

*Glen E. White*

GEOPHYSICAL CONSULTING & SERVICES LTD.

9251 Beckwith Road, Richmond, British Columbia, V6X 1V7

Telephone: (604) 273-6962

April 23, 1980

Mr. P. Ronning  
Project Geologist  
Serem Ltd.  
505 - 850 W. Hastings St.  
Vancouver, B. C.

827190

Dear Mr. Ronning:

Pursuant to your request, we have completed a sketch-type analysis of the latest VPEM data from loops N, O, P, Q, R and S as shown on Figure 1. Also sketched in is the conductor in area C. The ROM conductor ( loops R, O and N ) is quite pronounced through to line 800W. From 400W to 0 the response is complicated possibly representing cross-faulting. Diamond drilling should be undertaken on line 1200W. Loop R picks up a very good response from lines 400E to 1200E. Line 400E is an obvious diamond drill target with the best multichannel response obtained to date. The PQ trend appears to be a shear or fault zone. The S conductor appears to be dipping northerly and raking to the east. A well defined vertical component response occurs from 6400E to 7200E. There appears to be a fault between lines 7200E and 7600E as the conductor response occurs as a strong channel 1 response at 810M on line 7200E and is a broad channel 1 anomaly on line 7600E. This zone should also be tested by diamond drilling on line 6400E or 6800E.

Yours truly,

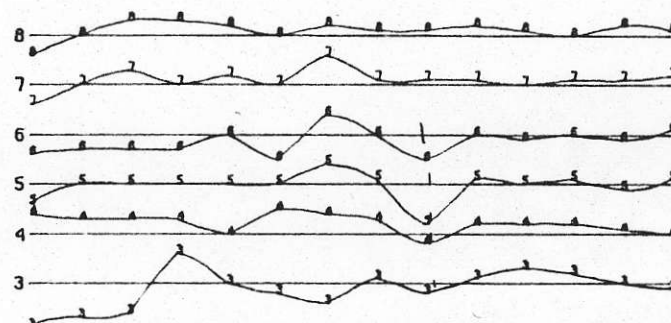


Glen E. White, B.Sc., P. Eng.  
Consulting Geophysicist

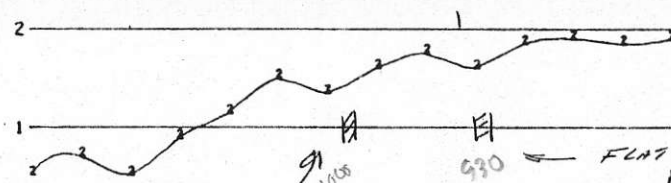
GU/kw

1200 N  
1170 N  
1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
990N  
960N  
930N  
900N  
870N  
840N  
810

LOOPN

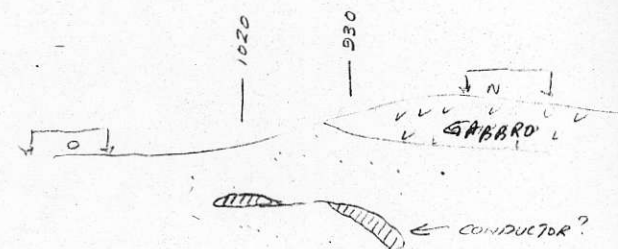


MULTI CHANNEL  
VARIATION

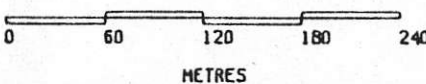


FLATTER TYPE OF  
CONDUCTOR

GOOD RESPONSE  
FROM BOTH LOOPS



OR -  
P.P.M.  
SCALE



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

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MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 1600W N

GLEN E. WHITE  
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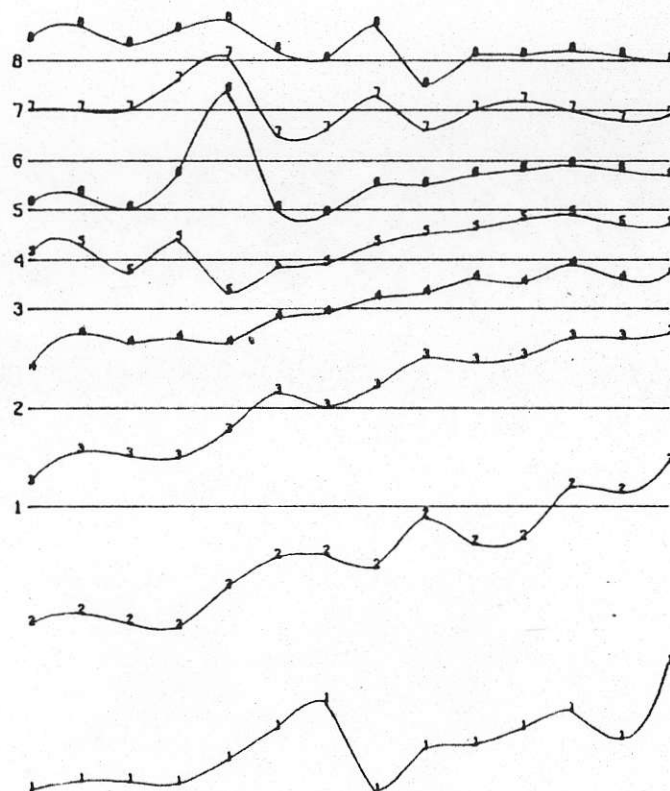
N.T.S. 92-B/13

DATE 10 APRIL 1980

FIG. NO: 2

1200 N  
1170 N  
1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
990N  
960N  
930N  
900N  
870N  
840N  
810N

LODPN



0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
200  
300

OR -  
P.P.K.  
SCALE

0 60 120 180 240  
METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

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VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT

LINE 1600W N

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

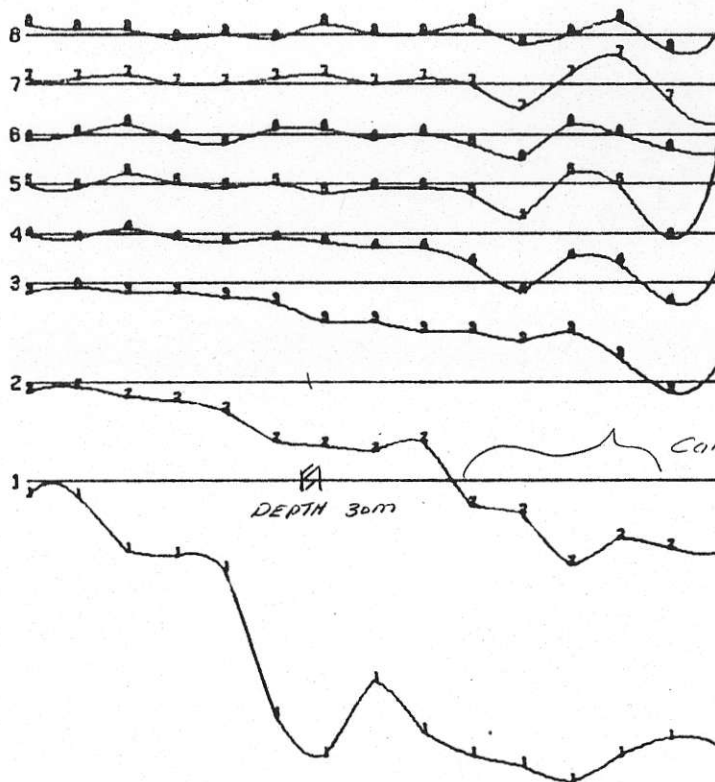
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FIG. NO: 3

LOOP 0

1200 N  
1170 N  
1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
990'1  
960'1  
930'1  
900'1  
870'1  
840'1  
810'1  
780'1



DEPTH 30m

CONDUCTING CHANGE

METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

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VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 1600W 0

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
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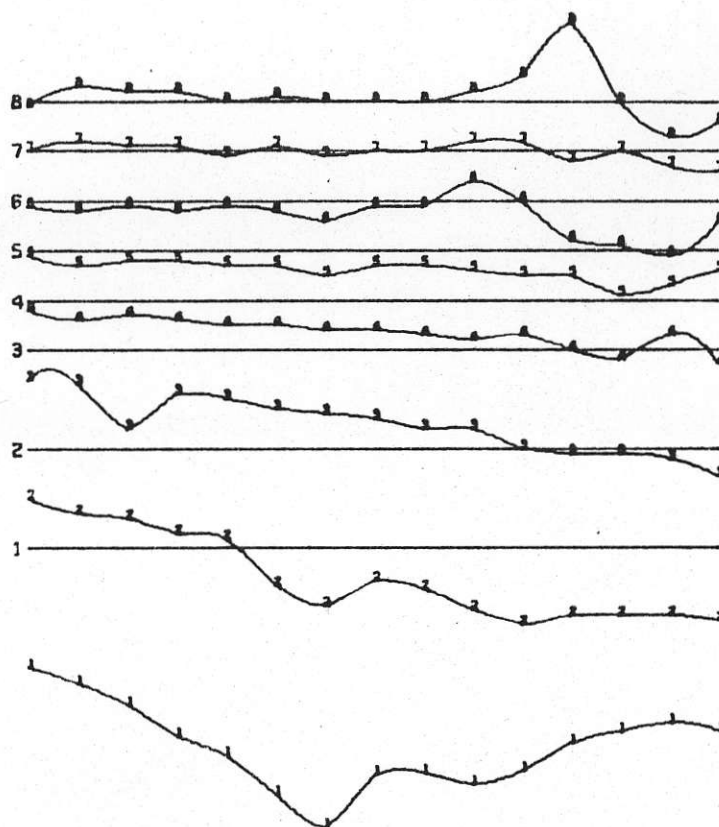
FIG. NO: 4

+ OR -  
P.P.E.  
SCALE

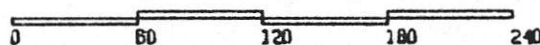


LOOPD

1200 N  
1170 N  
1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
990 N  
960 N  
930 N  
900 N  
870 N  
840 N  
810 N  
780 N



• DR -  
P.P.R.  
SCALE



METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

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VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT

LINE 1600W 0

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GEOPHYSICAL CONSULTING  
& SERVICES LTD.

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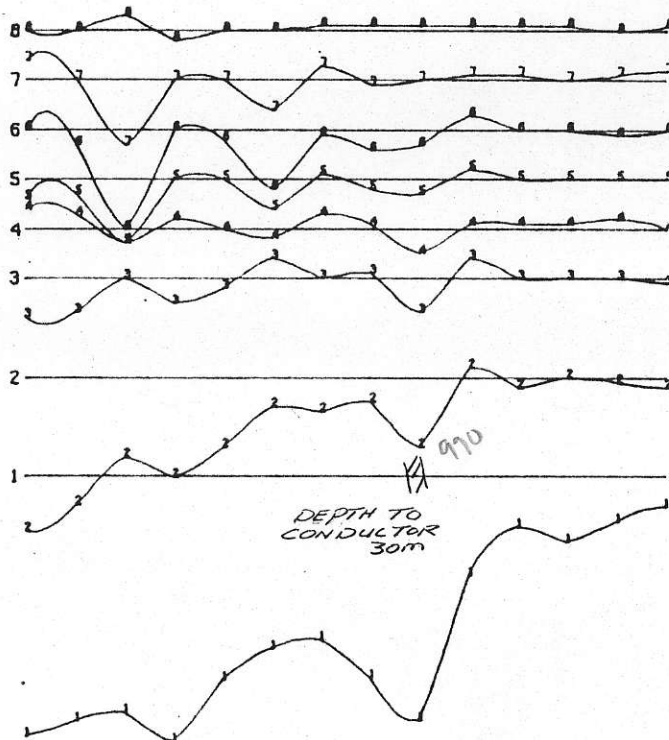
DATE 10 APRIL 1988

FIG. NO:

5

1230 N  
1200 N  
1170 N  
1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
990 N  
960 N  
930 N  
900 N  
870 N  
840 N

LOOPN



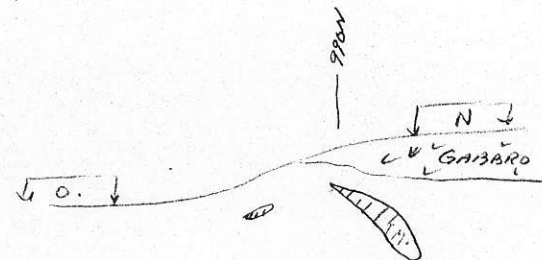
0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
200  
300

+ OR -  
P.P.K.  
SCALE

0 60 120 180 240  
METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.N.



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VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 1200W N

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

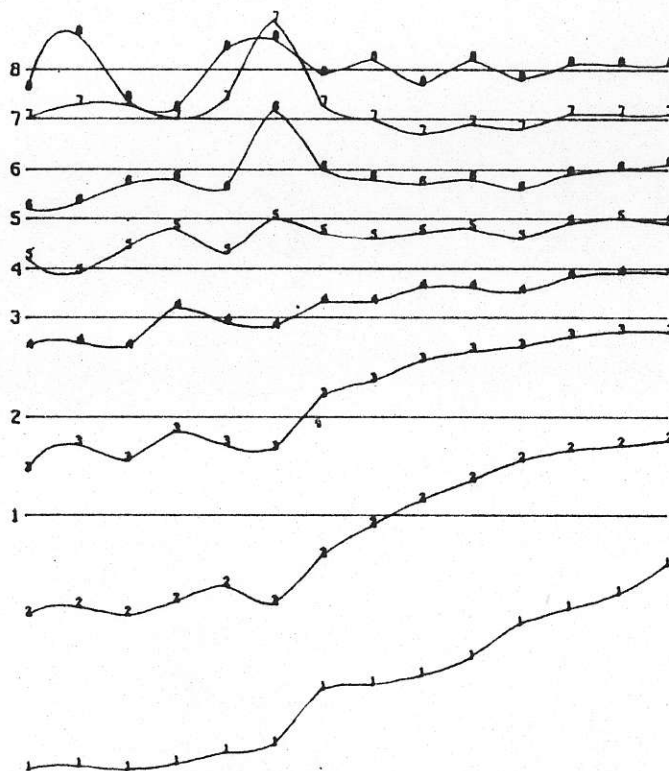
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FIG.NO: 6

1230 N  
1200 N  
1170 N  
1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
990N  
960N  
930N  
900N  
870N  
840N

LOOPN



0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
200  
300

OR -  
P.P.N.  
SCALE

0 60 120 180 240  
METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

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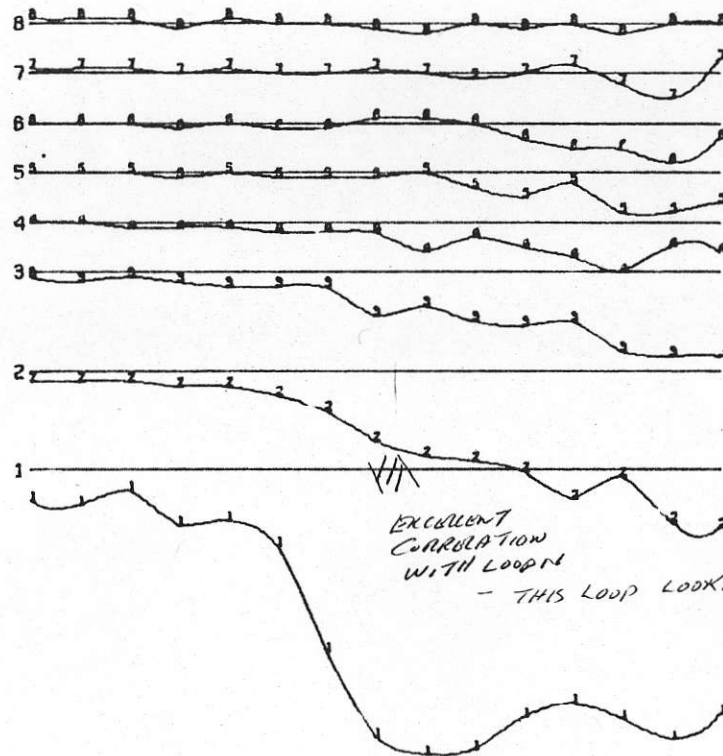
VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT  
LINE 1200W N

GLEN E. WHITE  
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DATE 10 APRIL 1966  
FIG.NO: 7

LOOP 0

1200 N  
1170 N  
1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
990 N  
960 N  
930 N  
900 N  
870 N  
840 N  
810 N  
780 N



EXCELLENT  
CORRELATION  
WITH LOOPS

- THIS LOOP LOOKING DEEPER.

0 60 120 180 240

METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

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VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 1200W 0

GLEN E. WHITE  
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DATE 10 APRIL 1980

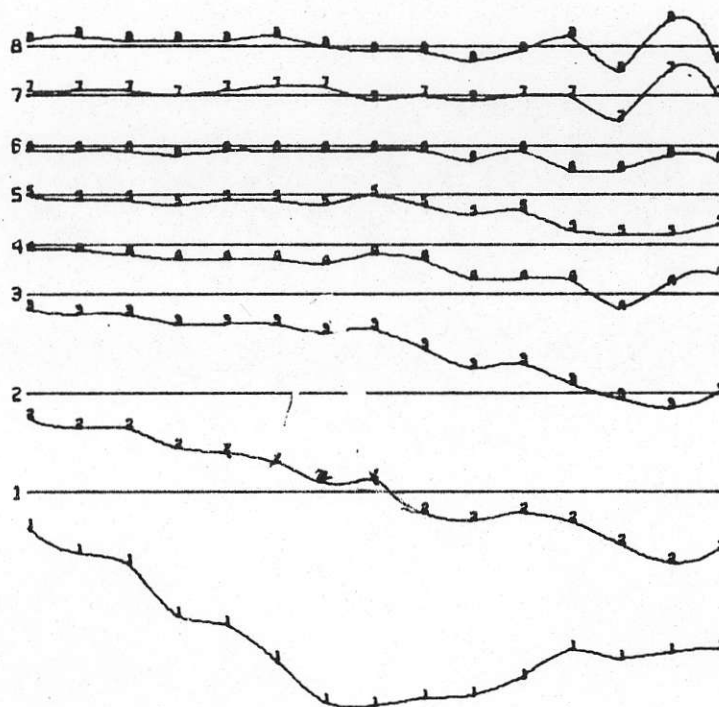
FIG. NO: 8

+ ON -  
P.P.M.  
SCALE

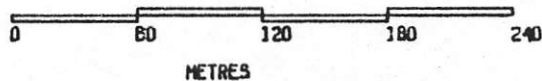


LOOPD

1200 N  
1170 N  
1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
990N  
960N  
930N  
900N  
870N  
840N  
810N  
780N



+ OR -  
P.P.K.  
SCALE



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

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VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT  
LINE 1200W 0

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

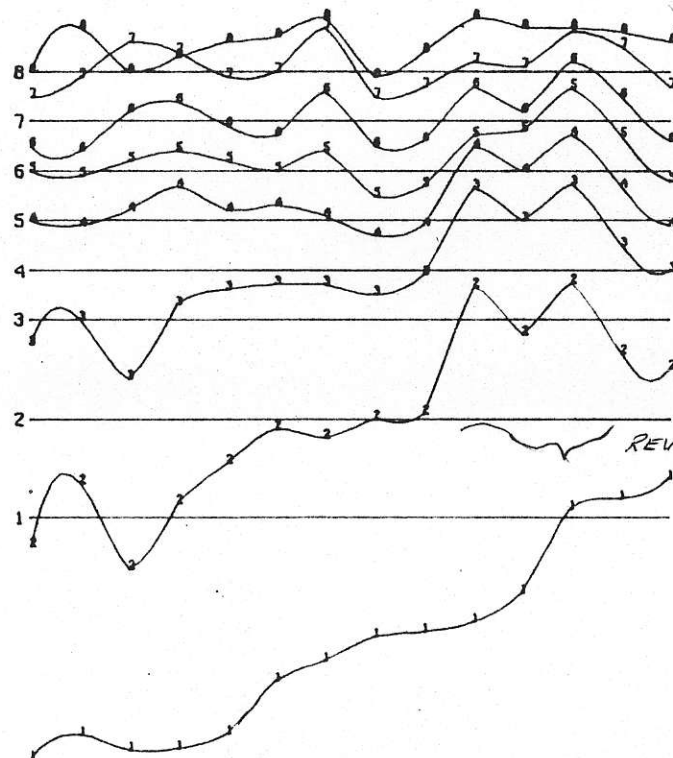
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DATE 10 APRIL 1980

FIG. NO: 9

1290 N  
1260 N  
1230 N  
1200 N  
1170 N  
1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
990N  
960N  
930N  
900N

LOOPN



REVERSE SECONDARY FIELD  
CURRENT FLOW

0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
150  
200  
300

+ OR -  
P.P.N.  
SCALE

0 60 120 180 240  
METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.N.

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VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 800W N

GLEN E. WHITE  
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& SERVICES LTD.

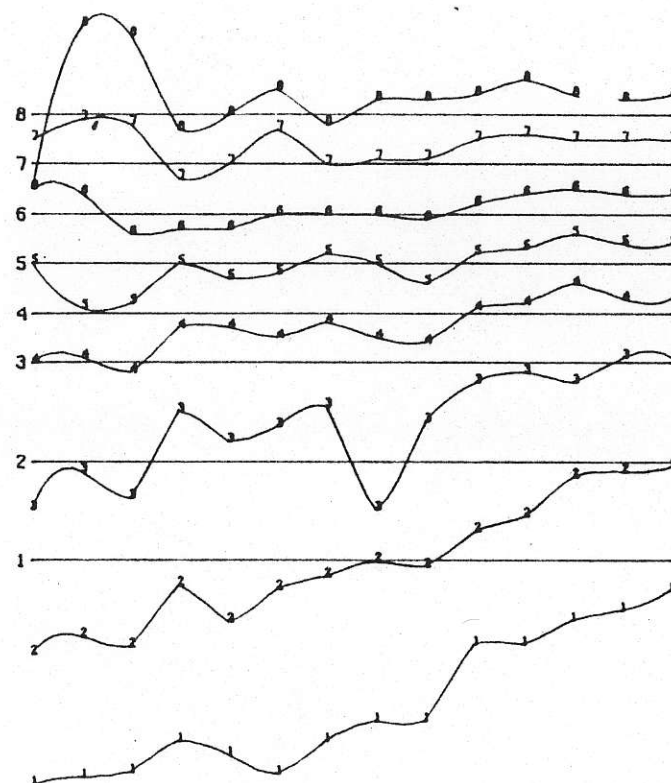
N.T.S. 92-B/13

DATE 10 APRIL 1980

FIG. NO: 10

1290 N  
1260 N  
1230 N  
1200 N  
1170 N  
1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
990 N  
960 N  
930 N  
900 N

LOOPN



0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
110  
120  
130  
140  
150  
160  
170  
180  
190  
200  
210  
220  
230  
240  
250  
260  
270  
280  
290  
300

+ OR -  
P.P.K.  
SCALE

0 60 120 180 240  
METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

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MT. SICKER PROJECT

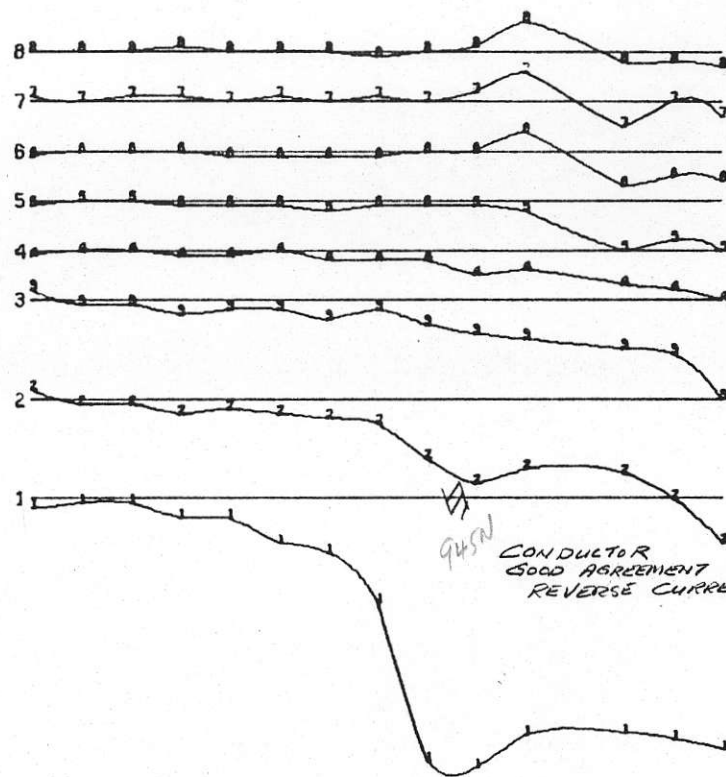
VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT  
LINE 800W N

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

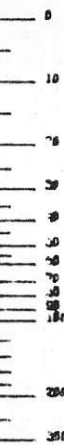
N.T.S. 92-B/13  
DATE 10 APRIL 1986  
FIG.NO: //

LOOP 0

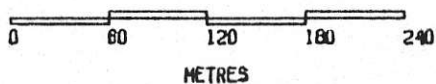
1206 N 1170 N 1140 N 1110 N 1080 N 1050 N 1020 N 990N 960N 930N 900N 870N 840N 810N 780N



CONDUCTOR  
GOOD AGREEMENT WITH  
REVERSE CURRENT LOOP N



• OR -  
P.P.S.  
SCALE



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

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VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 800W 0

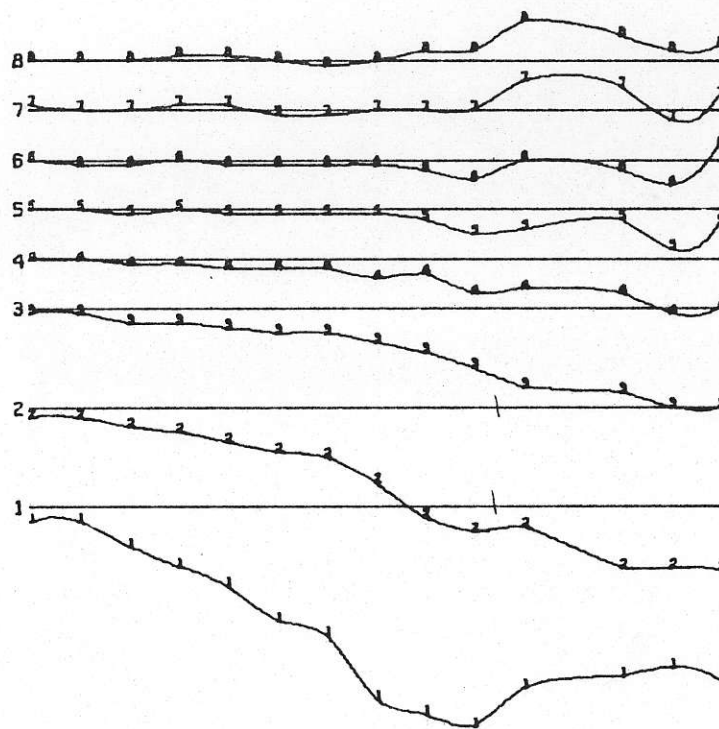
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DATE 10 APRIL 1990

FIG. NO: 12

LOOPD

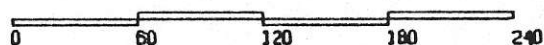
1200 N  
1170 N  
1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
990W  
960W  
930W  
900W  
840W  
810W  
780W



WEAK  
TWO CHANNEL  
CROSSOVER



+ OR -  
P.P.R.  
SCALE



METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

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VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT

LINE 800W 0

GLEN E. WHITE  
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& SERVICES LTD.

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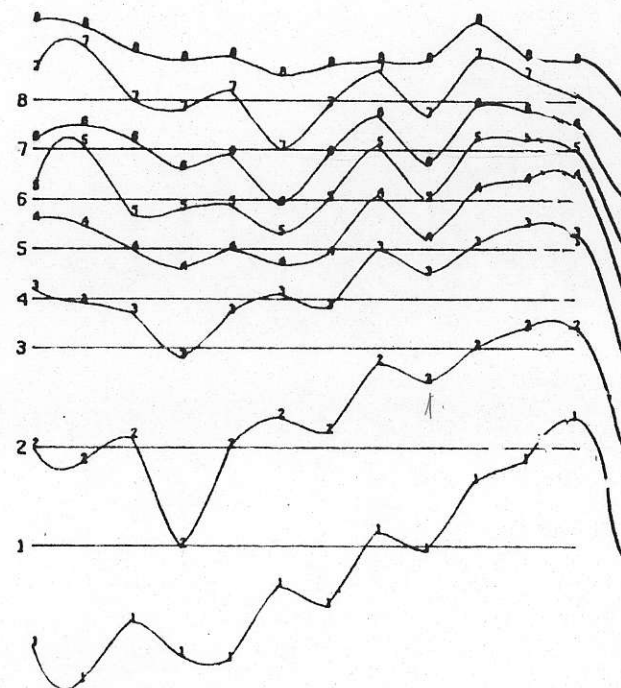
DATE 10 APRIL 1988

FIG.NO: 13



1200 N  
1170 N  
1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
990 N  
960 N  
930 N  
900 N  
870 N

LOOPN



NOTE ABNORMAL HIGH + VALUES  
CLOSE TO LOOP WOULD SUGGEST  
A GOOD FLAT CONDUCTOR AT  
DEPTH - VERTICAL COMPONENT  
GIVES A SMALL CROSSOVER



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.N.

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VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 400W N

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

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DATE 10 APRIL 1980

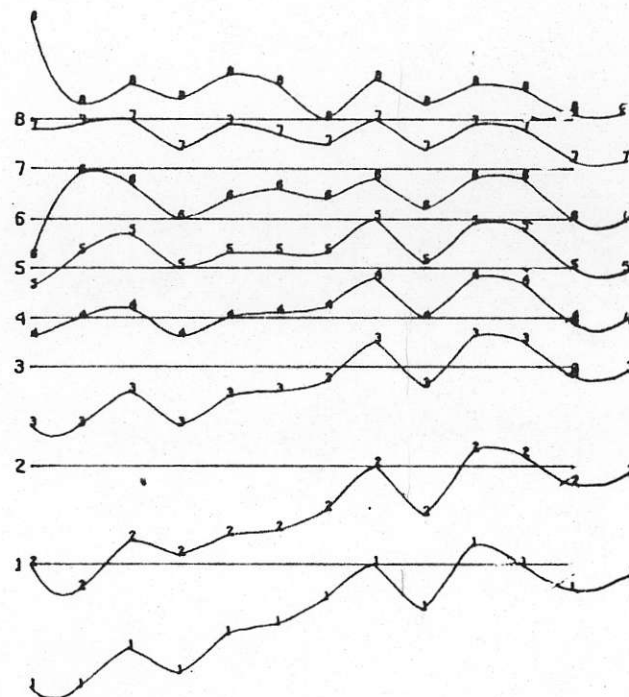
FIG. NO: 14

0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
110  
120  
130  
140  
150  
160  
170  
180  
190  
200  
210  
220  
230  
240  
250  
260  
270  
280  
290  
300

OR -  
P.P.N.  
SCALE

1200 N  
1170 N  
1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
990 N  
960 N  
930 N  
900 N  
870 N

LOOPN



0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
110  
120  
130  
140  
150  
160  
170  
180  
190  
200  
210  
220  
230  
240  
250  
260  
270  
280  
290  
300

OR -  
P.P.K.  
SCALE

0 60 120 180 240  
METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.N.

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VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT  
LINE 400W N

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

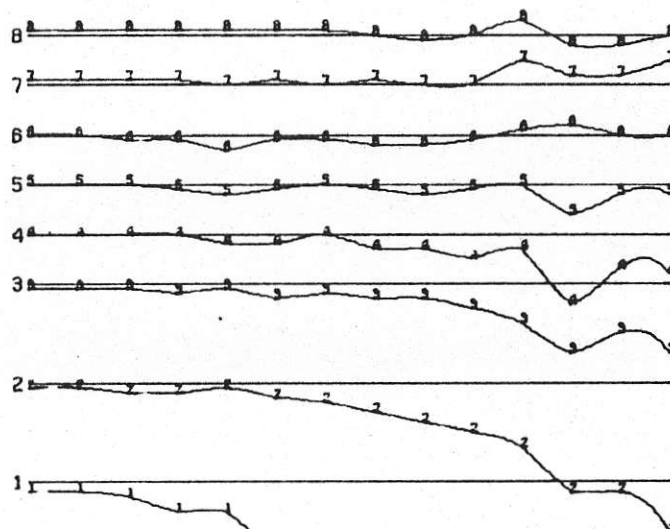
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DATE 10 APRIL 1980

FIG.NO: 15

LOOP 0

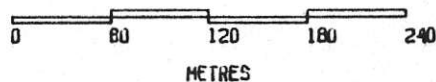
1170 N 1140 N 1110 N 1080 N 1050 N 1020 N 990 N 960 N 930 N 900 N 870 N 840 N 810 N 780 N



CONDUCTIVE RESPONSE IN  
AREA OF POSITIVE  
VALUES FROM LOOP N



+ 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 400W 0

GLEN E. WHITE  
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& SERVICES LTD.

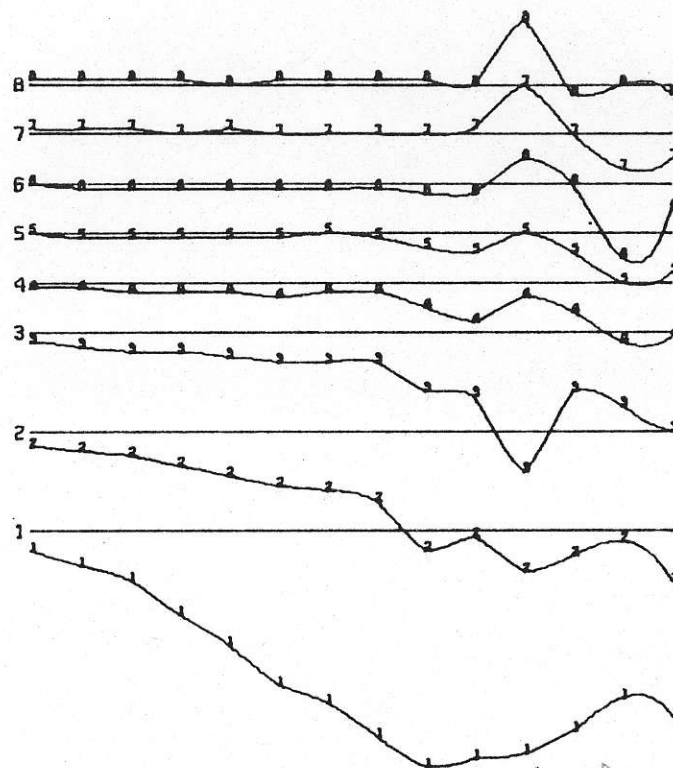
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DATE 18 APRIL 1999

FIG. NO: 16

LOOPD

1170 N 1140 N 1110 N 1080 N 1050 N 1020 N 990N 960N 930N 900N 870N 840N 810N 780N



↑ 870  
Good CROSSOVER  
CHANNEL 1.

0 60 120 180 240

METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

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VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT  
LINE 400W 0

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

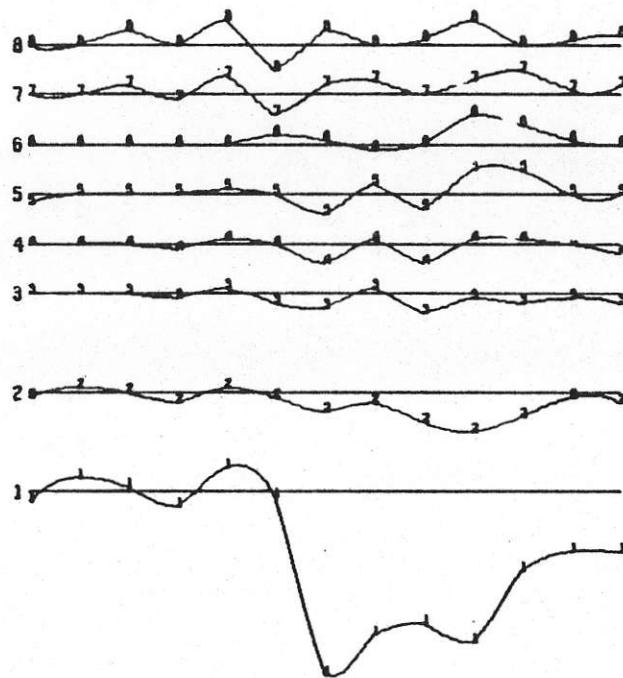
N.T.S. 92-B/13  
DATE 10 APRIL 1988  
FIG.NO: 17

0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
200  
300

+ OR -  
P.P.K.  
SCALE

LOOPR

1920 N  
1290 N  
1260 N  
1230 N  
1200 N  
1170 N  
1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
990N  
960N



0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
110  
120  
130  
140  
150  
160  
170  
180  
190  
200  
210  
220  
230  
240  
250  
260  
270  
280  
290  
300

+ OR -  
P.P.S.  
SCALE

0 60 120 180 240  
METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

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MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 400W R

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

M.T.S. 92-8/13

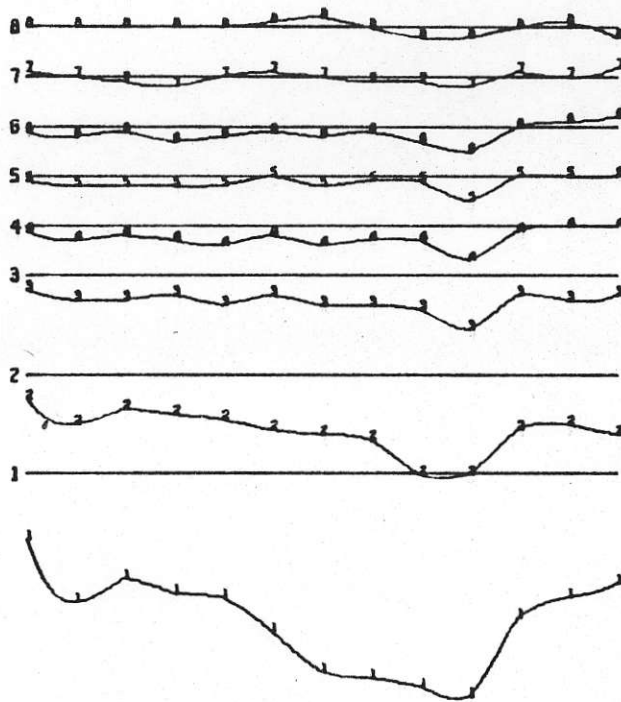
DATE 16 APRIL 1980

FIG. NO. 18

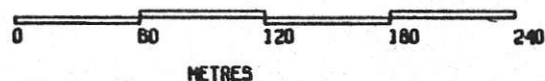


LOOPR

1320 N  
1290 N  
1260 N  
1230 N  
1200 N  
1170 N  
1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
990N  
960N



+ OR -  
P.P.S.  
SCALE



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT  
LINE 400W R

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

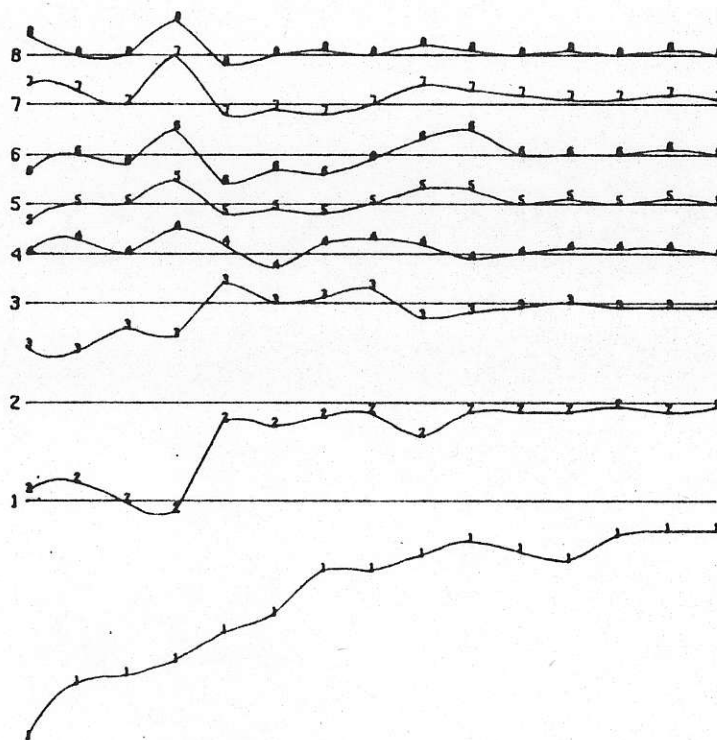
N.T.S. 92-8/13

DATE 18 APRIL 1980

FIG.NO: 10

1290 N  
1260 N  
1230 N  
1200 N  
1170 N  
1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
990N  
960N  
930N  
900N  
870N

LDDPN



NOTE  
DECREASED  
+ HORIZONTAL  
COMPONENT VALUES  
~  
CONDUCTOR AT DEENERGIZATION  
POSITION?

0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
200  
300

\* OR -  
P.P.M.  
SCALE

0 60 120 180 240  
METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

S E R E M LTD.

MT. SICKER PROJECT

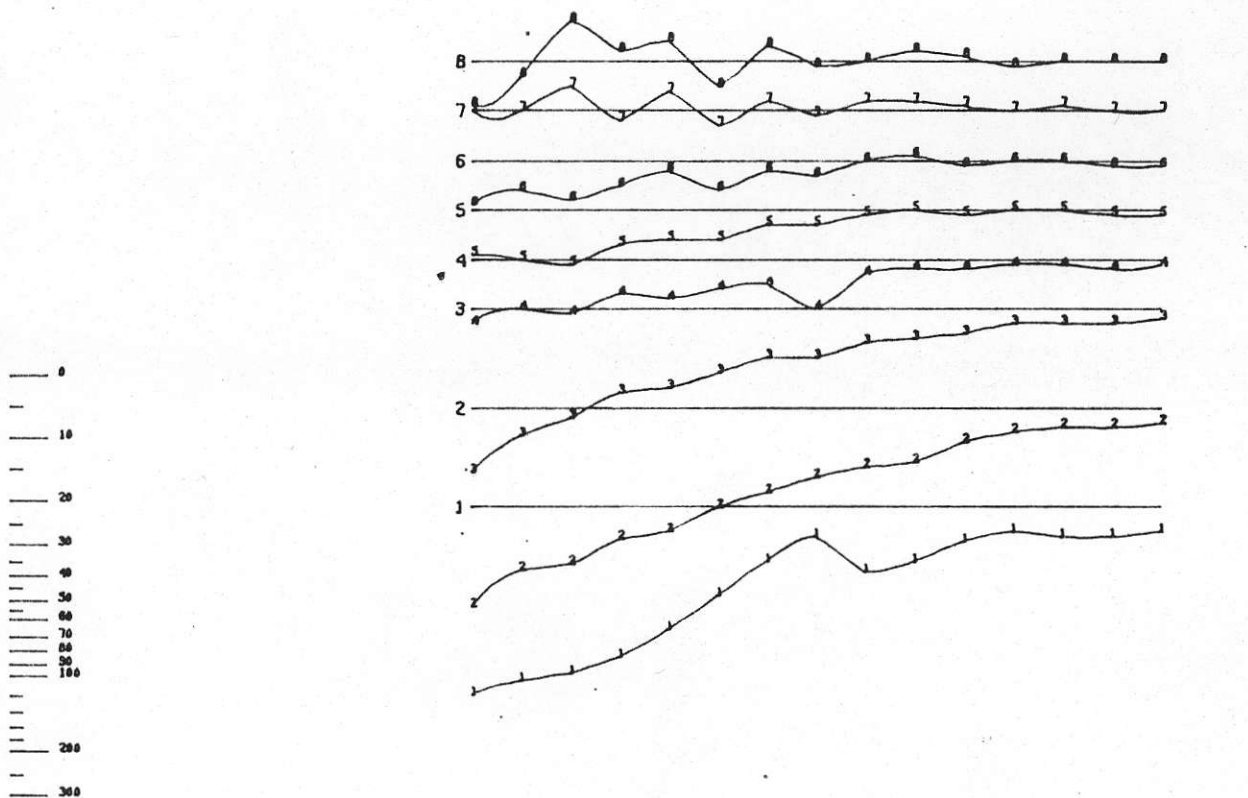
VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 00W N

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

N.T.S. 92-B/13  
DATE 10 APRIL 1980  
FIG. NO: 20

1290 N  
1260 N  
1230 N  
1200 N  
1170 N  
1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
990N  
960N  
930N  
900N  
870N

LOOPN



+ OR -  
P.P.K.  
SCHLE

0 60 120 180 240  
METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

S E R E M LTD.

MT. SICKER PROJECT

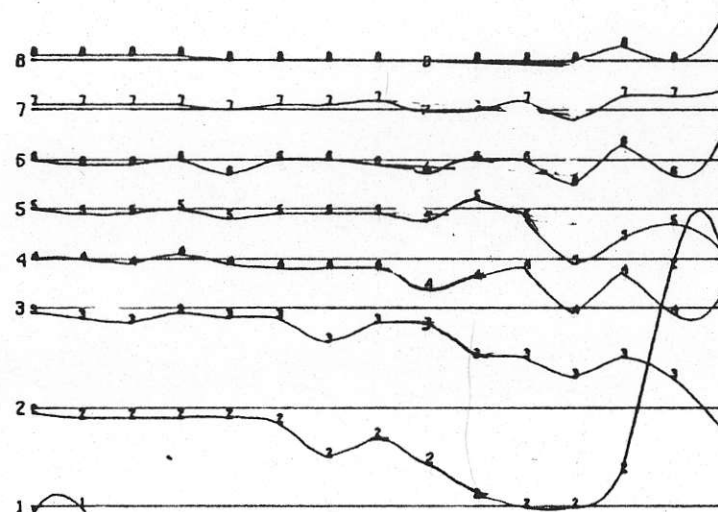
VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT  
LINE 00W N

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

N.T.S. 92-B/13  
DATE 10 APRIL 1960  
FIG. NO: 21

1230 N  
1200 N  
1170 N  
1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
990 N  
960 N  
930 N  
900 N  
870 N  
840 N  
810 N

LOOPD



BROAD CONDUCTIVE RESPONSE WITH  
CROSSOVER. - SUGGESTS SOURCE  
RAISING TO THE EAST WITH  
RESPECT TO TOPOGRAPHY

0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
200  
300

+ OR -  
P.P.M.  
SCALE

0 60 120 180 240  
METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 000W 0

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

N.T.S. 92-B/13

DATE 10 APRIL 1980

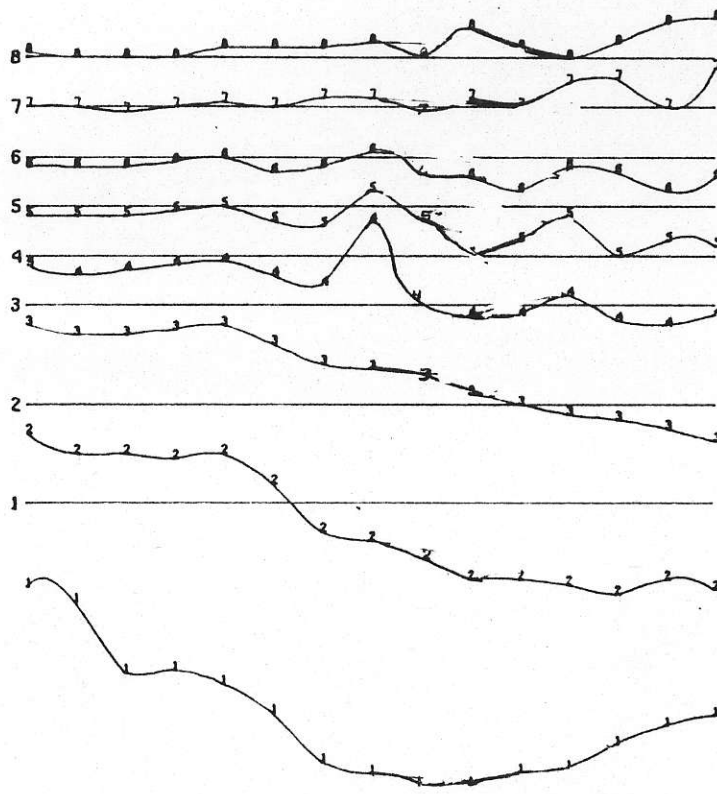
FIG. NO: 22

LOOP 0

1230 N  
1200 N  
1170 N  
1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
9%  $\sim$   
960N  
930N  
900N  
870N  
840N  
810N

0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
200  
300

\* OR -  
P.P.H.  
SCALE



0 60 120 160 240  
METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT

LINE 000W 0

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

N.T.S. 92-B/13

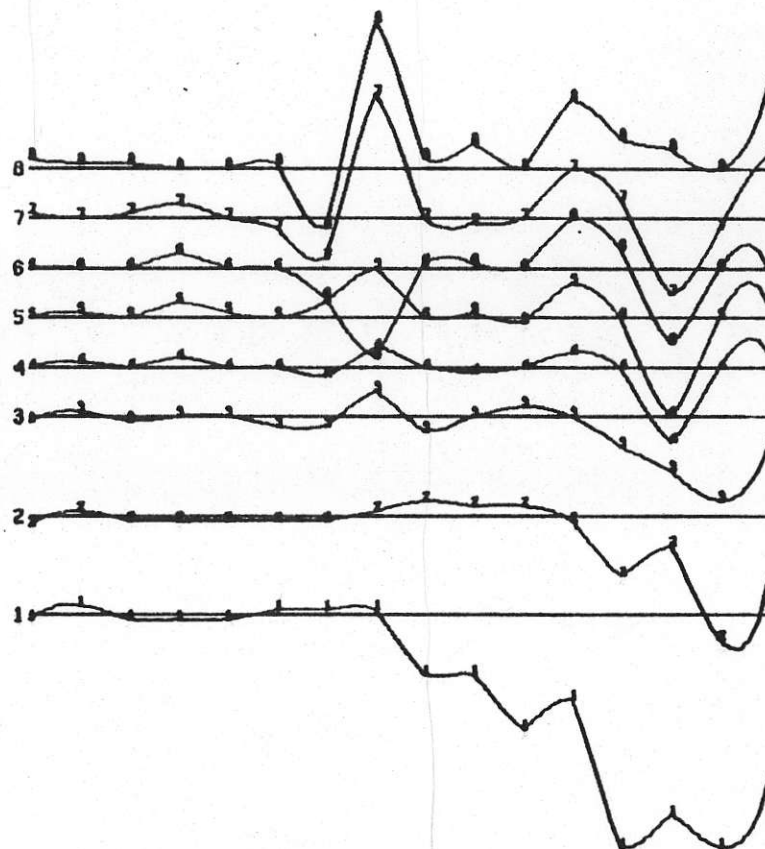
DATE 10 APRIL 1980

FIG.NO: 23



LOOPR

1320 N  
1280 N  
1260 N  
1250 N  
1200 N  
1170 N  
1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
980N  
960N  
930N  
900N  
870N



SAME SHAPED  
CURVE AS FIG 22



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

S E R E M L T D .

MT. SICKER PROJECT

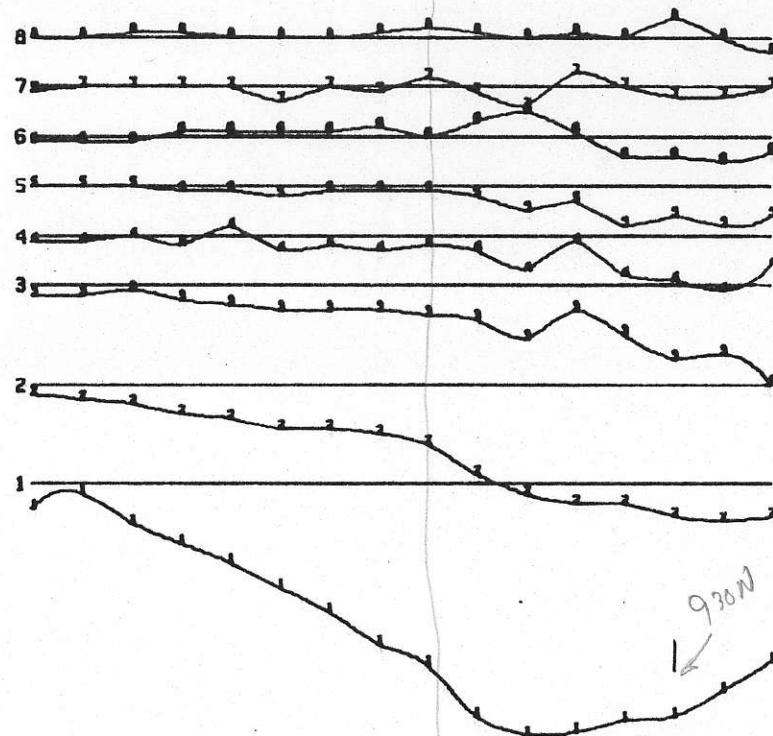
VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 00V R

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

N.T.S. 92-8/13  
DATE: 10 APRIL 1989  
FIG. NO: 24

LOOPR

1320 N  
1280 N  
1260 N  
1250 N  
1200 N  
1170 N  
1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
980N  
960N  
930N  
900N  
870N



930N  
BROAD  
CROSSOVER

0 60 120 180 240  
METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

S E R E M LTD.

MT. SJOKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT  
LINE 00V R

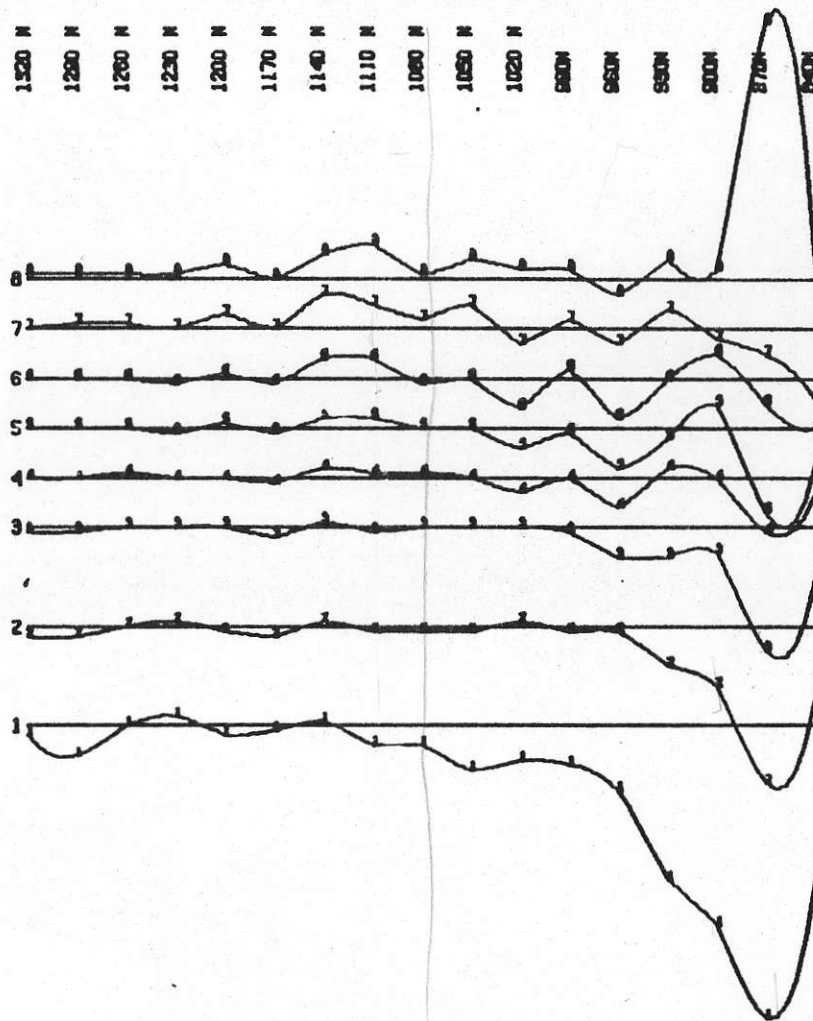
GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

M.T.S. 92-8/13

DATE 10 APRIL 1980

FIG. NO: 25

LOOPR



STRONG MULTIPLE  
CHANNEL RESPONSE  
OBVIOUS DRILL TARGET



P.P.S.  
SCALE



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.N.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 400E R

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

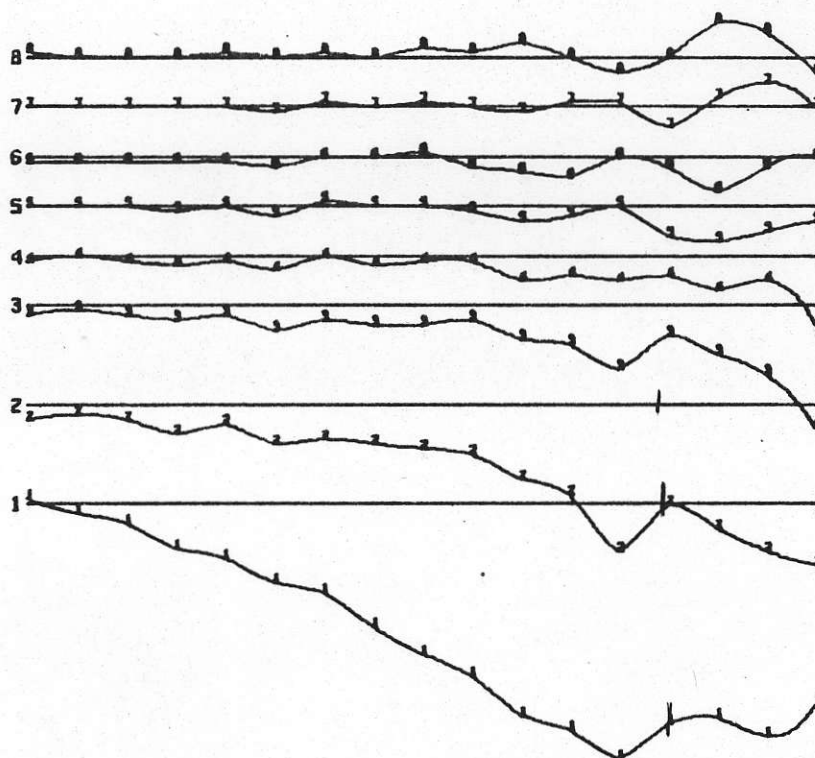
N.T.S. 92-8/13

100% 10 APRIL 1999

FIG. NO. 26

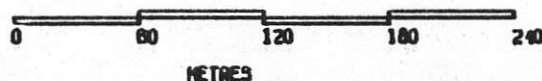
LOOPR

1320 N 1280 N 1260 N 1250 N 1200 N 1170 N 1140 N 1110 N 1080 N 1050 N 1020 N 980N 960N 950N 900N 870N 840N



COMPLEX CROSSOVER  
SUGGEST FLAT  
DIP TO THE SOUTH

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 600 610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 800 810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990 1000 1010 1020 1030 1040 1050 1060 1070 1080 1090 1100 1110 1120 1130 1140 1150 1160 1170 1180 1190 1200 1210 1220 1230 1240 1250 1260 1270 1280 1290 1300 1310 1320 1330 1340 1350 1360 1370 1380 1390 1400 1410 1420 1430 1440 1450 1460 1470 1480 1490 1500 1510 1520 1530 1540 1550 1560 1570 1580 1590 1600 1610 1620 1630 1640 1650 1660 1670 1680 1690 1700 1710 1720 1730 1740 1750 1760 1770 1780 1790 1800 1810 1820 1830 1840 1850 1860 1870 1880 1890 1900 1910 1920 1930 1940 1950 1960 1970 1980 1990 2000 2010 2020 2030 2040 2050 2060 2070 2080 2090 2100 2110 2120 2130 2140 2150 2160 2170 2180 2190 2200 2210 2220 2230 2240 2250 2260 2270 2280 2290 2300 2310 2320 2330 2340 2350 2360 2370 2380 2390 2400 2410 2420 2430 2440 2450 2460 2470 2480 2490 2500 2510 2520 2530 2540 2550 2560 2570 2580 2590 2600 2610 2620 2630 2640 2650 2660 2670 2680 2690 2700 2710 2720 2730 2740 2750 2760 2770 2780 2790 2800 2810 2820 2830 2840 2850 2860 2870 2880 2890 2900 2910 2920 2930 2940 2950 2960 2970 2980 2990 3000 3010 3020 3030 3040 3050 3060 3070 3080 3090 3100 3110 3120 3130 3140 3150 3160 3170 3180 3190 3200 3210 3220 3230 3240 3250 3260 3270 3280 3290 3300 3310 3320 3330 3340 3350 3360 3370 3380 3390 3400 3410 3420 3430 3440 3450 3460 3470 3480 3490 3500 3510 3520 3530 3540 3550 3560 3570 3580 3590 3600 3610 3620 3630 3640 3650 3660 3670 3680 3690 3700 3710 3720 3730 3740 3750 3760 3770 3780 3790 3800 3810 3820 3830 3840 3850 3860 3870 3880 3890 3900 3910 3920 3930 3940 3950 3960 3970 3980 3990 4000 4010 4020 4030 4040 4050 4060 4070 4080 4090 4100 4110 4120 4130 4140 4150 4160 4170 4180 4190 4200 4210 4220 4230 4240 4250 4260 4270 4280 4290 4300 4310 4320 4330 4340 4350 4360 4370 4380 4390 4400 4410 4420 4430 4440 4450 4460 4470 4480 4490 4500 4510 4520 4530 4540 4550 4560 4570 4580 4590 4600 4610 4620 4630 4640 4650 4660 4670 4680 4690 4700 4710 4720 4730 4740 4750 4760 4770 4780 4790 4800 4810 4820 4830 4840 4850 4860 4870 4880 4890 4900 4910 4920 4930 4940 4950 4960 4970 4980 4990 5000 5010 5020 5030 5040 5050 5060 5070 5080 5090 5100 5110 5120 5130 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 5270 5280 5290 5300 5310 5320 5330 5340 5350 5360 5370 5380 5390 5400 5410 5420 5430 5440 5450 5460 5470 5480 5490 5500 5510 5520 5530 5540 5550 5560 5570 5580 5590 5600 5610 5620 5630 5640 5650 5660 5670 5680 5690 5700 5710 5720 5730 5740 5750 5760 5770 5780 5790 5800 5810 5820 5830 5840 5850 5860 5870 5880 5890 5900 5910 5920 5930 5940 5950 5960 5970 5980 5990 6000 6010 6020 6030 6040 6050 6060 6070 6080 6090 6100 6110 6120 6130 6140 6150 6160 6170 6180 6190 6200 6210 6220 6230 6240 6250 6260 6270 6280 6290 6300 6310 6320 6330 6340 6350 6360 6370 6380 6390 6400 6410 6420 6430 6440 6450 6460 6470 6480 6490 6500 6510 6520 6530 6540 6550 6560 6570 6580 6590 6600 6610 6620 6630 6640 6650 6660 6670 6680 6690 6700 6710 6720 6730 6740 6750 6760 6770 6780 6790 6800 6810 6820 6830 6840 6850 6860 6870 6880 6890 6900 6910 6920 6930 6940 6950 6960 6970 6980 6990 7000 7010 7020 7030 7040 7050 7060 7070 7080 7090 7100 7110 7120 7130 7140 7150 7160 7170 7180 7190 7200 7210 7220 7230 7240 7250 7260 7270 7280 7290 7300 7310 7320 7330 7340 7350 7360 7370 7380 7390 7400 7410 7420 7430 7440 7450 7460 7470 7480 7490 7500 7510 7520 7530 7540 7550 7560 7570 7580 7590 7600 7610 7620 7630 7640 7650 7660 7670 7680 7690 7700 7710 7720 7730 7740 7750 7760 7770 7780 7790 7800 7810 7820 7830 7840 7850 7860 7870 7880 7890 7900 7910 7920 7930 7940 7950 7960 7970 7980 7990 8000 8010 8020 8030 8040 8050 8060 8070 8080 8090 8100 8110 8120 8130 8140 8150 8160 8170 8180 8190 8200 8210 8220 8230 8240 8250 8260 8270 8280 8290 8300 8310 8320 8330 8340 8350 8360 8370 8380 8390 8400 8410 8420 8430 8440 8450 8460 8470 8480 8490 8500 8510 8520 8530 8540 8550 8560 8570 8580 8590 8600 8610 8620 8630 8640 8650 8660 8670 8680 8690 8700 8710 8720 8730 8740 8750 8760 8770 8780 8790 8800 8810 8820 8830 8840 8850 8860 8870 8880 8890 8900 8910 8920 8930 8940 8950 8960 8970 8980 8990 9000 9010 9020 9030 9040 9050 9060 9070 9080 9090 9100 9110 9120 9130 9140 9150 9160 9170 9180 9190 9200 9210 9220 9230 9240 9250 9260 9270 9280 9290 9300 9310 9320 9330 9340 9350 9360 9370 9380 9390 9400 9410 9420 9430 9440 9450 9460 9470 9480 9490 9500 9510 9520 9530 9540 9550 9560 9570 9580 9590 9600 9610 9620 9630 9640 9650 9660 9670 9680 9690 9700 9710 9720 9730 9740 9750 9760 9770 9780 9790 9800 9810 9820 9830 9840 9850 9860 9870 9880 9890 9900 9910 9920 9930 9940 9950 9960 9970 9980 9990 10000



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.N.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT  
LINE 400E R

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

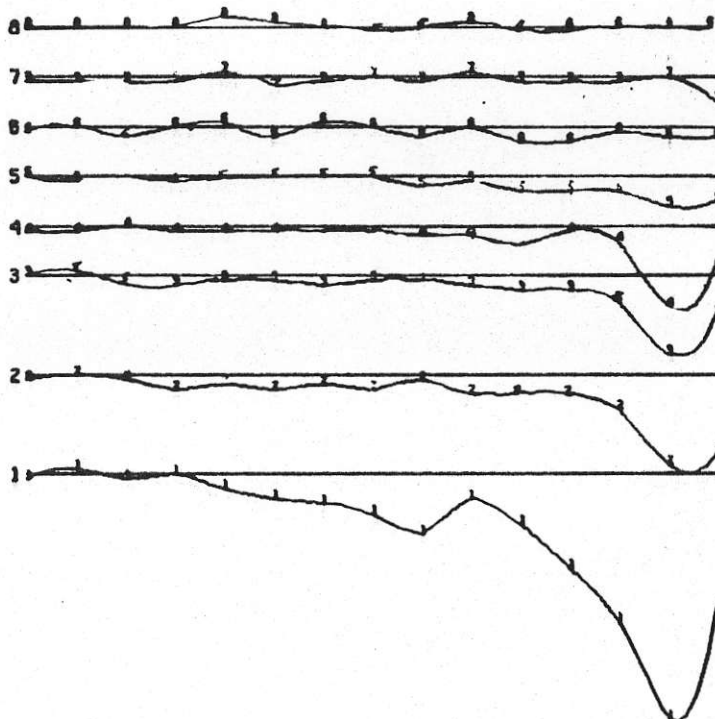
N.T.S. 92-8/13

DATE 10 APRIL 1992

FIG.NO: 27

LOOPR

1260 N  
1230 N  
1200 N  
1170 N  
1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
990N  
960N  
930N  
900N  
870N  
840N



EXCELLENT  
CORRELATION  
WITH LINE 400 E



• OR -  
P.P.S.  
SCALE



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.N.

S E R E M . LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECT. MAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 800E R

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

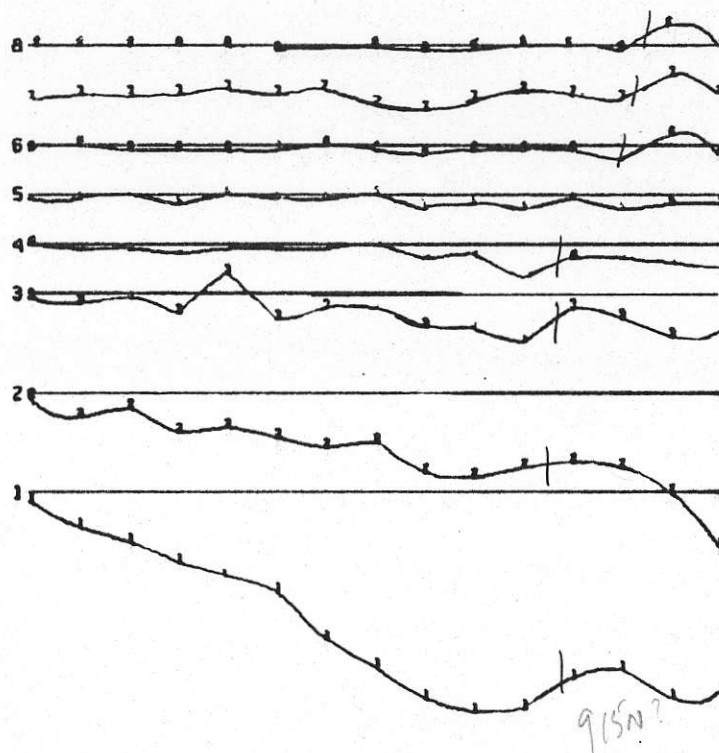
M.T.S. 92 8/13  
DATE: 28 APRIL 1990

FIG. NO: 28



LOOPR

1260 N  
1230 N  
1200 N  
1170 N  
1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
990N  
960N  
930N  
900N  
870N  
840N



0 60 120 180 240

METRS

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT  
LINE 800E R

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

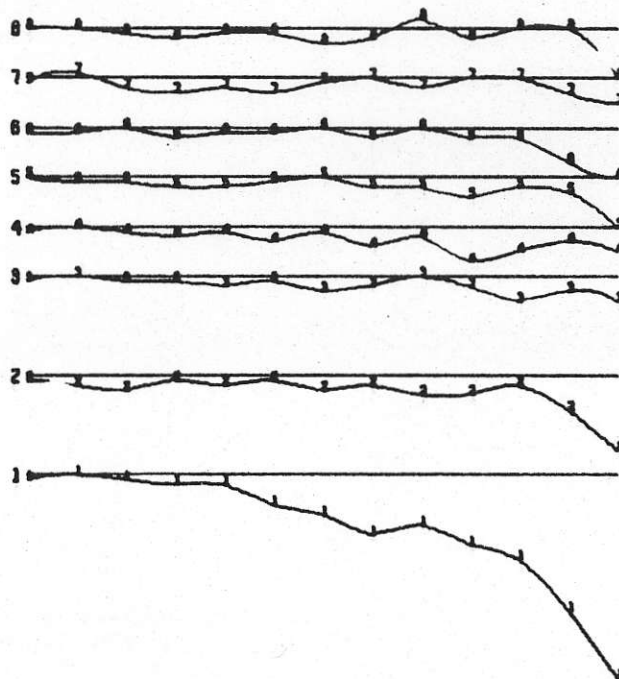
N.T.S. 92-8/13

DATE 10 APRIL 1960

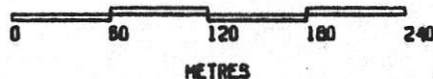
FIG.No: 20

LOOPR

1260 N  
1250 N  
1200 N  
1170 N  
1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
980 N  
960 N  
930 N  
900 N



+ OR -  
P.P.S.  
SCALE



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

S E R E M LTD.

MT. SICKER PROJECT

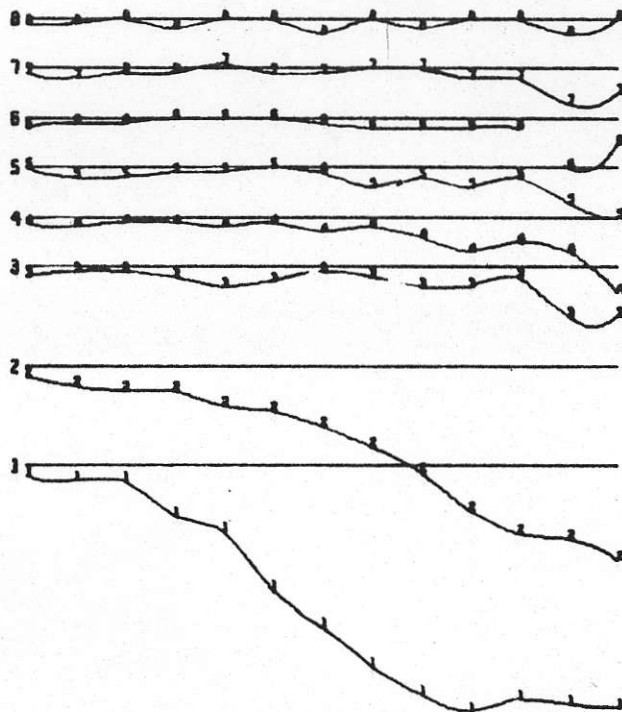
VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 1200E R

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

N.T.S. 92-B/13  
DATE 10 APRIL 1990  
FIG. NO. 30

LOOPR

1260 M  
1230 M  
1200 M  
1170 M  
1140 M  
1110 M  
1080 M  
1050 M  
1020 M  
990M  
960M  
930M  
900M



• 100 -  
P.P.S.  
SCALE



METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT  
LINE 1200E R

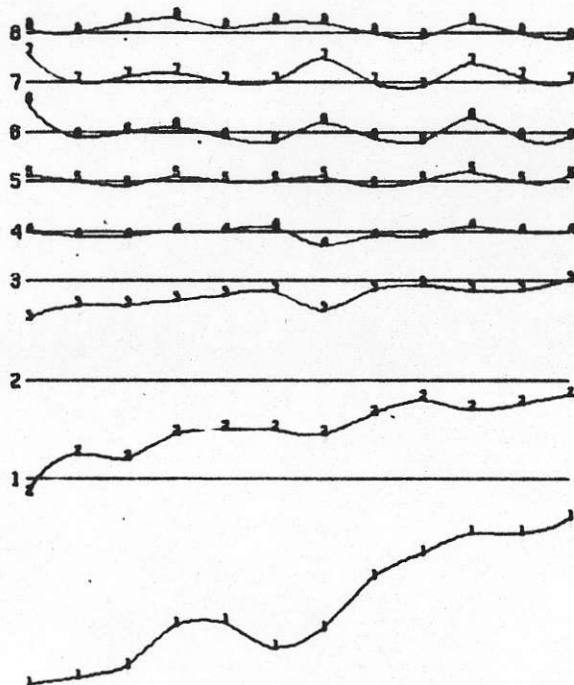
GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

N.T.S. 92-8/13  
DATE 10 APRIL 1990

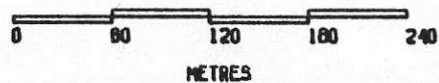
FIG.NO: 31

420S 450S 480S 510S 540S 570S 600S 630S 660S 690S 720S 750S

LOOPP



+ OR -  
P.P.E.  
SCALE



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 1600V P

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

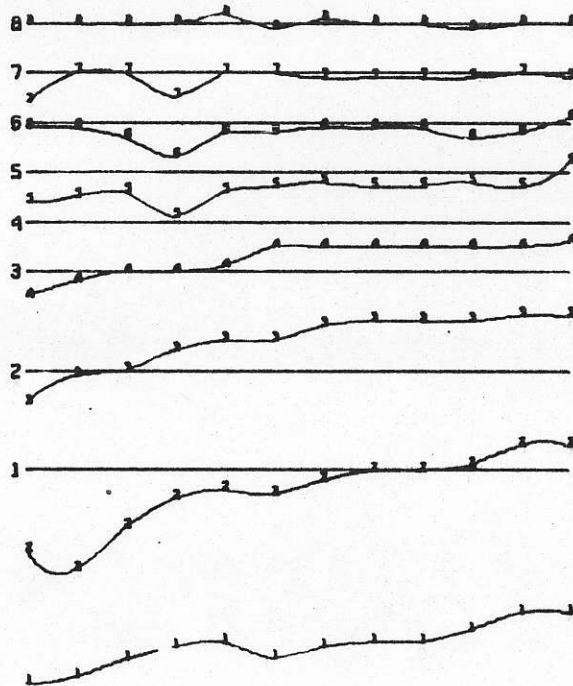
N.T.S. 92-8/13

DATE 10 APRIL 1980

FIG.NO: 32

4205 4505 4805 5105 5405 5705 6005 6305 6605 6905 7205 7505

LOOP



+ ON -  
P.P.S.  
SCALE



METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER

VERTICAL COMPONENT

LINE 1600W P

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

N.T.S. 92-B/19

DATE 18 APRIL 1980

FIG. NO: 33

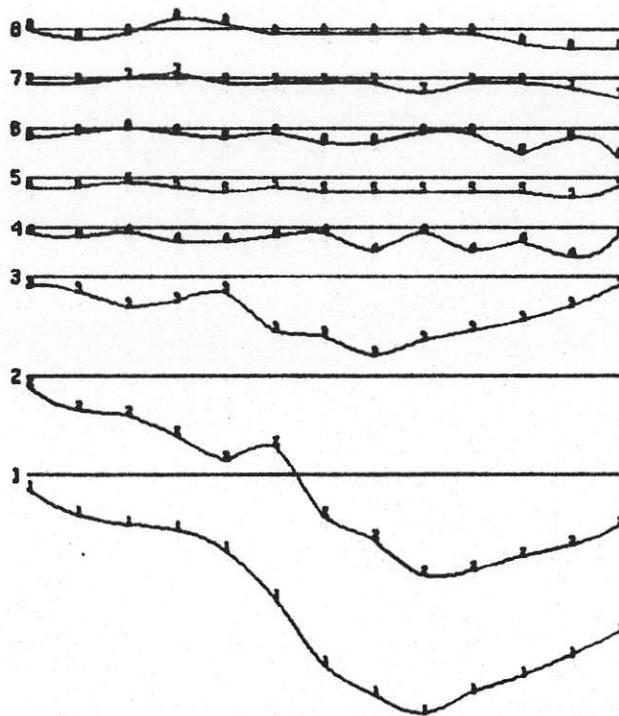




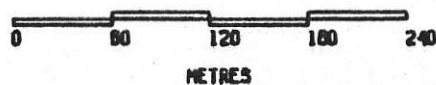
• ON -  
P.P.E.  
SCALE

LOOPD

3005 3205 3405 3605 3805 4005 4205 4405 4605 4805 5005 5205 5405 5605 5805 6005 6205 6405



RESPONSE SIMILAR  
TO VERTICAL COMPONENT  
SUGGESTS A CONDUCTOR  
TREND AT 45° TO LINE



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.N.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 1600V Q

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

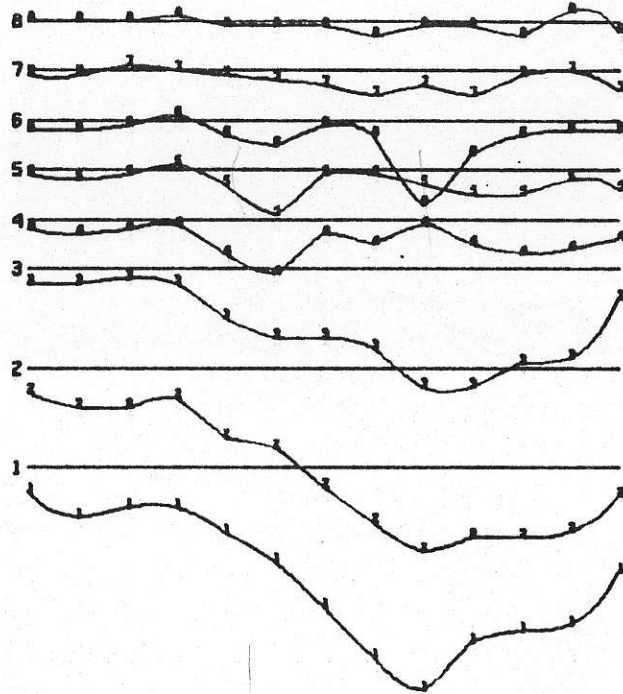
M.T.S. 92-B/13

DATE 28 APRIL 1980

FIG. NO: 34

LOOP 0

3005 3305 3605 3905 4205 4505 4805 5105 5405 5705 6005 6305 6605



0 60 120 180 240  
METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

S E R E M LTD.

MR. SICKER PROJECT

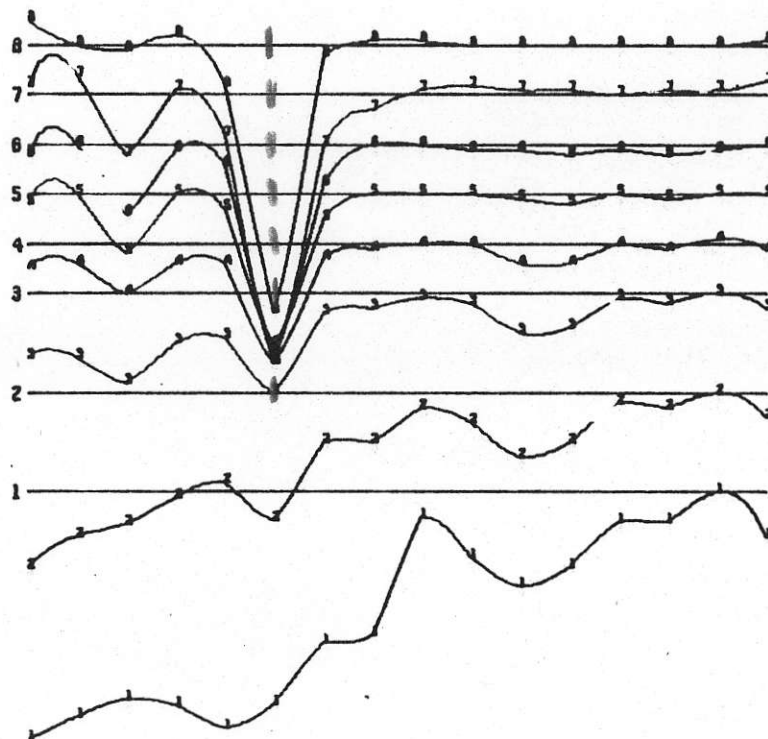
VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT  
LINE 1600V Q

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

M.T.S. 92-8/13  
DATE 10 APRIL 1989  
FIG. NO: 35

270S 300S 330S 360S 390S 420S 450S 480S 510S 540S 570S 600S 630S 660S 690S 720S

LOOPP



+ OR -  
P.P.S.  
SCALE



METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.N.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 1200V P

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

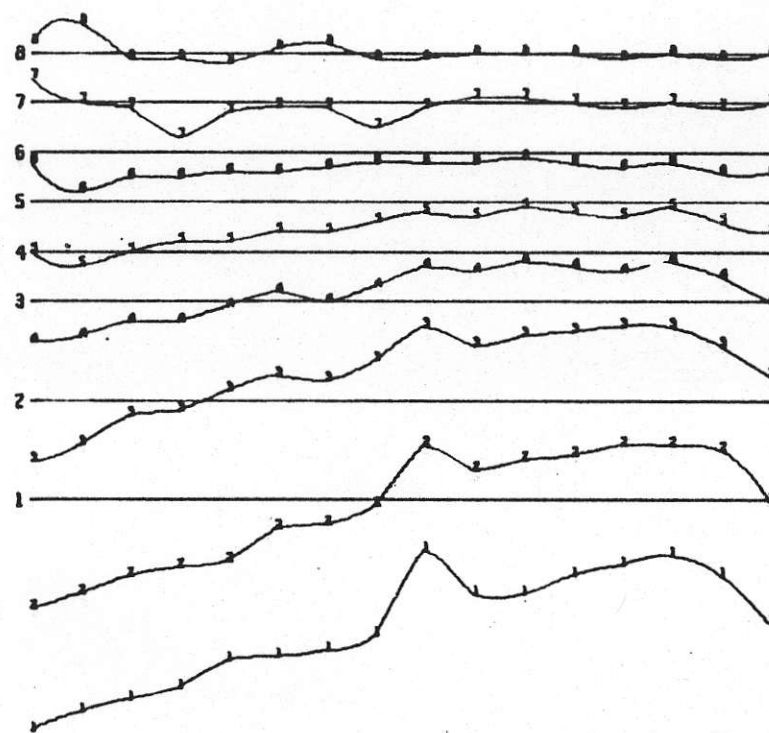
N.T.S. 92-8/13

DATE 10 APRIL 1988

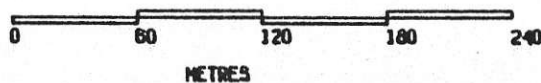
FIG. NO. 36

2705 3005 3305 3605 3905 4205 4505 4805 5105 5405 5705 6005 6305 6605 6905 7205

LOOP



• ON -  
P.P.S.  
SCALE



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.N.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT  
LINE 1200W P

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

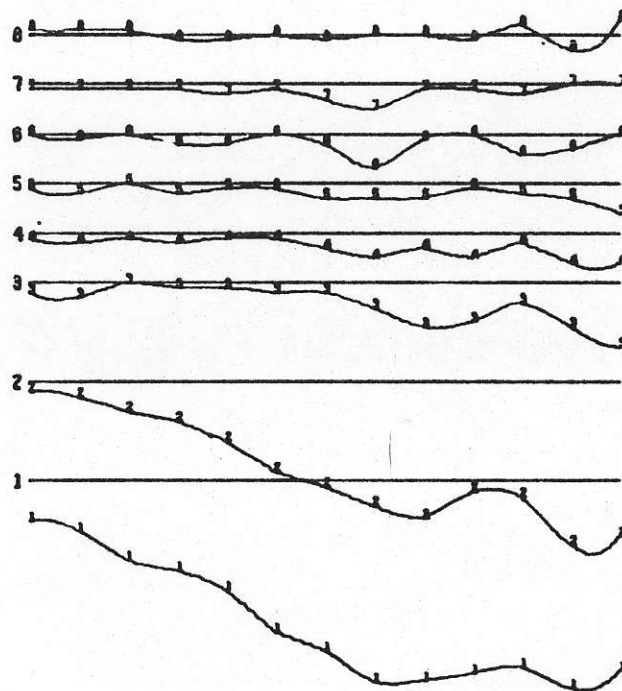
N.T.S. 92-8/13

DATE 10 APRIL 1988

FIG. NO. 37

LOOP 0

300S 320S 340S 360S 380S 400S 420S 440S 460S 480S 500S 520S 540S 560S 580S 600S



0 60 120 180 240  
METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.N.

S E R E M LTD.

RT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 1200V Q

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

N.T.S. 92-8/13

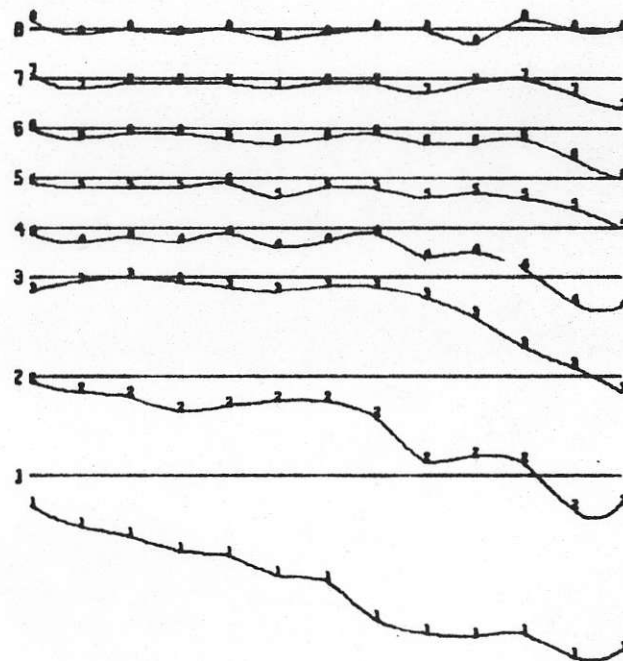
DRAWN 10 APRIL 1990

FIG. NO. 38

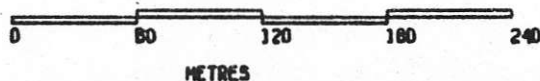


LOOPD

5005 3305 3605 3905 4205 4505 4805 5105 5405 5705 6005 6305 6605



• ON -  
P.P.S.  
SCALE



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

S E R E M LTD.

M. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT  
LINE 1200W Q

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

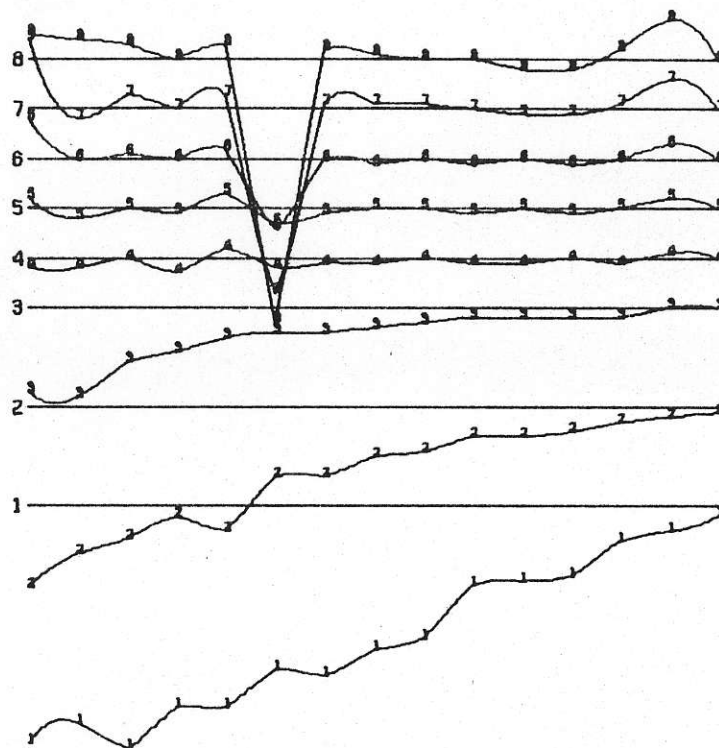
N.T.S. 92-B/13

DATE 30 APRIL 1985

FIG. NO: 30

240S 270S 300S 330S 360S 390S 420S 450S 480S 510S 540S 570S 600S 630S 660S

LOOP



0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
110  
120  
130  
140  
150  
160  
170  
180  
190  
200  
210  
220  
230  
240  
250  
260  
270  
280  
290  
300

+ OR -  
P.P.K.  
CHL

0 60 120 180 240  
METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.N.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMETER  
HORIZONTAL COMPONENT  
LINE 800W P

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

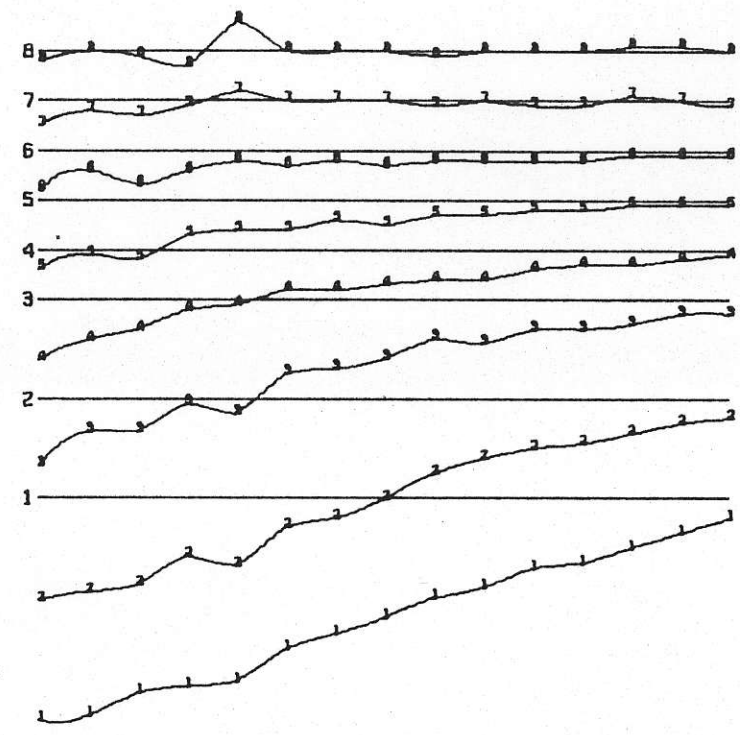
N.T.S. 92-8/13

DATE 10 APRIL 1983

FIG. NO. 70

240S 270S 300S 330S 360S 390S 420S 450S 480S 510S 540S 570S 600S 630S 660S

LOOP



0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
200  
300

+ OR -  
P.P.F.  
SCALE

0 60 120 180 240  
METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

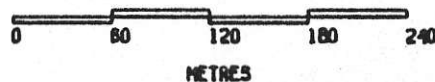
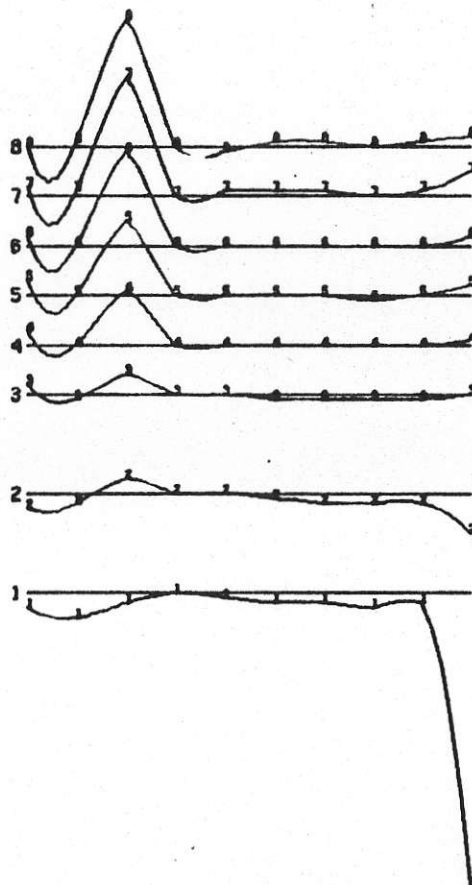
|                                        |                    |
|----------------------------------------|--------------------|
| S E R E M LTD.                         |                    |
| MT. SICKER PROJECT                     |                    |
| VECTOR PULSE ELECTROMAGNETOMETER       |                    |
| VERTICAL COMPONENT                     |                    |
| LINE                                   | 800W P             |
| GLEN E. WHITE                          |                    |
| GEOPHYSICAL CONSULTING & SERVICES LTD. |                    |
| N.T.S. 92-8/13                         | DATE 18 APRIL 1980 |
| FIG.NO: 41                             |                    |



• OR -  
P.P.S.  
SCALE

LOOP 0

330S 360S 390S 420S 450S 480S 510S 540S 570S 600S



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.N.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 800V Q

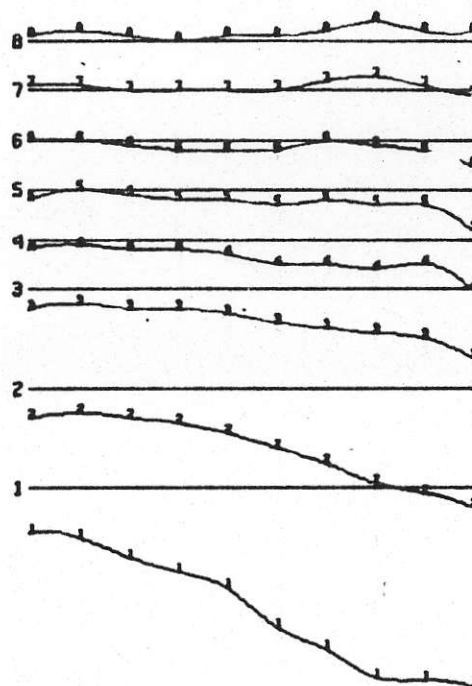
GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

N.T.S. 92-8/13  
DATE 10 APRIL 1980

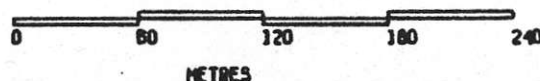
FIG. NO: 42

LOOP 9

330S 360S 390S 420S 450S 480S 510S 540S 570S 600S



+ OR -  
P.P.M.  
SCALE



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

S E R E M L T D .

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT  
LINE 800W Q

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

N.T.S. 92-8/13

DATE 26 APRIL 1989

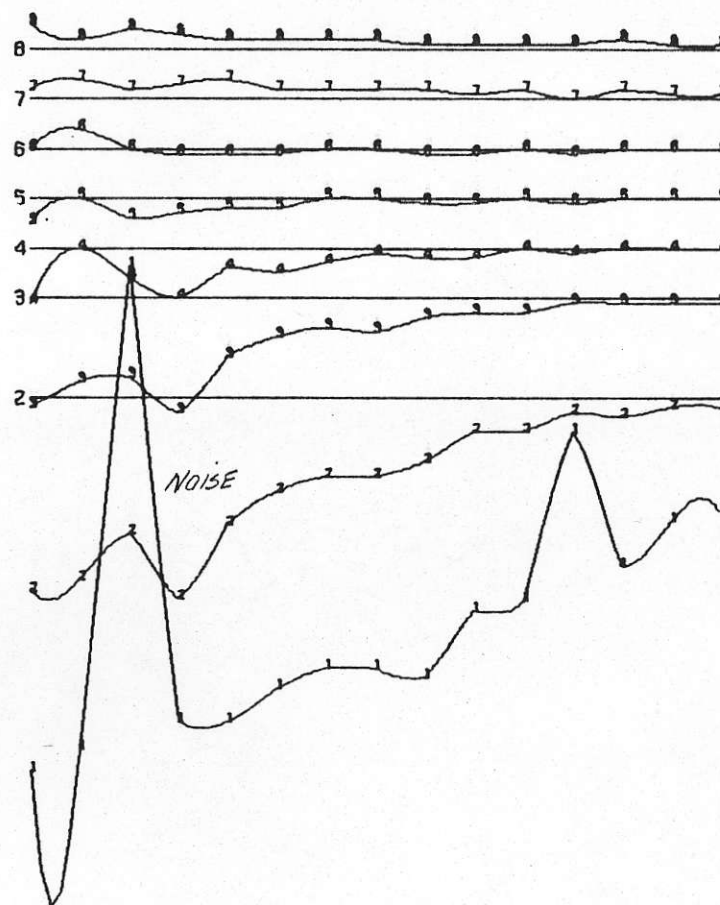
FIG.NO: 43



2105 2405 2705 3005 3305 3605 3905 4205 4505 4805 5105 5405 5705 6005 6305

LOOP

0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
200  
300  
+OR-  
P P K  
SCALE



0 60 120 180 240  
METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 400W P

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

N.T.S. 92-8/13

DATE 18 APRIL 1980

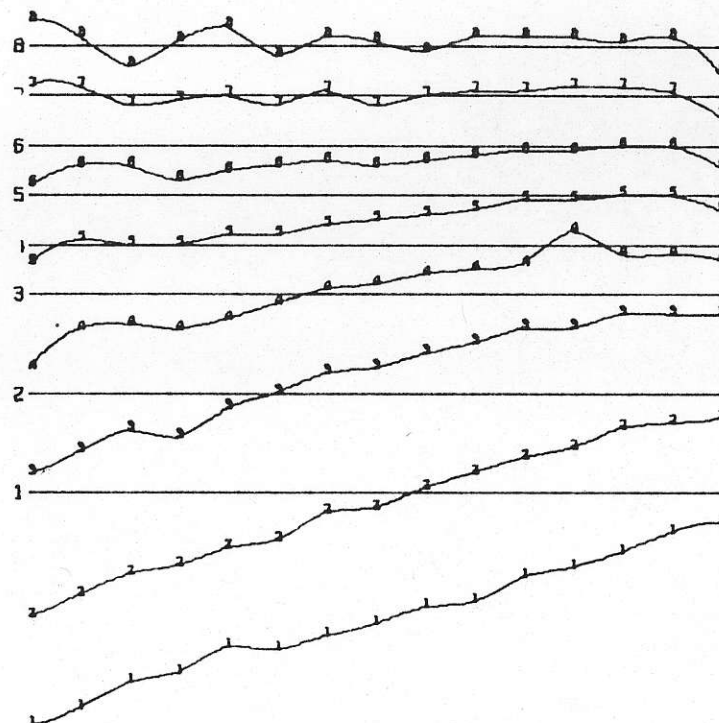
FIG. NO. 44

2105 2405 2705 3005 3305 3605 3905 4205 4505 4805 5105 5405 5705 6005 6305

LOOPP

0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
200  
300

+ OR -  
P.P.K.  
SCALE



0 60 120 180 240  
METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: LORNE P.E.M.

S E R E M LTD.

MT. SICKER PROJECT

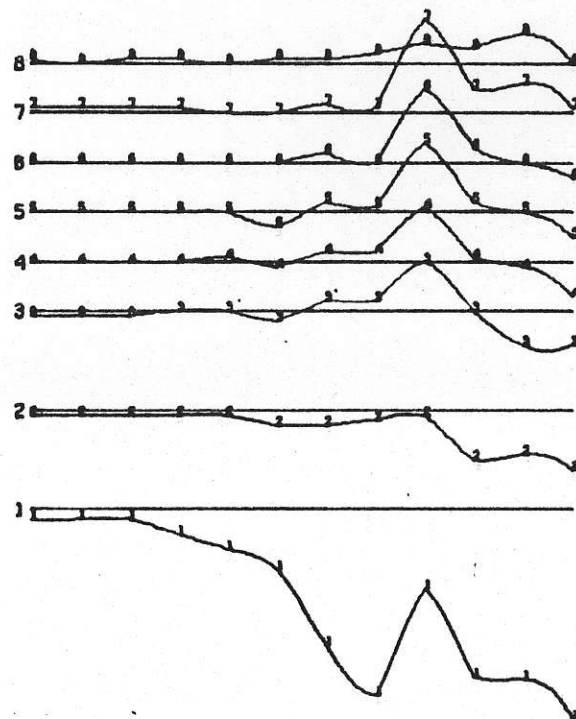
VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT  
LINE 400W P

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

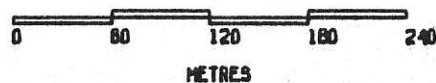
N.T.S. 92-B/13  
DATE 10 APRIL 1980  
FIG. NO: 45

LOOP 0

3305 3605 3905 4205 4505 4805 5105 5405 5705 6005 6305 6605



• OR -  
P.P.S.  
SCALE



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

S E R E M LTD.

MT. SICKER PROJECT

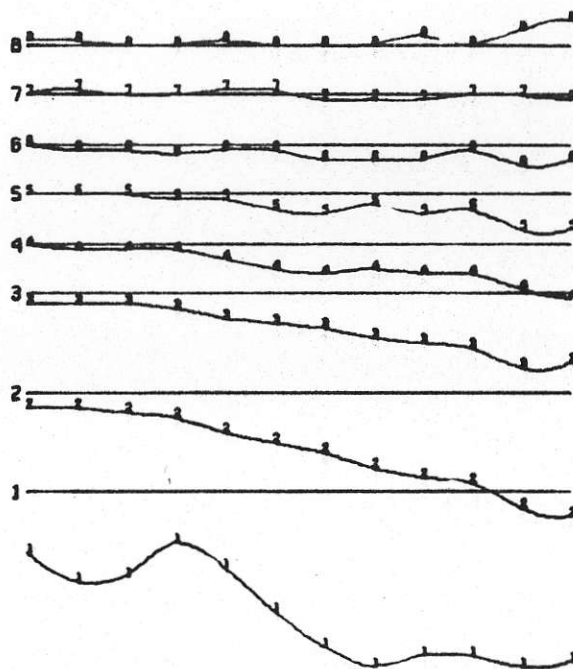
VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 400V Q

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

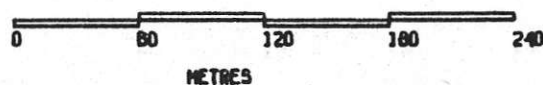
N.T.S. 92-B/13  
DATE 10 APRIL 1980  
FIG. NO. 46

LOOPD

330S 360S 390S 420S 450S 480S 510S 540S 570S 600S 630S 660S



• OR -  
P.P.S.  
SCALE



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.N.

S E R E M LTD.

MT. SICKER PROJECT

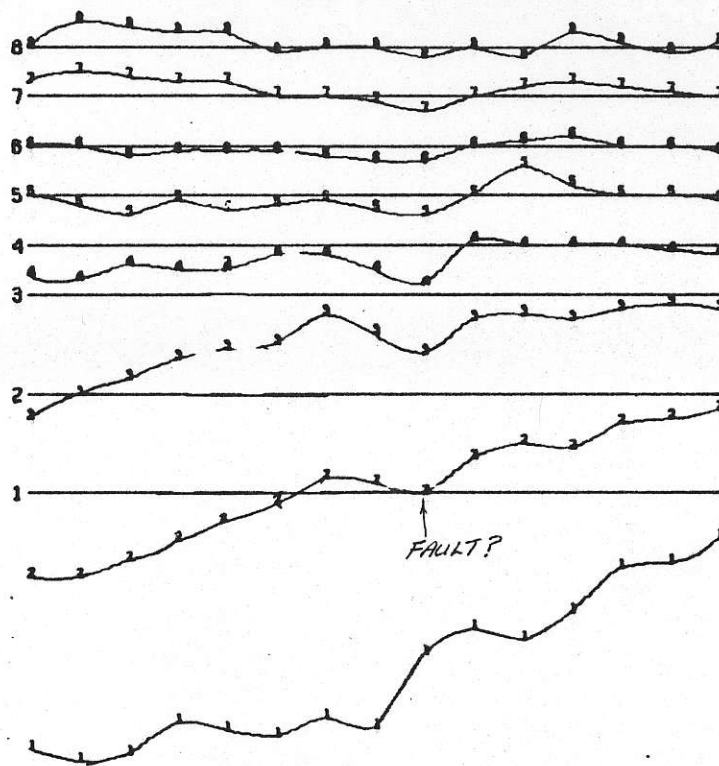
VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT  
LINE 400W Q

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

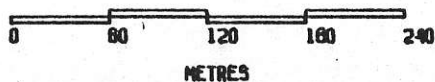
N.T.S. 92-8/13  
DATE 10 APRIL 1988  
FIG.NO: 47

2105 2405 2705 3005 3305 3605 3905 4205 4505 4805 5105 5405 5705 6005 6305

LOOP



+ OR -  
P.P.S.  
SCALE



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.N.

S E R E M LTD.

HT: SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 000V P

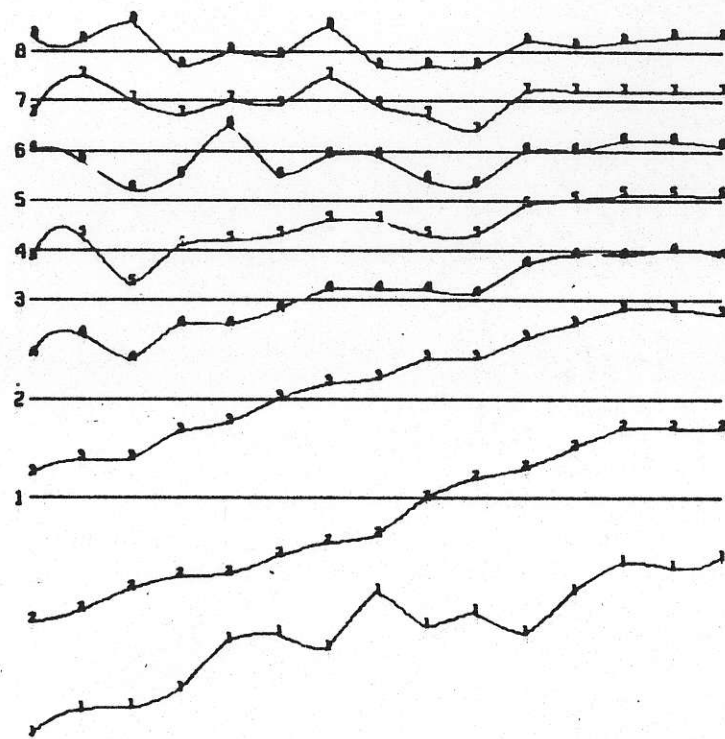
GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

N.T.S. 92-B/13  
DATE 19 APRIL 1980  
FIG. NO. 48

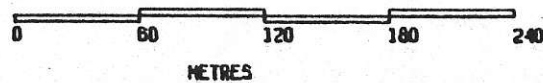


2105 2405 2705 3005 3305 3605 3905 4205 4505 4805 5105 5405 5705 6005 6305

LOOP



+ OR -  
P.P.S.  
SCALE



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.N.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT  
LINE 000V P

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

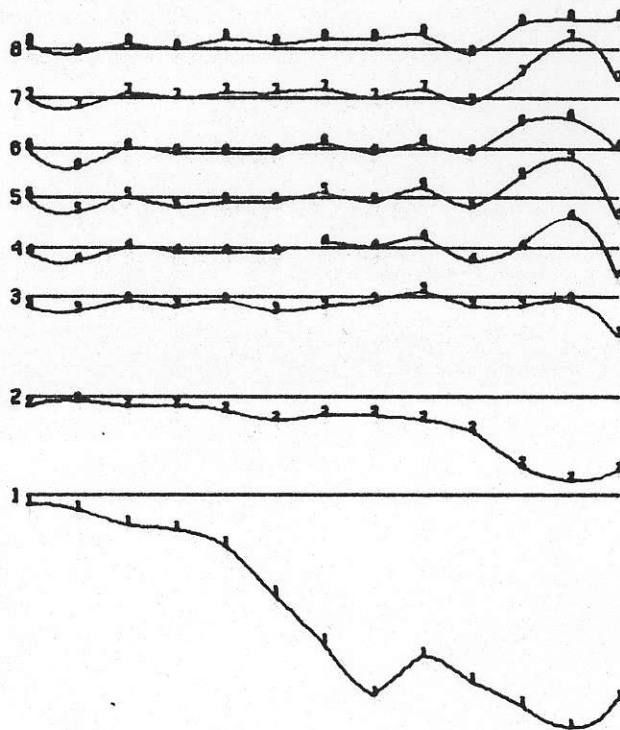
N.T.S. 92-8/13

DATE 10 APRIL 1980

FIG. NO. 40

LOOPD

5005 3905 3805 3705 4205 4305 4805 5105 5405 5705 6005 6305 6805



• OR -  
P.P.S.  
SCALE



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 00E Q

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

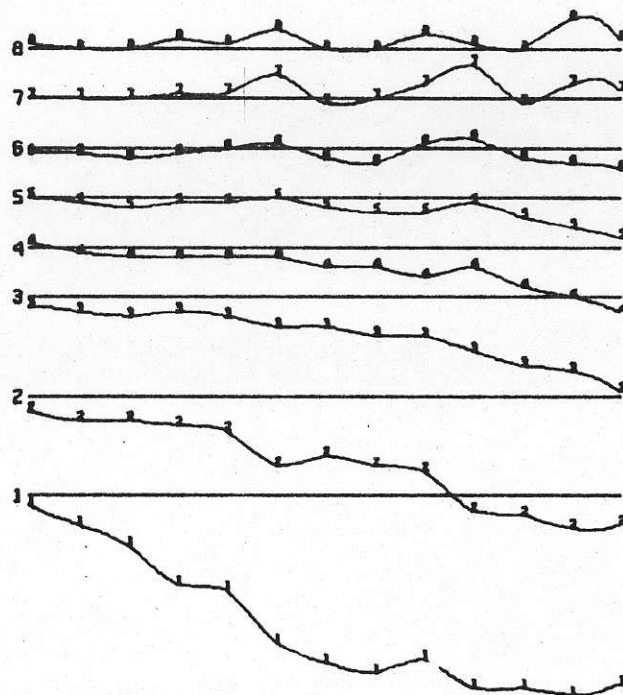
M.T.S. 92-9/13

DATE 10 APRIL 1989

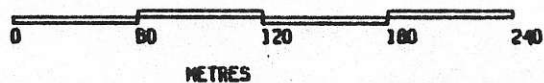
FIG. NO: 50

LOOP 0

300S 330S 360S 390S 420S 450S 480S 510S 540S 570S 600S 630S 660S



• ON -  
P.P.S.  
SCALE



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.N.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT  
LINE 00E Q

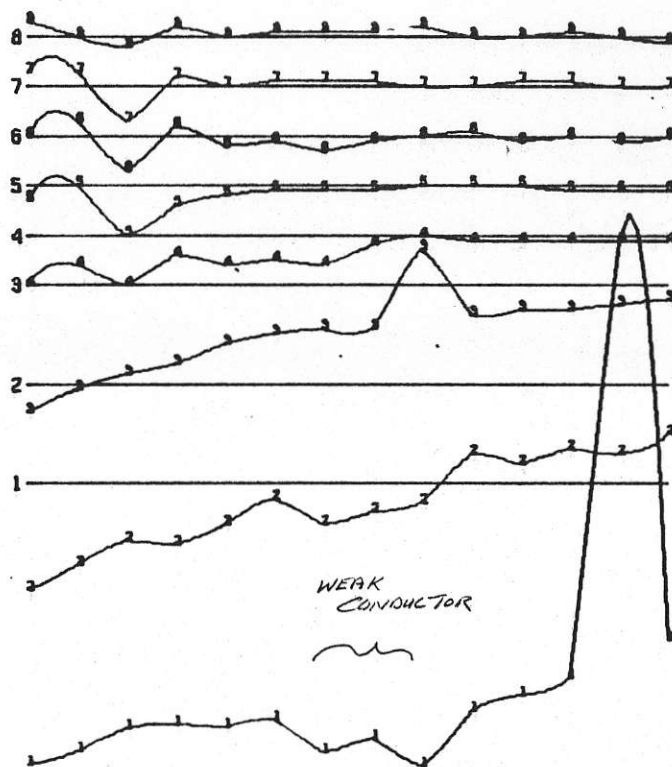
GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

N.T.S. 92-8/13  
DATE 16 APRIL 1992

FIG. NO. 51

240S 270S 300S 330S 360S 390S 420S 450S 480S 510S 540S 570S 600S 630S

LOOP



WEAK  
CONDUCTOR

METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

S E R E M LTD.

MT. SICKER PROJECT

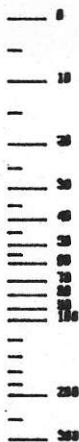
VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 400E P

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

N.T.S. 92-8/19

DATE 18 APRIL 1988

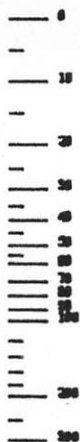
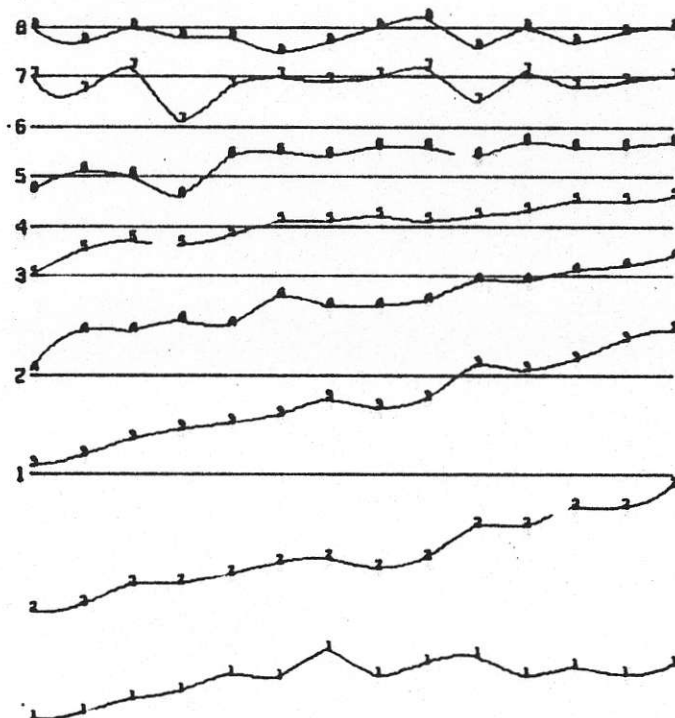
FIG. NO: 52



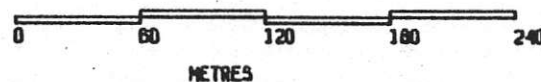
+ OR -  
P.P.S.  
SCALE

2405 2705 3005 3305 3605 3905 4205 4505 4805 5105 5405 5705 6005 6305

LODPP



• OR -  
P.P.K.  
SCALE



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT  
LINE 400E P

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

N.T.S. 92-8/13

DATE 10 APRIL 1988

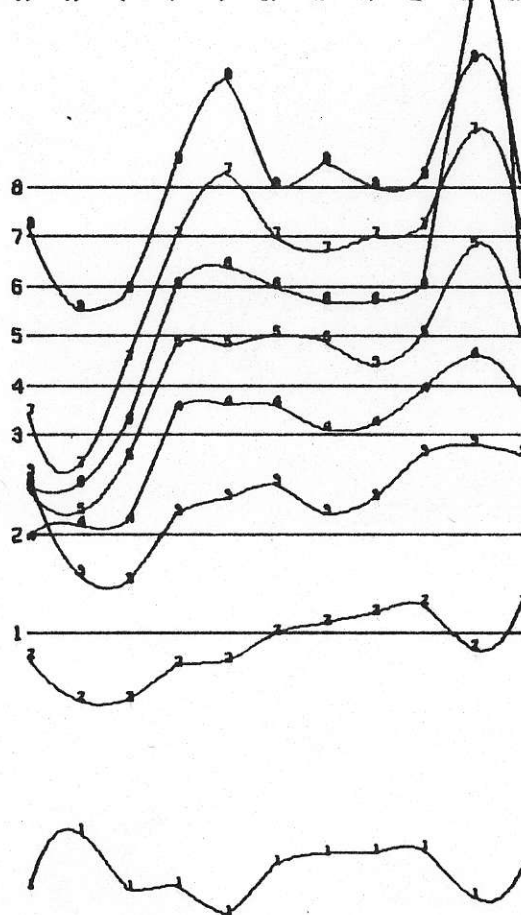
FIG. NO: 53



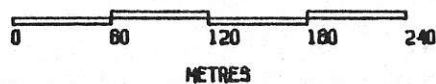
0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
110  
200  
300

+ OR -  
P.P.K.  
SCALE

360S 390S 420S 450S 480S 510S 540S 570S 600S 630S 660S



LOOP



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 800E P

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

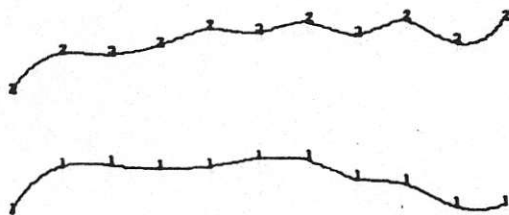
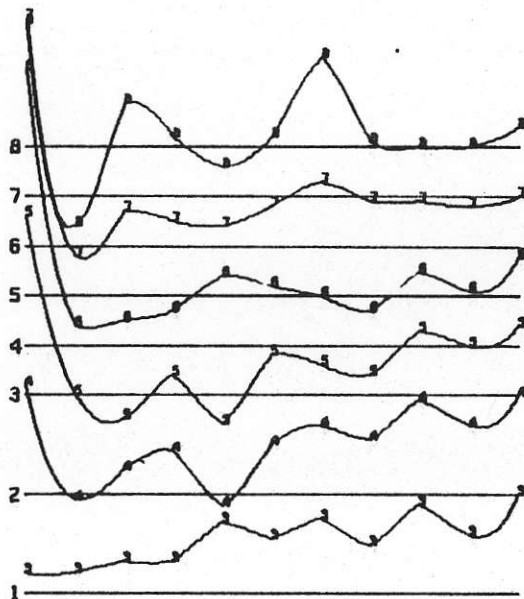
M.T.S. 92-B/19  
DATE 18 APRIL 1988  
FIG. NO: 54

0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
110  
120  
130  
140  
150  
160  
170  
180  
190  
200  
210  
220  
230  
240  
250  
260  
270  
280  
290  
300

+ OR -  
P.P.K.  
SCALE

360S 390S 420S 450S 480S 510S 540S 570S 600S 630S 660S

LOOP



0 60 120 180 240  
METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.N.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT  
LINE 800E P

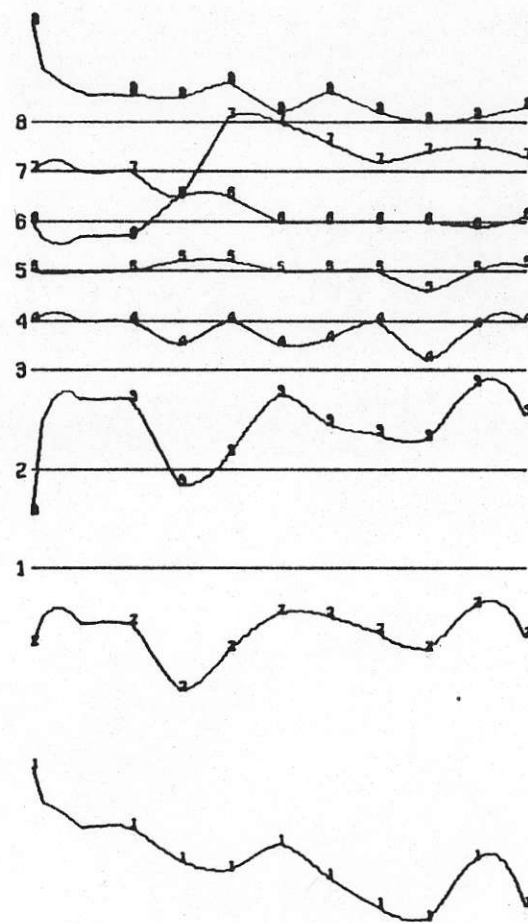
GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

N.T.S. 92-B/13  
DATE 16 APRIL 1988

FIG. NO: 55

3905 4205 4505 4805 5105 5405 5705 6005 6305 6605

LOOP



0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
110  
120  
130  
140  
150  
160  
170  
180  
190  
200  
210  
220  
230  
240  
250  
260  
270  
280  
290  
300

+ OR -  
P.P.K.  
SCALE

0 60 120 180 240  
METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

S E R E M LTD.

MT. SICKER PROJECT

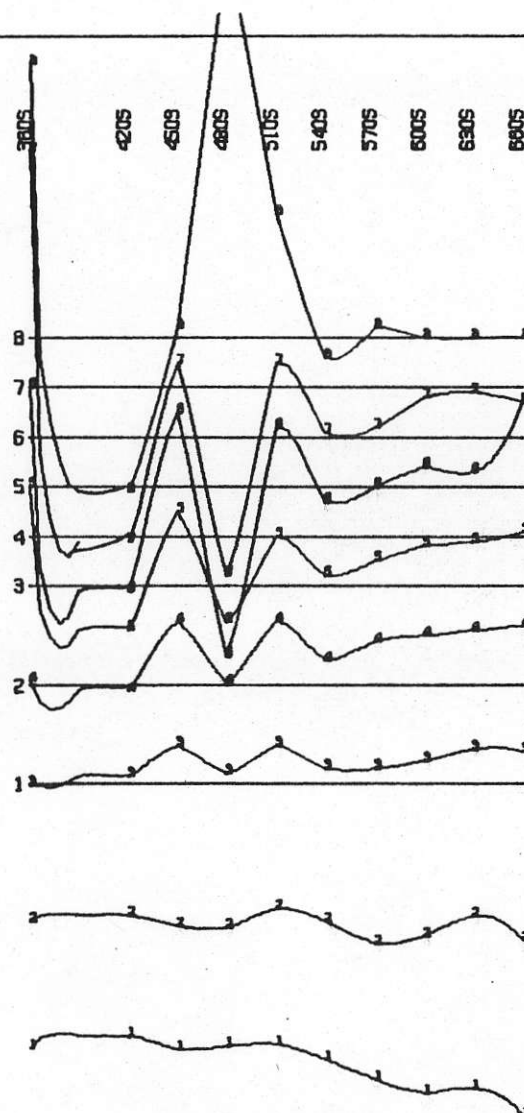
VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 1200E P

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

N.T.S. 92-8/13  
DATE 18 APRIL 1980  
FIG. NO: 56

0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
110  
120  
130  
140  
150  
160  
170  
180  
190  
200  
210  
220  
230  
240  
250  
260  
270  
280  
290  
300

+ OR -  
P.P.K.  
SCALE



0 60 120 180 240  
METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.N.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT  
LINE 1200E P

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

N.T.S. 92-B/13  
DATE 18 APRIL 1988

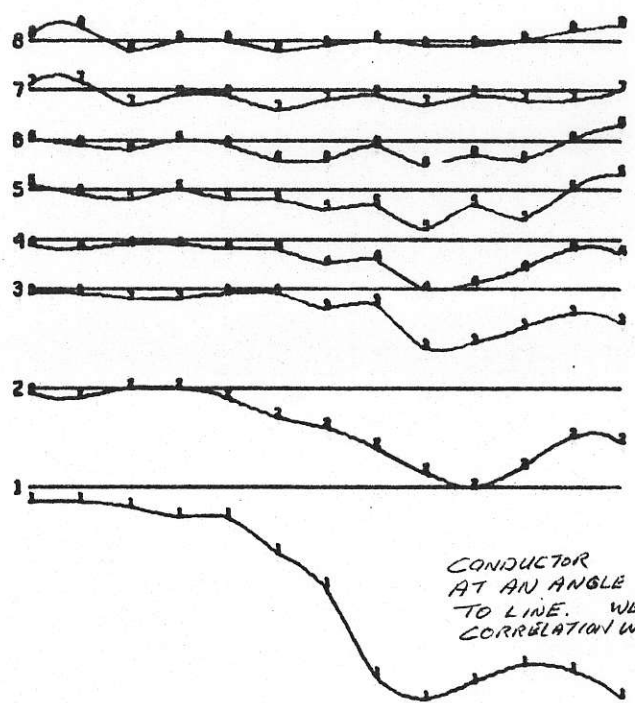
FIG. NO: 57



• IN -  
P.P.S.  
SCALE

LOOP D

3005 3305 3605 3905 4205 4505 4805 5105 5405 5705 6005 6305 6605



CONDUCTOR  
AT AN ANGLE  
TO LINE. WEAK  
CORRELATION WITH LOOP P



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.N.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 1200E Q

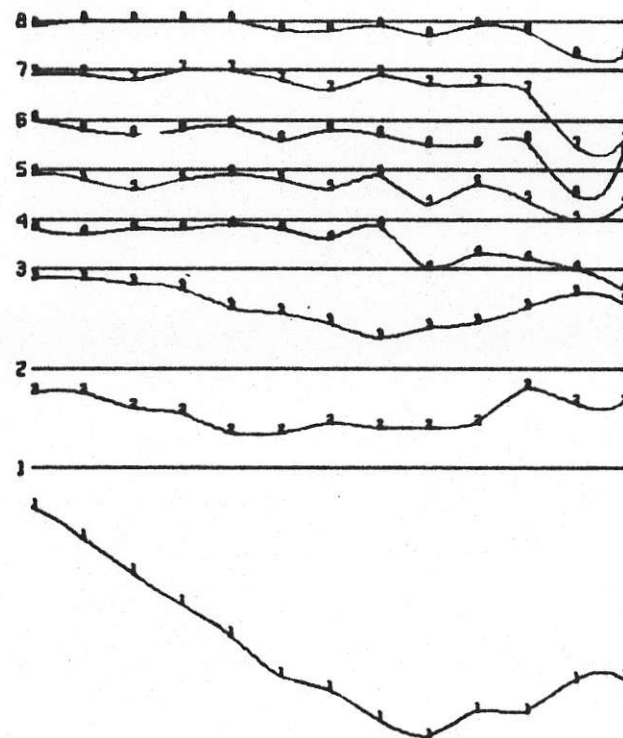
GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

N.T.S. 92-8/13  
DATE 10 APRIL 1988  
FIG. NO. 58

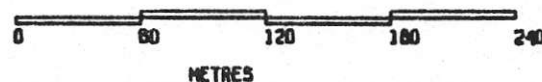


LOOPD

300S 330S 360S 390S 420S 450S 480S 510S 540S 570S 600S 630S 660S



• OR -  
P.P.S.  
SCALE



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.N.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMETER  
VERTICAL COMPONENT  
LINE 1200E Q

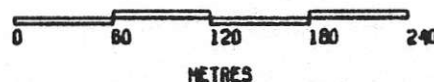
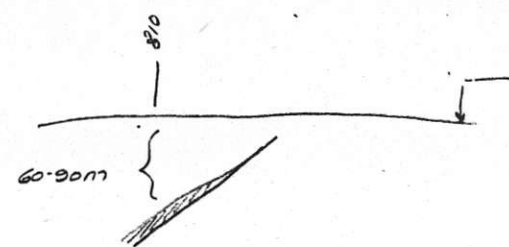
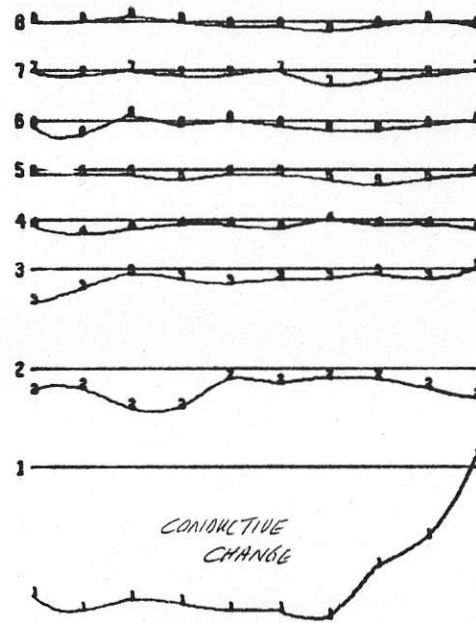
GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

N.T.S. 92-8/13  
DATE 10 APRIL 1988

FIG. NO: 59

NO 26  
NO 25  
NO 24  
NO 23  
NO 22  
NO 21  
NO 20  
NO 19  
NO 18  
NO 17  
NO 16  
NO 15  
NO 14  
NO 13  
NO 12  
NO 11  
NO 10  
NO 9  
NO 8  
NO 7  
NO 6  
NO 5  
NO 4  
NO 3  
NO 2  
NO 1

LOOPS



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.N.

S E R E M LTD.

MT. SICKER PROJECT

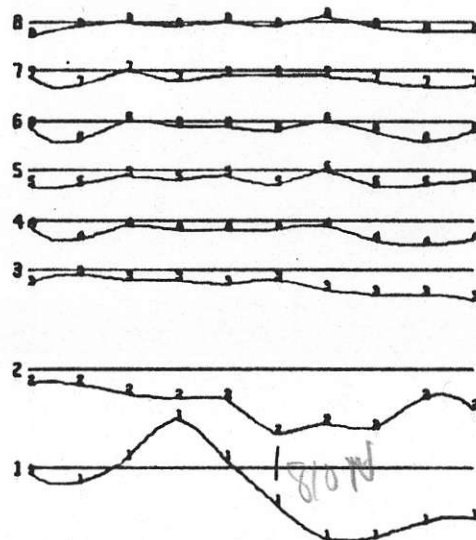
VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 6400E S

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

N.T.S. 92-8/13  
DATE 10 APRIL 1980  
FIG. NO: 60

960N  
950N  
900N  
870N  
840N  
8018  
780N  
750N  
720N  
690N

LOOPS



GOOD CROSS OVER



• ON -  
P.P.S.  
SCALE



METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.N.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT  
LINE 6400E S

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

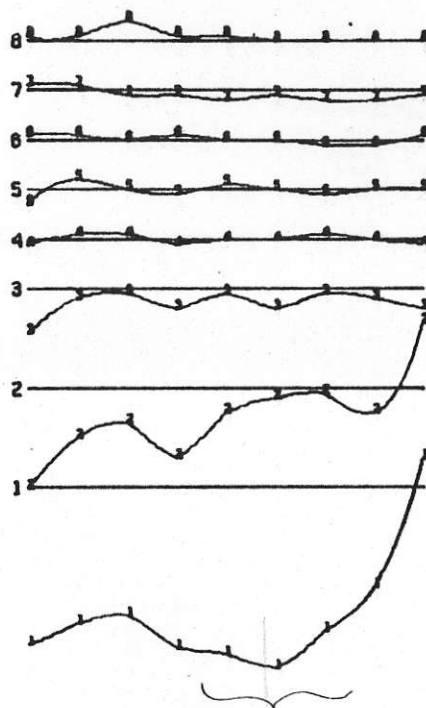
N.T.S. 92-8/13

DATE 10 APRIL 1988

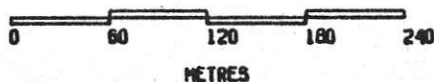
FIG. NO: 61

930N 900N 870N 840N 810N 780N 750N 720N 690N

LOOPS



CONDUCTIVE RESPONSE  
WITH THREE CHANNEL  
CROSS OVER SHOULD  
BE DRILLED



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.N.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 6800E S

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

N.T.S. 92-8/13

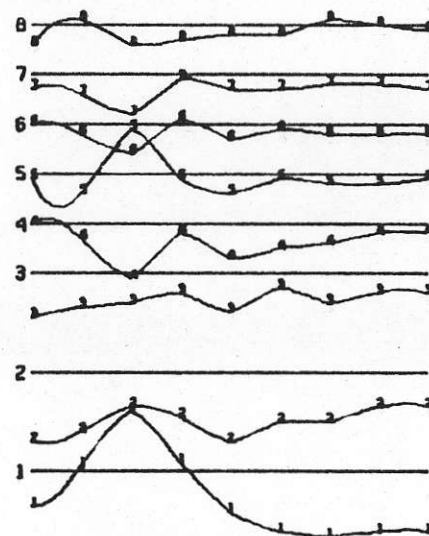
DATE 10 APRIL 1988

FIG. NO: 62

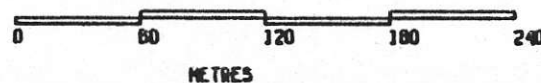
• ON -  
P.P.S.  
SCALE

NO56 NO58 NO59 NO60 NO61 NO62 NO63 NO64 NO65

LOOPS



• OR -  
P.P.S.  
SCALE



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.N.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT  
LINE 6800E S

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

N.T.S. 92-8/13

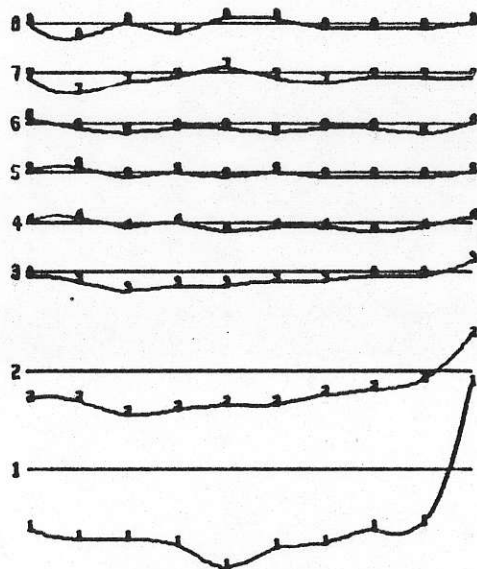
DATE 16 APRIL 1988

FIG. NO: 63



860M 850M 840M 830M 820M 810M 800M 790M 780M 770M 760M 750M 740M 730M 720M 710M 700M

LOOPS



• ON -  
P.P.S.  
SCALE



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 7200E S

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

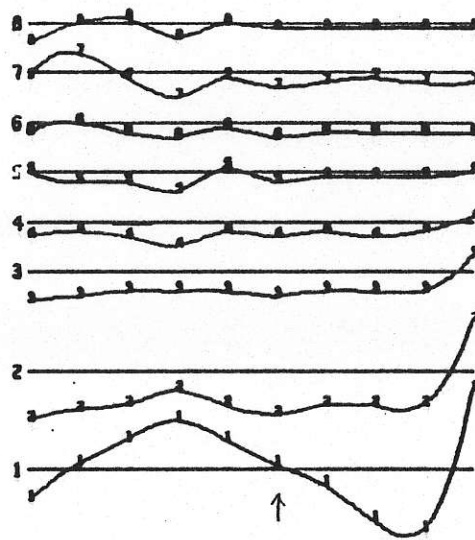
N.T.S. 92-8/13

DATE 10 APRIL 1959

FIG. NO. 64

690M 630M 600M 670M 640M 610M 760M 750M 720M 600M

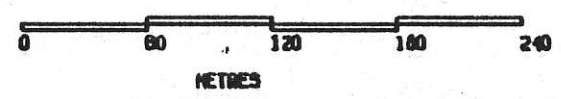
LOOPS



STRONG BUT BROADER  
CROSS OVER

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 600 610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 800 810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990 1000

P.P.S.  
SCALE



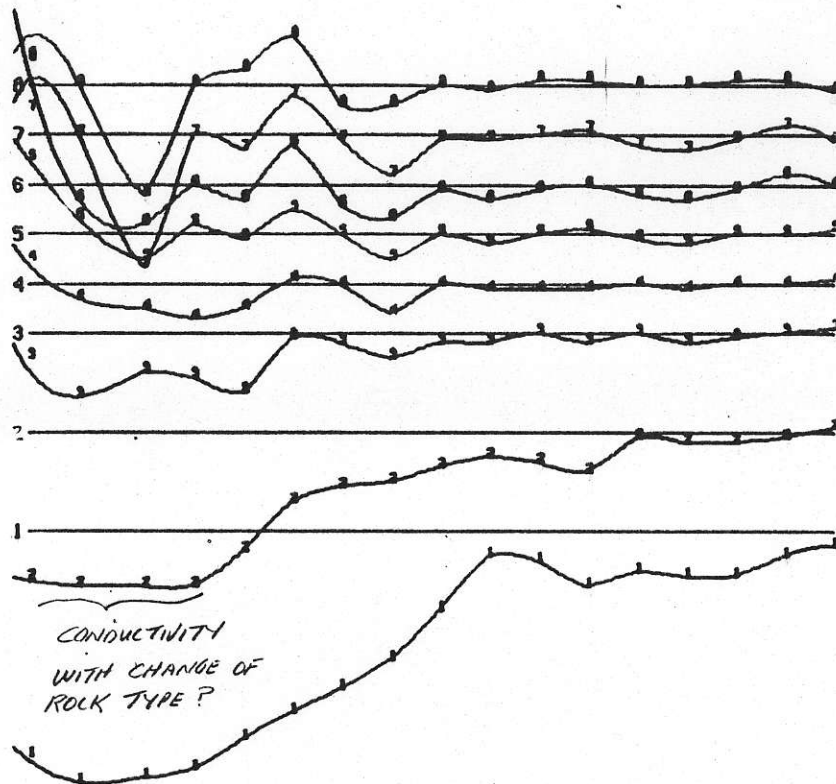
NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.N.

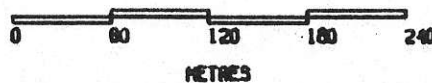
|                                                        |   |
|--------------------------------------------------------|---|
| S E R E M LTD.                                         |   |
| MT. STICKER PROJECT                                    |   |
| VECTOR PULSE ELECTROMAGNETOMETER<br>VERTICAL COMPONENT |   |
| LINE 7200E                                             | S |
| GLEN E. WHITE                                          |   |
| GEOPHYSICAL CONSULTING<br>& SERVICES LTD.              |   |
| N.T.S. 92-8/13<br>DATE 18 APRIL 1980<br>FIG. NO: 65    |   |

1150 N  
1120 N  
1080 N  
1050 N  
1020 N  
990 N  
960 N  
930 N  
900 N  
870 N  
840 N  
810 N  
780 N  
750 N  
720 N  
690 N  
660 N

LOOPS



CONDUCTIVITY  
WITH CHANGE OF  
ROCK TYPE?



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.N.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 7600E S

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

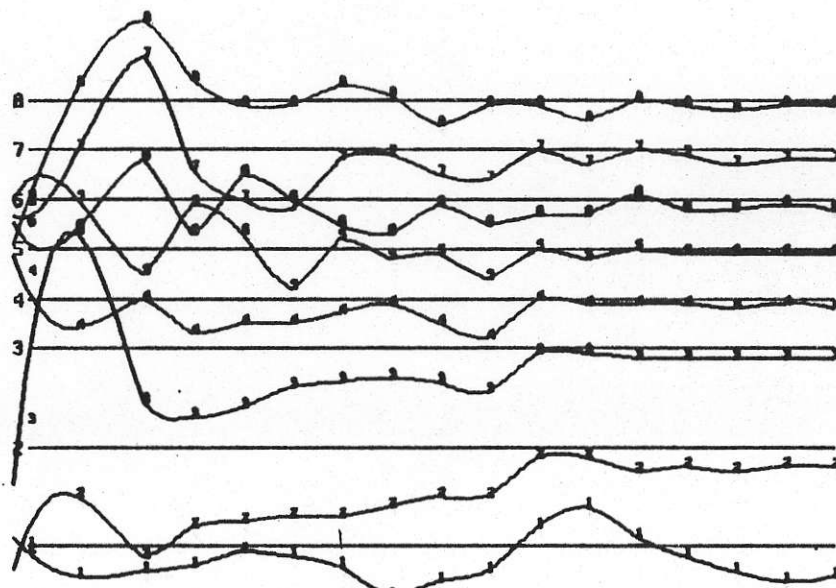
N.T.S. 92-B/13

DATE 10 APRIL 1980

FIG. NO: 66

1150 N  
1120 N  
1080 N  
1050 N  
1020 N  
990 N  
960 N  
930 N  
900 N  
870 N  
840 N  
810 N  
780 N  
750 N  
720 N  
690 N  
660 N

LOOPS

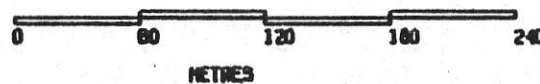


WEAK  
CROSSOVER  
980 N

WEAK BROAD  
CROSS OVER  
740 N



P.P.S.  
SCALE



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

S E R E M LTD.

MT. STICKER PROJECT

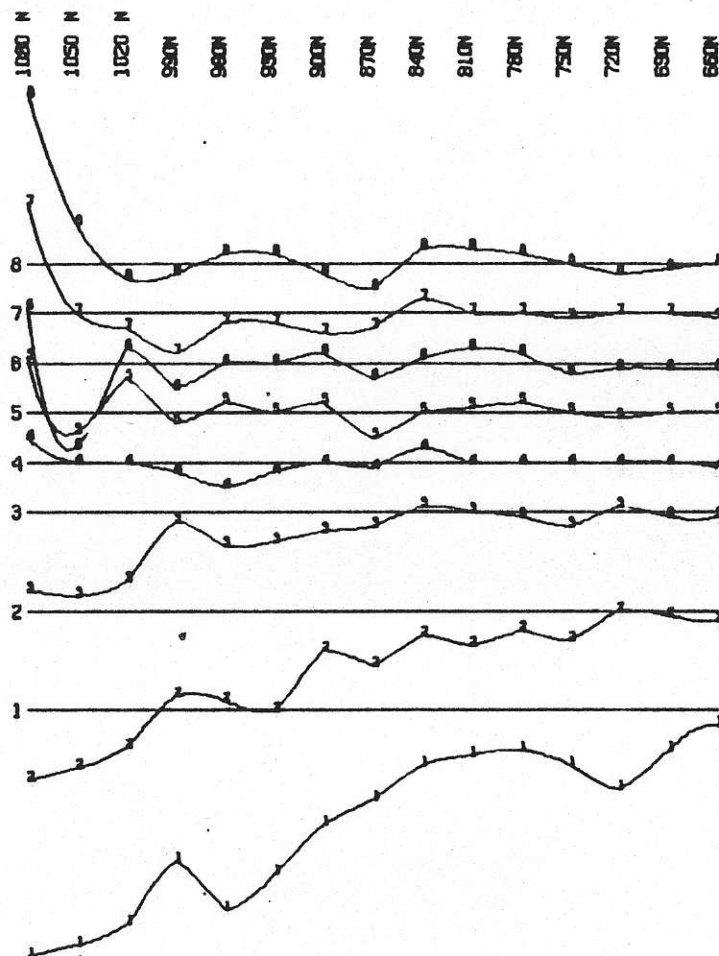
VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT  
LINE 7600E S

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

N.T.S. 92-8/13

DATE: 28 APRIL 1988

FIG. NO. 67



LOOPS

0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
110  
120  
130  
140  
150  
160  
170  
180  
190  
200  
210  
220  
230  
240  
250  
260  
270  
280  
290  
300

• OR -  
P.P.M.  
SCALE

0 80 120 160 240  
METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.N.

S. E. R. E. M. LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 8000E S

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

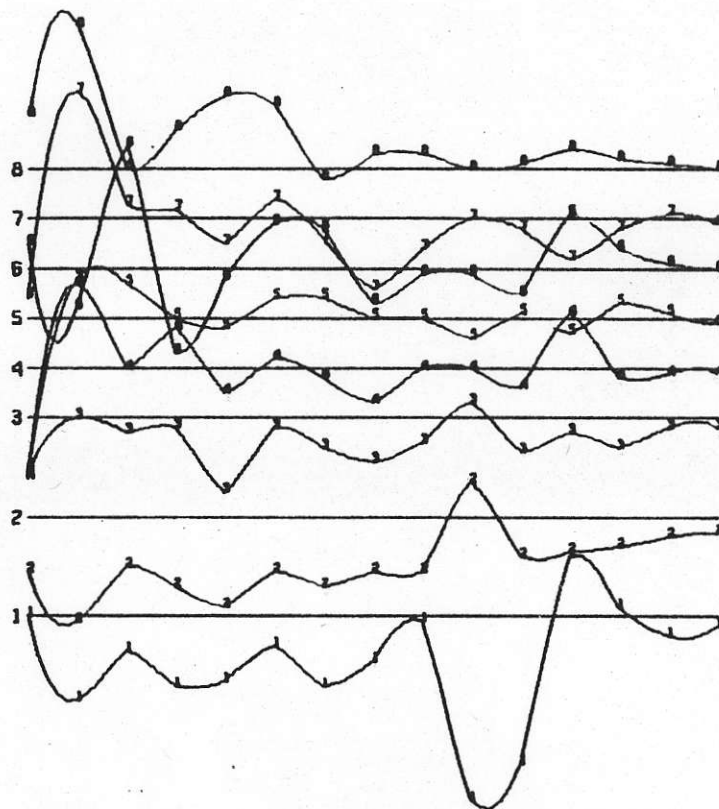
N.T.S. 92-8/13  
DATE 10 APRIL 1989

FIG. NO. 68

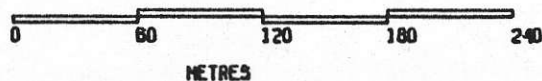


1080 N  
1050 N  
1020 N  
990 N  
960 N  
930 N  
900 N  
870 N  
840 N  
810 N  
780 N  
750 N  
720 N  
690 N  
660 N

LOOPS



+ OR -  
P.P.S.  
SCALE



NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT  
LINE 8000E S

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

N.T.S. 92-8/13

DATE 10 APRIL 1989

FIG.NO: 69

*Glen E. White*

GEOPHYSICAL CONSULTING & SERVICES LTD.

9251 Beckwith Road, Richmond, British Columbia, V6X 1V7

Telephone: (604) 273-6962

May 28, 1980

Mr. P. Ronning  
Project Geologist  
Serem Ltd.  
300 - 535 Thurlow St.  
Vancouver, B. C.  
V6E 3L2

Dear Mr. Ronning:

Enclosed please find Figures 70 - 81 which cover the vector pulse electromagnetometer component sections over lines 4400E to 6400E from loop J. The crossover detected on line 6400E from loop S was confirmed from loop J; however, the response is largely a channel 1 deflection and thus is likely of lithologic cause. This response continues to line 6000E. No significant responses were obtained on lines 5600E to 4400E.

Yours truly,



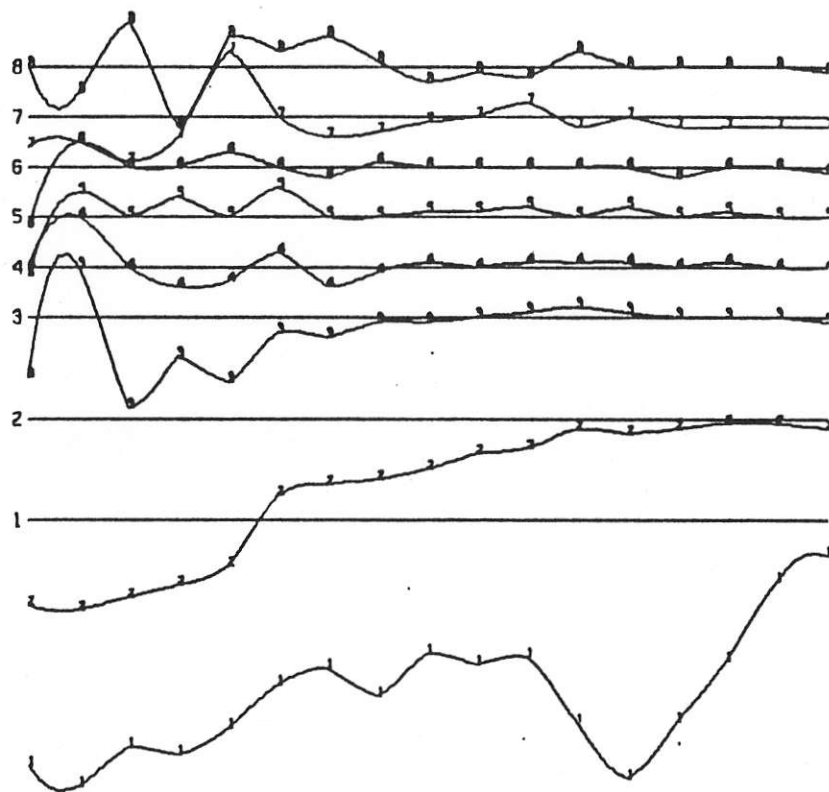
Glen E. White, B.Sc., P. Eng.  
Consulting Geophysicist

GW/kw

encl/

1170 N 1140 N 1110 N 1080 N 1050 N 1020 N 990 N 960 N 930 N 900 N 870 N 840 N 810 N 780 N 750 N 720 N 690 N

LOOP T



0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
200  
300

+ DR -  
P.P.E.  
SCALE

0 60 120 180 240  
METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

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MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 6400E T

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

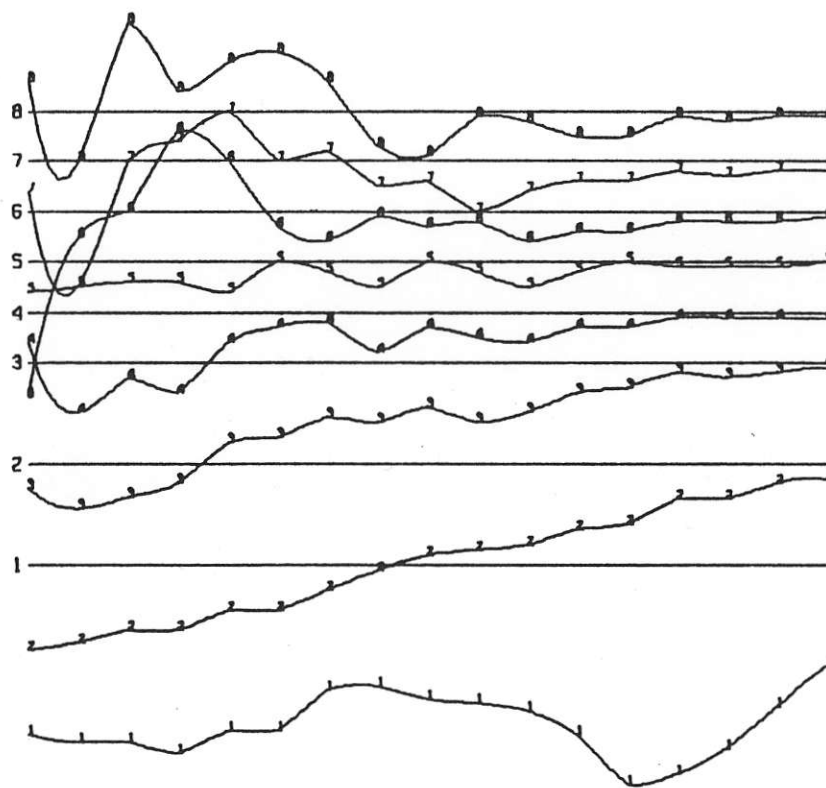
N.T.S. 92-8/13

DATE 7 MAY 1988

FIG. NO: 70

1170 N  
1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
990 N  
960 N  
930 N  
900 N  
870 N  
840 N  
810 N  
780 N  
750 N  
720 N  
690 N

LOOPT



0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
200  
300

+ OR -  
P.P.K.  
SCALE

0 60 120 180 240  
METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

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MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT  
LINE 6400E T

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

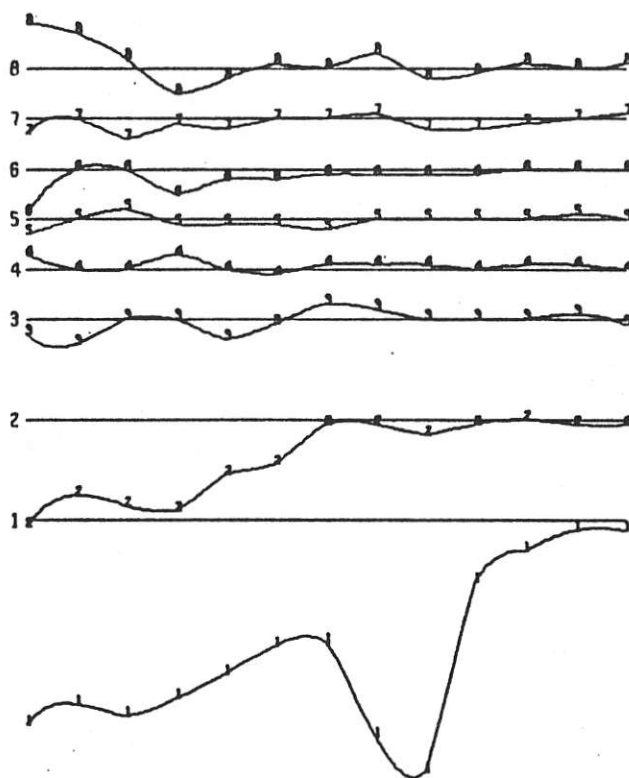
N.T.S. 92-8/13

DATE 7 MAY 1980

FIG.NO: 7/

1050 M  
1020 M  
990M  
960M  
930M  
900M  
870M  
840M  
810M  
780M  
750M  
720M  
690M

LOOP



0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
200  
300

+ OR -  
P.P.K.  
SCALE

0 60 120 180 240  
METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 6000E T

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

N.T.S. 92-8/13

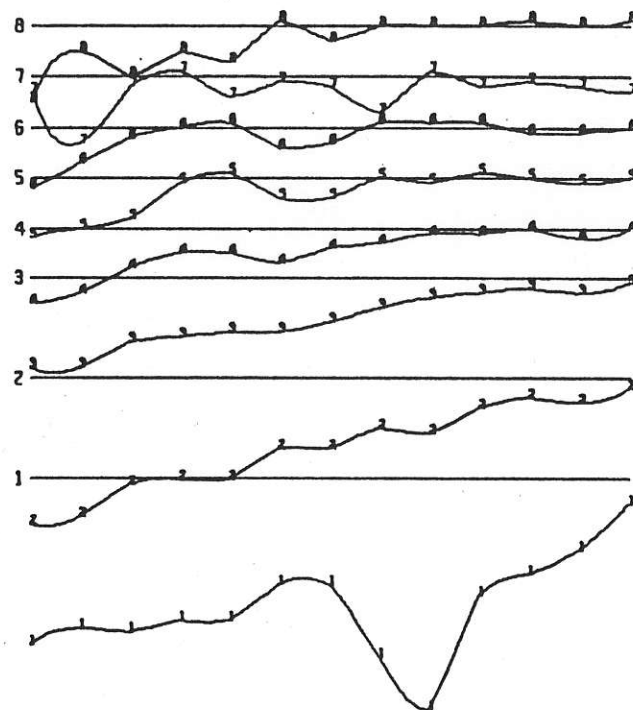
DATE 7 MAY 1988

FIG.NO: 72



1050 N  
1020 N  
990N  
960N  
930N  
900N  
870N  
840N  
810N  
780N  
750N  
720N  
690N

LOOP T



0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
200  
300

+ OR -  
P.P.K.  
SCALE

0 60 120 180 240

METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT  
LINE 6000E T

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

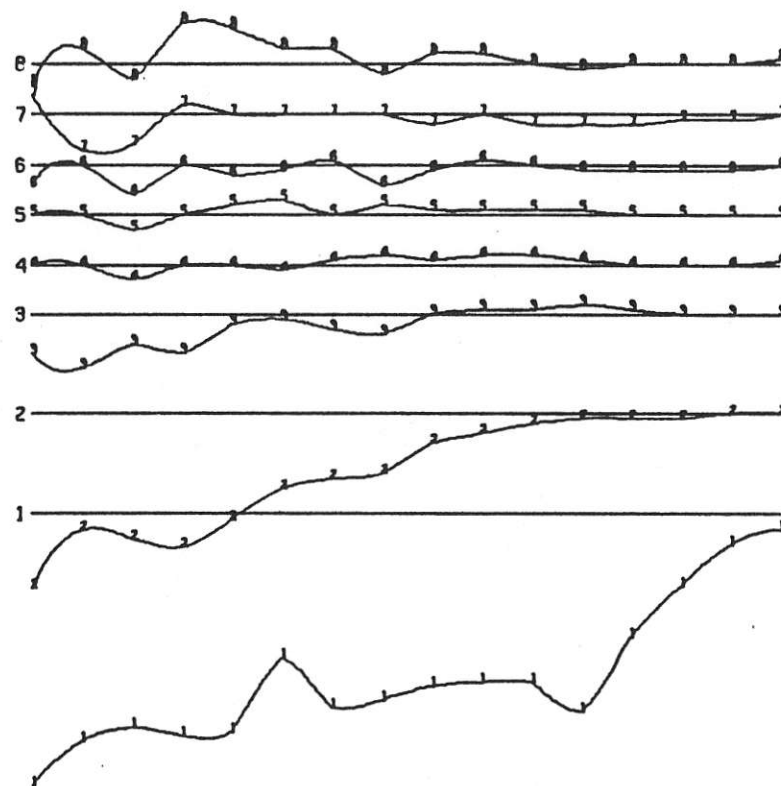
N.T.S. 92-8/13

DATE 7 MAY 1988

FIG.NO: 73

1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
990 N  
960 N  
930 N  
900 N  
870 N  
840 N  
810 N  
780 N  
750 N  
720 N  
690 N

LOOP T



0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
200  
300

+ OR -  
P.P.K.  
SCALE

0 60 120 180 240

METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 5600E T

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

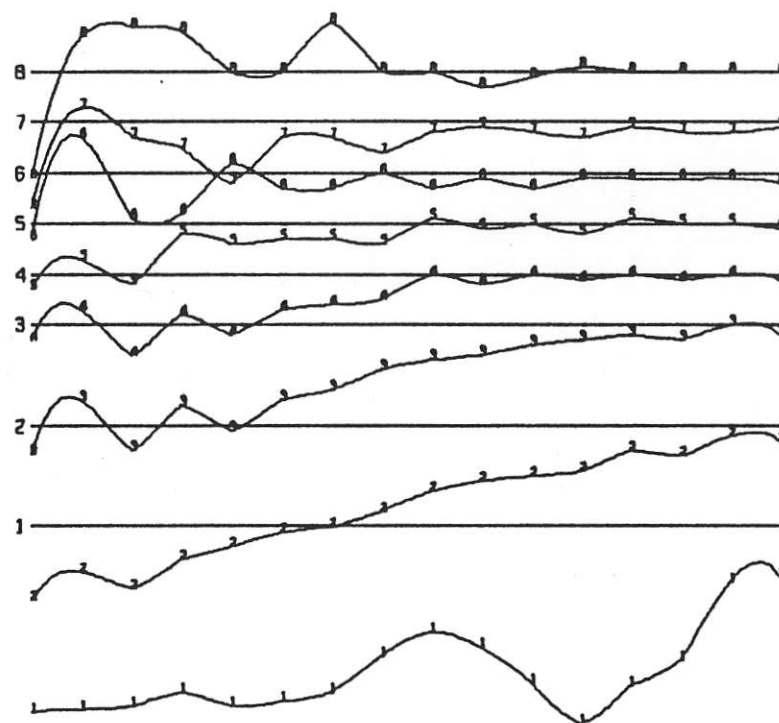
N.T.S. 92-B/13

DATE 7 MAY 1988

FIG. NO: 74

1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
990N  
960N  
930N  
900N  
870N  
840N  
810N  
780N  
750N  
720N  
690N

LOOP T



0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
200  
300

+ DR -  
P.P.K.  
SCALE

0 60 120 180 240  
METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

S E R E M LTD.

MT. SICKER PROJECT

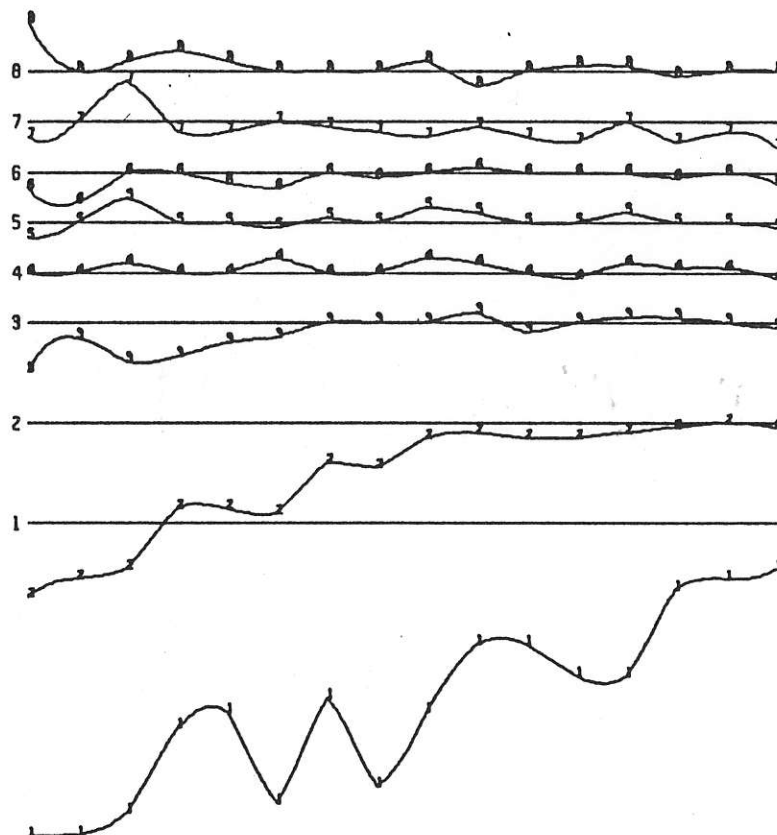
VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT  
LINE 5600F T

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

N.T.S. 92-8/13  
DATE 7 MAY 1980  
FIG.NO: 75

1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
990N  
960N  
930N  
900N  
870N  
840N  
810N  
780N  
750N  
720N  
690N

LOOP T



+ OR -  
P.P.K  
SCALE

0 60 120 180 240

METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.N.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
HORIZONTAL COMPONENT  
LINE 5200E T

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

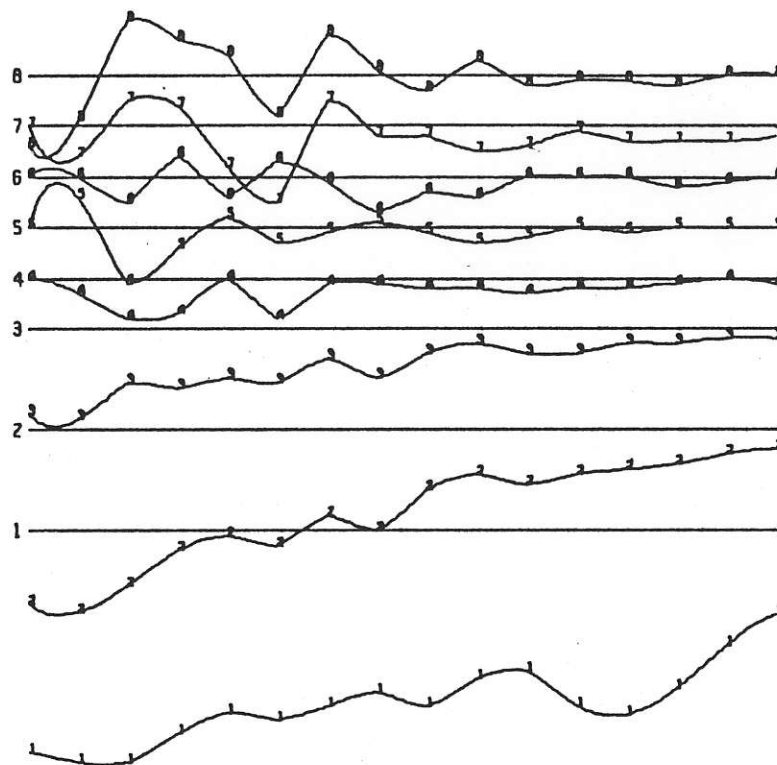
N.T.S. 92-8/13

DATE 7 MAY 1988

FIG.NO: 76

1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
990 N  
960 N  
930 N  
900 N  
870 N  
840 N  
810 N  
780 N  
750 N  
720 N  
690 N

LOOP T



0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
200  
300

+ OR -  
P.P.K.  
SCALE

0 60 120 180 240  
METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

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MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT  
LINE 5200E T

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

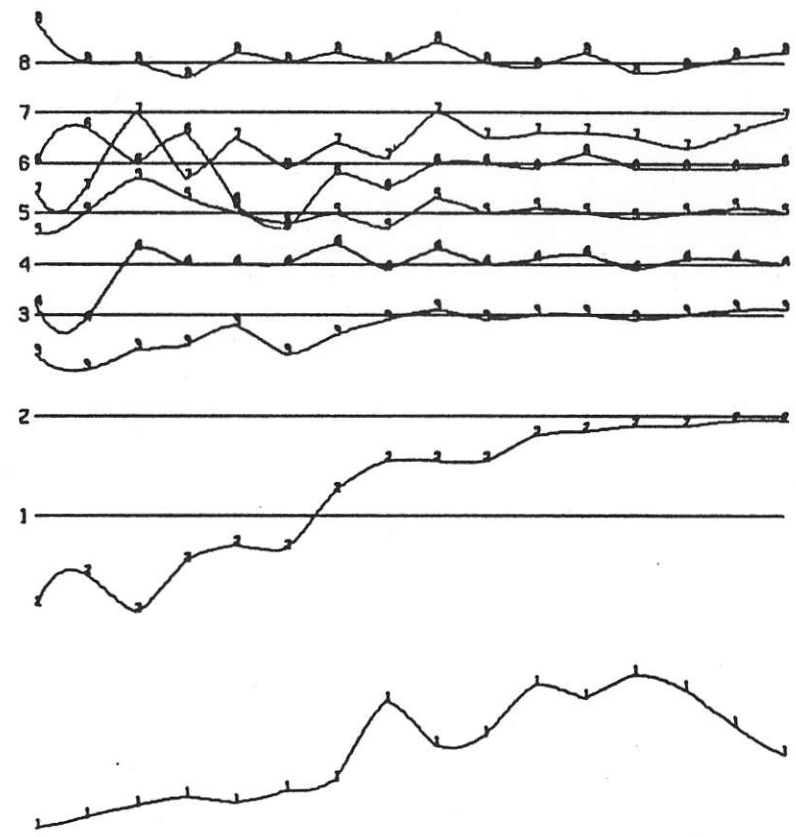
N.T.S. 92-8/13

DATE 7 MAY 1988

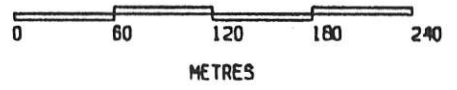
FIG.NO: 77

1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
990 N  
960 N  
930 N  
900 N  
870 N  
840 N  
810 N  
780 N  
750 N  
720 N  
690 N

LOOP T



+ OR -  
P.P.K  
SCALE



NUMBER IN THE LINE = CHANNEL NUMBER

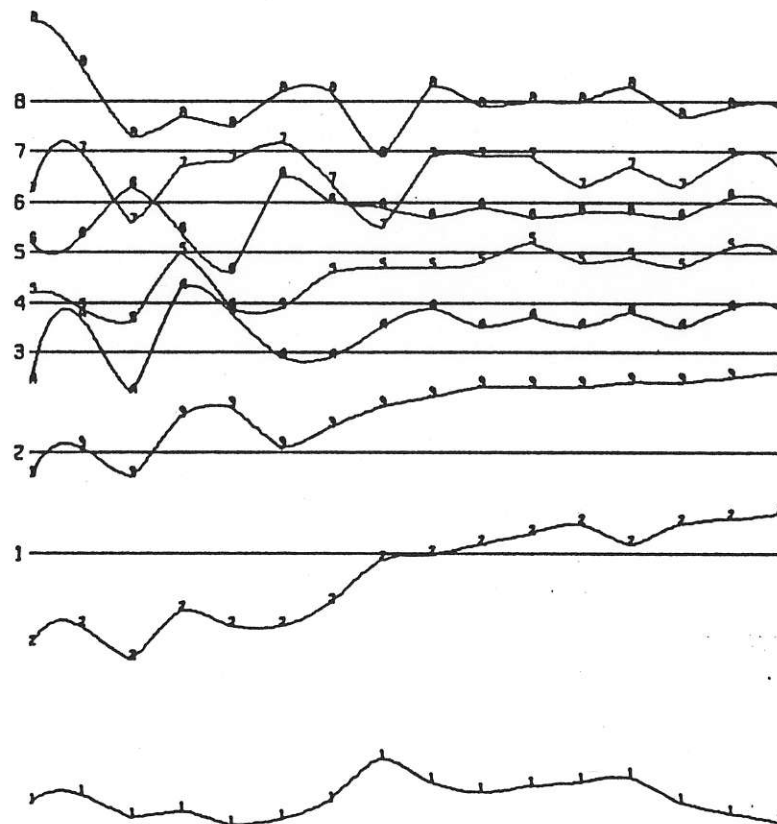
INSTRUMENT: CRONE P.E.M.

|                                        |                 |
|----------------------------------------|-----------------|
| S E R E M LTD.                         |                 |
| MT. SICKER PROJECT                     |                 |
| VECTOR PULSE ELECTROMAGNETOMETER       |                 |
| HORIZONTAL COMPONENT                   |                 |
| LINE 4800E                             | T               |
| GLEN E. WHITE                          |                 |
| GEOPHYSICAL CONSULTING & SERVICES LTD. |                 |
| N.T.S. 92-8/19                         | DATE 7 MAY 1988 |
| FIG.NO: 78                             |                 |



1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
990N  
960N  
930N  
900N  
870N  
840N  
810N  
780N  
750N  
720N  
690N

LOOPT



0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
200  
300

+ OR -  
P.P.E.  
SCALE

0 60 120 180 240  
METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT

LINE 4800E T

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

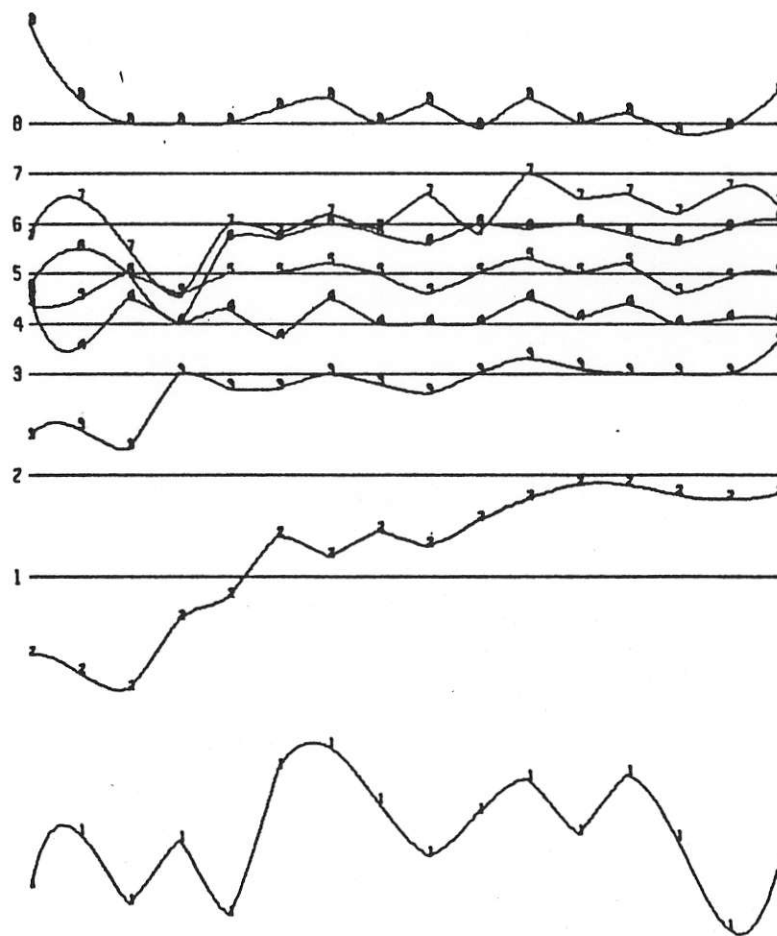
N.T.S. 92-8/19

DATE 7 MAY 1988

FIG. NO: 79

1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
990 N  
960 N  
930 N  
900 N  
870 N  
840 N  
810 N  
780 N  
750 N  
720 N  
690 N

LOOPPT



0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100  
200  
300  
+ DR -  
P.P.K.  
SCALE

0 60 120 180 240  
METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.M.

S E R E M L T D .

M T . S I C K E R P R O J E C T

V E C T O R P U L S E E L E C T R O M A G N E T O M E T E R  
H O R I Z O N T A L C O M P O N E N T  
L I N E 4 4 0 0 E T

G L E N E . W H I T E  
G E O P H Y S I C A L C O N S U L T I N G  
& S E R V I C E S L T D .

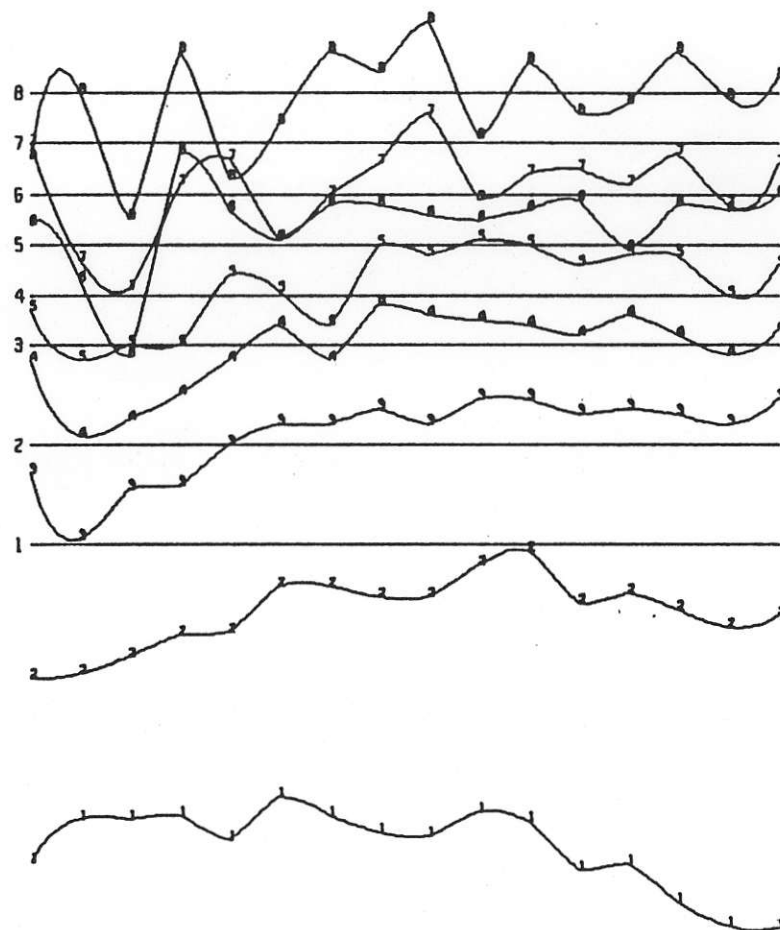
N . T . S . 9 2 - 8 / 1 3

D A T E 7 M A Y 1 9 8 8

F I G . N O : 8 0

1140 N  
1110 N  
1080 N  
1050 N  
1020 N  
990 N  
960 N  
930 N  
900 N  
870 N  
840 N  
810 N  
780 N  
750 N  
720 N  
690 N

LOOPT



0  
10  
20  
30  
40  
50  
60  
70  
80  
90  
100

+ DR -  
P.P.K.  
SCALE

0 60 120 180 240  
METRES

NUMBER IN THE LINE = CHANNEL NUMBER

INSTRUMENT: CRONE P.E.N.

S E R E M LTD.

MT. SICKER PROJECT

VECTOR PULSE ELECTROMAGNETOMETER  
VERTICAL COMPONENT  
LINE 4400E T

GLEN E. WHITE  
GEOPHYSICAL CONSULTING  
& SERVICES LTD.

N.T.S. 92-8/13

DATE 7 MAY 1988

FIG.NO: 81



