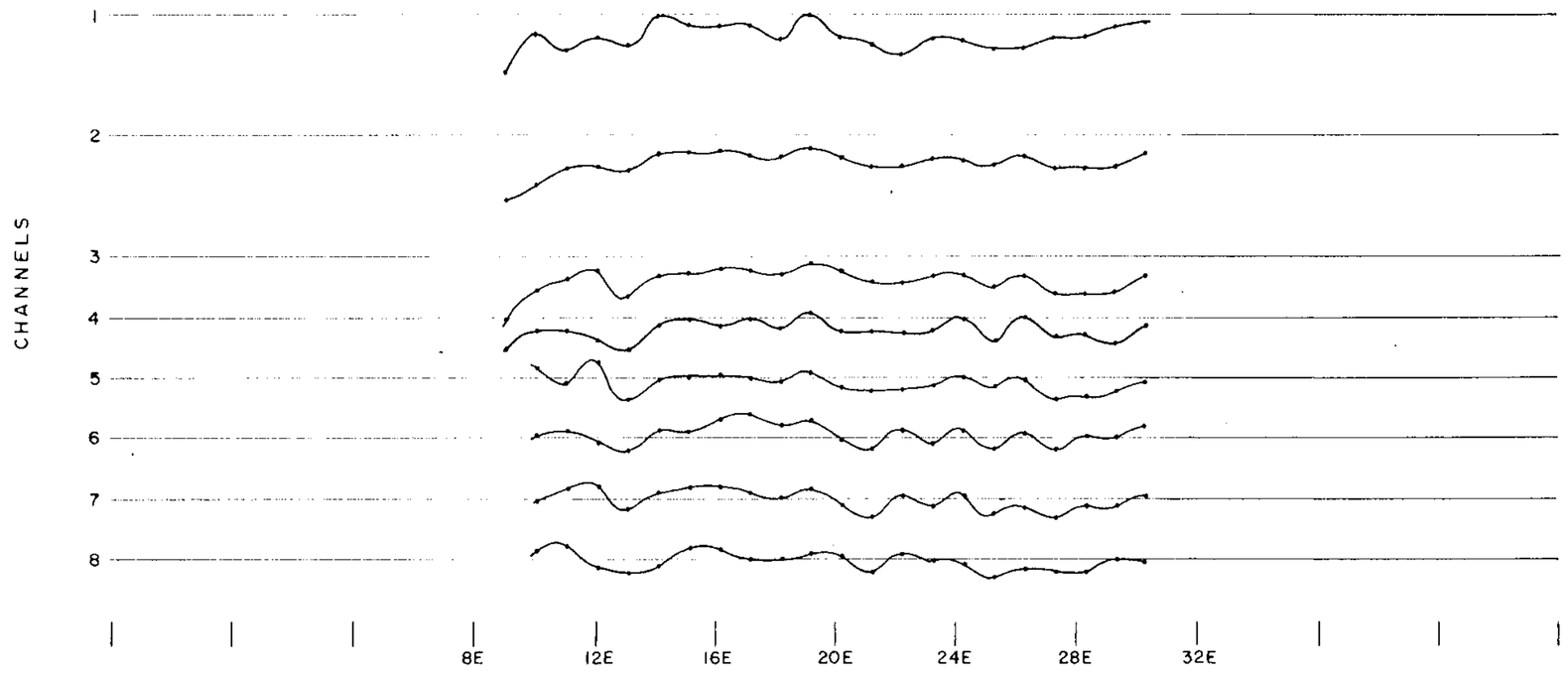

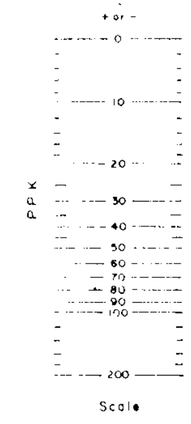

INSTRUMENT - CRONE PE M.

400 200 0 400 800 1200
Feet

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LINE 15 S

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FIG No : 15

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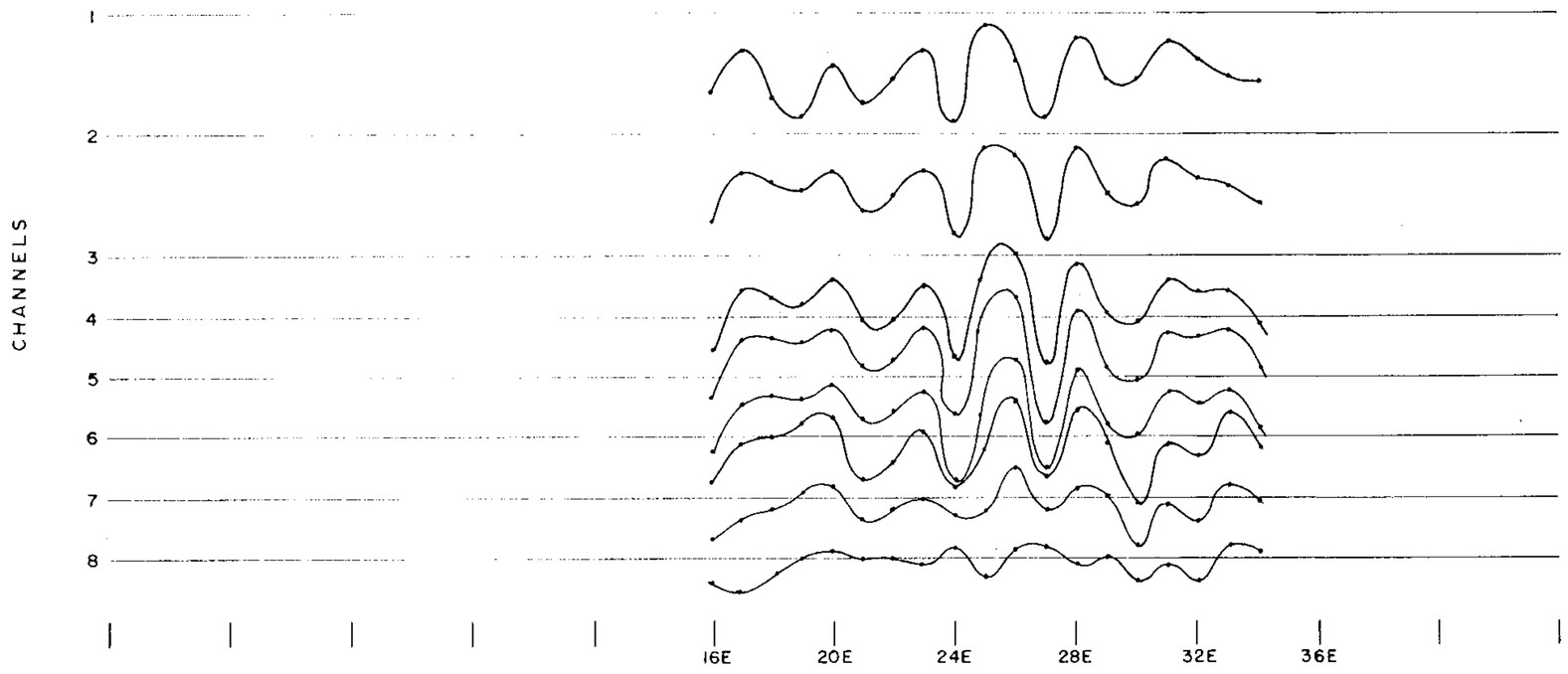

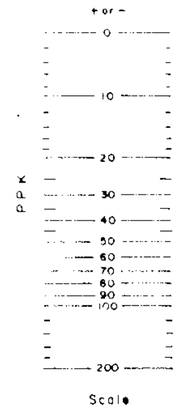

INSTRUMENT - CRONE PEM.

400 200 0 400 800 1200
Feet

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PULSE ELECTROMAGNETOMETER
SEPARATION 200 FT.
LINE 20 S

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FIG No : 16

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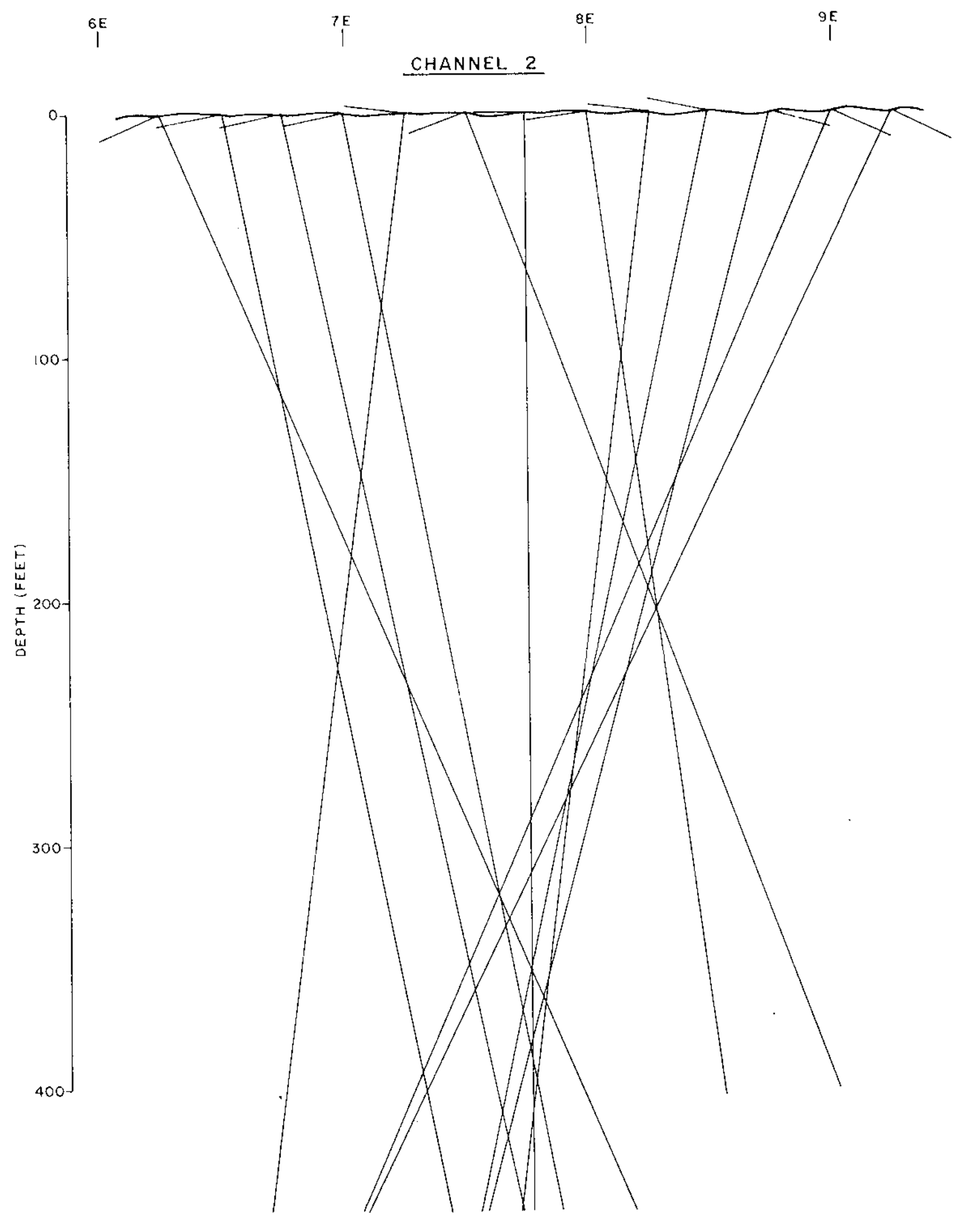

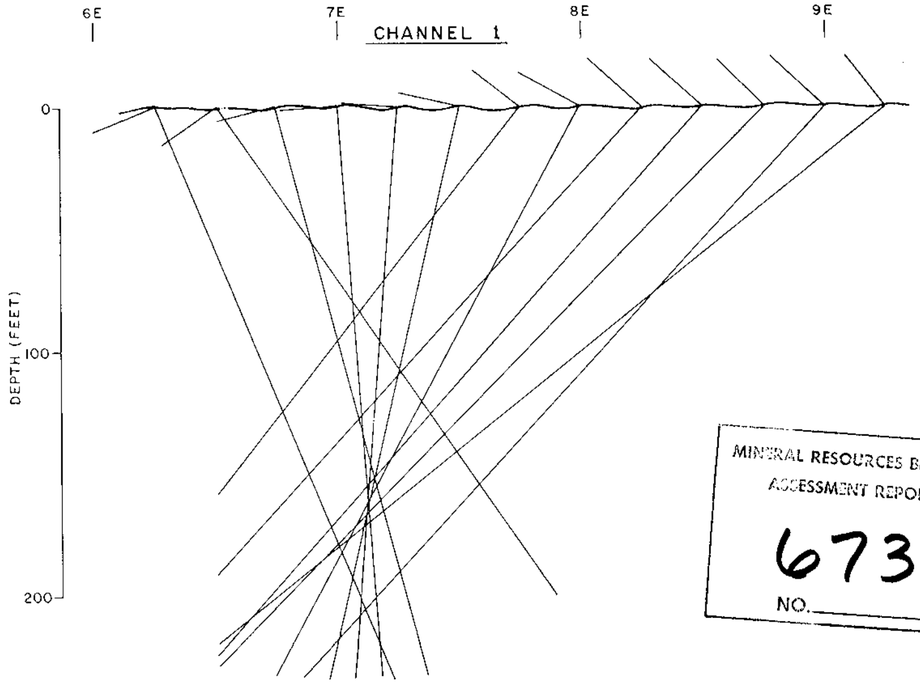

P.E.M. VERTICAL LOOP PROFILES

INSTRUMENT - CRONE P.E.M.

50 25 0 50 100 150
Feet

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LINE 26N

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BUCK CREEK

BOB CREEK

overburden

GEOCHEMICAL SOIL SAMPLING GRID (Samples taken at 100 foot intervals)

30N 30E 2500 2000 1500 1000 500

26N 32E

22.5 N

18N

15 N

12N 40E

8.5 N 41E

2N 36 E

4S

10S 33 E

15S

20S 35 E

CABIN

NABOB 253E

NABOB (353E)

NEW BUCK (451E)

LORNE (054W)

LORNE (154W)

N

overburden underlain by post ore rocks

almost continuous outcrop selected sites shown

The 'HORSESHOE'

STEEP SCARP

talus composed of post ore rocks

weak drainage swampy

angular An along unused track

photo linears expressed on the ground as natural fossae

andesite

Track

Small stream

Sam Goodly Lake

Parrott Lakes

HOUSTON

LEGEND

post ore
- b — Basalt, red basalt porphyry
- p — Feldspar porphyry dyke

? ga — Gabbro

pre pyr ore
- V_{1-3} — Acid volcanic suite (sequence not time specific)
  - V_1 — Rhyolite to dacite, fine to medium grained, locally porphyritic, quartz eyes; pyrite ubiquitous
  - V_2 — Similar V_1, medium to coarse grained
  - V_3 — Rounded rhyolite breccia; fragments and matrix same composition (similar to V_1); pyrite ubiquitous
  - V_4 — Angular rhyolite breccia; pyrite common
  - V_5 — Aphanitic felsite, pyrite ubiquitous
- An — Andesite; medium grained; contains pyrite locally

- Outcrop
- Trench
- Adit
- Claim post
- Bedding (possible)
- Foliation, shearing
- Glacial striae
- Contact
- Inferred contact
- Fault, bearing of slickensides
- (±2%) Estimated pyrite
- sp Sphalerite

- All weather gravel road
- Logging road
- Track

PULSE ELECTROMAGNETOMETER

MINOR P E M CONDUCTOR

CHANNEL ONE KEY

60
50
40
25
15

PPK

feet 200 100 0 200 400 600 feet
metres 50 0 100 200m

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
6737
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PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA GLENE E. WHITE

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FIG NO: 2

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GEOLOGY
BOB CREEK MASSIVE SULFIDE PROSPECT
OMINECA M.D., B.C.
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