



42B09NW0003 83.1436 WATSON

010

INTRODUCTION

Project Avonhoe Group 77 consists of thirty contiguous claims, numbers S120927 to S120938 incl. and S120975 to S120992 incl., located in the southwest corner of Watson Township and adjoining portions of Algon, Wessworth and Berford Township, fifty miles approximately northwest of Timmins, Ontario. The claims were staked in February and recovered in March, 1964.

Exploration was carried out intermittently during the period June 20 to October 14, 1964. Work consisted of a 12 mile picket line system, a magnetometer survey, a vertical loop electromagnetic survey, geological mapping, soil sampling, stripping and trenching.

The work was done by Geophysical Engineering & Surveys personnel under the direct supervision of the writer.

The work was done on and applied to claims S120933, S120934, S120975, S120976, S120980, S120981, S120984, S120985, S120990 and S120991. It will be noted that a portion of grid and survey areas fall outside the boundaries of the above claims. Allowance has been made for this and no assessment credits have been claimed for that work.

Access to the claims is by helicopter from Timmins or by float-type aircraft to Dryngton Lake some two miles to the east of the claims.

MAGNETOMETER SURVEY

The magnetometer survey was made with a charges Fluxgate model V. F. 1 instrument with a scale constant of 20 gamma's per scale division. Approximately 500 stations were read at 100 foot intervals along all picket lines. Diurnal readings were taken on permanent base stations at one hour intervals. All readings were corrected and

plotted as shown on the accompanying map.

ELECTROMAGNETIC SURVEY

The electromagnetic survey was done with the Sharpes S. E. 200 portable vertical loop instrument. Readings were taken at 100 foot intervals on every line using the parallel line method with a receiver - transmitter interval of 400 feet. Following this all cross-overs located were surveyed in detail using the fixed transmitter method with readings at 50 foot intervals on the adjoining lines. In this way each conductor was accurately traced and outlined. Approximately 200 stations were read.

The results were plotted as shown on the accompanying map.

GEOLOGICAL MAP AND GEOCHEMICAL SURVEY

Detailed geological mapping of the grid was completed previous to running the surveys. Following the surveys further work was done in the area of the conductors. At this time 128 soil samples were taken at 10 foot intervals across the overburden covered portions of the conductors. These were tested for copper, zinc and nickel content by spectrographic analysis.

The geology and results of the soil analyses are shown on the accompanying geological map.

STRIPPING & TRENCHING

Six locations where the conductors appeared to lie under shallow overburden were stripped and trenched with an Atlas Copco Cobra gasoline powered rock drill. Samples of the mineralization uncovered were submitted for assay.

RESULTS OF SURVEY

The magnetometer survey outlined a number of lensy anomaly trends following the trend of the formations. These would appear to be caused by magnetite in the formations.

The electromagnetic survey outlined a multitude of conductors, some of which are very strong and can be traced throughout the entire length of the grid. Some of these correlate rather poorly with the magnetic anomalies.

The geochemical survey yielded a number of strong coinciding anomalous copper-nickel areas, these located in sections of shallow overburden. Results in areas of deep overburden were seldom above background.

The geological mapping located numerous in the west one-third of the grid. These consist of quartzites, biotite-garnet-quartz gneiss with bands of garnetiferous hornblende-biotite-quartz gneiss containing sulphides. The sulphide mineralization consists of pyrite and pyrrhotite in disseminated grains and massive seams, stringers and narrow veins.

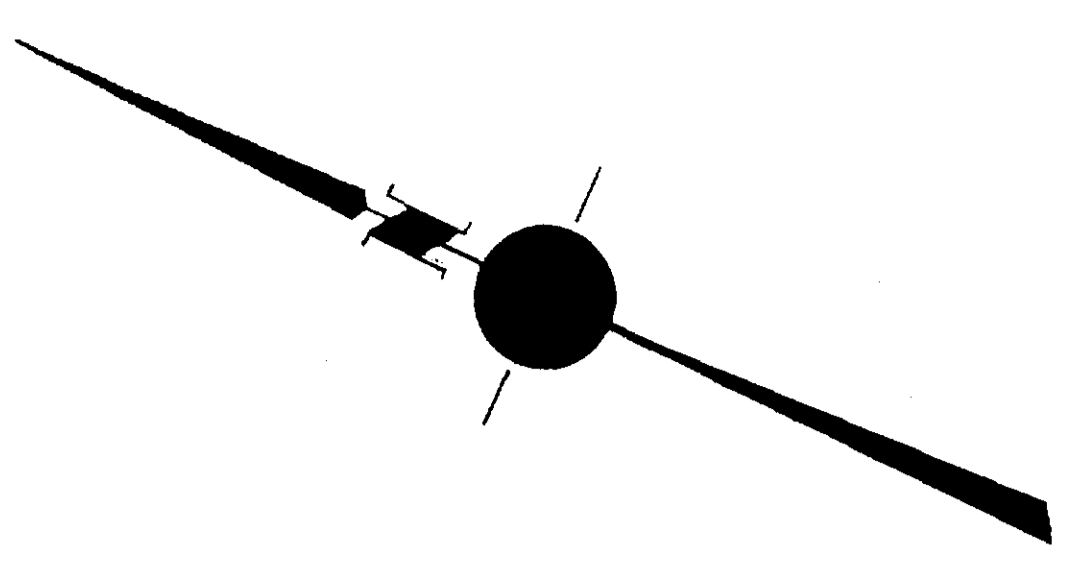
The conductors and geochemical anomalies coincide closely with these mineralized horizons and obviously cause them. The amount of mineralization is not sufficient to give conductors of strength obtained thus it is suspected that graphite is present. Graphite was located in drilling on the same conductor system some two miles to the southwest.

Strike of the formations is quite uniformly N 60° E and dip 35° to 40° to the north. The conductors indicate a gentle fold in the west central part of the grid.

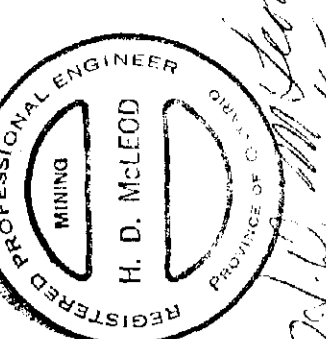
CONCLUSIONS & RECOMMENDATIONS

The conductors and geochemical anomalies are caused by hornblende gneiss seams containing sulphides and probably graphite. Surface sampling gave low values in copper only.

No further work is recommended.



GEOLOGY &
GEOCHEMICAL SURVEY.

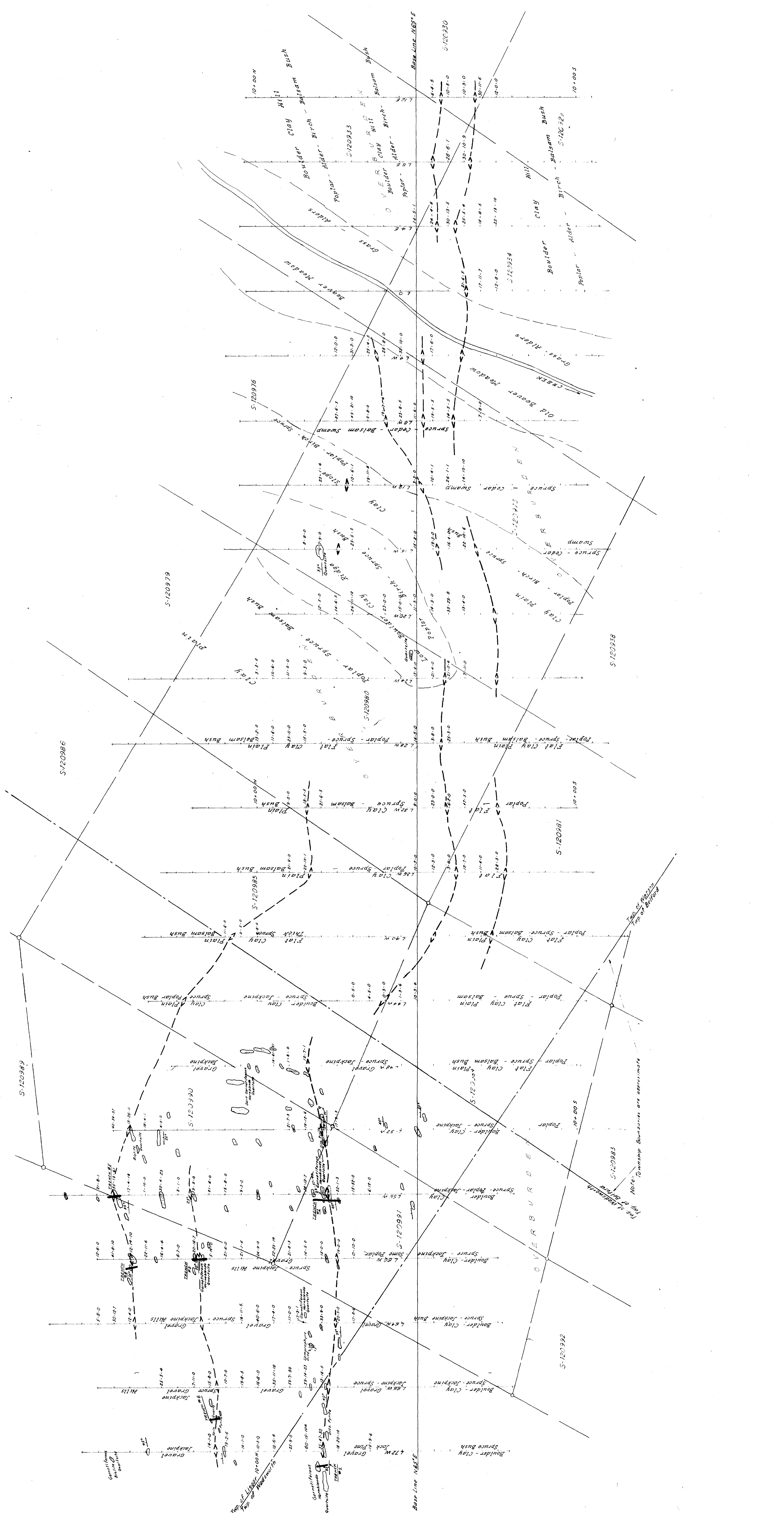


PROPERTY OF
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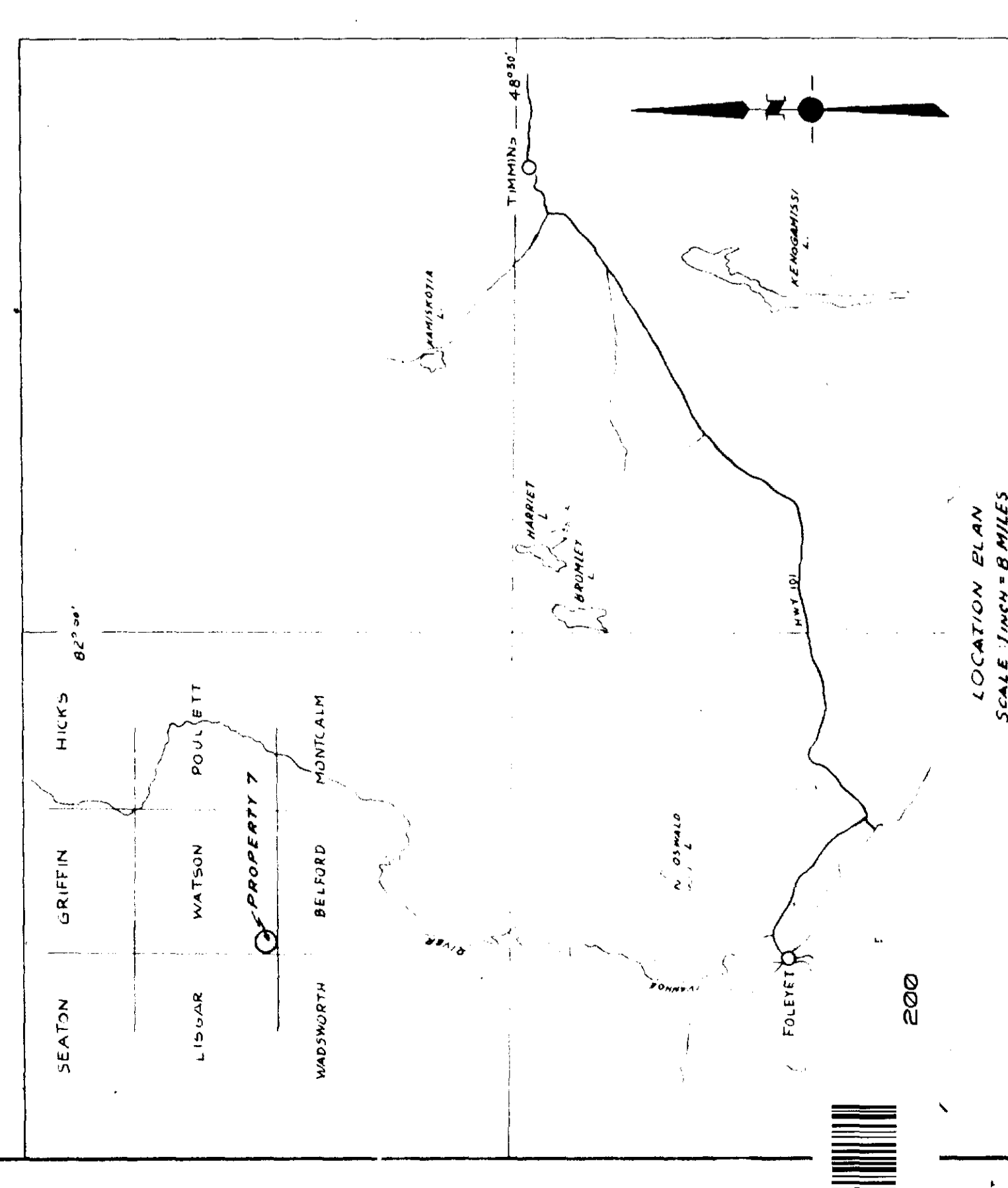
Scale: 1 inch = 200 feet
Job No. 679
Date: SEPT 1964
Drawing No. DWG. 2863



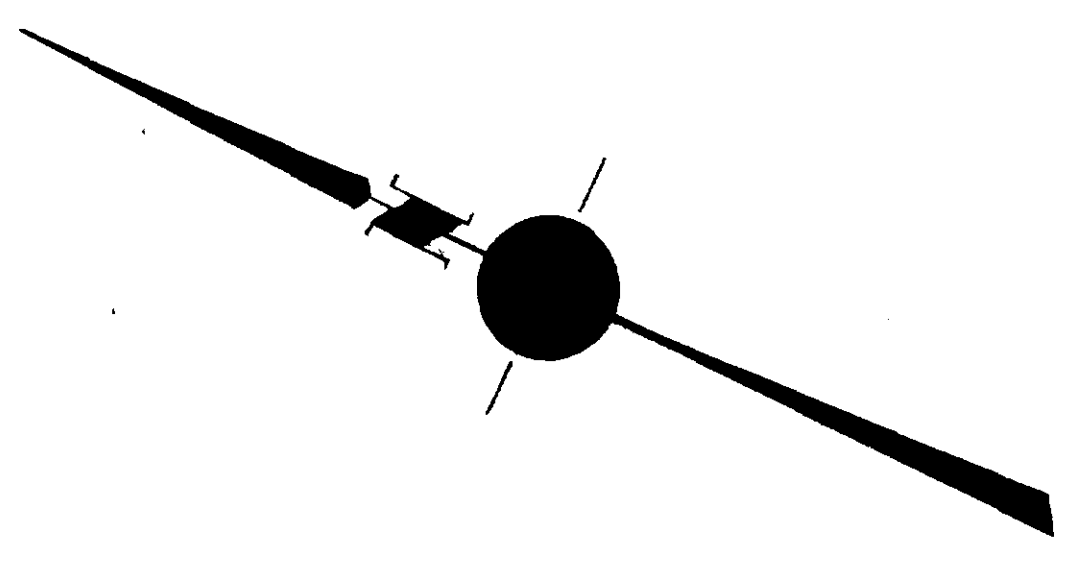
TRENCH	LENGTH	WIDTH	VOLUME	ROCK TYPE	MINERALIZATION	SAMPLE NO.	COPPER %	NICKEL %	ZINC %	MOY %
No. 1	100'	2' 5"	2500 cu ft	Granite, Quartz and Gneiss	Pyritic, Some Chalcopyrite	5818	0.03	Trace	Trace	Trace
No. 2	75'	2' 5"	1875 cu ft	Granite, Quartz, Gneiss and Gneiss	None	5820	0.07	Trace	Trace	Trace
No. 3	75'	2' 5"	1875 cu ft	Granite, Quartz, Gneiss and Gneiss	Disseminated Sulphides & Pyrite	5821	0.05	Trace	Trace	Trace
No. 4	50'	3' 0"	1500 cu ft	Granite, Quartz, Gneiss and Gneiss	Disseminated Sulphides & Pyrite	5822	0.04	Trace	Trace	Trace
No. 5	30'	3' 0"	900 cu ft	Granite, Quartz, Gneiss and Gneiss	Stringers & Disseminated Pyrite and Pyrite	5823	0.04	Trace	Trace	Trace
No. 6	50'	3' 0"	1500 cu ft	Granite, Quartz, Gneiss and Gneiss	Stringers & Disseminated Pyrite and Pyrite	5824	0.08	Trace	Trace	Trace
						5825	0.10	Trace	Trace	Trace

LEGEND

--- 10-5-0 PAM Zinc - Copper - Nickel
 --- Conductor Axis
 --- Outline of subcrop - Quartzite, gneiss.
 --- Strike slip of bedding
 --- Trench

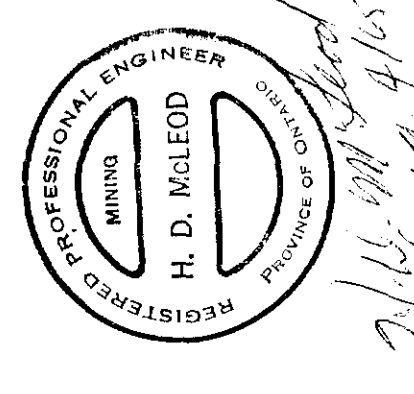


LOCATION MAP
SCALE 1" = 200'



MAGNETOMETER SURVEY

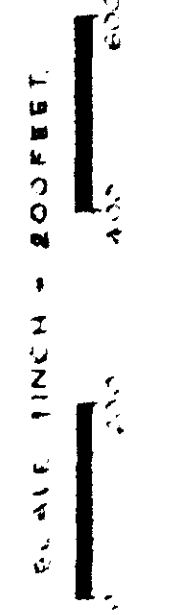
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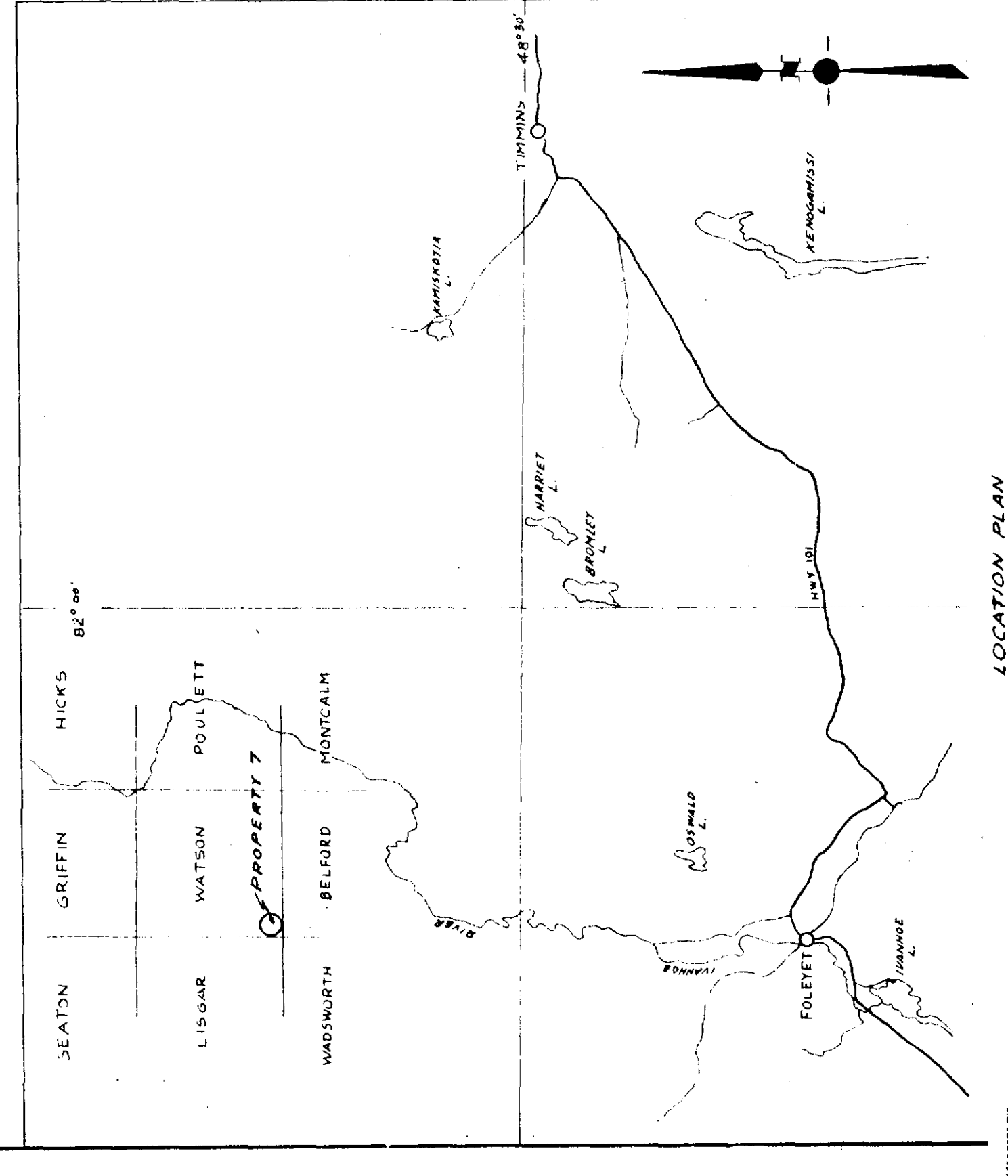
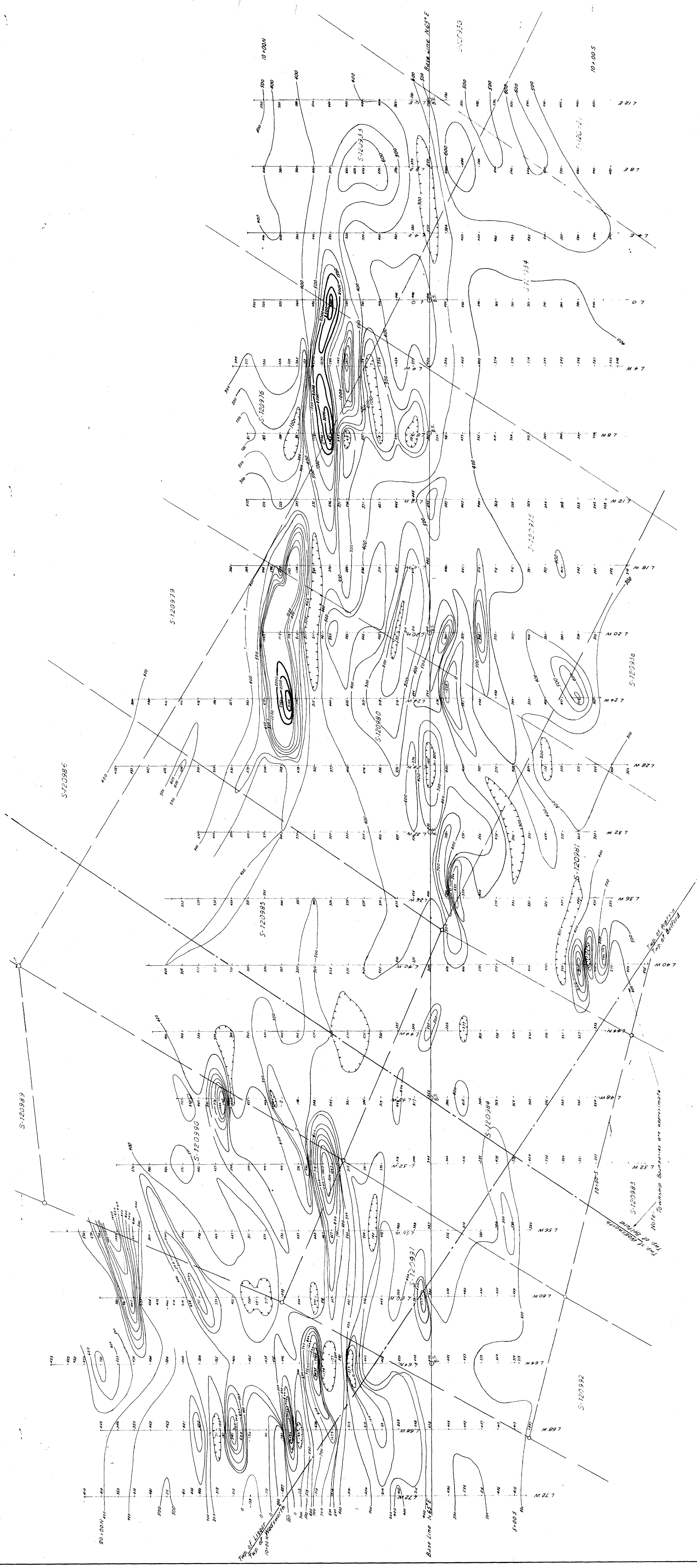
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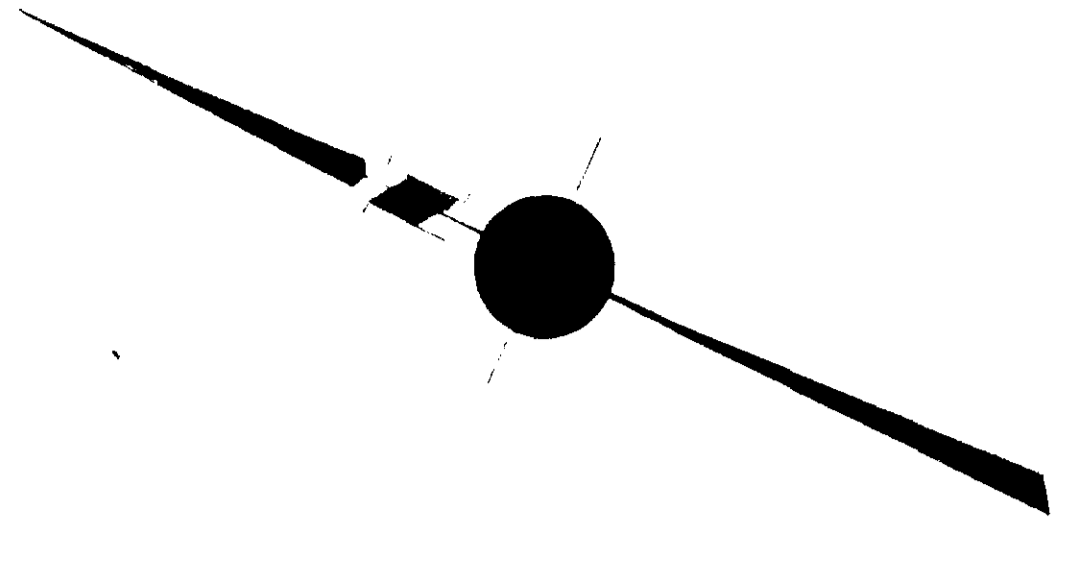
6/3/83

Note:-
Values shown thus 1-785 are in gamma
Contours shown thus 1-785 at 100 gamma
B.S. Base station
Instrument - Sigsbee Flanagan Model N61
magnetometer.
OPERATOR - C. Hissop
D. Malinor.



DATE: 1983
JOB NO. 70
JOB 679
DWG. 2864

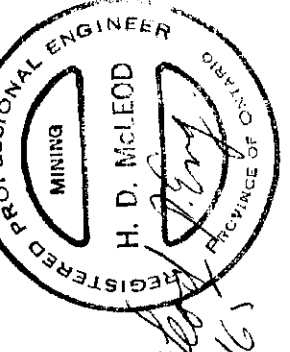




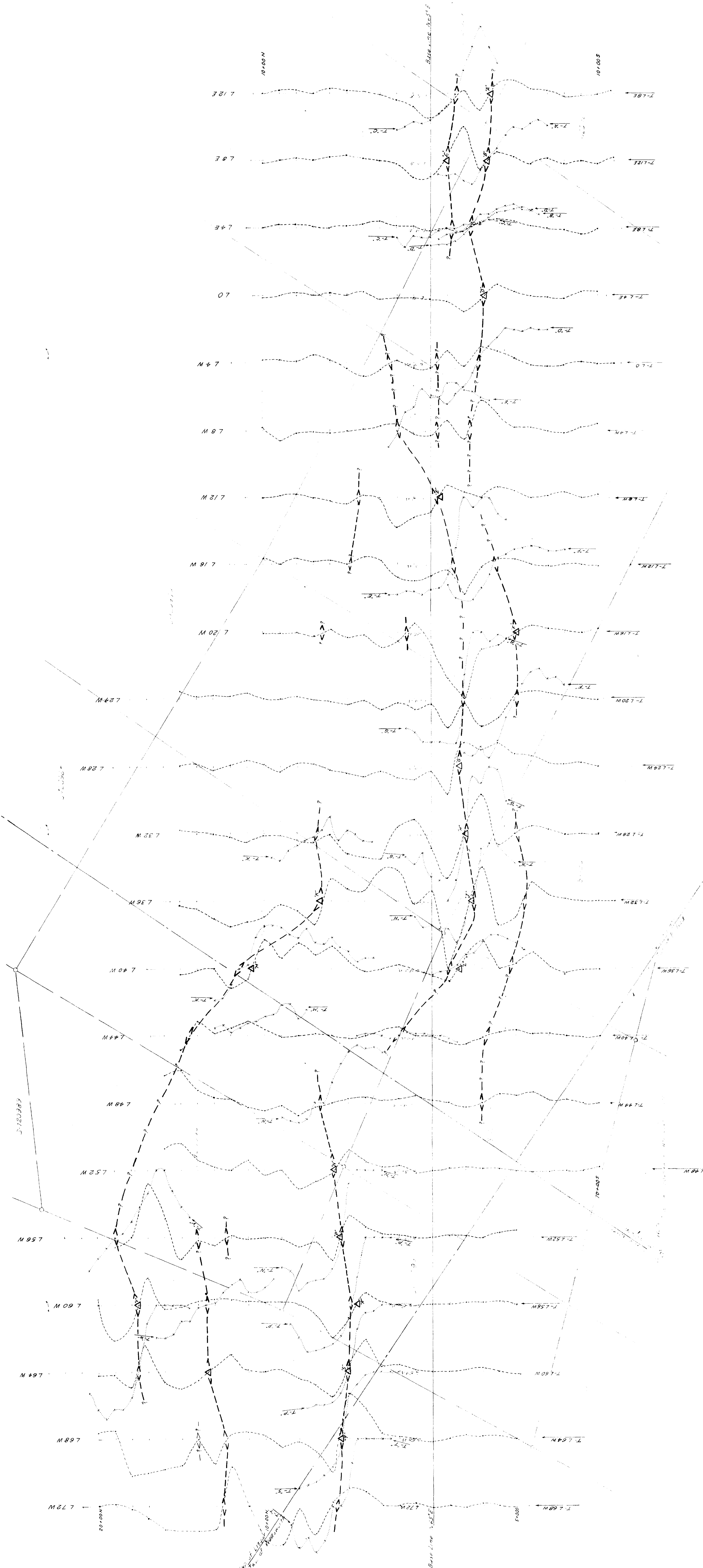
VERTICAL LOOP
ELECTROMAGNETIC SURVEY

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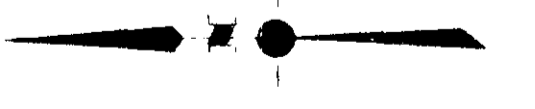
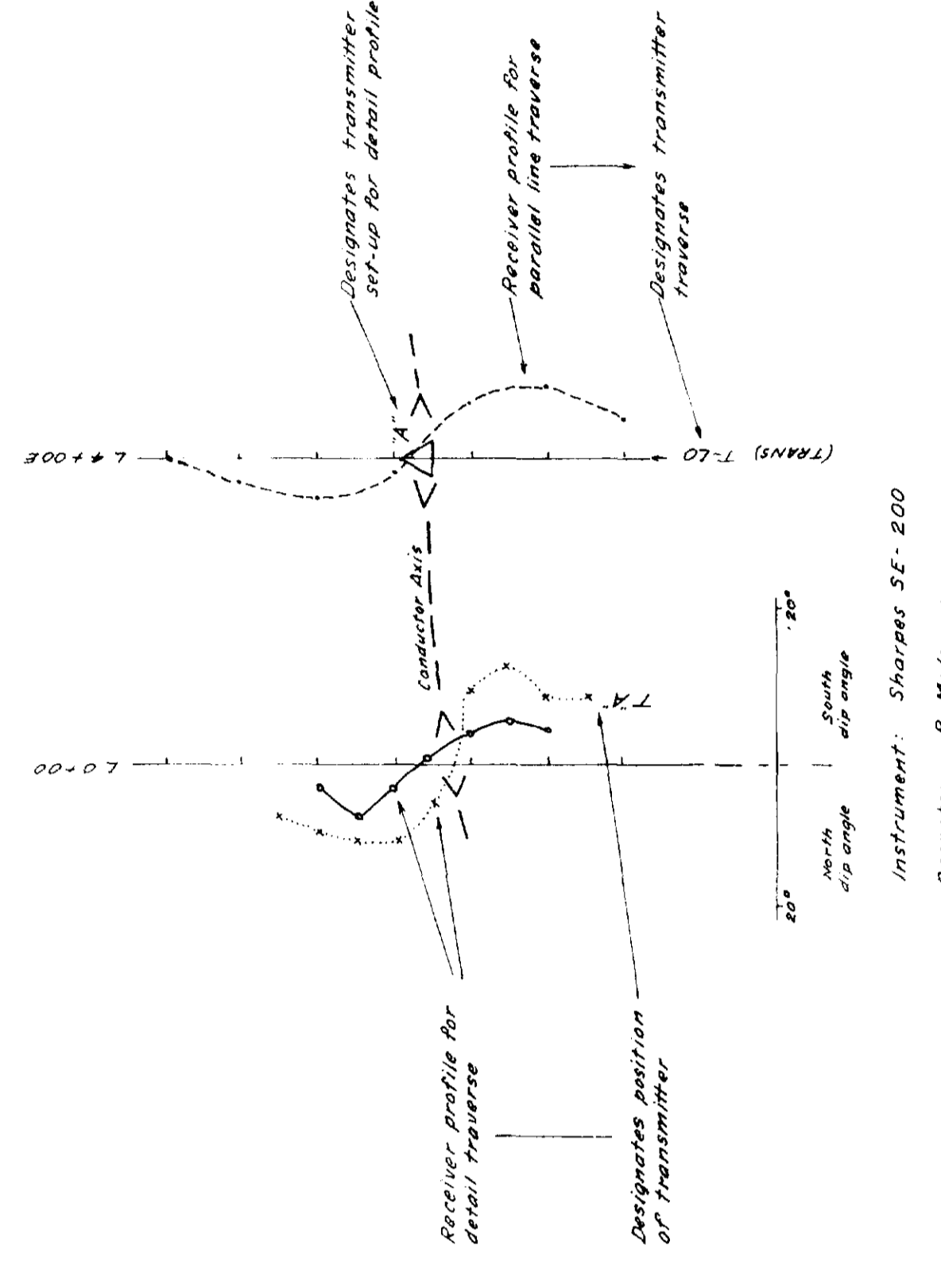
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DATE OF PLAN: MAY 11, 1950
DRAWN BY: B. M. H. & S. W. J. W. DEPT. 1964
DWG. 2884



LEGEND



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