

80-#32-#7850

ASSESSMENT REPORT  
 ON THE RESULTS OF  
 A DETAILED VLF ELECTROMAGNETIC AND  
 HORIZONTAL LOOP ELECTROMAGNETIC SURVEY  
 ON PART OF THE  
 DAVE 1155 [3] AND "A" 1156 [3] CLAIMS  
 AFTON-CHERRY CREEK AREA  
 KAMLOOPS MINING DIVISION  
 KAMLOOPS, BRITISH COLUMBIA  
 N. Lat. 50°38'                      W. Long. 120°33'

for  
 DORADO RESOURCES LTD.  
 Suite 800, 543 Granville Street  
 543 Granville Street  
 Vancouver, British Columbia

by  
 DONALD W. TULLY, P. ENG.

MINERAL RESOURCES BRANCH  
 ASSESSMENT REPORT  
**7850**  
 NO.  
**PART 2862**

April 17, 1979

West Vancouver, B.C.

DON TULLY ENGINEERING LTD.  
 SUITE 102 - 2222 BELLEVUE AVENUE  
 WEST VANCOUVER, BRITISH COLUMBIA  
 V7V 1C7

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Informational Sections.....[End of Report]

\* \* \* \* \*



DORADO  
RESOURCES  
LIMITED

FIGURE 1  
LOCATION MAP

*Dorado Resources Limited*

## INTRODUCTION

This assessment report was prepared pursuant to a request by Dorado Resources Ltd., Suite 800, 543 Granville Street, Vancouver, British Columbia.

The purpose of this report is to appraise and summarize the results of a detailed investigation of an apparent conductor zone located during a VLF electromagnetic reconnaissance survey done during late February and early March, 1979.

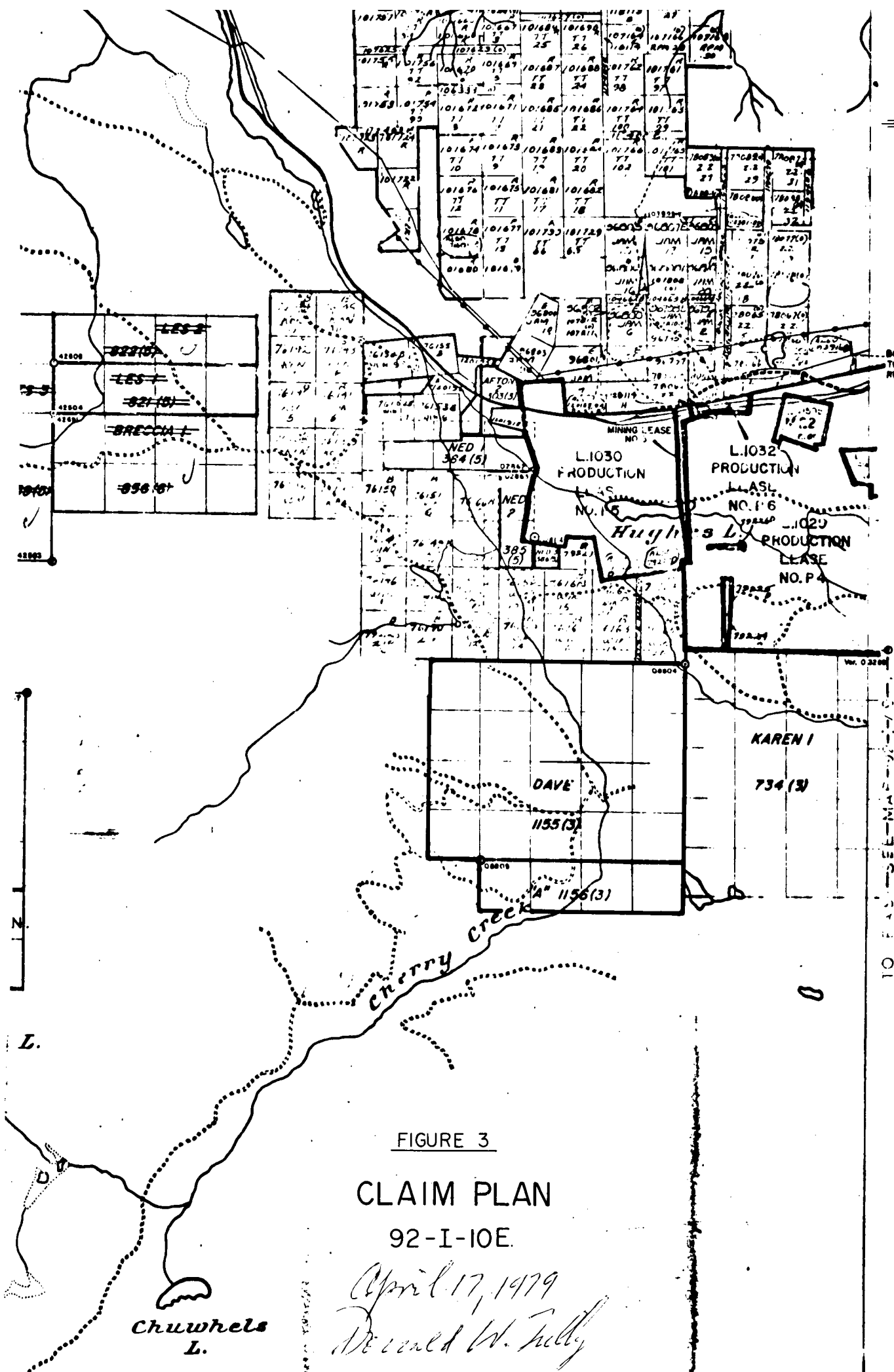
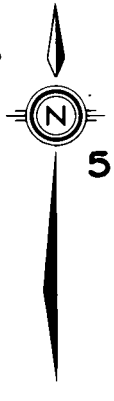
The period of the field work during the present investigation was March 29, 1979 through April 5, 1979 inclusive. The writer was assisted in performing the field work by Rick Kendal, Savona, British Columbia and Uno Leis, #113 - 15245 - 105th Street, Surrey, British Columbia.

## SUMMARY AND CONCLUSIONS

The DAVE and "A" claims comprise twenty-four contiguous claim units, located about a kilometre south of the Afton Mines property astride Cherry Creek some 15 kilometres west of Kamloops, British Columbia [Figure 1].

Volcanics belonging to the Nicola and the overlying Kamloops group of rocks cover the property. Considerable overburden occupies the north part of the DAVE claims.

Previous development work as a result of a reconnaissance VLF electromagnetic survey indicated an apparent conductor in the vicinity of Cherry Creek. Because of the proximity of the apparent conductor area to Cherry Creek it



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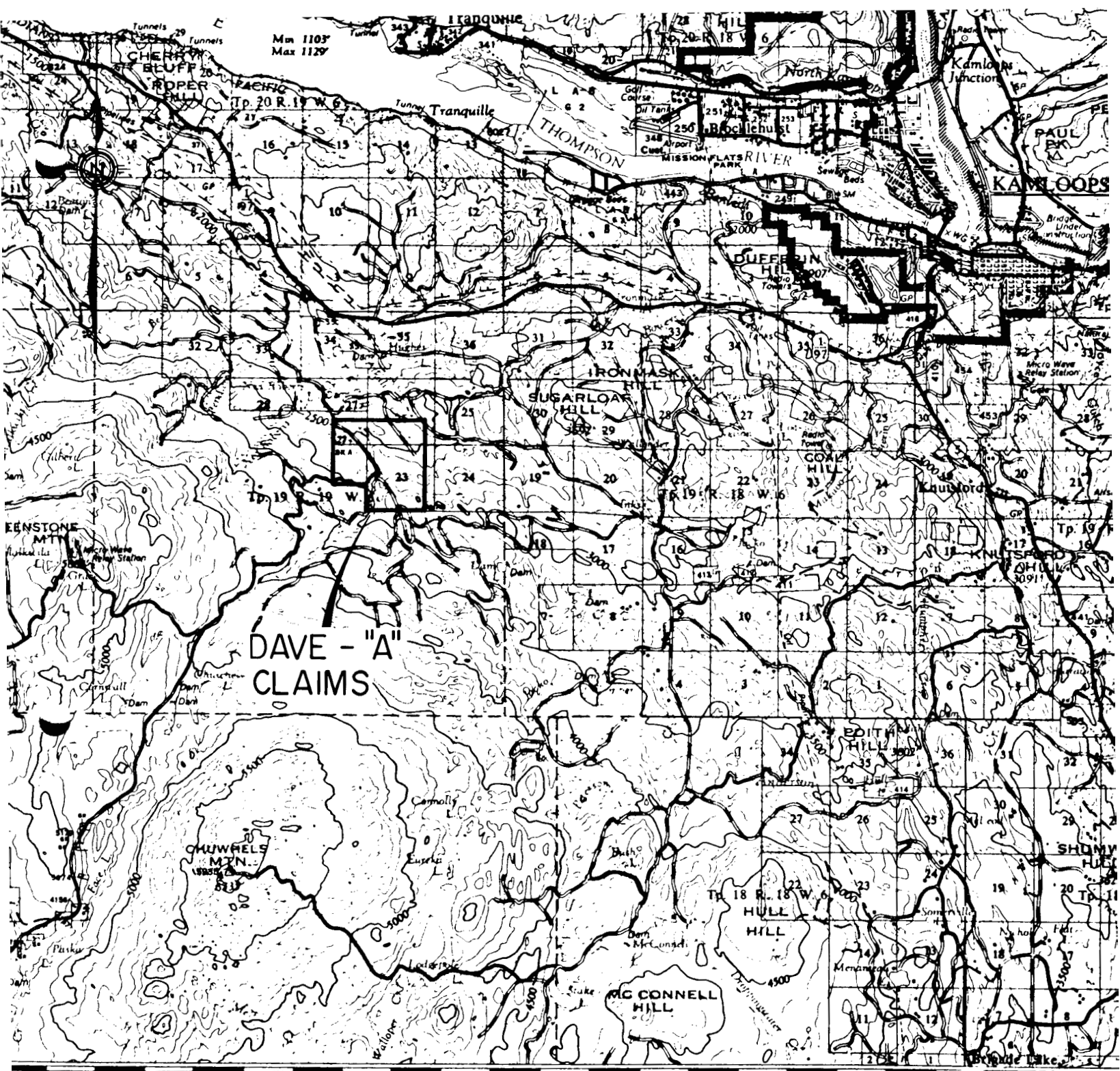
CROWN-GRANTED MINERAL CLAIM  
REVERTED CG. MINERAL CLAIM  
FORFEITED MINERAL CLAIM  
VERIFIED LEGAL CORNER POST  
LEGAL SURVEY  
LEGAL CORNER POST & TAG NUMBER GIVEN

Miles 1 0.5 0  
Metres 1000 500 0  
Kilometres 1 0.5 0  
2 Miles  
3000 Metres  
3 Kilometres

FIGURE 3

CLAIM PLAN  
92-I-10E.

April 17, 1979  
Donald W. Kelly

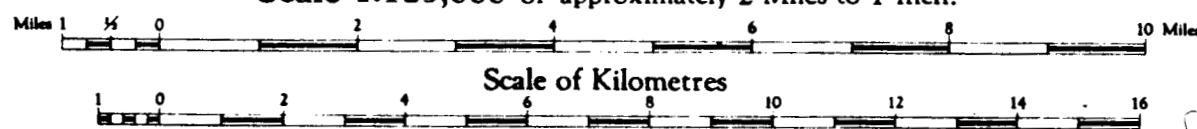


30'

# KAMLOOPS LAKE

BRITISH COLUMBIA  
 KAMLOOPS DIVISION OF YALE LAND DISTRICT  
 Scale 1:125,000 or approximately 2 Miles to 1 Inch.

FIGURE 2  
 TOPOGRAPHIC  
 & LAND  
 DIVISION MAP



Magnetic Declination approximately 23°10' East at centre of map, 1968.  
 Decreasing approximately 3'10" annually.

April 17, 1979  
 Donald W. Jolly

was decided to further detail the anomalous area and check the conductive zone by a horizontal loop electromagnetic method.

The results of the horizontal loop test confirmed the presence of the VLF electromagnetic conductor. Further horizontal loop work would in all likelihood extend the indicated conductive zone. A diamond drill test is recommended.

The total cost of the work performed in the detailed VLF and horizontal loop electromagnetic tests was \$6,139.25.

#### PROPERTY - LOCATION, ACCESS, TOPOGRAPHY

The property comprises two mineral claims totalling twenty-four units. The DAVE claim contains 20 units and the "A" claim has four units. These claims are located astride Cherry Creek about one mile south of the AFTON mine orebody and some 15 kilometres west of Kamloops, British Columbia [Figure 2].

Access is from the hamlet of Cherry Creek on the Trans-Canada Highway southward along the Dominic Lake gravel road. The distance to the north boundary of the DAVE claim is about 5 kilometres.

Elevations vary over the property from a low of about 800 metres in the northeast part of the property to a high of some 1,100 metres above sea-level in the southwestern portion. Cherry Creek traverses the claims in a northerly drainage direction and affords ample water supply for any immediate industrial need. The water rights on



Cherry Creek are understood to be held by several individuals.

Sand, gravel and loam cover the claim area. A small amount of agricultural land lies on Section 23 near the north boundary of the DAVE claim. Otherwise the claim area is covered with second growth fir, spruce and underbrush.

### CLAIMS

The DAVE and "A" claims are situated in the Kamloops Mining Division as well as the Kamloops Land District in Township 19, Range 19 West. The DAVE claim covers a substantial amount of Section 23, the south portion of Section 26 and part of Broken Section 27A. The claims are recorded as follows:

<u>Claim Name</u>	<u>Record Number</u>	<u>Number of Units</u>	<u>Record Date</u>	<u>Recorded Holder</u>
DAVE	1155(3)	20	March 6, 1978	Dorado Resources Ltd.
"A"	1156(3)	4	March 6, 1978	Dorado Resources Ltd.

The claims are shown on British Columbia Ministry of Mines and Petroleum Resources mineral claim plan M92-I-10E [Figure 3].

### HISTORY AND PREVIOUS DEVELOPMENT

The claim area was staked in 1971 and occupied by the BILL, GAL, CROW and SKELLY claim groups. Most of these claims were held under option by Granite Mountain Mines Ltd.

[NPL] and Exeter Mines Ltd. [NPL] until 1975. Later the KEV, MAUREEN and JIM claim groups covered this ground but were subsequently lapsed. This ground was recently staked by Mr. Uno Leis.

Previous development on this ground was recorded with the B.C. Ministry of Mines and Petroleum Resources as assessment work. It was performed for Granite Mountain Mines and Exeter Mines. A magnetometer survey was done by W. Meyer and Associates in early 1972 over most of the present claim area. The survey was done along flagged lines some 130 metres apart.

Anomalous magnetic patterns were found trending in a northwesterly direction more or less parallel to the trend of the Cherry Creek valley depression. In March and April of 1972, McPhar Geophysics Limited did an Induced Polarization survey over the northeast portion of the BILL and GAL claims. McPhar located several areas of response.

Several of the magnetic and induced potential anomalies were tested by percussion drill holes by Granite Mountain Mines in the summer of 1972. According to personal communication from Mr. W. Meyer, P. Eng., who was consultant to Granite Mountain on this drill test, some eight percussion drill holes were done totalling in the order of 2,500 feet of drilling on the anomalous areas and the assay results from this drill test were inconclusive. According to the record, this program of drill test work was not filed for assessment credit.

In the past the Kamloops area has been known as a geological environment for numerous small deposits of

copper-pyrite in and adjacent to the Iron Mask Batholith. This activity dates back prior to the turn of this century. Many of these deposits were operated when metal prices were strong. The record shows small tonnages of good grade copper with some gold content was produced from few deposits in this area.

In late February and early March, 1979, a reconnaissance VLF electromagnetic survey was conducted over the DAVE and "A" claims. An apparent conductor zone was found as a result of this work and are on file with the British Columbia Ministry of Energy, Mines and Petroleum Resources.

#### REFERENCES

Annual Reports of the Minister of Mines, British Columbia  
N.T.S. Topographic Map 92-I/10E

B.C. Ministry of Mines and Petroleum Resources mineral  
claim map 92-I/10E

Geological Survey of Canada Memoir 249

" " " " Map 886A

" " " " Map 887A

" " " " Aeromagnetic Map 5216G

Report on a Magnetometer Survey of the BILL and GAL claims for Granite Mountain Mines Ltd. [NPL] and Exeter Mines Ltd. [NPL] by W. Meyer and Associates Ltd., dated May 25, 1972 - B. C. Assessment Report No. 3658

Report on an Induced Polarization Survey over part of the BILL and GAL claims by McPhar Geophysics Limited dated April 17, 1972 - B.C. Assessment Report No. 3659.

Personal communication with W. Meyer, P.Eng., on March 13, 1978

The Afton Discovery - Chester Miller, Western Miner, February 1973

The Afton Mines Project - Pamela Bottomley, Western Miner, January 1978

Assessment Report on the Results of A Reconnaissance VLF Electromagnetic and Radiometric Survey on the DAVE 1155[3] and "A" 1156[3] Claims dated March 16, 1979 by Donald W. Tully, P.Eng.

#### GEOLOGICAL SETTING

A preliminary examination of the geology over the DAVE and "A" claim area indicates this property is underlain by Nicola volcanics and the later Kamloops Group of similar-type volcanic rocks. Diorite-monzonite phases seen in the outcrops of volcanics may be intrusive and probably related to the late interaction phases of the nearby Sugarloaf and Cherry Creek intrusions of the Iron Mask Batholithic mass. A tentative table of formations is as follows:

<u>Formation</u>	<u>Age</u>
Sand, gravel, alkali beds and unconsolidated sediments	Recent [Quaternary]
Kamloops - Volcanics	Tertiary
Intrusives [?] - Diorite - Monzonite	Jurassic and probably of much later time frame
Nicola - Volcanics	Triassic

Structurally, the surface features observed in the rock outcrops show a northwest trend with steep dips, generally southwest. Shearing and schistose structures were noted especially along the east side of the valley depression occupied by Cherry Creek.

Of interest is the geology of the Afton deposit which is located some two kilometres north of the DAVE claim. This deposit occurs at the western end of the Iron Mask Batholith in a highly altered coarse-grained phase of granodiorite and attendant metamorphosed phases of microdiorite and micromonzonite associated with the Sugar and Cherry Creek intrusions of later age. The copper mineralization is associated with these later intrusives and occurs as veins and disseminations in shear zone patterns trending northeast and northwest as well as north-south.

#### MINERALIZATION AND ASSAYS

An examination of G.S.C. aeromagnetic map 5216g shows the general north-northwest trend of the basic geologic structures underlying the claims.

All the available information suggests no economic mineralization is known at the present time in the DAVE and "A" claim area. It is not known if geochemical soil sampling work has been done in the claim area by the previous claim holders since no such information has been filed with the B.C. Ministry of Mines and Petroleum Resources.

Evidence of high temperature alteration in the nearby Afton orezones indicates a magnetic "low" accompanies

the copper mineralization. This would indicate those areas on the DAVE and "A" claims that show anomalous areas of low magnetic intensity may have potential.

### VLF ELECTROMAGNETIC SURVEY

#### Control

The starting point of the survey was established by locating a previously located point at Line 5w-13s [see Figures 5-7]. From this point a grid was set up on 25 metre centres extending west to Line 6.00 - 6.25w and south to 19.00 - 19.50s [Figure 4]. Flagging was placed at each station over the grid. Chain, compass and topolite thread were used to establish the flagged station points for instrument readings. Chainage points of the transmitter and receiver in the horizontal loop survey were marked accordingly.

#### Instrument Used

130 VLF electromagnetic stations were occupied and read [see Figures 4 and 5-7].

Readings were taken by orienting the Ronka EM-16 instrument southward in the direction of Station NPG [Jim Creek], Seattle, Washington, in the horizontal position until a null or near null was obtained. This direction was generally at azimuth 202 degrees but the direction varied an estimated ten degrees in the area of the apparent conductor. After orientation on NPG the instrument was turned eastward through 90 degrees and then the null or near null reading of the IN-Phase and Quadrature was read from the instrument in

the vertical position. The readings are plotted on Figure 4. The north-south extent of the VLF electromagnetic conductor zone is 425 metres or about 1,300 feet. Cross-sectional profiles looking north, of Sections 13.75s through 18.00s, were constructed of the readings and are shown in APPENDIX A. The apparent conductor anomaly position was interpreted and plotted on the cross-sectional profiles. The interpretation is based on the premise that an apparent conductor may occur midway below the high-low point of a series of In-Phase readings that trend from strong positive to a strong negative position and confirmed by a Quadrature [Out-of Phase] trend. This interpretation is well exemplified on Sections 14.50s through 16.50s.

The plan position of the Ronka VLF electromagnetic apparent conductor is shown on Figure 4. An offset occurs in the southward trend of the apparent conductor anomaly at Section 17.25s.

The lack of coincidence between the position of the Ronka VLF apparent conductor and the apparent conductor indicated by the VHEM horizontal loop method may be due to depth and dip of the apparent conductor zone. The VHEM indicated conductor is interpreted as confirming in part the existence of the VLF apparent conductor zone.

#### HORIZONTAL LOOP [VHEM] ELECTROMAGNETIC SURVEY

The horizontal loop survey was conducted over the same grid pattern as the VLF Ronka survey. The coil separation was respectively 100 feet, 200 feet and 300 feet and the locations of the transmitter and receiver coils were marked at the positions occupied on the ground.

### Instrument Used

The instrument was a McPhar VHEM unit Model 660-Rx, Serial # 33-7016, rented from Phoenix Geophysics Limited, Willowdale, Ontario.

The instrument was calibrated in a location thought to be well outside any anomalous area, using the 100-foot, 200-foot and 300-foot cables for coil separation to determine the "background".

The positions of the transmitter and the receiver coils are shown on the profile cross-sections in APPENDIX B. These profiles also show the topography in the surveyed area.

Readings were taken at each coil separation on the 600 cycle per second [cps] frequency and the higher 2400 cps frequency at each station on the positive toggle and negative toggle switches respectively. The readings are shown as [+] and [-] on figures 5a, 5b, 6a, 6b. The readings are plotted at one-half the distance between the transmitter and receiver coils on the cross-section profiles in APPENDIX B.

### Results

The readings are plotted on Figures 5a, 5b, 6a, and 6b. The north-south indicated length of the VHEM conductor zone is 125 metres [about 400 feet].

The 100-foot coil separation results showed no significant response above "background" and the interpretation is that the conductor zone is deeply buried.



The 200-foot coil separation results at the 600 cps frequency on sections 16.25s, 16.50s, 16.75s, 17.00s [APPENDIX B] show ratios of In-Phase [I.P.] response to Out-of-Phase [O.P.] response varying up to 7:1 on the negative toggle switch. Results on the 2400 cps frequency at the 200-foot coil separation have lower but confirming I.P. to O.P. ratios. The apparent conductor zone appears to be leaving the survey area to the southeast as suggested from the 300-foot coil separation results [Figures 5a and 5b].

The 300-foot coil separation results at the 600 cps frequency show I.P. to O.P. ratios of varying strength on the negative toggle switch on section 15.75s and southward to sections 17.00s [Figure 5a]. These results are confirmed on the 2400 cps frequency [Figure 5b].

Figures 5a, 5b, 6a, and 6b confirm the possibility of a conductive zone on Section 15.75s at about 6.00w.

Although I.P. to O.P. ratios are considered a measure of the conductivity factor in an apparent conductor zone, it is also thought that where the transmitter and receiver coils were not on ground [see Profiles in APPENDIX B] when using the horizontal loop method that it may be more meaningful to compare the Out-of-Phase readings on the 600 and 2400 cps frequencies at the same coil separation. Such a comparison of the O.P. ratios of the readings at the lower and higher frequencies shows a fair conductivity factor for the zone as follows:

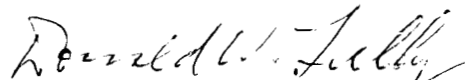
<u>Coil Separation</u>	<u>Section</u>	<u>Location</u>	<u>Ratio 2400/600 cps</u>
300-feet	15.75s	5.35w	3 - 1
"	16.00s	"	1 - 1
"	16.25s	"	4 - 1
"	16.50s	"	3 - 1
"	16.75s	"	2 - 1
"	17.00s	"	2 - 1

The graphical results are shown in APPENDIX B.

#### RECOMMENDATIONS

1. Two diamond drill holes are recommended to test the zone of apparent conductivity. Each hole should be at least 500 feet in length for a total of 1,000 feet of drilling.
2. The horizontal loop survey should be extended south of Section 17.00s and the profiles of Sections 15.75s thru 17.00s should be extended both east and west to determine the full profile of the size, shape and general configuration of the conductor anomaly zone.

Respectfully submitted,



Donald W. Tully, P.Eng.,  
Consulting Geologist

April 17, 1979

TIME - COST DISTRIBUTION

Personnel and period employed

R. Kendal - P.O. Box 135, Savona, B.C., V0K 2J0  
 April 1-4, 1979 inclusive

U. Leis - 113-15245-105th Street, Surrey, B.C.  
 March 30, 31, April 1, 1979, incl.

Donald W. Tully  
 - 102-2222 Bellevue Avenue,  
 West Vancouver, B.C. V7V 1C7  
 March 29 - April 5, 1979 incl.  
 April 11-12, 16-17, 1979 incl.

Cost

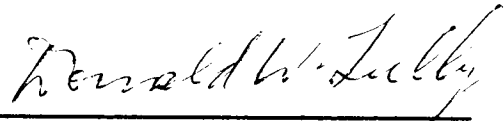
Labour.....	\$ 3,625.00
Instrument Rentals.....	346.20
Field Supplies.....	34.71
Transportation.....	678.11
Accommodation and Meals.....	659.80
Report and map preparation.....	785.53
	<hr/>
TOTAL.....	\$ 6,179. <sup>25</sup> <sub>75</sub>
	<hr/> <hr/>

CERTIFICATE

I, DONALD WILLIAM TULLY, of the Municipality of West Vancouver, Province of British Columbia, hereby certify as follows:

1. I am a Consulting Geologist with an office at Suite 102, 2222 Bellevue Avenue, West Vancouver, British Columbia.
2. I am a registered Professional Engineer in the Provinces of British Columbia and Ontario.
3. I graduated with a degree of Bachelor of Science, Honours Geology, from McGill University in 1943.
4. I have practiced my profession for thirty-three years.
5. This report dated April 17, 1979 is based on a personal supervision of the work done on the claims during March and April, 1979.
6. I have no direct, indirect or contingent interest in the DAVE or "A" mineral claims or the securities of Dorado Resources Ltd., nor do I intend to receive any interest.
7. Written permission is required from the writer to publish this report in any Prospectus or Statement of Material Facts.

DATED at West Vancouver, in the Province of British Columbia this 17th day of April, 1979.



Donald W. Tully, P.Eng.,  
Consulting Geologist

APPENDIX A

DON TULLY ENGINEERING LTD.  
SUITE 102 - 2222 BELLEVUE AVENUE  
WEST VANCOUVER, BRITISH COLUMBIA  
V7V 1C7

6.25 W.

6.00 W.

5.75 W.

5.50 W.

5.25 W.

5.00 W.

4.75 W.

4.50 W.

4.25 W.

4.00 W.

40

35

30

25

20

15

10

5

+

0

-5

-10

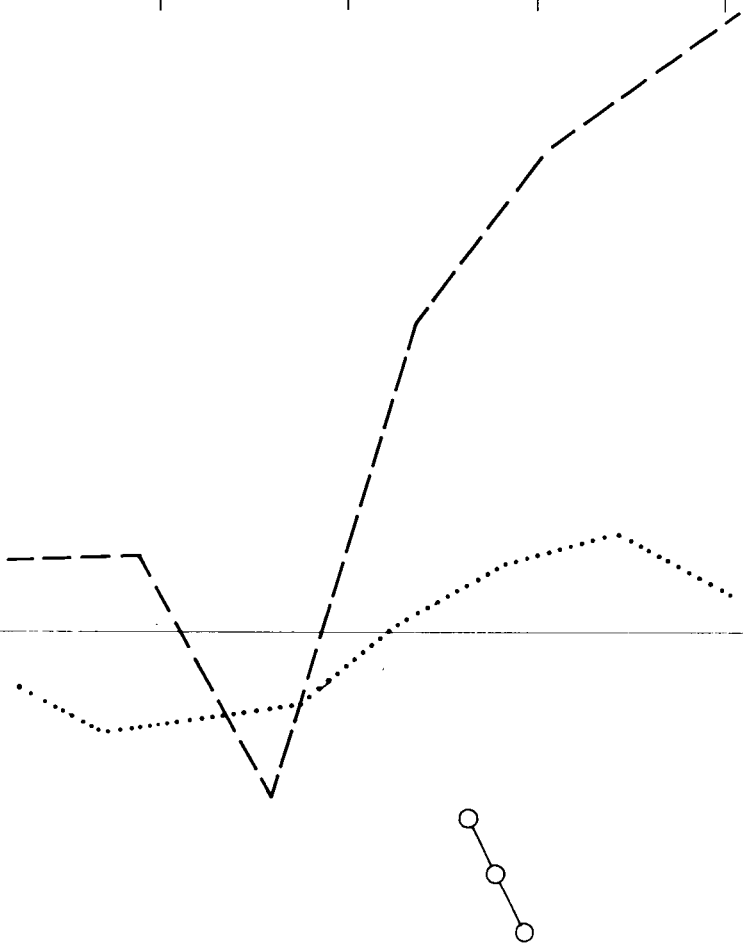
-15

-20

-25

-30

-35



--- IN - PHASE

..... OUT - OF PHASE (QUADRATURE)

○—○—○ APPARENT CONDUCTOR AREA

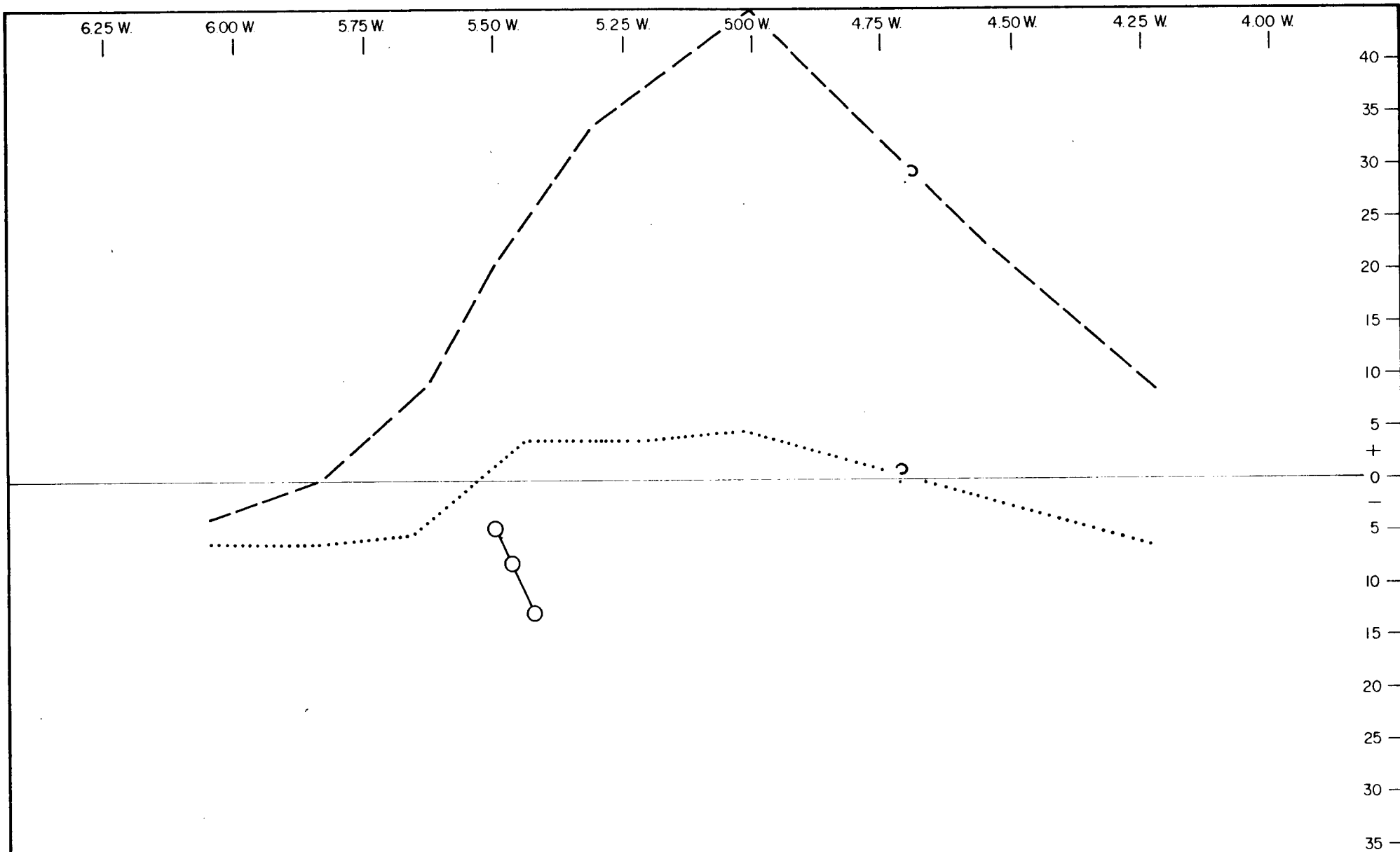
To accompany a report by  
Donald W. Tully, P. Eng. dated April 17, 1979

APPENDIX A

SECTION 13.75S.

LOOKING NORTH

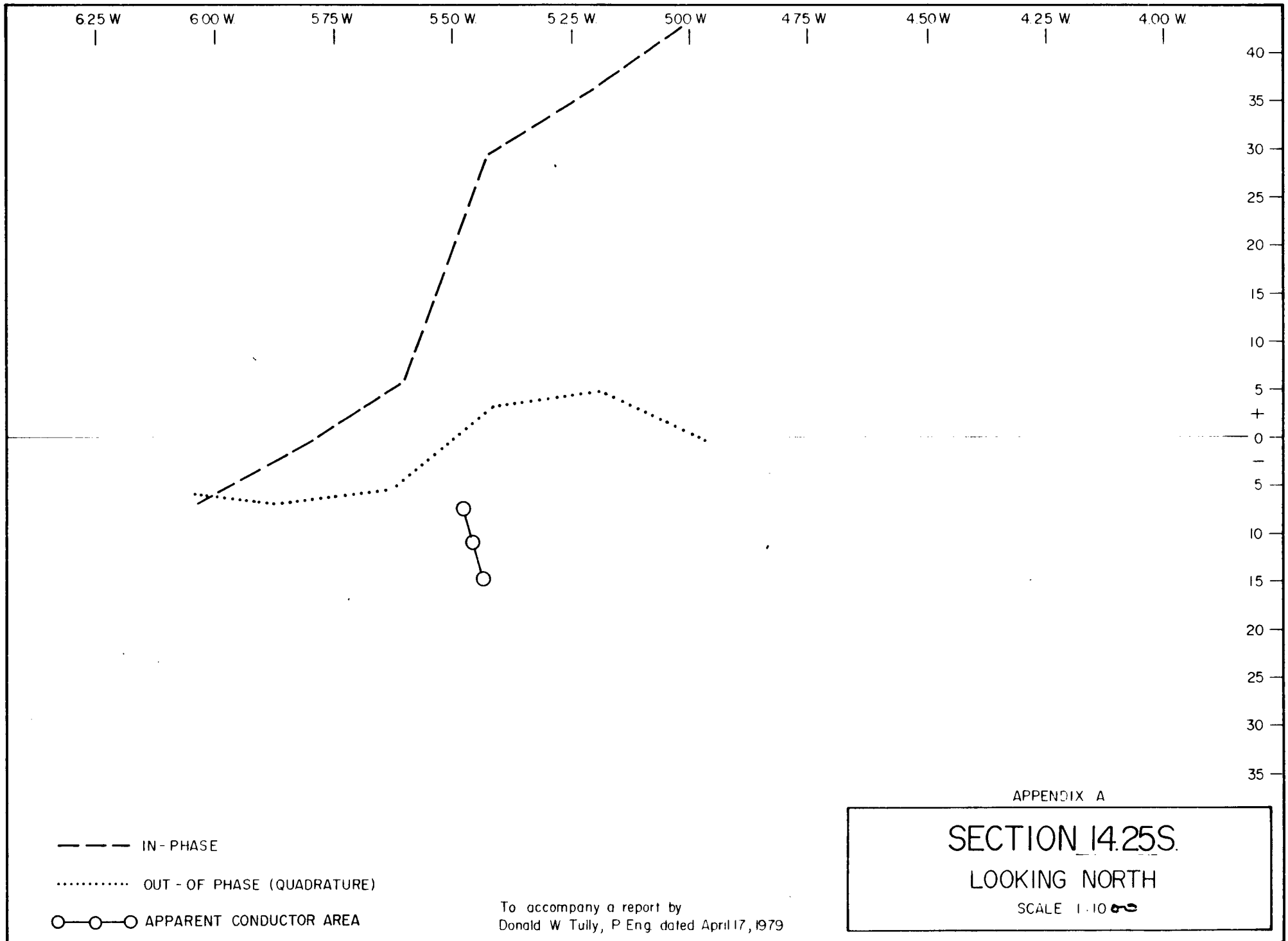
SCALE 1:1000



- - - - IN-PHASE  
 ..... OUT-OF PHASE (QUADRATURE)  
 ○-○-○ APPARENT CONDUCTOR AREA

To accompany a report by  
 Donald W. Tully, P. Eng. dated April 17, 1979

APPENDIX A  
**SECTION 1400S.**  
 LOOKING NORTH  
 SCALE 1:10 00

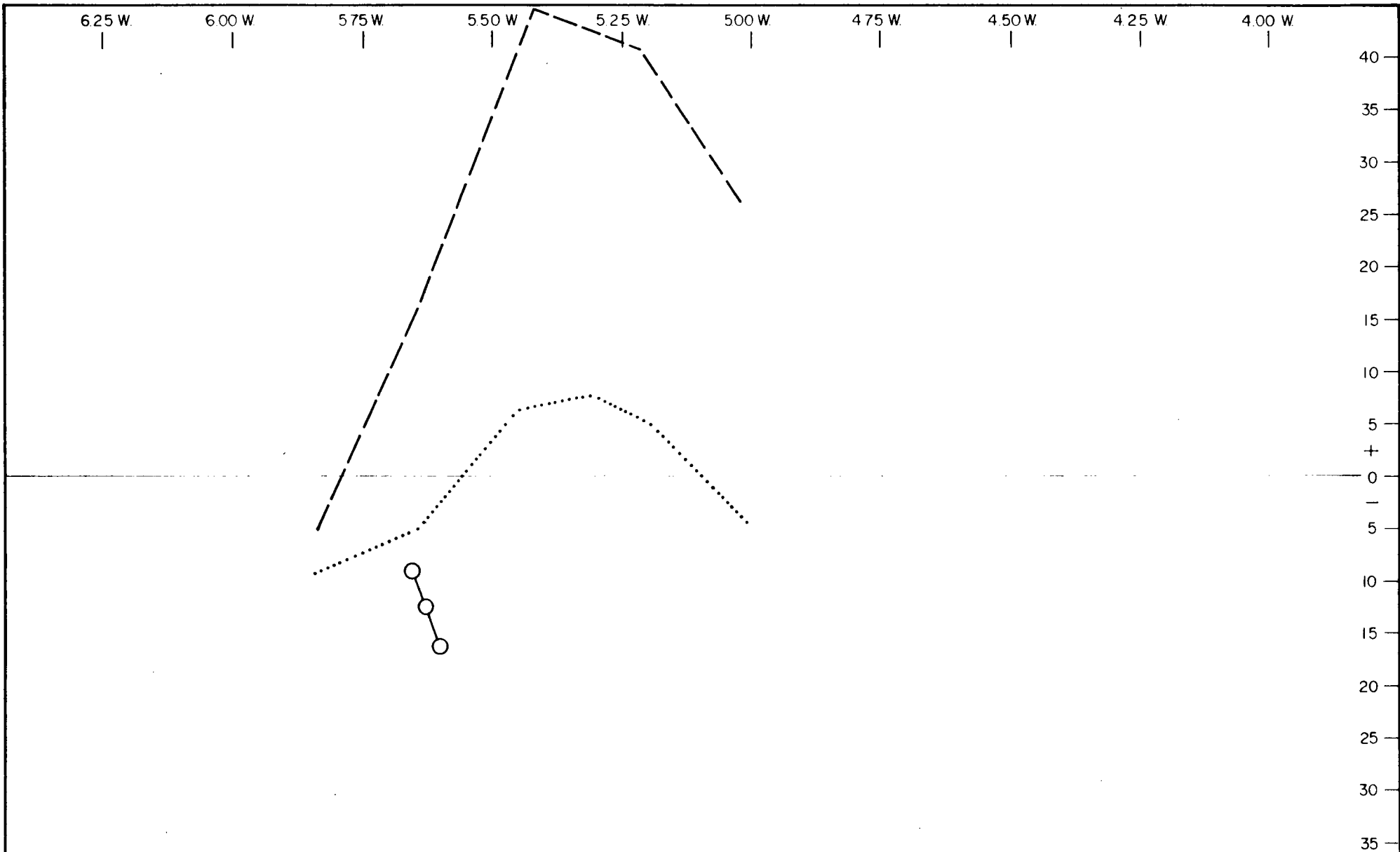


- - - IN-PHASE  
 ..... OUT-OF PHASE (QUADRATURE)  
 ○-○-○ APPARENT CONDUCTOR AREA

To accompany a report by  
 Donald W Tully, P Eng dated April 17, 1979

APPENDIX A  
**SECTION 14.25S.**  
 LOOKING NORTH  
 SCALE 1:10



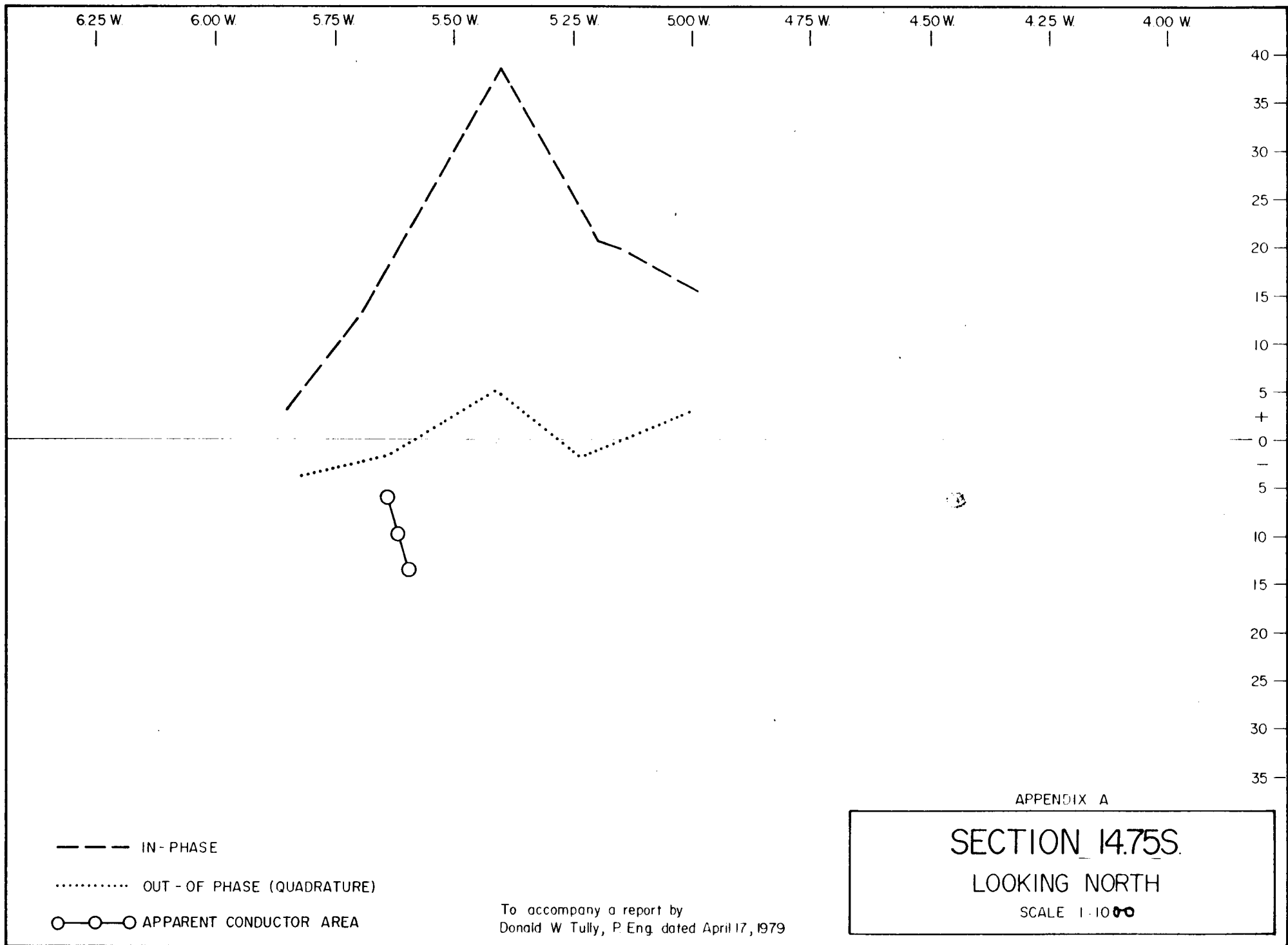


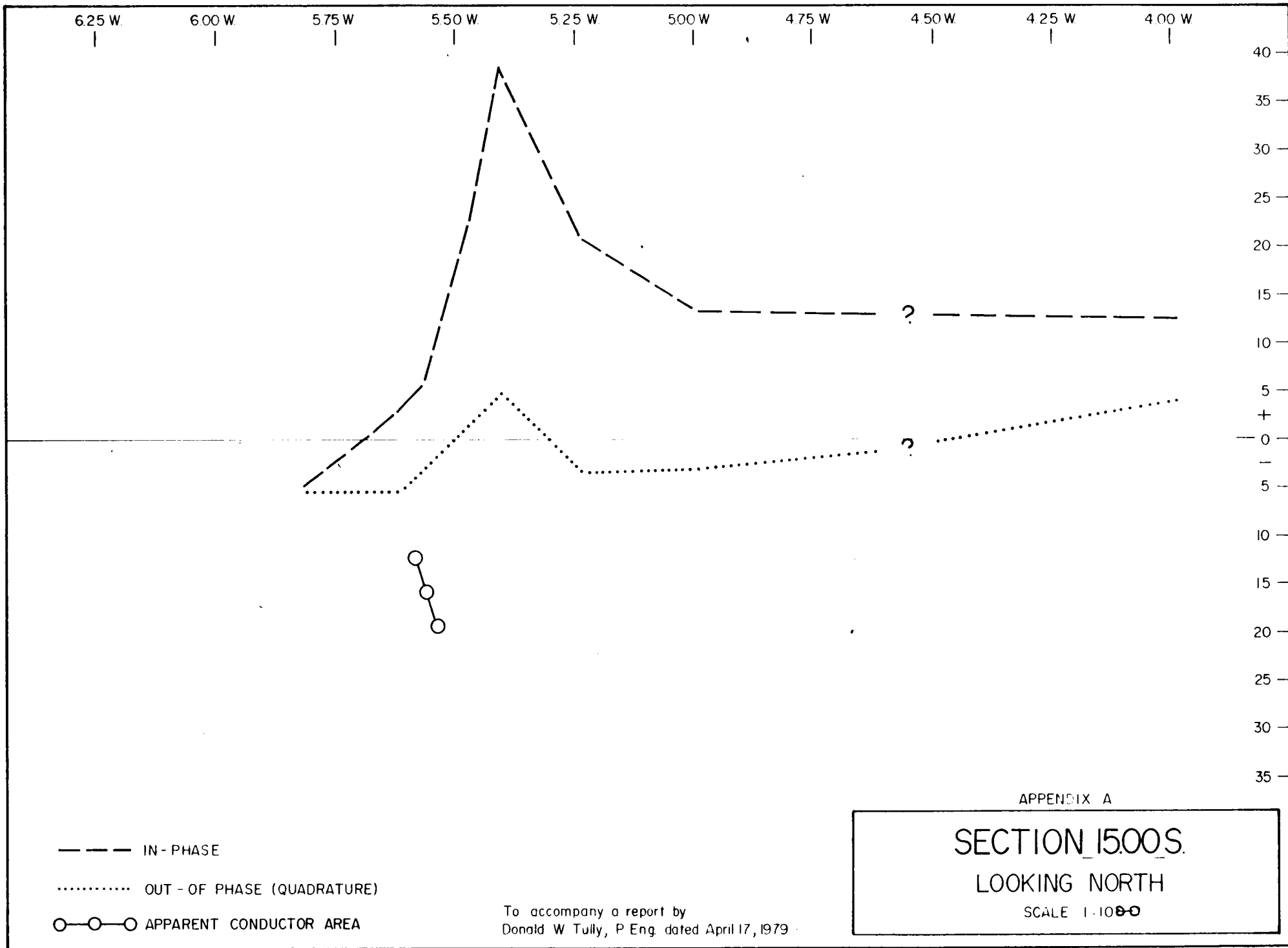
APPENDIX A

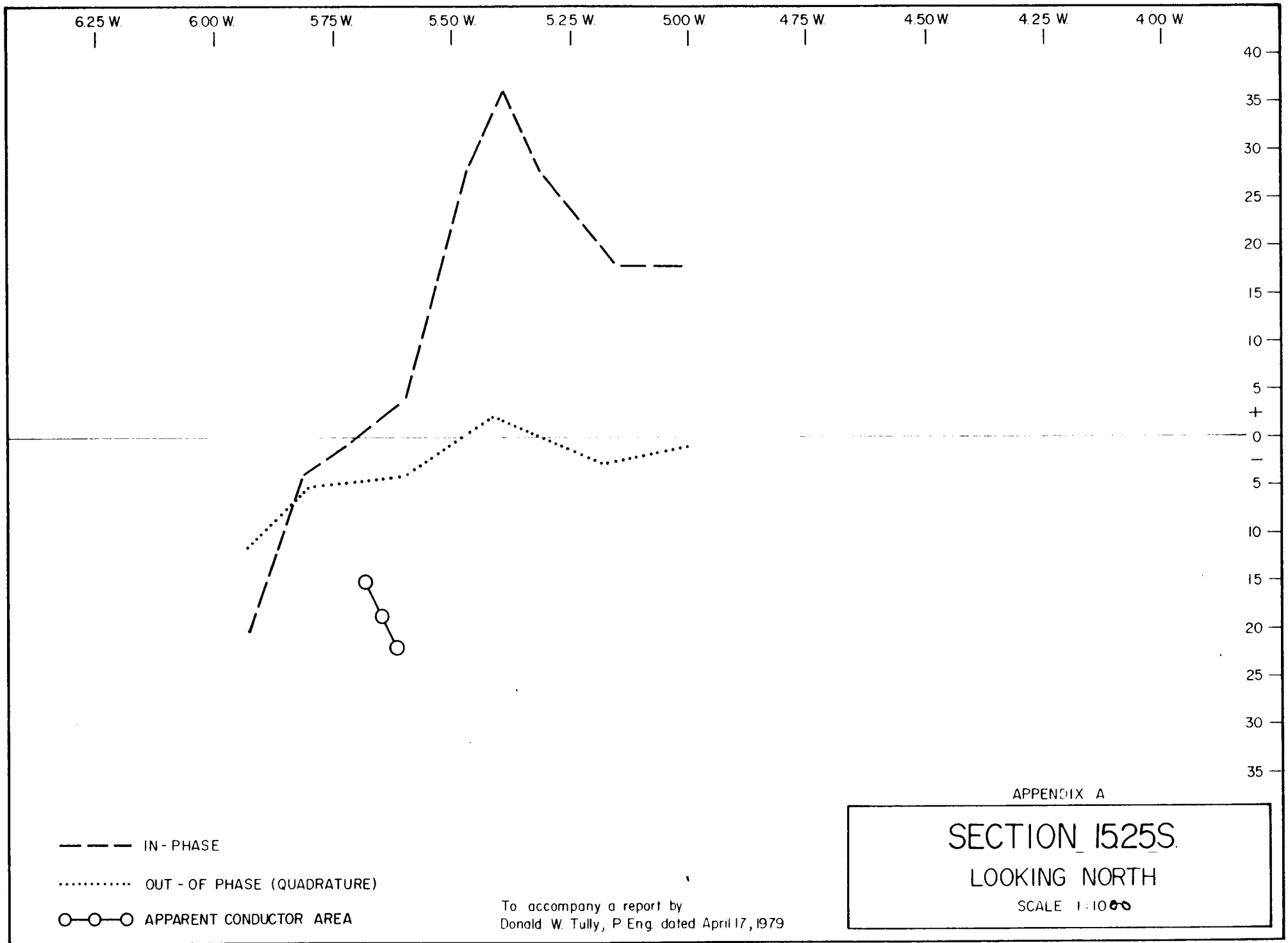
SECTION 14.50S.  
 LOOKING NORTH  
 SCALE 1:1000

--- IN-PHASE  
 ..... OUT-OF PHASE (QUADRATURE)  
 ○—○—○ APPARENT CONDUCTOR AREA

To accompany a report by  
 Donald W Tully, P Eng. dated April 17, 1979







7.00 W

6.75 W

6.50 W

6.25 W

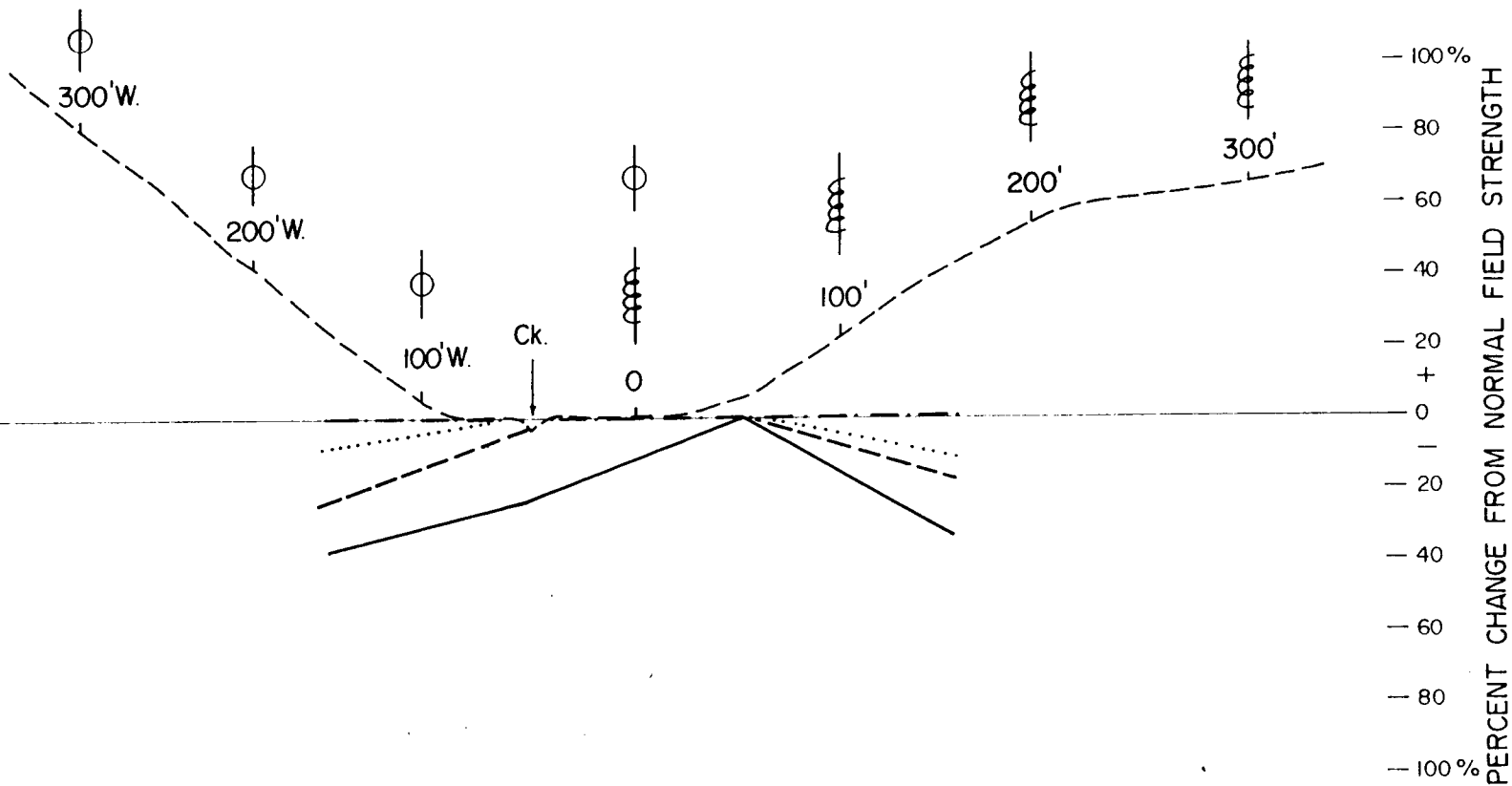
6.00 W

5.75 W

5.50 W

5.25 W

5.00 W



IN - PHASE

OUT - OF PHASE

TRANSMITTER

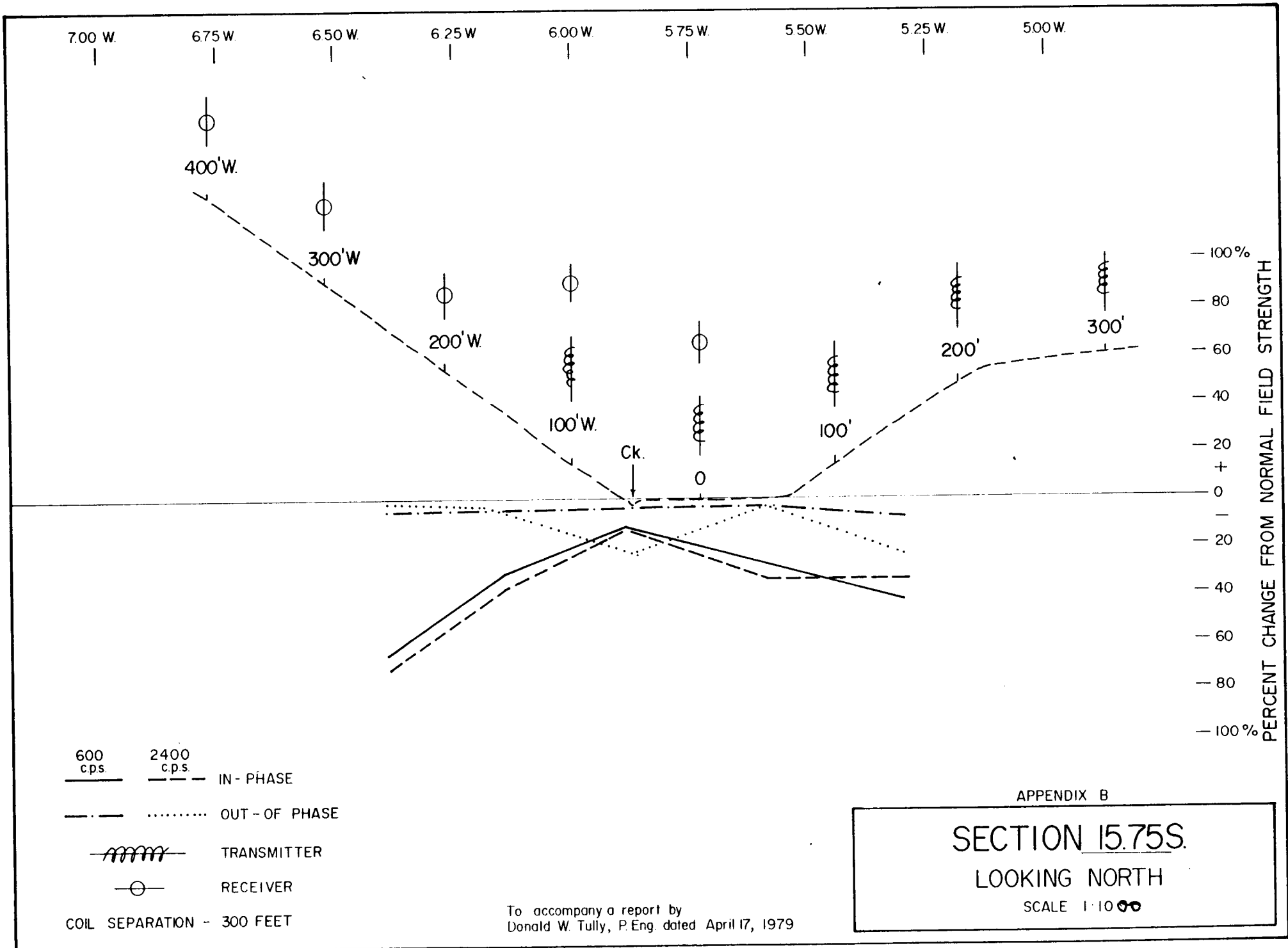
RECEIVER

COIL SEPARATION - 300 FEET

APPENDIX B

**SECTION 15.50S.**  
 LOOKING NORTH  
 SCALE 1:1000

To accompany a report by  
 Donald W. Tully, P Eng dated April 17, 1979



600 c.p.s.      2400 c.p.s.  
 IN - PHASE

OUT - OF PHASE

TRANSMITTER

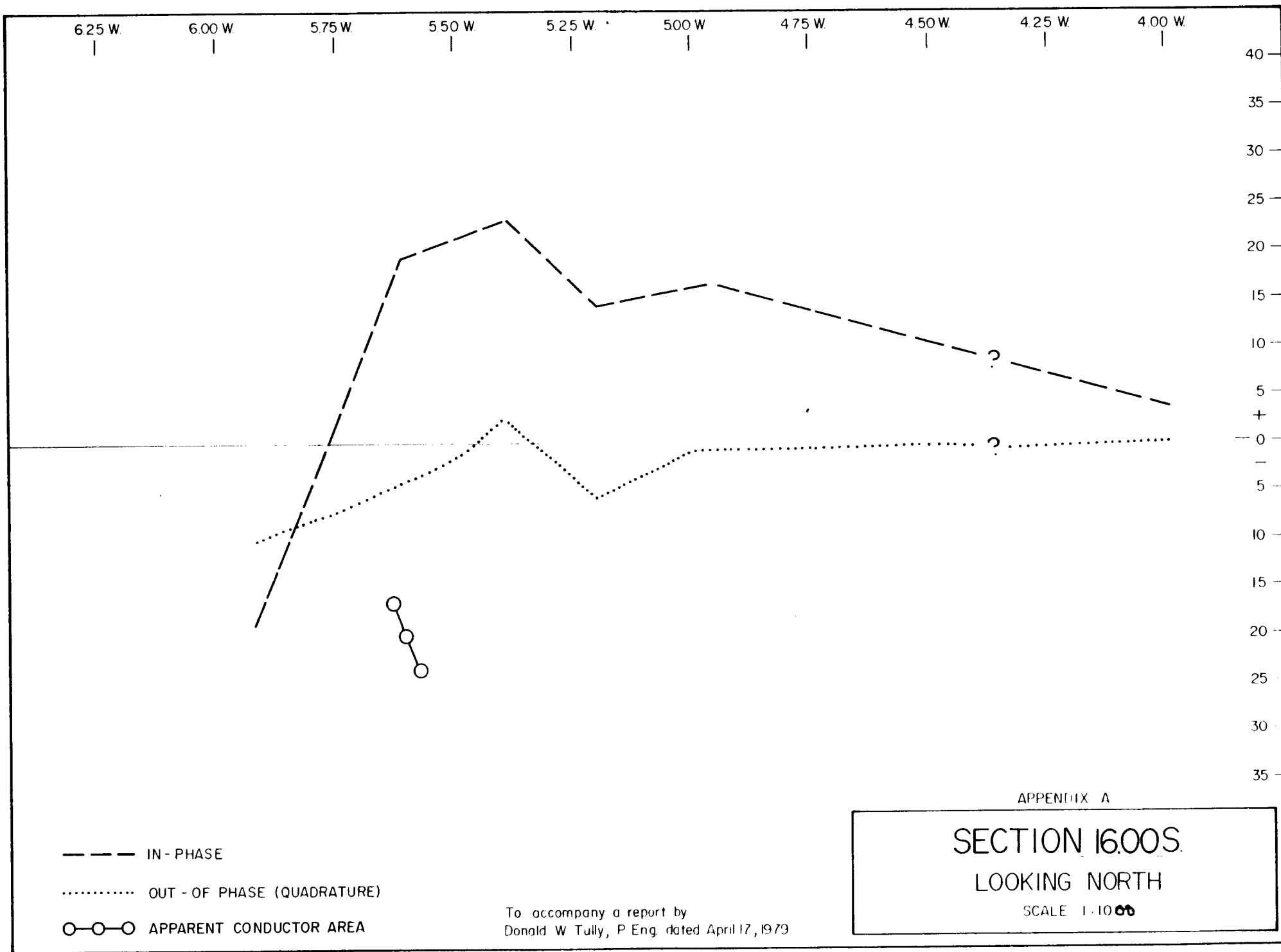
RECEIVER

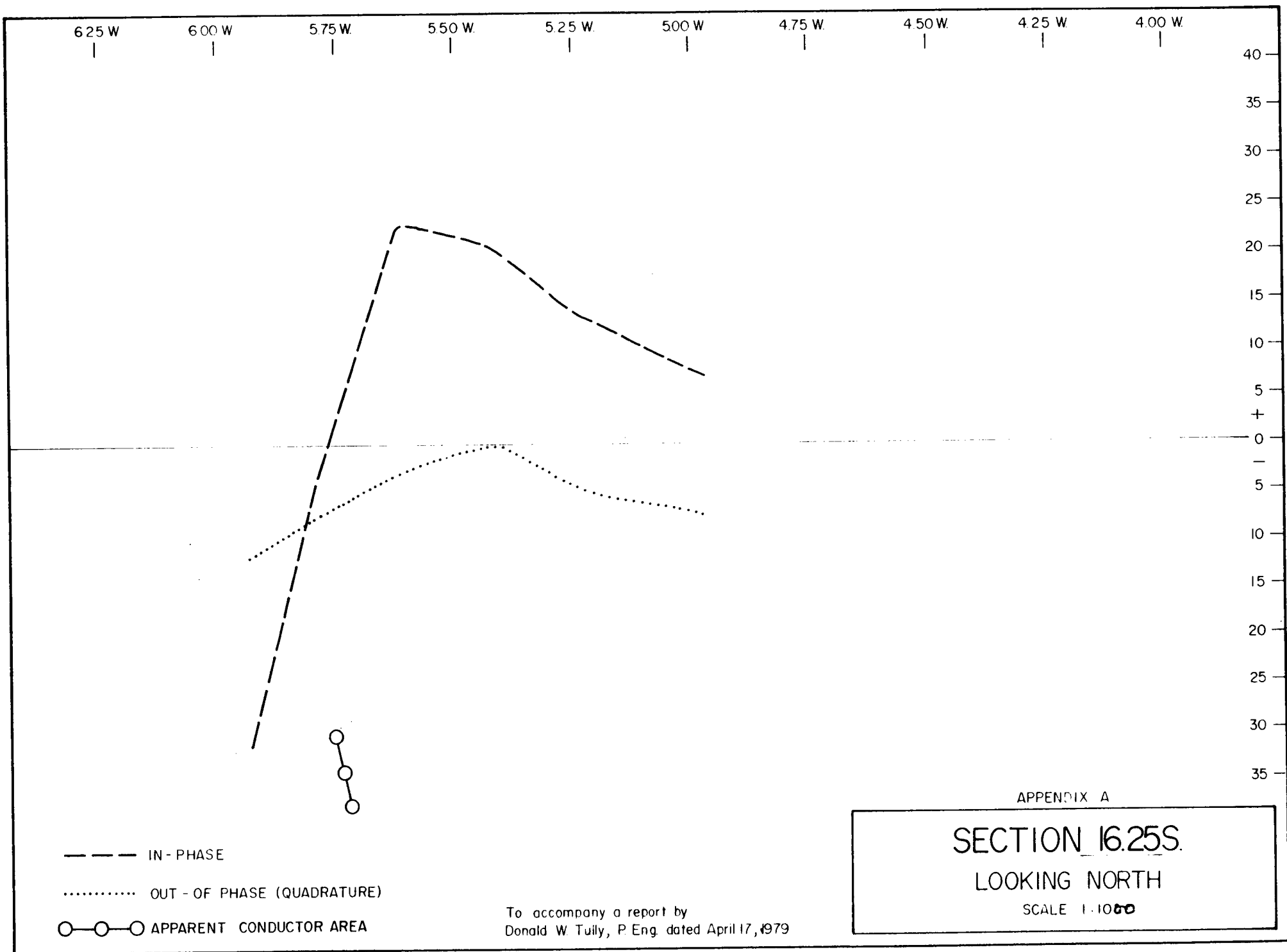
COIL SEPARATION - 300 FEET

To accompany a report by  
 Donald W. Tully, P.Eng. dated April 17, 1979

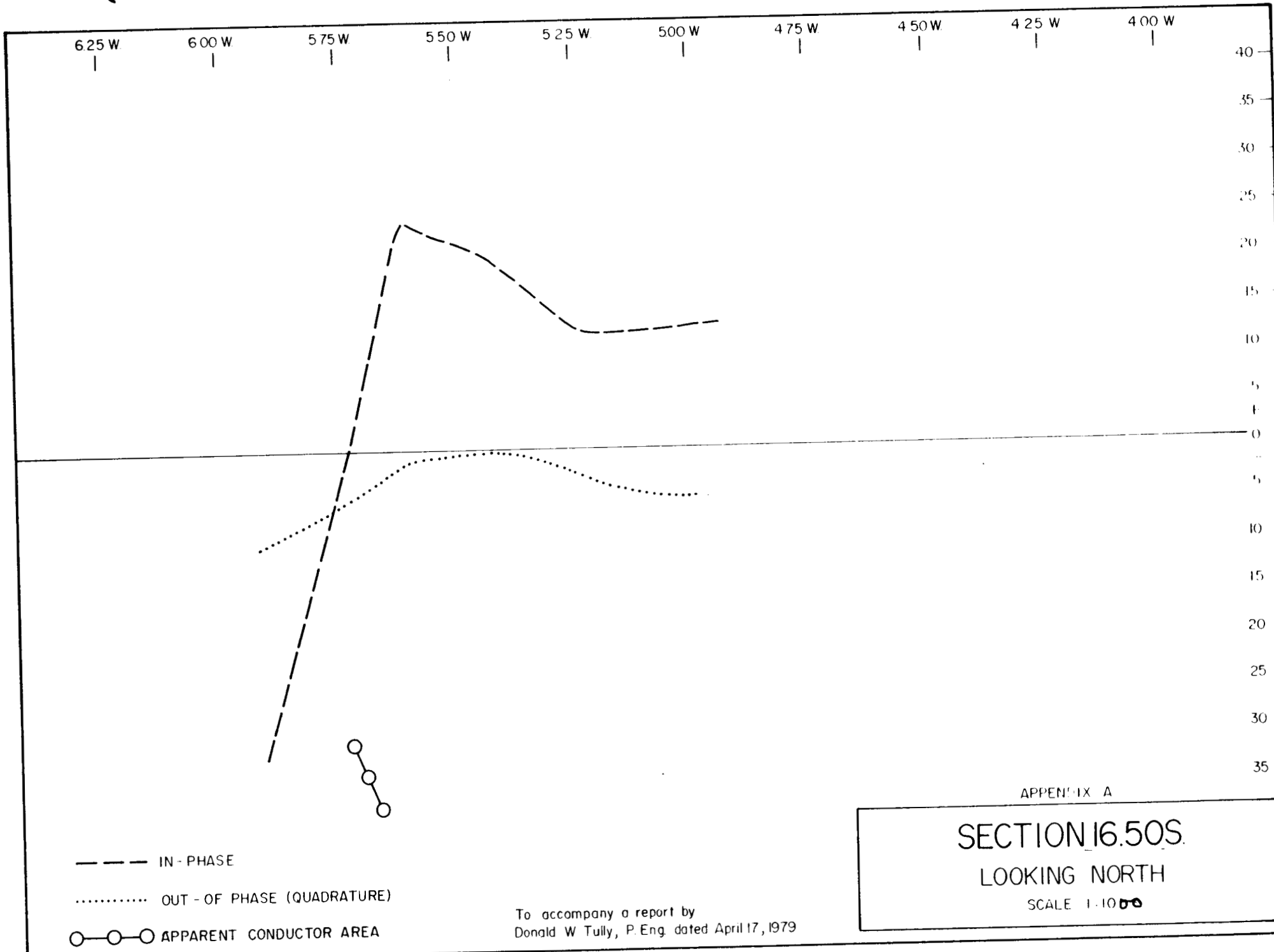
APPENDIX B

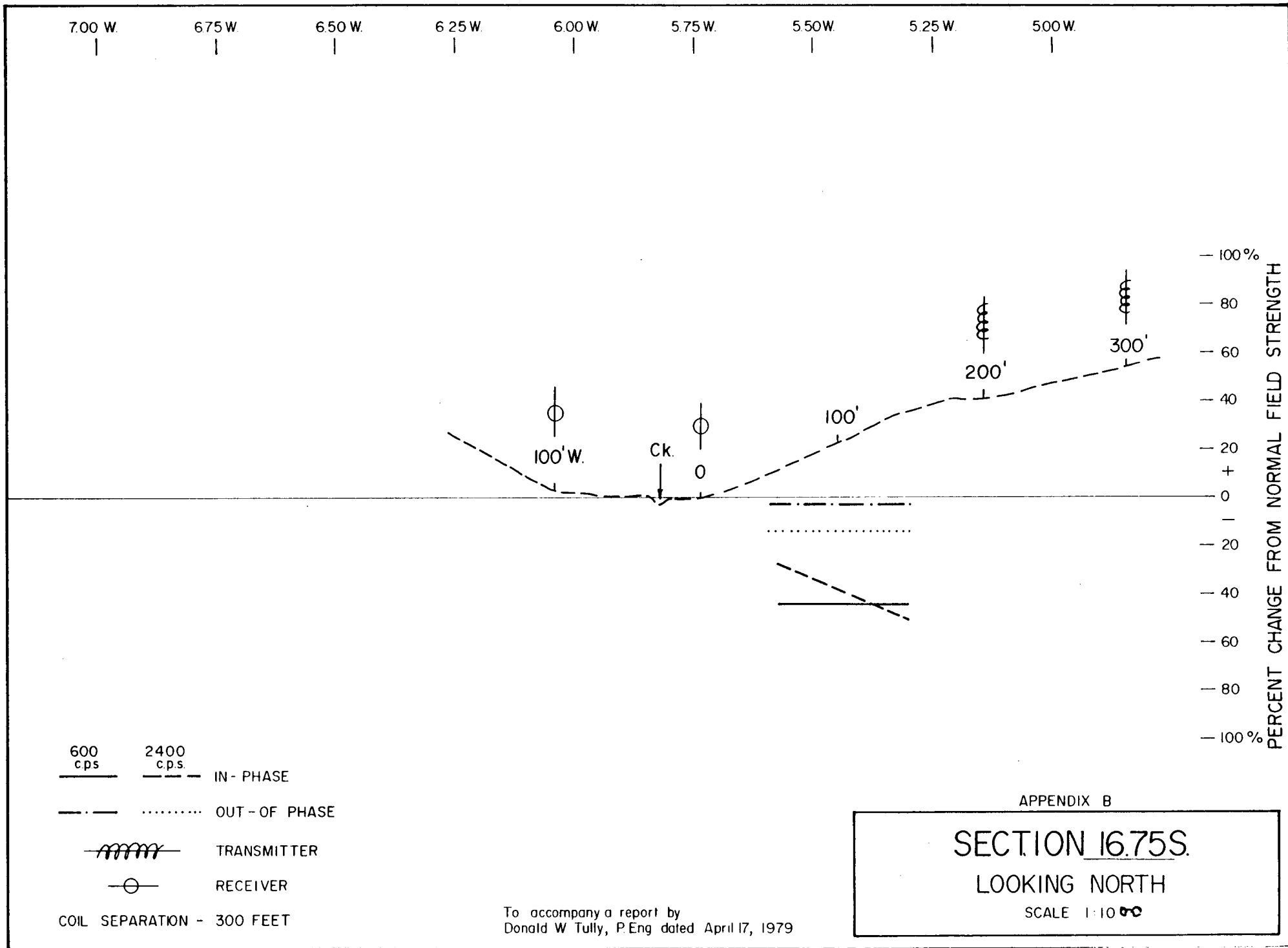
SECTION 15.75S.  
 LOOKING NORTH  
 SCALE 1:1000











7.00 W.

6.75 W.

6.50 W.

6.25 W.

6.00 W.

5.75 W.

5.50 W.

5.25 W.

5.00 W.

- 100%

- 80

- 60

- 40

- 20

+ 0

- 20

- 40

- 60

- 80

- 100%

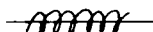
PERCENT CHANGE FROM NORMAL FIELD STRENGTH

600  
c.p.s.

2400  
c.p.s.

IN - PHASE

--- ..... OUT - OF PHASE



TRANSMITTER



RECEIVER

COIL SEPARATION - 300 FEET

To accompany a report by  
Donald W Tully, P.Eng dated April 17, 1979

APPENDIX B

SECTION 16.75S.

LOOKING NORTH

SCALE 1:1000

7.00 W.

6.75 W.

6.50 W.

6.25 W.

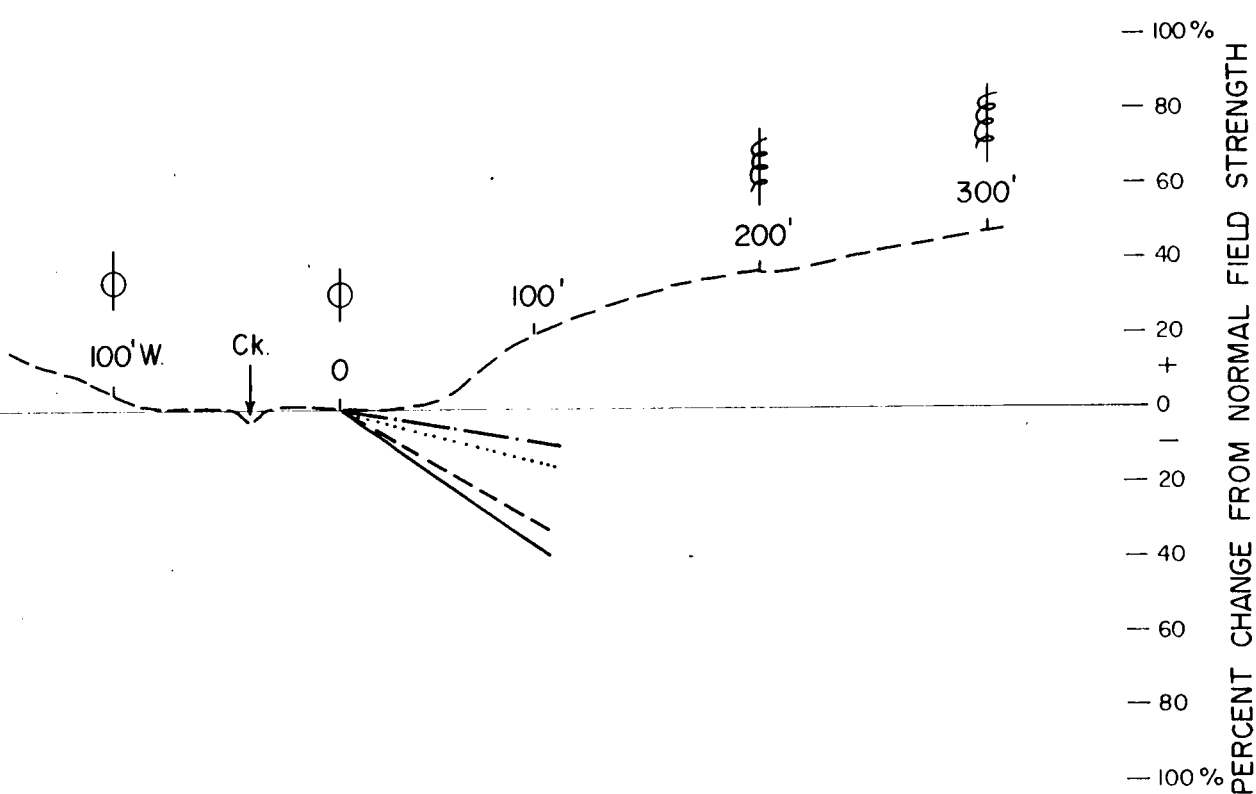
6.00 W.

5.75 W.

5.50 W.

5.25 W.

5.00 W.



600 c.p.s.    2400 c.p.s.  
 ————    - - - -    IN-PHASE

- · - · -    ······    OUT-OF-PHASE

⎓    TRANSMITTER

○    RECEIVER

COIL SEPARATION — 300 FEET

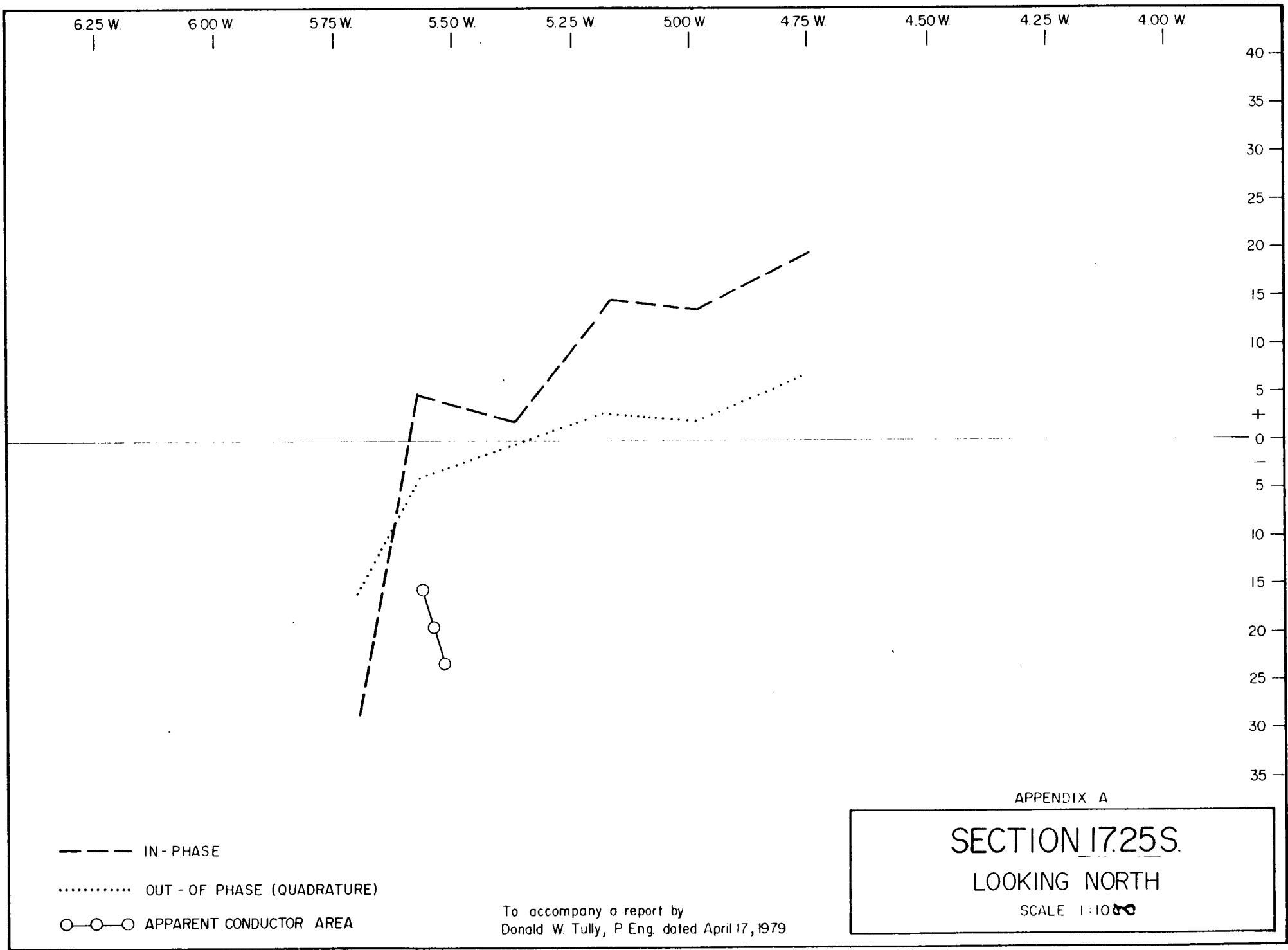
APPENDIX B

SECTION 17.00S.

LOOKING NORTH

SCALE 1:1000

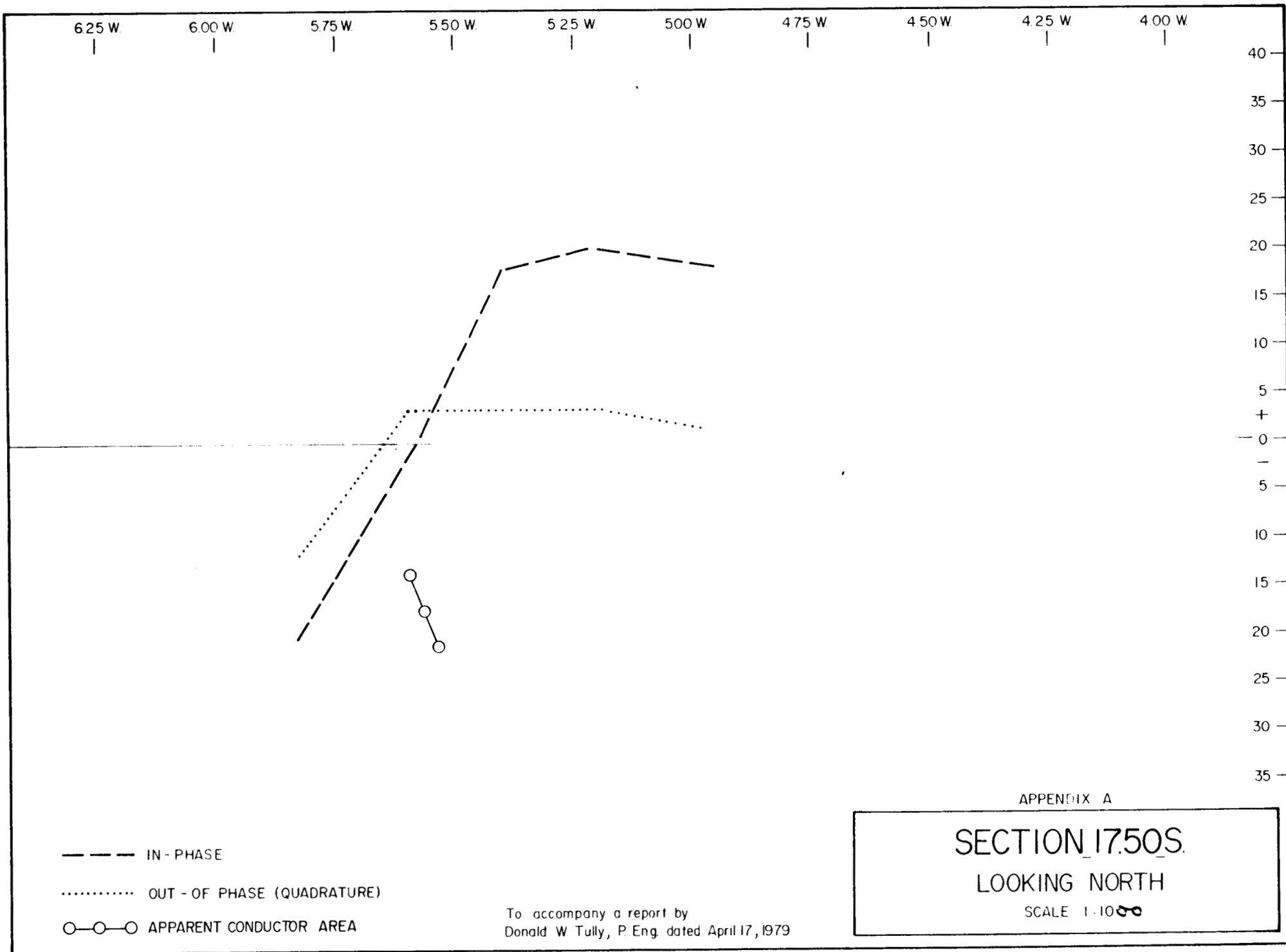
To accompany a report by  
 Donald W. Tully, P.Eng. dated April 17, 1979

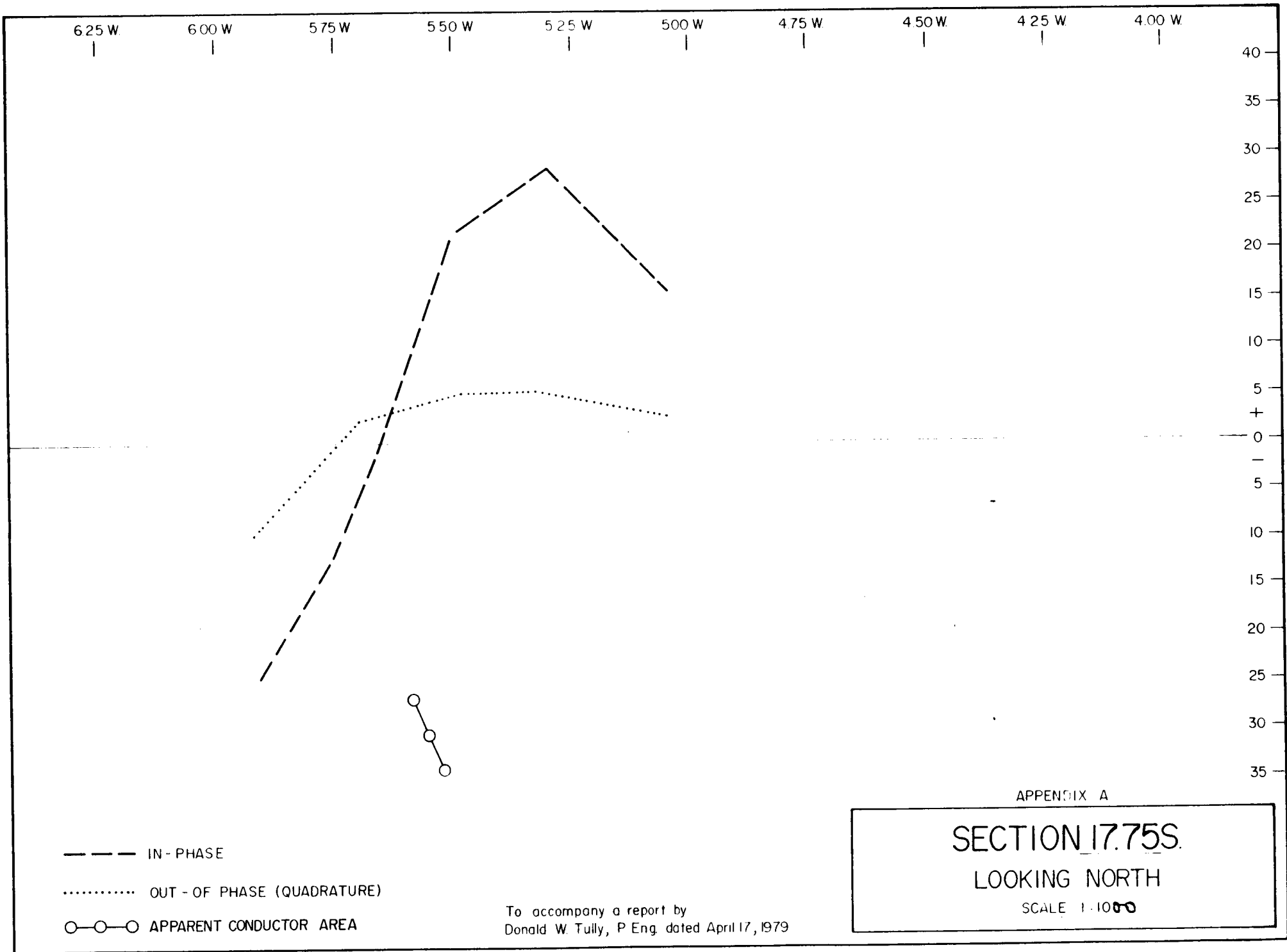


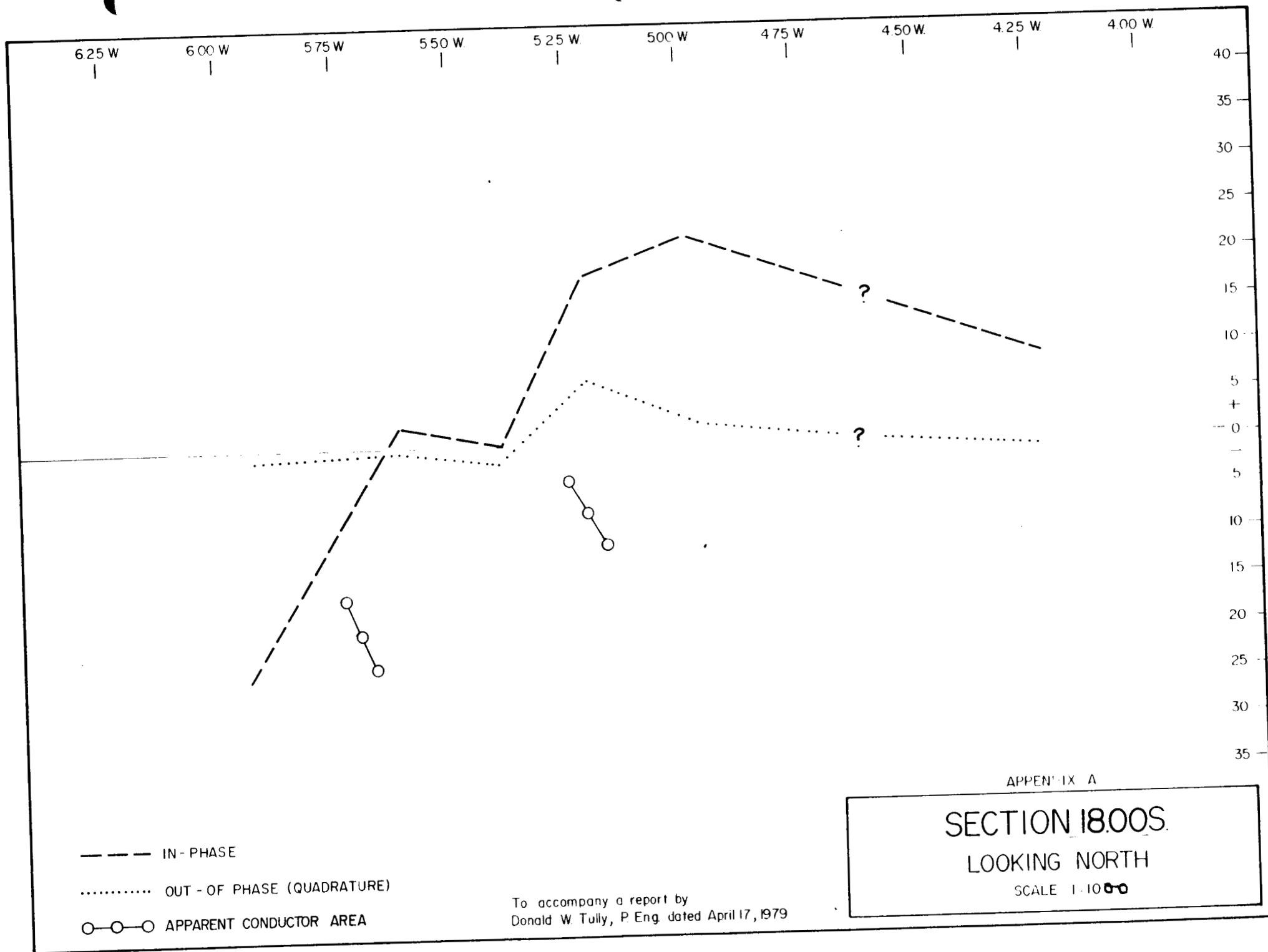
APPENDIX A

SECTION 17.25S.  
 LOOKING NORTH  
 SCALE 1:1000

To accompany a report by  
 Donald W. Tully, P. Eng. dated April 17, 1979





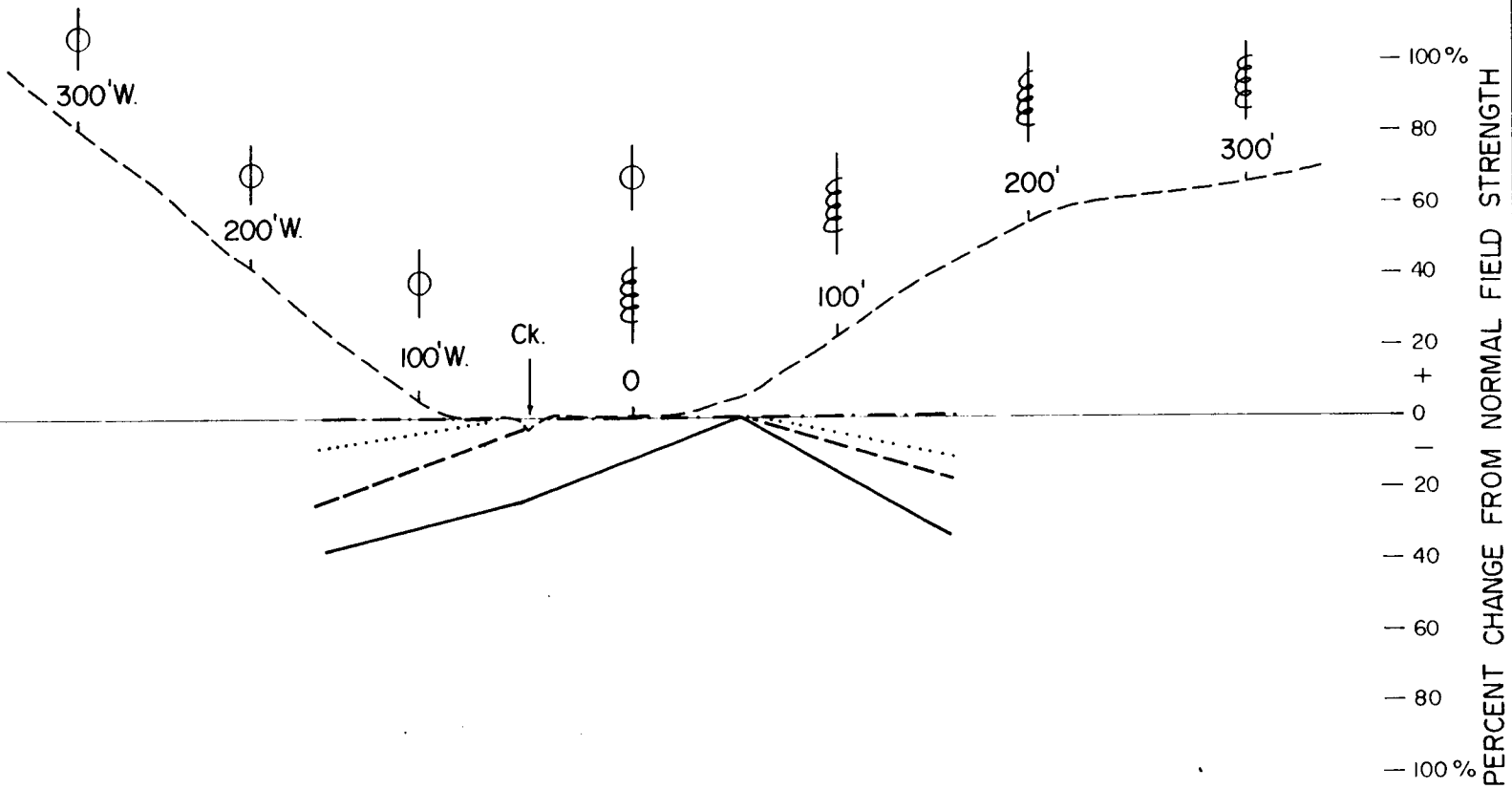


APPENDIX B

DON TULLY ENGINEERING LTD.  
SUITE 102 - 2222 BELLEVUE AVENUE  
WEST VANCOUVER, BRITISH COLUMBIA  
V7V 1C7



7.00 W. | 6.75 W. | 6.50 W. | 6.25 W. | 6.00 W. | 5.75 W. | 5.50 W. | 5.25 W. | 5.00 W.



600 c.p.s.    2400 c.p.s.  
 IN - PHASE  
 OUT - OF PHASE  
 TRANSMITTER  
 RECEIVER

COIL SEPARATION - 300 FEET

To accompany a report by  
 Donald W. Tully, P.Eng dated April 17, 1979

APPENDIX B  
**SECTION 15.50S.**  
 LOOKING NORTH  
 SCALE 1:1000

7.00 W

6.75 W

6.50 W

6.25 W

6.00 W

5.75 W

5.50 W

5.25 W

5.00 W

400'W.

300'W

200'W.

100'W.

Ck.

0

100'

200'

300'

- 100%

- 80

- 60

- 40

- 20

+

- 20

- 40

- 60

- 80

- 100%

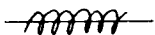
PERCENT CHANGE FROM NORMAL FIELD STRENGTH

600  
c.p.s.

2400  
c.p.s.

IN - PHASE

OUT - OF PHASE



TRANSMITTER



RECEIVER

COIL SEPARATION - 300 FEET

APPENDIX B

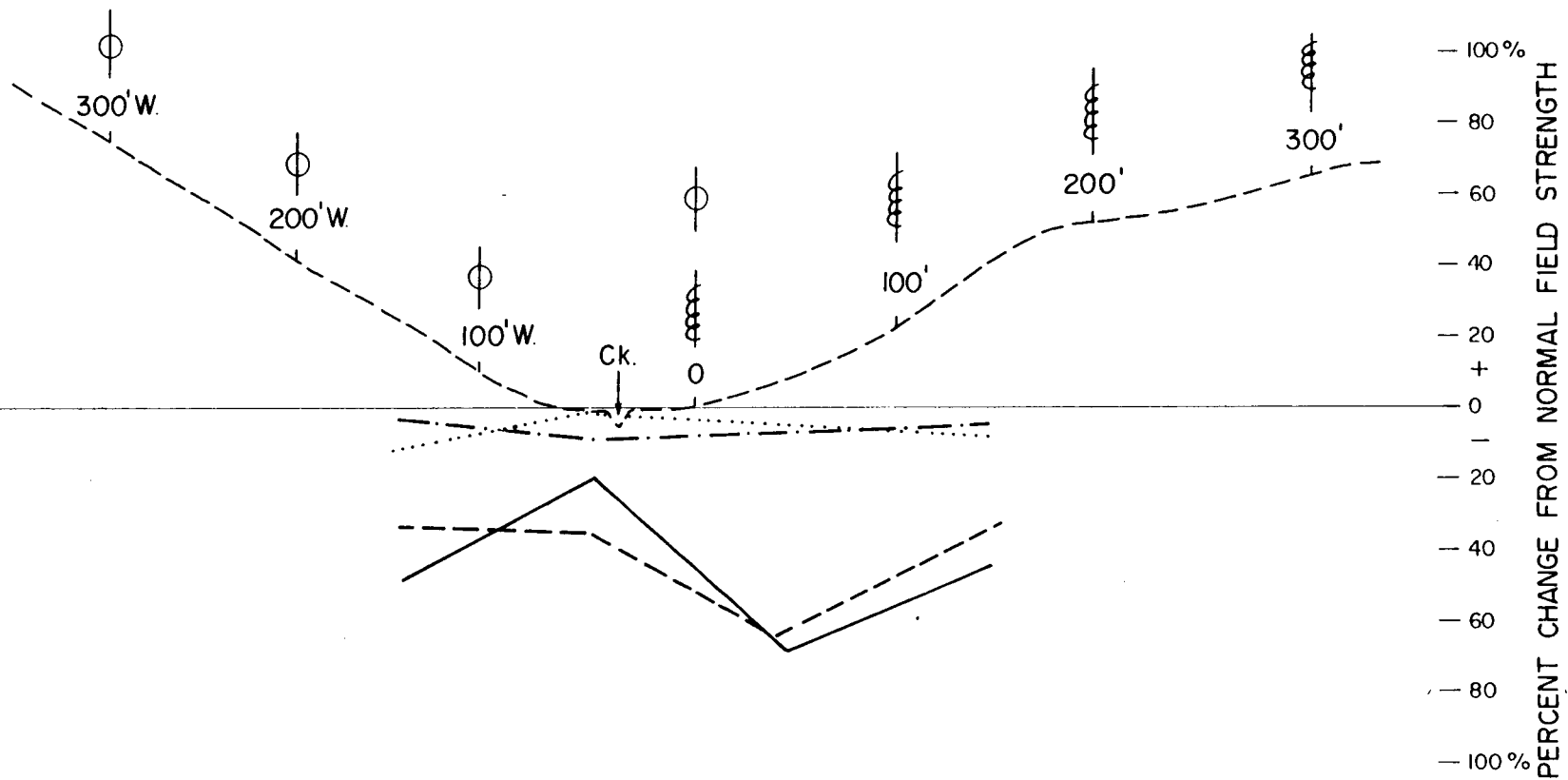
SECTION 15.75S.

LOOKING NORTH

SCALE 1:1000

To accompany a report by  
Donald W. Tully, P.Eng. dated April 17, 1979

7.00 W.    6.75 W.    6.50 W.    6.25 W.    6.00 W.    5.75 W.    5.50 W.    5.25 W.    5.00 W.

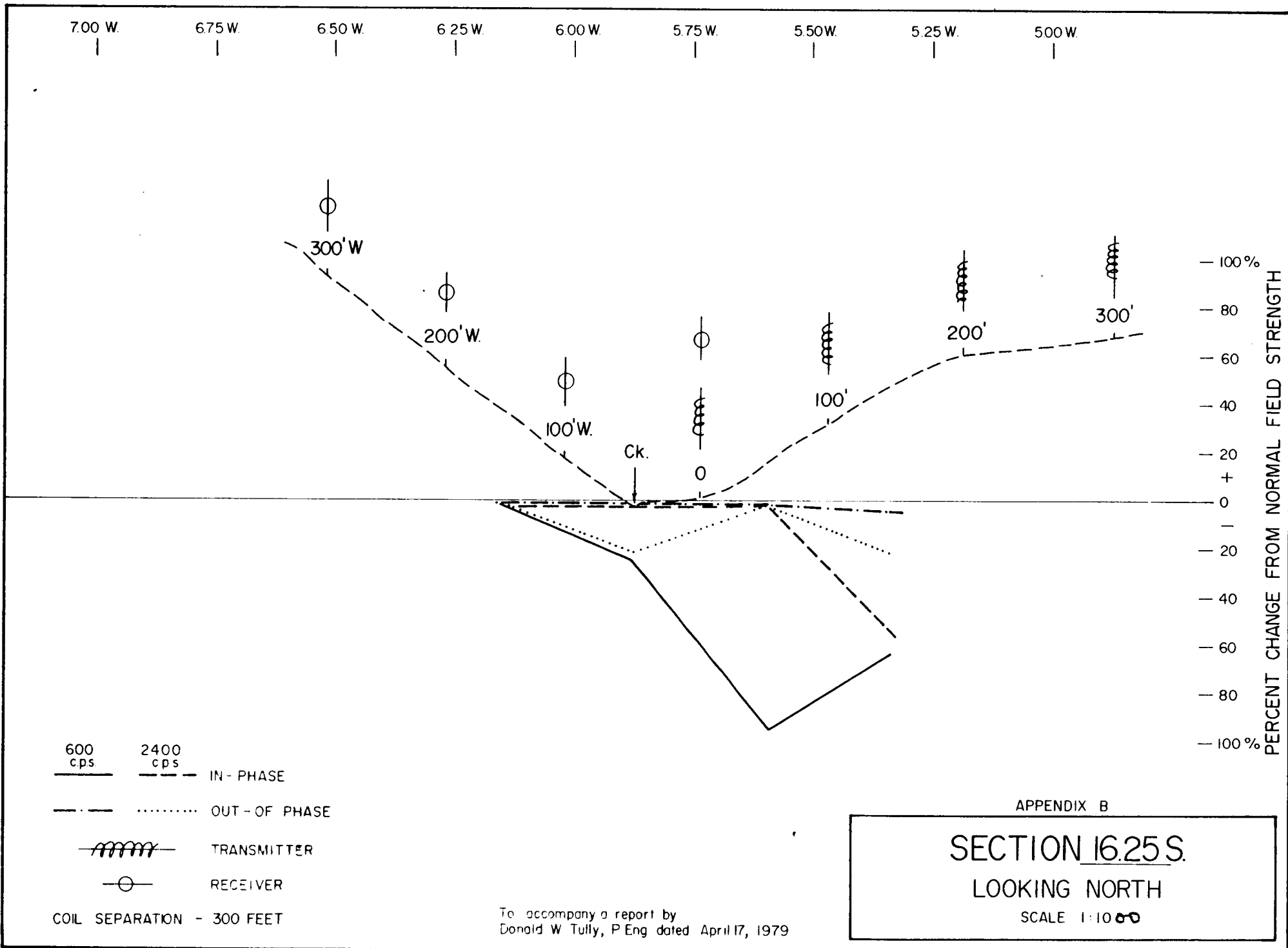


600 c.p.s.    2400 c.p.s.    IN - PHASE  
 - - - - -    .....    OUT - OF PHASE  
 ————    TRANSMITTER  
 ○    RECEIVER

COIL SEPARATION - 300 FEET

To accompany a report by  
 Donald W. Tully, P.Eng. dated April 17, 1979

APPENDIX B  
**SECTION 16.00S.**  
 LOOKING NORTH  
 SCALE 1:1000



7.00 W.

6.75 W.

6.50 W.

6.25 W.

6.00 W.

5.75 W.

5.50 W.

5.25 W.

5.00 W.

300' W

200' W

100' W

Ck.

0

100'

200'

300'

- 100%

- 80

- 60

- 40

- 20

+ 0

- 20

- 40

- 60

- 80

- 100%

PERCENT CHANGE FROM NORMAL FIELD STRENGTH

600  
c.p.s.

2400  
c.p.s.

IN - PHASE

-----

.....

OUT - OF PHASE

— m m m —

TRANSMITTER

— ⊙ —

RECEIVER

COIL SEPARATION - 300 FEET

APPENDIX B

SECTION 16.25 S.

LOOKING NORTH

SCALE 1:1000

To accompany a report by  
Donald W Tully, P Eng dated April 17, 1979

7.00 W

6.75 W

6.50 W

6.25 W

6.00 W

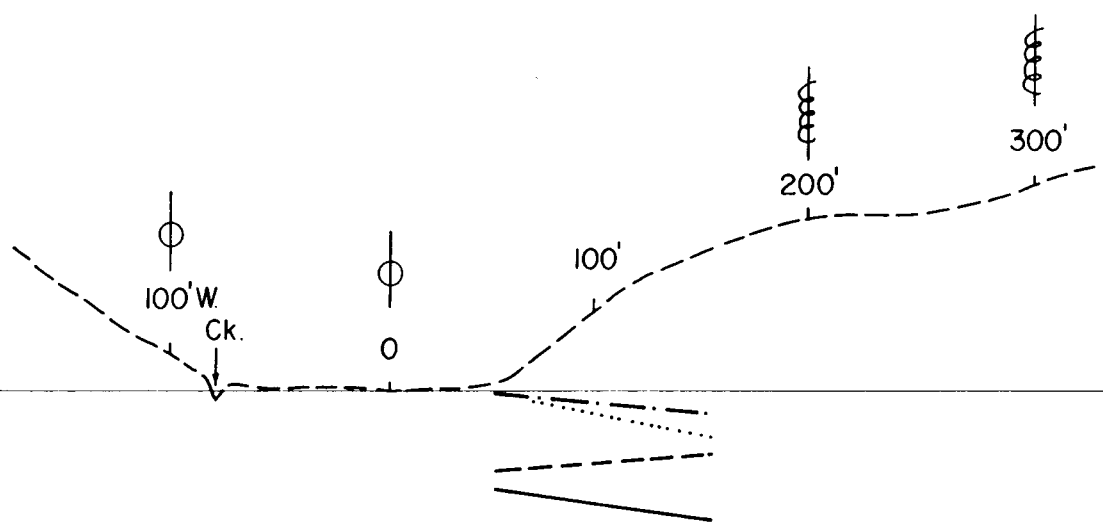
5.75 W

5.50 W

5.25 W

5.00 W

PERCENT CHANGE FROM NORMAL FIELD STRENGTH



600 c.p.s.

2400 c.p.s.

IN - PHASE

OUT - OF PHASE



TRANSMITTER



RECEIVER

COIL SEPARATION - 300 FEET

APPENDIX B

SECTION 16.50S.

LOOKING NORTH

SCALE 1:1000

To accompany a report by  
Donald W. Tully, P.Eng. dated April 17, 1979

7.00 W

6.75 W

6.50 W

6.25 W

6.00 W

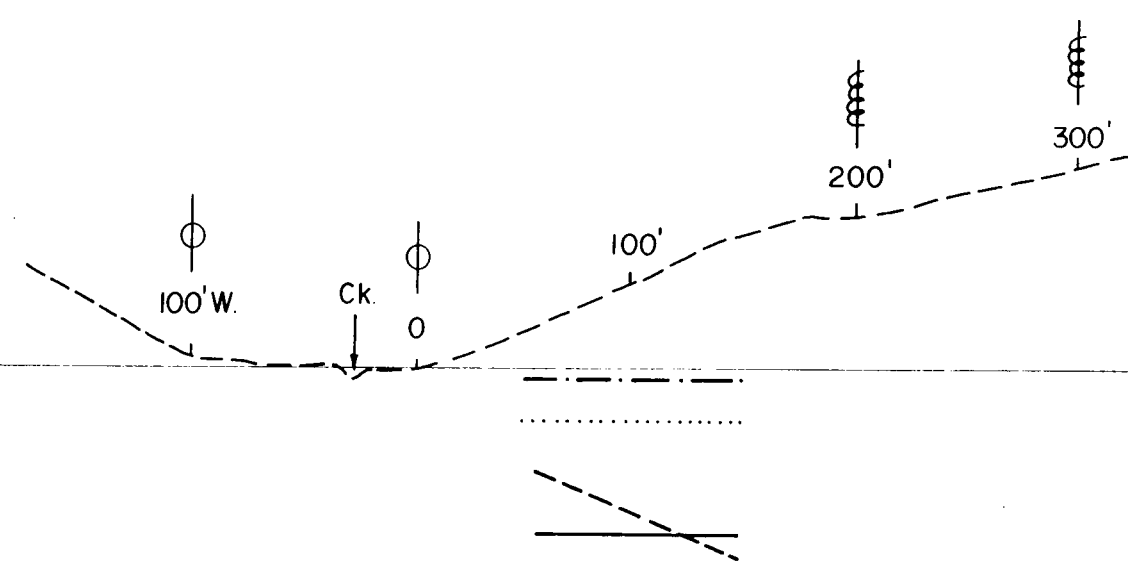
5.75 W

5.50 W

5.25 W

5.00 W

100%  
80  
60  
40  
20  
+  
0  
-20  
-40  
-60  
-80  
-100%  
PERCENT CHANGE FROM NORMAL FIELD STRENGTH



600 c.p.s.      2400 c.p.s.  
 IN - PHASE  
 OUT - OF PHASE  
 TRANSMITTER  
 RECEIVER

COIL SEPARATION - 300 FEET

To accompany a report by  
Donald W. Tully, P.Eng. dated April 17, 1979

APPENDIX B  
**SECTION 16.75S.**  
 LOOKING NORTH  
 SCALE 1:1000

7.00 W.

6.75 W.

6.50 W.

6.25 W.

6.00 W.

5.75 W.

5.50 W.

5.25 W.

5.00 W.

- 100%

- 80

- 60

- 40

- 20

+ 0

- 20

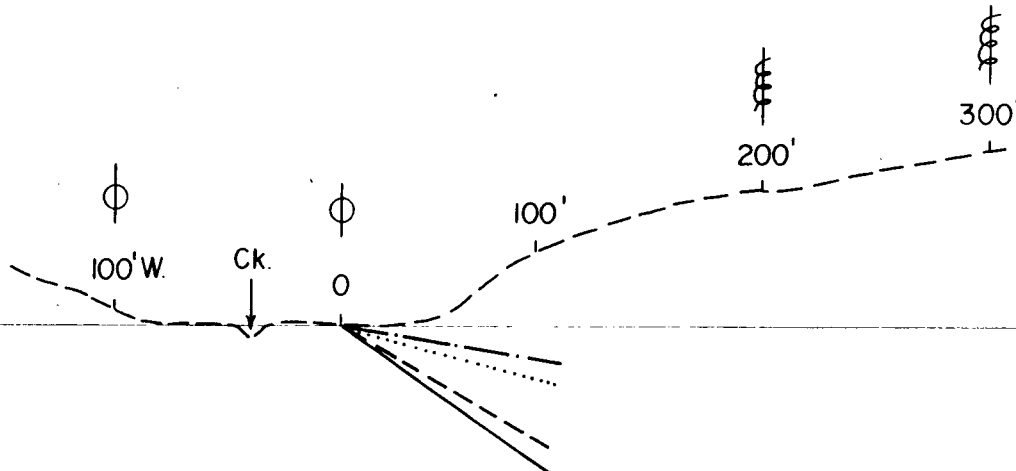
- 40

- 60

- 80

- 100%

PERCENT CHANGE FROM NORMAL FIELD STRENGTH



600  
c.p.s.

2400  
c.p.s.

IN - PHASE

— · — · — ·

.....

OUT - OF PHASE

⎓

TRANSMITTER

⊗

RECEIVER

COIL SEPARATION - 300 FEET

To accompany a report by  
Donald W. Tully, P.Eng. dated April 17, 1979

APPENDIX B

SECTION 17.00S.

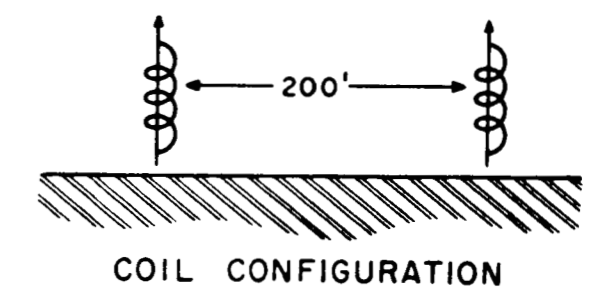
LOOKING NORTH

SCALE 1:1000

# HORIZONTAL LOOP ELECTROMAGNETIC SURVEY

VHEM UNIT

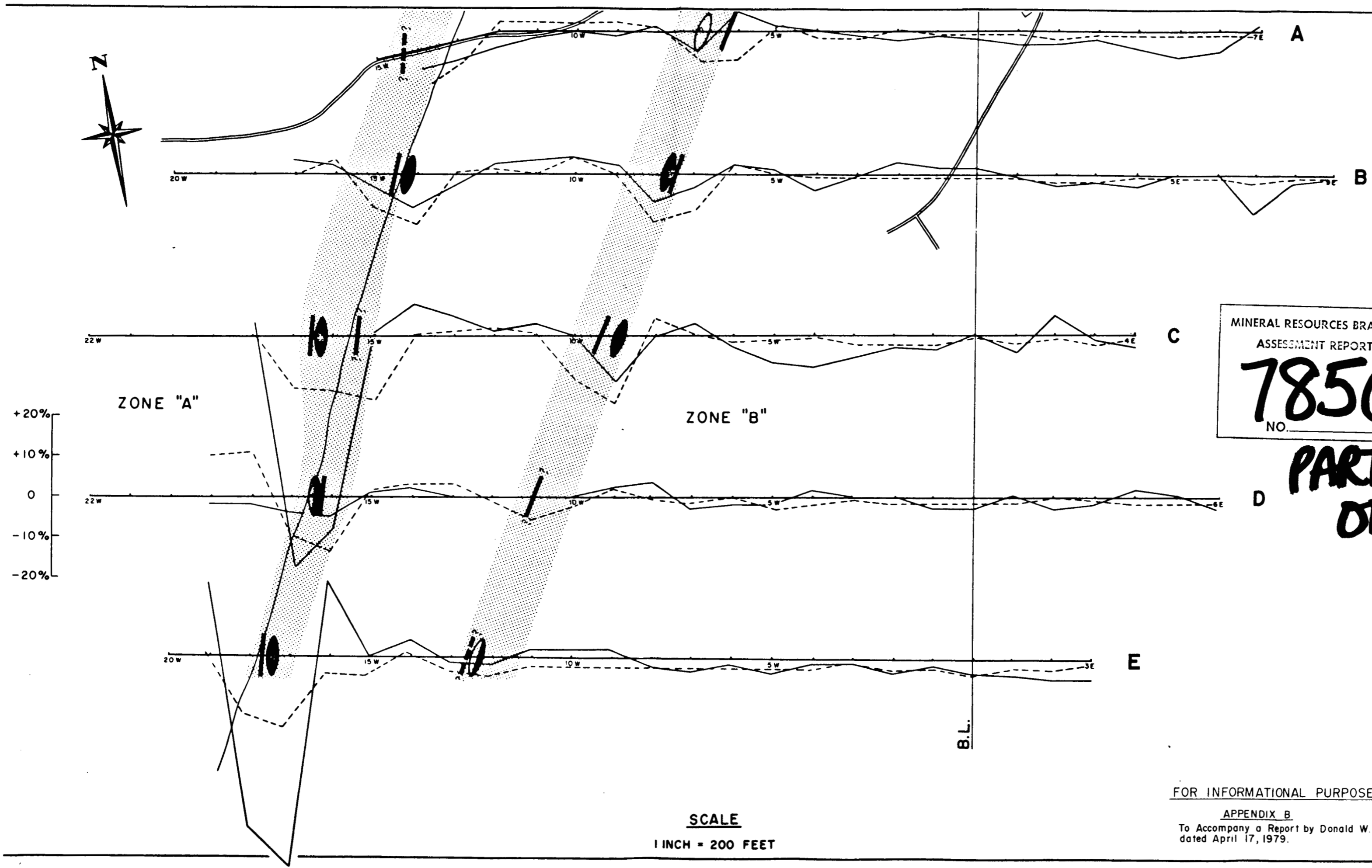
2400 c.p.s.



RESPONSE SHOWN AS PERCENT OF PRIMARY FIELD.  
 IN-PHASE ———  
 OUT-OF-PHASE - - - - -

SYMBOLS		
I.P.	O.P.	RESPONSE
●	—	STRONG
○	- - -	MODERATE
○	- - -	WEAK

**McPHAR GEOPHYSICS LIMITED**  
 A GEOPHYSICAL CASE HISTORY  
 CAVENDISH TWP., ONTARIO



MINERAL RESOURCES BRANCH  
 ASSESSMENT REPORT  
**7850**  
 NO.

**PART 2  
 OF 2**

FOR INFORMATIONAL PURPOSES ONLY

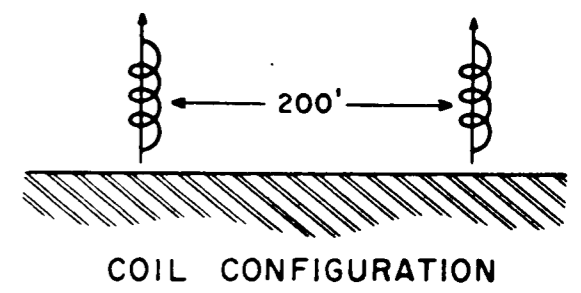
APPENDIX B  
 To Accompany a Report by Donald W. Tully  
 dated April 17, 1979.



# HORIZONTAL LOOP ELECTROMAGNETIC SURVEY

VHEM UNIT

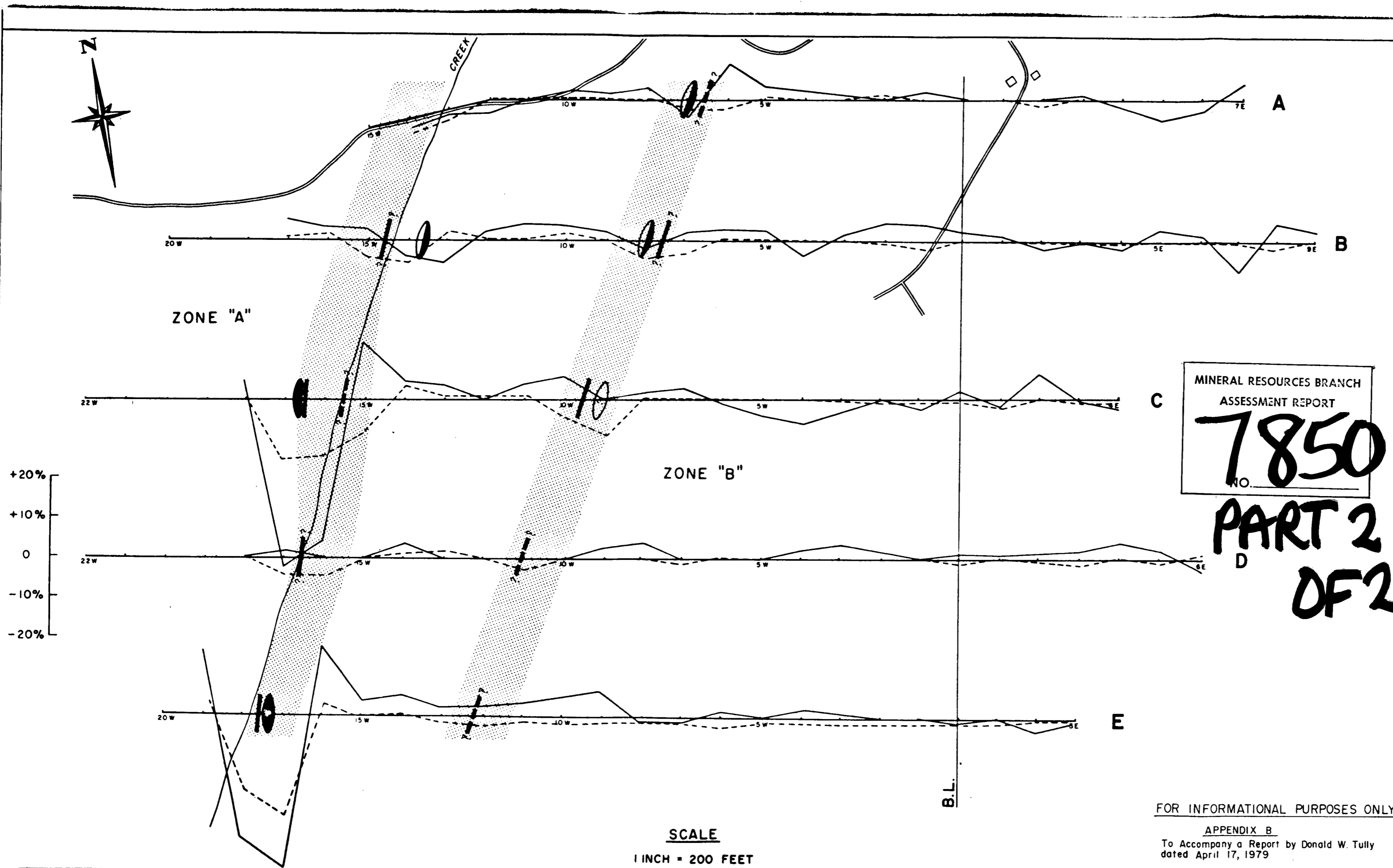
600 c.p.s.



RESPONSE SHOWN AS PERCENT OF PRIMARY FIELD.  
 IN-PHASE ———  
 OUT-OF-PHASE - - - - -

**SYMBOLS**

I.P.	O.P.	RESPONSE
●	—	STRONG
◐	- - -	MODERATE
○	- · - · -	WEAK



MINERAL RESOURCES BRANCH  
 ASSESSMENT REPORT  
**7850**  
 NO.

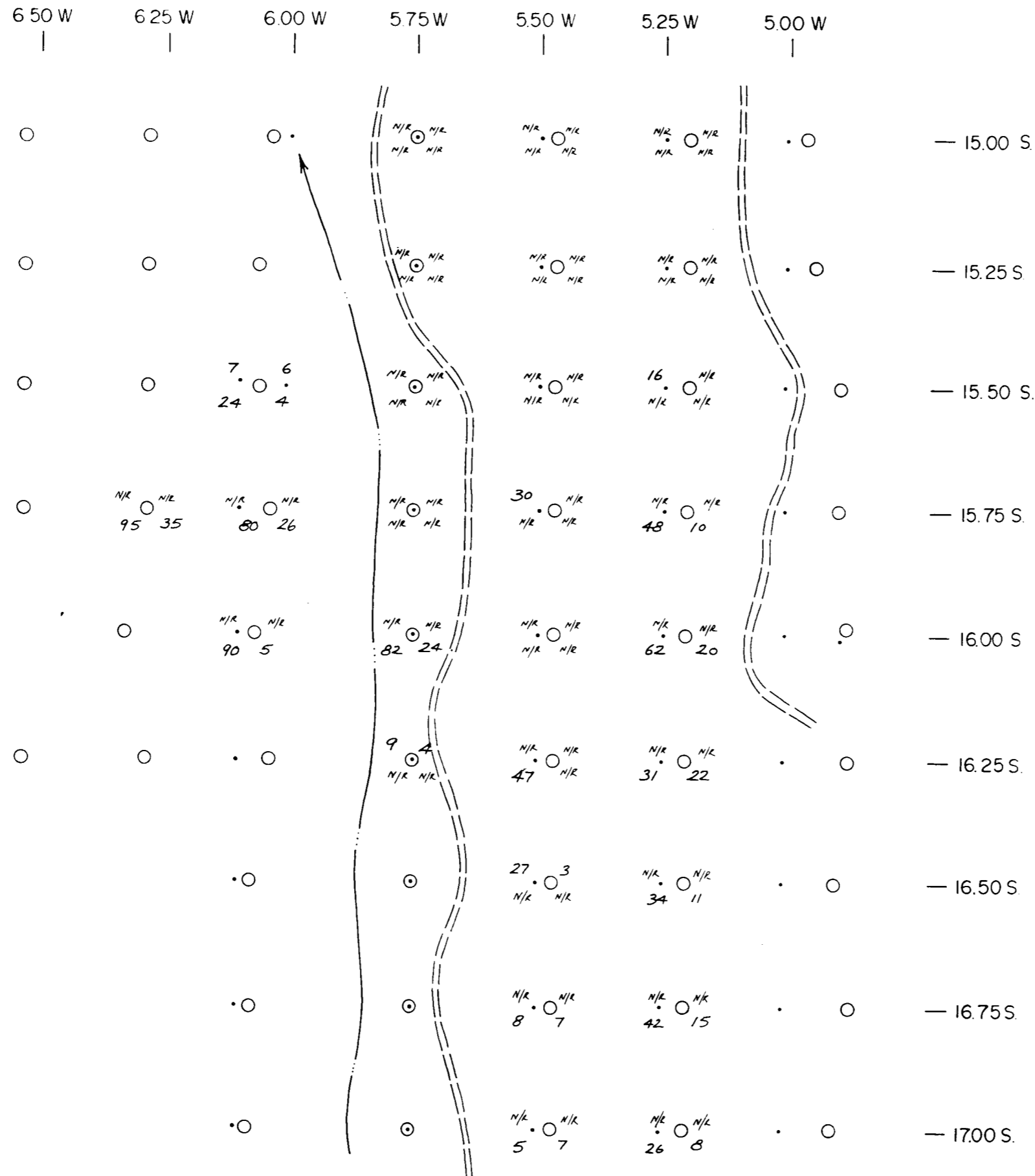
**PART 2**  
**OF 2**

+20%  
 +10%  
 0  
 -10%  
 -20%

**SCALE**  
 1 INCH = 200 FEET

FOR INFORMATIONAL PURPOSES ONLY  
 APPENDIX B  
 To Accompany a Report by Donald W. Tully  
 dated April 17, 1979

**McPHAR GEOPHYSICS LIMITED**  
 A GEOPHYSICAL CASE HISTORY  
 CAVENDISH TWP, ONTARIO



MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**7850**  
NO.

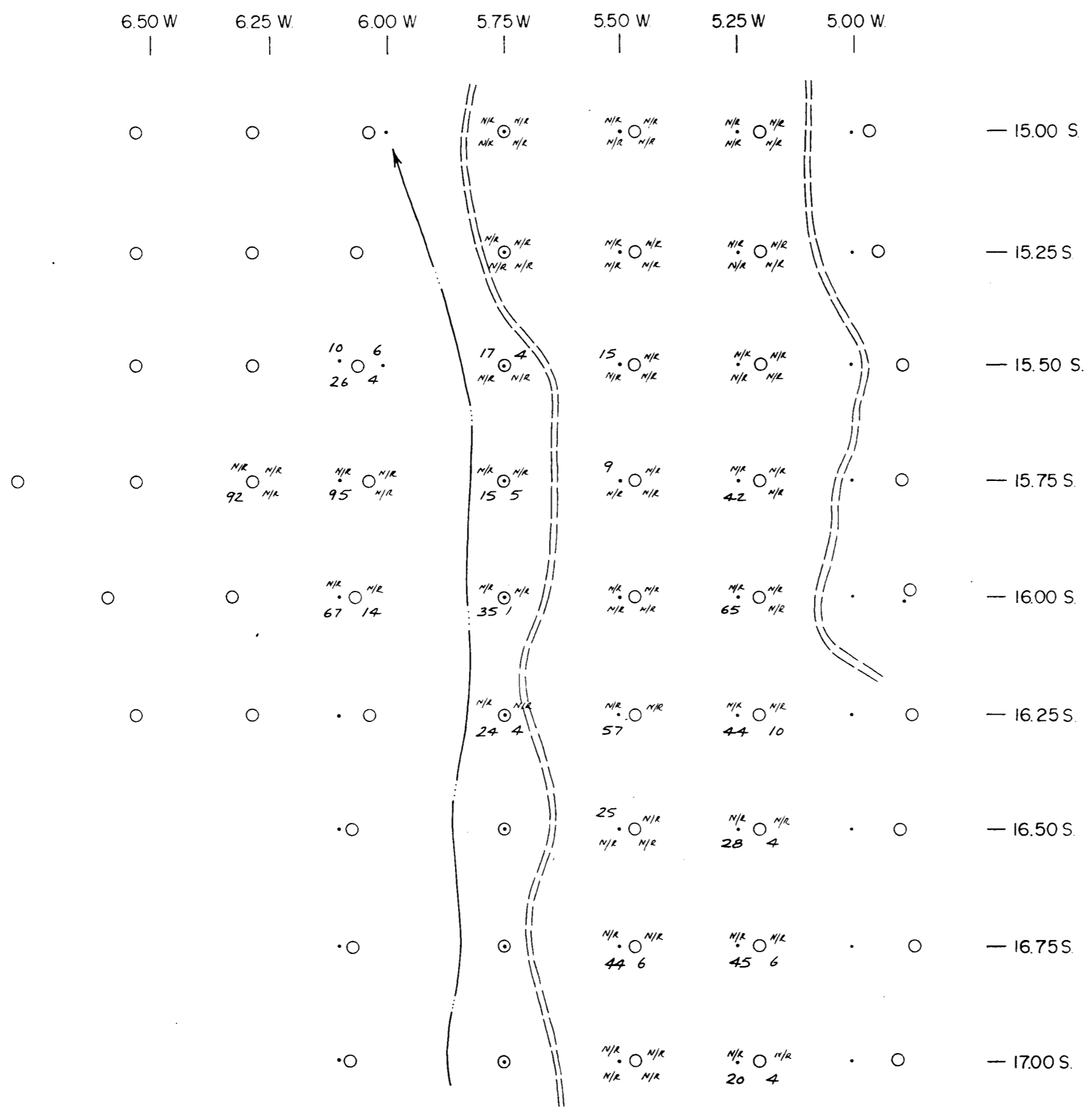
**PART 2  
OF 2**

- LEGEND**
- I.P. OP
  - + O VHEM SURVEY STATION
  - RONKA SURVEY STATION
  - CREEK
  - BUSH ROAD
  - N/R NO READING

*Donald W. Tully*

FIGURE 6b  
**PLAN**  
2400 cps  
**HORIZONTAL LOOP SURVEY**  
**McPHAR VHEM**  
COIL SEPARATION 200 FEET  
SCALE 1:1000

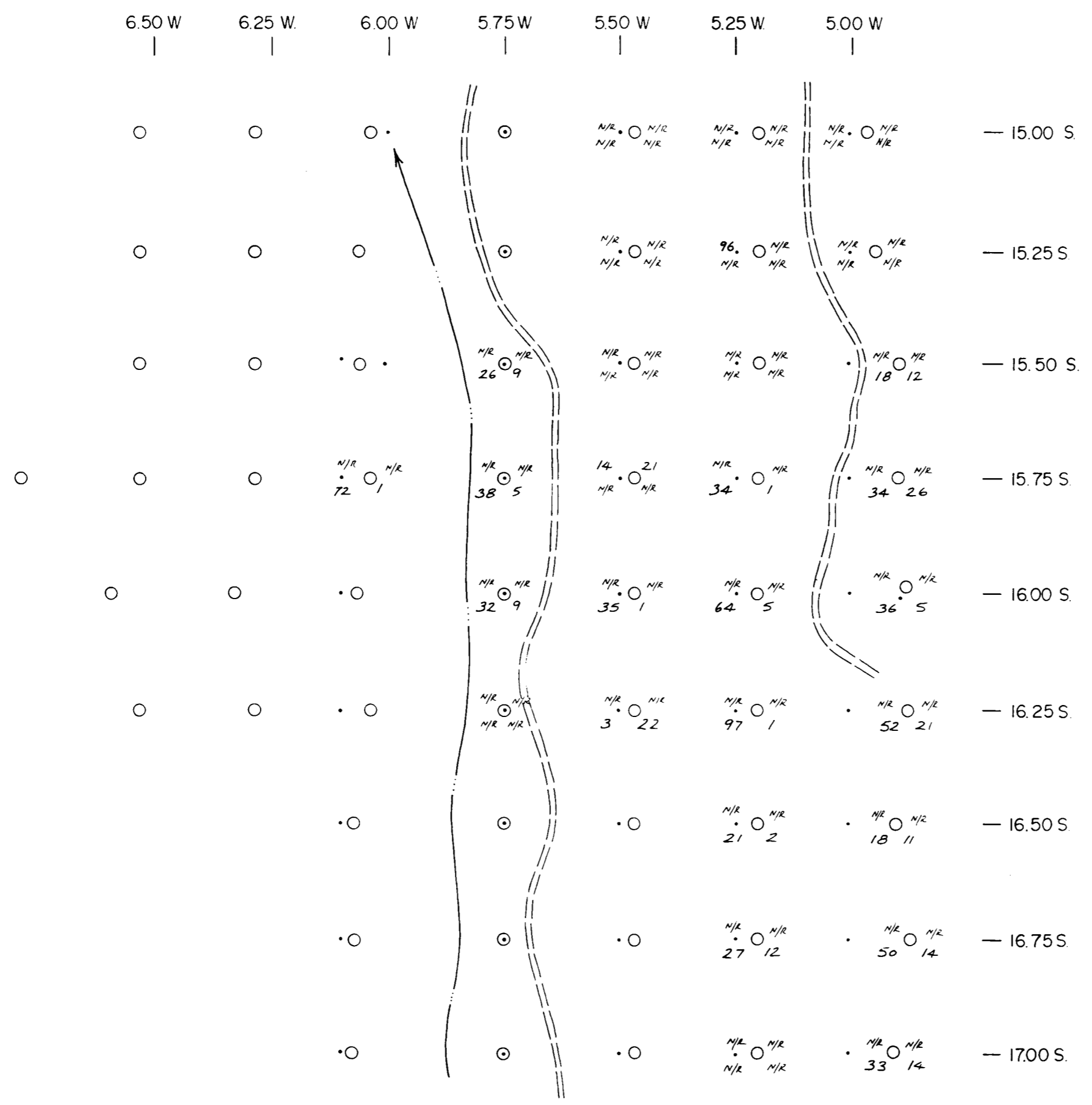
TO ACCOMPANY A REPORT BY  
DONALD W. TULLY, P. ENG. DATED APRIL 17, 1979



- LEGEND**
- I.P. OP.
  - VHEM SURVEY STATION
  - RONKA SURVEY STATION
  - CREEK
  - == BUSH ROAD
  - N/R NO READING

*Donald W. Tully*

FIGURE 6a  
**PLAN**  
**600 cps**  
**HORIZONTAL LOOP SURVEY**  
**McPHAR VHEM**  
**COIL SEPARATION 200 FEET**  
**SCALE 1:1000**



**LEGEND**

I.P. OP.  
+ O VHEM SURVEY STATION  
• RONKA SURVEY STATION  
— CREEK  
--- BUSH ROAD  
N/R NO READING

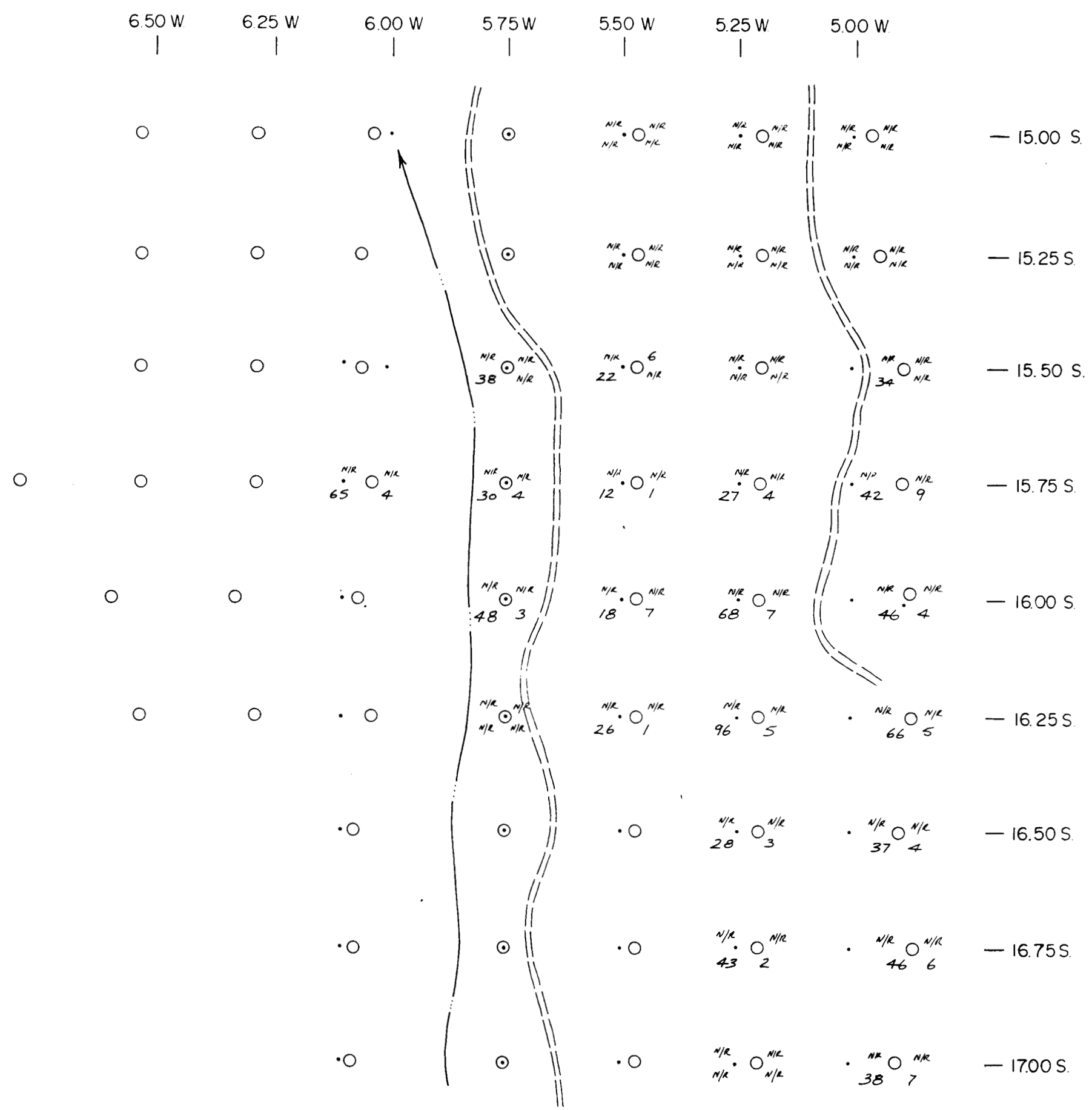
*Donald W. Tully*

FIGURE 5B  
**PLAN**  
2400 cps  
**HORIZONTAL LOOP SURVEY**  
**McPHAR VHEM**  
COIL SEPARATION 300 FEET  
SCALE 1:1000

TO ACCOMPANY A REPORT BY  
DONALD W. TULLY, P.ENG. DATED APRIL 17, 1979

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**7850**  
NO.

**PART 2072**



**LEGEND**

- I.P. OP.
- + O VHEM SURVEY STATION
- RONKA SURVEY STATION
- CREEK
- BUSH ROAD
- N/R NO READING

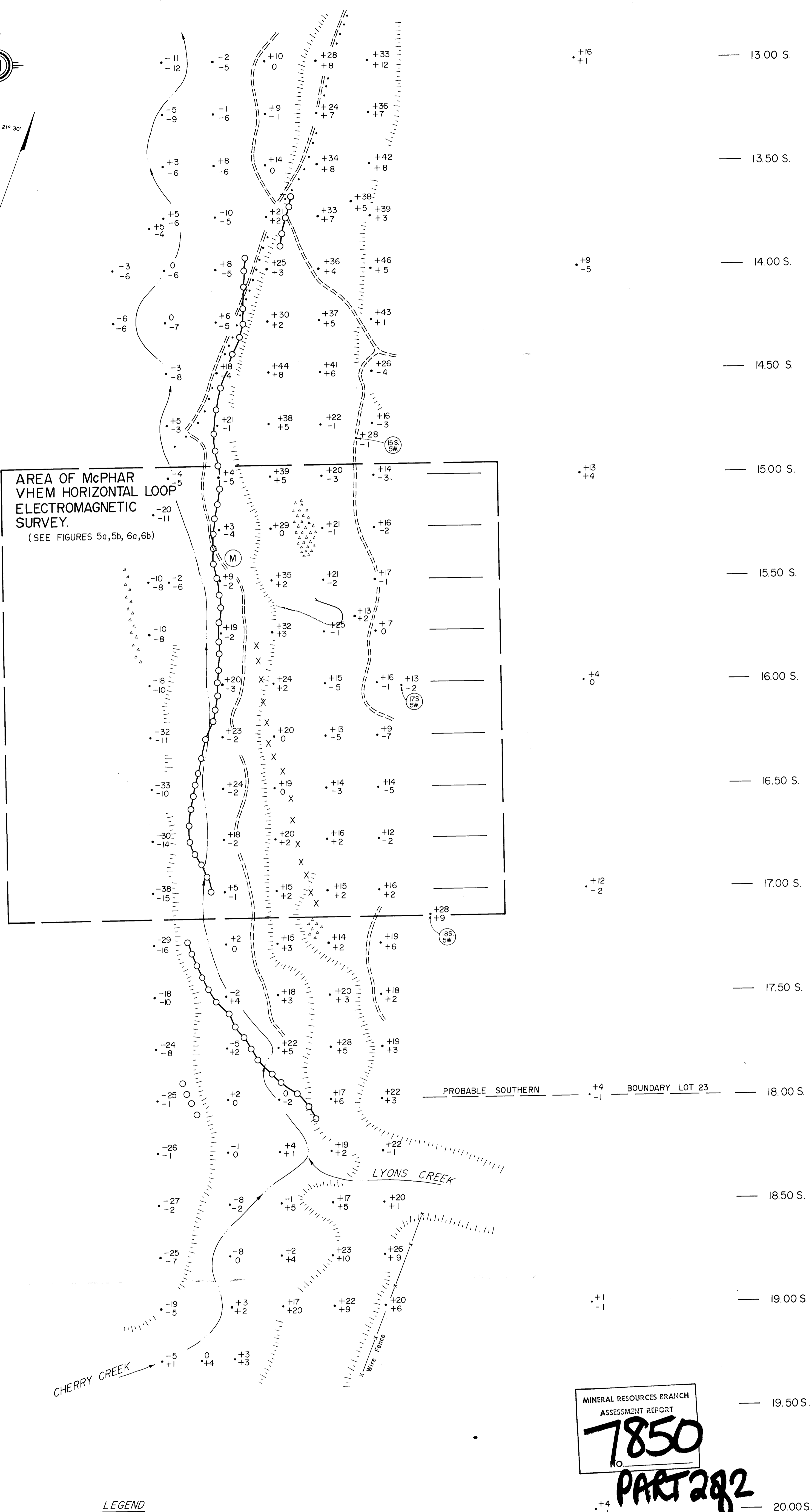
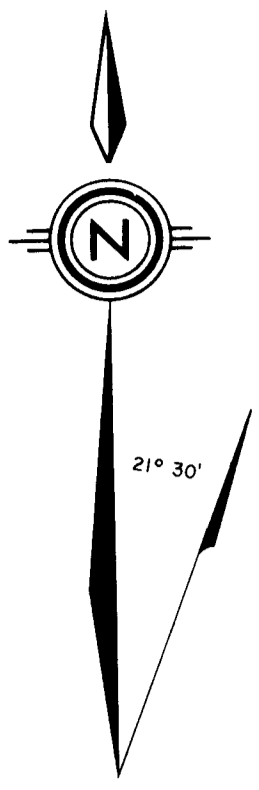
*Donald W. Tully*

FIGURE 5a

**PLAN**  
**600 cps**  
**HORIZONTAL LOOP SURVEY**  
**McPHAR VHEM**  
**COIL SEPARATION 300 FEET**  
**SCALE 1:1000**

TO ACCOMPANY A REPORT BY  
DONALD W. TULLY, P.ENG. DATED APRIL 17, 1979

7.00 W. 6.00 W. 5.00 W. 4.00 W. 3.00 W.



AREA OF McPHAR VHEM HORIZONTAL LOOP ELECTROMAGNETIC SURVEY.  
(SEE FIGURES 5a,5b, 6a,6b)

- LEGEND**
- -27  
• -2 RONKA EM-16 STATION AND SURVEY READING
  - ○ ○ ○ ○ RONKA EM-16 ANOMALY INDICATED
  - X X X X X McPHAR VHEM ELECTROMAGNETIC ANOMALY INDICATED
  - ==== BUSH ROAD - TRAIL
  - ~~~~~ CREEK
  - △ △ △ △ △ ROCK OUTCROP AREA INDICATED

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**7850**  
No.

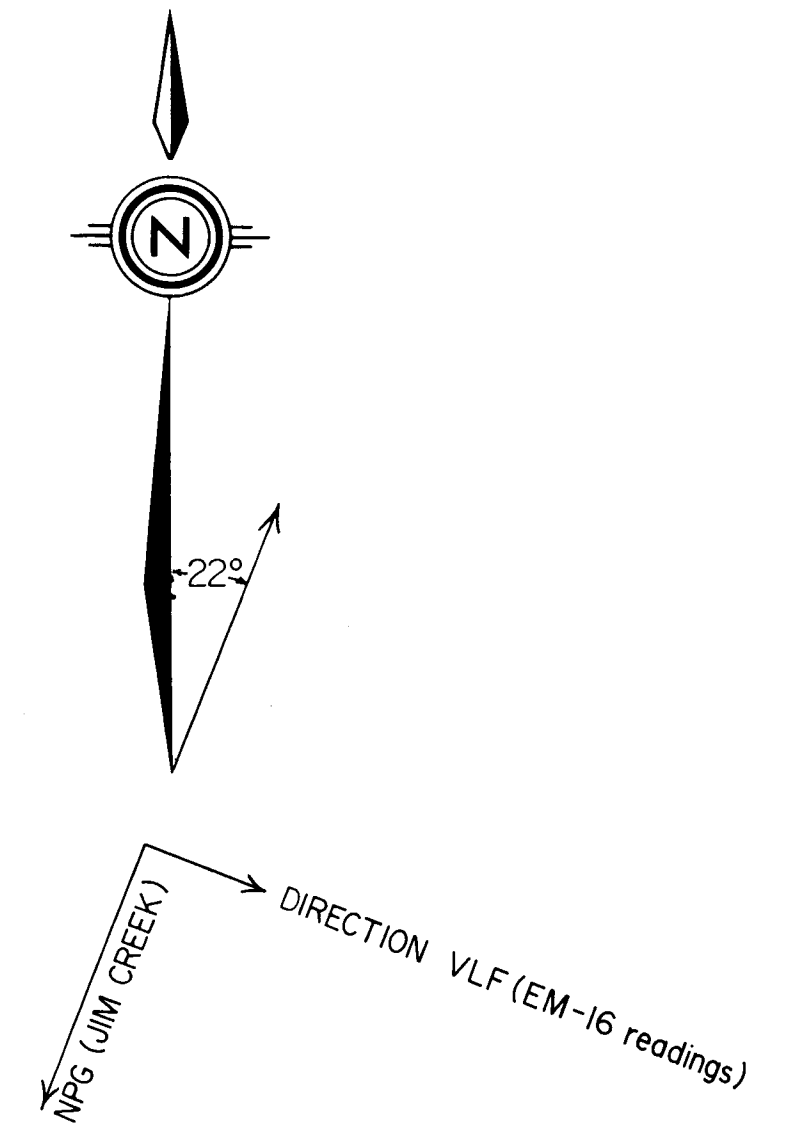
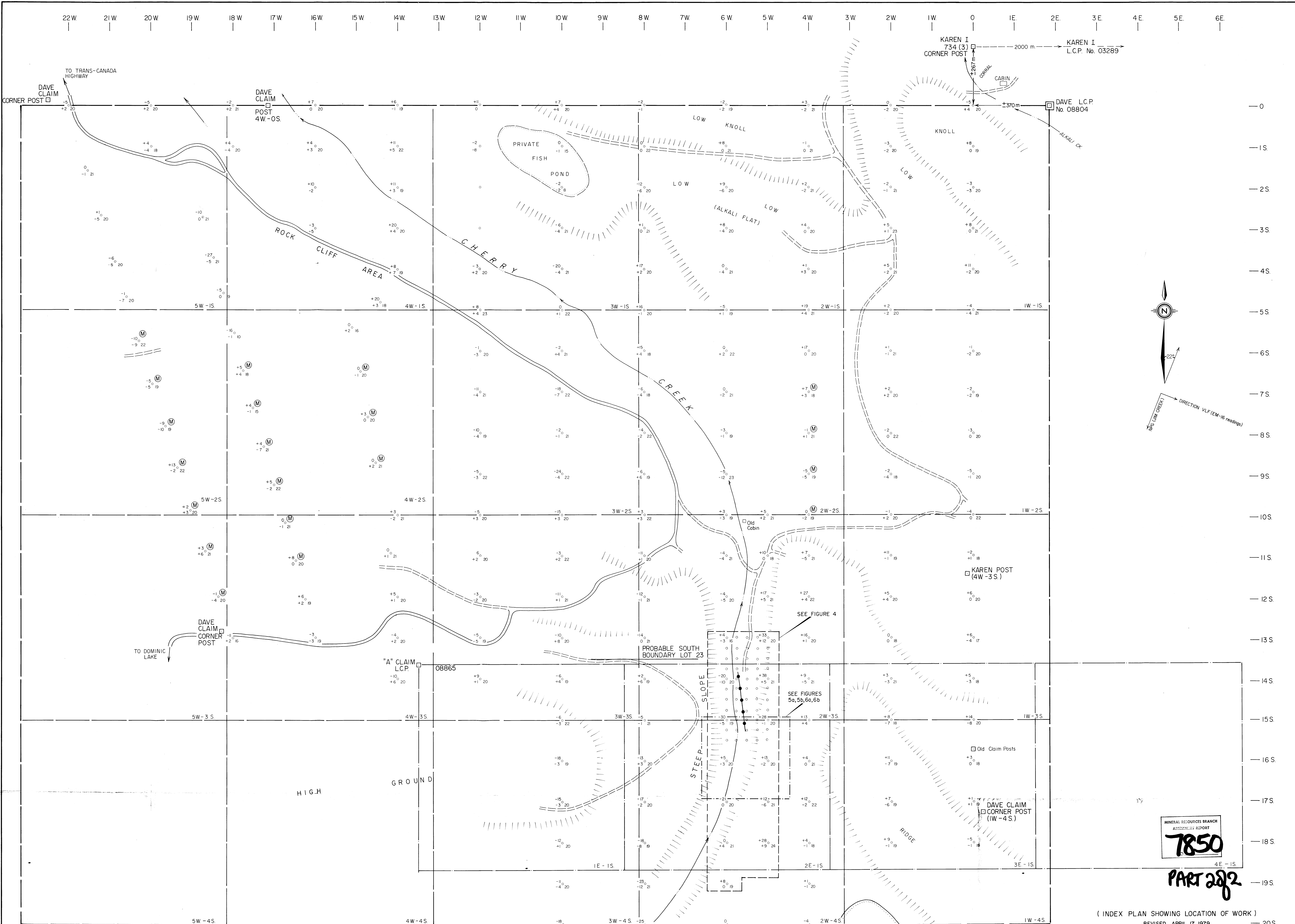
**PART 282**

**DORADO RESOURCES LTD.**  
AFTON-CHERRY CREEK AREA  
KAMLOOPS M.D.

**PLAN**  
RONKA EM-16 SURVEY READINGS  
AND LOCATION  
McPHAR VHEM HORIZONTAL LOOP SURVEY

SCALE 1:10000 APRIL 17, 1979  
To accompany a report by DONALD W. TULLY, P. ENG., dated April 17, 1979.

*Donald W. Tully*



MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**7850**

**PART 282**

(INDEX PLAN SHOWING LOCATION OF WORK)  
REVISED APRIL 17, 1979

**DORADO RESOURCES LTD.**  
RECONNAISSANCE VLF-ELECTROMAGNETIC &  
RADIOMETRIC SURVEY  
**PLAN SHOWING READINGS  
DAVE & "A" CLAIMS**

CHERRY CREEK-AFTON MINE AREA  
KAMLOOPS MINING DIVISION

m 50 0 50 100 150 200 250 m

To accompany a report by Donald W. Tully,  
P. Eng., dated March 16, 1979

Fig 5-7

*Donald W. Tully*

**LEGEND**

- LCP LEGAL CORNER POST
- CLAIM POST LOCATED DURING SURVEY
- APPROX DAVE CLAIM BOUNDARY
- - - APPROX "A" CLAIM BOUNDARY
- 15-4W CLAIM UNIT NUMBER
- 8 IN-PHASE
- +4 SCINT. READING (C.P.S.)
- OUT-OF PHASE
- APPARENT CONDUCTOR
- == TRUCK ROAD
- ==== LOGGING TRAIL
- CREEK
- ⋄ HIGHER GROUND
- Ⓜ AREA LOCAL MAG. ATT'N NOTED

ALL LOCATIONS ARE WITHIN THE LIMITS OF ACCURACY OF THE SURVEY DONE BY COMPASS AND TOPOLITE CHAIN