

680276

Glen E. White

GEOPHYSICAL CONSULTING & SERVICES LTD.

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Telephone: (604) 273-6962

October 11, 1977

Mr. Bert Reeve
Castlemaine Explorations Ltd.
904 - 675 W. Hastings St.
Vancouver, B. C.

Dear Bert:

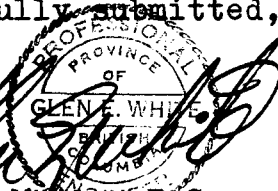
Enclosed please find four (4) Figures 1 - 4 which describe the PEM test on your Mt. McClennan property. The test was conducted October 3 - 5, 1977.

Figure 1 illustrates a sketch map of the test area. Figure 2 illustrates the PEM profile over Line 0 with a 50 m separation. A good flat-lying conductor was detected at 0 / 25 N. The surface showing is at 0 / 10 N. Figure 3 shows a portion of the same line with a 75 m separation. Here the negative trend develops a small center positive inflection which indicates the conductor is shallow with respect to the separation distance.

A vertical test profile was then undertaken over the area of interest where the vertical and horizontal vectors were measured and the resultant component plotted. This is illustrated in Figure 5, where the eddy current positions indicate a good conductor centered at 0 / 25 N at a depth of 15 meters. A shallow conductor appears near 0 / 30 N at a depth of 8 m. This conductor could be a downward extension of the surface showing. A deeper conductor is suggested at a depth of 27 m at 0 / 25 N.

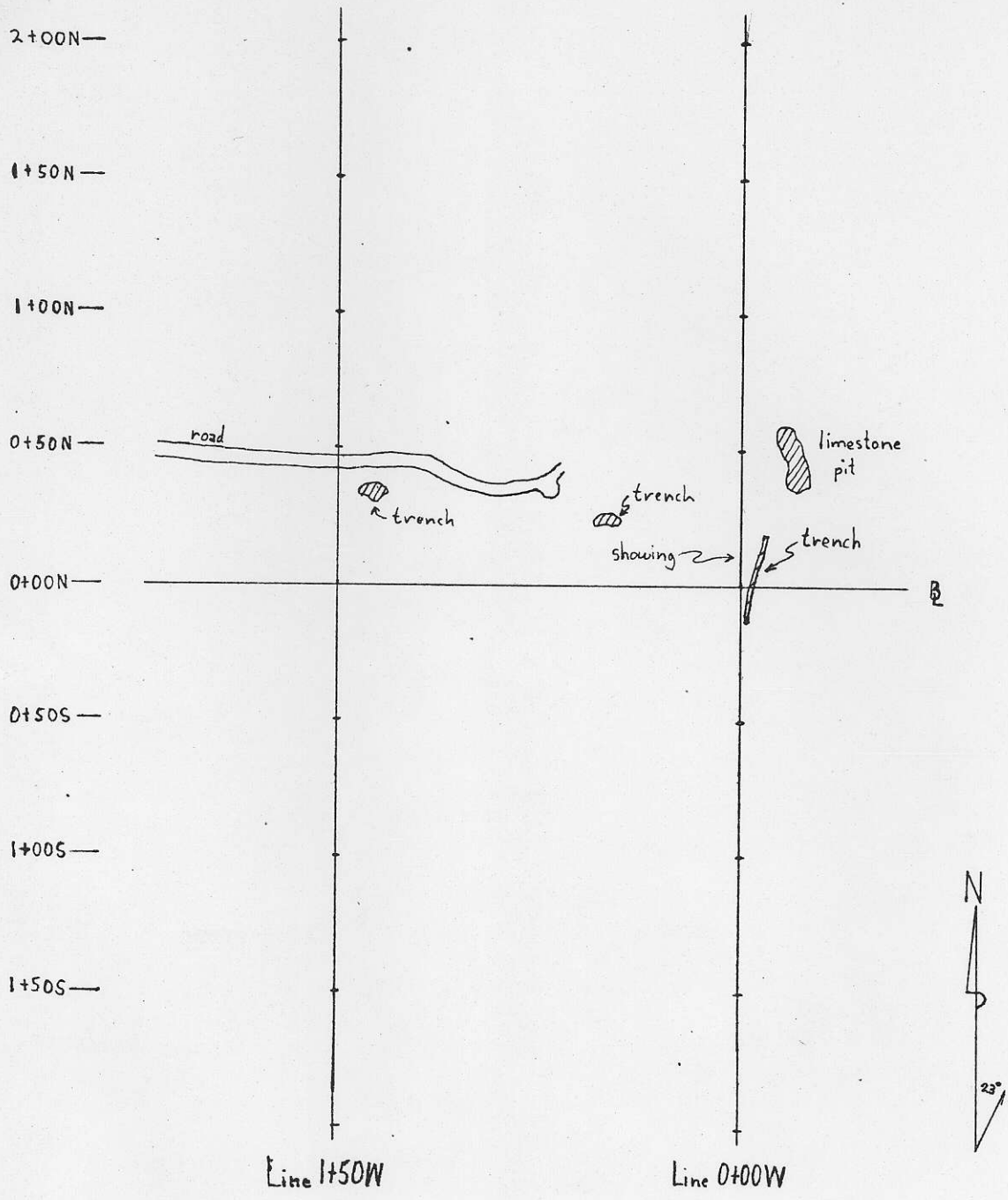
Figure 4 shows test line 1 / 50 W where an apparent edge effect from a nearby conductor is indicated at 1 / 50 N.

Respectfully submitted,


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

GW/kw

encl/



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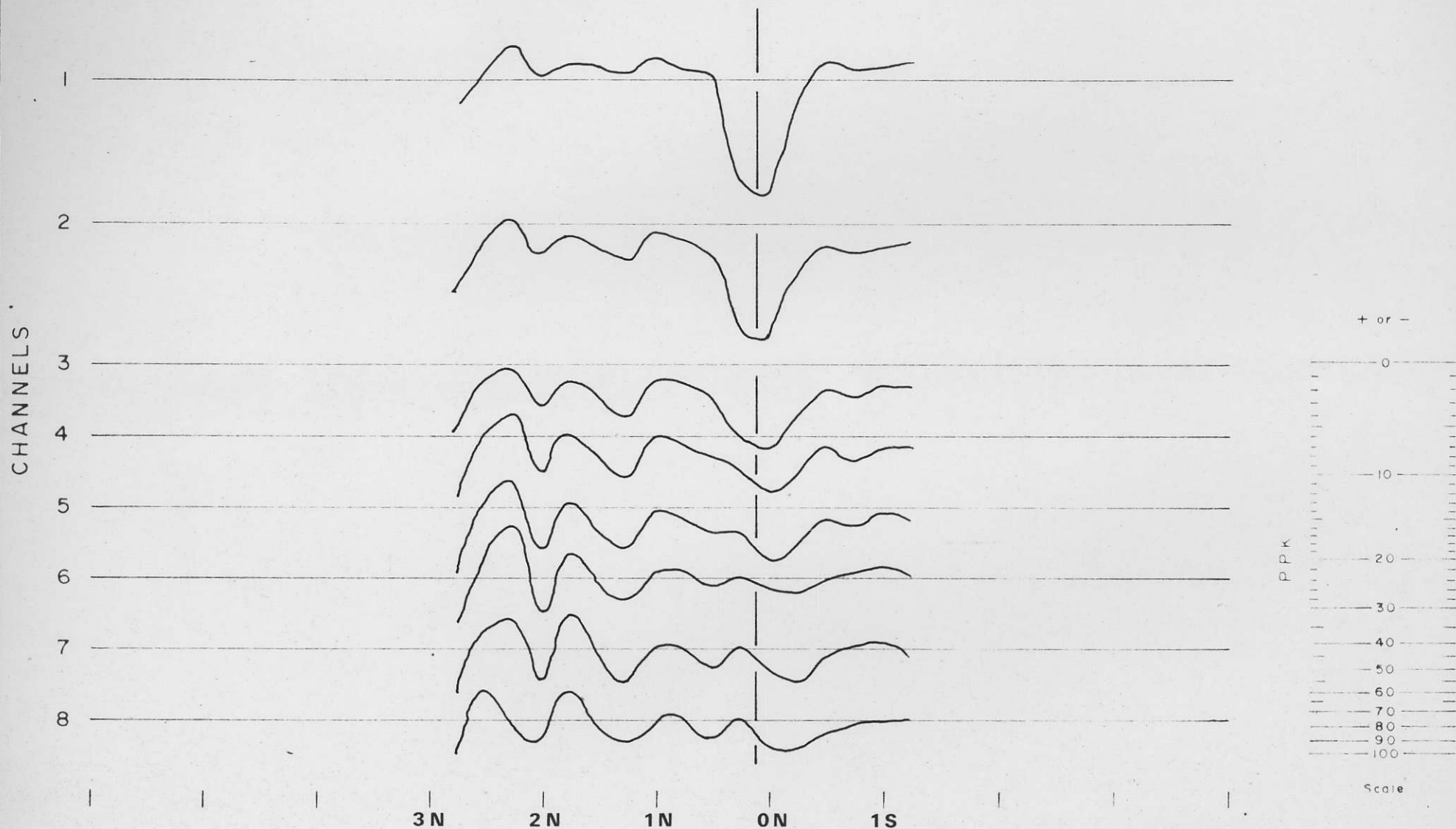
PEM TEST SURVEY GRID

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scale: 1cm. = 25 m.

fig. 1

LINE 0+0W
INSTRUMENT : CRONE P.E.M.



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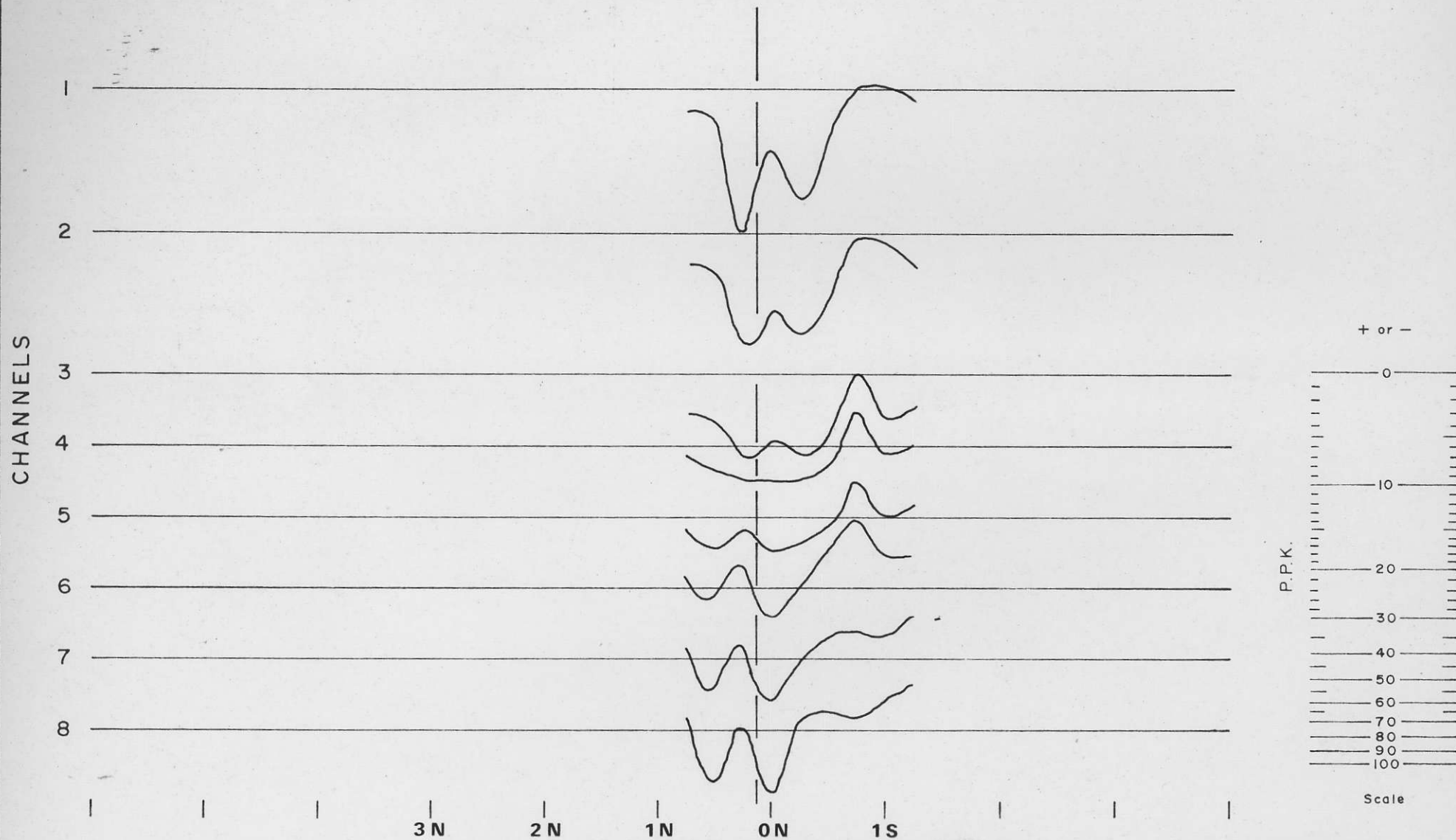
PULSE ELECTROMAGNETOMETER
SEPARATION 50 METRES

SCALE : 1cm = 50m NTS. 82M/12

FIG 2

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LINE 0+0W
INSTRUMENT : CRONE P.E.M.



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PULSE ELECTROMAGNETOMETER
SEPARATION 75 METRES

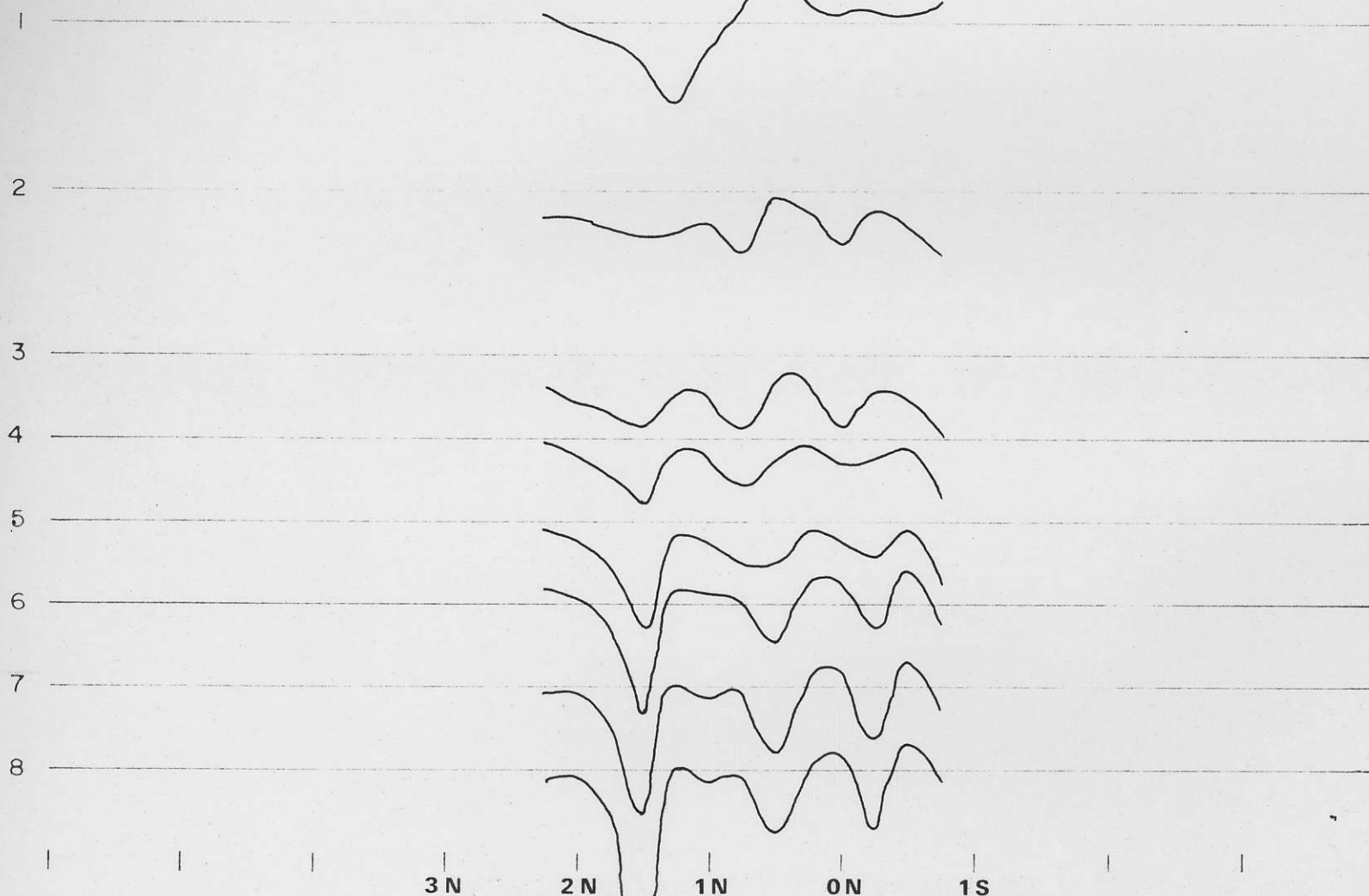
SCALE : 1cm = 50 m N.T.S. 82M/12

FIG. 3

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LINE 1+5W
INSTRUMENT CRONE P.E.M.

CHANNELS



3N 2N 1N 0N 1S

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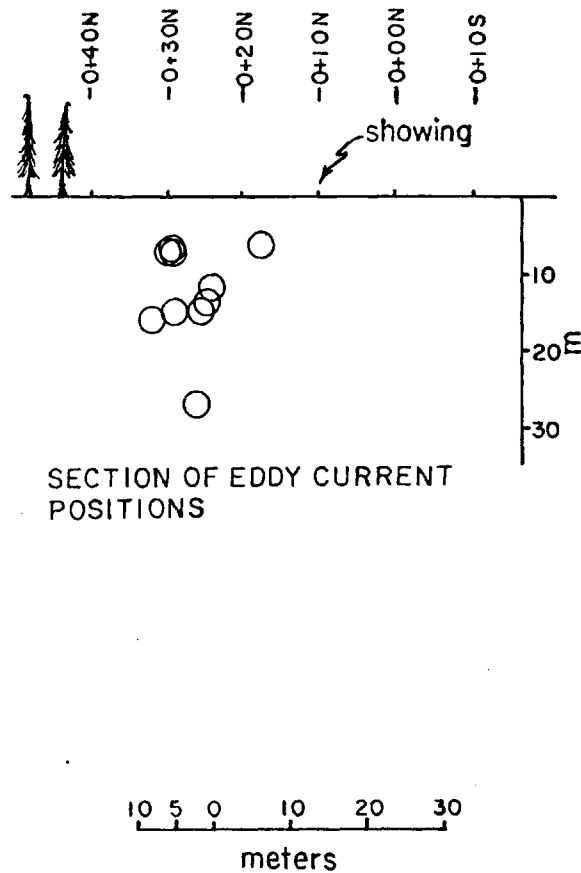
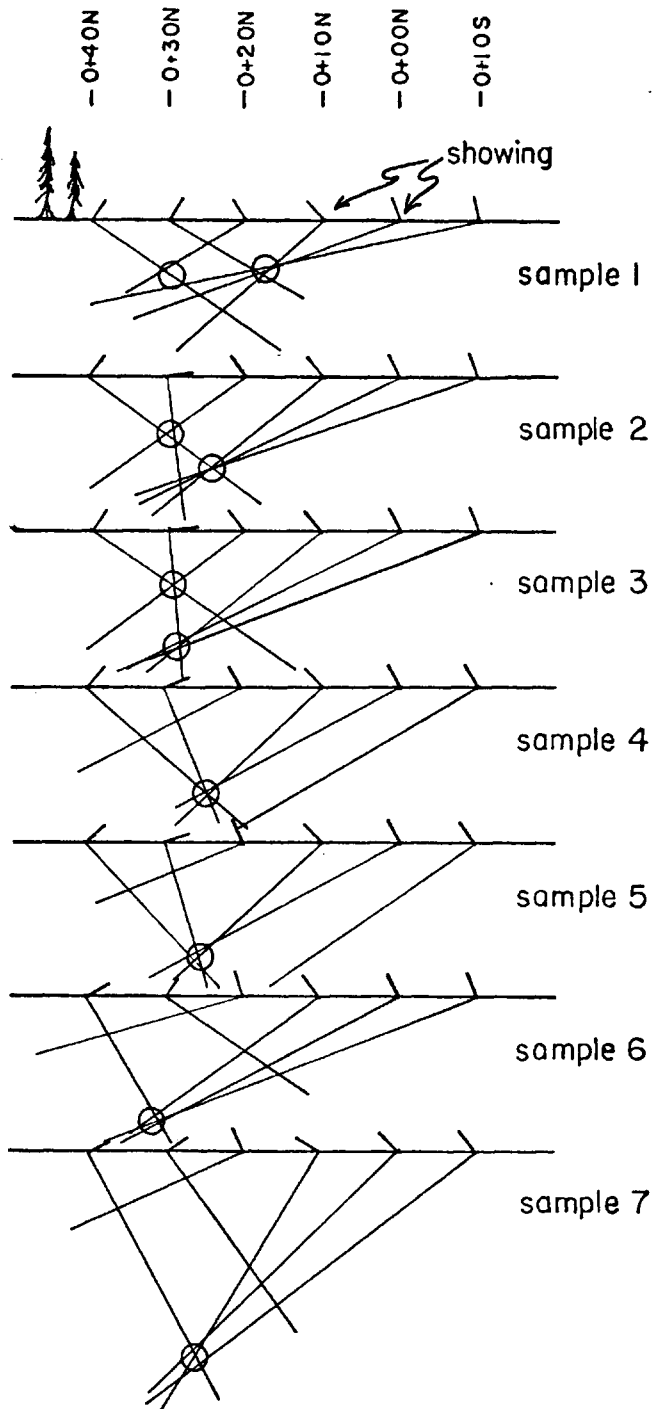
PULSE ELECTROMAGNETOMETER

SEPARATION 50 METRES

SCALE: 1cm = 50m NTS 82M/12

FIG 4

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VERTICAL LOOP PEM PROFILE

LINE 0+00W

fig.5

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