

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:

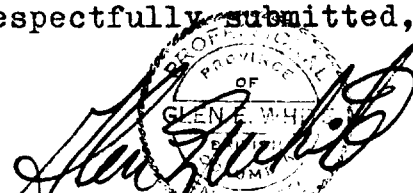
Enclosed please find four (4) Figures 1 - 4 which describe the PEM test on your Mt. McClellan property. The test was conducted October 3 - 5, 1977.

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 $0 \neq 25$ N. The surface showing is at $0 \neq 10$ 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 $0 \neq 25$ N at a depth of 15 meters. A shallow conductor appears near $0 \neq 30$ 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 $0 \neq 25$ N.

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

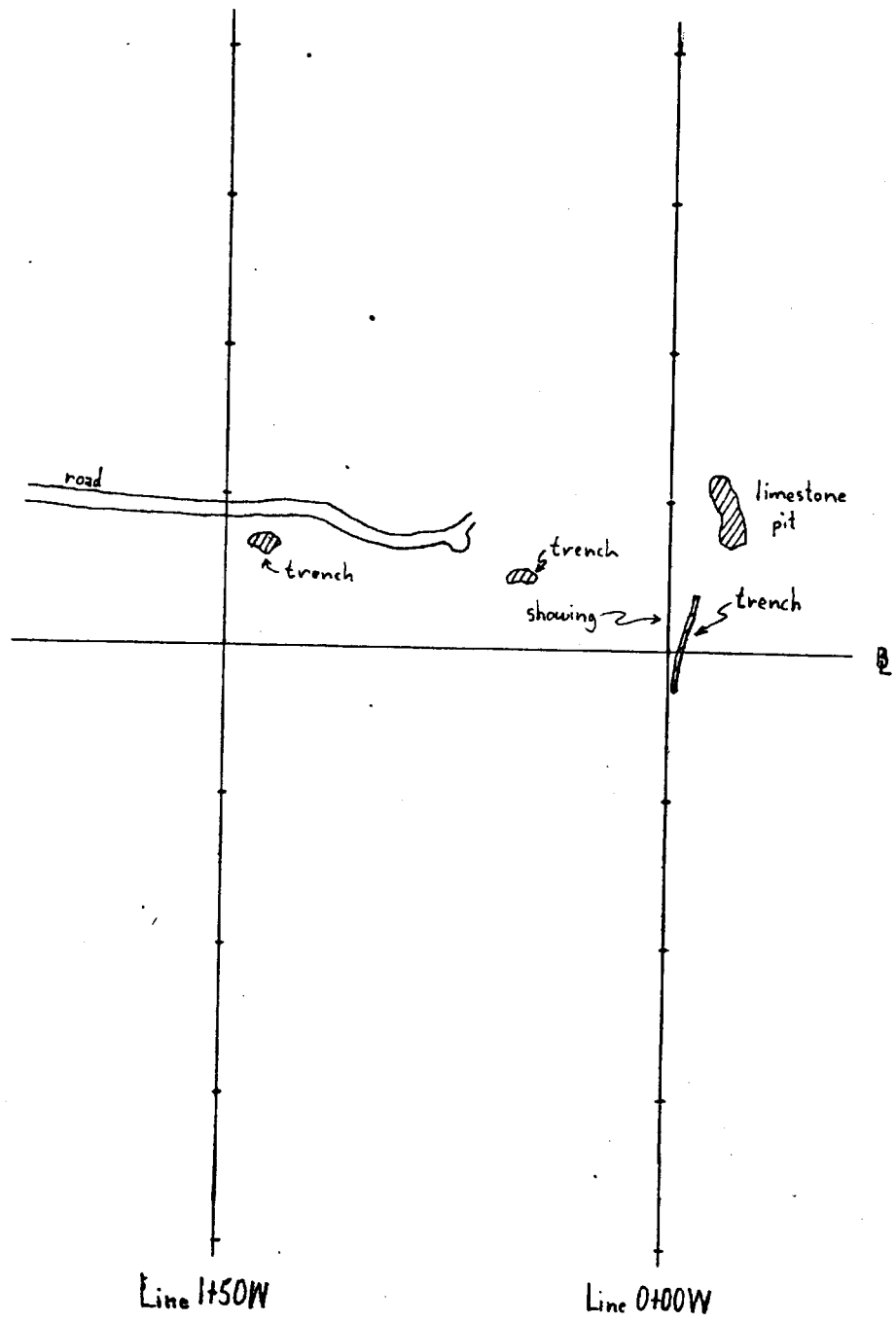
Respectfully submitted,


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

GW/kw

encl/

2+00N —
1+50N —
1+00N —
0+50N —
0+00N —
0+50S —
1+00S —
1+50S —



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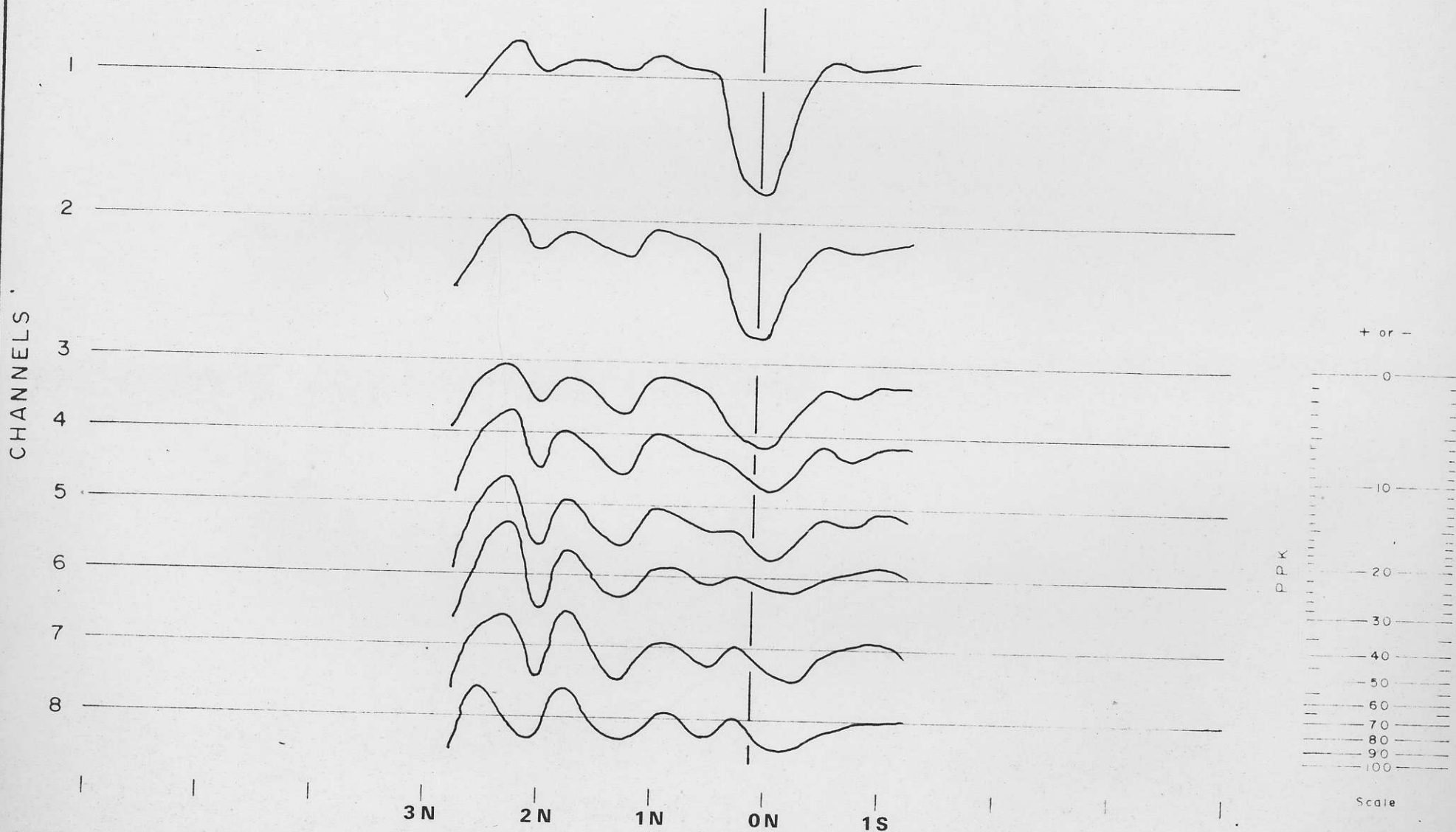
PEM TEST SURVEY GRID

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scale: 1 cm. = 25 m.

fig. 1

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



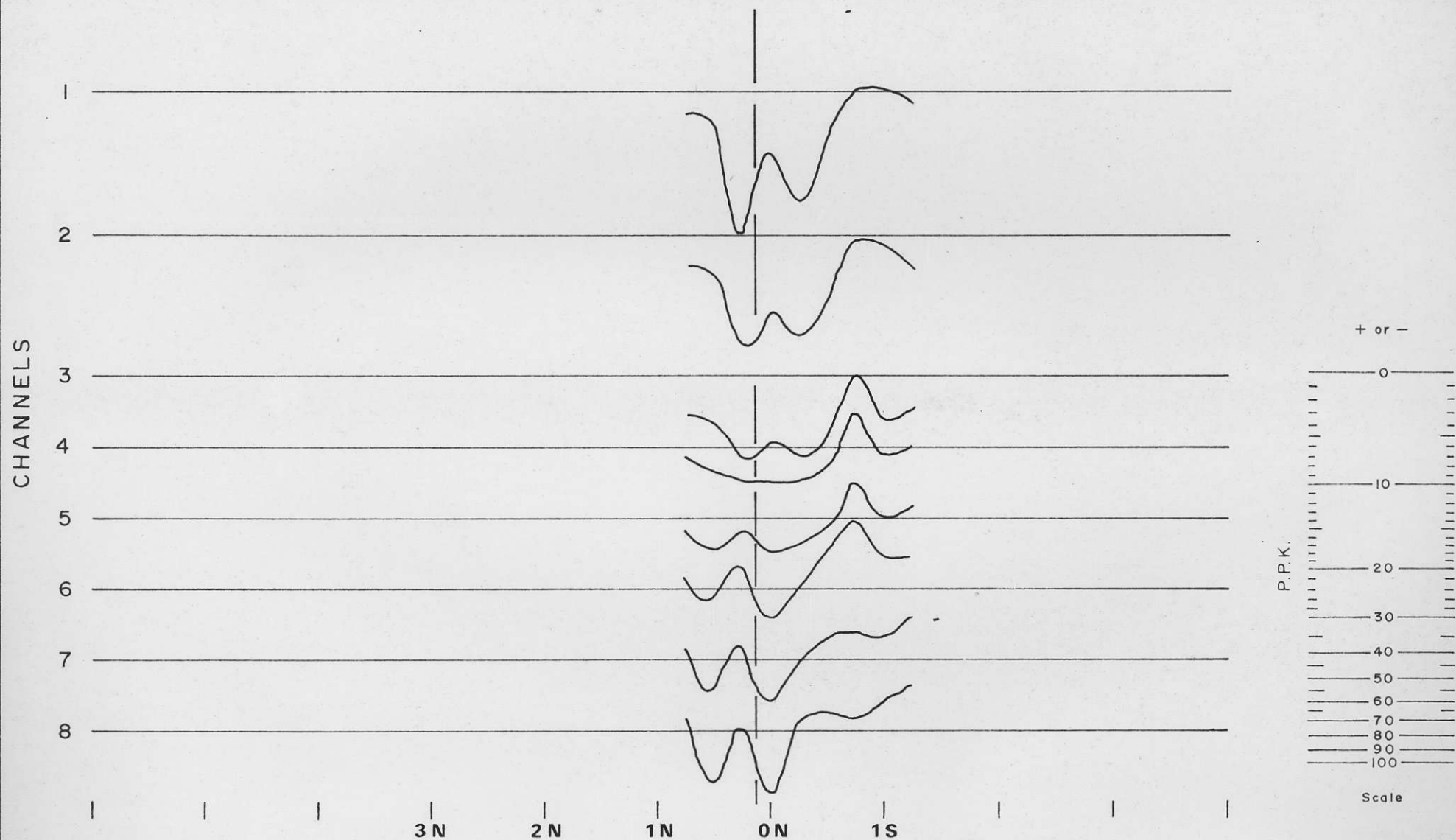
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PULSE ELECTROMAGNETOMETER
SEPARATION 50 METRES

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

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



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PULSE ELECTROMAGNETOMETER
SEPARATION 75 METRES

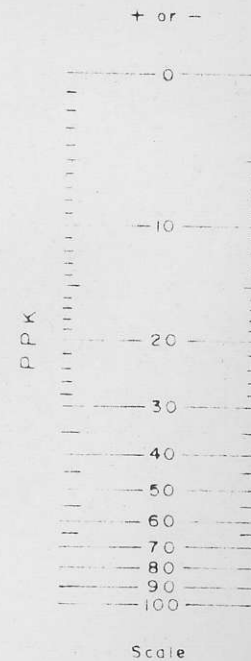
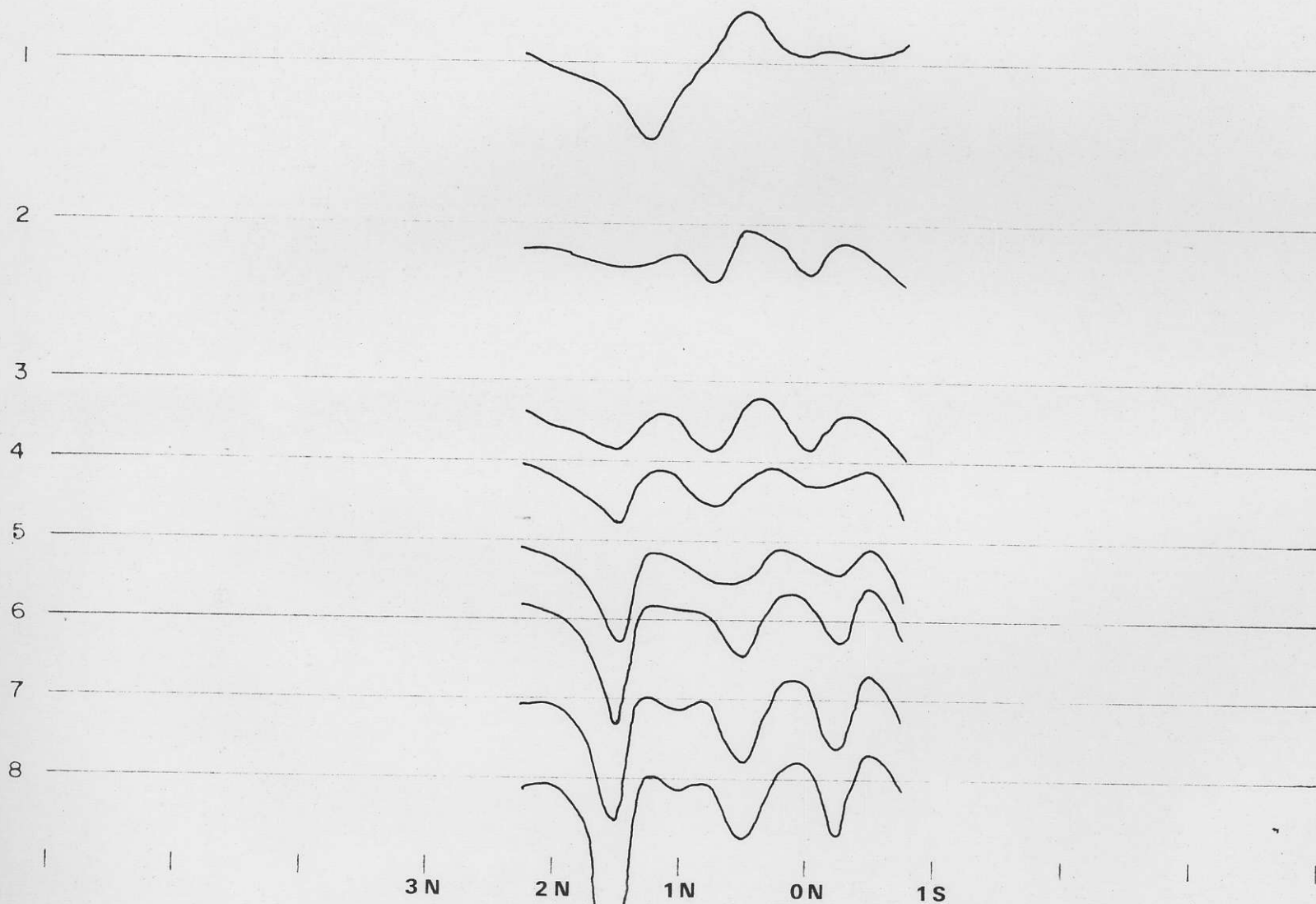
SCALE : 1cm = 50 m N.T.S. 82M/12

FIG. 3

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

CHANNELS



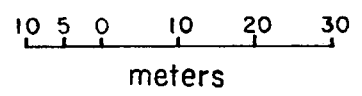
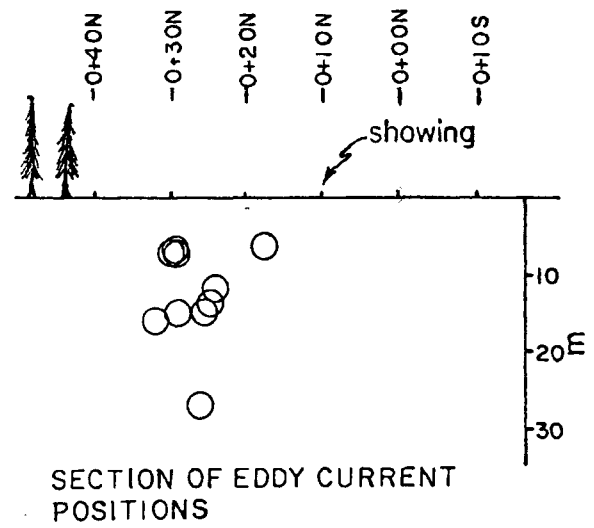
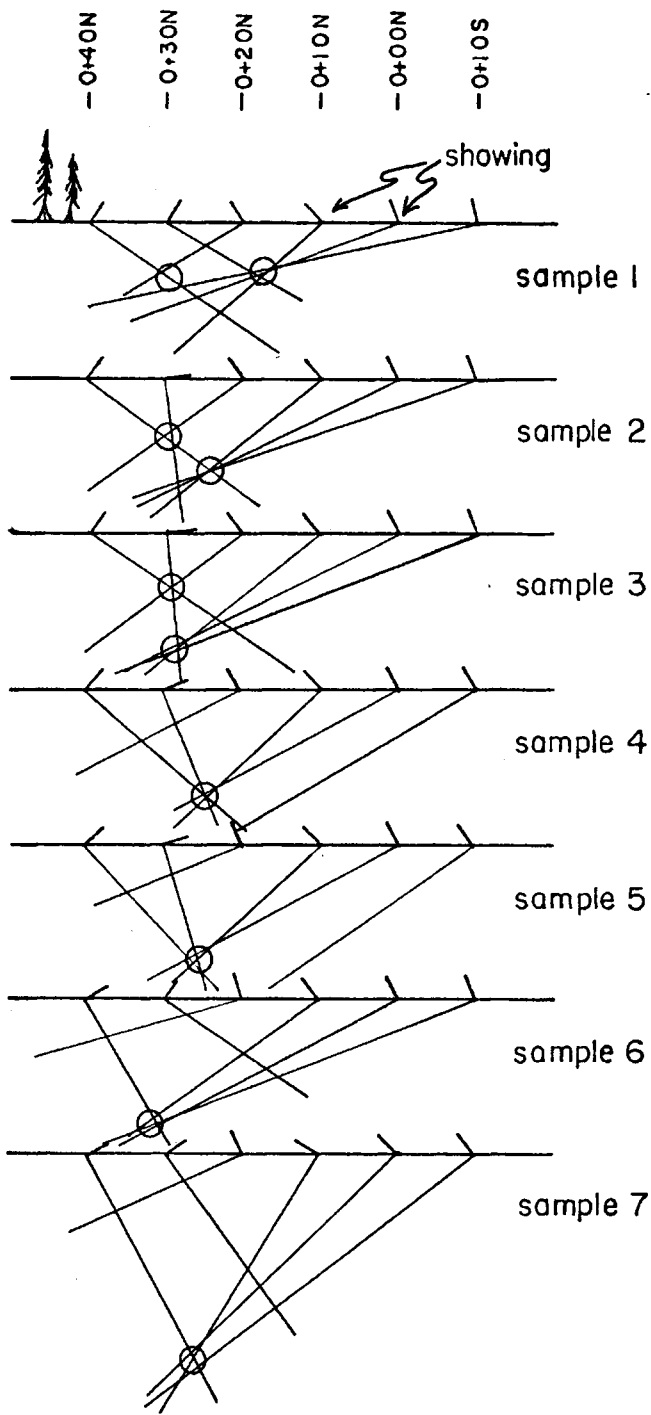
CASTLEMAINE EXPLORATIONS LTD.

PULSE ELECTROMAGNETOMETER
SEPARATION 50 METRES

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

FIG 4

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CASTLEMAINE EXPLORATIONS LTD.
VERTICAL LOOP PEM PROFILE

LINE 0+00W

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fig.5