Assessment Report

'79- #459- # 7663

GROUND GEOPHYSICAL PROJECT
ME GROUP

GOLDEN MINING DIVISION 82K/15W

BRITISH COLUMBIA

Claims: BR-2, 3, 6, 8, 10
RJR-1-5, 7-10
ML 1-2
RR 1-24

Location: West of Vowell Creek. 82 Kilometres southwest of Golden, British Columbia
Latitude 50 degrees 56 minutes north.
Longitude 116 degrees 58 minutes west.

Owner: Cochrane Oil and Gas Limited

Worked By: Norcen Energy Resources Limited

Date: July 10 - August 21, 1979

September 6, 1979

L. J. Smith, P. Geol.
D. A. Sawyer, P. Geol.

TABLE OF CONTENTS

I. INTRODUCTION

II. LOCATION AND ACCESS

III. ECONOMIC CONSIDERATIONS

IV. HISTORY

V. LAND STATUS

VI. GENERAL GEOLOGY

VII. 1979 LINECUTTING

VIII. 1979 GEOPHYSICAL SURVEYING

IX. EXPENDITURES

Appendix A

Geophysical Report on Vector Pulse Electromagnetometer and and Magnetic Surveys, by Glen White Geophysical Consulting and Services Limited.

STATEMENT OF QUALIFICATIONS

I. INTRODUCTION

This report will present the ground geophysical surveys carried out in 1979 under contract by Glen White Geophysical Consulting and Services Ltd. on behalf of Norcen Energy Resources Limited.

II. LOCATION AND ACCESS

The ME Group of 40 unpatented mineral claims are located 82 kilometres southwest of Golden, British Columbia in the Purcell Mountains (see location map). Access to the claims is by good gravel logging roads to the property road turn off near the junction of Vowell and Crystal Creeks. The property road is traversable by four-wheel drive vehicles only and leads from the valley floor to an elevation of approximately 1,900 metres above sea level.

The claim block lies within an elevation range from 1,350 to 2,400 metres above sea level.

III. ECONOMIC CONSIDERATIONS

Several past producing silver-lead-zinc mines (Giant Mascot, Mineral King, Paradise, and Ruth Vermont) are located within the area.

The area is located within easy access of power supply, rail, and road transportation services.

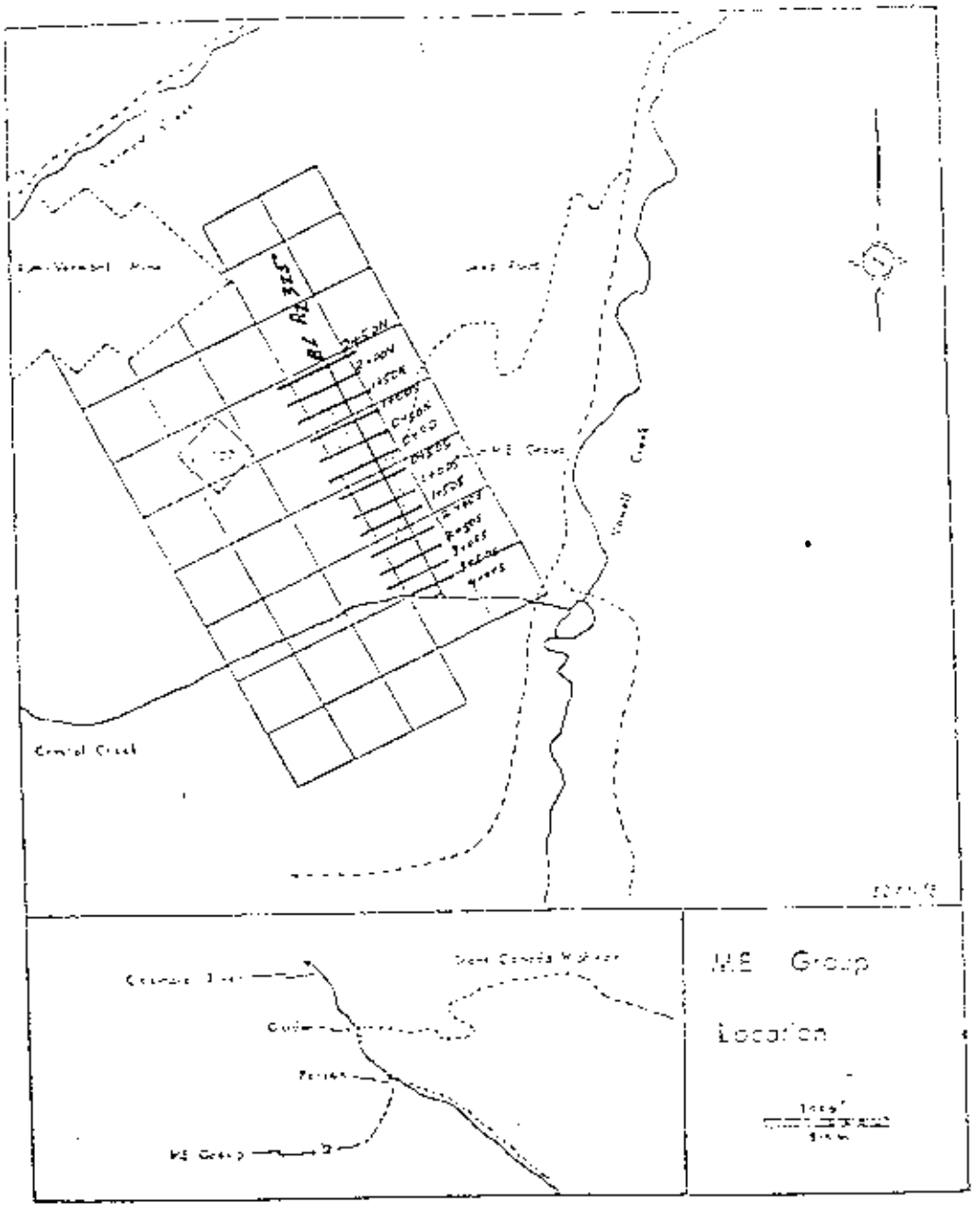
IV. HISTORY

The claims were staked by R. Renn of Calgary in 1966. The property has been worked sporadically since that time including road building, soil geochemical sampling, trenching and a minor amount of diamond drilling. Most of this previous exploration is poorly documented.

V. LAND STATUS

The ME Group consists of 40 claims that are presently held by Cochrane Oil and Gas Limited of Calgary, Alberta. The claims are held in good standing for several years.

Claim Name	Record No.
BR 2	13271
BR 3	13272
BR 6	13275
BR 8	13277
BR 10	13279
RJR 1	14188
RJR 2	14189
RJR 3	14190
RJR 4	14191


Crystal Creek
Crystal Creek
NE Group
Location

Claim Name	Record No.
RJR 5	14192
RJR 7	14194
RJR 8	14195
RJR 9	14196
RJR 10	14197
ML 1	14423
ML 2	14424
RR 1	14329
RR 2	14330
RR 3	14331
RR 4	14332
RR 5	14333
RR 6	14334
RR 7	14335
RR 8	14336
RR 9	14337
RR 10	14338
RR 11	14339
RR 12	14340
RR 13	14341
RR 14	14342
RR 15	14343
RR 16	14344
RR 17	14345
RR 18	14346
RR 19	14347
RR 20	14348
RR 21	14349
RR 22	14350
RR 23	14351
RR 24	14352

VI. GENERAL GEOLOGY

The ME Group claims are underlain by Proterozoic rocks of the Horsethief Creek series. The series includes slates and argillites of various colours, quartz pebble conglomerate, quartzite, feldspathic quartzite and grit, and minor limestone.

VII. 1979 LINECUTTING

A total of 9.3 line kilometres were cut, chained, and picketed by Norcen personnel between July 10 and August 13, 1979. A base-line of 650 metres in length was emplaced at 325° Az and cross line spaced at 50 metre intervals were cut and picketed at 25 metre intervals.

A breakdown of personnel employed by Norcen to cut, line and picket the grid is given below:

		Man-Days
Robert Chad -	July 10-15	6
Ron Hostiuk -	July 18-25, 27-30 August 1-6, 12-13	20
Rob Laird -	July 18-21, August 1-2, 12-13	8
Randy Montgomery-	August 3-6	4
		38

VIII. 1979 GEOPHYSICAL SURVEYING

Glen White Geophysical Consulting and Services Ltd. were engange by contract to carry out a ground magnetic and vector pulse-eletromagnetic survey over the grid emplaced by Norcen personnel. The geophysical crew performed these surveys during the period of August 13-21, 1979. A full report is contained within Appendix A.

IX. EXPENDITURES

A.	Contract Geophysics (as per attached invoice)	$ 6 230.00
B.	Linecutting 38 man-days X $100/man-day (the $100 per man-day figure includes salaries, accomodation, food, camp and equipment rentals, vehicle rental, travel costs, and material consumed).	$ 3 800.00
		$10 030.00

Norcen
Energy Resources Limited

NORCEN TOWER
715 - 5th Avenue S.W.
CALGARY, ALBERTA T2P 2X7
Phone (403) 231-0111

1980 February 19

Mr. E. J. Bowles,
Chief Gold Commissioner,
Ministry of Energy, Mines and Petroleum Resources
Parliament Buildings
Victoria, British Columbia
V8V 1X4

Dear Mr. Bowles:

Re: ME Group, File 166-Golden

In response to your letter dated January 25, 1980, I have outlined the itemized costs for the linecutting.

Rob Chad	July 10-15	5 days X $75/man day	$ 375.00
Ron Kostiuk	July 18-25, July 27-30, August 1-6, August 12-13	20 days X $75/man day	$1 500.00
Randy Montgomery	August 3-6	4 days X $75/man day	$ 300.00
Rob Laird	July 18-21, August 1-2, August 12-13	8 days X $90/man day	$ 720.00
			$2 895.00
Overhead (10%)			$ 289.50
Food and Accommodation charged @ $15.00/day X 38 man days			$ 570.00
Overhead (10%)			$ 57.00
			$3 811.50

Appendix A

Glen E. White GEOPHYSICAL CONSULTING & SERVICES LTD.

9231 Beckwith Road Richmond British Columbia V6X 1V7 Telephone: (604) 273-5952

[illegible], 19[illegible]

Mr. Joel Smith
Project Geologist
Tenneco Energy Resources Ltd.
715 - 5th Ave. S.W.
Calgary, Alberta T2P 2X7

INVOICE #136

To Professional Services -

Glen E. White Geophysical Consulting & Services Ltd.
Magnetometer and vector electromagnetic
surveying, Golden, B. C., Aug. 13-21/79
as per contract.....$6233.00
Field invoice #131.....($5003.00)

Balance.....$1230.00

Amount of this invoice.....$1230.00

NORCEN ENERGY RESOURCES
GEOPHYSICAL REPORT ON
VECTOR PULSE ELECTROMAGNETOMETER
AND
MAGNETOMETER SURVEYS

Golden area, B. C., Golden Mining Division
Lat. 50°55'N Long. 116°56'W N.T.S. 82 K/15

AUTHOR: Glen C. White, B.Sc., P. Eng.

DATE OF WORK: August 13 - 21, 1979

DATE OF REPORT: August 31, 1979

LOCATION MAP

NORCEN ENERGY RESOURCES LTD

GOLDEN

N.T.S. 82 K/15

Glen E. White
geophysical consulting
services ltd.

FIG. 1

CONTENTS

	PAGE
Introduction	1
Location and Access	1
Magnetometer Survey	1
Vector Pulse Electromagnetometer Survey	2
Discussion of Results	3 - 4
Conclusions	4
Recommendations	5
Instrument Specifications	6 - 8
Statement of Qualifications	9

Illustrations

Figure 1 - Location Map

Figure 2 - Magnetometer and VPEM response Trends

Figure 3 - S3, Component Profiles

INTRODUCTION

During the period August 13 - 21, 1979, a program of ground magnetometer and vector pulse electromagnetometer surveying was conducted on a property near Golden, B. C. by Glen E. White Geophysical Consulting & Services Ltd. on behalf of Norcen Energy Resources Ltd. The area was surveyed with two opposing loop setups to try and determine the attitude of any conductor detected. Nine hilometers of surveying were completed. This survey was undertaken on a rush basis to provide geophysical information to the field crew. Property and geological particulars were not provided.

LOCATION AND ACCESS

The survey area is located some 25 miles (35 km) due south of Golden, B. C. on the eastern flank of Mount Mountain along Powell creek. Lat 50°55'N, Longitude 115°56'W, N.T.S. 82 K/15, Golden Mining Division, B. C. The property is timbered, has a number of areas of steep topography and sections of windfall which impeded survey progress.

Access to the property is from Parson on highway 93 for a distance of 50 km along all weather logging roads and then 3 km on a cat road which requires a 4x4. Travelling time from Golden is approximately two hours.

MAGNETOMETER SURVEY

The magnetometer survey was conducted using a Scintrex MF-1 Fluxgate magnetometer. This instrument measures the vertical component of the earth's magnetic field to an accuracy of 10 gammas. Corrections for diurnal variation were made by tying into previously established base stations at intervals not exceeding one and one half hours. Readings were taken at 25 m intervals along the traverse lines.

VECTOR PULSE ELECTROMAGNETOMETER SURVEY

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

The primary field for the horizontal loop survey is obtained from a transmit loop 6 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 receive coil is generally spaced 25 - 100 meters from the transmit loop. Both are moved simultaneously from station to station. The secondary field signal on the receive coil is sampled and averaged for 10 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 secondary field is measured directly during the primary field off time, the pulse method is relatively free of geometrical restrictions between the transmit and receive coil positions, such as topography interference and coil alignment.

The primary field for the vector EM technique is obtained from a small turam type loop of 152 m (500 ft) per side which is energized with a current of some 25 amps at 24 volts. A scalar vector is obtained by determining the horizontal and vertical components of the secondary field. A right angle to this resultant vector points to the eddy current position. See Appendix for diagrams.

DISCUSSION OF RESULTS

The magnetometer data and vector response trends are illustrated on Figure 2. The vertical magnetic intensity data varied from a low of some 600 gammas to a high of 840 gammas. No magnetic trends were detected. The survey area would appear to be comprised of sedimentary rocks of low magnetic susceptibilities. The vector pulse electromagnetometer survey delineated a complex pattern of electromagnetic responses. These trends are depicted on Figure 2. The individual components are illustrated on Figures 3 - 54. Line 400S, loop B, Figures 3 and 4 show a vertical component crossover at 190N but with no horizontal component response. Line 350S has both loops A and B. Loop A, horizontal component, Figure 5, shows two parallel conductors, one between 125N and 150N and the other between 200N and 225N. These conductors show inflections down to channel 5 which would indicate moderate conductivities in this area. The vertical component gives a broad crossover at 175N midway between the two conductors which is what it should do. Loop B shows a classic horizontal and vertical component response between 200N and 225N. The horizontal component gives an excellent basin-like response in channel 1, and weaker into channel 2 which indicates low conductivity. The vertical component shows a strong channel 1 crossover to a weak one in channel 2. The conductors would appear to be dipping from vertical to steeply to the west, and has a center of current flow at a depth of some 75 to 100 m. This zone may possibly be plunging southward.

Line 300 S, loop A, horizontal component, shows good multichannel responses which tend to indicate that the eastern conductor is now the dominant one. The vertical component once again a midway crossover. Loop B shows the same two conductors but with poorer coupling into the lower channels. This would favour a westerly dip. Each loop will tend to look at the

opposite side of a conductive unit from the loop. Thus the true conductor position is midway between these two response. In a less complicated case where there is only one conductor this is an excellent conductor width indicator.

Proceeding northward from line 300S, loop A appears to give the best coupling to the conductors. By 200S, there is only a small response from loop B. Beginning at 200S, loop A shows a deep low frequency response around 275W. The depth to this target is likely in the order of 100 to 150 m. Loop B shows no coupling to this zone. On line 150S, loop B shows a good multichannel response between 225W and 250W. Loop A shows the deep late channel responses through to line 50N. Lines 150 to 250N contain more noise due to their distance from the primary loop. In this northern portion of the survey area, the easternmost conductor shown on Figure 2 appears in the upper channels 1 - 3 as a narrow near surface feature. However, loop B, on lines 100N and particularly 150N, Figures 47 and 48, indicates a deeply buried excellent conductor at 100W.. Note the classic horizontal component negative, and vertical component crossover in channels 4 - 8.

CONCLUSIONS

The vector pulse electromagnetometer survey delineated a number of conductors as depicted on Figure 2. No associated magnetic response was obtained. The southern lines 400S to 200S show a parallel set of conductors. A good response was obtained from the western one by loop B at a depth of some 75 - 100 m. This conductor may possibly plunge southward and would also appear to continue northward as indicated by the deep late channel responses from loop A. The dip of the conductors would appear to be close to vertical though a steep dip to the west is possible. The northeast section of the survey grid also contains a conductive lense which appears as a narrow surface feature that would appear to be increasing in conductivity and/ or width with depth.

RECOMMENDATIONS

It is recommended that minimum of four diamond drill holes be undertaken to evaluate the conductor trends as follows:

(A) That hole #1 be drilled along line 350S in an easterly direction to intersect the westerly conductor at a depth of some 85 m beneath station 215W.

(B) That hole #2 be drilled along line 300S in an easterly direction to intersect the easterly conductor at a depth of some 60 m beneath station 160W.

(C) That hole #3 be drilled along line 200S in an easterly direction to intersect the westerly conductor at a depth of some 100 m beneath station 275W.

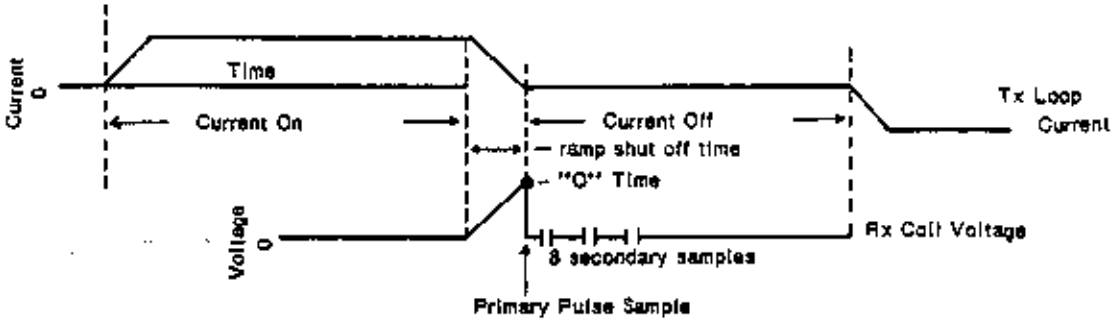
(D) That hole #4 be drilled along line 150N in a westerly direction to intersect the northeast conductor at a depth of some 100 m beneath station 100W.

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

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA GLEN E. WHITE

Glen E. White, 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

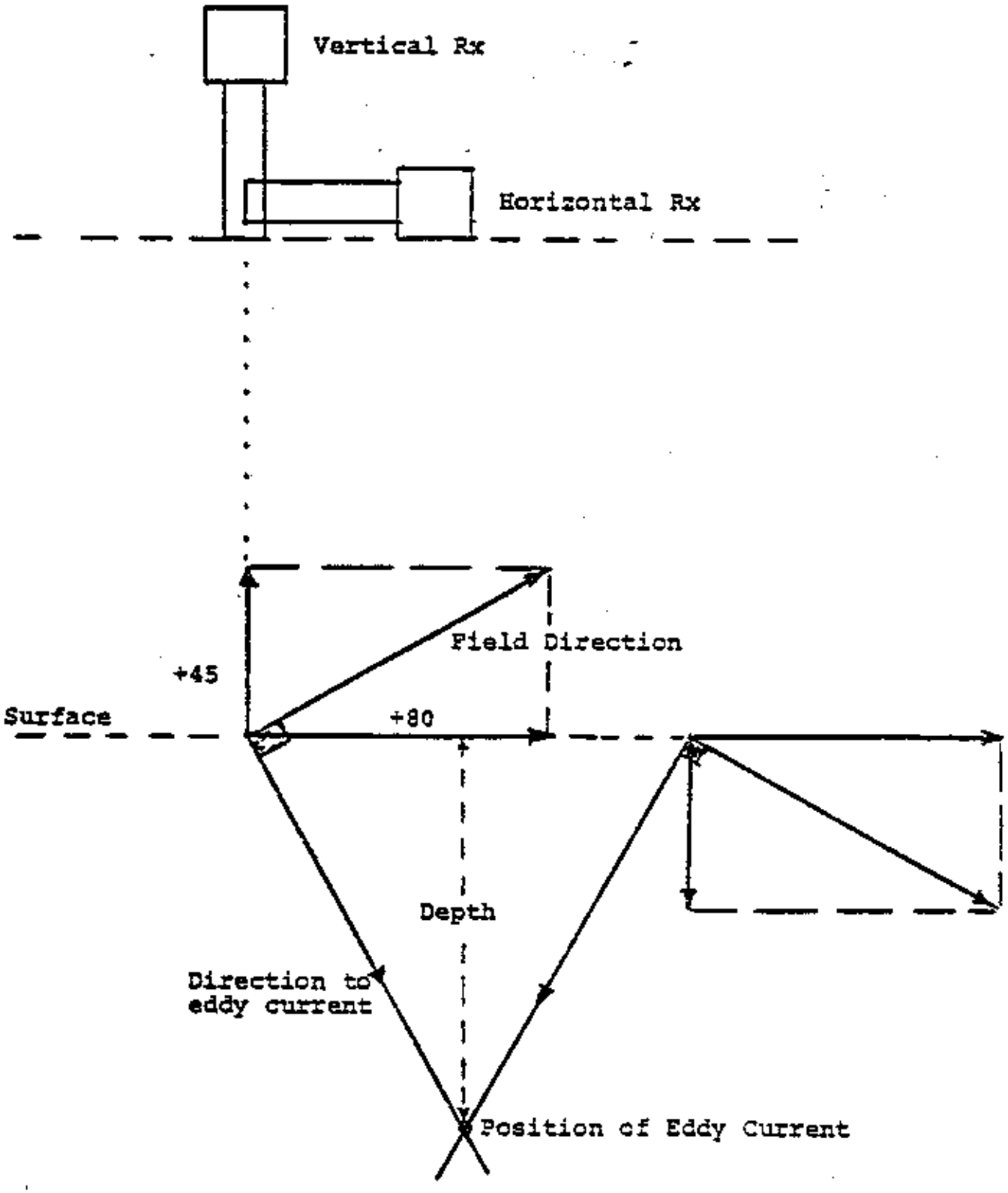
TRANSMITTER – Transmitter power and loop size may be increased to obtain increased penetration. Weight, portability and power capabilities of the control instrument are the limiting factors. The standard transmitter is designed to be carried by two men.

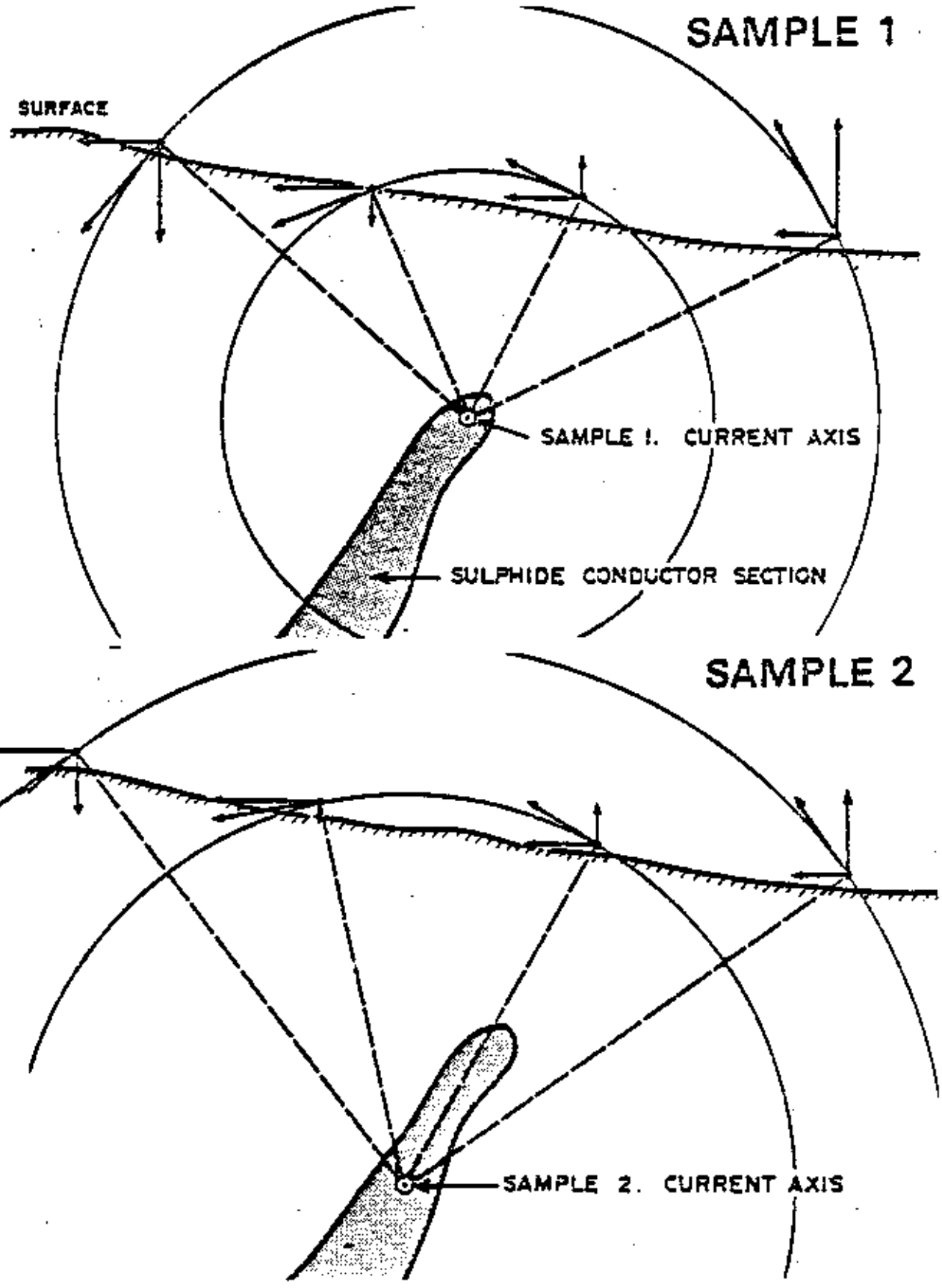
Loop diameter	– minimum 4 meters (13 feet)
Loop current	– 15 to 20 amps
Loop applied voltage	– 24 volts
Loop output	– minimum 4500 amps x meter ^{2}
Loop weight	– 11.8 kilos (26 lb)
Control unit weight	– 10 kilos (22 lb)
Control unit dimensions	– 20.5cm x 25.5cm x 38.5cm (8" x 10" x 14.5")
Battery supply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

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.

Eight years Consulting Geophysicist.

Active experience in all Geologic provinces of Canada.

CHANNEL			1	2	3	4	5	6	7	8	GAIN
LINE	STAT		LOOP	B							
400S	275W	VER:	-20	-40	-16	-3	-1	0	3	4	1.00
		HOR:	-210	-42	-15	-6	-3	2	3	-1	
400S	250W	VER:	-61	-30	-16	-5	-3	0	1	-3	0.85
		HOR:	-107	-25	-11	-4	-2	-2	-2	-1	
400S	225W	VER:	-48	-27	-14	-7	-4	-2	0	1	0.70
		HOR:	-102	-35	-14	-4	-5	4	1	-4	
400S	200W	VER:	-46	-30	-18	-10	-7	-6	-3	-1	0.65
		HOR:	-123	-33	-15	-9	-10	-10	-9	-13	
400S	175W	VER:	-24	-24	-20	-10	-8	-4	4	-2	0.50
		HOR:	-110	-40	-16	-4	-4	-6	6	-4	
400S	150W	VER:	-15	-24	-24	-11	-8	-11	-4	-11	0.45
		HOR:	-111	-35	-15	-8	-11	-6	-2	-6	
400S	125W	VER:	-17	-25	-20	-10	-5	-5	5	2	0.40
		HOR:	-90	-37	-20	-10	-10	-10	0	-10	
400S	100W	VER:	-20	-28	-25	-14	-11	-8	-2	0	0.35
		HOR:	-114	-40	-28	-14	-17	-11	-5	0	
400S	75W	VER:	-12	-16	-40	-32	-16	-12	-8	-8	0.25
		HOR:	-80	-40	-32	-24	-16	-12	-24	-28	
400S	50W	VER:	-28	-40	-36	-16	-8	-8	0	4	0.25
		HOR:	-60	-40	-44	-28	-16	-8	4	0	
400S	25W	VER:	-30	-35	-35	-20	-15	-10	-15	-10	0.20
		HOR:	-70	-40	-25	-10	-15	0	-5	5	
400S	00	VER:	300	500	330	-70	-35	-20	-10	-10	0.20
		HOR:	25	45	-325	-150	-50	-15	-10	0	

LINE	STAT		LOOP	B							
350S	350W	VER:	-42	-16	-8	-2	0	-1	1	0	1.00
		HOR:	-15	-10	-8	-2	-1	0	1	0	
350S	325W	VER:	-16	-14	-16	-8	-4	-3	-1	-2	1.00
		HOR:	-18	-17	-16	-4	-3	2	1	-4	
350S	300W	VER:	-17	-15	-19	-9	-4	-3	0	-2	1.00
		HOR:	-15	-14	-16	-6	-2	-2	1	-1	
350S	275W	VER:	-50	-25	-13	-4	-1	2	6	2	1.00
		HOR:	-63	-22	-11	2	7	7	1	2	
350S	250W	VER:	-45	-23	-13	-5	-2	-1	0	1	0.80
		HOR:	-87	-31	-12	-5	-5	-3	-2	2	
350S	225W	VER:	-48	-27	-14	-4	-2	0	0	0	0.85
		HOR:	-117	-38	-14	-2	-2	3	-2	-3	
350S	200W	VER:	-32	-24	-15	-7	-5	-2	0	1	0.70
		HOR:	-102	-32	-12	0	0	-1	-4	-5	
350S	175W	VER:	-21	-21	-16	-10	-5	-1	-5	-6	0.60
		HOR:	-86	-33	-15	-5	-6	-5	0	-6	
350S	150W	VER:	-18	-22	-20	-14	-6	-2	2	-2	0.50
		HOR:	-56	-32	-18	-10	-10	-6	-4	-6	
350S	125W	VER:	-6	-8	-24	-15	-8	-2	-4	-11	0.45
		HOR:	-22	-24	-33	-8	-2	-6	-4	-13	
350S	100W	VER:	-12	-15	-27	-20	-10	0	7	5	0.40
		HOR:	-40	-42	-45	-20	-10	-2	-10	-10	

CHANNEL			1	2	3	4	5	6	7	8	GAIN
350S	75W	VER:	-8	-11	-31	-20	-8	-2	0	8	0.35
		HOR:	-42	-40	-45	-20	-8	-5	-2	5	

LINE STAT LOOP 8

300S	400W	VER:	-9	-6	-8	-3	-1	0	1	0	1.00
		HOR:	-5	-3	-2	1	0	0	1	0	
300S	375W	VER:	-10	-7	-10	-3	-1	0	1	0	1.00
		HOR:	-10	-5	-7	-3	-2	-2	-3	-8	
300S	350W	VER:	-12	-9	-13	-6	0	2	5	6	1.00
		HOR:	-14	-8	-7	-1	-1	1	3	3	
300S	325W	VER:	-12	-10	-12	-6	-2	-1	1	0	1.00
		HOR:	-13	-10	-10	-4	-1	-1	-1	-4	
300S	300W	VER:	-13	-11	-16	-9	-4	-3	-1	-1	1.00
		HOR:	-14	-10	-9	-2	-1	2	0	0	
300S	275W	VER:	-16	-12	-18	-8	-4	-2	1	-1	1.00
		HOR:	-24	-15	-16	-8	-6	1	2	0	
300S	250W	VER:	-16	-14	-20	-9	-3	-1	2	2	1.00
		HOR:	-29	-22	-18	-4	-2	0	-1	-3	
300S	225W	VER:	-31	-25	-13	-3	1	2	6	1	1.00
		HOR:	-100	-30	-9	-1	0	-4	3	3	
300S	200W	VER:	-24	-17	-11	-4	-3	-1	1	0	0.85
		HOR:	-82	-27	-11	-1	-1	-2	3	1	
300S	175W	VER:	-15	-15	-15	-7	-2	-2	-1	-1	0.70
		HOR:	-42	-28	-14	-7	-4	2	-7	-7	
300S	150W	VER:	-15	-18	-25	-16	-10	-6	-5	1	0.60
		HOR:	-66	-35	-23	-8	-5	-3	3	6	
300S	125W	VER:	3	-5	-23	-20	-9	-3	-3	-1	0.55
		HOR:	-56	-45	-45	-16	-7	-5	-5	-7	
300S	100W	VER:	-22	-24	-20	-8	-4	-2	6	6	0.45
		HOR:	-31	-31	-33	-17	-11	2	4	0	
300S	75W	VER:	-5	-12	-27	-20	-7	-5	5	2	0.40
		HOR:	-27	-27	-35	-15	-12	-7	-7	-5	
300S	50W	VER:	-8	-14	-34	-28	-20	-17	-8	-14	0.35
		HOR:	-31	-31	-42	-17	-5	-8	5	5	

LINE STAT LOOP 8

250S	400W	VER:	-12	-6	-4	-1	0	0	1	1	1.00
		HOR:	-9	-2	-1	0	0	0	0	1	
250S	375W	VER:	-11	-6	-5	-2	-1	0	1	1	1.00
		HOR:	-7	-5	-4	-1	0	0	0	0	
250S	350W	VER:	-20	-9	-6	-3	-1	0	1	0	1.00
		HOR:	-16	-5	-3	-1	-1	0	0	-1	
250S	325W	VER:	-30	-15	-8	-3	0	2	3	0	1.00
		HOR:	-34	-10	-1	2	5	6	6	3	
250S	300W	VER:	-30	-12	-7	-4	-2	-2	-1	0	1.00
		HOR:	-30	-9	-6	-3	-2	-1	-1	2	
250S	275W	VER:	-32	-15	-9	-4	-2	-1	-1	0	1.00
		HOR:	-37	-12	-3	-4	2	-1	0	-2	

CHANNEL			1	2	3	4	5	6	7	8	GAIN
250S	250W	VER:	-10	-9	-12	-4	-1	0	0	-1	1.00
		HOR:	-35	-24	-19	-5	-1	1	0	-1	
250S	225W	VER:	-32	-20	-12	-5	-4	-3	-1	-1	1.00
		HOR:	-80	-25	-7	-3	-3	-4	0	-6	
250S	200W	VER:	-21	-17	-10	-6	-4	-3	-2	-3	0.94
		HOR:	-46	-15	-6	-2	-8	-8	3	0	
250S	175W	VER:	-18	-20	-13	-8	-5	-1	-1	-4	0.75
		HOR:	-74	-25	-6	0	2	-1	0	-4	
250S	150W	VER:	-15	-18	-15	-9	-7	-7	-3	-3	0.65
		HOR:	-43	-38	-33	-12	-9	-9	-7	-6	
250S	125W	VER:	-5	-9	-20	-14	-7	-5	-1	-1	0.55
		HOR:	-36	-29	-36	-18	-9	-3	-1	-9	
250S	100W	VER:	-10	-12	-27	-20	-15	-10	-7	0	0.40
		HOR:	-25	-25	-35	-15	-17	-25	-30	-40	
250S	75W	VER:	-8	-14	-31	-25	-5	-5	-2	2	0.35
		HOR:	-37	-31	-34	-17	-5	-2	-5	-2	
250S	50W	VER:	-11	-14	-37	-28	-11	-5	-2	0	0.35
		HOR:	-40	-34	-42	-20	-8	-5	-2	0	

LINE STAT LOOP B

200S	400W	VER:	-4	-2	-3	-2	-1	-1	0	0	1.00
		HOR:	-4	-3	-2	-1	0	0	0	0	
200S	375W	VER:	-8	-5	-5	-3	-3	-4	-5	-5	1.00
		HOR:	-9	-4	-3	-1	-3	-4	-6	-7	
200S	350W	VER:	-7	-6	-7	-4	-1	-1	-1	-1	1.00
		HOR:	-9	-5	-4	-2	-2	-2	-3	-3	
200S	325W	VER:	-15	-6	-5	-1	0	1	1	0	1.00
		HOR:	-14	-4	-3	0	0	-1	0	-2	
200S	300W	VER:	-9	-8	-10	-5	-3	-2	-1	0	1.00
		HOR:	-11	-9	-10	-2	-2	-1	-1	0	
200S	275W	VER:	-10	-9	-12	-6	-3	-1	0	0	1.00
		HOR:	-18	-15	-15	-6	-3	-1	0	-1	
200S	250W	VER:	-11	-10	-13	-6	-3	-3	-3	-2	1.00
		HOR:	-27	-20	-20	-10	0	1	1	3	
200S	225W	VER:	-10	-10	-16	-9	-3	-1	1	2	1.00
		HOR:	-14	-13	-13	-4	-2	-1	1	2	
200S	200W	VER:	-12	-12	-15	-10	-4	-3	-2	0	0.95
		HOR:	-25	-21	-24	-11	-5	-2	1	6	
200S	175W	VER:	-5	-8	-14	-10	-7	-8	-7	-8	0.70
		HOR:	-35	-30	-31	-14	-5	-4	-7	-7	
200S	150W	VER:	-7	-8	-21	-14	-7	-5	-2	-1	0.70
		HOR:	-31	-25	-31	-14	-7	-4	-1	1	
200S	125W	VER:	-6	-8	-25	-20	-6	-5	-3	-3	0.60
		HOR:	-40	-35	-43	-20	-5	0	5	6	
200S	100W	VER:	-6	-10	-24	-20	-8	-4	-2	0	0.50
		HOR:	-22	-24	-26	-18	-12	-8	-10	4	
200S	75W	VER:	-6	-11	-31	-22	-8	-6	-4	2	0.45
		HOR:	-40	-35	-53	-33	-11	-4	2	8	

CHANNEL			1	2	3	4	5	6	7	8	GAIN
200S	50W	VER:	-8	-14	-37	-28	-14	-5	0	2	0.35
		HOR:	-22	-22	-28	-14	-5	2	5	5	

LINE STAT LOOP B

150S	400W	VER:	-3	-2	-3	-1	0	0	1	1	1.00
		HOR:	-2	-2	-2	-1	0	0	0	0	
150S	375W	VER:	-5	-3	-4	-2	-1	0	0	0	1.00
		HOR:	-4	-2	-1	1	2	4	7	15	
150S	350W	VER:	-7	-5	-6	-3	-1	-1	0	0	1.00
		HOR:	-7	-5	-5	-2	-1	0	0	0	
150S	325W	VER:	-7	-6	-8	-5	-3	-2	-1	-1	1.00
		HOR:	-6	-5	-3	-1	-1	-1	-1	-2	
150S	300W	VER:	-11	-9	-13	-6	-3	-2	-1	-1	1.00
		HOR:	-14	-11	-10	-3	-2	-1	0	0	
150S	275W	VER:	-11	-8	-13	-7	-3	-2	-1	0	1.00
		HOR:	-18	-13	-11	-2	-1	1	2	4	
150S	250W	VER:	-12	-10	-14	-7	-3	-1	0	1	1.00
		HOR:	-34	-22	-18	-5	-3	-2	-1	-1	
150S	225W	VER:	-10	-10	-16	-10	-5	-4	-1	-1	1.00
		HOR:	-36	-27	-25	-10	-4	-2	-1	0	
150S	200W	VER:	-9	-10	-19	-14	-8	-8	-5	-4	1.00
		HOR:	-21	-20	-16	-2	3	3	-1	-2	
150S	175W	VER:	-8	-8	-17	-12	-4	-1	1	3	0.90
		HOR:	-27	-22	-22	-10	-5	-1	2	4	
150S	150W	VER:	-5	-8	-20	-12	-6	-5	-1	-1	0.80
		HOR:	-32	-27	-25	-6	-3	-2	0	0	
150S	125W	VER:	-6	-8	-25	-16	-5	-1	1	1	0.60
		HOR:	-33	-26	-28	-6	-3	0	0	0	
150S	100W	VER:	-6	-8	-26	-17	-8	-6	-4	-4	0.45
		HOR:	-26	-24	-24	2	11	22	33	26	
150S	75W	VER:	-7	-10	-22	-20	-15	-12	-7	-7	0.40
		HOR:	-32	-30	-40	-22	-17	-12	-10	-12	
150S	50W	VER:	-10	-13	-33	-26	-13	-6	0	6	0.30
		HOR:	-46	-40	-50	-16	-20	0	-3	-3	

LINE STAT LOOP B

100S	400W	VER:	-6	0	-3	-3	-1	0	1	0	0.61
		HOR:	-4	-1	-1	0	0	0	0	0	
100S	375W	VER:	-19	0	-12	-22	-12	-9	-6	-3	0.31
		HOR:	-12	-9	-6	0	-3	-3	-3	-3	
100S	350W	VER:	-8	0	-4	-5	-2	-1	0	0	1.00
		HOR:	-6	-4	-4	-2	-1	0	1	0	
100S	325W	VER:	-8	-7	-9	-4	-2	-1	1	1	1.00
		HOR:	-8	-3	-7	-4	-2	-1	0	0	
100S	300W	VER:	-10	-3	-8	-7	-3	-1	1	1	1.00
		HOR:	-10	-2	-8	-4	-1	0	0	-2	
100S	275W	VER:	-11	-2	-10	-10	-4	-2	0	1	1.00
		HOR:	-15	-10	-6	-2	-2	-2	-2	-2	

CHANNEL			1	2	3	4	5	6	7	8	GAIN
100S	250W	VER:	-11	-9	-14	-8	-3	-2	-1	0	1.00
		HOR:	-24	-17	-21	-7	-3	-2	-1	1	
100S	225W	VER:	-10	0	-10	-14	-6	-3	-1	-2	1.00
		HOR:	-24	-10	-15	-7	-4	1	1	2	
100S	200W	VER:	-10	0	-12	-20	-11	-4	-1	0	1.00
		HOR:	-31	-10	-22	-18	-10	-6	-3	-2	
100S	175W	VER:	-8	0	-10	-20	-10	-4	-3	-3	0.85
		HOR:	-28	-24	-25	-20	-15	-7	-8	-9	
100S	150W	VER:	-6	0	-9	-18	-9	-8	-8	-13	0.75
		HOR:	-33	0	-29	-33	-13	-6	-6	-13	
100S	125W	VER:	-3	-6	-20	-15	-8	-3	0	0	0.60
		HOR:	-25	-25	-30	-16	-8	-3	0	1	
100S	100W	VER:	-6	-8	-20	-16	-8	-4	-2	-8	0.50
		HOR:	-30	-24	-32	-12	-6	-4	-4	-10	
100S	75W	VER:	-6	-11	-26	-20	-6	2	6	11	0.45
		HOR:	-35	-31	-37	-6	-2	-4	0	-2	
100S	50W	VER:	-5	0	-10	-25	-17	-10	-2	0	0.40
		HOR:	-35	-27	-37	-15	-2	0	-2	-7	

LINE	STAT		LOOP 8								
50S	400W	VER:	-6	-1	-3	-3	-1	0	1	1	1.00
		HOR:	-4	-2	-3	-1	0	0	0	0	
50S	375W	VER:	-8	1	-4	-5	-3	-2	0	0	1.00
		HOR:	-6	-3	-5	-3	-2	-1	-1	0	
50S	350W	VER:	-11	-7	-10	-6	-4	-2	0	0	1.00
		HOR:	-8	-4	-3	3	2	2	2	2	
50S	325W	VER:	-12	-4	-10	-7	-2	-1	0	0	1.00
		HOR:	-12	-2	-9	-7	-3	0	1	1	
50S	300W	VER:	-16	-9	-15	-11	-7	-6	-5	-6	1.00
		HOR:	-25	-5	-18	-16	-6	-4	-3	-5	
50S	275W	VER:	-13	1	-10	-12	-5	-3	-1	0	1.00
		HOR:	-22	-12	-14	-6	-5	-1	0	0	
50S	250W	VER:	-11	-10	-15	-6	-4	-1	2	3	1.00
		HOR:	-26	-20	-20	-8	-5	-2	1	3	
50S	225W	VER:	-14	-11	-18	-10	-5	-5	-3	-3	0.95
		HOR:	-26	-23	-21	-6	-4	-4	-2	-3	
50S	200W	VER:	-9	-3	-14	-17	-9	-5	-4	-3	0.85
		HOR:	-36	-23	-29	-11	-7	-3	-1	-2	
50S	175W	VER:	-8	-10	-20	-12	-10	-7	-4	-1	0.70
		HOR:	-35	-15	-37	-24	-11	-7	-5	-2	
50S	150W	VER:	-6	-6	-16	-13	-6	-5	-3	-3	0.60
		HOR:	-23	-13	-33	-13	-10	-8	-11	-16	
50S	125W	VER:	-3	-3	-18	-14	-10	-7	-3	-5	0.55
		HOR:	-27	-25	-27	-10	-7	-7	-1	-5	
50S	100W	VER:	-2	2	-8	-20	-12	-8	-6	-2	0.50
		HOR:	-30	-24	-32	-12	-12	-10	-8	-20	
50S	75W	VER:	-5	0	-10	-25	-15	-7	0	0	0.40
		HOR:	-22	0	-22	-25	-7	-2	0	5	

CHANNEL			1	2	3	4	5	6	7	8	GAIN
50S	50W	VER:	-2	-8	-28	-22	-11	-2	2	2	0.35
		HOR:	-31	-28	-31	-11	-8	-2	-2	-2	

LINE STAT LOOP B

000	400W	VER:	-7	-5	-6	-3	-1	-1	1	1	1.00
		HOR:	-4	-2	-1	1	0	0	1	0	
000	375W	VER:	-10	-6	-8	-3	-1	-1	1	1	1.00
		HOR:	-6	-4	-4	-1	0	0	2	3	
000	350W	VER:	-17	-11	-11	-4	-2	-1	1	1	1.00
		HOR:	-14	-7	-9	-3	-1	-1	1	1	
000	325W	VER:	-11	-9	-10	-5	-2	-1	1	1	1.00
		HOR:	-10	-9	-8	-5	-3	0	1	0	
000	300W	VER:	-16	-12	-15	-6	-3	-1	0	0	1.00
		HOR:	-14	-10	-6	-2	-1	-1	-2	-2	
000	275W	VER:	-15	-13	-16	-7	-4	-2	1	2	1.00
		HOR:	-27	-18	-13	-2	-1	0	1	2	
000	250W	VER:	-14	-12	-17	-9	-3	-2	1	1	1.00
		HOR:	-22	-18	-15	-5	1	2	3	-6	
000	225W	VER:	-15	-15	-11	-11	-5	-3	-1	1	0.90
		HOR:	-33	-20	-20	-7	-7	-4	1	5	
000	200W	VER:	-12	-14	-25	-14	-7	-5	-4	-4	0.70
		HOR:	-30	-28	-27	-18	-8	-10	-5	-10	
000	175W	VER:	-9	-6	-18	-13	-6	-4	2	6	0.75
		HOR:	-33	-29	-29	-12	-8	-1	5	2	
000	150W	VER:	-4	-4	-16	-15	-9	-6	0	4	0.65
		HOR:	-24	-13	-24	-15	-7	-9	-9	-9	
000	125W	VER:	-3	-5	-20	-10	-9	-3	0	1	0.55
		HOR:	-20	-18	-20	-10	-7	-5	-3	-1	
000	100W	VER:	-6	-8	-24	-20	-11	0	6	15	0.45
		HOR:	-22	-24	-22	-6	-6	-6	2	-17	
000	75W	VER:	-17	-25	-25	-15	-7	-2	10	17	0.40
		HOR:	-75	-30	-12	0	2	-12	-10	-10	
000	50W	VER:	-2	2	-8	-25	-17	-8	-5	-2	0.35
		HOR:	-85	-40	-14	-5	0	2	5	-14	

LINE STAT LOOP B

50N	400W	VER:	-11	-7	-10	-5	-2	-1	0	1	1.00
		HOR:	-6	-3	-4	-2	-1	0	1	1	
50N	375W	VER:	-11	-7	-11	-8	-4	-3	-1	0	1.00
		HOR:	-7	-6	-8	-4	-3	-2	-2	-1	
50N	350W	VER:	-15	-11	-12	-6	-3	-2	-1	-1	1.00
		HOR:	-11	-9	-9	-4	-2	-1	0	0	
50N	325W	VER:	-15	-20	-20	-8	-2	-1	2	1	1.00
		HOR:	-66	-2	-36	-19	-3	-1	2	1	
50N	300W	VER:	-16	-10	-17	-10	-3	0	2	3	1.00
		HOR:	-18	-3	-20	-15	-4	0	3	4	
50N	275W	VER:	-17	-16	-19	-10	-4	-2	-1	2	0.92
		HOR:	-26	-19	-19	-7	-4	-4	-2	-1	

CHANNEL			1	2	3	4	5	6	7	8	GAIN
50N	250W	VER:	-15	-14	-21	-12	-5	-4	-2	-4	0.70
		HOR:	-28	-28	-28	-12	-5	-4	-1	-5	
50N	225W	VER:	-16	-16	-26	-15	-5	-1	3	3	0.60
		HOR:	-26	-8	-25	-16	-8	3	3	1	
50N	200W	VER:	-12	-8	-22	-22	-4	4	8	8	0.50
		HOR:	-32	-20	-34	-30	-8	2	4	6	
50N	175W	VER:	-13	-4	-20	-22	-8	-6	-2	0	0.45
		HOR:	-22	-20	-28	-17	-11	-6	-4	-4	
50N	150W	VER:	-8	2	-11	-20	-14	-8	-8	-11	0.35
		HOR:	-37	-28	-42	-25	-17	-11	-14	-20	
50N	125W	VER:	-10	-13	-30	-26	-13	-6	0	6	0.30
		HOR:	-33	-33	-53	-33	-20	-16	-13	-6	
50N	100W	VER:	-12	-16	-40	-36	-20	-16	-12	-4	0.25
		HOR:	-40	-36	-36	0	-8	-20	-40	-56	
50N	75W	VER:	-4	-4	-20	-20	-16	-12	-12	-16	0.25
		HOR:	-40	-40	-44	-28	-20	-16	-12	-24	
50N	50W	VER:	-5	-5	-25	-20	-10	0	5	20	0.20
		HOR:	-35	-30	-35	-10	-20	-20	-25	-45	

LINE STAT LOOP B

100N	400W	VER:	-18	-12	-14	-5	-2	-1	0	1	1.00
		HOR:	-17	-12	-15	-4	-2	0	1	1	
100N	375W	VER:	-20	-14	-14	-5	-2	-1	0	0	1.00
		HOR:	-12	-9	-9	-2	-1	0	0	1	
100N	350W	VER:	-25	-19	-20	-8	-3	1	3	4	1.00
		HOR:	-34	-16	-14	-3	-1	0	1	2	
100N	325W	VER:	-26	-20	-24	-10	-4	-1	2	5	0.75
		HOR:	-18	-14	-13	-4	-2	-1	0	2	
100N	300W	VER:	-21	-18	-23	-10	-4	-3	-1	-3	0.65
		HOR:	-18	-15	-9	-3	0	0	0	-4	
100N	275W	VER:	-21	-18	-25	-10	-5	0	3	1	0.60
		HOR:	-40	-30	-30	-10	-6	-3	-1	-3	
100N	250W	VER:	-18	-18	-25	-12	-7	-1	-1	0	0.55
		HOR:	-27	-27	-27	-12	-7	-1	-1	-1	
100N	225W	VER:	-20	-17	-27	-12	-10	-7	-5	-2	0.40
		HOR:	-40	-37	-40	-17	-12	-7	-5	0	
100N	200W	VER:	-17	-17	-27	-12	-5	2	5	7	0.40
		HOR:	-32	-30	-32	-12	-5	0	2	2	
100N	175W	VER:	-14	-14	-28	-17	-11	-2	5	5	0.35
		HOR:	-25	-22	-31	-5	-8	-5	-2	-5	
100N	150W	VER:	-10	-13	-26	-16	-10	-6	3	6	0.30
		HOR:	-33	-33	-46	-23	-13	-6	6	3	
100N	125W	VER:	-12	-16	-40	-28	-8	-4	8	8	0.25
		HOR:	-40	-40	-52	-32	-16	0	8	16	
100N	100W	VER:	-8	-8	-28	-20	-12	-4	8	12	0.25
		HOR:	-40	-40	-60	-32	-4	8	24	48	
100N	75W	VER:	-10	-10	-35	-25	-10	0	10	20	0.20
		HOR:	-40	-45	-50	-25	-15	-10	-15	-5	

CHANNEL			1	2	3	4	5	6	7	8	GAIN
100N	50W	VER:	-5	-10	-30	-25	-15	-10	-15	-5	0.20
		HOR:	-30	-30	-35	-15	-10	-5	-5	-5	

LINE STAT LOOP B

150N	400W	VER:	-23	-15	-16	-7	-4	-2	-1	-1	1.00
		HOR:	-9	-7	-9	-3	-1	2	3	4	
150N	375W	VER:	-26	-19	-21	-8	-4	-3	-1	-1	0.94
		HOR:	-18	-10	-6	-2	-1	0	1	2	
150N	350W	VER:	-25	-18	-23	-9	-2	2	3	3	0.85
		HOR:	-17	-11	-10	-1	1	2	3	3	
150N	325W	VER:	-24	-21	-27	-12	-6	-1	1	1	0.65
		HOR:	-15	-15	-16	-7	-4	-1	0	-1	
150N	300W	VER:	-24	-17	-24	-11	-6	-3	-1	0	0.62
		HOR:	-29	-24	-29	-11	-4	-1	0	1	
150N	275W	VER:	-28	-26	-36	-20	-8	-6	-4	2	0.50
		HOR:	-44	-34	-32	-10	-6	-4	-2	6	
150N	250W	VER:	-22	-22	-32	-17	-10	-5	-2	0	0.40
		HOR:	-35	-32	-35	-20	-12	-10	-5	-7	
150N	225W	VER:	-20	-22	-40	-20	-11	-5	0	2	0.35
		HOR:	-22	-22	-28	-8	-2	0	-2	-11	
150N	200W	VER:	-20	-20	-33	-20	-13	-6	-3	-6	0.30
		HOR:	-30	-30	-33	-13	-10	-3	0	-3	
150N	175W	VER:	-16	-16	-30	-16	-10	-3	6	0	0.30
		HOR:	-26	-26	-30	-6	-3	0	0	0	
150N	150W	VER:	-16	-20	-41	-25	-16	-12	-12	-8	0.24
		HOR:	-37	-29	-29	-4	0	8	4	-8	
150N	125W	VER:	-10	-10	-25	-30	-25	-20	-15	-15	0.20
		HOR:	-25	-20	-35	-10	0	5	10	5	
150N	100W	VER:	-10	-10	-30	-25	-15	-10	-5	-5	0.20
		HOR:	-40	-35	-40	-20	-15	-15	-15	-30	
150N	75W	VER:	-11	-5	-29	-17	-11	-5	-5	0	0.17
		HOR:	-29	-23	-35	-11	0	11	17	23	
150N	50W	VER:	-15	-23	-53	-38	-15	0	15	15	0.13
		HOR:	-38	-30	-46	-15	-7	0	0	7	

LINE STAT LOOP B

200N	225W	VER:	-25	-20	-40	-20	-10	-5	0	5	0.20
		HOR:	-40	-30	-30	-5	-5	0	5	5	
200N	200W	VER:	-20	-20	-35	-20	-10	0	5	-5	0.20
		HOR:	-40	-45	-50	-20	-5	-5	10	10	
200N	175W	VER:	-17	-17	-41	-23	-11	-5	-5	0	0.17
		HOR:	-41	-35	-41	-11	0	5	5	0	
200N	150W	VER:	-20	-20	-40	-26	-20	-13	0	-26	0.15
		HOR:	-46	-53	-66	-40	-26	-13	-6	-26	
200N	125W	VER:	-20	-13	-40	-33	-20	-13	-6	-6	0.15
		HOR:	-53	-46	-66	-33	-20	-13	6	20	
200N	100W	VER:	-16	-16	-41	-33	-25	-16	-8	-8	0.12
		HOR:	-41	-41	-58	-33	-16	-8	0	16	

CHANNEL			1	2	3	4	5	6	7	8	GAIN
LINE	STAT		LOOP A								
350S	350W	VER:	-35	-41	-82	-58	-35	-23	-11	-5	0.17
		HOR:	-64	-64	-58	-23	-17	-29	-29	-35	
350S	325W	VER:	-40	-45	-85	-50	-15	5	20	35	0.20
		HOR:	-50	-50	-50	-15	-5	-5	-5	30	
350S	300W	VER:	-35	-40	-70	-45	-20	-5	5	5	0.20
		HOR:	-60	-55	-55	-20	-10	5	-5	-10	
350S	275W	VER:	-32	-40	-72	-44	-16	-12	-4	0	0.25
		HOR:	-40	-40	-44	-12	-8	-4	0	-4	
350S	250W	VER:	-33	-40	-56	-36	-13	-6	-3	3	0.30
		HOR:	-73	-60	-50	-6	-3	-3	-20	-26	
350S	225W	VER:	-31	-37	-62	-37	-15	-6	-3	0	0.32
		HOR:	-81	-65	-53	-12	-9	-3	0	9	
350S	200W	VER:	-37	-37	-50	-25	-10	-10	-7	-7	0.40
		HOR:	-125	-45	-22	-7	-2	5	-10	-10	
350S	175W	VER:	-45	-45	-54	-27	-13	-9	-6	-6	0.44
		HOR:	-113	-27	-4	2	-2	-18	-4	-9	
350S	150W	VER:	-70	-44	-42	-16	-8	-6	-2	-2	0.50
		HOR:	-48	-34	-24	-4	-2	-2	-6	-4	
350S	125W	VER:	-108	-41	-18	-10	-8	-8	-5	-5	0.60
		HOR:	-70	-13	-3	-5	-10	-8	-11	-8	
350S	100W	VER:	-35	-31	-37	-18	-5	-2	1	1	0.70
		HOR:	-20	-14	-11	-1	0	0	2	0	
350S	75W	VER:	-32	-28	-32	-15	-5	-3	-1	-5	0.80
		HOR:	-17	-10	-2	7	2	-5	-13	-25	
350S	50W	VER:	-25	-8	-25	-20	-8	-2	1	1	0.97
		HOR:	-15	-10	-6	1	0	0	0	-2	
350S	25W	VER:	-25	-18	-21	-10	-4	-3	-2	0	1.00
		HOR:	-25	-3	1	1	-1	-1	1	2	
350S	00	VER:	-18	-17	-20	-10	-4	-2	1	2	1.00
		HOR:	-4	-2	3	3	1	-2	-2	-7	
LINE	STAT		LOOP A								
300S	350W	VER:	-30	-40	-80	-50	-15	-25	5	5	0.20
		HOR:	-100	-90	-90	-30	-20	-15	-5	-10	
300S	325W	VER:	-30	-34	-60	-43	-21	-13	-4	-8	0.23
		HOR:	-73	-65	-56	-17	-8	-21	-4	-4	
300S	300W	VER:	-25	-37	-66	-37	-14	-3	3	0	0.27
		HOR:	-111	-96	-81	-22	-11	-3	0	0	
300S	275W	VER:	-26	-33	-56	-33	-16	-6	-3	0	0.30
		HOR:	-90	-76	-76	-36	-23	-20	-6	0	
300S	250W	VER:	-26	-32	-58	-35	-11	-8	-2	-2	0.34
		HOR:	-70	-58	-50	-11	-8	-2	-2	0	
300S	225W	VER:	-30	-32	-50	-27	-15	-7	-5	-12	0.40
		HOR:	-132	-37	-10	-2	5	-5	-2	-7	
300S	200W	VER:	-100	-46	-18	-8	-8	-12	-16	-2	0.50
		HOR:	-84	-22	-4	-4	-4	-6	-12	-8	

CHANNEL			1	2	3	4	5	6	7	8	GAIN
300S	175W	VER:	-105	-48	-20	-6	-3	5	5	1	0.58
		HOR:	-163	-31	0	-5	-15	-17	-24	-15	
300S	150W	VER:	-87	-38	-18	-7	-3	-3	-3	-4	0.65
		HOR:	-89	-23	-13	-1	0	-1	-4	6	
300S	125W	VER:	-85	-37	-16	-5	-2	0	2	1	0.75
		HOR:	-24	-18	-10	2	-2	-14	-17	-32	
300S	100W	VER:	-28	-25	-30	-14	-3	-3	0	1	0.85
		HOR:	-22	-15	-11	-1	-1	-3	-2	0	
300S	75W	VER:	-24	-16	-25	-17	-7	-4	-2	-2	1.00
		HOR:	-12	0	-8	-7	-4	-1	1	7	
300S	50W	VER:	-18	1	-18	-20	-7	-3	-1	0	1.00
		HOR:	-18	1	-11	-7	-1	-1	-1	-2	
300S	25W	VER:	-20	1	-16	-17	-6	-3	-1	0	1.00
		HOR:	-15	1	-10	-12	-6	-7	-11	-9	
300S	00	VER:	-16	1	-12	-12	-1	-2	-3	-5	1.00
		HOR:	-10	1	-6	-4	-1	-1	0	-1	

LINE STAT LOOP A

250S	350W	VER:	-30	-40	-80	-50	-15	-20	-25	5	0.20
		HOR:	-100	-90	-90	-30	-15	-10	-5	-10	
250S	325W	VER:	-32	-36	-56	-48	-12	-16	4	4	0.25
		HOR:	-72	-60	-52	-16	-8	-4	-8	-4	
250S	300W	VER:	-30	-33	-60	-33	-16	-13	-3	3	0.30
		HOR:	-90	-76	-76	-36	-20	-10	-6	-3	
250S	275W	VER:	-20	-25	-30	-15	-7	-5	2	2	0.40
		HOR:	-50	-20	-15	-7	-5	-2	0	2	
250S	250W	VER:	-26	-20	-17	-6	-11	-8	-4	4	0.45
		HOR:	-48	-26	-15	-11	-4	0	-2	2	
250S	225W	VER:	-40	-28	-24	-22	-18	-12	4	2	0.50
		HOR:	-54	-18	-12	-6	-2	-4	-2	0	
250S	200W	VER:	-105	-50	-25	-21	-5	1	1	-1	0.55
		HOR:	-72	-20	-12	-7	-5	-3	-1	-3	
250S	175W	VER:	-100	-45	-20	-6	-3	3	3	1	0.60
		HOR:	-133	-30	-11	-15	-11	-10	-1	-3	
250S	150W	VER:	-32	1	-31	-36	-13	-5	0	4	0.73
		HOR:	-38	-23	-20	-5	-2	-1	0	0	
250S	125W	VER:	-33	-30	-31	-12	-4	-2	-1	-3	0.90
		HOR:	-33	-22	-11	-1	1	1	1	-1	
250S	100W	VER:	-23	-21	-25	-13	-5	-3	0	1	1.00
		HOR:	-20	-15	-12	-4	-3	-3	-1	1	
250S	75W	VER:	-20	-16	-18	-12	-7	-5	-3	-1	1.00
		HOR:	-15	-5	-3	-2	-2	-1	-1	-1	
250S	50W	VER:	-18	1	-15	-16	-6	-3	-1	0	1.00
		HOR:	-11	-1	-6	-3	-1	0	0	0	
250S	25W	VER:	-16	1	-12	-10	-3	-1	-1	-1	1.00
		HOR:	-12	1	-5	-3	-1	-2	-1	-1	
250S	00	VER:	-14	1	-10	-1	0	0	0	0	1.00
		HOR:	-8	1	-2	-3	-1	-2	-5	-8	

CHANNEL			1	2	3	4	5	6	7	8	GAIN
LINE	STAT		LOOP A								
200S	350W	VER:	-30	-30	-60	-45	-25	-15	-5	5	0.20
		HOR:	-50	-5	-45	-45	-25	-10	5	5	
200S	325W	VER:	-28	-20	-48	-40	-16	-8	0	4	0.25
		HOR:	-48	-48	-44	-12	-12	-4	0	0	
200S	300W	VER:	-23	-30	-43	-30	-13	-3	0	3	0.30
		HOR:	-83	-40	-36	-13	-6	3	-6	3	
200S	275W	VER:	-57	-45	-28	-14	-11	5	2	-5	0.35
		HOR:	-100	-25	0	-8	-20	-20	-31	-20	
200S	250W	VER:	-25	-27	-40	-25	-12	-5	-2	-5	0.40
		HOR:	-45	-37	-35	-12	-5	-7	-10	-10	
200S	225W	VER:	-22	-16	-32	-24	-10	0	0	0	0.50
		HOR:	-30	-20	-22	-2	4	-2	-6	-14	
200S	200W	VER:	-88	-45	-21	-5	1	8	8	-5	0.60
		HOR:	-51	-35	-26	-3	0	0	-3	-10	
200S	175W	VER:	-71	-31	-14	-7	-4	-1	-1	-4	0.70
		HOR:	-71	-21	-8	4	7	7	12	4	
200S	150W	VER:	-77	-32	-15	-7	-5	-1	0	0	0.85
		HOR:	-77	-17	-8	-4	-3	-1	1	1	
200S	125W	VER:	-74	-30	-14	-4	1	4	9	6	1.00
		HOR:	-42	-7	-2	-1	-4	-2	1	0	
200S	100W	VER:	-58	-24	-10	-3	-1	2	3	0	1.00
		HOR:	-39	-7	-2	-1	-1	-2	-4	-11	
200S	75W	VER:	-50	-20	-11	-1	4	6	8	3	1.00
		HOR:	-28	-5	-2	-2	-2	-2	-2	-1	
200S	50W	VER:	-32	-14	-7	-1	-1	-1	-1	-1	1.00
		HOR:	-24	-3	0	1	-1	0	2	-1	
200S	25W	VER:	-31	-11	-6	-3	-2	-1	-1	0	1.00
		HOR:	-20	-1	1	2	0	-1	1	0	
200S	00	VER:	-11	-9	-10	-3	-1	-1	0	-1	1.00
		HOR:	-10	-4	-2	1	-1	1	0	0	
200S	50E	VER:	-11	-4	-3	0	0	0	0	0	1.00
		HOR:	-3	0	0	1	0	0	0	0	
200S	100E	VER:	-5	-2	-1	1	0	0	1	1	1.00
		HOR:	0	1	1	1	0	0	-1	-1	
200S	150E	VER:	-1	0	-1	1	0	0	1	1	1.00
		HOR:	1	1	0	1	0	0	0	0	
LINE	STAT		LOOP A								
150S	350W	VER:	-65	-60	-40	-20	-10	-5	-5	-15	0.20
		HOR:	-50	-10	-55	-45	-10	-15	0	5	
150S	325W	VER:	-24	-8	-44	-44	-24	-16	-8	-4	0.25
		HOR:	-40	-4	-44	-36	-16	-8	-8	-8	
150S	300W	VER:	-22	-28	-51	-31	-14	-8	-2	0	0.35
		HOR:	-57	-51	-42	-8	-17	-17	-28	-57	
150S	275W	VER:	-25	-17	-40	-30	-12	-5	0	7	0.40
		HOR:	-55	-20	-37	-25	-10	-5	-5	-5	

CHANNEL			1	2	3	4	5	6	7	8	GAIN
150S	250W	VER:	-56	-30	-17	-10	-13	-10	-17	-17	0.46
		HOR:	-134	-43	-19	4	8	15	17	-2	
150S	225W	VER:	-74	-44	-26	-16	-10	-8	0	0	0.50
		HOR:	-100	-26	-18	-4	-4	-14	-8	-4	
150S	200W	VER:	-30	-30	-41	-21	-15	-18	-18	-18	0.65
		HOR:	-64	-40	-27	-4	1	3	-1	-1	
150S	175W	VER:	-28	-28	-40	-24	-7	-4	2	10	0.70
		HOR:	-71	1	-40	-22	-4	-8	-10	-11	
150S	150W	VER:	-30	1	-20	-28	-14	-4	-2	-2	0.85
		HOR:	-35	1	-14	-17	-7	-2	-2	-3	
150S	125W	VER:	-26	0	-22	-26	-9	-3	0	0	1.00
		HOR:	-22	-13	-10	-2	-2	1	0	-1	
150S	100W	VER:	-22	-2	-20	-22	-11	-6	-4	-3	1.00
		HOR:	-17	-11	-12	-8	-6	-6	-2	-1	
150S	75W	VER:	-18	-14	-17	-7	-3	-2	2	-2	1.00
		HOR:	-22	-4	1	2	1	-1	0	3	
150S	50W	VER:	-14	-11	-14	-7	-1	1	3	5	1.00
		HOR:	-6	-3	-3	0	1	1	2	2	
150S	25W	VER:	-10	-9	-10	-3	-1	-1	0	-1	1.00
		HOR:	-8	-3	-3	1	0	0	1	-1	
150S	00	VER:	-11	-8	-10	-4	-2	-1	0	0	1.00
		HOR:	-8	-3	-6	-3	-2	0	2	3	
150S	50E	VER:	-7	-4	-7	-3	-2	-1	0	0	1.00
		HOR:	-2	1	2	2	0	0	0	-2	
150S	100E	VER:	-4	-1	-3	-1	0	0	1	0	1.00
		HOR:	-1	0	0	1	0	0	0	0	
150S	150E	VER:	-1	0	-2	0	-1	-1	0	0	1.00
		HOR:	-1	0	0	1	0	0	0	0	

LINE STAT LOOP A

100S	350W	VER:	-45	-45	-31	-13	-9	-4	9	4	0.22
		HOR:	-136	-54	-40	-13	-22	-9	4	4	
100S	325W	VER:	-53	-42	-28	-21	-17	-17	-3	-10	0.28
		HOR:	-142	-42	-10	-7	-17	-21	-3	-14	
100S	300W	VER:	-56	-50	-30	-10	-6	-3	0	-3	0.30
		HOR:	-186	-60	-16	-3	-6	3	-10	-6	
100S	275W	VER:	-51	-28	-20	-8	-5	-11	-20	-5	0.35
		HOR:	-62	-22	-5	8	11	17	8	14	
100S	250W	VER:	-64	-35	-22	-11	-8	-6	0	-4	0.45
		HOR:	-100	-22	-4	0	-17	-31	-22	0	
100S	225W	VER:	-68	-32	-13	-6	0	4	4	6	0.50
		HOR:	-68	-20	10	-12	0	8	8	-4	
100S	200W	VER:	-73	-33	-16	-6	-5	-1	-1	-6	0.60
		HOR:	-93	-18	-3	0	-5	-3	15	1	
100S	175W	VER:	-70	-30	-13	-3	-3	1	6	10	0.65
		HOR:	-67	-15	-1	0	-4	-6	3	7	
100S	150W	VER:	-64	-24	-8	-1	1	2	2	-2	0.85
		HOR:	-41	-10	-5	-3	0	0	0	-2	

CHANNEL			1	2	3	4	5	6	7	8	GAIN
100S	125W	VER:	-56	-25	-11	-5	-4	-6	-4	-4	0.95
		HOR:	-22	-5	-2	-1	-4	-6	-11	-5	
100S	100W	VER:	-55	-20	-10	-4	-5	-2	1	2	1.00
		HOR:	-30	-8	-4	3	4	5	11	9	
100S	75W	VER:	-44	-16	-8	-3	-2	-1	4	5	1.00
		HOR:	-20	-3	1	1	0	-2	0	5	
100S	50W	VER:	-30	-10	-5	-2	-2	-1	-1	-1	1.00
		HOR:	-10	2	2	0	-4	-4	-6	0	
100S	25W	VER:	-32	-11	-5	-1	0	0	2	-1	1.00
		HOR:	-6	0	1	4	2	7	11	4	
100S	00	VER:	-20	-7	-3	0	0	0	2	1	1.00
		HOR:	-6	-1	0	2	0	1	2	0	

LINE	STAT		LOOP A								
50S	350W	VER:	-41	-41	-41	-4	-12	-8	-4	-12	0.24
		HOR:	-104	-33	-16	-4	-4	4	16	12	
50S	325W	VER:	-57	-50	-28	-3	3	10	17	0	0.28
		HOR:	-107	-35	-10	0	-3	10	0	-10	
50S	300W	VER:	-62	-46	-25	-3	3	9	12	9	0.32
		HOR:	-75	-18	0	-6	-9	-18	-34	-28	
50S	275W	VER:	-62	-45	-28	-5	-8	0	11	5	0.35
		HOR:	-100	-40	-14	9	8	8	20	-2	
50S	250W	VER:	-66	-35	-22	-4	-2	0	4	4	0.45
		HOR:	-84	-26	-11	-4	0	-2	8	160	
50S	225W	VER:	-78	-40	-18	-2	4	6	12	0	0.50
		HOR:	-100	-20	-6	-6	-8	-4	4	6	
50S	200W	VER:	-72	-32	-13	0	3	8	12	8	0.58
		HOR:	-93	-17	-5	0	-1	3	6	10	
50S	175W	VER:	-70	-30	-16	-10	-9	-7	-3	-1	0.65
		HOR:	-116	-24	-7	-3	-6	-4	-1	0	
50S	150W	VER:	-86	-32	-13	-3	0	1	2	1	0.80
		HOR:	-67	-12	-1	1	-2	-2	5	1	
50S	125W	VER:	-61	-22	-11	-4	-2	-2	0	0	0.90
		HOR:	-37	-8	-2	0	-1	-1	1	-4	
50S	100W	VER:	-54	-20	-10	-6	-2	-2	2	1	1.00
		HOR:	-33	-5	0	2	0	0	0	0	
50S	75W	VER:	-45	-17	-8	-2	-1	0	2	6	1.00
		HOR:	-20	-5	-2	3	5	7	11	-2	
50S	50W	VER:	-39	-14	-7	-2	-2	-1	1	1	1.00
		HOR:	-10	2	2	1	-2	-3	-2	0	
50S	25W	VER:	-32	-10	-4	-2	-1	-1	0	-1	1.00
		HOR:	-7	3	3	3	-2	-2	-5	-2	
50S	00W	VER:	-22	-9	-4	1	0	1	2	1	1.00
		HOR:	-2	2	1	2	0	2	4	0	

LINE	STAT		LOOP A								
L00	350W	VER:	-43	-43	-34	-13	-13	0	0	0	0.23
		HOR:	-117	-43	-17	0	-8	-4	-4	0	

CHANNEL			1	2	3	4	5	6	7	8	GAIN
L00	350W	VER:	-16	-20	-48	-28	-8	-4	0	0	0.25
		HOR:	-100	-40	-36	-8	-8	-8	0	0	
L00	325W	VER:	-48	-40	-32	-20	-12	-12	-4	4	0.25
		HOR:	-140	-60	-28	0	4	16	28	16	
L00	300W	VER:	-53	-33	-23	-10	-13	-13	-6	-6	0.30
		HOR:	-133	-46	-16	16	20	30	53	70	
L00	275W	VER:	-71	-48	-28	-2	-2	5	5	-2	0.35
		HOR:	-85	-31	-11	0	-2	0	0	-5	
L00	250W	VER:	-80	-55	-45	-12	10	30	47	12	0.40
		HOR:	-90	-30	-15	-12	-10	-5	10	-22	
L00	225W	VER:	-62	-35	-20	-6	-4	-2	2	0	0.45
		HOR:	-77	-22	-6	2	2	11	11	-2	
L00	200W	VER:	-81	-43	-21	-3	3	14	18	3	0.55
		HOR:	-72	-18	-7	-1	-3	0	9	7	
L00	175W	VER:	-86	-38	-16	-6	-3	-3	-3	-8	0.60
		HOR:	-63	-15	-3	0	-1	-3	-5	-3	
L00	150W	VER:	-28	-27	-30	-12	-4	-2	2	1	0.70
		HOR:	-60	-8	2	3	-1	-10	-7	-10	
L00	125W	VER:	-35	-29	-29	-11	-3	-2	-1	-1	0.85
		HOR:	-23	-15	-10	-1	-1	-1	-1	-2	
L00	100W	VER:	-27	-22	-26	-10	-3	-2	0	3	1.00
		HOR:	-20	-10	-5	1	-2	-3	-2	0	
L00	75W	VER:	-57	-20	-9	-3	-2	-1	1	0	1.00
		HOR:	-35	-4	0	1	0	-2	-2	1	
L00	50W	VER:	-50	-18	-8	-3	-1	-1	2	1	1.00
		HOR:	-14	-5	-2	3	3	4	3	4	
L00	25W	VER:	-38	-12	-7	-2	-2	0	-1	-4	1.00
		HOR:	-10	1	0	0	-2	-2	-3	-5	
L00	00W	VER:	-30	-10	-6	-3	-1	-1	1	1	1.00
		HOR:	-12	-6	-5	-2	-1	1	2	0	

LINE STAT LOOP A

50N	350W	VER:	-25	-10	-45	-55	-30	-15	-15	-10	0.20
		HOR:	-65	-60	-75	-35	-10	5	20	40	
50N	325W	VER:	-28	-32	-68	-48	-8	12	36	64	0.25
		HOR:	-40	-48	-48	-24	8	36	60	80	
50N	300W	VER:	-20	-23	-40	-13	-13	-13	-20	-40	0.30
		HOR:	-70	-56	-53	-13	-6	-6	-10	-23	
50N	275W	VER:	-25	-28	-50	-28	-15	-12	-6	-6	0.32
		HOR:	-43	-40	-37	-12	-6	-6	-3	-6	
50N	250W	VER:	-27	2	-30	-42	-20	-10	-5	-5	0.40
		HOR:	-75	-50	-42	-10	-7	-2	-2	7	
50N	225W	VER:	-22	-22	-36	-20	-11	-6	-4	-2	0.44
		HOR:	-47	-36	-34	-13	-6	2	2	9	
50N	200W	VER:	-26	-26	-32	-12	-8	-6	-8	-16	0.50
		HOR:	-40	-28	-20	-4	-2	-4	-4	-16	
50N	175W	VER:	-33	-32	-39	-18	-7	-5	-1	-1	0.53
		HOR:	-66	-22	-13	-3	-1	0	5	11	

CHANNEL			1	2	3	4	5	6	7	8	GAIN
50N	150W	VER:	-38	-34	-37	-13	-4	-2	0	1	0.67
		HOR:	-44	-29	-22	-4	-1	1	7	5	
50N	125W	VER:	-37	1	-32	-32	-10	-5	-2	-1	0.75
		HOR:	-26	-20	-12	-1	1	1	2	0	
50N	100W	VER:	-38	1	-14	-30	-17	-6	-3	-2	0.90
		HOR:	-31	1	-11	-7	-4	-2	0	-1	
50N	75W	VER:	-32	1	-24	-25	-8	-3	-1	0	1.00
		HOR:	-14	1	-9	-4	0	0	0	-1	
50N	50W	VER:	-32	1	-17	-20	-10	-4	-1	-1	1.00
		HOR:	-17	1	-9	-5	-3	-3	-3	-4	
50N	25W	VER:	-27	-20	-20	-9	-4	-3	-1	-2	1.00
		HOR:	-6	1	-2	2	2	-1	-3	-5	
50N	00W	VER:	-20	1	-14	-13	-3	-1	1	1	1.00
		HOR:	-7	-3	-3	1	0	1	1	2	

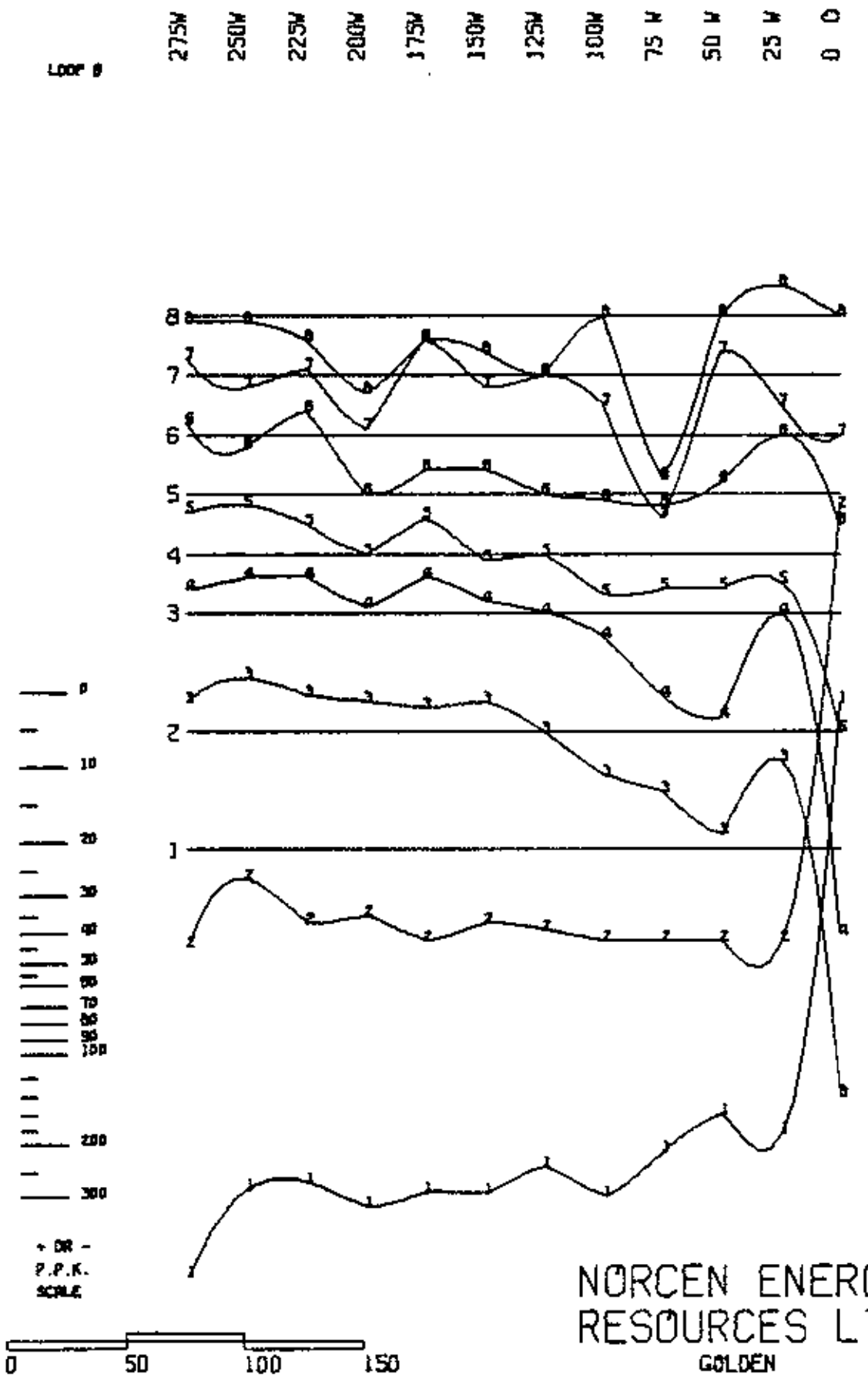
LINE STAT LOOP A

100N	350W	VER:	-25	-30	-55	-35	-15	-10	-5	-15	0.20
		HOR:	-55	-50	-55	-20	-5	0	15	10	
100N	325W	VER:	-24	-32	-56	-32	-16	-4	4	12	0.25
		HOR:	-60	-48	-48	-12	-4	4	4	16	
100N	300W	VER:	-25	-29	-51	-25	-14	-7	-3	-3	0.27
		HOR:	-51	-44	-44	-14	-11	-7	-7	-7	
100N	275W	VER:	-33	-20	-53	-53	-23	-3	13	30	0.30
		HOR:	-46	-40	-30	-6	-6	-3	0	-3	
100N	250W	VER:	-48	-37	-37	-17	-5	-2	0	0	0.35
		HOR:	-71	-28	-11	-2	0	-2	0	2	
100N	225W	VER:	-85	-42	-25	-10	-5	-5	-5	2	0.40
		HOR:	-150	-32	-10	2	-7	-7	0	0	
100N	200W	VER:	-31	-6	-35	-35	-15	-4	-2	-2	0.45
		HOR:	-40	-15	-26	-13	-4	-4	-4	-4	
100N	175W	VER:	-34	2	-32	-40	-18	-10	-4	2	0.50
		HOR:	-36	2	-24	-16	0	0	-4	-10	
100N	150W	VER:	-36	1	-32	-38	-14	-7	-1	0	0.55
		HOR:	-38	1	-12	-20	-10	-3	-1	-1	
100N	125W	VER:	-40	1	-35	-38	-11	-3	0	1	0.60
		HOR:	-33	1	-20	-18	-5	0	1	-1	
100N	100W	VER:	-34	-4	-30	-29	-9	-4	-1	0	0.75
		HOR:	-24	-16	-9	1	1	1	1	0	
100N	75W	VER:	-38	-25	-29	-13	-4	-2	1	-1	0.88
		HOR:	-22	-12	-7	-4	-1	1	1	0	
100N	50W	VER:	-40	-28	-28	-12	-4	-1	1	4	1.00
		HOR:	-24	-10	-8	-1	-2	-1	-1	1	
100N	25W	VER:	-32	-20	-20	-7	-3	-2	-1	-2	1.00
		HOR:	-16	-5	-5	0	0	0	0	0	
100N	00W	VER:	-31	-3	-23	-20	-7	-5	-4	-4	1.00
		HOR:	-11	1	-4	1	1	0	-1	-2	

CHANNEL			1	2	3	4	5	6	7	8	GAIN
200N	125W	VER:	-106	-42	-17	-8	-4	-2	-2	-2	0.45
		HOR:	-80	-15	-2	-4	-2	-4	15	-2	
200N	100W	VER:	-106	-40	-18	-2	-2	2	10	6	0.50
		HOR:	-54	-8	-6	6	-2	4	10	-4	
200N	75W	VER:	-109	-38	-15	-3	0	3	11	3	0.60
		HOR:	-33	-10	0	0	0	3	16	0	
200N	50W	VER:	-109	-38	-15	-4	-3	-1	-1	-6	0.65
		HOR:	-38	-7	0	3	1	3	4	0	
200N	25W	VER:	-120	-36	-10	-5	-5	-8	0	2	0.75
		HOR:	-33	-2	2	2	-4	-6	-5	0	
200N	000	VER:	-155	-55	-16	-1	1	2	8	4	0.90
		HOR:	-111	-4	-4	0	0	2	2	0	

LINE STAT LOOP A

250N	350W	VER:	-86	-66	-60	-33	-33	-26	0	-13	0.15
		HOR:	-173	-73	-20	-20	0	-20	-6	-6	
250N	325W	VER:	-126	-86	-53	-20	6	6	0	26	0.15
		HOR:	-146	-53	0	13	-26	-13	-6	46	
250N	300W	VER:	-90	-50	-35	-5	0	5	5	15	0.20
		HOR:	-135	-40	-15	5	-45	0	10	25	
250N	275W	VER:	-85	-50	-35	-20	-5	-10	-5	-15	0.20
		HOR:	-85	-45	-5	0	25	-20	-5	-40	
250N	250W	VER:	-120	-75	-45	0	5	10	65	20	0.20
		HOR:	-100	-30	-10	10	-10	15	-15	30	
250N	225W	VER:	-120	-68	-36	-4	-12	8	20	20	0.25
		HOR:	-120	-40	-8	4	-4	-8	-16	24	
250N	200W	VER:	-116	-48	-24	-12	-28	-36	-28	-24	0.25
		HOR:	-104	-20	-16	0	-16	-28	-28	-44	
250N	175W	VER:	-140	-60	-30	-10	-3	3	10	-3	0.30
		HOR:	-66	-10	-6	10	-13	13	20	-23	
250N	150W	VER:	-133	-63	-30	-6	3	10	10	16	0.30
		HOR:	-56	-3	10	6	0	-3	-6	6	
250N	125W	VER:	-125	-57	-28	-17	-11	-11	-11	-20	0.35
		HOR:	-68	-14	-11	0	-11	-28	-14	-25	
250N	100W	VER:	-125	-50	-22	-7	-2	-2	2	-2	0.40
		HOR:	-40	-10	-10	7	-5	2	27	12	
250N	75W	VER:	-124	-44	-17	-11	-6	-4	0	-4	0.45
		HOR:	-44	-13	4	6	2	0	2	-22	
250N	50W	VER:	-110	-40	-14	-8	-6	-4	-4	-4	0.50
		HOR:	-40	-6	2	0	-2	-6	4	-12	
250N	25W	VER:	-41	-36	-36	-12	-7	-1	0	0	0.55
		HOR:	-16	-9	12	16	14	38	54	96	
250N	00	VER:	-121	-36	-13	-4	-3	-3	0	-1	0.65
		HOR:	-15	-6	-3	0	-1	-3	0	1	



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LINE 400S B

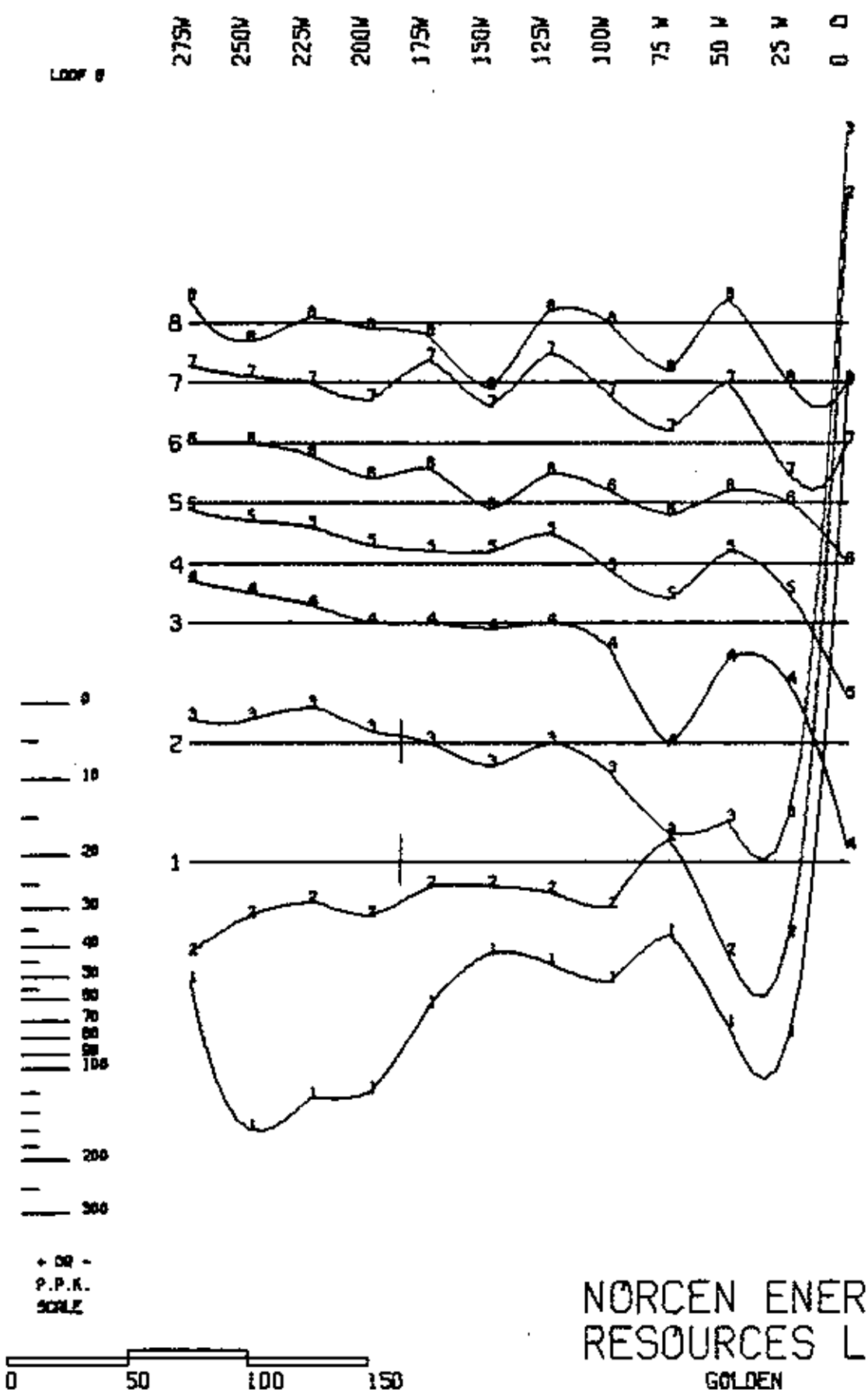
N.T.S. 82 K/15 DATE 24 AUGUST 1979

VECTOR PULSE ELECTROMAGNETOMETER

HORIZONTAL COMPONENT FIG: 3

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



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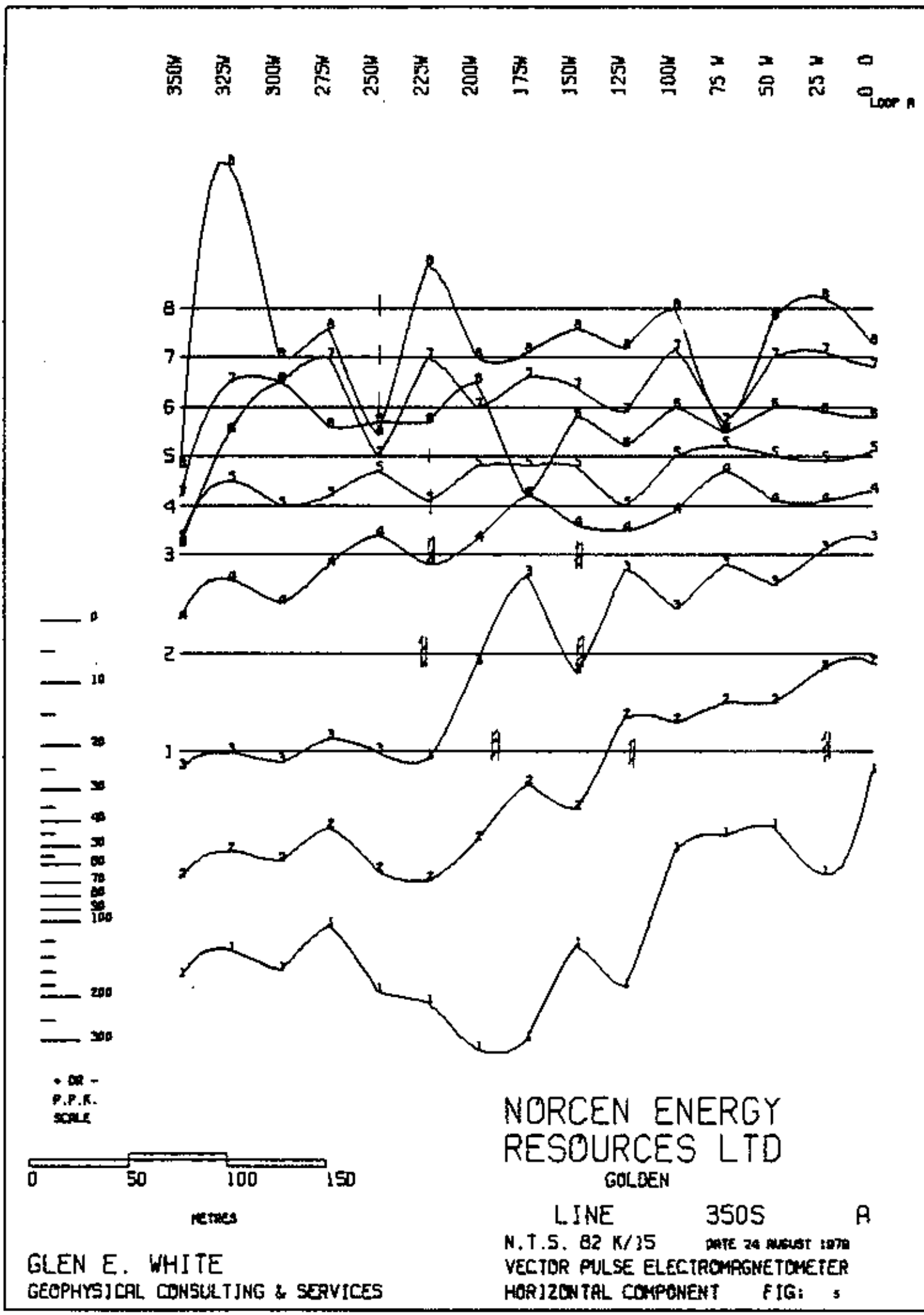
VECTOR PULSE ELECTROMAGNETOMETER

VERTICAL COMPONENT FIG: 4

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



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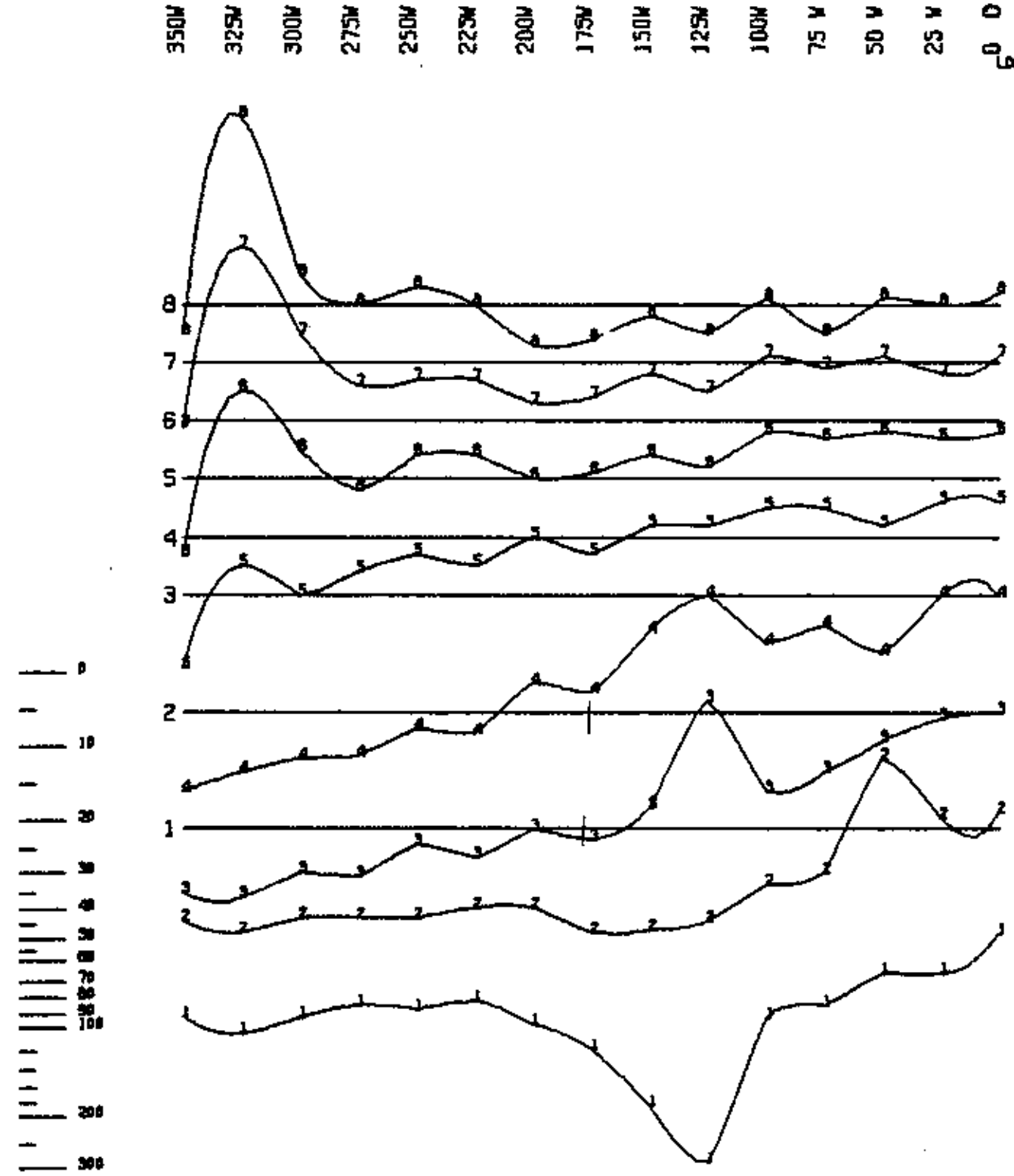
VECTOR PULSE ELECTROMAGNETOMETER

HORIZONTAL COMPONENT FIG: 5

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



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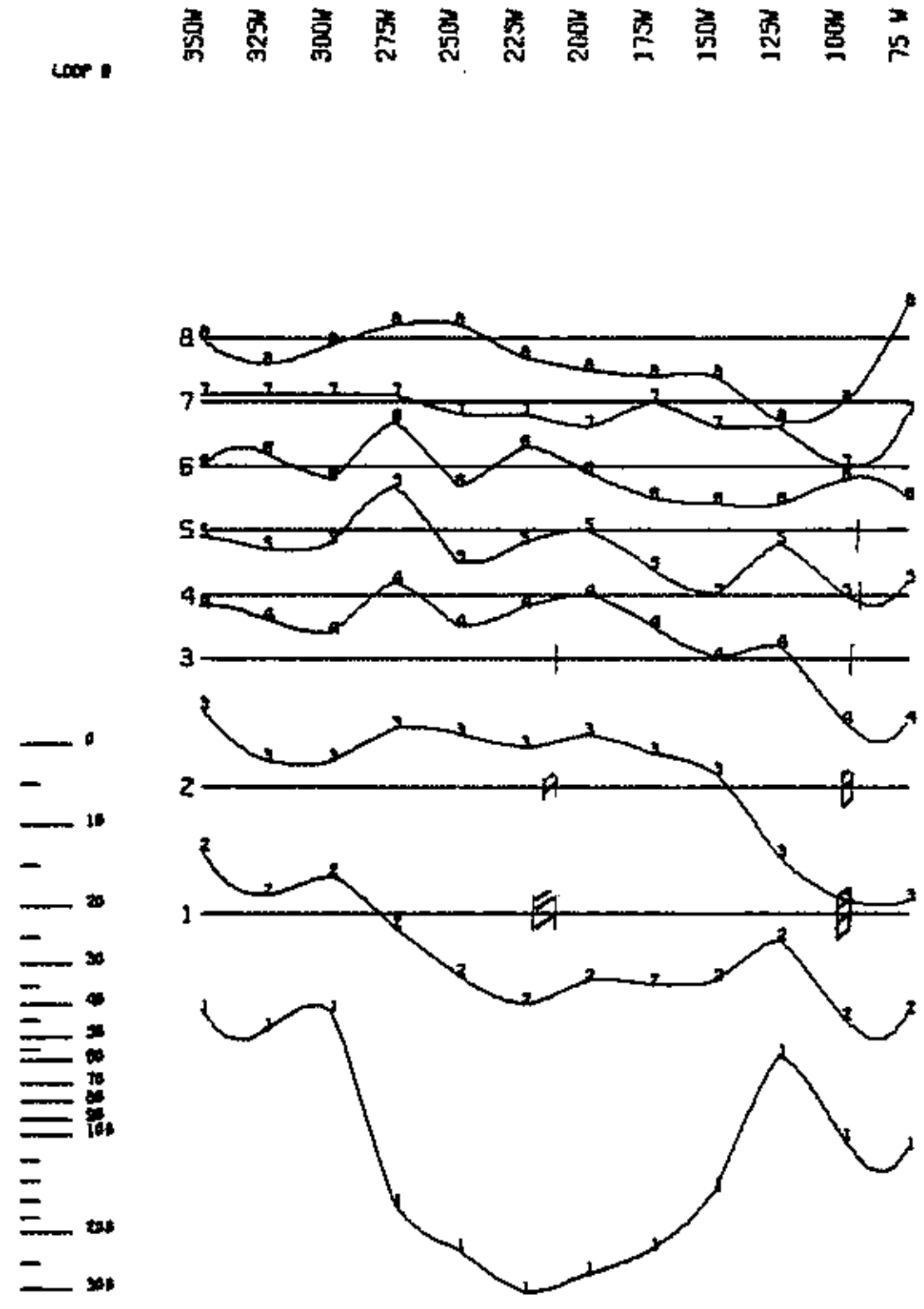
VECTOR PULSE ELECTROMAGNETOMETER

VERTICAL COMPONENT FIG: 6

GLEN E. WHITE
GEOPHYSICAL CONSULTING & SERVICES



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LINE 350S 8

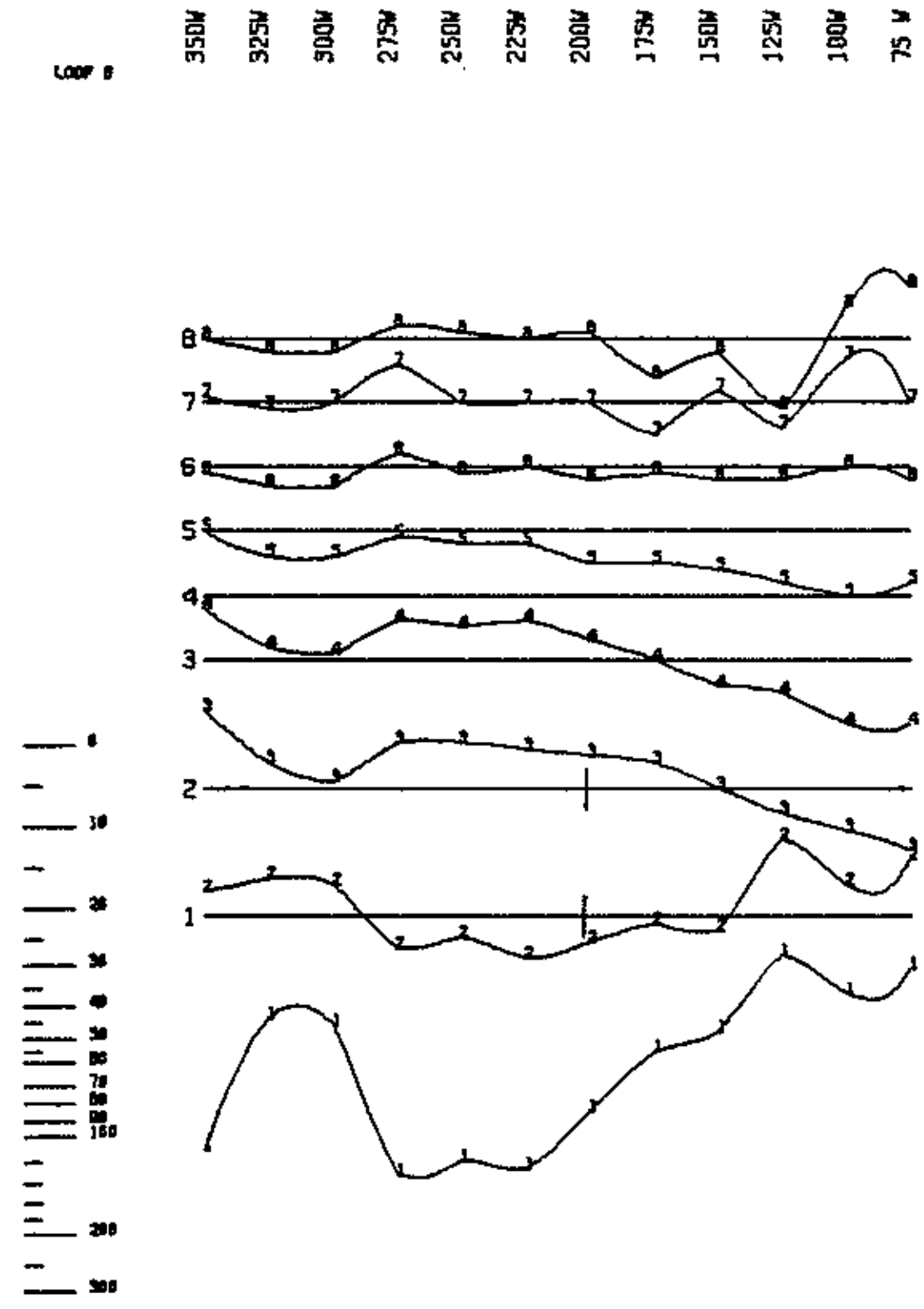
N.T.S. 82 K/1S DATE 24 AUGUST 1979

VECTOR PULSE ELECTROMAGNETOMETER

HORIZONTAL COMPONENT FIG: 7

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

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LINE 350S 8

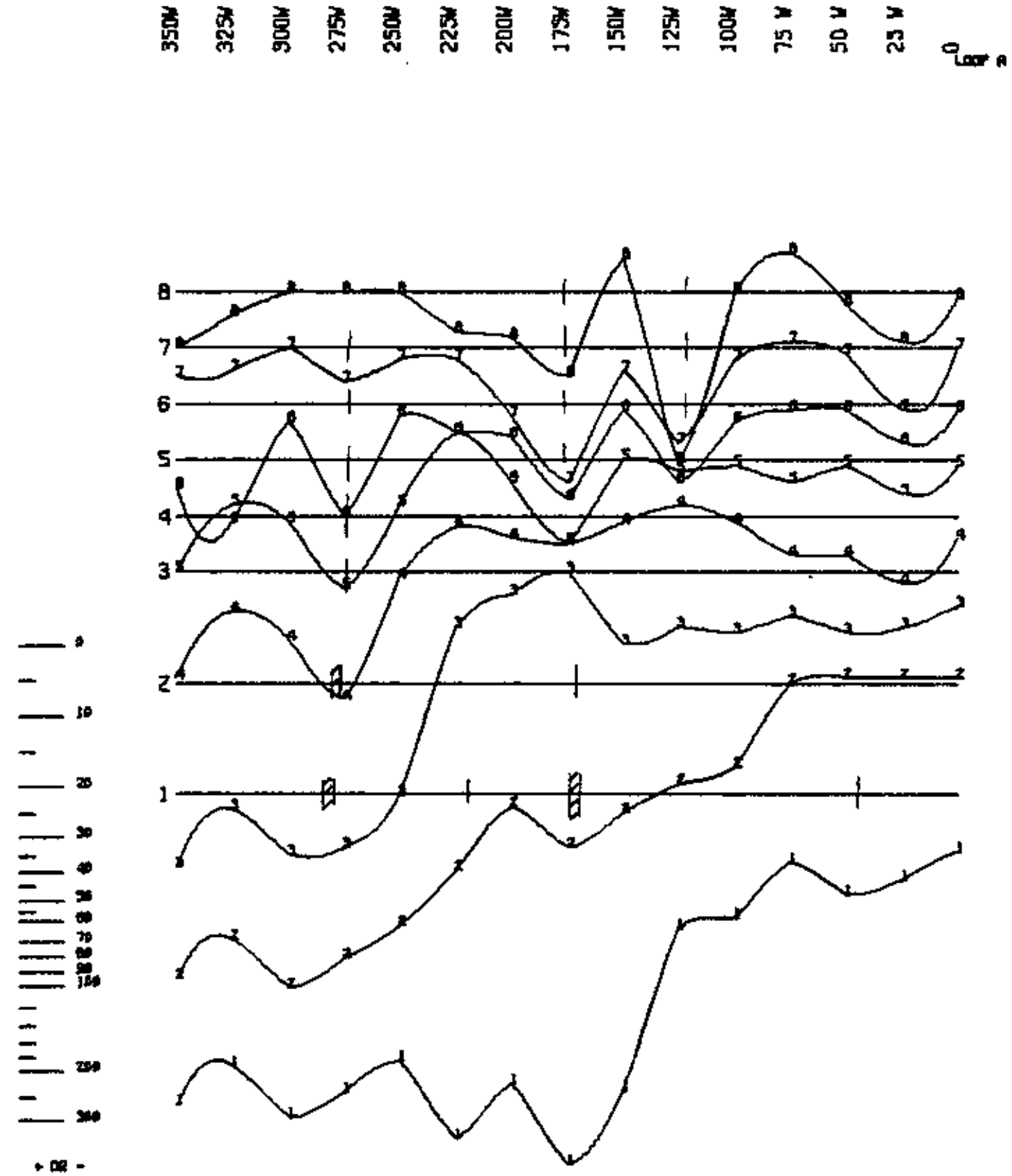
N.T.S. 82 K/1S DATE 24 AUGUST 1979

VECTOR PULSE ELECTROMAGNETOMETER

VERTICAL COMPONENT FIG: 8

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



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LINE 300S A

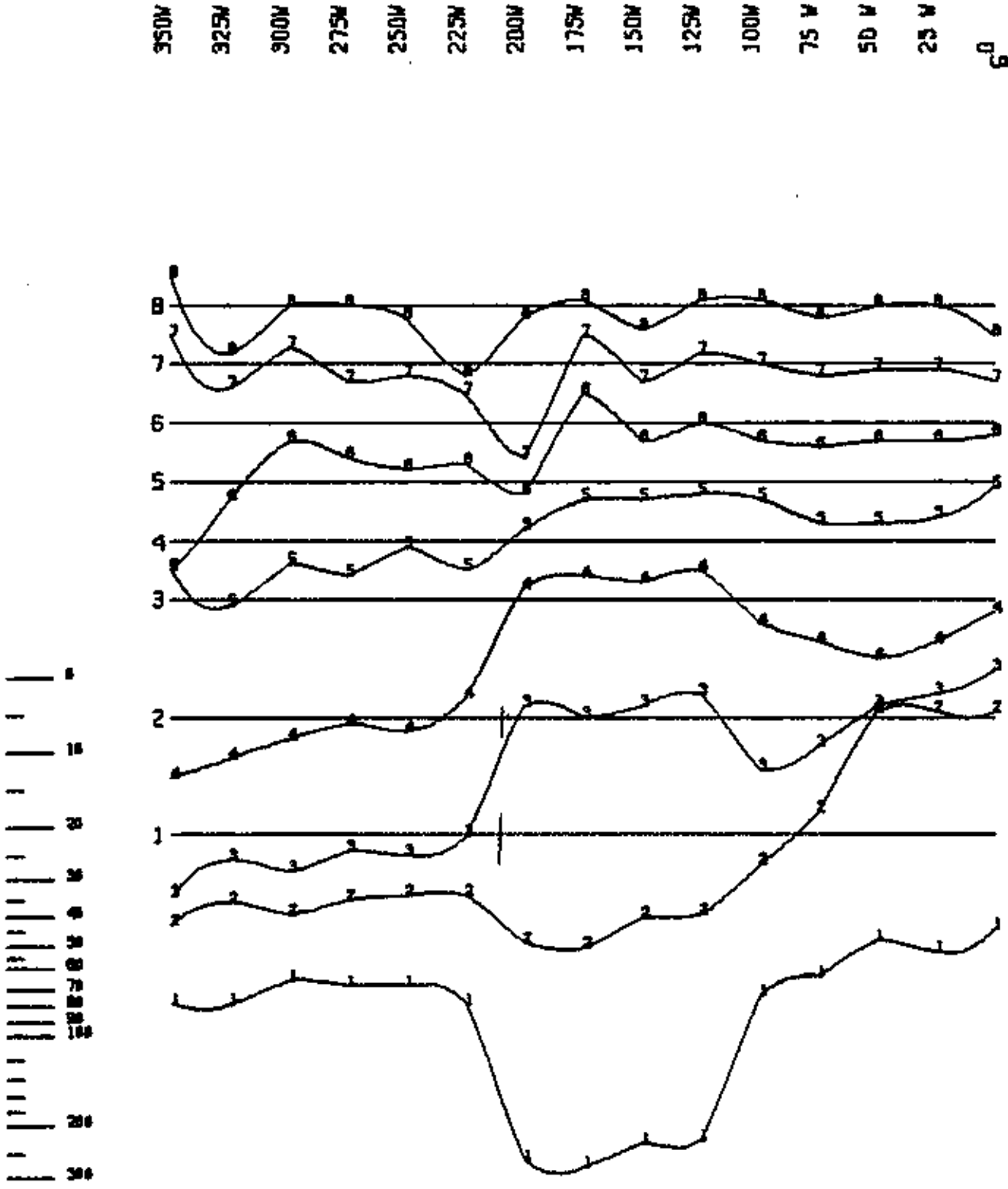
N.T.S. 82 K/15 DATE 24 AUGUST 1978

VECTOR PULSE ELECTROMAGNETOMETER

HORIZONTAL COMPONENT FIG: 9

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



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LINE 300S A

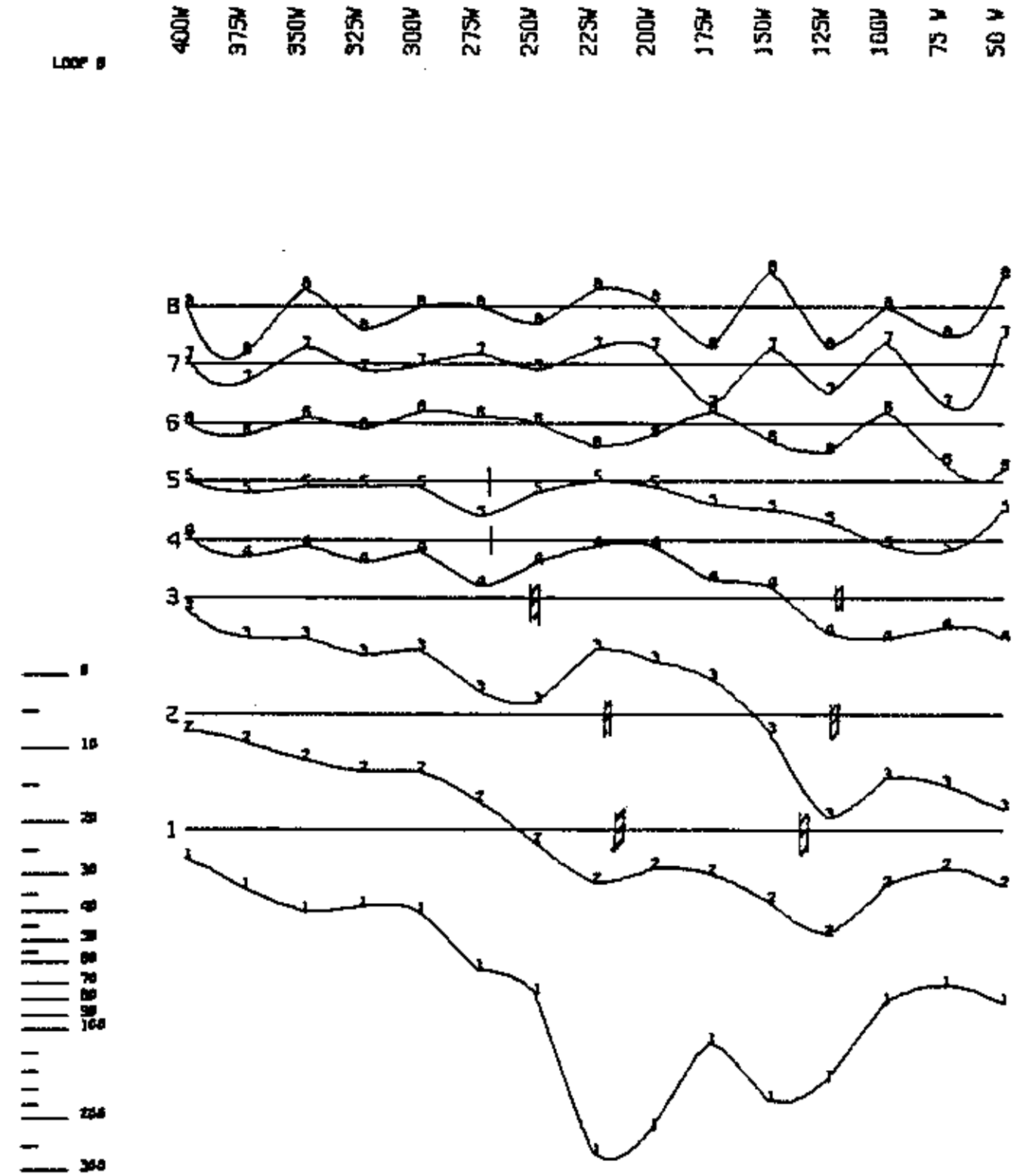
N.T.S. 82 K/15 DATE 24 AUGUST 1978

VECTOR PULSE ELECTROMAGNETOMETER

VERTICAL COMPONENT FIG: 10

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



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LINE 300S B

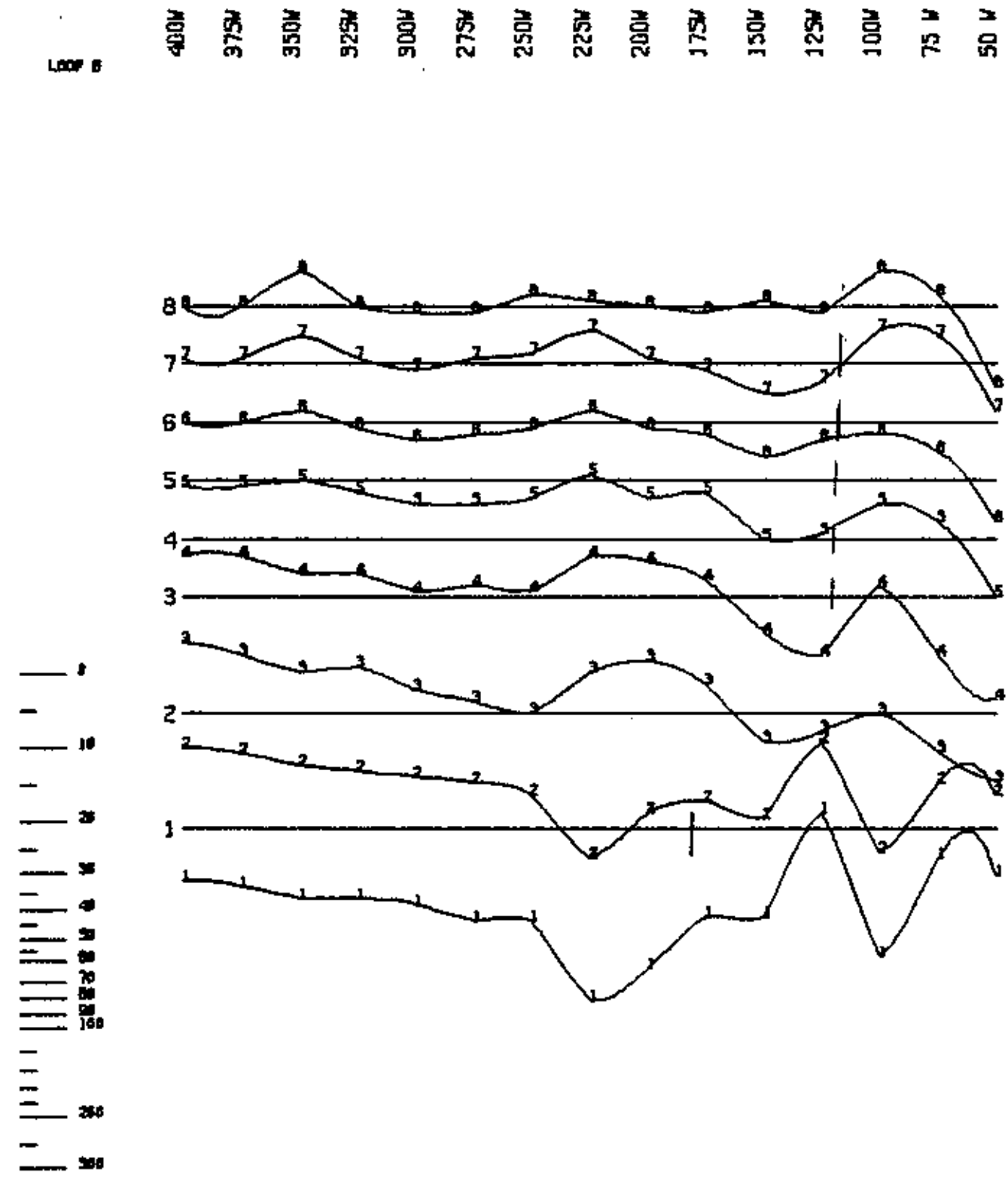
N.T.S. 82 M/15 DATE 24 AUGUST 1979

VECTOR PULSE ELECTROMAGNETOMETER

HORIZONTAL COMPONENT FIG: 11

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



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LINE 300S B

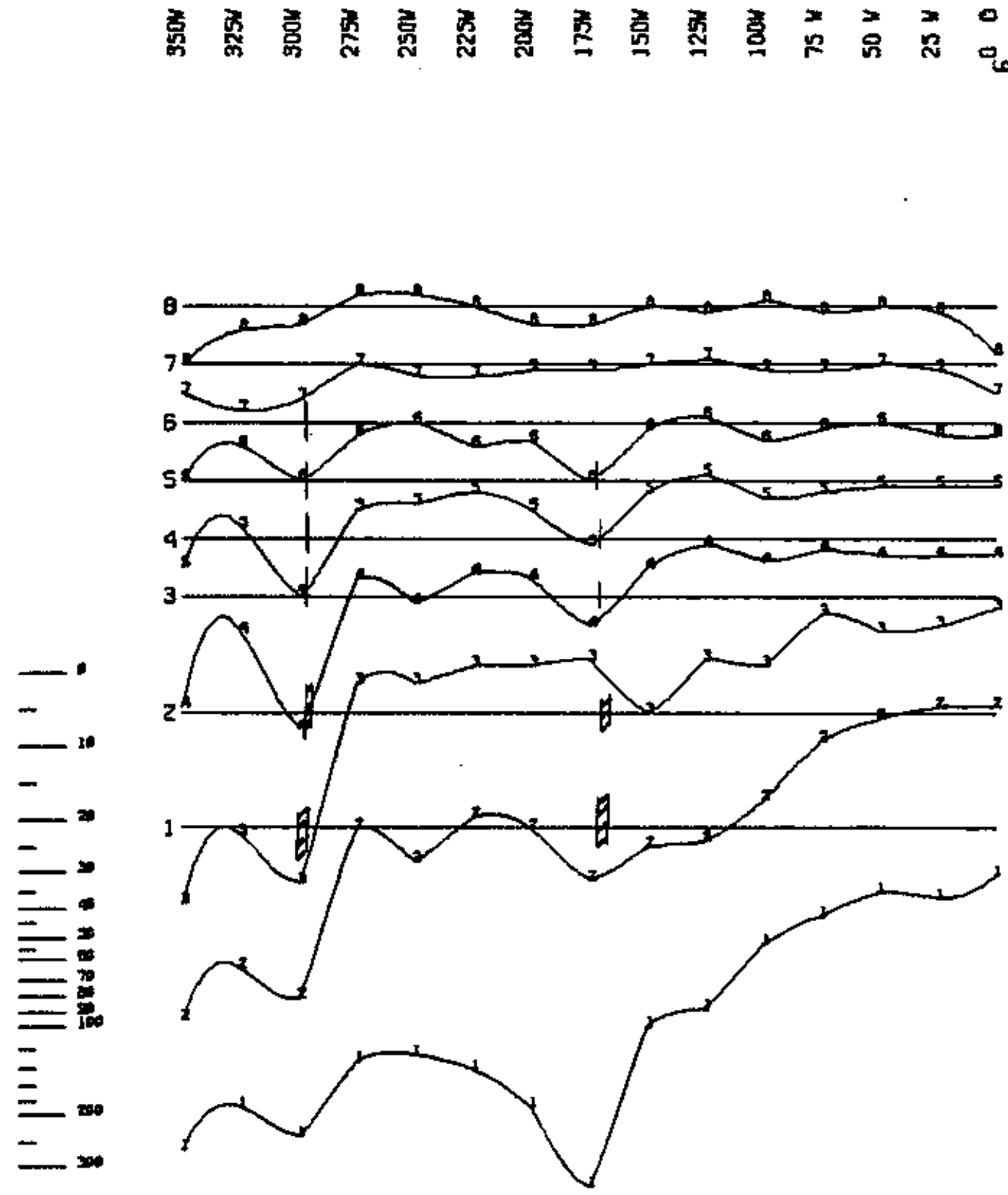
N.T.S. 82 K/15 DATE 24 AUGUST 1979

VECTOR PULSE ELECTROMAGNETOMETER

VERTICAL COMPONENT FIG: 12

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

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LINE 250S A

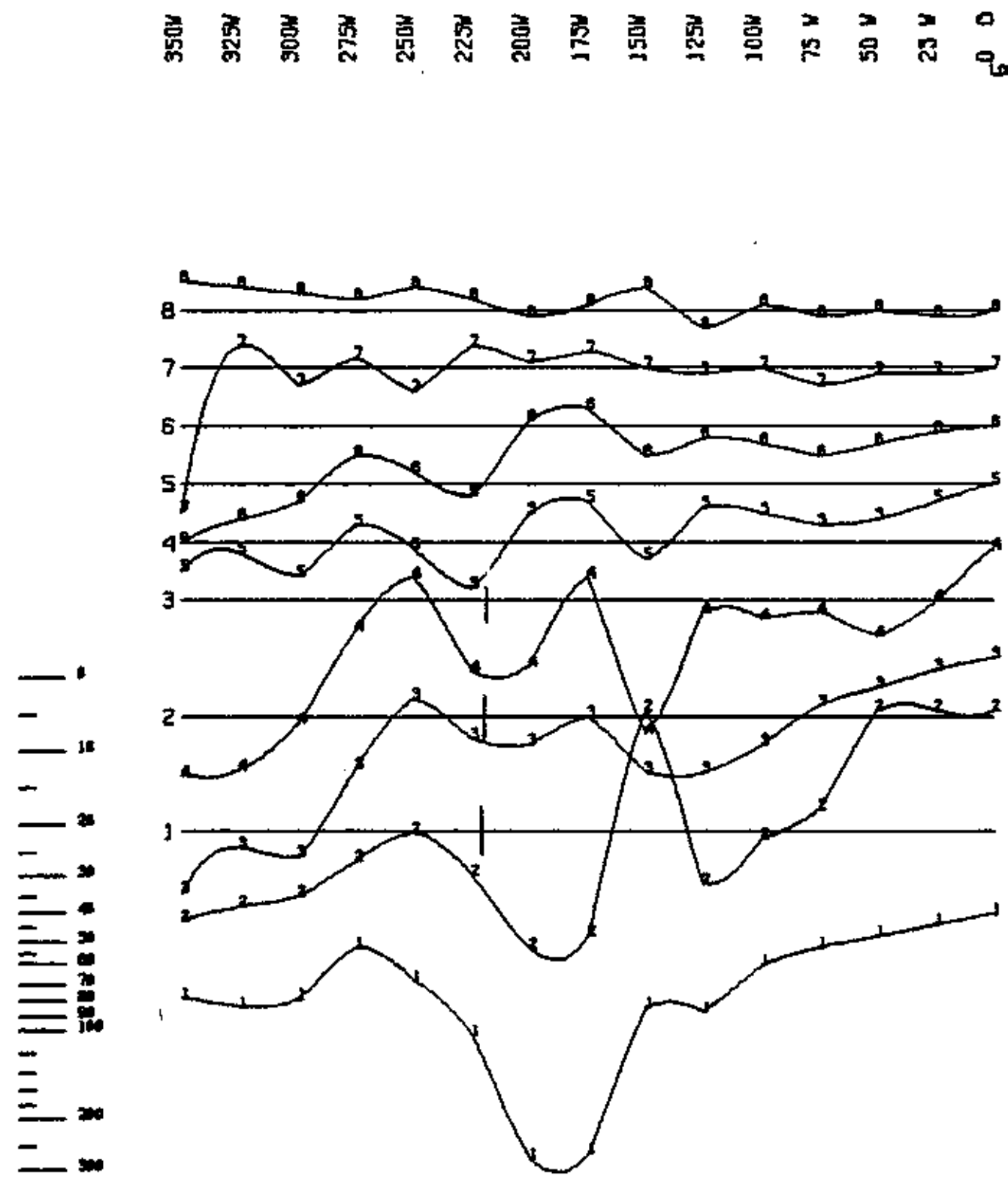
N.T.S. 82 K/15 DATE 24 AUGUST 1979

VECTOR PULSE ELECTROMAGNETOMETER

HORIZONTAL COMPONENT FIG: 13

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

GOLDEN

LINE 250S A

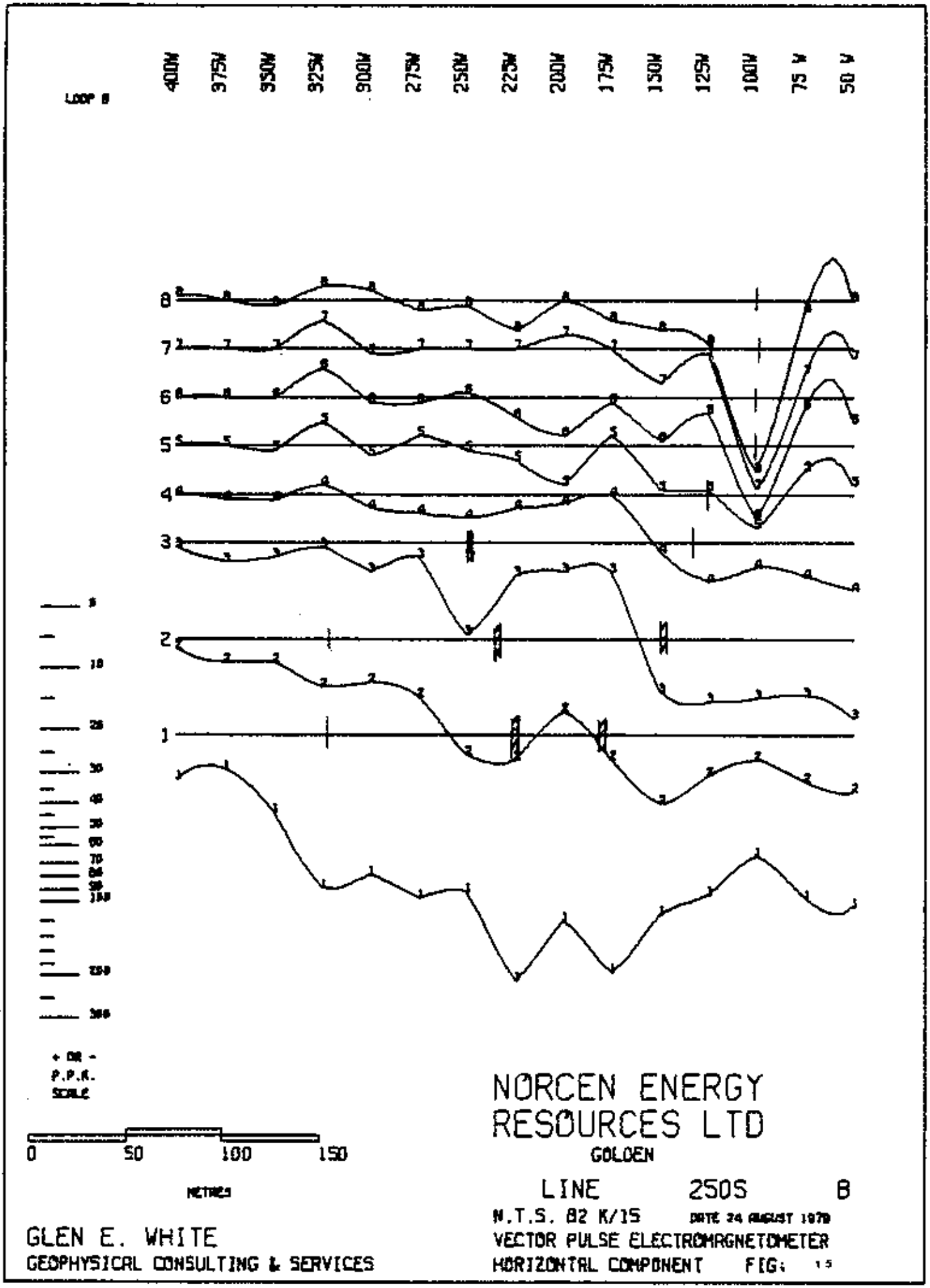
N.T.S. 82 K/15 DATE 24 AUGUST 1970

VECTOR PULSE ELECTROMAGNETOMETER

VERTICAL COMPONENT FIG: 14

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

GOLDEN

LINE 250S B

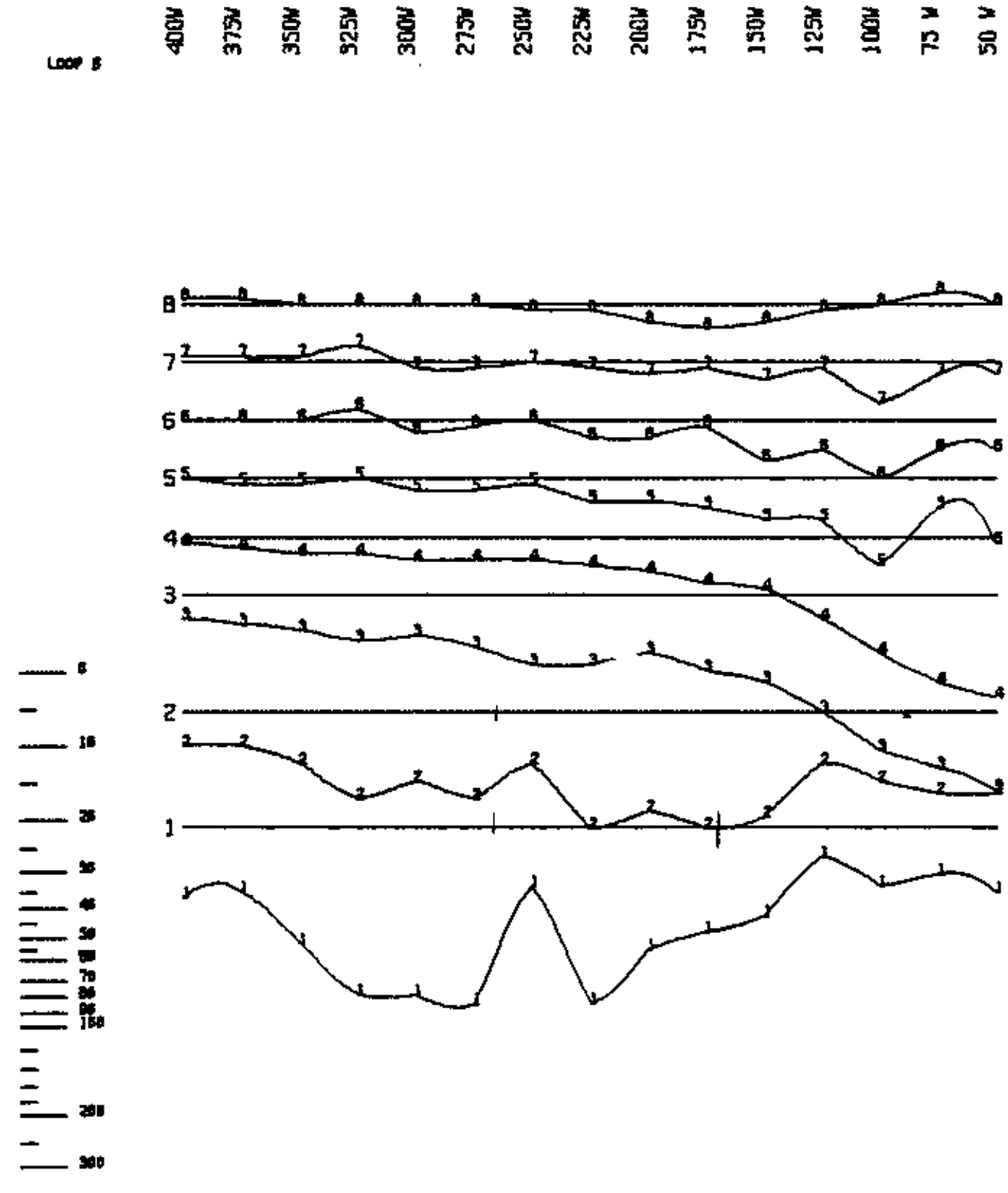
N.T.S. 82 K/15 DATE 24 AUGUST 1979

VECTOR PULSE ELECTROMAGNETOMETER

HORIZONTAL COMPONENT FIG: 15

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

GOLDEN

LINE 250S B

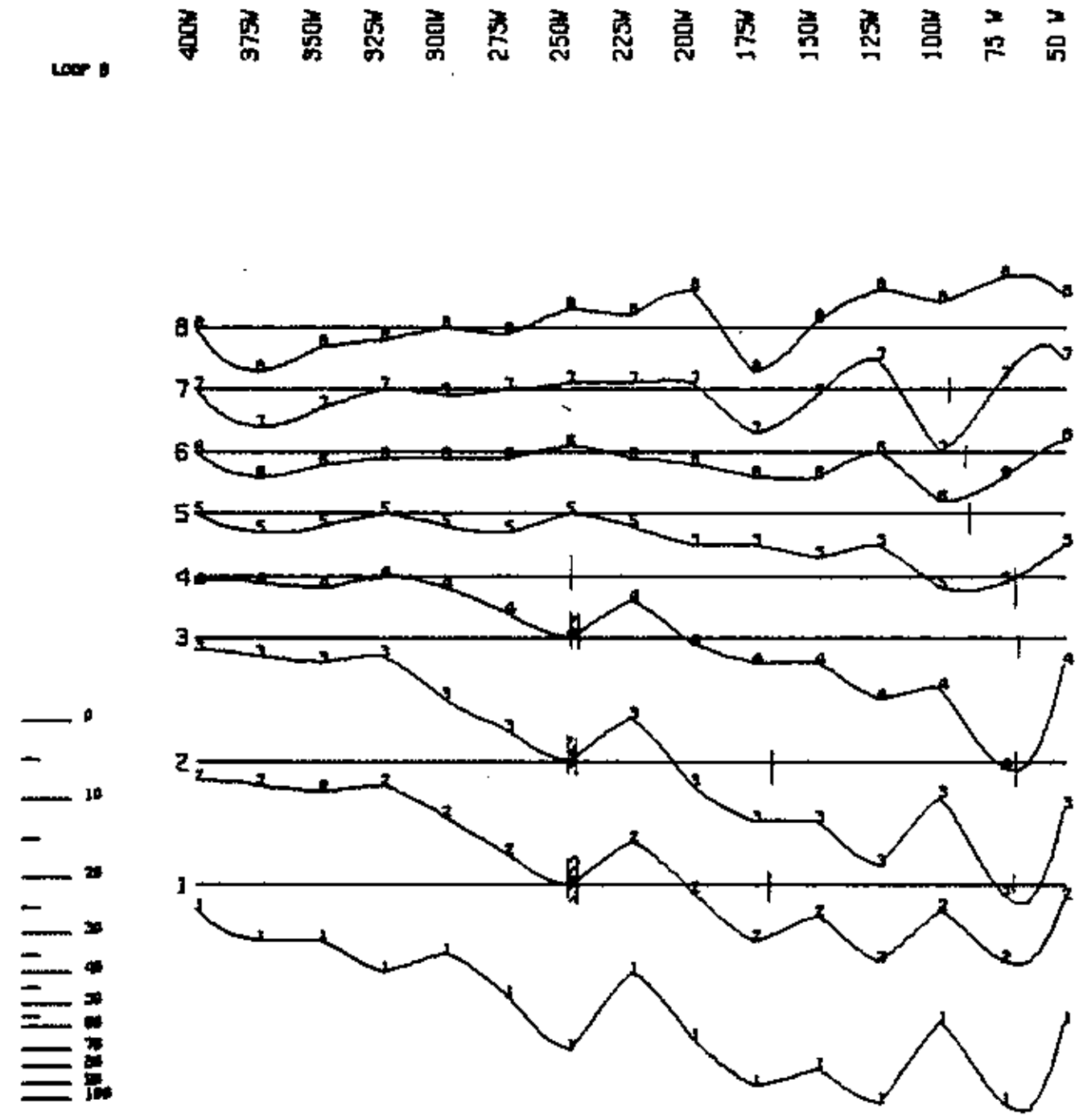
N.T.S. 82 K/15 DATE 24 AUGUST 1979

VECTOR PULSE ELECTROMAGNETOMETER

VERTICAL COMPONENT FIG: 16

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

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LINE 200S 8

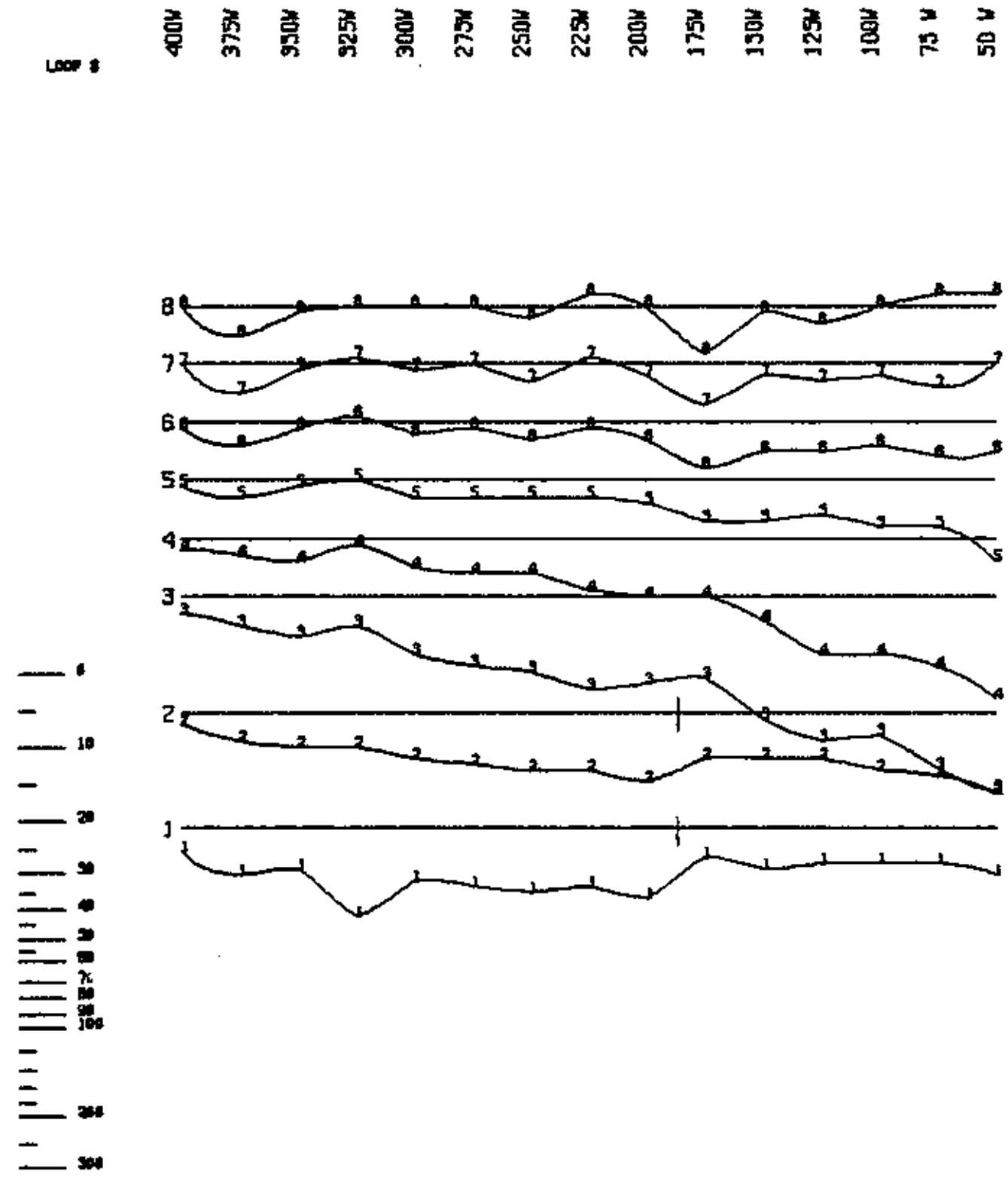
N.T.S. 82 K/15 DATE 24 AUGUST 1979

VECTOR PULSE ELECTROMAGNETOMETER

HORIZONTAL COMPONENT FIG: 10

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

GOLDEN

LINE 200S B

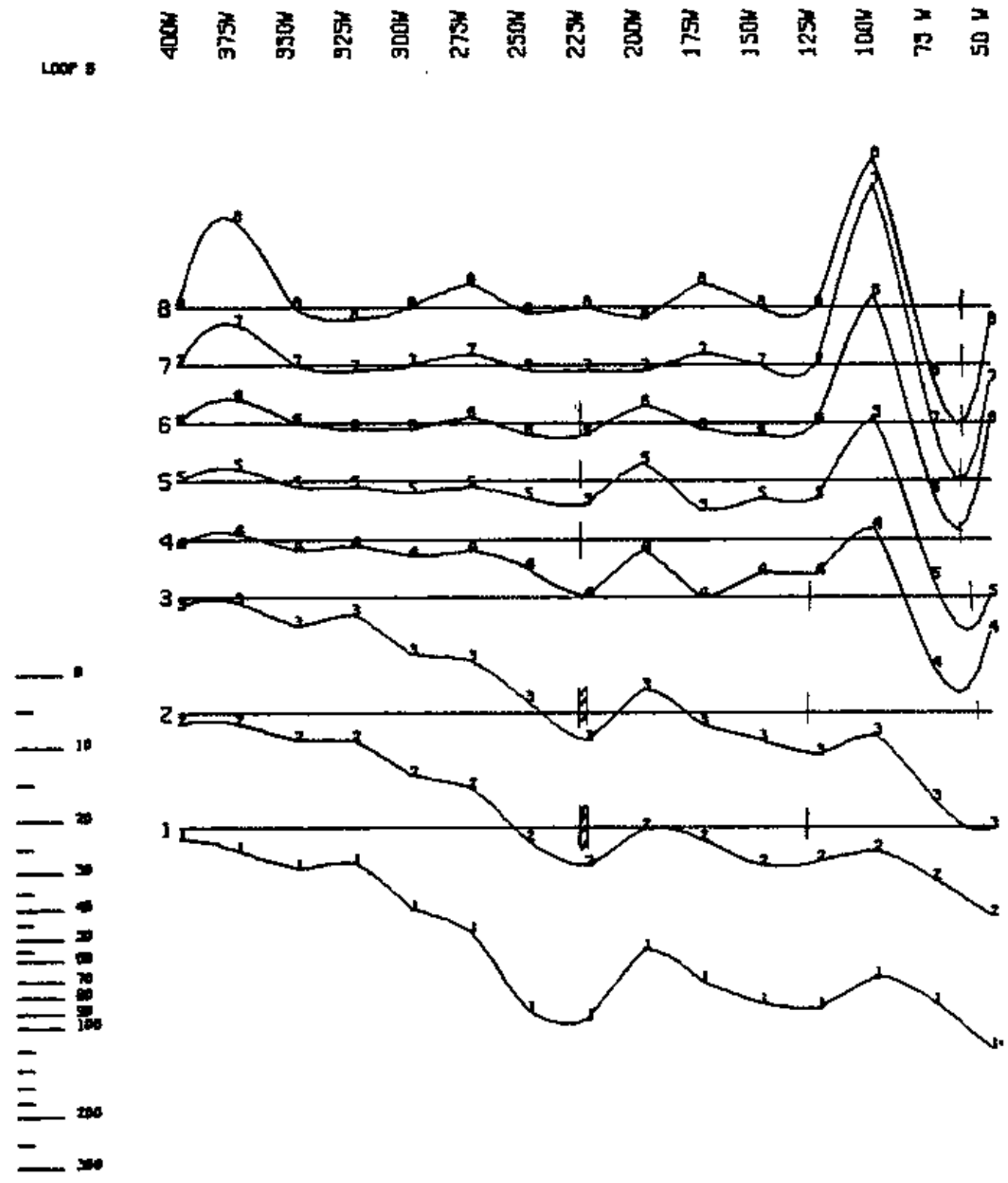
N.T.S. 82 K/15 DATE 24 AUGUST 1979

VECTOR PULSE ELECTROMAGNETOMETER

VERTICAL COMPONENT FIG: 20

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

GOLDEN

LINE 150S B

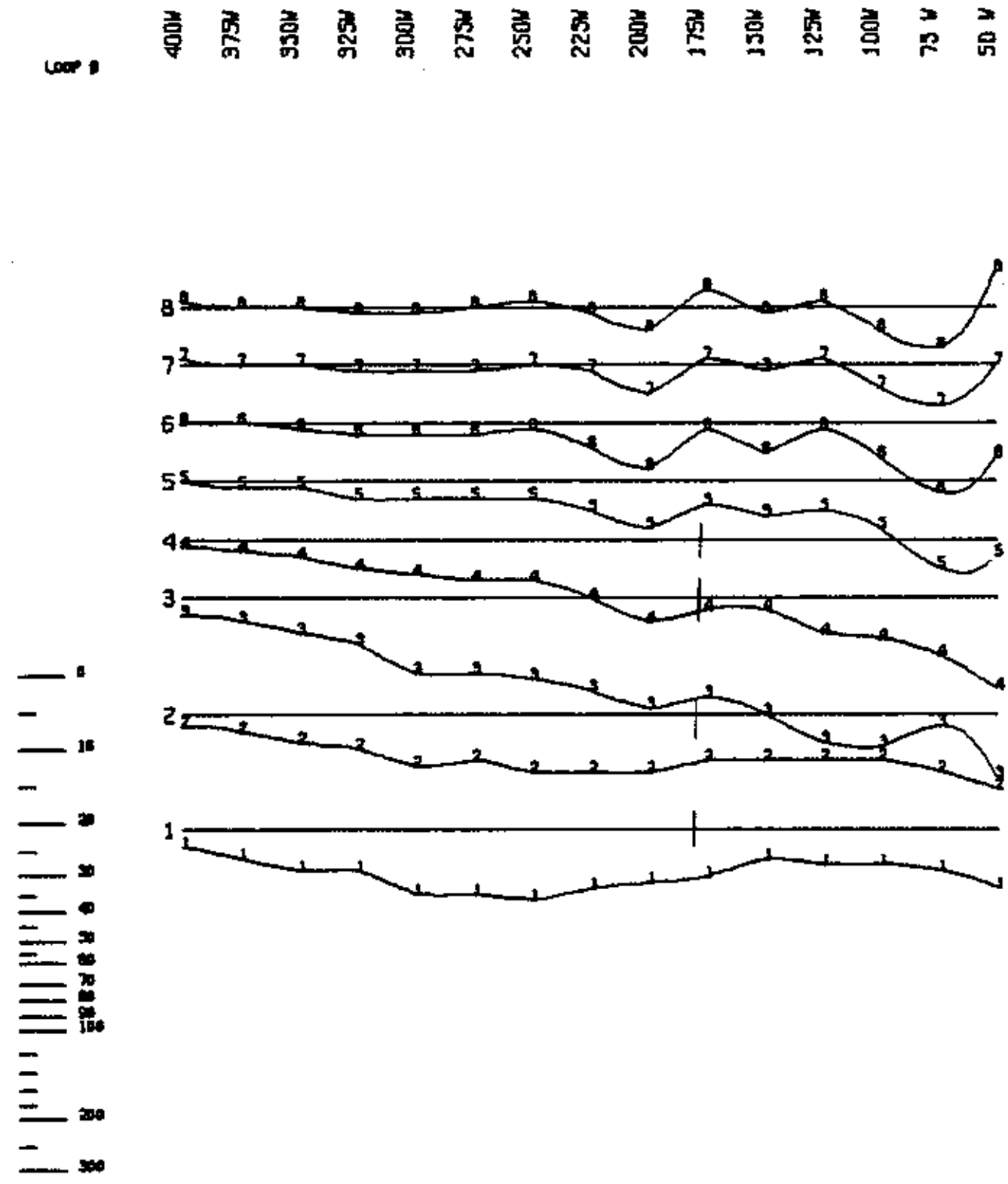
N.T.S. 82 K/15 DATE 24 AUGUST 1979

VECTOR PULSE ELECTROMAGNETOMETER

HORIZONTAL COMPONENT FIG: 23

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

GOLDEN

LINE 150S B

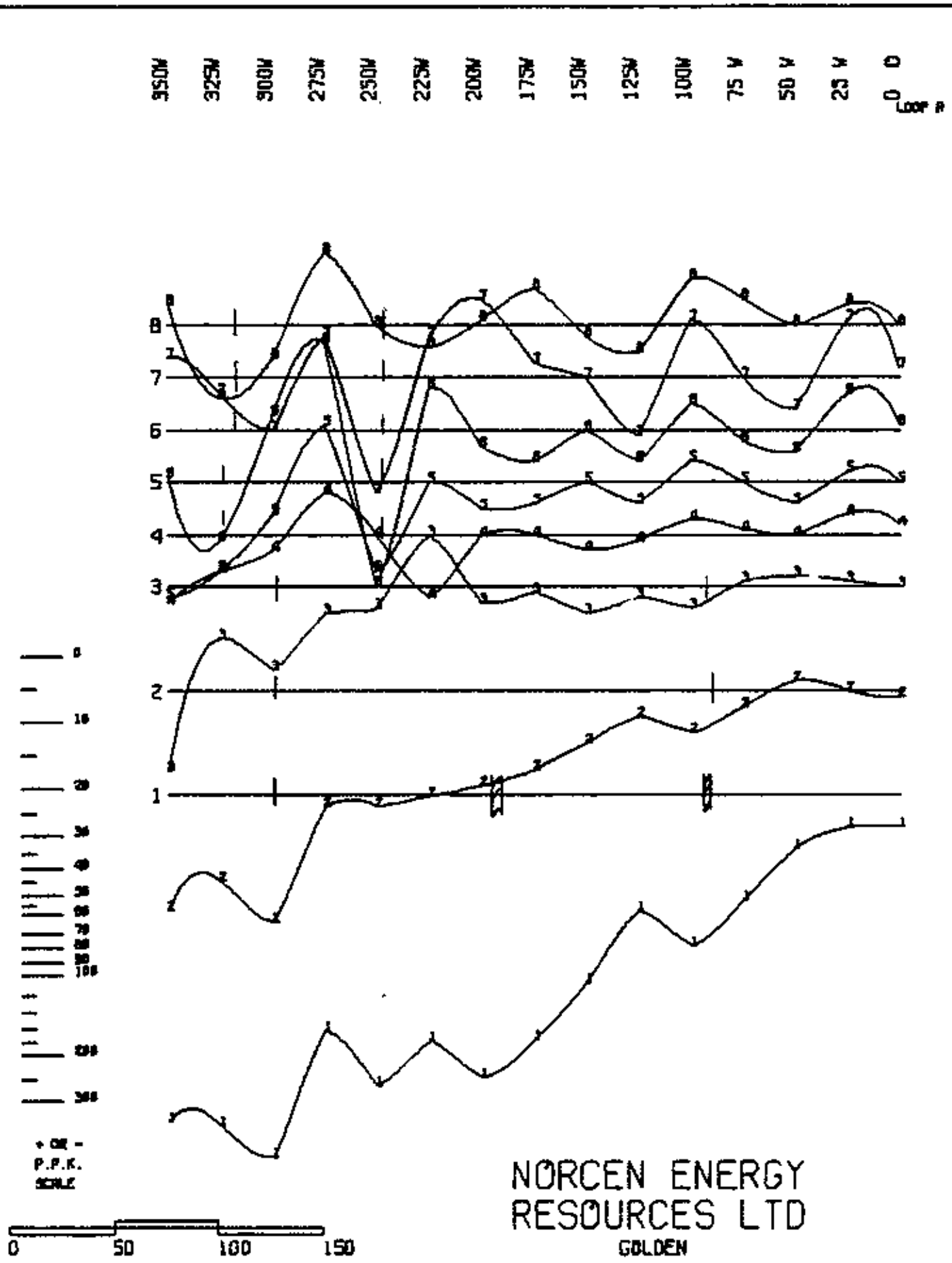
N.T.S. 82 K/15 DATE 24 AUGUST 1979

VECTOR PULSE ELECTROMAGNETOMETER

VERTICAL COMPONENT FIG: 24

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

GOLDEN

LINE 100S A

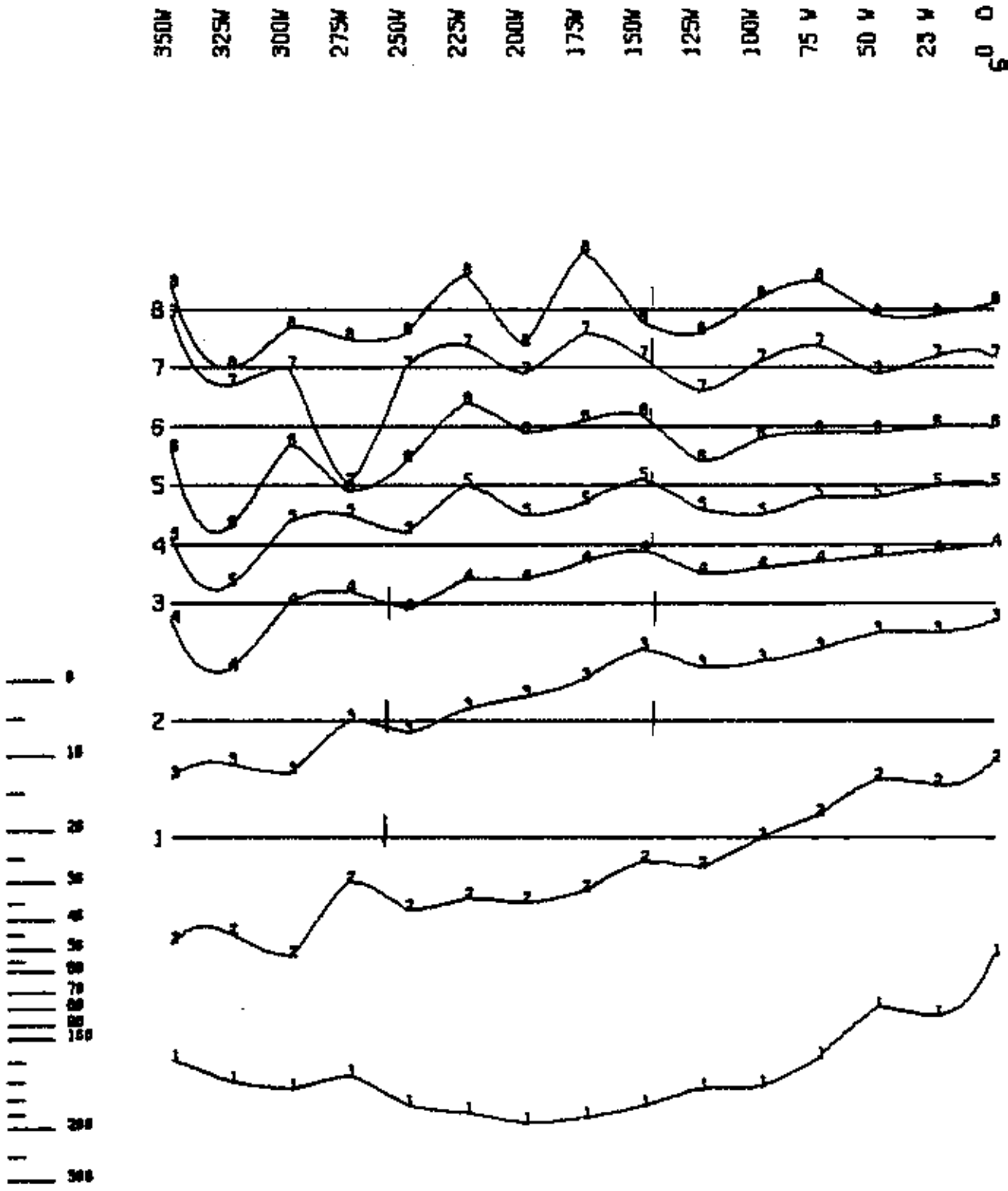
N.T.S. 82 K/15 DATE 24 AUGUST 1979

VECTOR PULSE ELECTROMAGNETOMETER

HORIZONTAL COMPONENT FIG: 25

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

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LINE 100S A

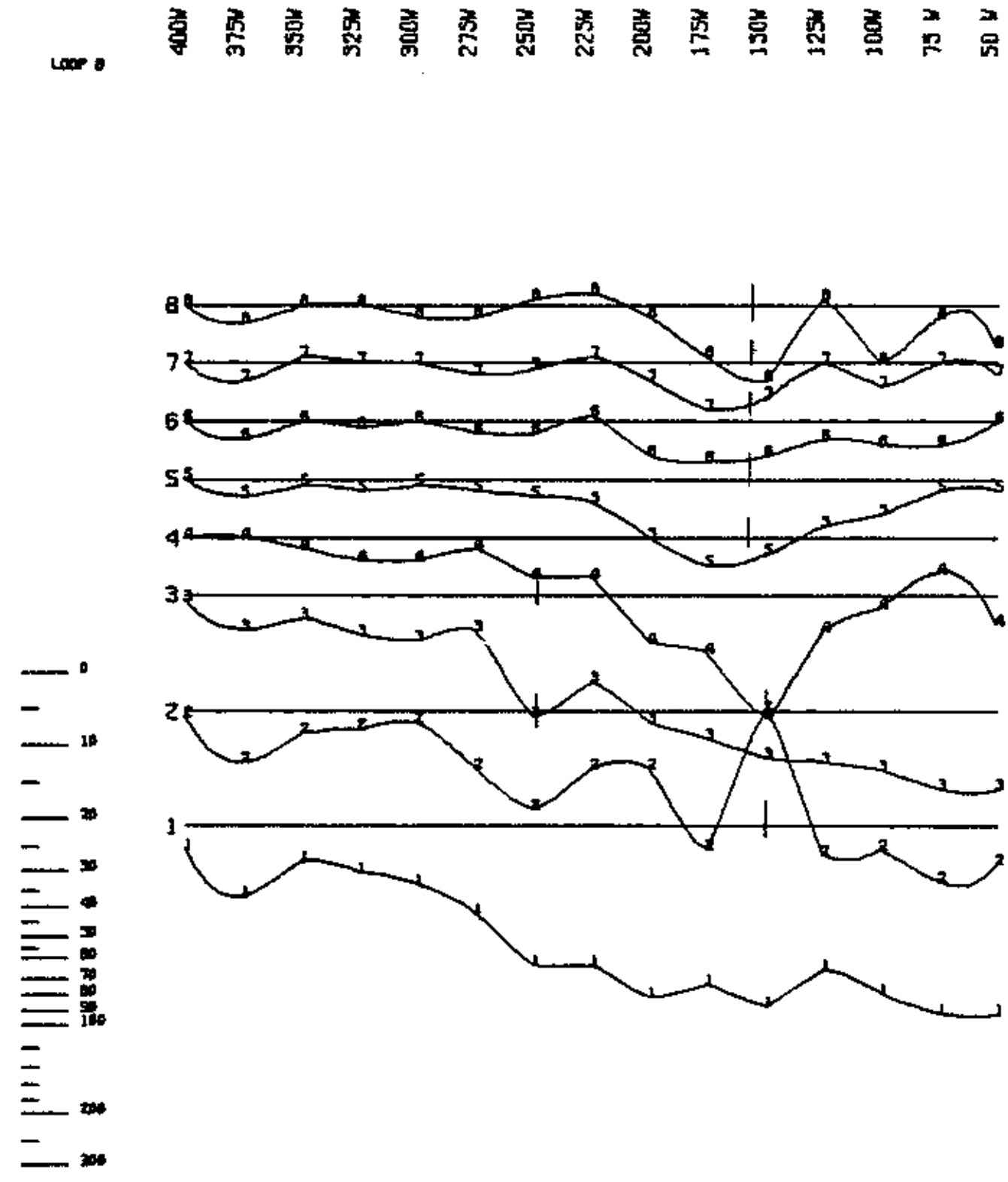
N.T.S. 82 K/15 DATE 24 AUGUST 1970

VECTOR PULSE ELECTROMAGNETOMETER

VERTICAL COMPONENT FIG: 26

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

GOLDEN

LINE 100S B

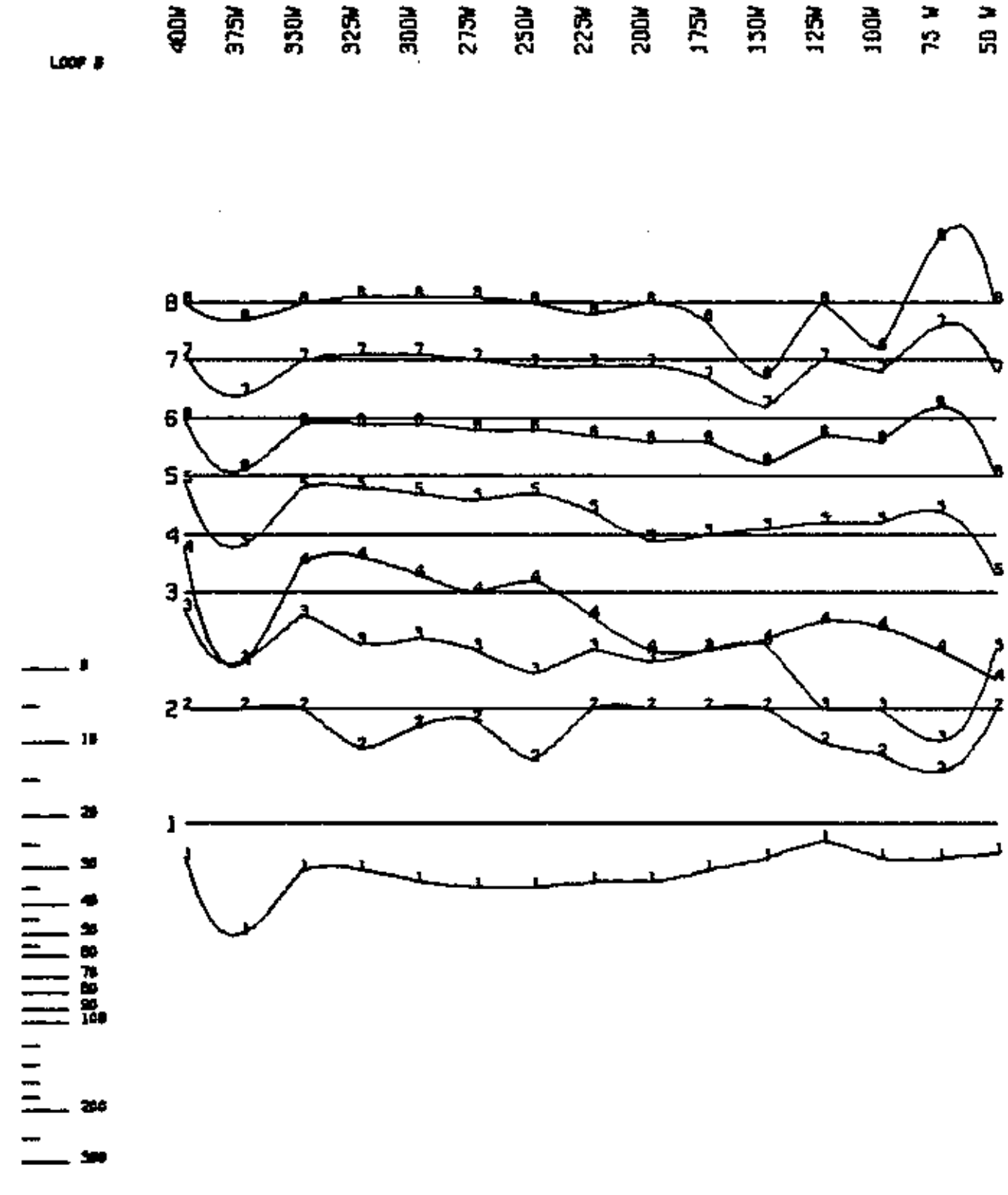
N.T.S. 82 K/1S DATE 24 AUGUST 1979

VECTOR PULSE ELECTROMAGNETOMETER

HORIZONTAL COMPONENT FIG: 27

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

GOLDEN

LINE 100S B

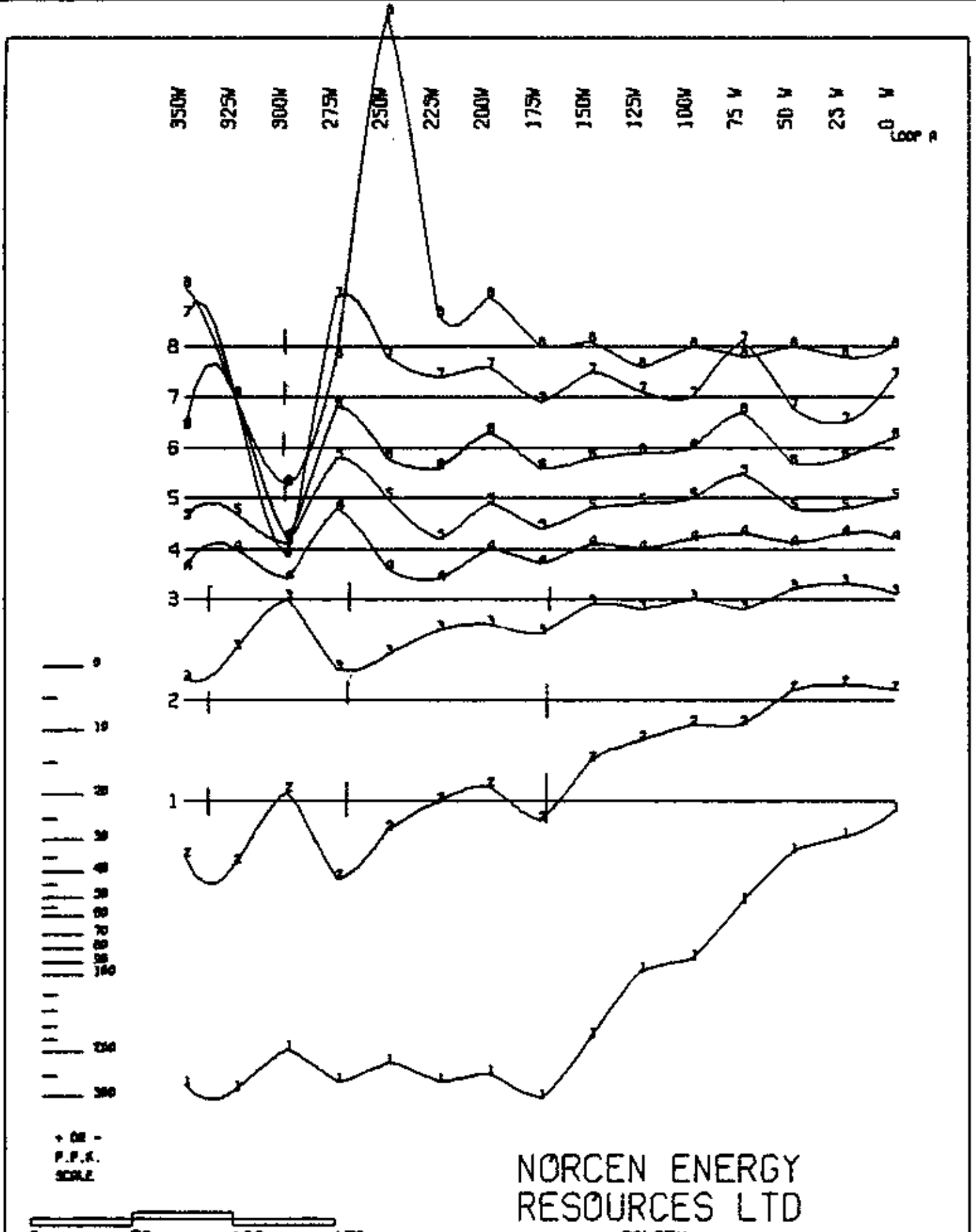
N.T.S. 82 K/15 DATE 24 AUGUST 1970

VECTOR PULSE ELECTROMAGNETOMETER

VERTICAL COMPONENT FIG: 28

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

GOLDEN

LINE 50S A

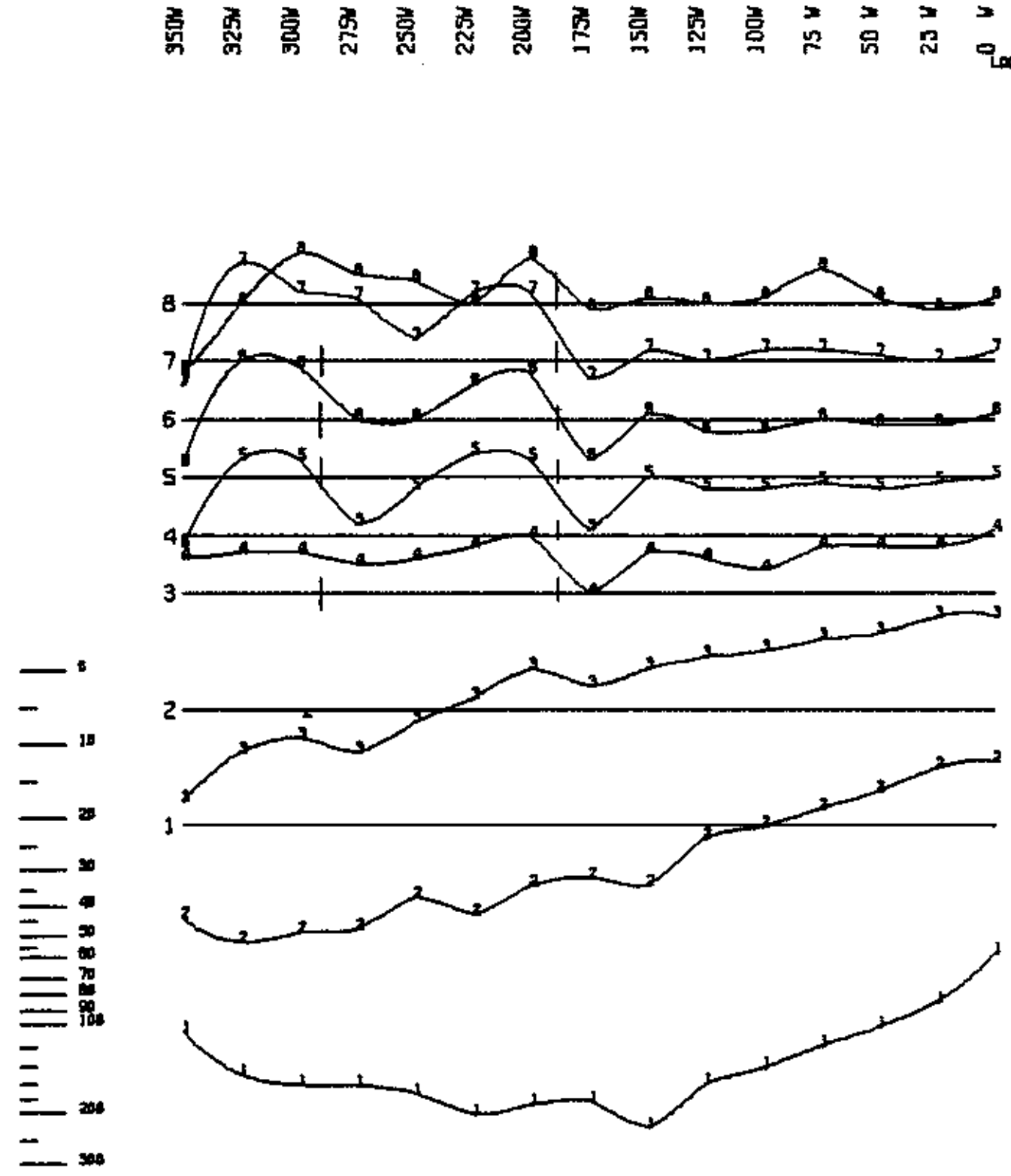
N.T.S. 82 K/15 DATE 24 AUGUST 1978

VECTOR PULSE ELECTROMAGNETOMETER

HORIZONTAL COMPONENT FIG: 29

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

GOLDEN

LINE SOS A

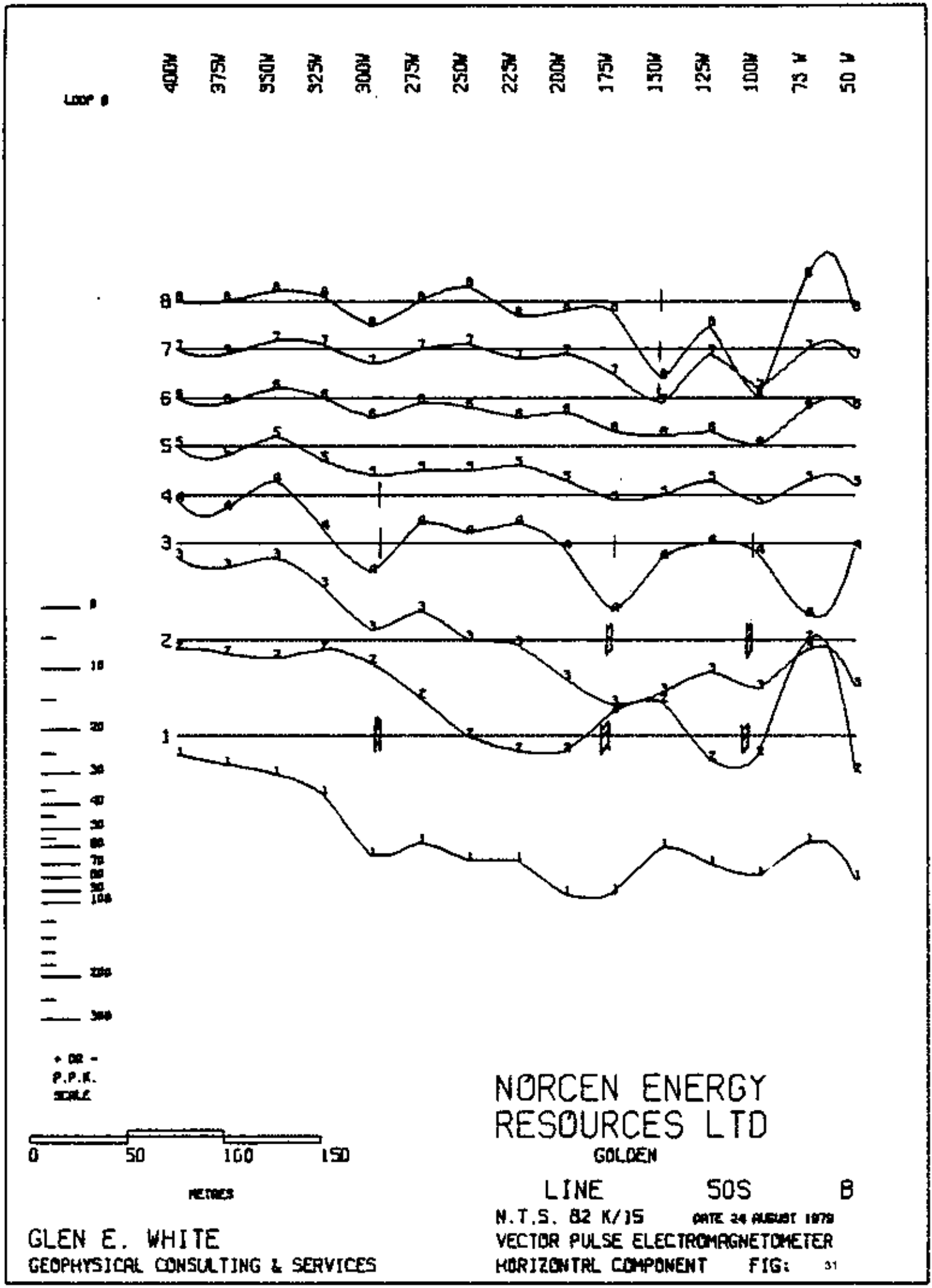
N.T.S. 82 K/15 DATE 24 AUGUST 1979

VECTOR PULSE ELECTROMAGNETOMETER

VERTICAL COMPONENT FIG: 30

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES


400W
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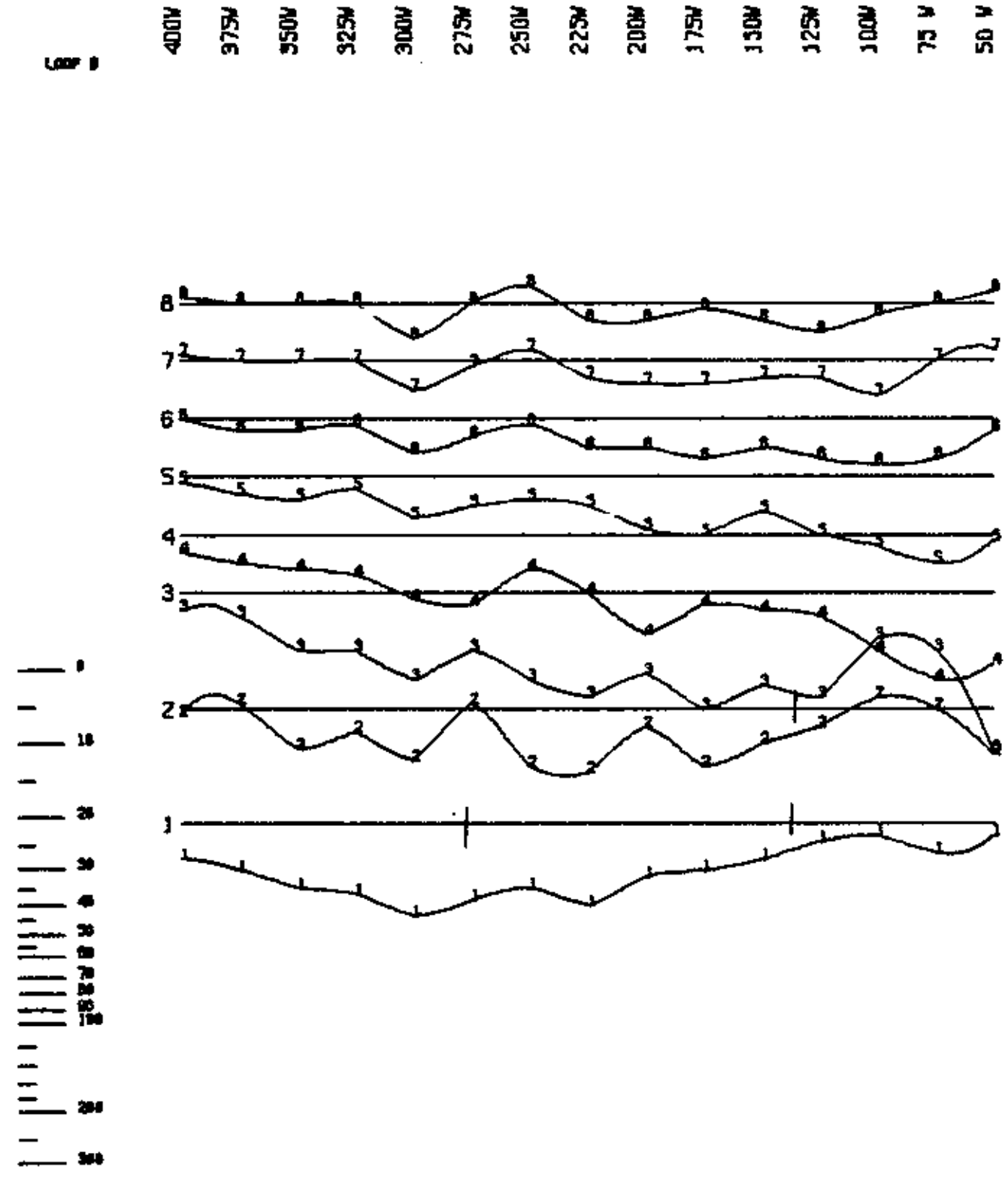
NORCEN ENERGY
RESOURCES LTD
GOLDEN
LINE 50S B
N.T.S. 82 K/15
DATE 24 AUGUST 1979
VECTOR PULSE ELECTROMAGNETOMETER
HORIZONTAL COMPONENT
FIG: 31
GLEN E. WHITE
GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

GOLDEN

LINE 50S B

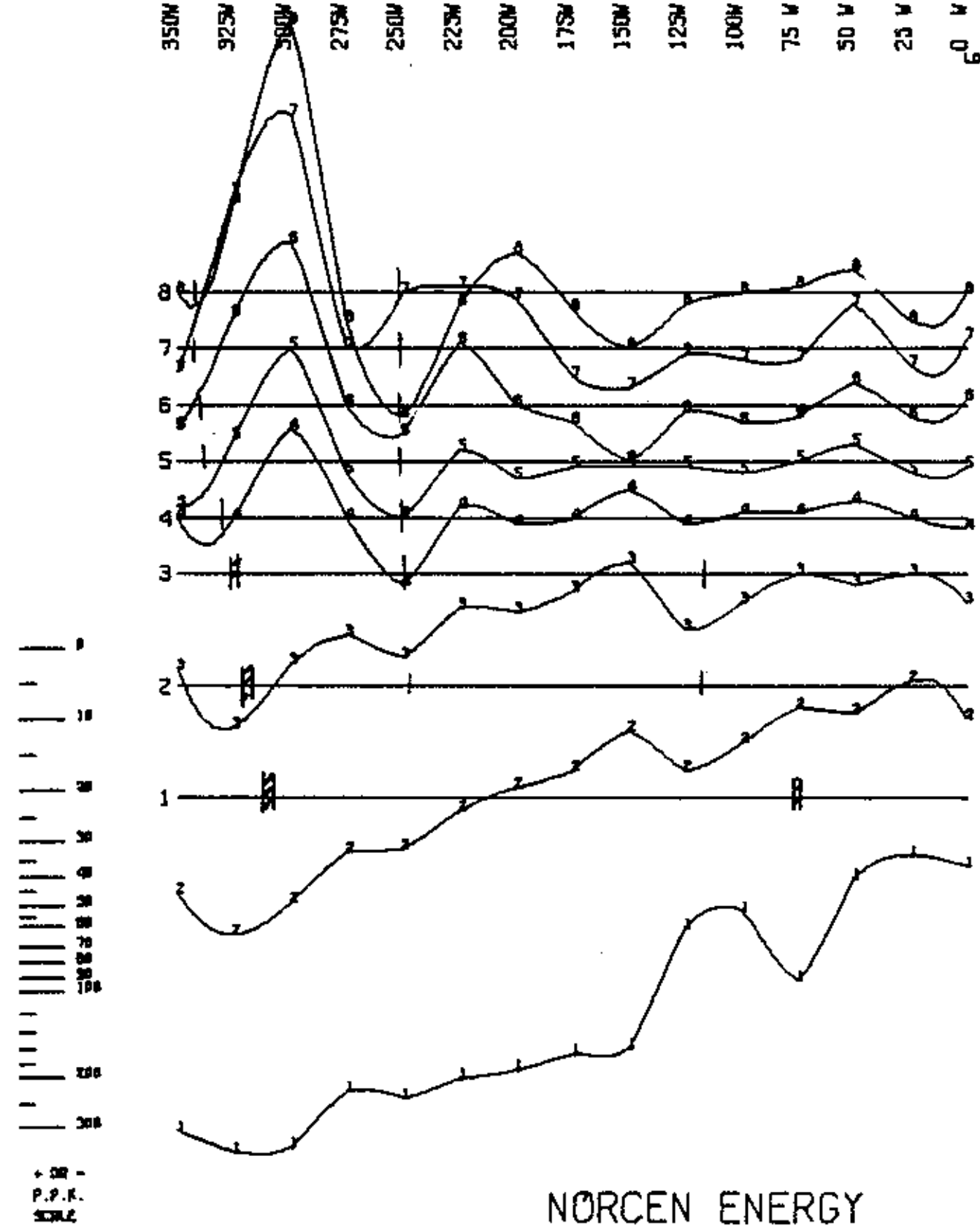
N.T.S. 82 K/1S DATE 24 AUGUST 1979

VECTOR PULSE ELECTROMAGNETOMETER

VERTICAL COMPONENT FIG: 32

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

GOLDEN

LINE L00 A

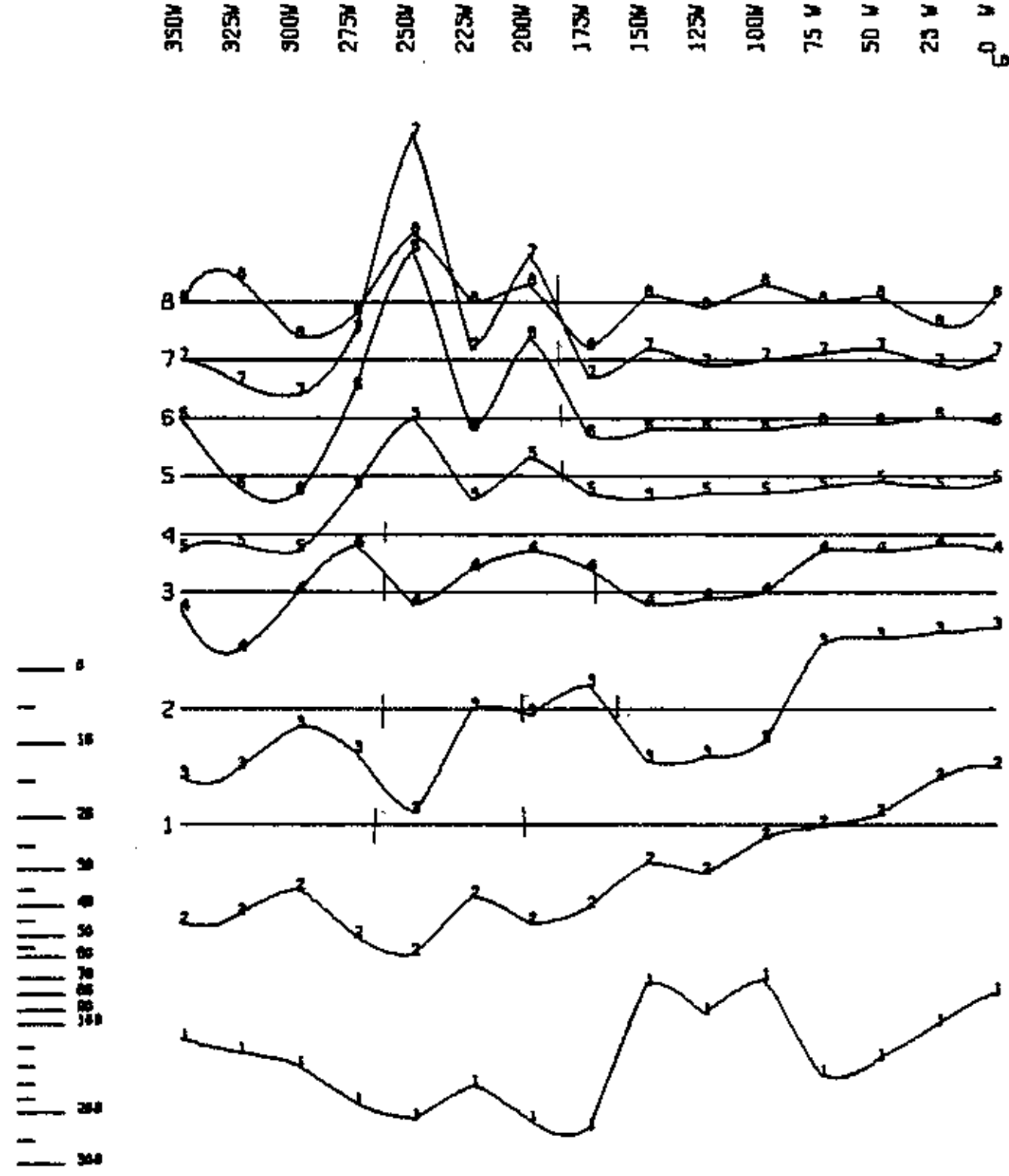
N.T.S. 82 K/15 DATE 24 AUGUST 1979

VECTOR PULSE ELECTROMAGNETOMETER

HORIZONTAL COMPONENT FIG: 33

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

GOLDEN

LINE L00 A

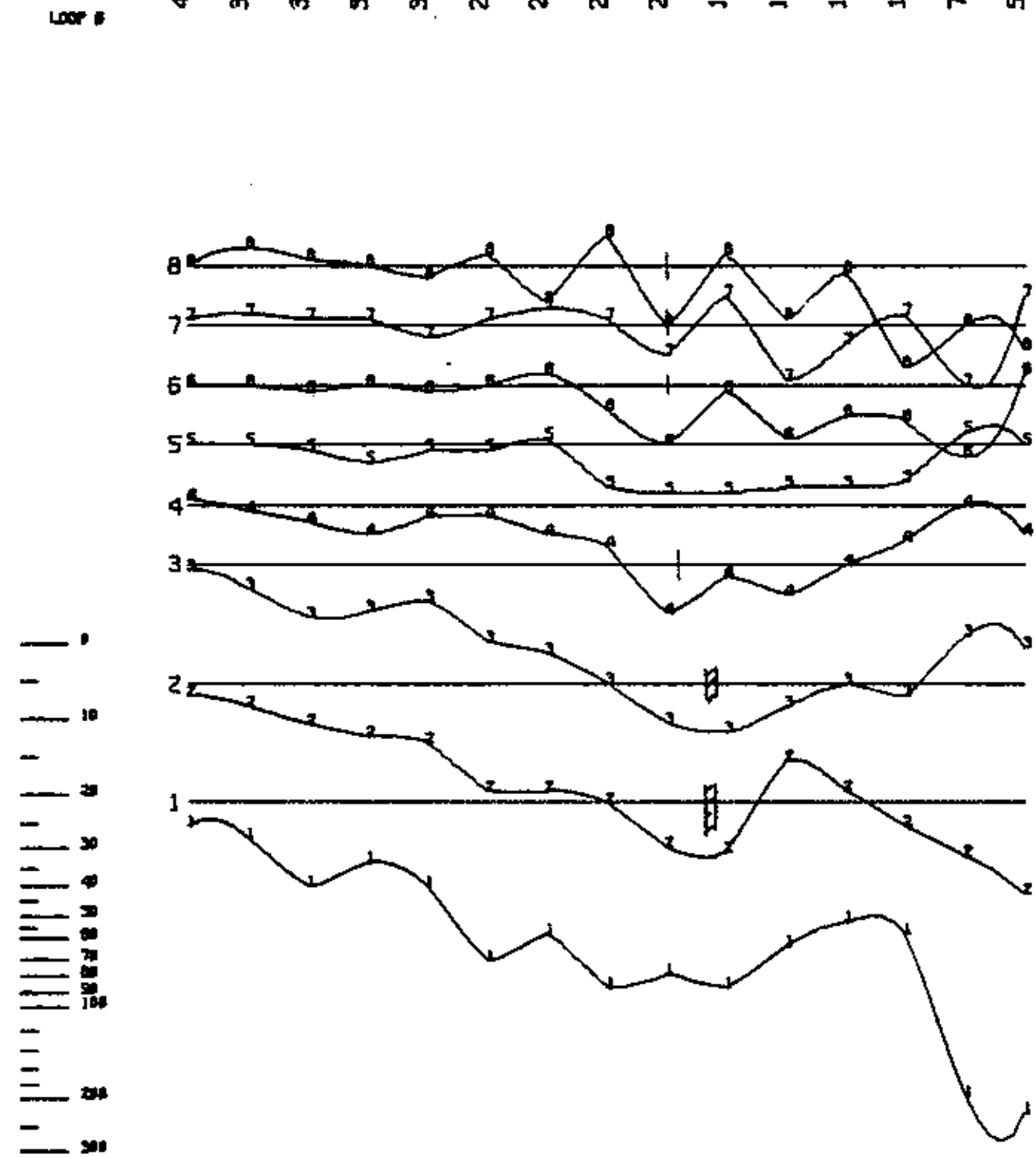
N.T.S. 82 K/15 DATE 24 AUGUST 1979

VECTOR PULSE ELECTROMAGNETOMETER

VERTICAL COMPONENT FIG: 3-4

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

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LINE 000 B

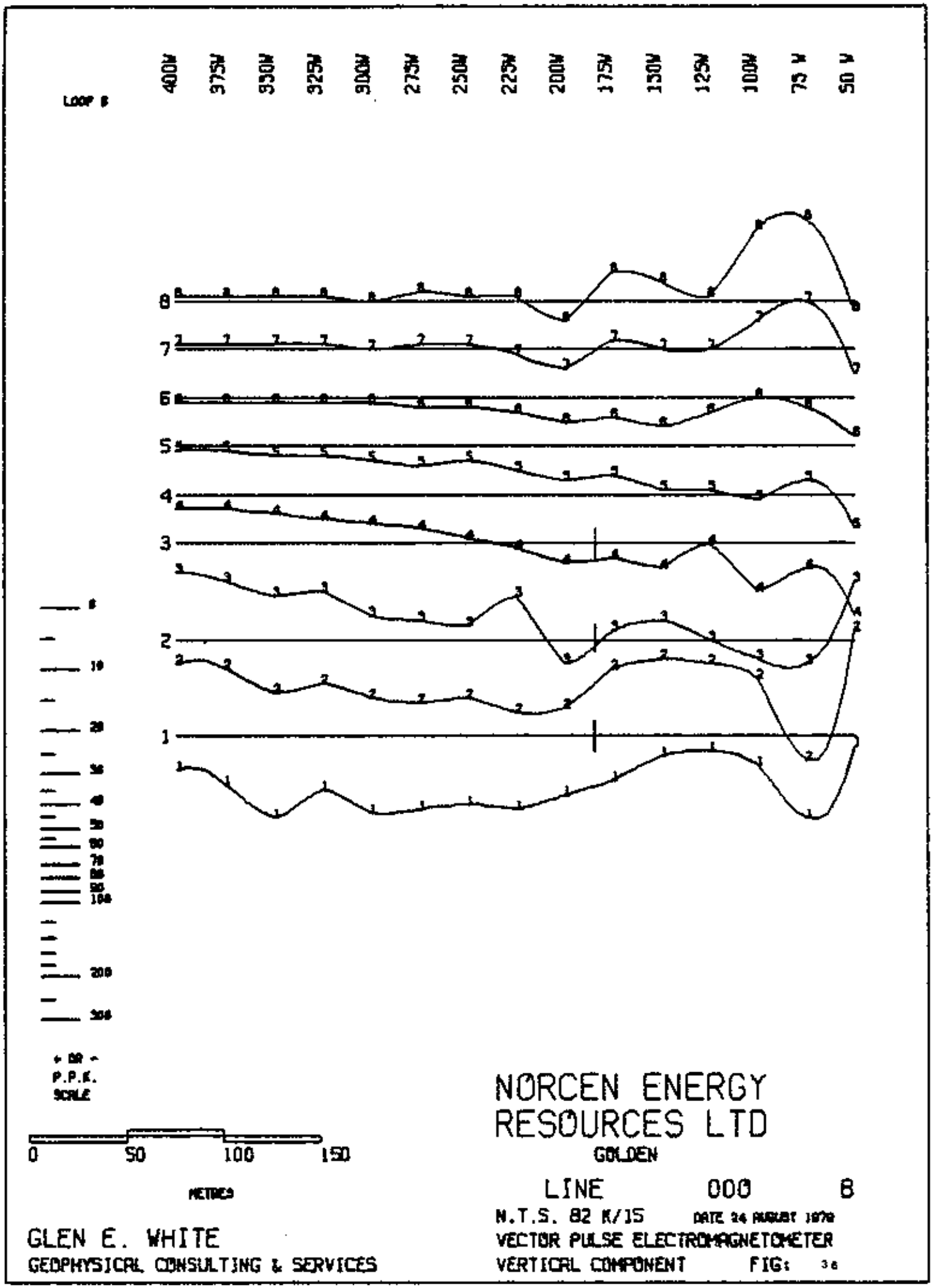
N.T.S. 82 K/15 DATE 24 AUGUST 1978

VECTOR PULSE ELECTROMAGNETOMETER

HORIZONTAL COMPONENT FIG: 35

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES


LOOP 8
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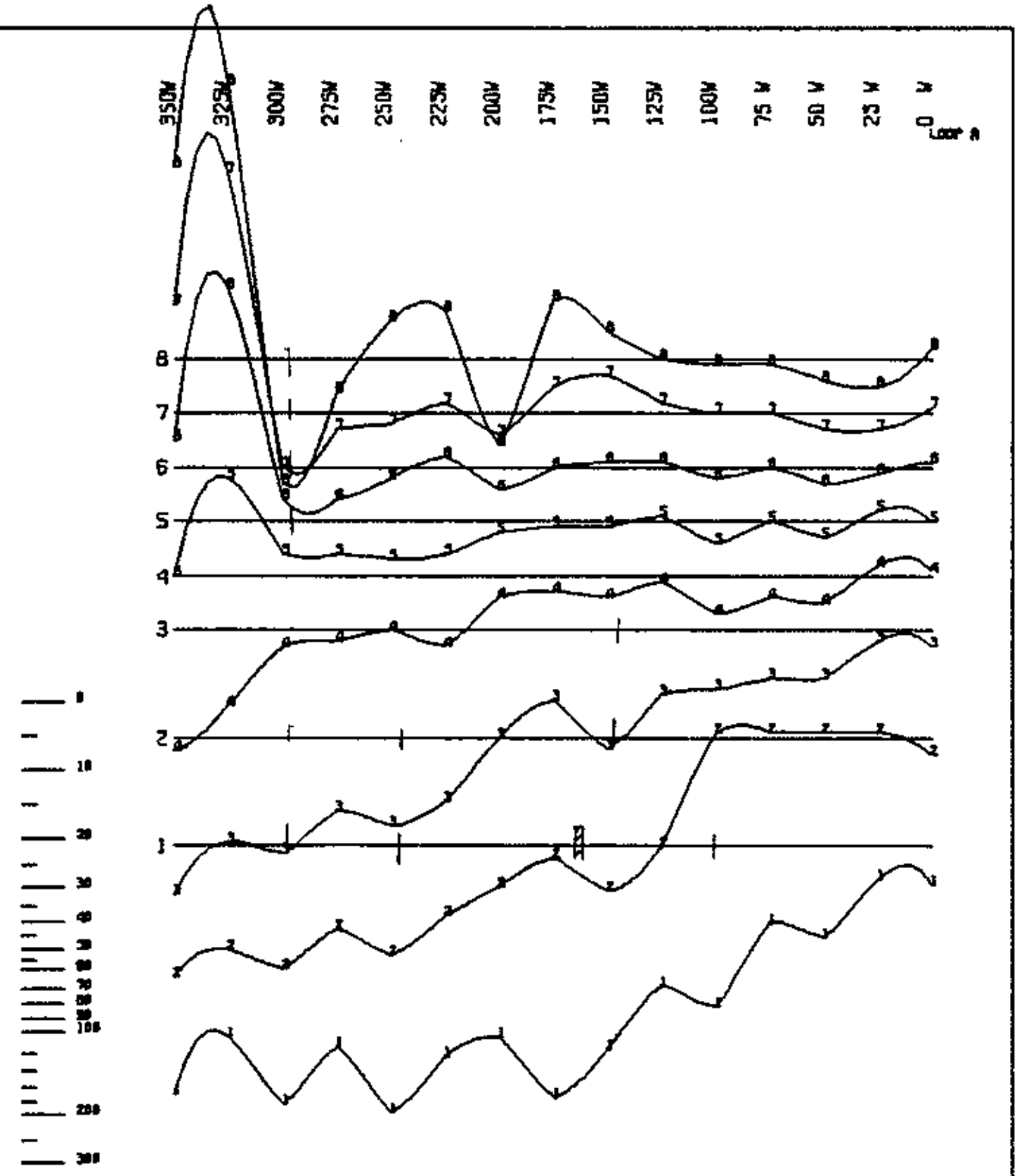
RESOURCES LTD
GOLDEN
LINE 000 8
N.T.S. 82 K/15
DATE 24 AUGUST 1978
VECTOR PULSE ELECTROMAGNETOMETER
VERTICAL COMPONENT
FIG: 36
GLEN E. WHITE
GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

GOLDEN

LINE SON A

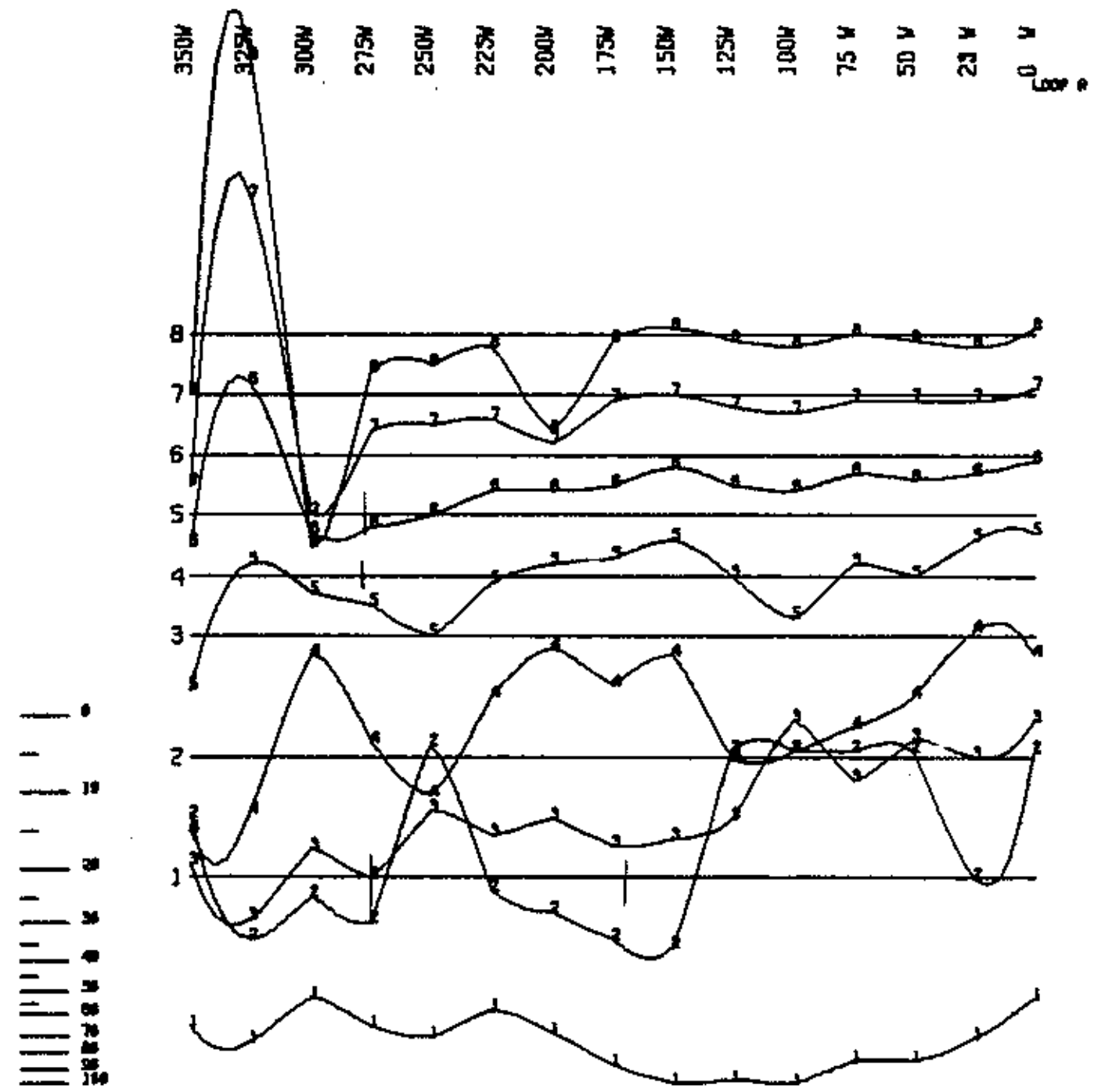
N.T.S. 82 K/15 DATE 24 AUGUST 1979

VECTOR PULSE ELECTROMAGNETOMETER

HORIZONTAL COMPONENT FIG: 37

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

GOLDEN

LINE SON A

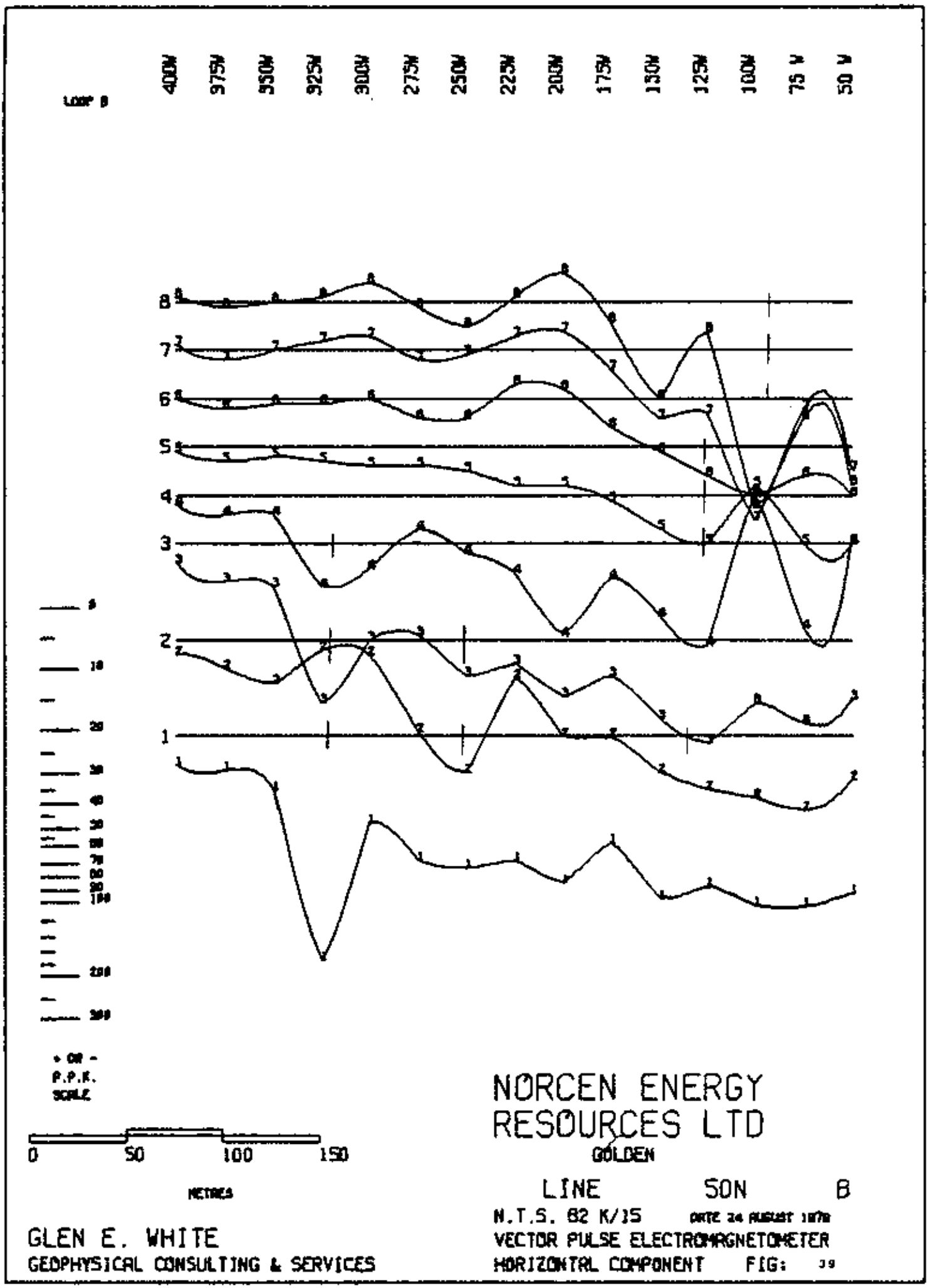
N.T.S. 82 K/15 DATE 24 AUGUST 1978

VECTOR PULSE ELECTROMAGNETOMETER

VERTICAL COMPONENT FIG: 38

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES


400W
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NORCEN ENERGY
RESOURCES LTD
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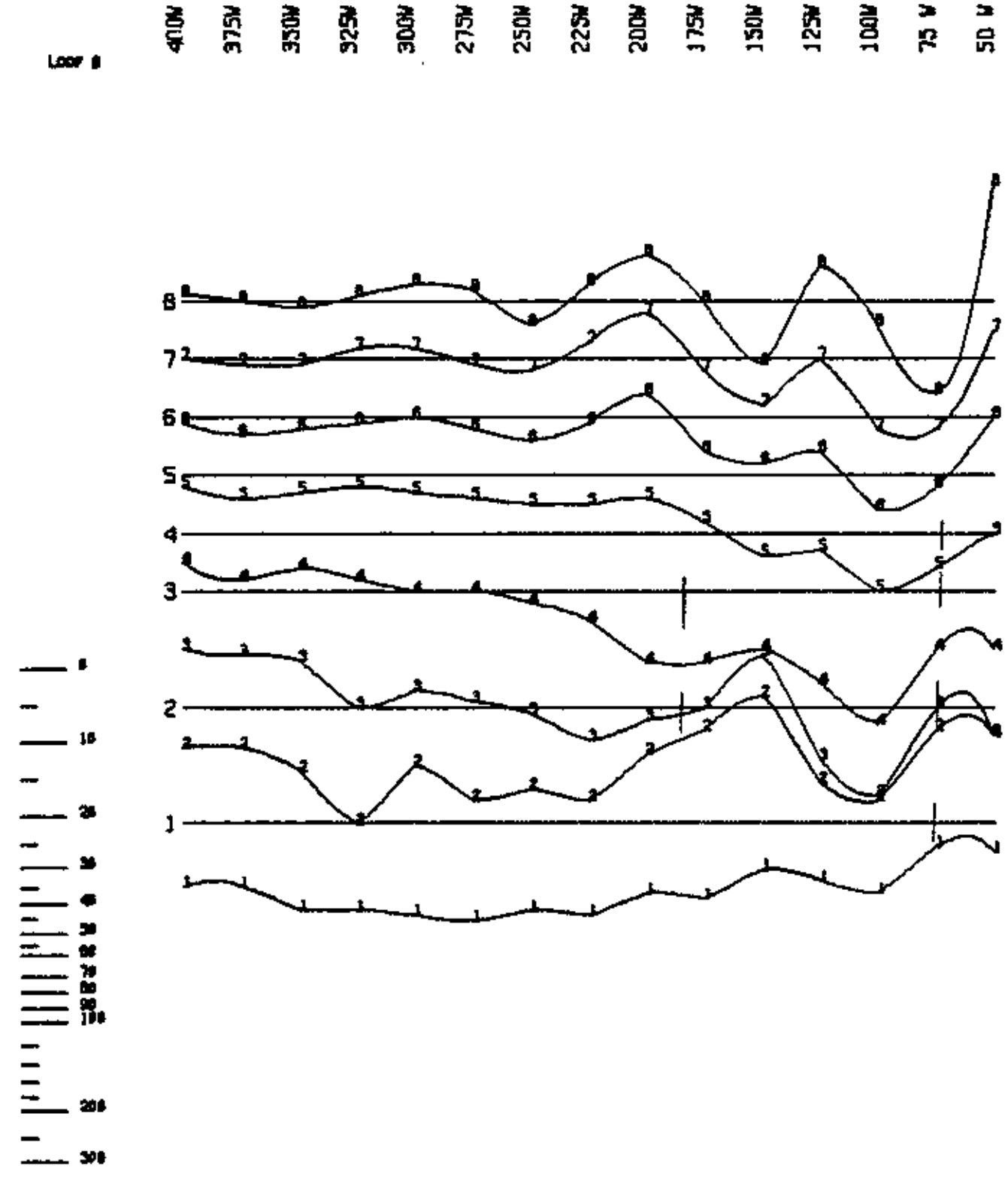
N.T.S. 82 K/15
VECTOR PULSE ELECTROMAGNETOMETER
HORIZONTAL COMPONENT
FIG: 39
GLEN E. WHITE
GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

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LINE 50N B

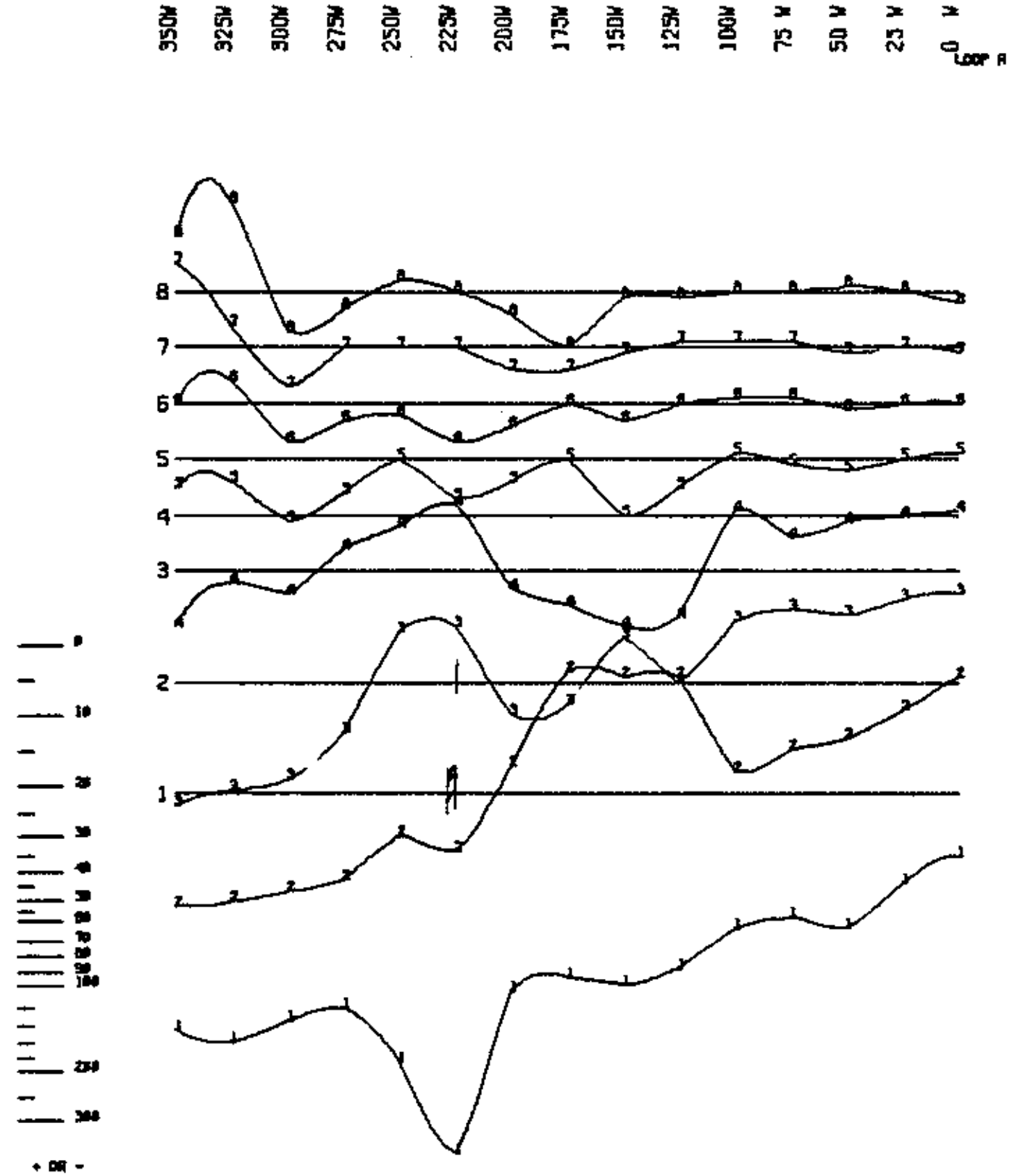
N.T.S. 82 K/15 DATE 24 AUGUST 1978

VECTOR PULSE ELECTROMAGNETOMETER

VERTICAL COMPONENT FIG: 40

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

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LINE 100N A

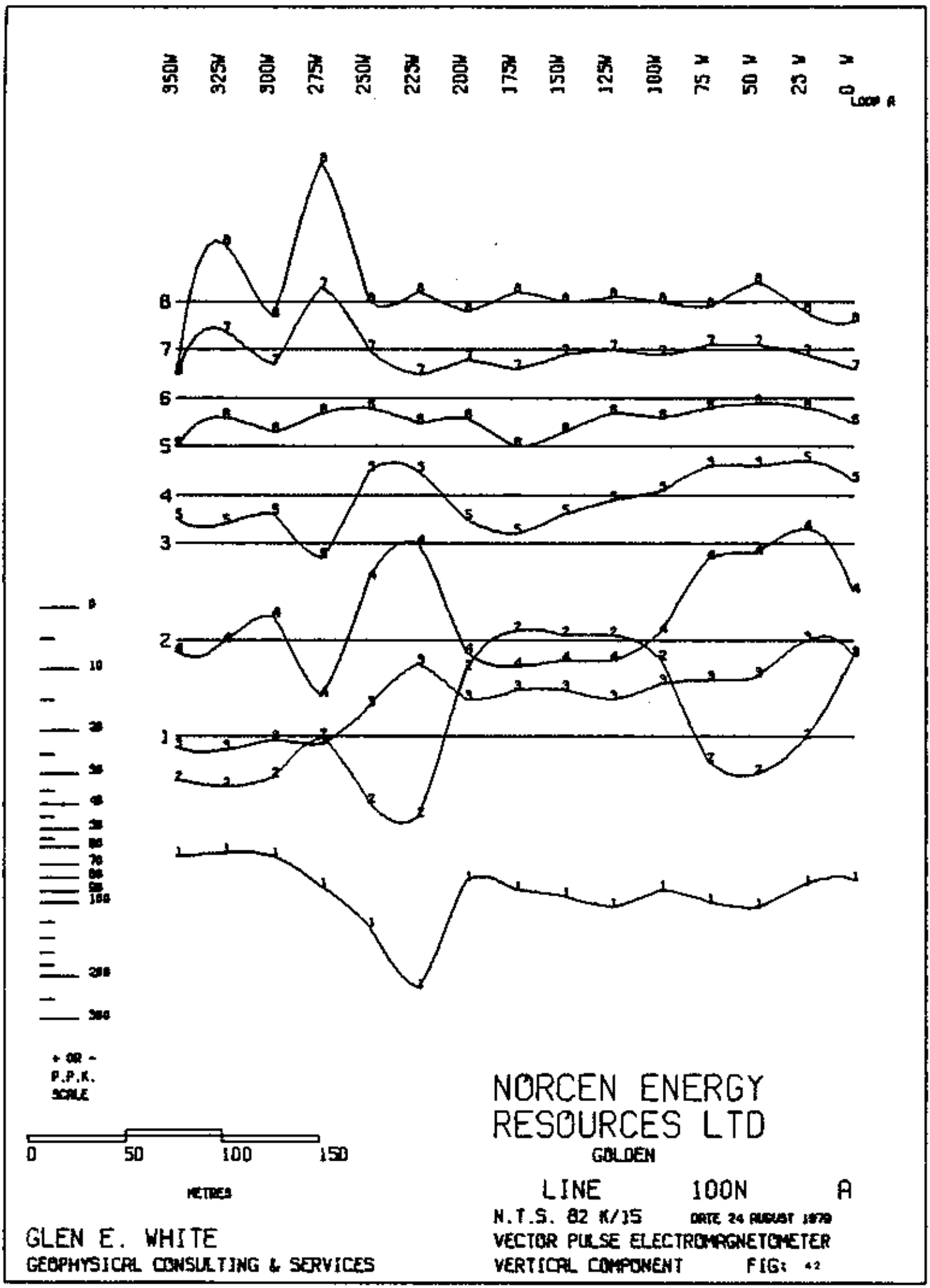
N.T.S. 82 K/15 DATE 24 AUGUST 1979

VECTOR PULSE ELECTROMAGNETOMETER

HORIZONTAL COMPONENT FIG: 41

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES


950W
925W
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875W
850W
825W
800W
775W
750W
725W
700W
675W
650W
625W
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SCALE
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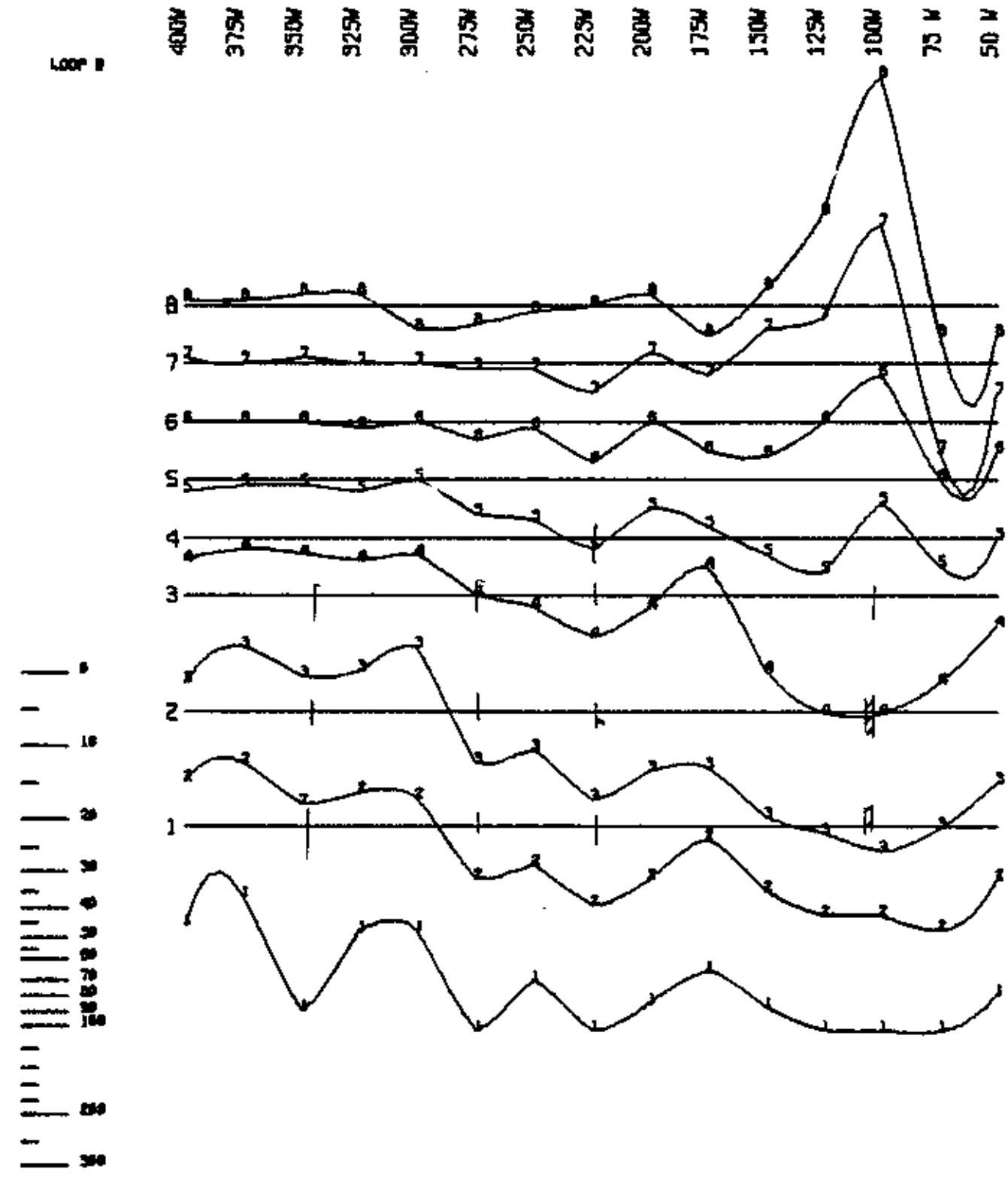
NORCEN ENERGY
RESOURCES LTD
GOLDEN
LINE 100N A
N.T.S. 82 K/15
DATE 24 AUGUST 1979
VECTOR PULSE ELECTROMAGNETOMETER
VERTICAL COMPONENT
FIG: 42
GLEN E. WHITE
GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

GOLDEN

LINE 100N B

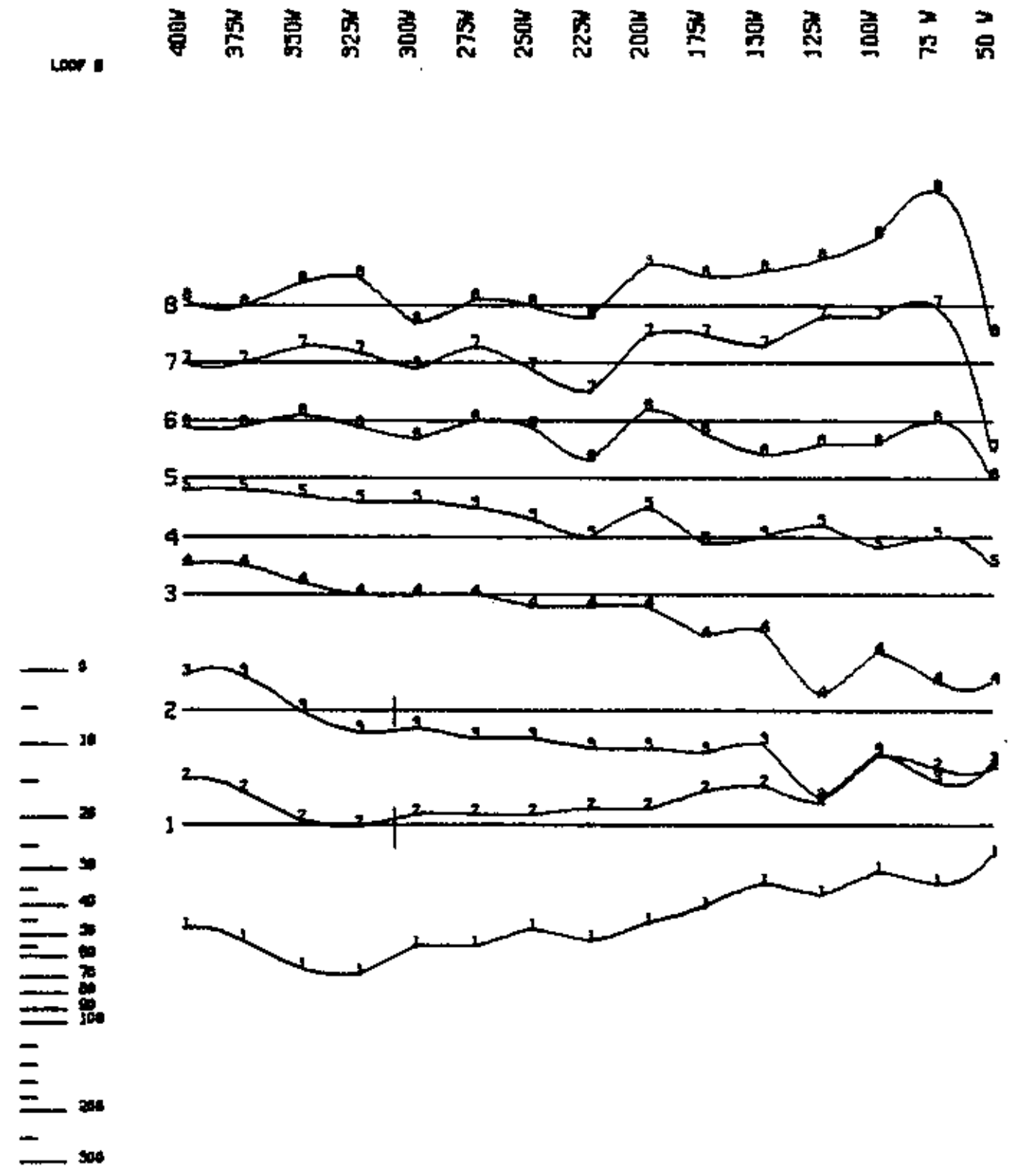
N.T.S. 82 K/15 DATE 24 AUGUST 1970

VECTOR PULSE ELECTROMAGNETOMETER

HORIZONTAL COMPONENT FIG: 43

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

GOLDEN

LINE 100N B

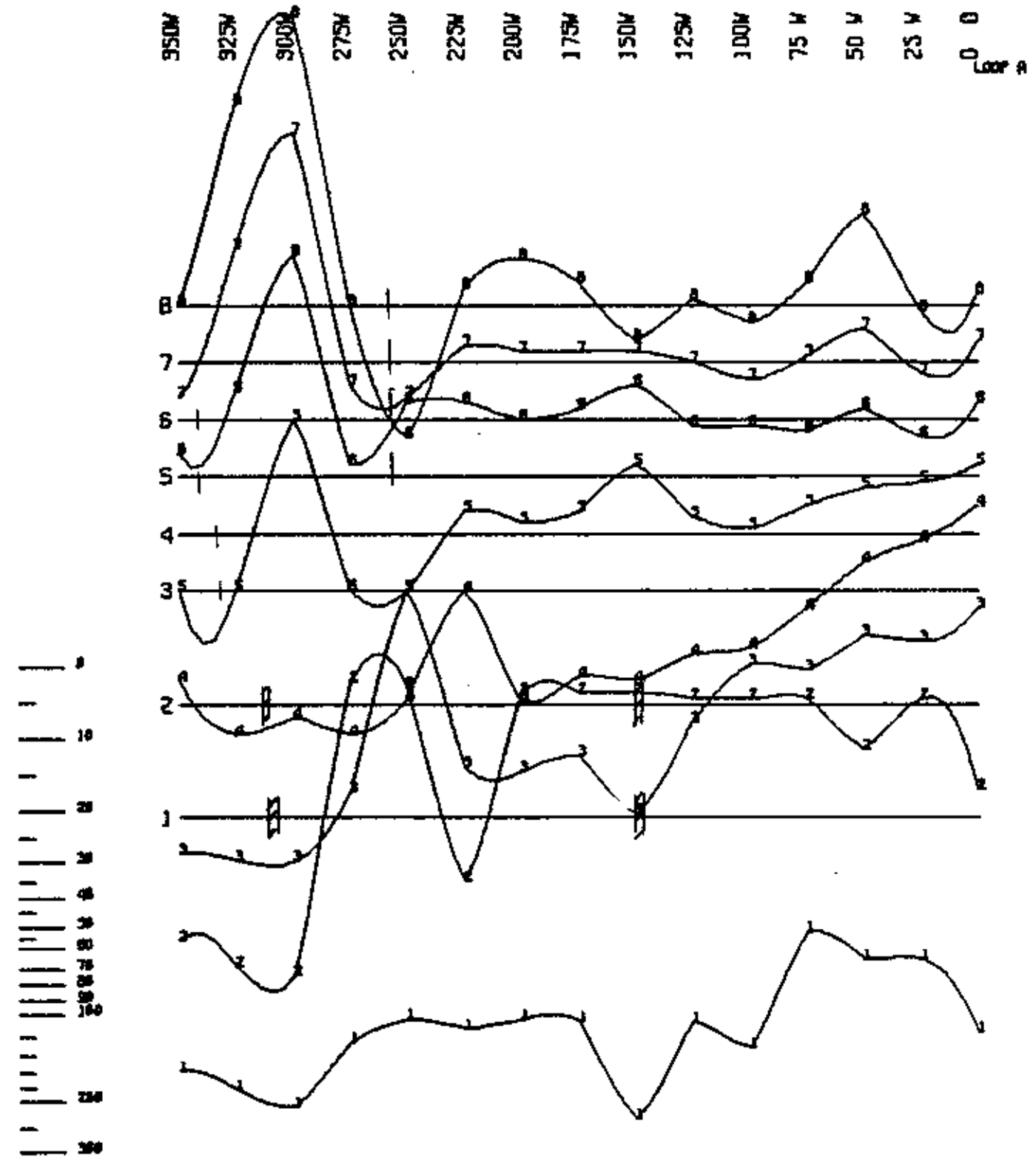
N.T.S. 82 K/15 DATE 24 AUGUST 1979

VECTOR PULSE ELECTROMAGNETOMETER

VERTICAL COMPONENT FIG: 44

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

GOLDEN

LINE 150N A

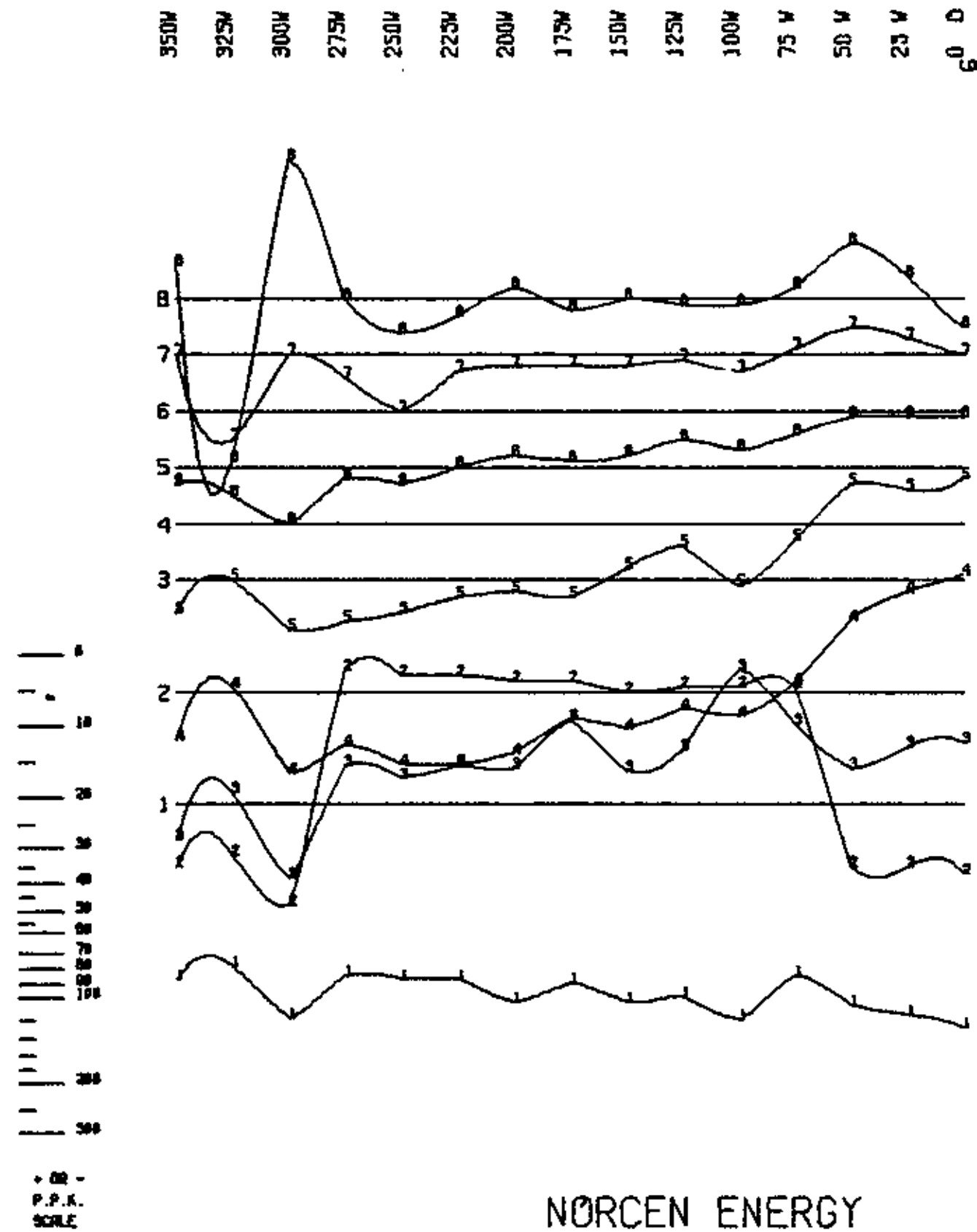
N.T.S. 82 K/15 DATE 24 AUGUST 1970

VECTOR PULSE ELECTROMAGNETOMETER

HORIZONTAL COMPONENT FIG: 45

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

GOLDEN

LINE 150N A

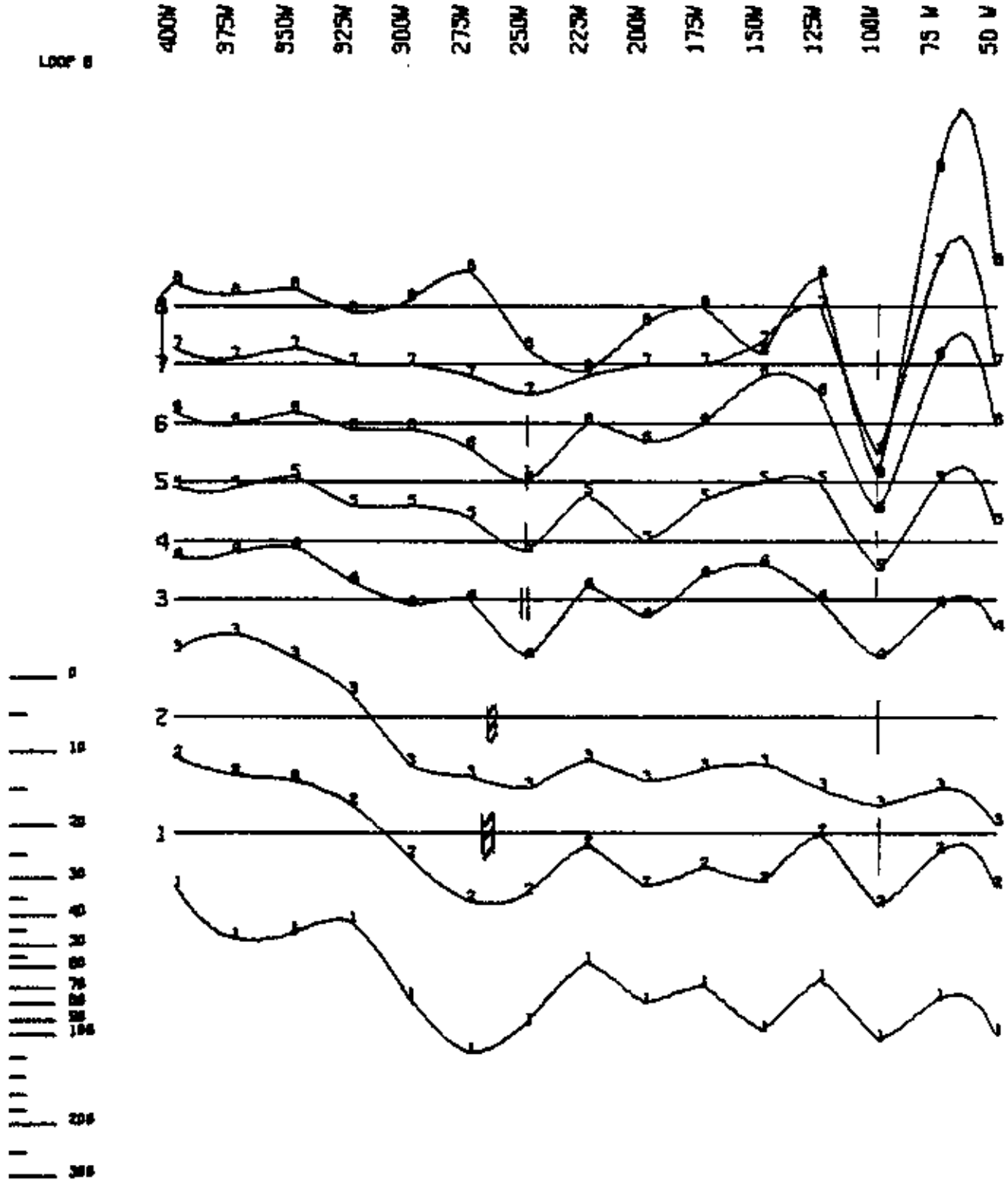
N.T.S. 82 K/15 DATE 24 AUGUST 1979

VECTOR PULSE ELECTROMAGNETOMETER

VERTICAL COMPONENT FIG: 46

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

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LINE 150N B

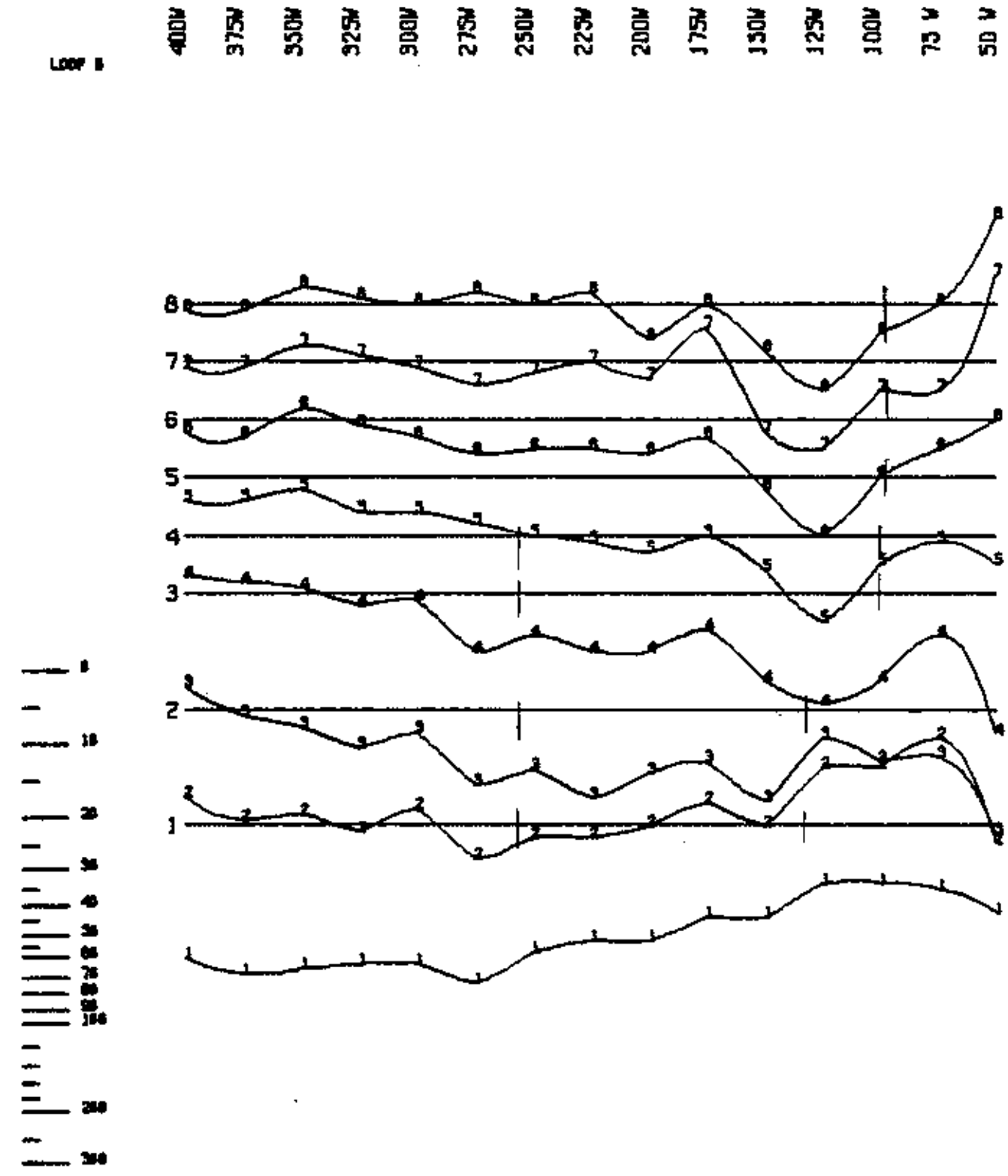
N.T.S. 82 K/15 DATE 24 AUGUST 1978

VECTOR PULSE ELECTROMAGNETOMETER

HORIZONTAL COMPONENT FIG: 47

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

GOLDEN

LINE 150N B

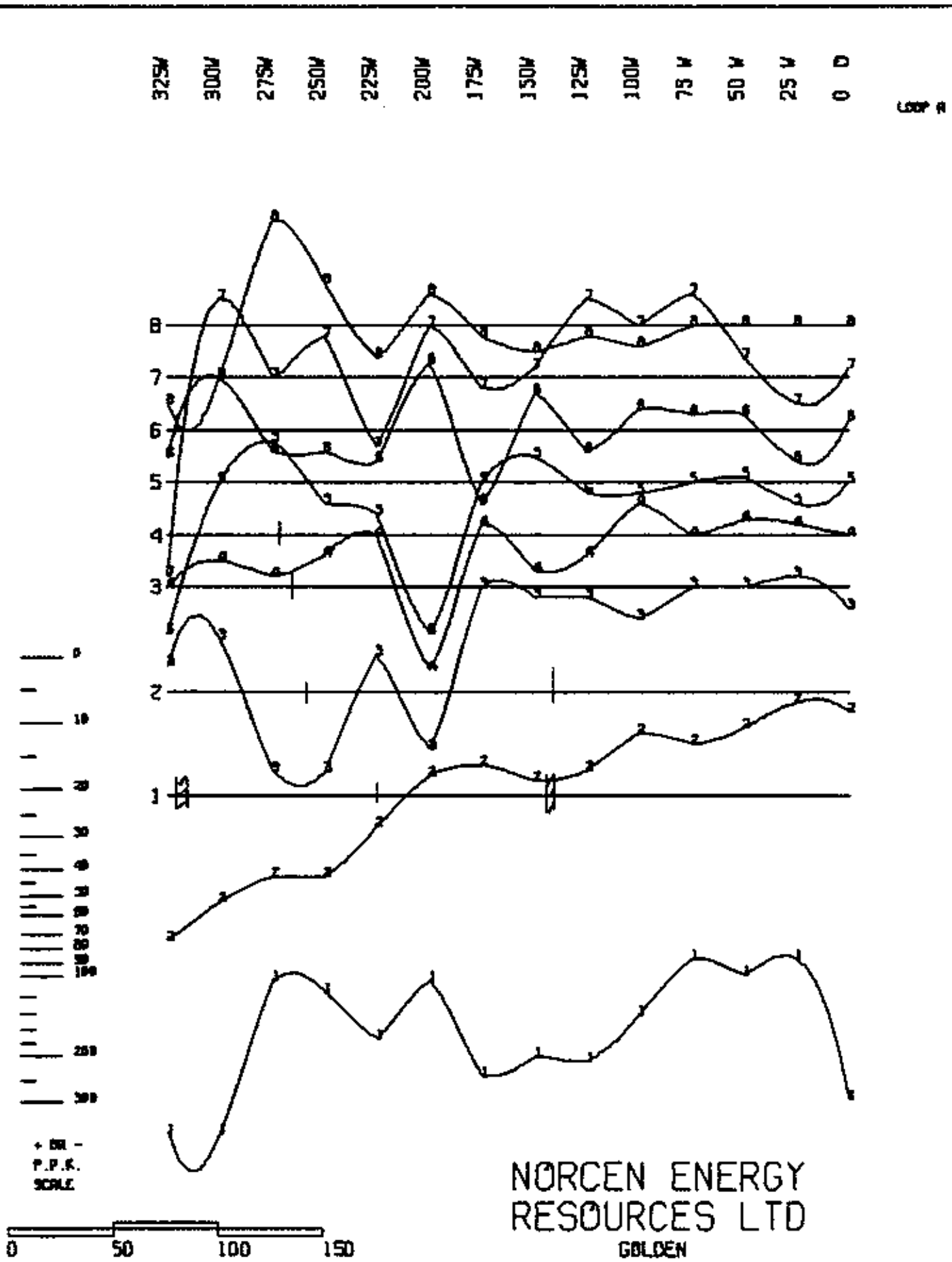
N.T.S. 82 K/15 DATE 24 AUGUST 1970

VECTOR PULSE ELECTROMAGNETOMETER

VERTICAL COMPONENT FIG. 4

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

GOLDEN

LINE 200N A

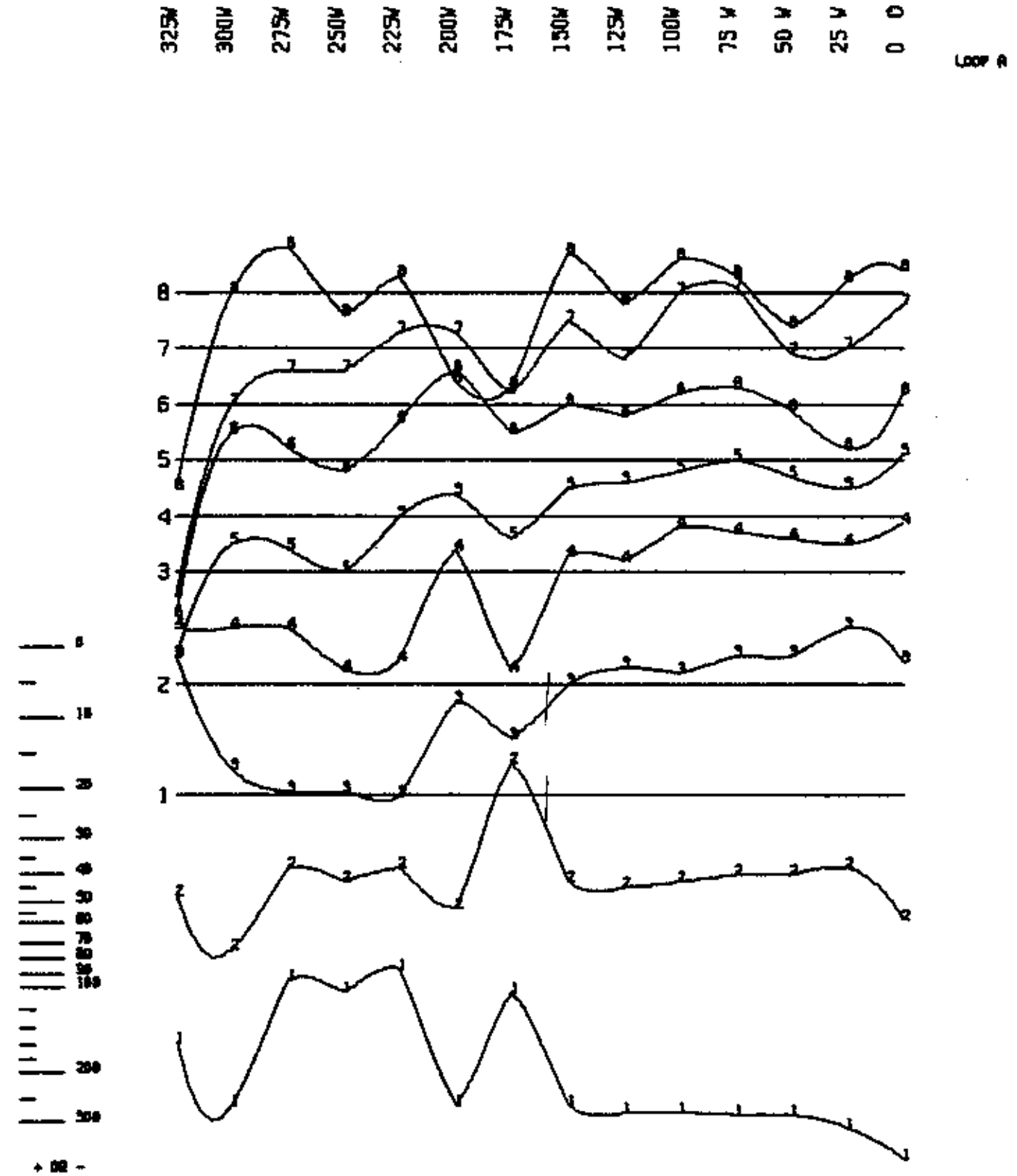
N.T.S. 82 K/15 DATE 24 AUGUST 1979

VECTOR PULSE ELECTROMAGNETOMETER

HORIZONTAL COMPONENT FIG: 49

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

GOLDEN

LINE 200N A

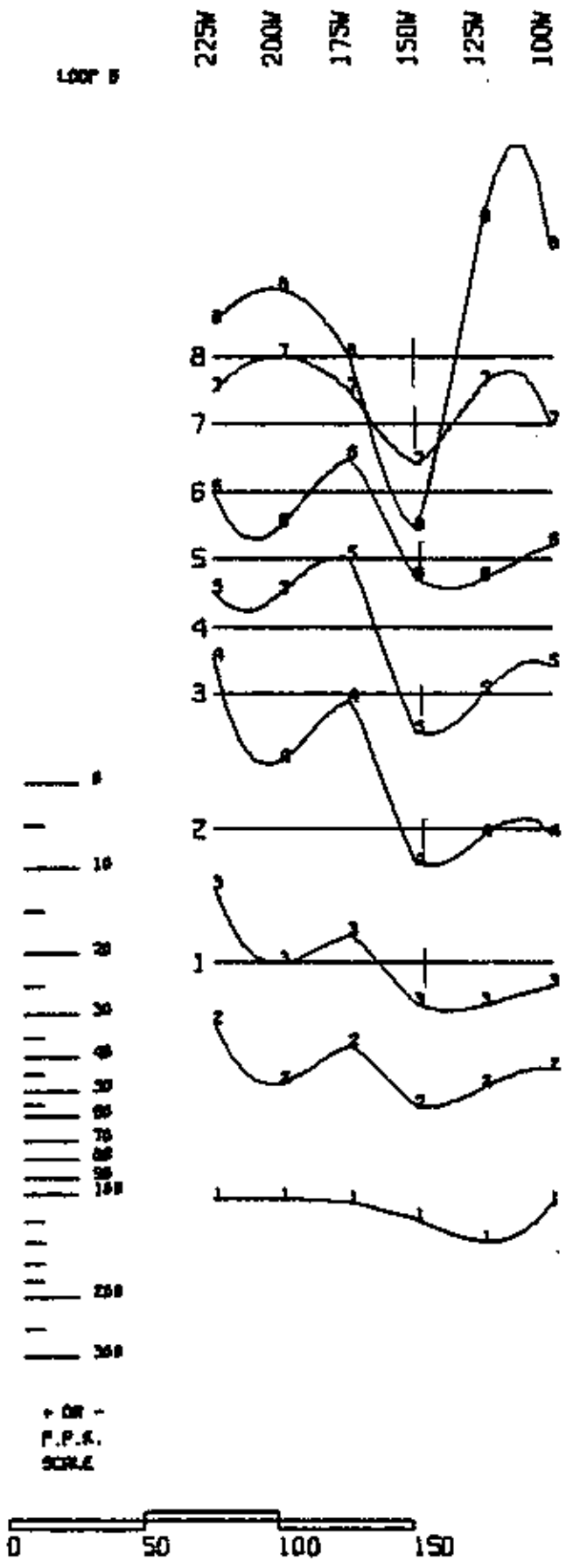
N.T.S. 82 K/15 DATE 24 AUGUST 1979

VECTOR PULSE ELECTROMAGNETOMETER

VERTICAL COMPONENT FIG: 50

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

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LINE 200N B

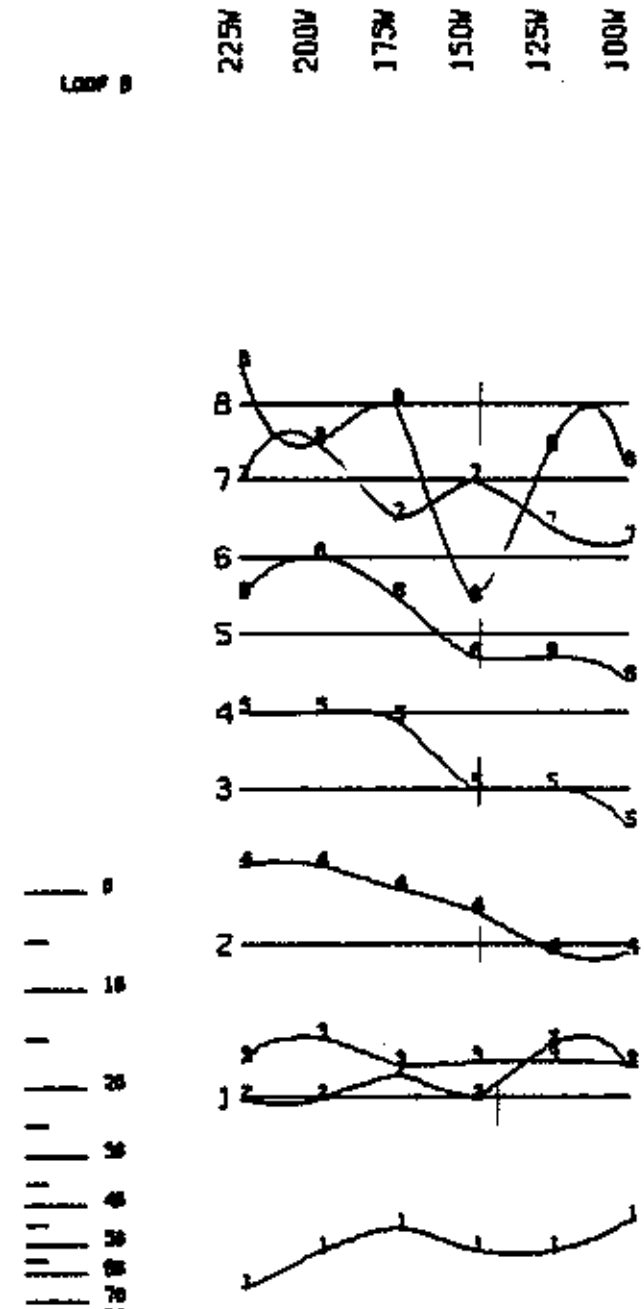
N.T.S. 82 K/15 DATE 24 AUGUST 1979

VECTOR PULSE ELECTROMAGNETOMETER

HORIZONTAL COMPONENT FIG: 51

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

GOLDEN

LINE 200N B

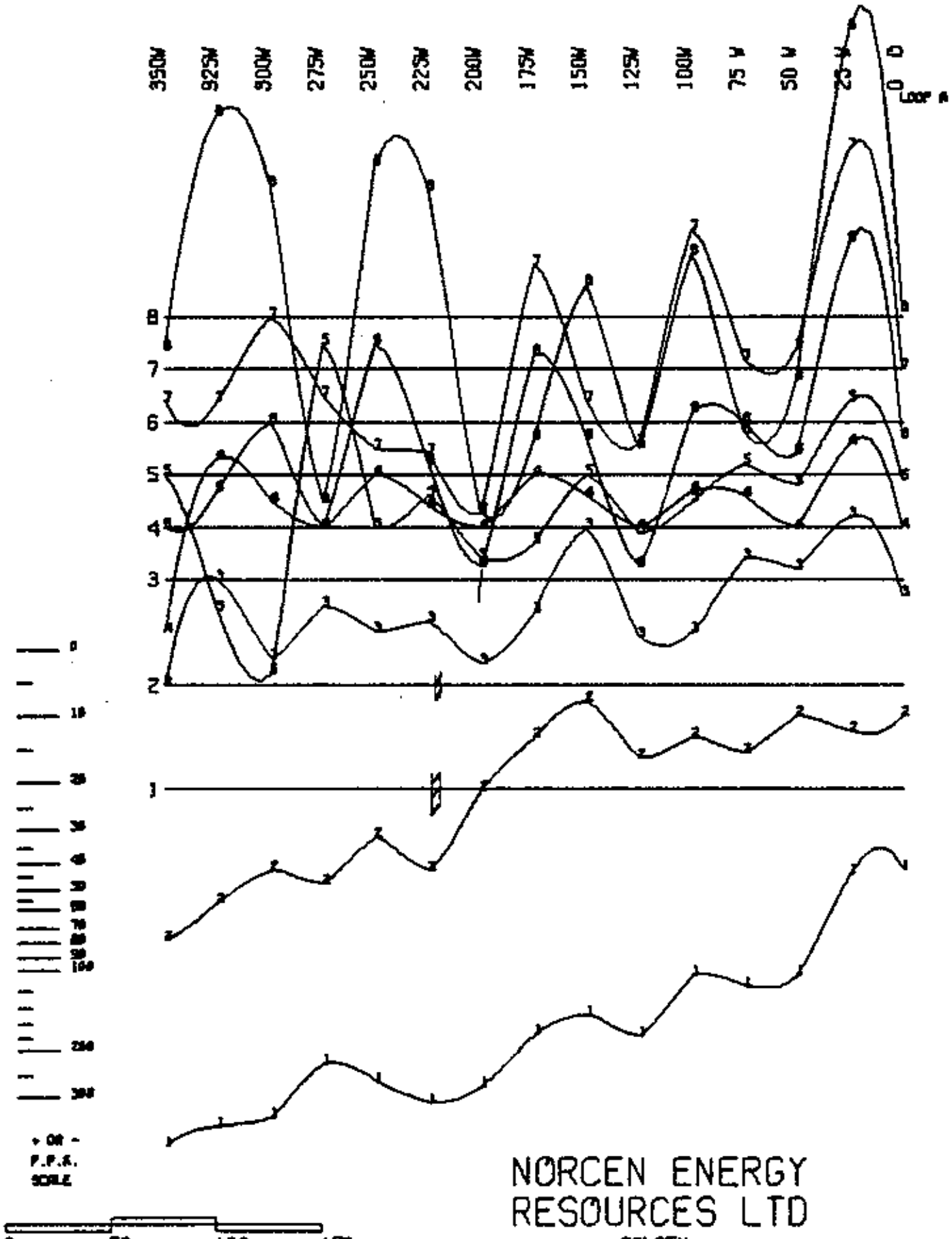
N.T.S. 82 K/15 DATE 24 AUGUST 1979

VECTOR PULSE ELECTROMAGNETOMETER

VERTICAL COMPONENT FIG: 52

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

GOLDEN

LINE 250N A

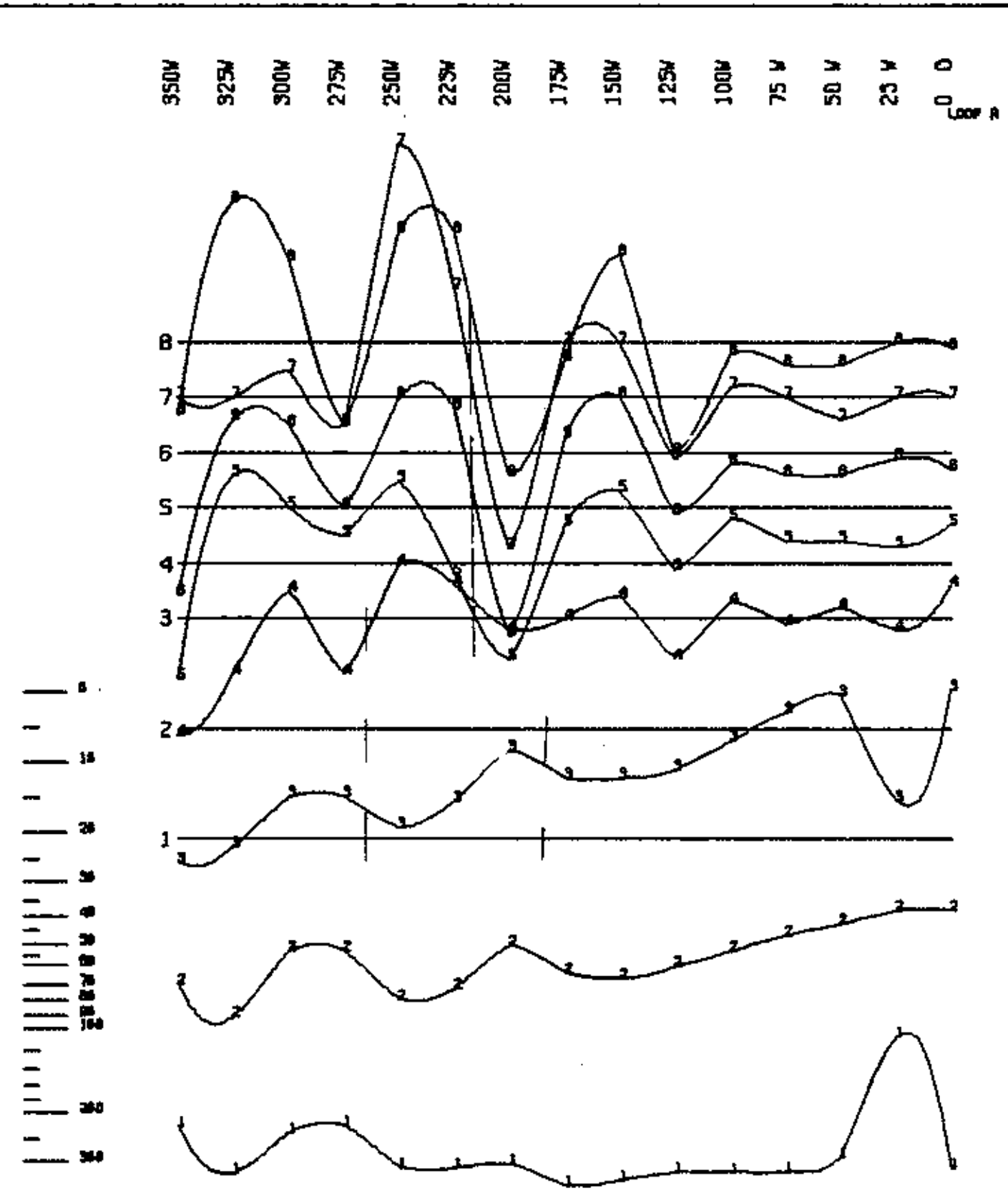
N.T.S. 82 K/15 DATE 24 AUGUST 1978

VECTOR PULSE ELECTROMAGNETOMETER

HORIZONTAL COMPONENT FIG: 53

GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



NORCEN ENERGY RESOURCES LTD

GOLDEN

LINE 250N A

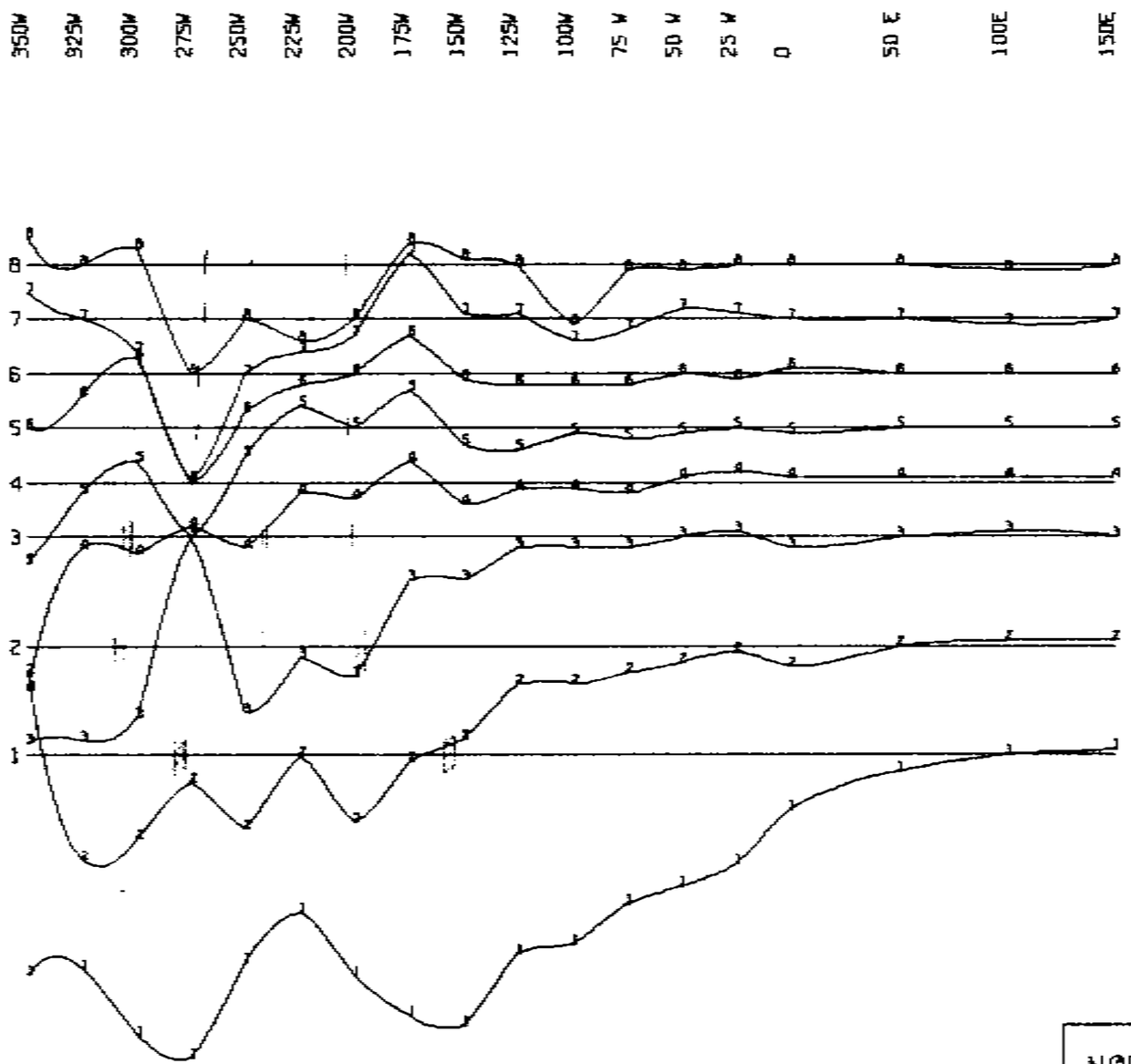
N.T.S. 82 K/15 DATE 24 AUGUST 1979

VECTOR PULSE ELECTROMAGNETOMETER

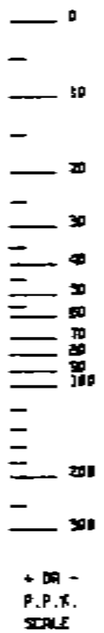
VERTICAL COMPONENT FIG: 54

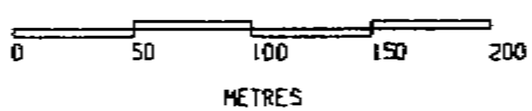
GLEN E. WHITE

GEOPHYSICAL CONSULTING & SERVICES



LOOPR





NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

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VECTOR PULSE ELECTROMAGNETOMETER
HORIZONTAL COMPONENT
LINE 200S B

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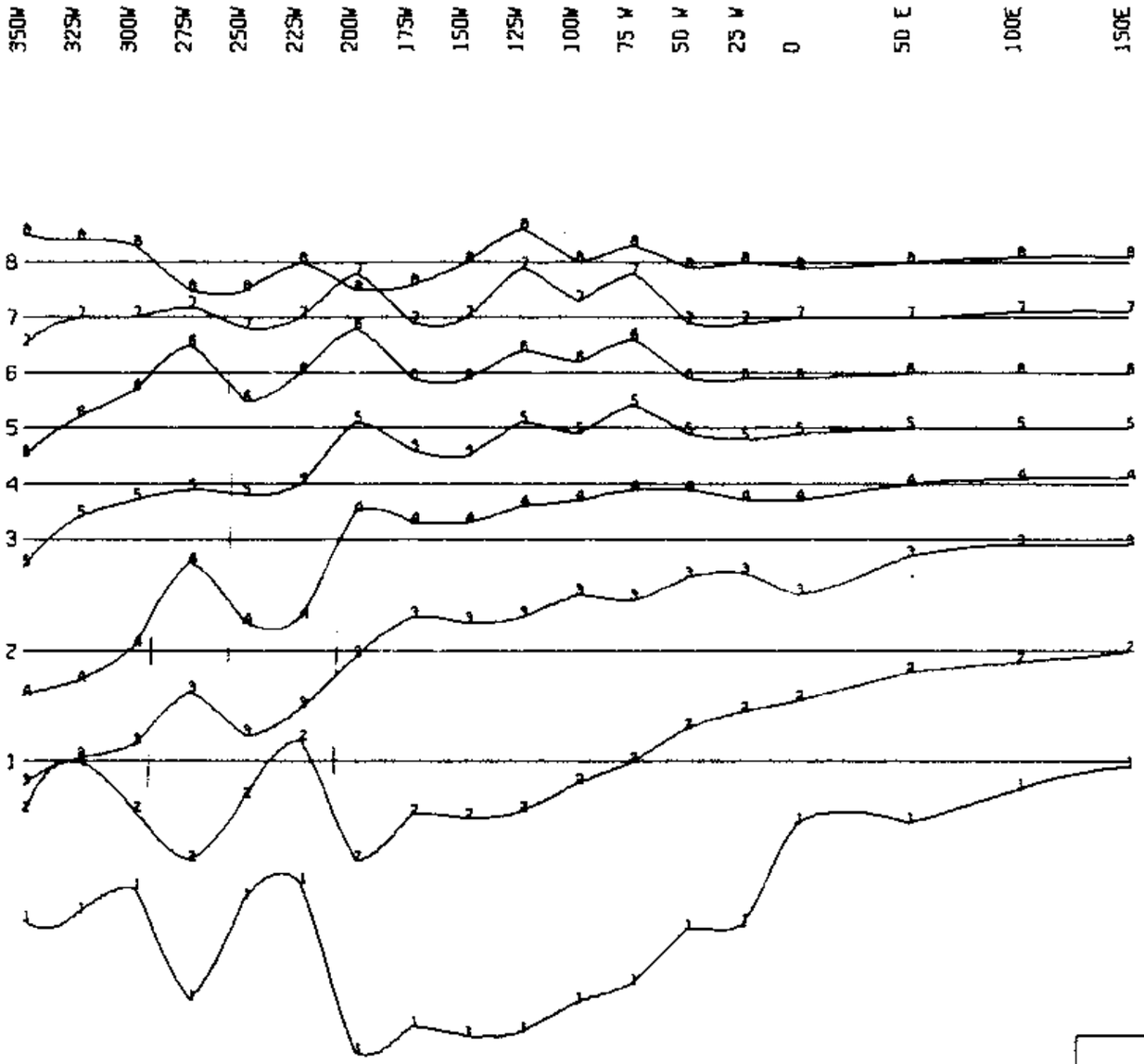
FIG.NO: 17



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VECTOR PULSE ELECTROMAGNETOMETER
VERTICAL COMPONENT
LINE 200S A

GLEN E. WHITE
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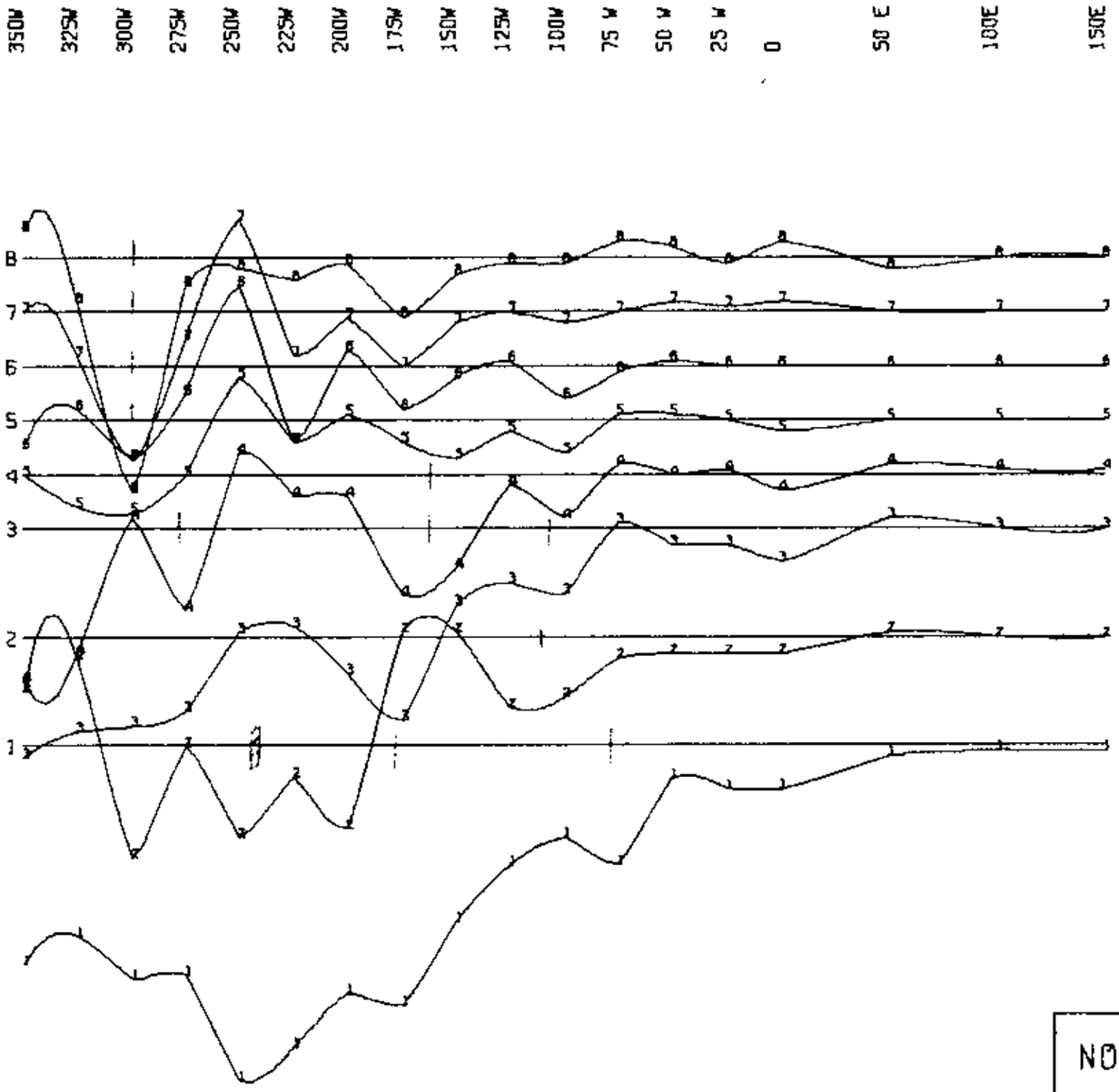
FIG.NO: 18



+ OR -
P.P.K.
SCALE

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

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VECTOR PULSE ELECTROMAGNETOMETER
HORIZONTAL COMPONENT
LINE 150S A

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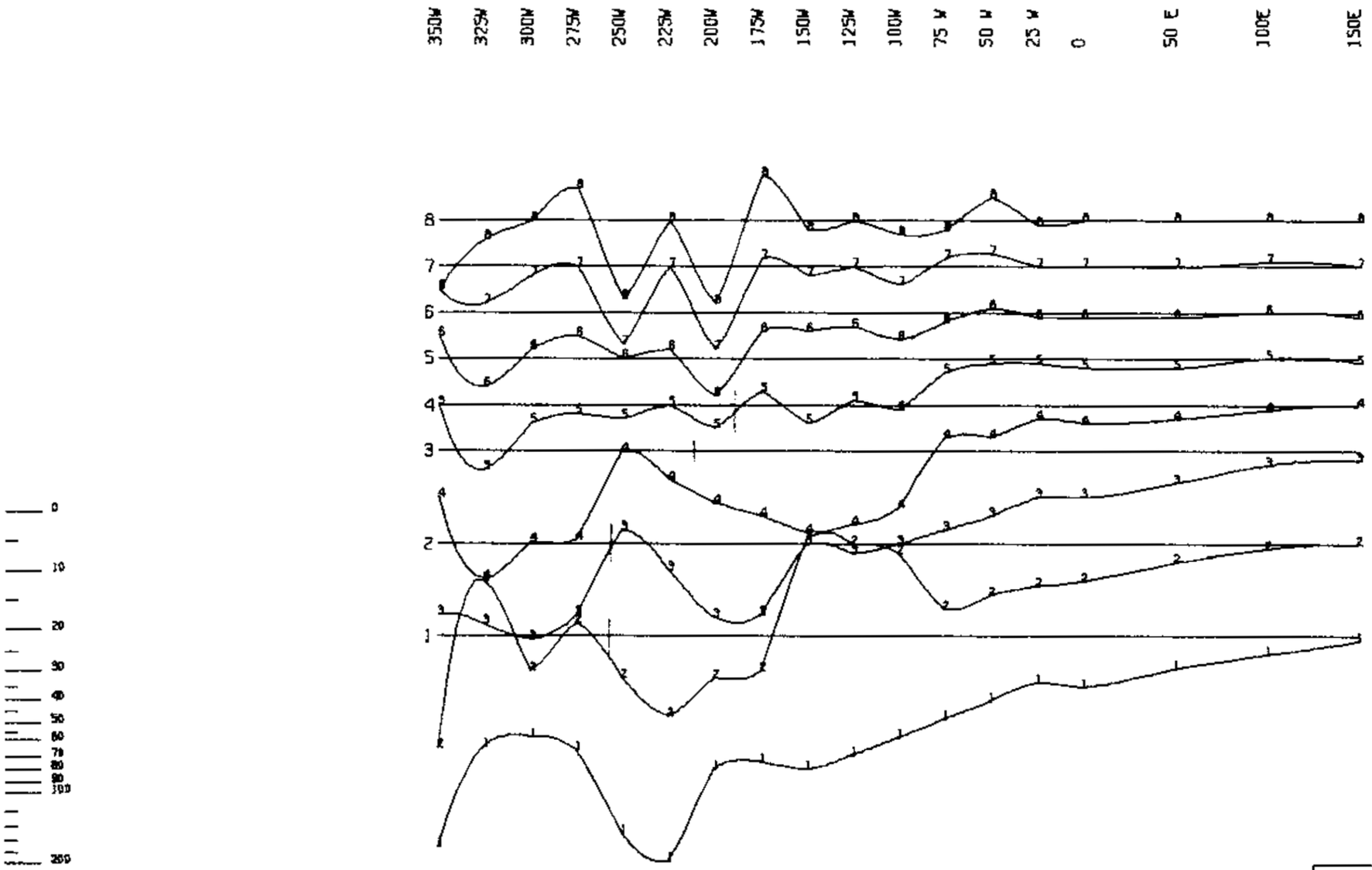
FIG.NO: 21



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

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VECTOR PULSE ELECTROMAGNETOMETER
VERTICAL COMPONENT
LINE 150S A

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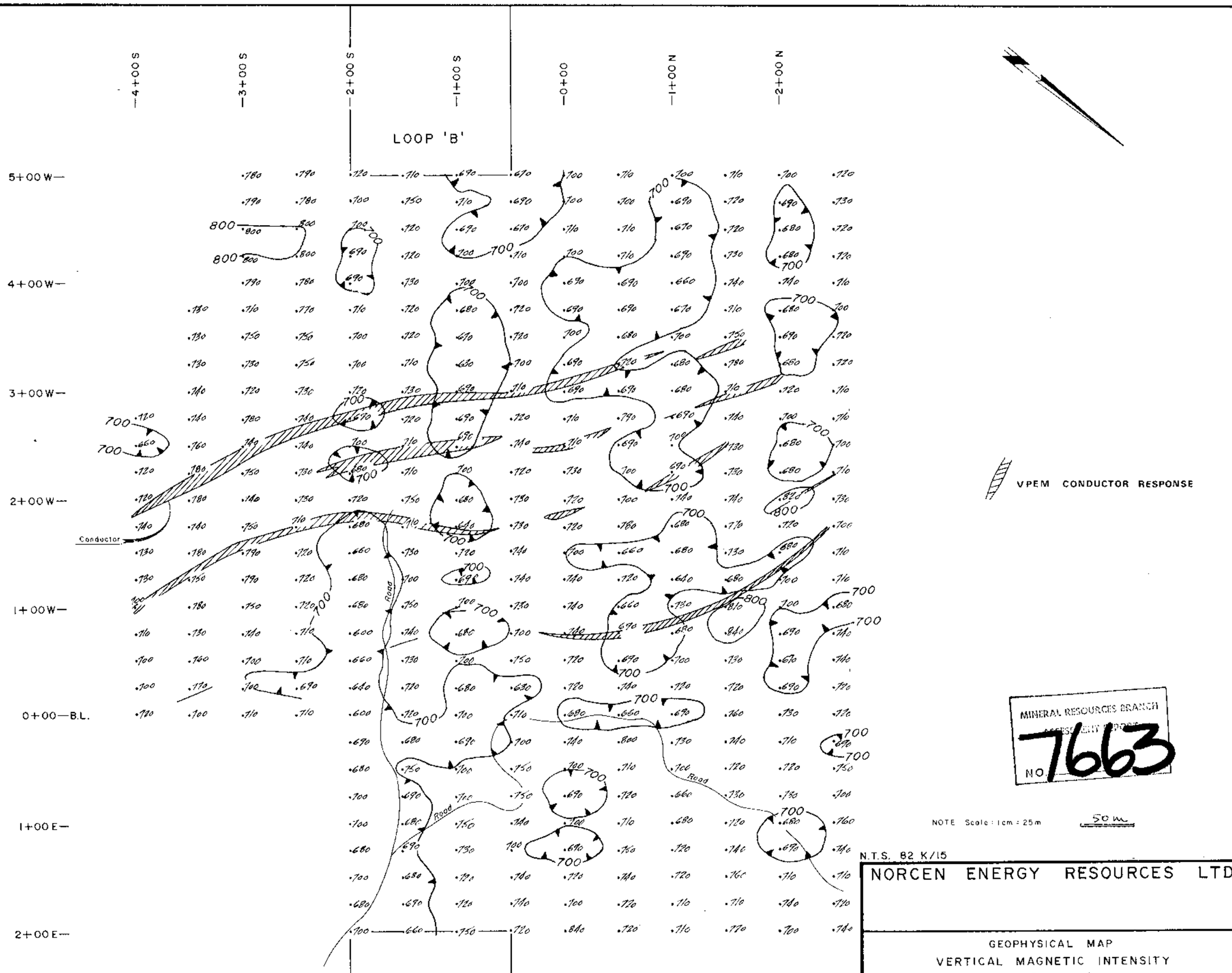
FIG.NO: 22



VPEM CONDUCTOR RESPONSE

NOTE Scale : 1cm = 25m 50m

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GEOPHYSICAL MAP
VERTICAL MAGNETIC INTENSITY
(Gammas)

To Accompany Geophysical Report
Date Sept 4/79
By: GLEN E WHITE - B.Sc. GEOPHYSICIST

PROFESSIONAL ENGINEERS PROVINCE OF BRITISH COLUMBIA GLEN E. WHITE

Glen E. White geophysical consulting & services ltd.

INTERPRETED BY : G.E.W
DRAWN BY : T.M.
CHECKED BY :
DATE : SEPT. 1979
FIG. No. : 2