

GEOPHYSICAL REPORT ON THE PAT NO. 1 TO NO. 10 CLAIMS

RECORD NUMBERS 89191 TO 89200

LOCATED AT

61° 20½' N. LAT.

128° 16' W. LONG.

MINERAL CLAIM SHEET NO. 105-H-8

WATSON LAKE MINING DIVISION - YUKON TERRITORY

JUNE 1ST TO JUNE 22ND, 1966

BY

J.W. STOLLERY, P. ENG.

SEPTEMBER 30TH, 1966.

This report has been examined by
the Geological Evaluation Unit.
Approved as to technical worth by:

P. C. Findlay
RESIDENT GEOLOGIST

Approved as to cost in the amount
of: \$ 2000.00

A. F. Hedden
RESIDENT MINING ENGINEER

Accepted as representation work
under Section 53(4) Yukon Quartz
Mining Act.

Administrative
GOVERNMENT

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" 20 - " " - " "	

GEOPHYSICAL REPORT ON THE PAT NO. 1 TO NO. 10 CLAIMS

LOCATED AT 61° 20½' N. LAT., 128° 16' W. LONG.

History and Introduction

The Pat Group was staked as a result of the discovery of mineralized float on the Cantung Road in 1965. Although of low grade (Cu .30 and Zn .57) the possibility of finding a large quantity of this material in place initiated a magnetometer survey (pyrrhotite in the float) which was conducted during the period of June 1st to June 22nd, 1966.

The geophysical investigation of the Pat Claim Group was carried out by the following employees of Norquest Joint Venture, 320 - 355 Burrard Street, Vancouver 1, B.C.:-

R.B. Neil	- Surveyor	- 1761 Howard Ave., Burnaby 2, B.C.
Robert Pronovost	- Asst. Surveyor	- 10209 - 108 Ave., Grande Prairie, Alta.
G.H. Brandt	- Geophysical Technician	- 710 Blue Mountain, Burquitlam, B.C.
Bernard Kromhout	- Field Assistant	- Box 106, Creston, B.C.
W.K. Midan	- Field Assistant	- 20916 River Rd., Haney, B.C.
Frank Skelton	- Prospector	- C/o Bralorne Pioneer Mines Limited, 320-355 Burrard St., Vancouver 1, B.C.
J.W. Stollery	- Field Supervisor Certificate enclosed.	- 1275 Haro St., Vancouver, B.C.

Work Done

1. Geophysics

64,000 line feet of detailed magnetic observations were taken at 25 ft. intervals on lines 400 ft. apart.

2. Survey Control

- (a) 7,200 ft. of base line was surveyed using transit and steel chain. Cross lines were turned off at 400 ft. intervals along the base line.
- (b) 64,000 ft. of cross line with stations at 200 ft. intervals was laid out using compass and tape.
- (c) All claim lines were surveyed by transit.

Property

<u>Claim Name</u>	<u>Record No.</u>	<u>Record Date</u>	<u>Owner</u>
Pat No. 1 - 8	89191 to 89198	June 23, 1965.	T.P. Duquette (Power of Attorney to Bralorne).
Pat No. 9 - 10	89199 and 89200	June 23, 1965.	J.C. Turner (Power of Attorney to Bralorne).

Geophysics

Method

Detailed magnetic readings were taken at 25 ft. intervals on grid lines 400 ft. apart. Where anomalies of sufficient interest were found fill in lines at 200 ft. intervals were used to detail magnitude and continuity. (See Figure 1).

Geophysics
(c'td.)

Method. (c'td.)

Adjacent pairs of traverse lines were "looped" together and corrected internally for diurnal variation. Individual loops were not tied together but it is estimated that a relative profile reliability of 50 gammas was maintained.

Magnetic readings were taken with a Sharpe MF-1R fluxgate magnetometer. Measurements of the vertical component of the total field were made to the nearest 10 gammas.

Sample calculation for a traverse loop assuming that time intervals between readings are approximately constant.

<u>Station</u>	<u>Reading</u>	<u>Diurnal Correction</u>	<u>Result</u>
Base	610	-50	560
1	640	-50	590
2	600	-40	560
3	580	-40	540
4	590	-30	560
5	610	-30	580
6	630	-20	610
7	600	-20	580
8	590	-10	580
9	580	-10	570
10	580	0	580
Base	560	0	560

Base at Start	610	12 Readings.
Base at Point	<u>560</u>	10 Gamma accuracy.
	<u>- 50 Gammas to be distributed.</u>	

Results

The results are shown on Figures 2 to 20 (magnetic profiles) with the relative locations of the most interesting disturbances shown on the Key Plan (Figure 1).

Geophysics
(c'td.)

Results. (c'td.)

The magnetic profiles show a series of irregular disturbances ranging up to 3000 gammas total relief suggesting a number of lens like sources aligned in a north-south direction.

Conclusions

1. It is reasonable to assume that the magnetic disturbances are a result of sulphide masses composed primarily of pyrrhotite similar to the float discovered in the area of the Cantung Road.
2. The one outcrop of rusty schist (Figure 1) has the appearance of other similar formations to the west of the property which have produced magnetic anomalies proven to be economically insignificant.
3. The economic potential as indicated by the assay results coupled with the probable lensy formation does not justify further work at this time.

Recommendation

Enough work has been done on the property to hold the claims for a period of two years. (June 23rd, 1968).

No further work is recommended at this time.

Respectfully submitted,



J.W. Stollery, P.Eng.,
Project Manager,
NORQUEST JOINT VENTURE.

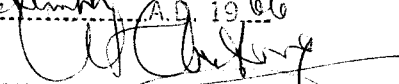
Vancouver, B.C.
September 30th, 1966.

APENDIX 'A'

Statement of Expenditures

1.	<u>Wages</u>					
	Magnetometer Operator	$\frac{10}{30}$	x 425	=	\$	141.66
	Field Assistant	$\frac{10}{30}$	x 350	=		116.66
	Surveyor	$\frac{16}{30}$	x 425	=		226.65
	Assistant Surveyor	$\frac{16}{30}$	x 400	=		213.32
	Field Assistant	$\frac{16}{30}$	x 375	=		199.98
	Prospector	$\frac{8}{30}$	x 500	=		133.33
2.	<u>Services</u>					
	Cook	$\frac{16}{30}$	x 450	=	\$	239.85
	Field Supervision	$\frac{7}{30}$	x 1000	=		233.33
	Instrument Rental Transit	$\frac{6}{30}$	x 50	=		10.00
	Magnetometer	$\frac{10}{30}$	x 220	=		73.33
	Printing & Stenographer			=		16.00
	Truck Transportation	16 days @ \$6.60/hr 1 hr/day.		=		105.60
3.	<u>Supplies</u>					
	Food	99 man days @ \$4.25		=		420.75
						<hr/>
						\$ 2,130.46
						<hr/> <hr/>

This is Exhibit "A" referred to in the
declaration of John W. S. Gallery
deposed before me this 30th day
of September, A.D. 1966


A Commissioner for Ship Appointments for British Columbia

APPENDIX 'B'

Assessment Work

\$2,000.00 is to be applied on the Pat Group (10 Claims) for a period of two (2) years' assessment work.

Canada

Province of British Columbia

To Wit:

In the Matter of

a Statement of Expenditures regarding exploration of the Pat Mineral Claims

I, JOHN W. STOLLERY, of 320 - 355 BURRARD ST., CITY OF VANCOUVER in the Province of British Columbia.

Do Solemnly Declare that

- 1. The attached Statement of Expenditures regarding exploration of the Pat No. 1 to No. 10 Mineral Claims is true.
2. I was employed as Project Manager by Norquest Joint Venture, 320 - 355 Burrard Street, Vancouver, B.C. and supervised the exploration work to which the expenditures apply.
3. The aforesaid Statement of Expenditures is herewith annexed and marked Exhibit 'A' to this, my statutory declaration.

And I make this solemn Declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath, and by virtue of the Canada Evidence Act.

Declared before me

at Vancouver in the Province of British Columbia.

this 30th day of September A.D. 19 66.

[Handwritten signature]

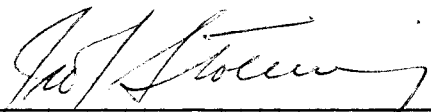
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APPENDIX 'D'

WRITER'S CERTIFICATE

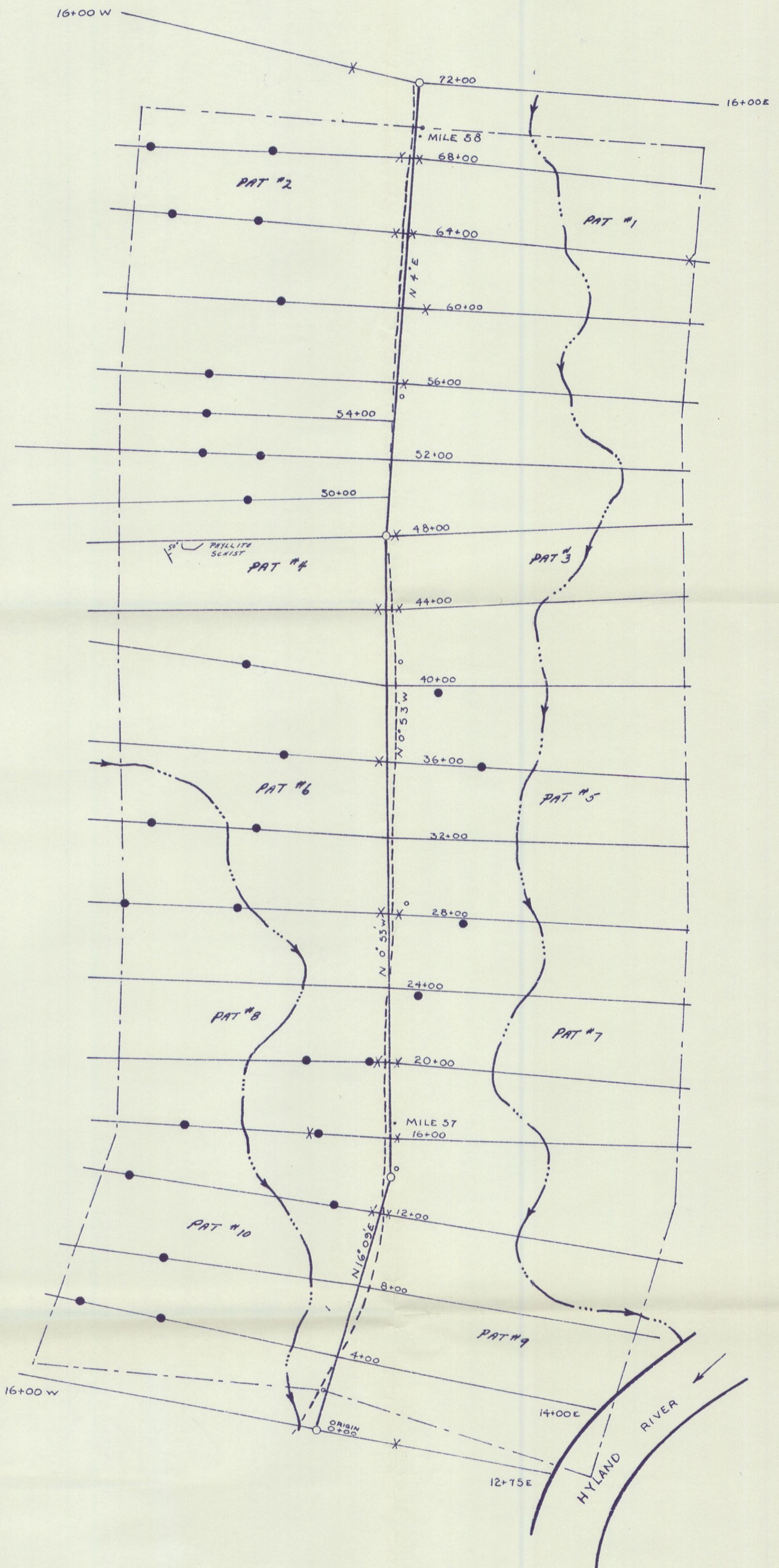
I, John W. Stollery, of Vancouver, B.C., hereby certify that:

1. I am a Geological Engineer residing at 1275 Haro Street, Vancouver, B.C.
2. I graduated from the Provincial Institute of Mining, Haileybury, Ontario, in 1958 and received a B.Sc. Degree from Michigan Technological University, Houghton, Michigan, U.S.A. in 1961.
3. I am a registered member of the Association of Professional Engineers of Ontario and Quebec. (B.C. pending).
4. During the period of April to the present time I am being retained by Bralorne Pioneer Mines Limited as Project Manager of the Norquest Joint Venture exploration project in the Yukon Territory.
5. I have compiled this report and the field work described herein was carried out under my supervision.

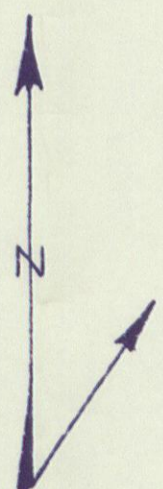


(John W. Stollery, P.Eng.)

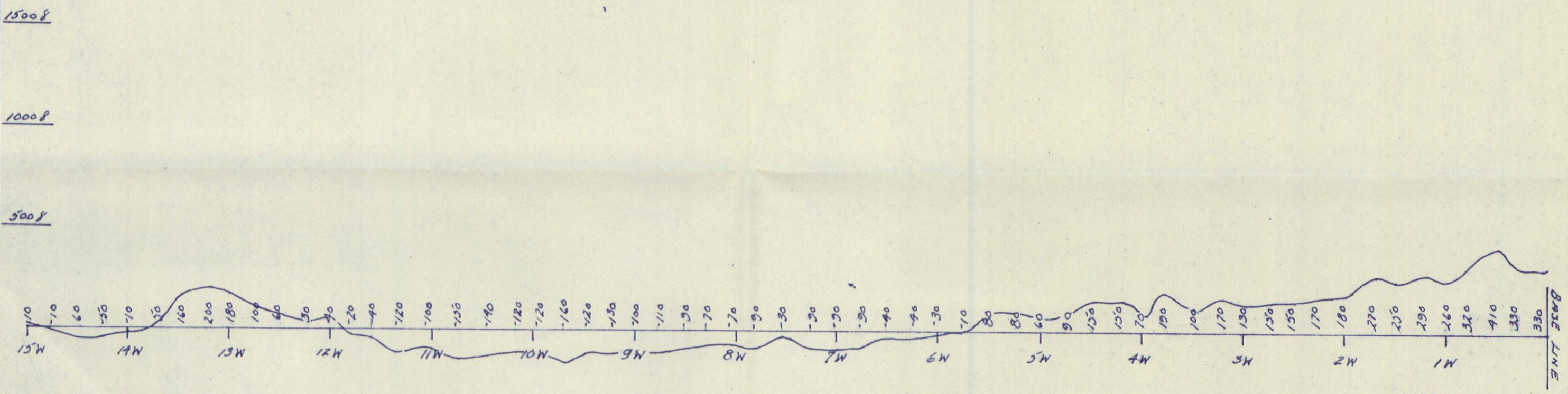
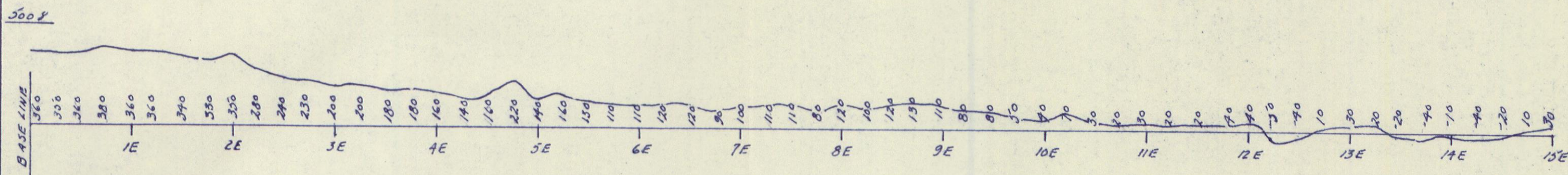
Vancouver, B.C.
September 30th, 1966.



NORQUEST JOINT VENTURE.
 PAT CLAIM GROUP
 JUNE 19, 1966
 DRAWN BY ROGER NEILL
 SCALE 1IN. = 400 FEET



LEGEND	
●	MAGNETIC DISTURBANCE (REFER TO PROFILES FOR MAGNITUDE AND WIDTH)
---	CANTUNG ROAD
~	STREAM
●	MILE POST
X	MINERALIZED FLOAT
o	CLAIM POSTS
---	CLAIM BOUNDARY



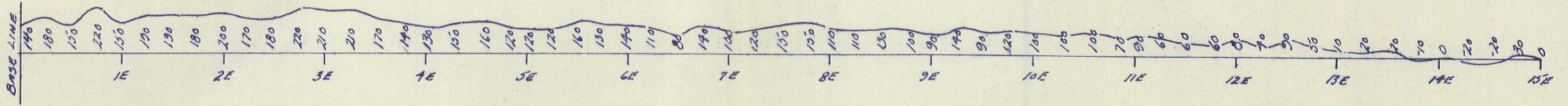
LINE 72100 N

SCALES - HOR. 1" = 100'
 VERT. 1" = 500 γ

NORQUEST JOINT VENTURE
 PAT CLAIM GROUP
 MAGNETOMETER PROFILES
 JUNE 1966

FIG 2

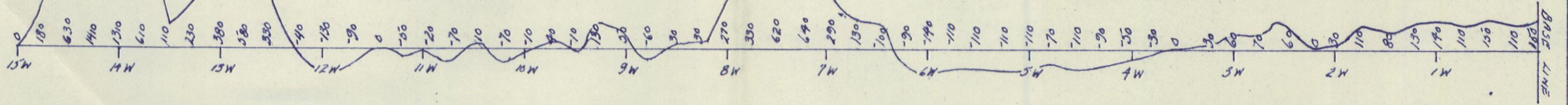
5008



15008

10008

5008



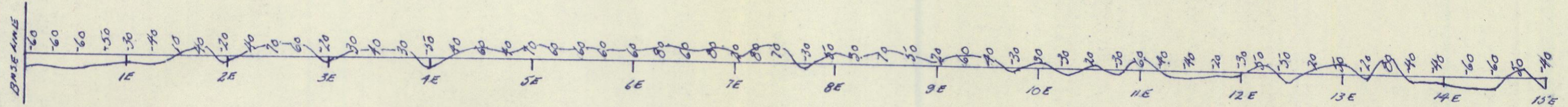
LINE 68100N

FIG 3

SCALES - HOR 1" = 100'
VERT 1" = 5008

NORQUEST JOINT VENTURE
PAT CLAIM GROUP
MAGNETOMETER PROFILES
JUNE 1966

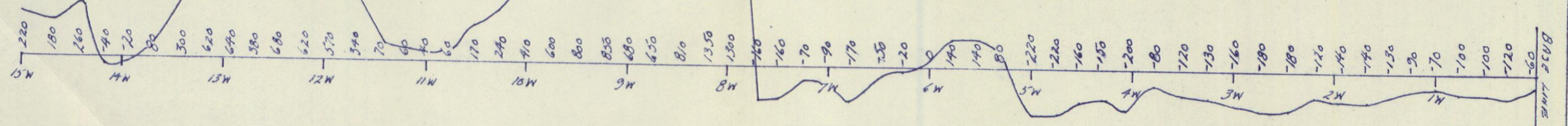
500f



1500f

1000f

500f



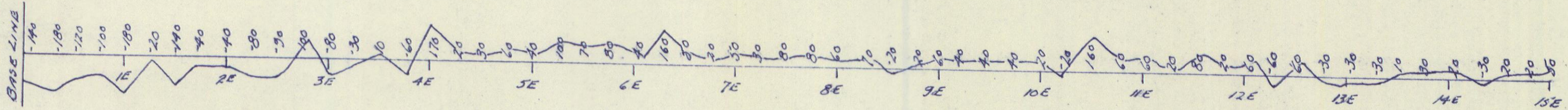
LINE 64 100N

SCALES - HOR 1" = 100'
VERT 1" = 500f

FIG 4

NORQUEST JOINT VENTURE
PAT CLAIM GROUP
MAGNETOMETER PROFILES
JUNE 1966

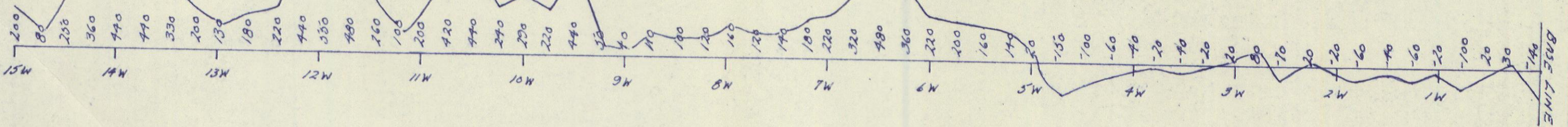
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1500g

1000g

500g



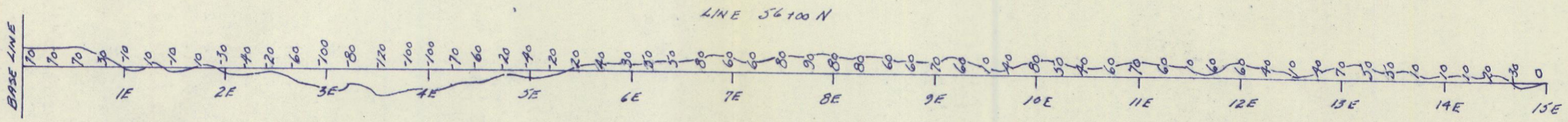
LINE 60+00 N

SCALES - HOR 1" = 100'
VERT 1" = 500g

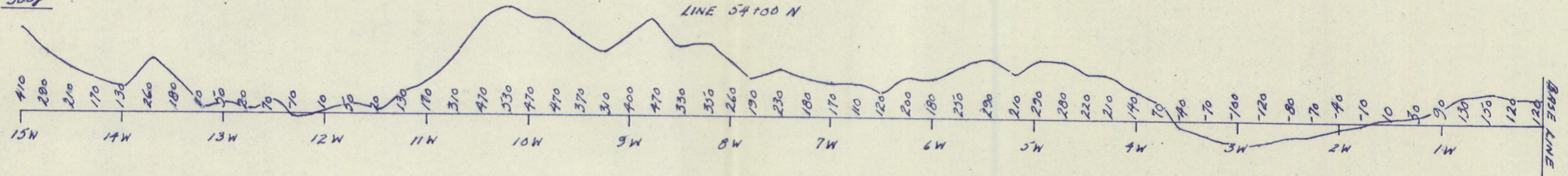
NORQUEST JOINT VENTURE
PAT CLAIM GROUP
MAGNETOMETER PROFILES
JUNE 1966

FIG 5

5008

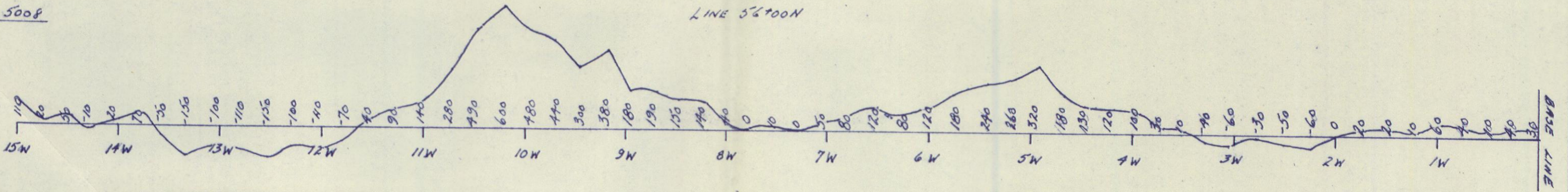


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10008

5008



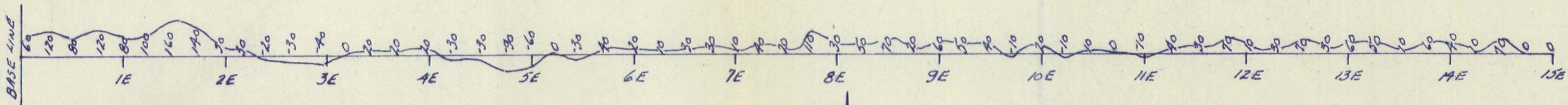
LINE 56100 N EAST & WEST
 LINE 54100 N WEST

SCALES - HOR 1" = 100'
 VERT 1" = 5008

F146

NORQUEST JOINT VENTURE
 PAT CLAIM GROUP
 MAGNETOMETER PROFILES
 JUNE 1966

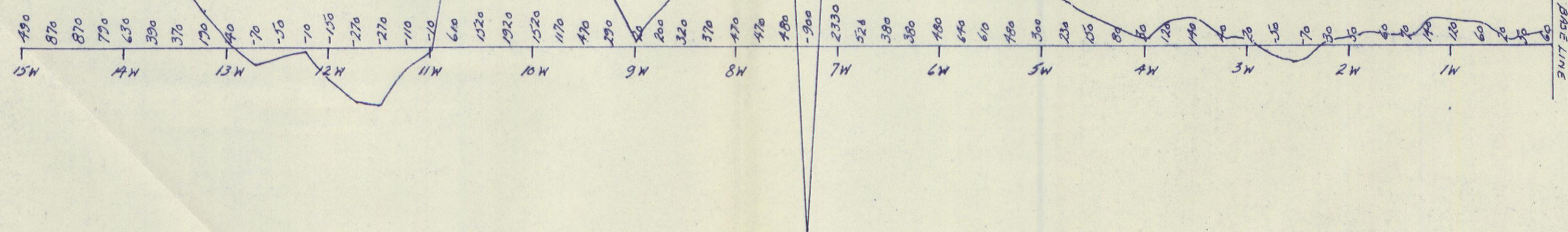
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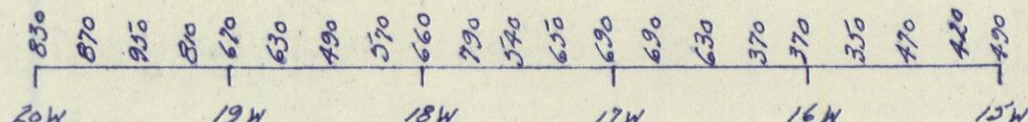
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5908



10008

5008

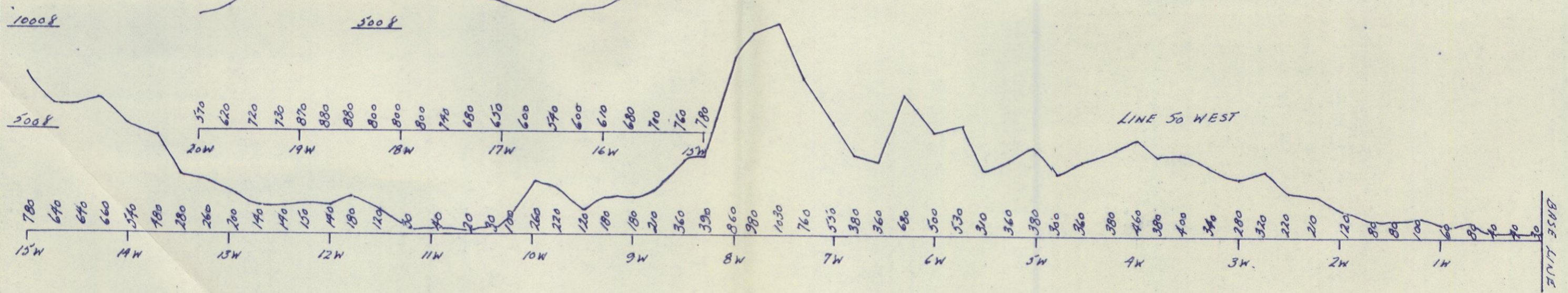
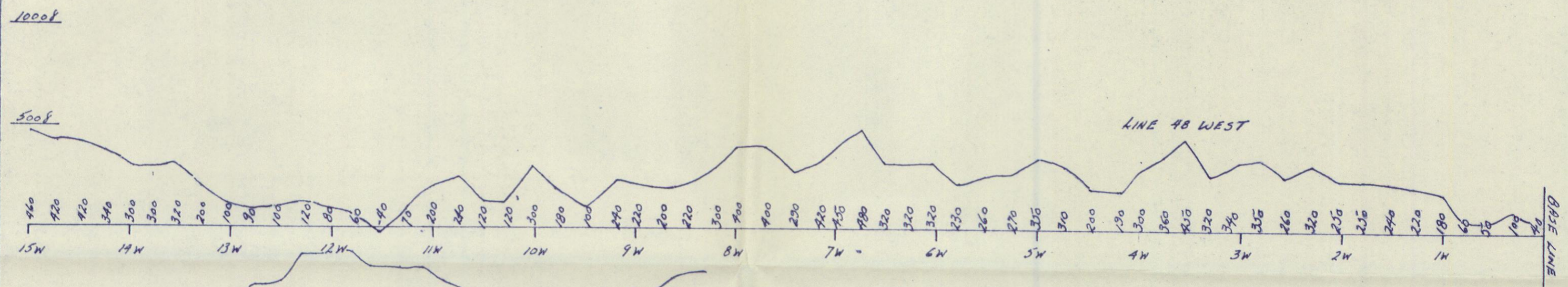
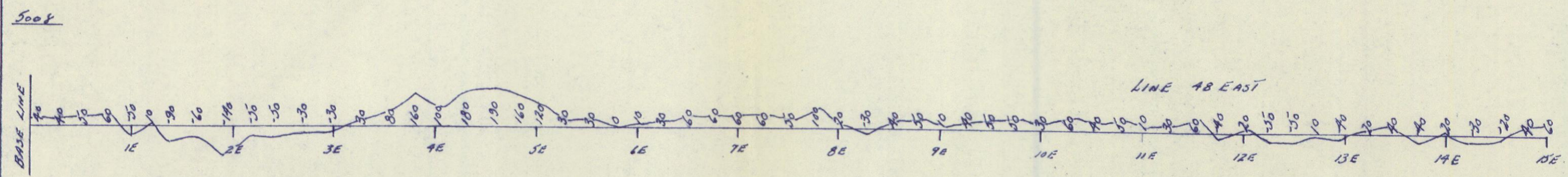


LINE 52100 N

SCALES - Hor 1" = 100'
VERT 1" = 5008

NORQUEST JOINT VENTURE
PAT CLAIM GROUP
MAGNETOMETER PROFILES
JUNE 1966

FIG 7



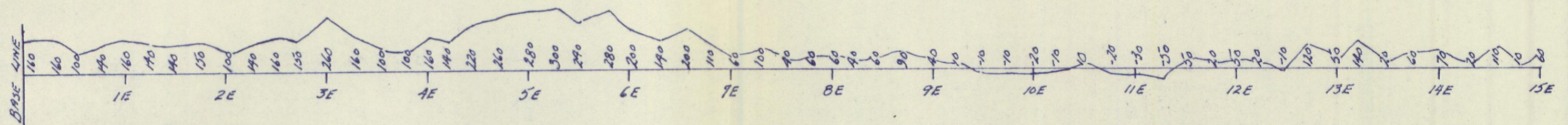
LINE 48 EAST & WEST
 LINE 50 WEST

SCALES - HOR 1" = 100'
 VERT 1" = 500 f

FIG 8

NORQUEST JOINT VENTURE
 PAT CLAIM GROUP
 MAGNETOMETER PROFILES
 JUNE 1966

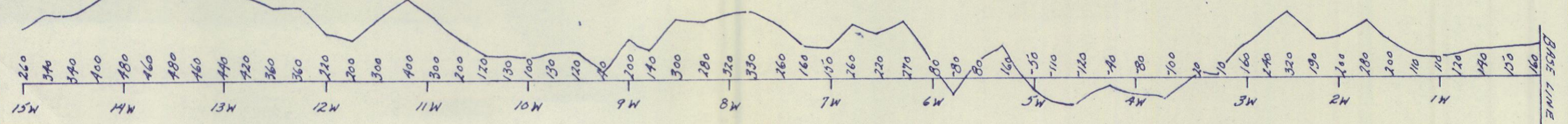
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1500f

1000f

500f



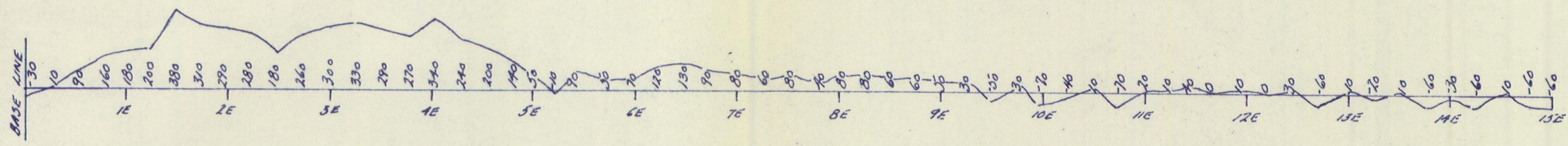
LINE 44100N

FIG 9

SCALES - HOR. 1" = 100'
VERT. 1" = 500f

NORQUEST JOINT VENTURE
PAT CLAIM GROUP
MAGNETOMETER PROFILES
JUNE 1966

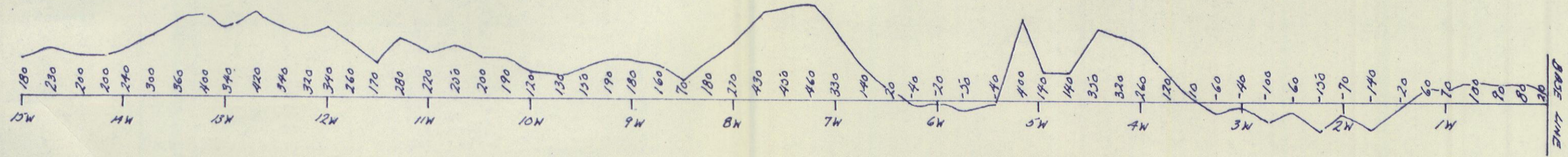
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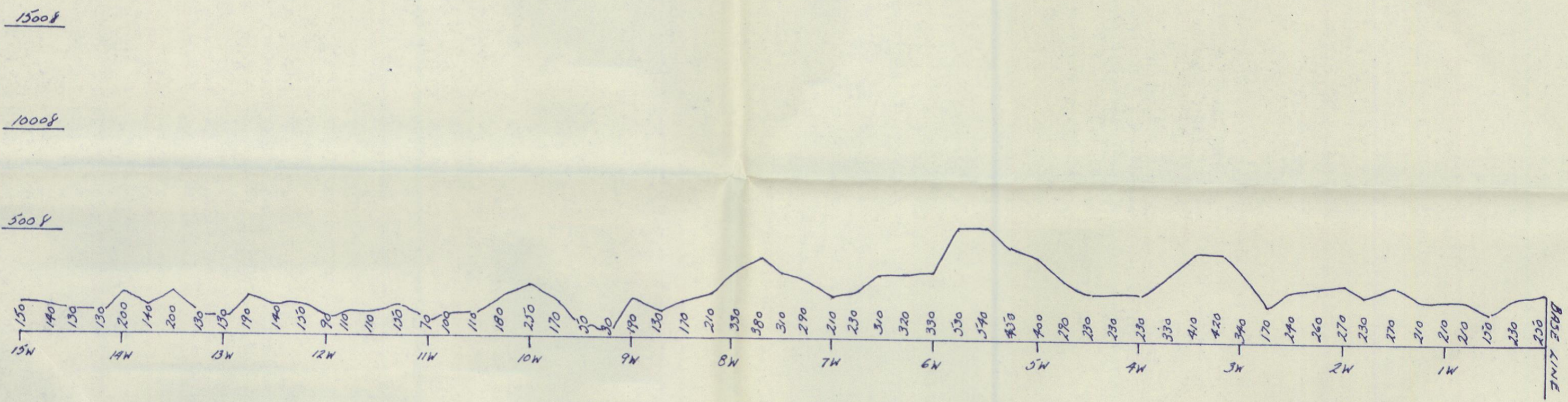
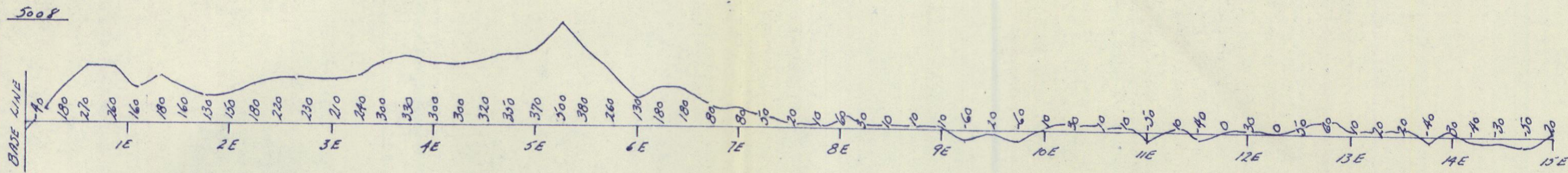


LINE 40+00 N

SCALES - HOR 1" = 100'
VERT 1" = 5008

FIG 10

NORQUEST JOINT VENTURE
PAT CLAIM GROUP
MAGNETOMETER PROFILES
JUNE 1966



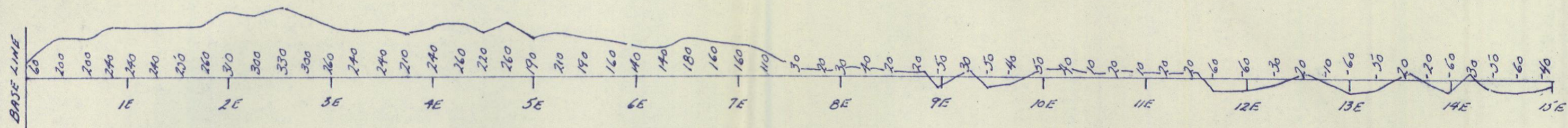
LINE 36+00N

SCALES - HOR 1" = 100'
 VERT 1" = 5008

FIG 11

NORQUEST JOINT VENTURE
 PAT CLAIM GROUP
 MAGNETOMETER PROFILES
 JUNE 1966

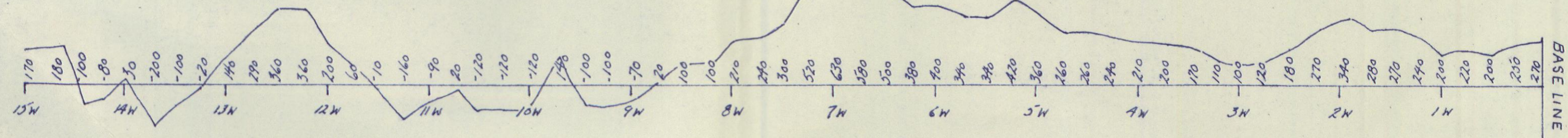
500g



1500g

1000g

500g

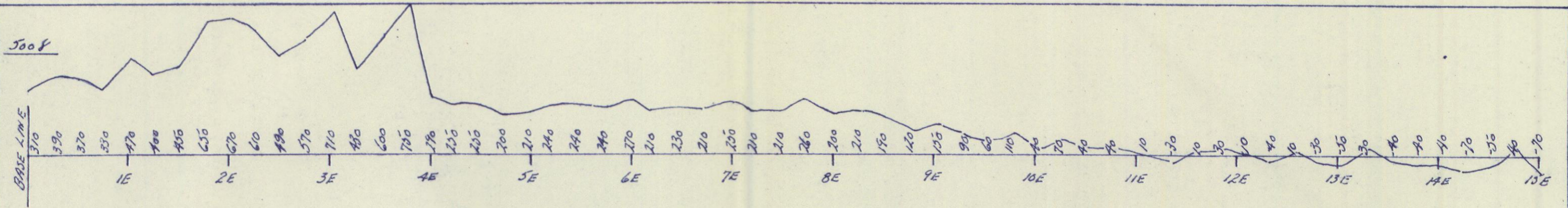


LINE 32100 N

FIG 12

SCALES - HOR 1" = 100'
VERT 1" = 500g

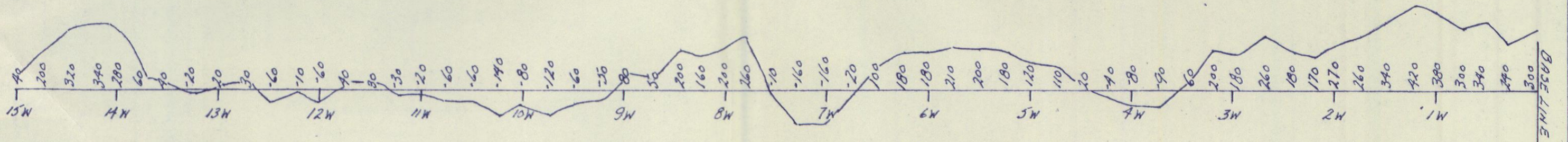
NORQUEST JOINT VENTURE
PAT CLAIM GROUP
MAGNETOMETER PROFILES
JUNE 1966



15008

10008

5008

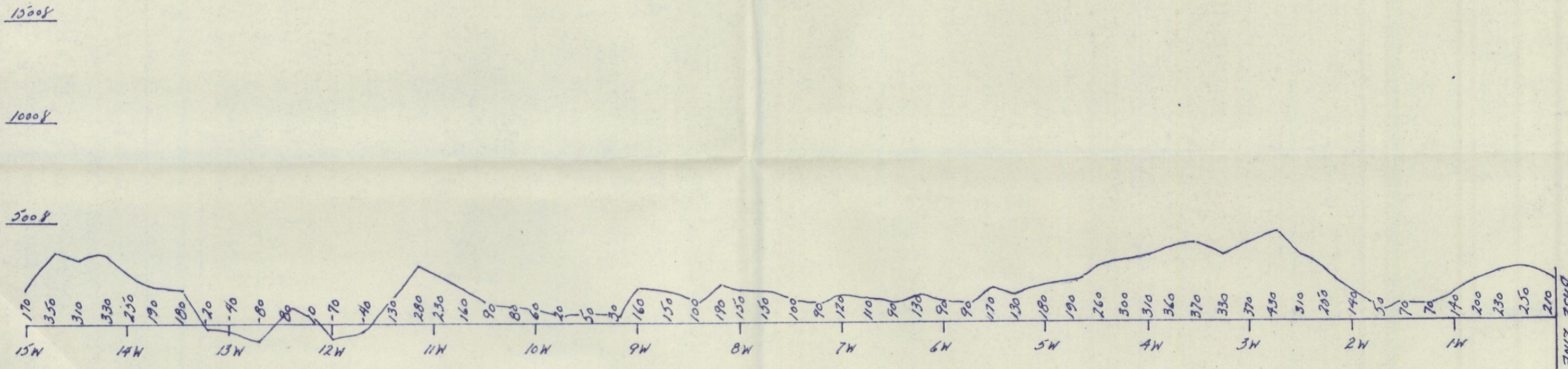
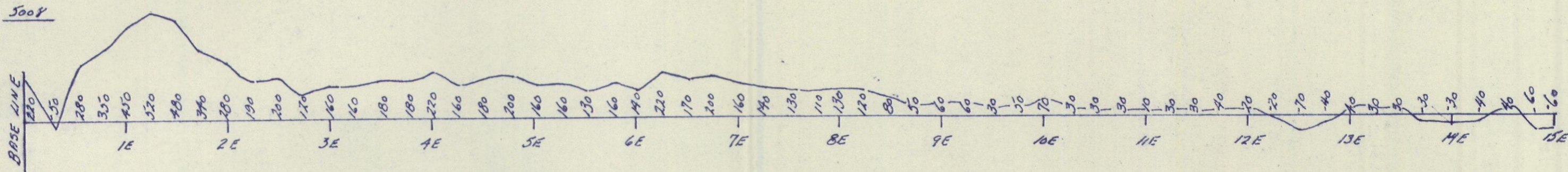


LINE 28+00N

F14 13

SCALES - HOR 1" = 100'
VERT 1" = 500'

NORQUEST JOINT VENTURE
PAT CLAIM GROUP
MAGNETOMETER PROFILES
JUNE 1966



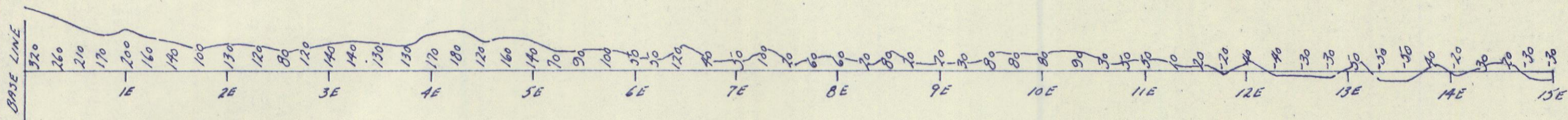
LINE 24+00N

FIG 14

SCALES - HOR 1" = 100'
 VERT 1" = 500g

NORQUEST JOINT VENTURE
 PAT CLAIM GROUP.
 MAGNETOMETER PROFILES
 JUNE 1966

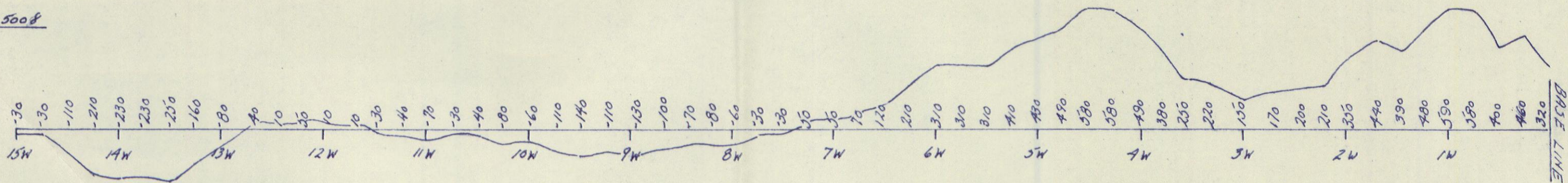
5008



15008

10008

5008

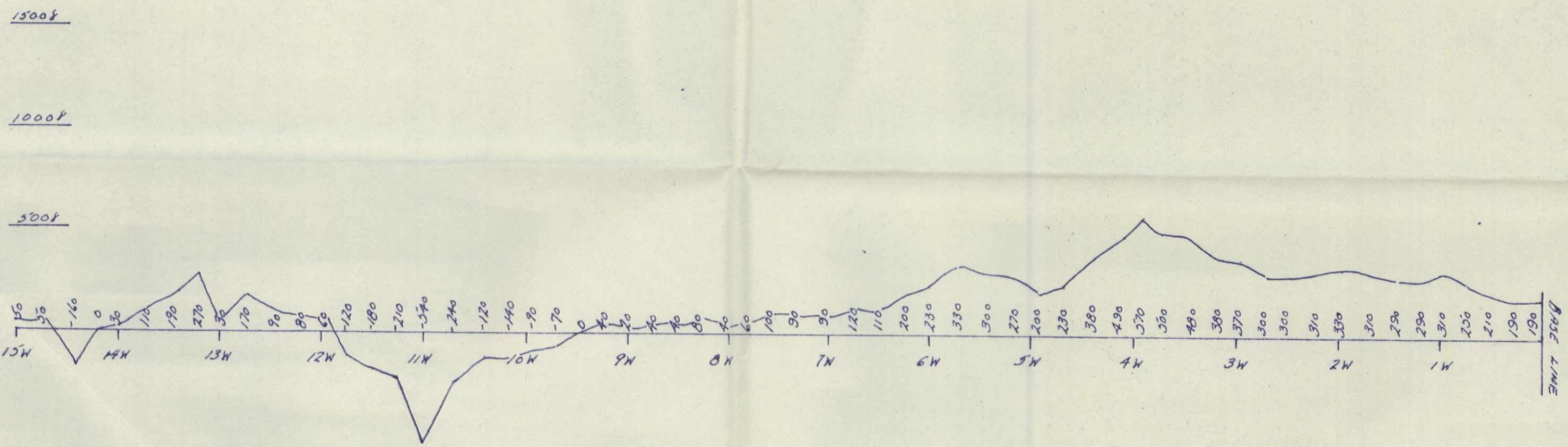
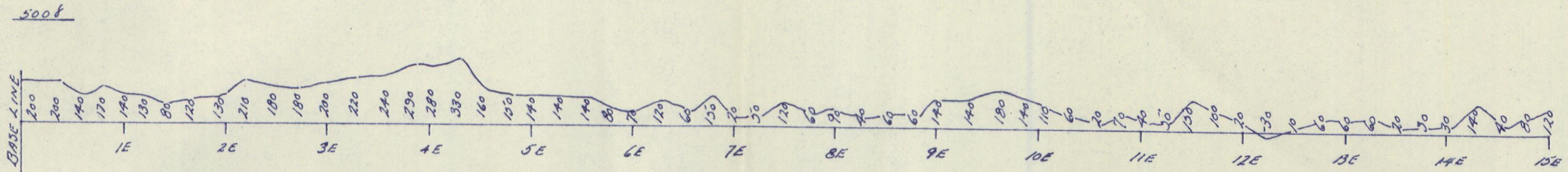


LINE 20100 N

FIG 15

SCALES - HOR. 1" = 100'
VERT. 1" = 5008

NORQUEST JOINT VENTURE
PAT CLAIM GROUP
MAGNETOMETER PROFILES
JUNE 1966



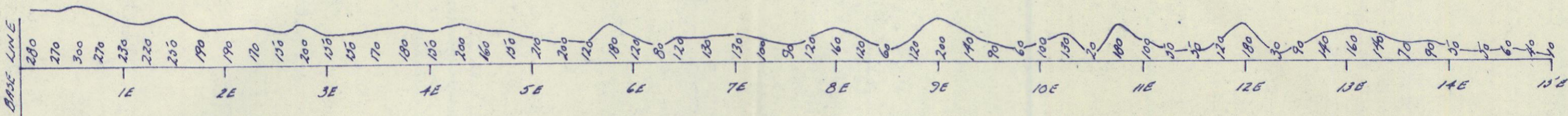
LINE 16+00 N

FIG 16

SCALES - HOR. 1" = 100'
 VERT. 1" = 500 f

NORQUEST JOINT VENTURE
 PAT CLAIM GROUP
 MAGNETOMETER PROFILES
 JUNE 1966

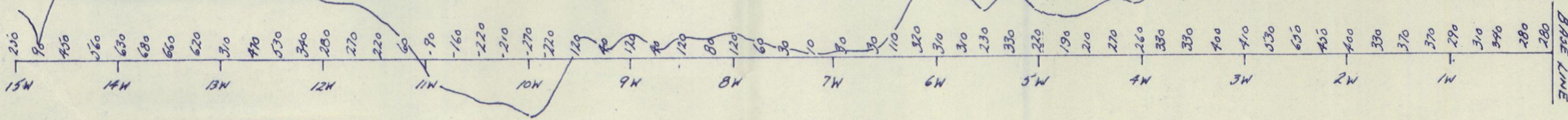
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15008

10008

5008

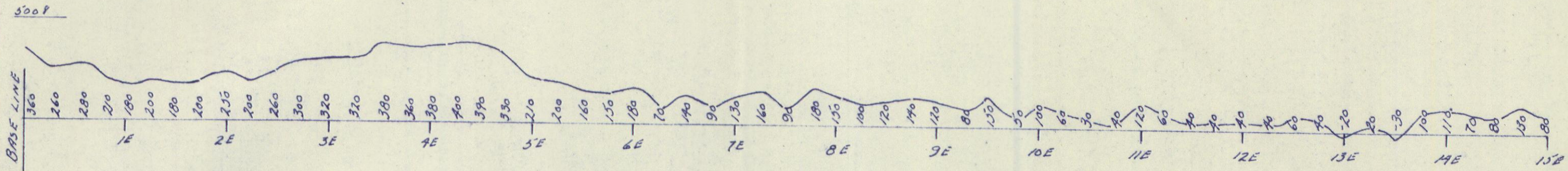


LINE 12+00N

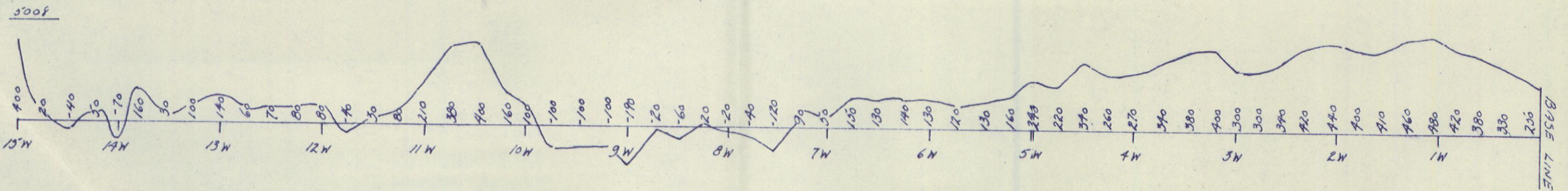
SCALES - HOR. 1" = 100'
VER. 1" = 5008

NORQUEST JOINT VENTURE
PAT CLAIM GROUP
MAGNETOMETER PROFILES
JUNE 1966

FIG 17



10008

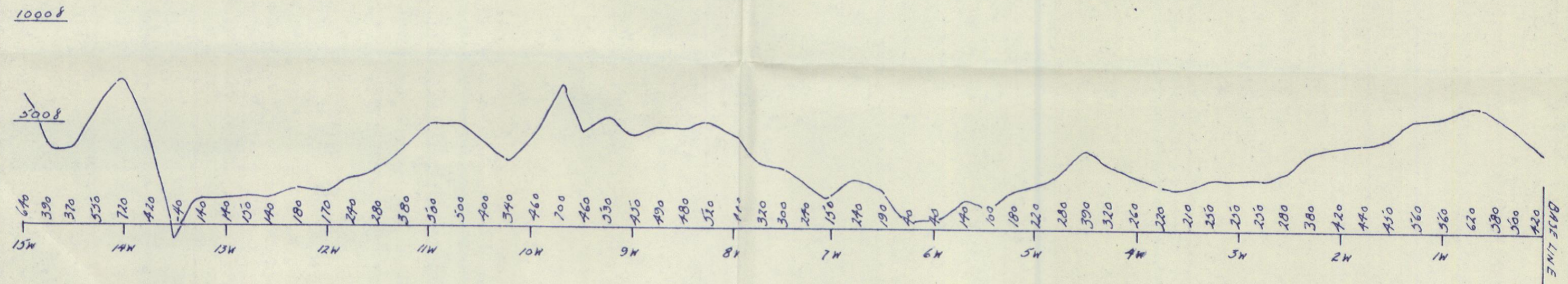
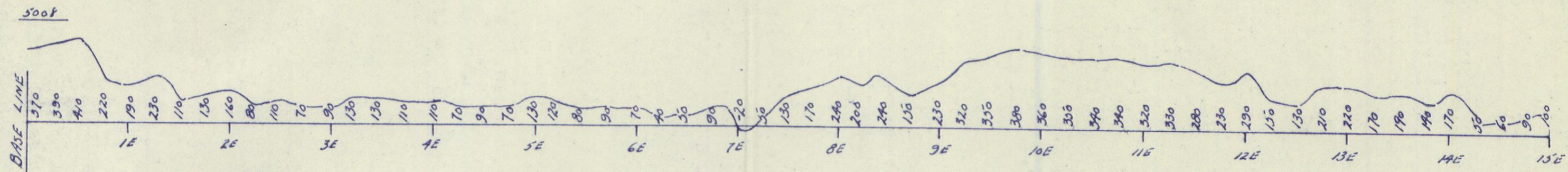


LINE 8+00 N

FIG 18

SCALES - HOR. 1" = 100'
VERT. 1" = 5008

NORQUEST JOINT VENTURE
PAT CLAIM GROUP
MAGNETOMETER PROFILES
JUNE 1966

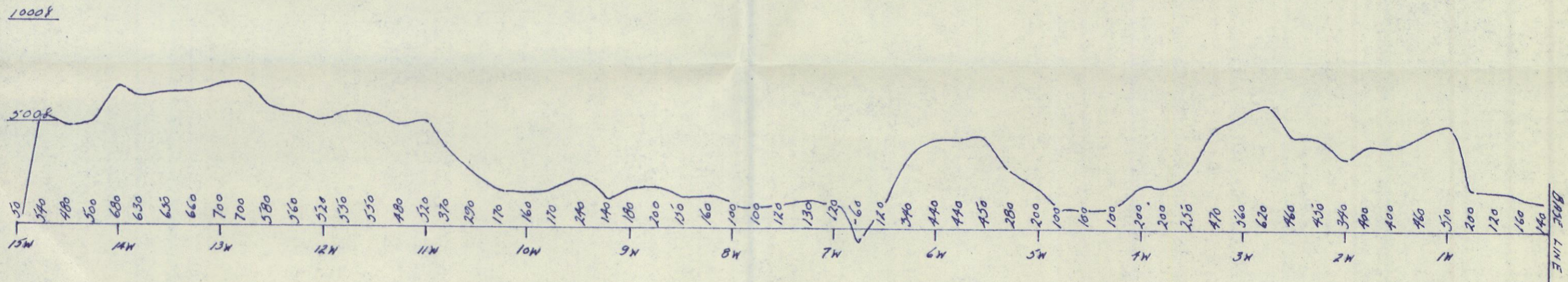
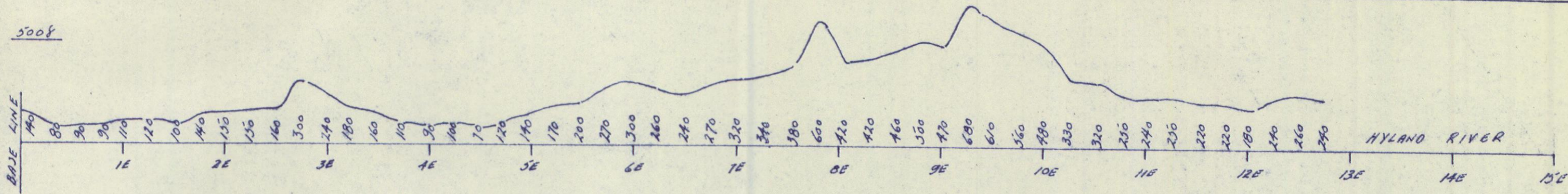


LINE 400N

FIG 19

SCALES - HOR. 1" = 100'
VERT. 1" = 5008

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LINE 0100 N

FIG 20

SCALES - HOR. 1" = 100'
VERT. 1" = 5008

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