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115 N 15 PROSPECTUS
CONFIDENTIAL X
OPEN FILE

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TYPE OF WORK: Geology, Geophysics, Geochem.

REPORT FILED UNDER: Esso Minerals Canada Ltd

DATE PERFORMED: Sept 1-7, 1988

DATE FILED: November 29, 1988

LOCATION: LAT.: 63° 59' N

AREA: Sixtymile River

LONG.: 140° 32' W

VALUE \$: 6800.00

CLAIM NAME & NO.: SIXTYMILE 1-51 YA 88238-YA 88288

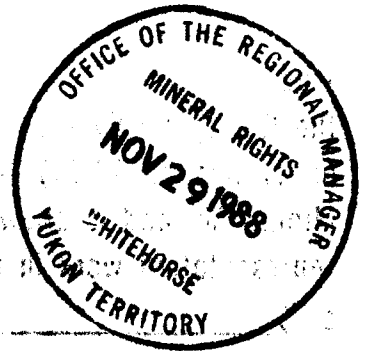
WORK DONE BY: J. Lowey

WORK DONE FOR: Esso Minerals Canada Ltd

DATE TO GOOD STANDING: REMARKS: #116 SIXTYMILE

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1988 EXPLORATION PROGRAM
GROUND MAGNETIC SURVEY, GEOLOGICAL
AND GEOCHEMICAL REPORT

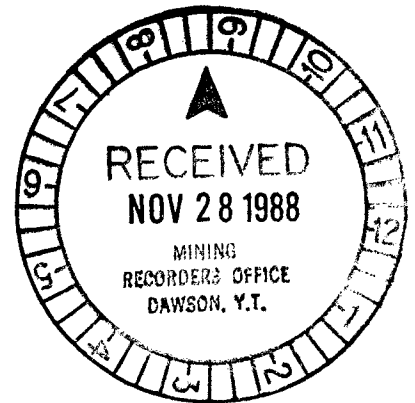


ON THE
SIXTY MILE QUARTZ CLAIMS, DELIA PROSPECT
YUKON TERRITORY

092677

NTS: 115N/15
Latitude: 63° 59'N
Longitude: 140° 32'N

By:
Jennifer Lowey
Zbigniew Doborzynski



For:
Esso Minerals Canada, A Division of
ESSO RESOURCES CANADA LIMITED
1600 - 409 Granville Street
Vancouver, B.C. V6C 1T2

November 1988

Distribution

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This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount

of \$ 6899.00.

J. J. Semer
Regional Manager, Exploration and
Geological Services for Commissioner,
of Yukon Territory.

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RECOMMENDATIONS

The Sixty Mile 35-51 Claims should be further explored. The recommended target is an epithermal-style silicified stockwork within Tertiary andesite. The following work is recommended:

- 300 - 500m of diamond drilling. Drill holes should be at low angles (45°) perpendicular to the baseline in areas of altered andesite with anomalous gold values. Holes should be drilled to the west.

No further work is recommended for the Sixty Mile 1 - 34 Claims. Surface geology and the magnetic survey indicate that the western claim block has low potential for significant mineralization.

1.0 INTRODUCTION

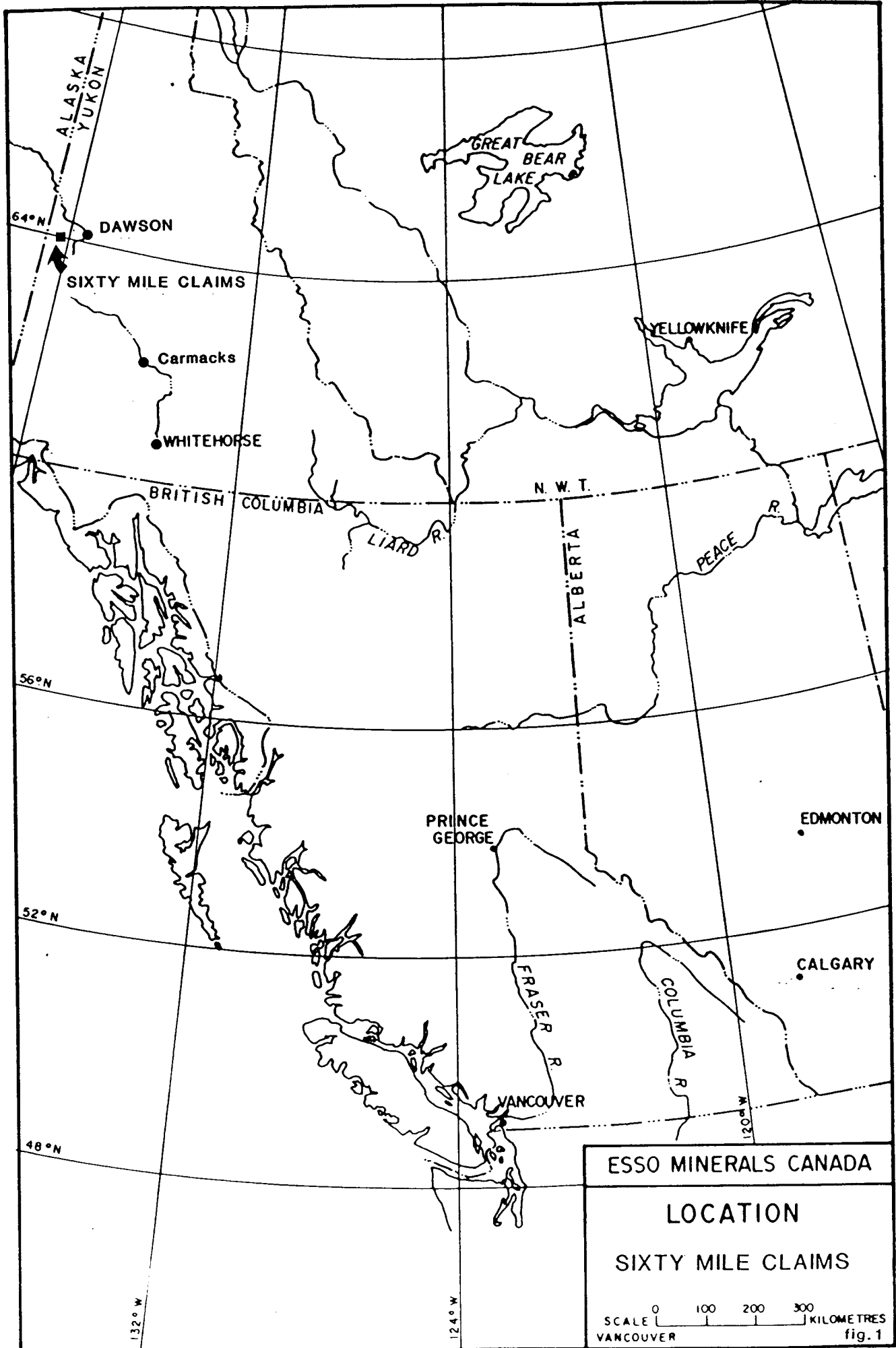
The Sixty Mile Property consists of two separate claim blocks, comprising 51 claims, situated in the Sixty Mile River valley, 65 km west of Dawson City, Yukon. The claims are owned by Esso Minerals Canada. An exploration program conducted by Esso Minerals Canada in 1987 consisted of geological mapping and rock sampling. In 1988, a 23 km flagged grid was established and an EDA Omni IV magnetometer survey was conducted. Additional geologic mapping and lithochemical sampling were completed in 1988 placer pits and two soil profiles were sampled. The target is a high level epithermal gold deposit.

2.0 LOCATION AND ACCESS

The Sixty Mile claims are located in the Sixty Mile River valley, Yukon near latitude 63° 59'N, longitude 140° 31'W (NTS 115N/15). Access to the claims is via a good seasonal road along Big Gold from Kilometre 85 on the "Top of the World Highway".

3.0 CLAIM STATUS

The Sixty Mile Quartz claims (Map 1, in pocket) are owned by Esso Minerals Canada, a division of Esso Resources Canada Limited. The Sixty Mile claims are located as two separate claim blocks, a southwesterly block comprising 34 full size two-post claims and a northeasterly block consisting of 13 full size claims and three claim fractions. The two claim blocks are separated by 1.8 km (see Appendix A for the list of claims and status).



4.0 REGIONAL GEOLOGY

The Sixty Mile River area is located within the Yukon cataclastic terrain. Most of the area is underlain by Nasina Series rocks of Paleozoic and Precambrian age (Map 1, in pocket). An erosional remnant of rocks correlative with Tertiary Mountain Nansen Group is centered near the confluence of Big Gold Creek and Sixty Mile River.

The Paleozoic and Precambrian metamorphic rocks consist of chert and metachert, massive dark graphitic-quartzite and quartz-mica-schist, black and orange foliated chlorite-muscovite-quartz-schist, and strongly foliated to gneissic muscovite-chlorite-biotite granodiorite.

The Carmacks Group rocks consist of brown, green and red andesite, basalt and flow breccia with interdigitated sedimentary rocks.

One outcrop of Quaternary alkaline-olivine basalt has been mapped in the area (Glasmacher, 1985).

Extensive quaternary alluvium covers much of the Sixty Mile River valley.

5.0 HISTORY AND PREVIOUS WORK

The Sixty Mile River valley and several tributaries have been subject to placer mining activities dating back to 1892 when C. Miller discovered placer gold in Miller Creek.

Recent work by Glasmacher (1985) concluded that, "the primary mineralization in the Sixty Mile River area consists of northeast - southeast striking vein-type mineralization which traverses the metamorphic basement and the Tertiary volcanics, and of a hot spring-type epithermal mineralization within Tertiary calc-alkali volcanics which underlie the area around the mouth of Big Gold Creek".

The Sixty Mile claims were staked by Esso Minerals Canada on the basis of Glasmacher's observations and the discovery of pyritic and altered volcanics on the Wendy-Delia claims at the confluence of Miller Creek and Sixty Mile River. Property work done in 1987 consisted of geologic mapping of placer pits and lithogeochemical sampling; gold values of up to 460 ppb occur in brecciated and pyritic clay-altered andesite.

6.0 1988 FIELD ACTIVITIES

An exploration program to evaluate the precious metal potential of the Sixty Mile claims was conducted from September 1 to September 7, 1988. Flagged grids were established on both claim blocks utilizing the claim lines as base lines. Grid and 1988 sample locations are detailed in Maps 2 and 3 (in pocket). An EDA Omni IV magnetometer survey was conducted along both grids. The work was performed by Aurum Geological Consultants under the supervision of Esso Minerals Canada geologist, Jennifer Lowey. Additional geologic mapping and lithogeochemical sampling were completed in the eastern claim block. Esso Minerals Canada geophysicist, Zig Doborzynski interpreted the magnetic survey data.

7.0 1988 GEOLOGIC FIELDWORK

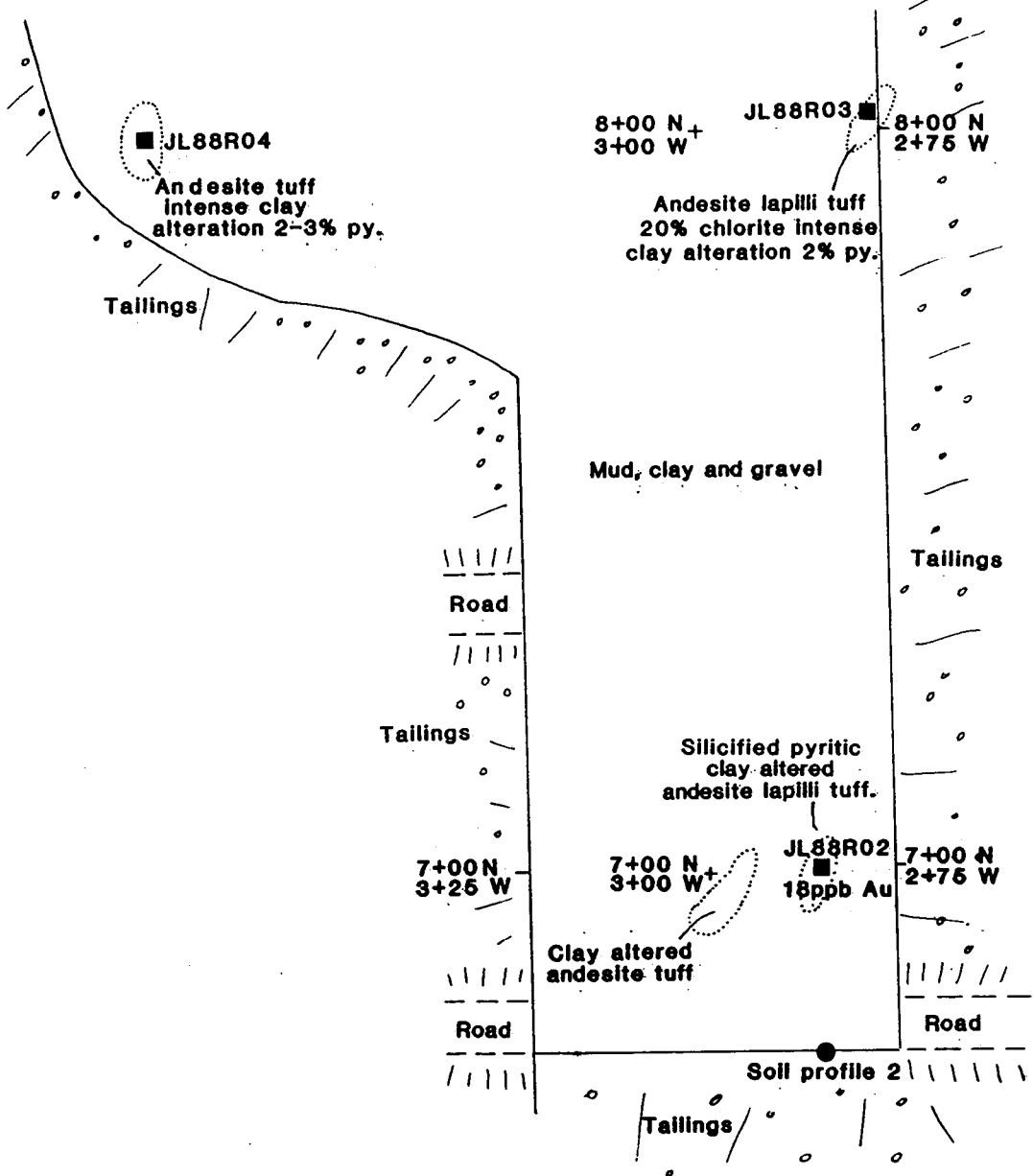
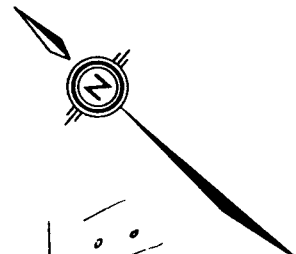
7.1 Property Geology

The Sixty Mile claims lie within the Sixty Mile River valley and are coincident with active placer mining operations. The western portion of both claim blocks is overlain by alluvial deposits of sand and gravel which vary in thickness from 1 to 40m. The eastern portion is predominantly muskeg. Traverses were conducted along both grids in search of rock exposures.

Eastern Claim Block

Bedrock is exposed in the bottom of the placer pits. The Middle Pit within Sixty Mile Claim 37 was mapped and sampled (Figure 2). Placer pits in the eastern claim block, Sixty Mile 35-51, are underlain by andesite, andesite lapilli tuff and tuff breccia of the Carmacks Group. This unit is typically clay-altered, highly chloritized, may be silicified or contain anastomizing quartz microveinlets and 2 - 7% disseminated and fracture-controlled pyrite in the area of the placer pits. Soil profiles were taken 2m up section from bedrock at 20cm sample intervals in the Haner and Middle Pit. The profiles were a reconnaissance survey to determine whether multi-element geochemistry could discriminate between placer gold and hydrothermal mineralization and alteration.

Amygdaloidal andesite and chert pebble conglomerate of the Carmacks Group is exposed along a ridge within Sixty Mile Claim 40. Andesite is unaltered.



- Soil profile
- Lithochemical sample
- Outcrop.

ESSO MINERALS CANADA

**SIXTY MILE CLAIMS
EAST GRID
GEOLOGY AND SAMPLE LOCATIONS
MIDDLE PIT**

Scale: 1:1000

To accompany a report by J. Lowey

Project No. 403	Report No.
Mining Div. Dawson	NTS: 115N/15
Survey By: JFL	Drafted By: MJD
Date: Nov 1988	Map No. Fig.2

Western Claim Block

Rock exposures in the western claim block, Sixty Mile 1-34, are limited to placer pits. The claims are underlain by Nasina Quartzite and quartz mica schist. There is no evidence of hydrothermal alteration.

7.2 Lithogeochemical Sampling

Rock sampling was conducted to determine the precious metal potential of the Sixty Mile Property. Samples are described in Table 1 and located on Figure 2 and Map 2. Geochemical analysis was performed by Acme Analytical Laboratories in Vancouver and consisted of 30 element ICP analysis and gold analysis by atomic absorption. Analytical procedures and results are listed in Table 2.

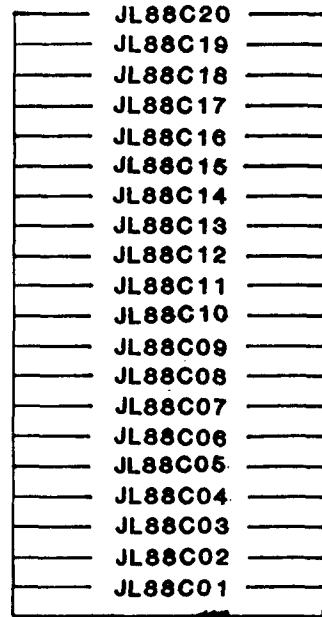
Altered rock samples collected from the Haner and Middle Pit yielded low values for base and precious metals. Gold ranges from 1 to 20 ppb; silver ranges from 0.1 to 0.9 ppm.

Sample JL88R02 yielded geochemically anomalous gold values of 16 to 20 ppb. Elevated gold values in the Middle Pit and Hokanson Pit (Melynk, 1988) suggest that pyritic and clay-altered andesites may represent the periphery of an epithermal system.

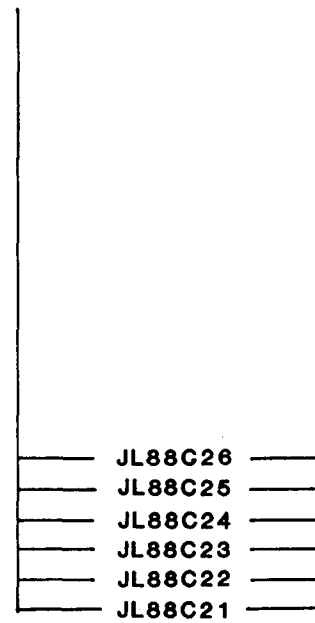
7.3 Soil Sampling

Soil profiles were sampled in the Haner and Middle Pit. Samples were taken at 20cm intervals from bedrock at the base of the placer pits. Soil consists of gravel, coarse sand and alluvial silt and clay.

SOIL PROFILE #1



SOIL PROFILE #2



Alluvial gravel,
sand, silt and clay

BEDROCK

SCALE 1:100

FIGURE 3: stratigraphic position of soil samples in profiles 1&2

Analytical procedures and results are summarized in Table 2. The stratigraphic position of soil samples with respect to bedrock in profiles 1 and 2 is illustrated in Figure 3. Elevated values for gold were obtained from samples JL88C08, JL88C16 and JL88C23. The absence of an associated base metal enrichment suggests that anomalous gold values in soils are associated with placer mineralization.

8.0 MAGNETOMETER SURVEY

Twenty three line kilometres of magnetometer surveying was carried out on two grids (East and West, Fig. 1) on the Sixty Mile Claim group. The purpose of this work was to provide information on structure in areas where the potential for epithermal gold deposits is favorable.

8.1 Equipment

The survey was carried out by Aurum Geological Consultants Inc. with an EDA Omni IV proton precession magnetometer. This is a digital acquisition unit which stores measured values in electronic memory for subsequent transfer to a computer for further processing.

Variations of the earth's magnetic field were recorded by a base-station magnetometer. At the end of each survey day the data from both magnetometers were merged to remove changes in the earth's field from the survey data. The corrected field profiles are presented in Appendix C.

In this survey, measurements were taken at 12.5m stations along flagged and chained lines.

The results are presented on two map sheets for each grid at a scale 1:2500. The first map lists the values recorded along survey lines after a background value of 57500 nT has been removed. The second map sheet is the contour presentation. The data for the East grid is contoured at intervals of 100nT while that from the West grid uses a contour interval of 10nT because of the much smaller values recorded on this latter grid.

8.2 Results

East Grid

The survey (Map 5) has located two separate magnetic features. The first extends from line 800N and 400N, between 100E and 300E. This feature consists of a dominant magnetic source centered on line 700N at 130E with ancillary features further to the south. The main magnetic zone has a strike length of about 200m and as shown by modelling (Fig. 4), its estimated depth is 18m.

The second feature consists of two magnetic highs in the northern portion of the grid. Only one of these has been completely outlined. It is located between lines 1100N and 1300N at 200E. Modelling (Fig. 5) indicates that the source is about 200m in strike-length and 28m below surface. Its estimated susceptibility (.000429 emu) suggests that it may be diabase.

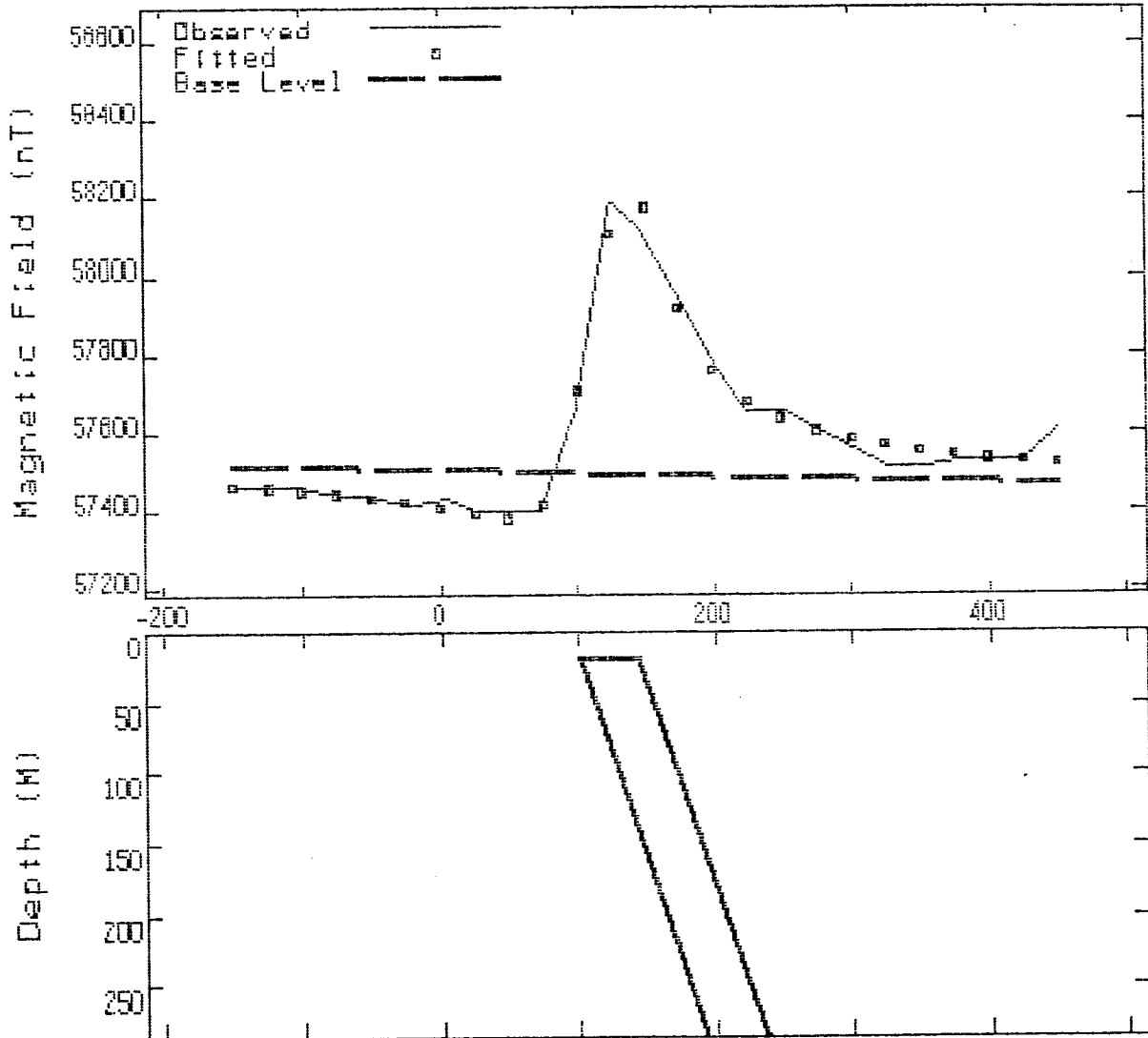
West Grid

Magnetic responses are much weaker than on the East grid (Map 6). There are no distinctive trends. The broad area of magnetic lows in the center of the grid, between lines 600N and 1100N, correlates with the meandering path of the Sixty Mile River. These lows are probably due to old infilled channels cut by the river in bedrock.

Conclusions

The magnetic survey has outlined two magnetic features on the East grid. Modelling suggests that these are caused by mafic rocks buried about 20m below surface.

ESSO MINERALS CANADA
 SIXTY MILE EAST GRID - LINE 700N



MODEL PARAMETERS:

Model Type TABULAR
 Depth L 18.2 M
 Half Width L 22.2 M
 Dip F 109 deg
 Susceptibility F 0.00468 emu
 Position F 123.4388 M
 Base Level F 57494.82 nT
 Base Slope F -0.0857127 nT/M

(F-fitted, X-fixed, L-limit)

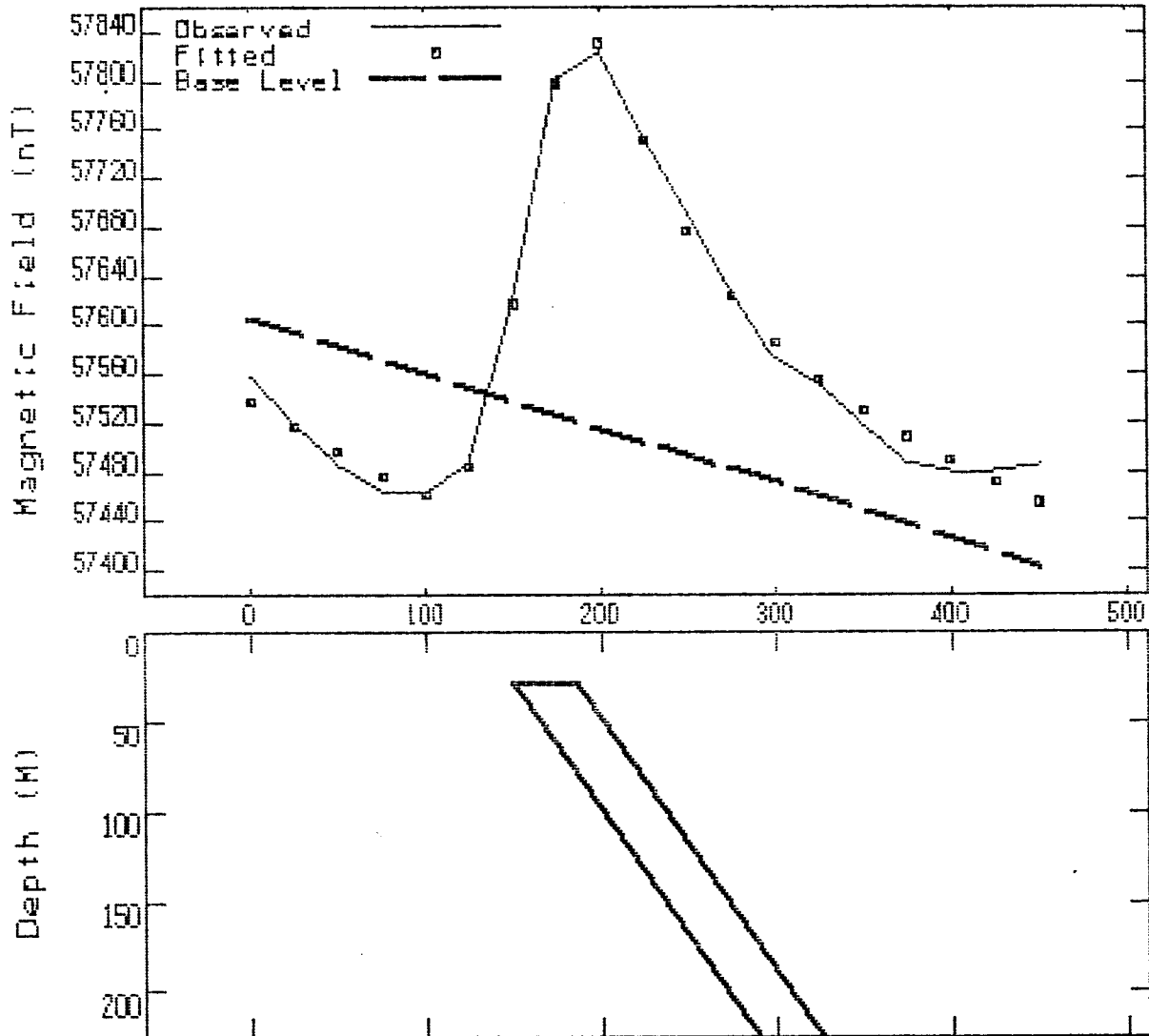
GEOMAGNETIC FIELD:

Field Strength 50000 nT
 Inclination 78 deg
 Declination 30 deg

PLAN DIRECTIONS:

Strike Perp 0 deg
 Line Direction 142 deg

ESSO MINERALS CANADA
 SIXTY MILE GRID - LINE 1200N



MODEL PARAMETERS:

Model Type TABULAR
 Depth F 28.5 M
 Half Width F 18.9 M
 Dip F 126 deg
 Susceptibility F 0.00429 emu
 Position F 167.5342 M
 Base Level F 57529.34 nT
 Base Slope F - .4493448 nT/M

(F-fitted, X-fixed, L-limit)

GEOMAGNETIC FIELD:

Field Strength 50000 nT
 Inclination 78 deg
 Declination 30 deg

PLAN DIRECTIONS:

Strike Perp 0 deg
 Line Direction 142 deg

Results on the West West grid show little variation except for an area of magnetic lows. These correlate with the flood plain about the Sixty Mile River and are caused by channels cut in the bedrock by the river and subsequently infilled with sediment and rubble.

9.0 SUMMARY AND CONCLUSIONS

- Ground magnetic surveys failed to delineate any magnetic-low trends which might correspond to argillic alteration zones.
- Bedrock exposure is restricted to placer pits with the exception of one area of outcrop on the east grid.
- Overburden prohibits the use of soil geochemical techniques on the property.
- Pyrite and clay alteration occur in separate placer pits over a length of one kilometre parallel to the trend of the river. Altered andesites yield geochemically anomalous gold values.
- Trenching would be costly and ineffective due to the depth of overburden and proximity of mineralized areas to the river.
- A short exploratory drill program is the best way to evaluate the epithermal potential of the Sixty Mile Claims 35-51.

10.0 STATEMENT OF COSTS - SIXTY MILE CLAIMS 1-34

Contractor Fees

Aurum Geological Consultants	
Grid, magnetometer survey	
Field camp and logistics	\$3,568.00

Salaries

Geologist: 7 days @ \$250/day	\$1,750.00
Geophysicist: 1/2 day @ \$333/day	166.50
Supervision, RMB: 1/2 day @ \$404/day	<u>202.00</u>
	\$2,118.50

Meals and Accommodation \$ 66.20

Transportation

Air Fare	\$ 85.00
Freight	<u>141.66</u>
	\$ 226.66

Supplies \$ 43.00

Office and Report Preparation

Drafting: 4 hrs @ \$20/hr	\$ 80.00
Computer Services: 1/2 day @ \$198/day	99.00
Secretarial & Reproduction: 1/2 day @ \$100	<u>50.00</u>
	\$ 229.00

TOTAL \$6,251.36

11.0 STATEMENT OF COSTS - SIXTY MILE CLAIMS 35-51

Contractor Fees

Aurum Geological Consultants
Grid and magnetometer survey
Field camp and logistics \$3,958.00

Salaries

Geologist: 7 days @ \$250/day \$1,750.00
Geophysicist: 1/2 day @ \$333/day 166.50
Supervision, RMB: 1/2 day @ \$404/day 202.00
\$2,118.50

Meals and Accommodation \$ 66.20

Transportation

Air Fare \$ 85.00
Freight 141.66
\$ 226.66

Supplies \$ 43.00

Petrographic Sections

Vancouver Petrographics \$ 120.00

Assays

Acme Analytical Labs \$ 530.60

Office and Report Preparation

Draftsman: 4 hrs @ \$20/hr \$ 80.00
Computer Services: 1/2 day @ \$198/day 99.00
Secretarial & Reproduction: 1/2 day @ \$100 50.00
\$ 229.00

TOTAL \$7,291.46

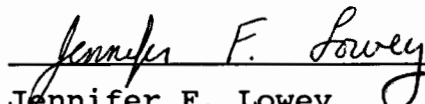
12.0 STATEMENTS OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Jennifer Fortune Lowey, of 403 - 1330 Bute Street in the City of Vancouver, in the province of British Columbia, DO HEREBY CERTIFY THAT:

1. I am a geologist employed by Esso Minerals Canada, a division of Esso Resources Canada Limited of 1600 - 409 Granville Street, Vancouver, British Columbia V6C 1T2.
2. I am a graduate of the City University of New York with a Bachelor of Science degree in Geology.
3. I am a graduate of the University of Calgary with a Master of Science degree in Geology.
4. I have been practicing my profession for the past eight (8) years.
5. I have no financial interest in the property described herein.

DATED THIS 22nd DAY OF NOVEMBER, 1988 AT VANCOUVER, B.C.



Jennifer F. Lowey
Geologist

STATEMENT OF QUALIFICATIONS

I, Zbigniew B. Doborzynski, of 871 Tudor Avenue, in the City of North Vancouver, in the Province of British Columbia, DO HEREBY CERTIFY THAT:

1. I am a geophysicist employed by Esso Minerals Canada, a division of Esso Resources Canada Limited of 1600 - 409 Granville Street, Vancouver, British Columbia V6C 1T2.
2. I am a graduate of McGill University with a Bachelor of Engineering degree in Mining Engineering and Applied Geophysics.
3. I am a graduate of McGill University with a Masters of Science degree in Applied Geophysics.
4. I am a registered member of the Association of Professional Engineers of the Province of Ontario, the Society of Exploration Geophysicists and the European Association of Exploration Geophysicists.
5. I have been practicing my profession for the past fourteen (14) years.
6. I have no financial interest in the property described herein.

DATED THIS 22nd DAY OF NOVEMBER, 1988 AT VANCOUVER, B.C.



Z. B. Doborzynski, P.Eng.
Geophysicist

13.0 BIBLIOGRAPHY

Glasmacher, V. (1985): Geology, Petrography and Mineralization in the Sixty Mile River Area, Yukon Territory, Canada - Translation - Thesis, Rhenish West Phalian Technical University, Aachen, West Germany.

Melnyk, W. (1988): 1987 Exploration Program, Geological Mapping and Sampling on the Sixty Mile Quartz Claims, Yukon Territory, 115N/15, Assessment Report.

TABLE 1

ROCK SAMPLE DESCRIPTIONS

<u>Sample No.</u>	<u>Location</u>	<u>Description</u>
JL88R01	L1+00N 2+75W Haner Pit	Andesite, intense clay alteration with 2 - 3% disseminated and fracture-controlled pyrite. Chip samples over 1.0m.
JL88R02	L7+00N 2+85W Middle Pit	Andesite lapilli tuff, silicification, 20% pervasive chlorite and 5% disseminated and fracture-controlled pyrite. Chip sample over 1.0m.
JL88R03	L8+10N 2+75W Middle Pit	Andesite lapilli tuff, 20% pervasive chlorite, intense clay alteration and 2% disseminated and fracture-controlled pyrite. Chip sample over 1.0m.
JL88R04	L8+00N 3+75W Middle Pit	Andesite tuff, 20% pervasive chlorite, clay alteration, 2 - 3% disseminated and fracture-controlled pyrite. Chip sample over 1.0m.
JL88R05	L10+00N 4+00E	Amygdaloidal andesite. Grab sample.
JL88R06	L10+00N 4+00E	Chert pebble conglomerate. Grab sample.

TABLE 2

GEOCHEMICAL ICP ANALYSIS

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: P1 SOIL P2 ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. P - 20 mesh, -40 mesh, Pulverized.

DATE RECEIVED: SEP 9 1988 DATE REPORT MAILED: *Sept 15/88* ASSAYER: *C. Leong* D. TOYE OR C. LEONG, CERTIFIED B.C. ASSAYERS

ESSO MINERALS CANADA LTD. PROJECT 403 File # 88-4341 Page 1

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
JL 88 C01	1	17	19	68	.1	15	8	577	2.08	15	5	ND	5	10	1	2	2	21	.18	.043	12	10	.27	111	.02	2	.53	.01	.07	1	5
JL 88 C02	1	25	22	83	.1	20	9	870	2.60	17	5	ND	5	13	1	2	2	26	.25	.055	15	13	.35	134	.03	2	.69	.01	.08	1	3
JL 88 C03	1	20	72	107	.2	28	14	1456	2.91	14	5	ND	5	20	1	2	2	33	.35	.060	19	18	.51	199	.04	2	.96	.01	.08	1	2
JL 88 C04	1	19	20	102	.1	28	13	1563	2.91	17	5	ND	5	20	1	2	3	33	.37	.076	18	17	.49	201	.04	2	.95	.01	.08	1	1
JL 88 C05	1	24	19	108	.1	32	16	2083	3.23	16	5	ND	6	23	1	2	2	37	.41	.079	20	19	.53	234	.05	3	1.06	.01	.09	2	5
JL 88 C06	1	29	21	105	.1	28	14	1653	3.13	17	5	ND	5	21	1	2	4	34	.39	.079	19	18	.50	196	.04	4	.97	.01	.09	2	3
JL 88 C07	1	25	21	109	.1	33	16	2425	3.33	15	5	ND	5	24	1	2	2	38	.44	.081	21	20	.55	234	.05	3	1.06	.01	.10	1	1
JL 88 C08	1	23	21	107	.1	32	15	1565	3.25	15	5	ND	4	23	1	3	2	38	.44	.087	20	21	.57	192	.05	7	1.13	.01	.10	2	423
JL 88 C09	1	19	22	90	.1	26	11	1387	2.93	18	5	ND	6	16	1	2	2	29	.28	.058	17	15	.38	170	.03	2	.75	.01	.08	1	1
JL 88 C10	1	28	25	124	.1	28	16	1281	4.39	21	5	ND	5	29	1	2	4	45	.49	.082	22	23	.57	194	.05	2	1.27	.01	.09	2	1
RE JL 88 C14	1	17	15	76	.2	21	8	623	2.47	12	5	ND	7	19	1	2	2	31	.37	.056	16	17	.39	165	.05	3	.89	.02	.12	2	1
JL 88 C11 P	1	20	21	89	.1	25	11	990	3.53	18	5	ND	6	23	1	3	2	38	.41	.064	18	19	.43	200	.05	3	.96	.02	.11	1	4
JL 88 C12	1	28	26	126	.1	39	20	3889	4.55	20	5	ND	6	27	1	2	4	42	.46	.082	24	19	.48	307	.04	3	.97	.01	.10	1	1
JL 88 C13 P	1	19	17	68	.1	17	7	557	2.48	12	5	ND	4	13	1	2	2	23	.22	.040	12	13	.30	115	.03	3	.62	.01	.08	1	1
JL 88 C14 P	1	18	13	77	.1	22	8	637	2.53	10	5	ND	6	20	1	2	2	32	.39	.061	16	18	.39	169	.05	5	.93	.02	.12	1	1
JL 88 C15	1	19	20	97	.1	25	9	728	2.62	15	5	ND	5	18	1	3	2	33	.37	.084	17	18	.49	147	.05	2	.94	.01	.10	1	3
JL 88 C16 P	1	17	19	80	.1	20	8	547	2.69	10	5	ND	5	19	1	2	3	33	.37	.062	16	19	.41	179	.05	4	.92	.02	.12	1	292
JL 88 C17	1	35	23	111	.1	29	14	476	3.57	18	5	ND	4	27	1	4	2	45	.40	.067	20	26	.70	195	.07	12	1.52	.01	.11	3	1
JL 88 C18 P	1	12	19	56	.2	16	5	303	1.84	13	5	ND	5	10	1	3	4	19	.17	.036	11	10	.23	109	.02	2	.49	.01	.08	1	2
JL 88 C19 P	1	13	15	58	.1	14	6	435	1.90	12	5	ND	4	11	1	2	2	21	.20	.039	12	12	.24	123	.02	2	.54	.01	.07	2	1
JL 88 C20	1	19	22	93	.3	23	10	789	2.43	15	5	ND	6	19	1	2	2	32	.38	.083	18	17	.47	170	.04	4	.90	.01	.09	3	1
JL 88 C21	2	28	28	99	.1	23	10	509	3.05	26	5	ND	6	21	1	2	2	34	.34	.073	20	17	.47	149	.04	10	.97	.01	.10	1	1
JL 88 C22	10	34	30	104	.3	21	13	559	4.49	29	5	ND	6	27	1	2	5	37	.37	.084	24	18	.50	160	.04	2	1.03	.01	.12	1	12
JL 88 C23	10	44	34	103	.2	20	17	692	5.67	42	5	ND	6	35	1	3	2	48	.45	.097	33	19	.53	187	.04	2	1.20	.01	.13	1	149
JL 88 C24	4	27	23	103	.3	23	14	635	3.32	29	5	ND	7	21	1	2	4	35	.33	.074	21	18	.47	159	.04	2	.96	.01	.11	2	1
JL 88 C25 P	2	18	15	66	.1	16	8	443	2.36	17	5	ND	4	14	1	2	2	23	.23	.047	14	13	.28	127	.03	2	.69	.01	.10	1	1
JL 88 C26 P	1	12	14	54	.1	12	7	270	1.73	14	5	ND	4	10	1	2	2	18	.15	.034	11	10	.22	109	.02	2	.48	.01	.07	1	1
JL 88 C27	1	40	42	127	.3	21	10	492	3.08	9	5	ND	5	34	1	2	2	48	.44	.031	22	21	.52	362	.07	2	2.01	.01	.08	1	1
JL 88 C28	1	33	60	113	.4	17	8	702	2.40	8	5	ND	2	52	1	2	3	36	.71	.048	17	17	.43	355	.05	2	1.60	.01	.08	1	3
JL 88 C29	1	30	31	105	.6	16	8	524	2.32	6	5	ND	1	49	1	3	2	34	.67	.051	15	18	.45	306	.05	2	1.57	.01	.13	1	2
JL 88 C30	1	29	27	107	.5	19	8	1005	2.30	5	5	ND	1	47	1	2	2	34	.62	.055	16	17	.47	337	.05	2	1.57	.01	.13	1	6
JL 88 C31	1	51	18	95	.1	284	28	887	4.00	16	5	ND	1	47	1	3	2	52	1.23	.047	23	149	1.66	348	.05	3	1.83	.01	.12	2	8

SEP 16

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
JL 88 R01	1	183	168	171	.9	29	7	471	3.26	2	5	ND	4	24	2	2	2	18	1.89	.076	13	19	.73	22	.01	6	.60	.01	.17	1	5
JL 88 R02	3	305	30	54	.3	5	6	176	3.08	8	5	ND	4	16	1	2	3	12	.59	.048	8	4	.37	20	.01	3	.80	.01	.29	1	20
JL 88 R03	2	169	30	111	.1	2	6	367	3.17	7	5	ND	6	11	1	2	2	13	.70	.069	8	4	.28	14	.01	2	.62	.01	.19	1	1
JL 88 R04	2	251	21	81	.1	9	8	391	3.04	4	5	ND	4	16	1	2	2	9	.71	.058	7	5	.32	14	.01	3	.64	.01	.23	1	5
RE JL 88 R02	3	302	26	51	.2	4	6	166	2.99	7	5	ND	3	15	1	2	2	11	.56	.046	8	3	.35	19	.01	2	.75	.01	.28	1	16
JL 88 R05	2	7	4	4	.2	2	1	14	1.12	6	5	ND	3	56	1	2	3	3	.03	.013	8	4	.02	121	.01	2	.24	.01	.28	1	3
JL 88 R06	2	9	2	3	.1	1	1	14	.75	7	5	ND	4	27	1	2	4	3	.01	.036	15	3	.01	96	.01	2	.26	.01	.19	1	4

APPENDIX A

LIST OF CLAIMS

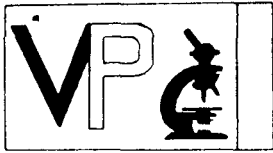
APPENDIX A - LIST OF CLAIMS

<u>CLAIM NAME</u>	<u>TAG NO.</u>	<u>RENEWAL</u>	<u>EXPIRY DATE*</u>
Sixty Mile No.			
1	YA88238	1 year	Oct. 31, 1989
2	YA88239	1 year	Oct. 31, 1989
3	YA88240	1 year	Oct. 31, 1989
4	YA88241	1 year	Oct. 31, 1989
5	YA88242	1 year	Oct. 31, 1989
6	YA88243	1 year	Oct. 31, 1989
7	YA88244	1 year	Oct. 31, 1989
8	YA88245	1 year	Oct. 31, 1989
9	YA88246	1 year	Oct. 31, 1989
10	YA88247	1 year	Oct. 31, 1989
11	YA88248	1 year	Oct. 31, 1989
12	YA88249	1 year	Oct. 31, 1989
13	YA88250	1 year	Oct. 31, 1989
14	YA88251	1 year	Oct. 31, 1989
15	YA88252	1 year	Oct. 31, 1989
16	YA88253	1 year	Oct. 31, 1989
17	YA88254	1 year	Oct. 31, 1989
18	YA88255	1 year	Oct. 31, 1989
19	YA88256	1 year	Oct. 31, 1989
20	YA88257	1 year	Oct. 31, 1989
21	YA88258	1 year	Oct. 31, 1989
22	YA88259	1 year	Oct. 31, 1989
23	YA88260	1 year	Oct. 31, 1989
24	YA88261	1 year	Oct. 31, 1989
25	YA88262	1 year	Oct. 31, 1989
26	YA88263	1 year	Oct. 31, 1989
27	YA88264	1 year	Oct. 31, 1989
28	YA88265	1 year	Oct. 31, 1989
29	YA88266	1 year	Oct. 31, 1989
30	YA88267	1 year	Oct. 31, 1989
31	YA88268	1 year	Oct. 31, 1989
32	YA88269	1 year	Oct. 31, 1989
33	YA88270	1 year	Oct. 31, 1989
34	YA88271	1 year	Oct. 31, 1989
35	YA88272	1 year	Oct. 31, 1990
36	YA88273	1 year	Oct. 31, 1990
37	YA88274	1 year	Oct. 31, 1990
38	YA88275	1 year	Oct. 31, 1990
39	YA88276	1 year	Oct. 31, 1990
40	YA88277	1 year	Oct. 31, 1990
41	YA88278	1 year	Oct. 31, 1990
42	YA88279	1 year	Oct. 31, 1990
43	YA88280	1 year	Oct. 31, 1990
44	YA88281	1 year	Oct. 31, 1990
45	YA88282	1 year	Oct. 31, 1990
46	YA88283	1 year	Oct. 31, 1990
47	YA88284	1 year	Oct. 31, 1990
48	YA88285	1 year	Oct. 31, 1990
49	YA88286	1 year	Oct. 31, 1990
50	YA88287	1 year	Oct. 31, 1990
51	YA88288	1 year	Oct. 31, 1990

* Contingent upon acceptance of this report for assessment purposes.

APPENDIX B

PETROGRAPHIC DESCRIPTIONS



Vancouver Petrographics Ltd.

JAMES VINNELL, Manager
JOHN G. PAYNE, Ph.D. Geologist
A.L. LITTLEJOHN, M.Sc. Geologist
JEFF HARRIS, Ph.D. Geologist

P.O. BOX 39
8887 NASH STREET
FORT LANGLEY, B.C.
VOX 1J0

PHONE (604) 888-1323

Invoice 7801
Project #403
November, 1988

Report For: J.F. Lowey
Esso Minerals Canada
1600 - 409 Granville Street
Vancouver, B.C.
V6C 1T2
Phone: (604) 661-7100

Samples: Field Numbers: JL88R01 and JL88R03
Lab Numbers: 1361 and 1362
(2 polished thinsections)
Sixtymile Property, Yukon

Summary:

This sample suite consists of two similar, pyritic, altered andesitic tuffs, from the Carmacks Group, Central Yukon. Both are highly sericitized but have variable intensity of argillic alteration.

Specimen JL88R01 (1361) has been subjected to a relatively complete overprinting of intense sericite and clay mineral development which has destroyed primary textures in many parts of the slide. Less altered sections indicate the rock was originally a medium-grained tuff consisting mainly of equigranular (0.2 mm) quartz and plagioclase. An original mafic mineral appears to have been biotite which is now completely replaced by a muscovite-magnetite assemblage. Sample JL88R01 contains numerous microquartz veinlets.

The bedded, tuffaceous nature of Specimen JL88R03 (1362) is well preserved due to less clay mineral development than JL88R01. Broken crystals are common. Sericite is pervasive throughout JL88R03 but is concentrated in the coarser grained layers.

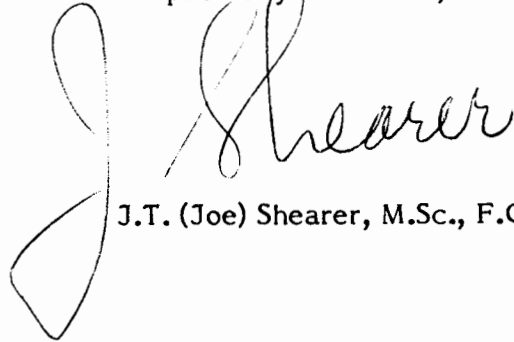
Pyrite occurs disseminated throughout both samples and is clearly associated (contemporaneous) with the sericite development.

....cont'd

Pyrite on fracture surfaces is common. Early stage magnetite is present as small grains. Pyrite often contains small inclusions of magnetite and in JL88R03 pyrite has traces of chalcopyrite and pyrrhotite inclusions.

Individual descriptions of each specimen are attached. If you have any questions about these descriptions, please call me at 681-4902.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "J. Shearer". The signature is written in black ink and is positioned to the right of the typed name below it.

J.T. (Joe) Shearer, M.Sc., F.G.A.C.

-- PETROGRAPHIC ANALYSIS --

Nov 1988

For: J.F. Lowey, Esso Minerals Canada, Vancouver, B.C.
Project: #403, Sixtymile Property, Yukon

SPECIMEN NUMBER: JJ 88 R01
(Lab Number 1361)
Polished Thinsection

Handspecimen Description:

Brown-orange weathering, weathered surface highly pitted, light grey, sugary texture, bleached appearance, fragmental (pyroclastic) containing slightly darker grey rounded "lithic" fragments. Pyrite disseminated throughout the specimen 3-4% in irregular composite grains, plus additional pyrite grains along fracture surfaces. No potassium feldspar present. Abundant quartz(?) in grains up to 0.5 mm in diameter. Intense argillic alteration.

Field Rock Name: Pyritic, altered (argillic) andesite (from J.F. Lowey notes)

Thinsection Examination:

Estimated Mode:

- 25% Quartz
- 11% Plagioclase (altered, relict)
- 15% Sericite
- 4% Opaques (pyrite)
- 45% Groundmass (clay minerals and sericite)

Quartz grains form individual, isolated grains up to 0.2 mm in diameter, and commonly make up composite grains up to 0.6 mm. In some parts of the slide, the intense argillic-sericite alteration has resulted in "islands" of less altered material in lenses greater than 1.6 mm long. These less altered lenses give the fragmental appearance noted in the handspecimen. Many of the less altered lenses are composed of an interlocking cherty mosaic of quartz. Plagioclase is highly altered to a fine grained sericitic-clay mineral-rich assemblage. Rarely relict plagioclase crystal outlines are observed up to 0.75 mm long. All plagioclase grains now have ragged boundaries due to alteration.

Sericite mainly forms large, fine grained masses associated with finer crystalline clay minerals (groundmass). The groundmass appears to over-print the original medium crystalline quartz-plagioclase constituents. Sericite also forms rectangular lath-like aggregates up to 0.8 mm long associated with tiny opaque grains. This is probably a replacement of a primary mafic mineral, perhaps biotite.

Quartz forms micro-veinlets up to 0.15 mm wide which traverse the entire slide. The veinlets are composed of 0.1 mm wide quartz grains. Where one micro-veinlet terminates, another will begin within 0.5 mm.

The opaques (pyrite) form irregular grains up to 1.8 mm in diameter. They have many inclusions of quartz, plagioclase and groundmass. The pyrite is a late stage event associated with the sericite alteration. It is found in the less altered lenses also. Occasionally, pyrite grains are surrounded by a cherty envelope. Minor fine grained magnetite (up to 0.01 mm) is disseminated throughout the slide. Elongated rectangular magnetite grains are commonly grouped in rough groups. Traces of small magnetite inclusions were noted in the pyrite. In rare cases, some pyrite grains have up to 10% magnetite inclusions.

Rock Name: Intensely altered (argillic and sericitic alteration)
Andesitic tuff.

-- PETROGRAPHIC ANALYSIS --

Nov 1988

For: J.F. Lowey, Esso Minerals Canada, Vancouver, B.C.
Project: #403, Sixtymile Property, Yukon

SPECIMEN NUMBER: JJ 88 R03
(Lab Number 1362)
Polished Thinsection

Handspecimen Description:

Grey weathering, brownish-grey, fragmental appearance, prominently layered, 0.5 cm layers. Disseminated pyrite throughout plus pyrite coating fracture surfaces, 4 to 5% py. One subangular fragment is 7 mm long. Tuffaceous, no potassium feldspar present. Small pin-hole cavities common throughout.

Field Rock Name: Pyritic altered (argillic) andesite.
Schistose fabric (from J.F. Lowey notes)

Thinsection Examination:

Estimated Mode:

- 10% Quartz
- 13% Plagioclase
- 16% Chert (very fine grained silica) as fragments
- 9% Muscovite
- 10% Sericite
- 32% Groundmass (mixture of sericite-quartz and minor clay minerals)
- 6% Calcite
- 3% Opaques (pyrite, chalcopyrite, magnetite, pyrrhotite)
- 1% Apatite

Each "layer" is compositionally different from the adjoining layer in addition to grain size variations.

Isolated, ragged, rounded quartz and plagioclase grains occur throughout up to 0.1 mm in diameter. The edges of the slide are composed of fine grained cherty groundmass with a large variation in fragment size up to 0.4 mm. Skeletal calcite granular grains form, in association with muscovite, crude square to rectangular masses, perhaps replacing a lithic fragment type.

Muscovite also forms fairly pure rectangular grains up to 0.3 mm long which reflect a primary mineral replacement, probably plagioclase.

The finer layers contain euhedral apatite crystals up to 0.25 mm long. A relict, close packed rounded fragmental texture is apparent which is preserved to a large extent by the calcite-muscovite selective replacement.

The coarser central layer is similar in mineralogy to Sample JJ 88 R01 with less sericite and argillic alteration.

The opaques are concentrated in the coarser grained layers and form slightly irregular grains up to 0.8 mm in diameter. Some of the larger grains have inclusions of quartz, chert and groundmass. Occasionally, some of the pyrite grains have small 0.003 to 0.01 mm smooth inclusions of magnetite. These magnetite grains occur within the pyrite grains as well as on the grain boundaries. Minor small (0.008 mm) magnetite grains are disseminated throughout the specimen but are most common near the larger pyrite grains. Traces of chalcopyrite inclusions (0.006 mm) were noted in pyrite. Larger elongate masses of pyrite are located on the edge of the slide (coating fractures) up to 3 mm long. These are fractured with few gangue inclusions. Small pyrrhotite inclusions were noted. Overall, of all opaques, pyrite is about 97%, magnetite 3%, with traces of chalcopyrite and pyrrhotite.

Sericite forms subrectangular masses up to 0.6 mm across replacing plagioclase and quartz in the coarser layers. Individual quartz and plagioclase grains are usually ragged with a large variation in grain sizes.

Muscovite associated with tiny opaque (magnetite) grains is entirely replacing an original mafic mineral (biotite) which formed "needle-like" grains up to 1.5 mm long. Commonly the large sericite patches have several coarser flakes of muscovite.

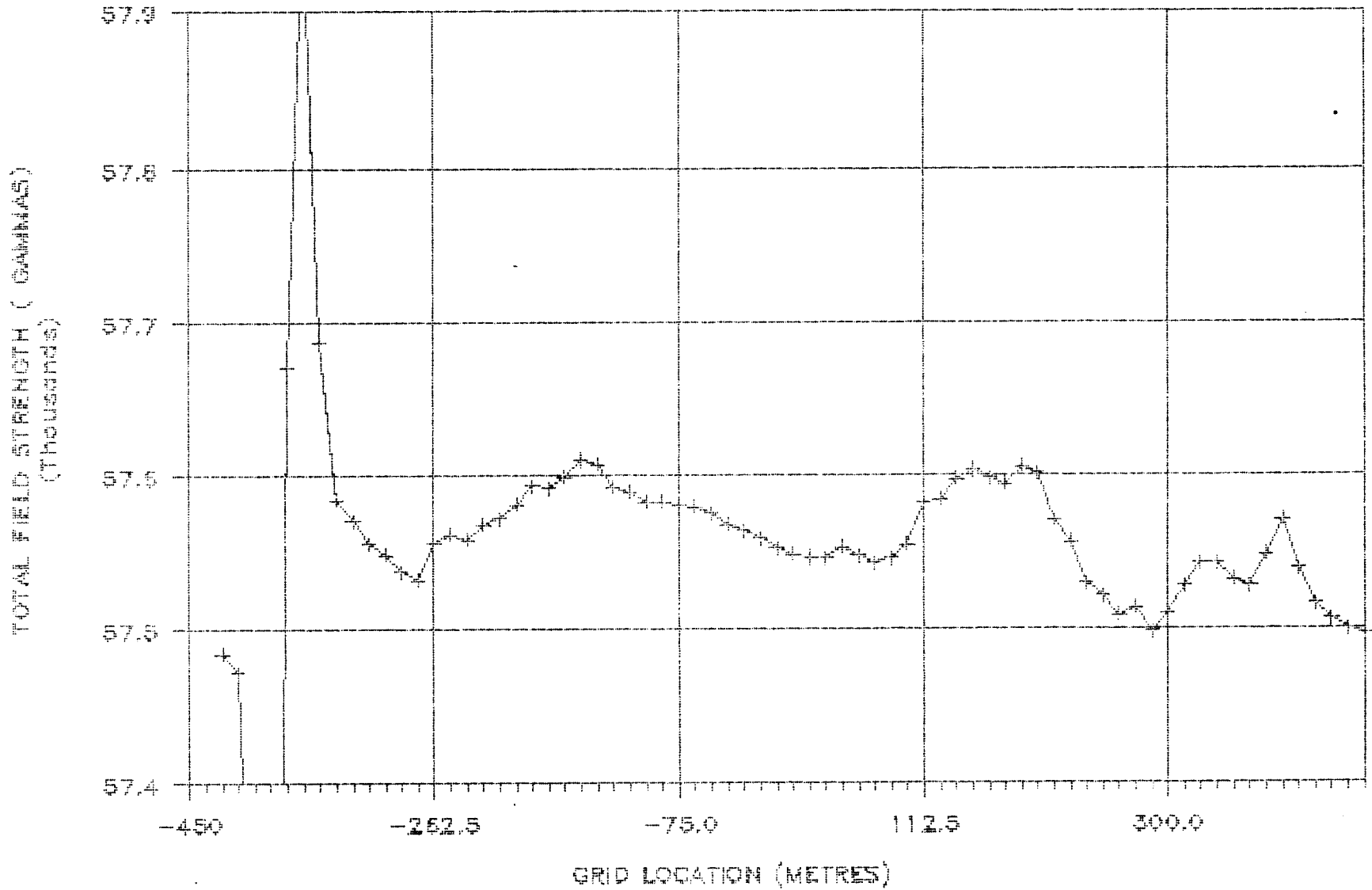
Rock Name: Pyritic, altered (sericitic, minor argillic), bedded andesitic tuff.

APPENDIX C

CORRECTED FIELD PROFILES

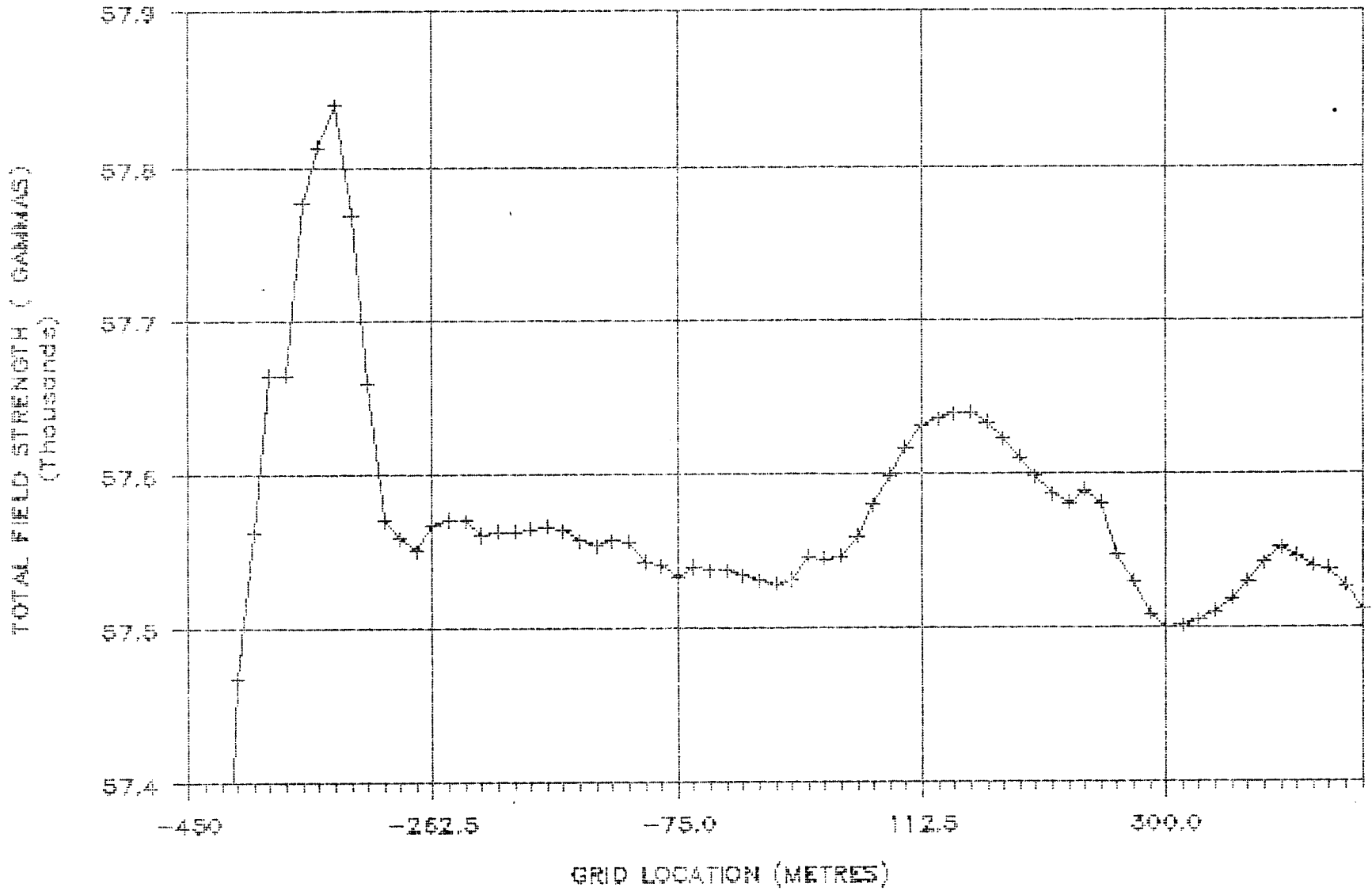
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EAST GRID LINE ON



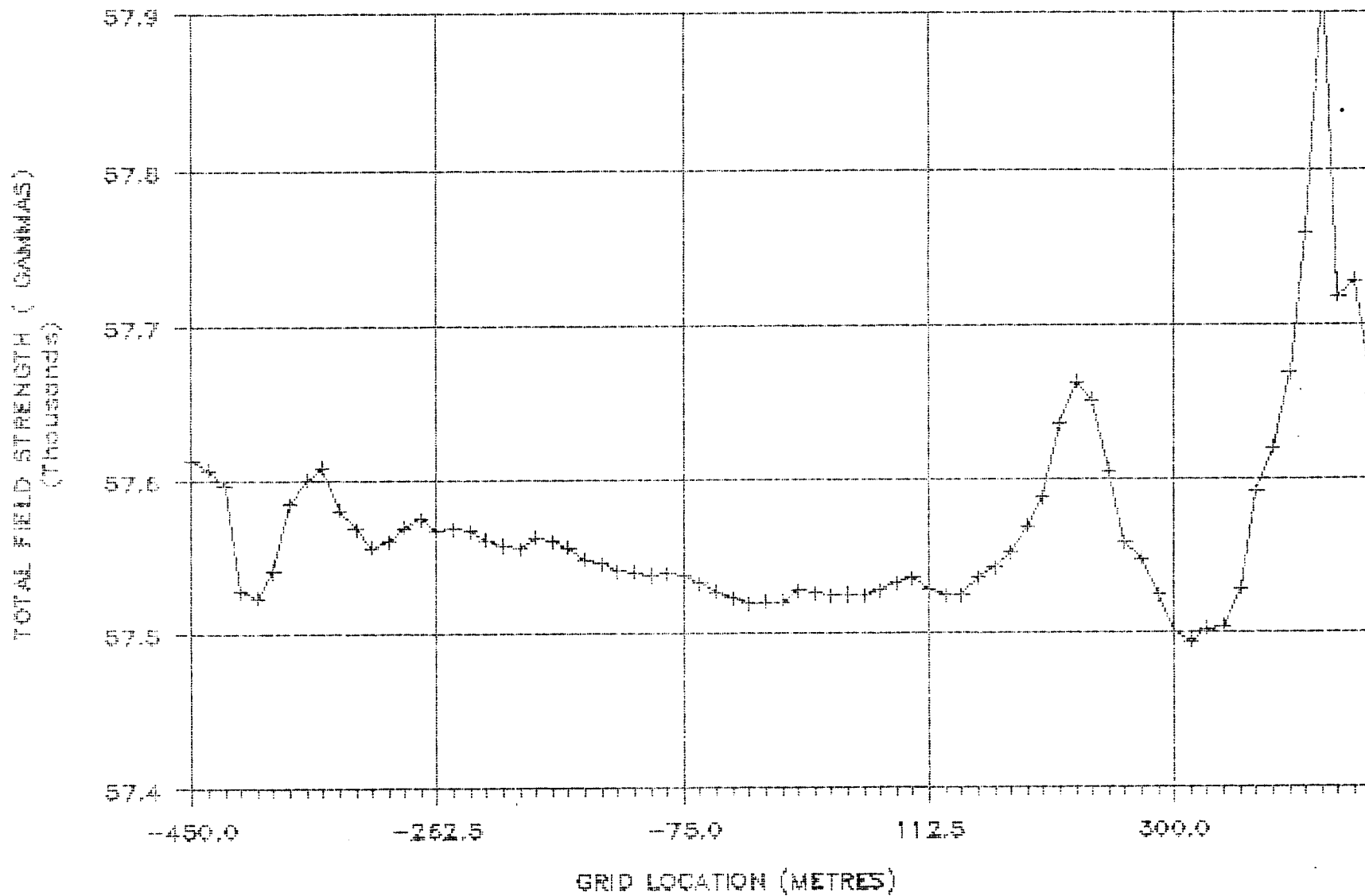
SIXTY MILE MAGNETOMETER SURVEY

EAST GRID LINE 1N



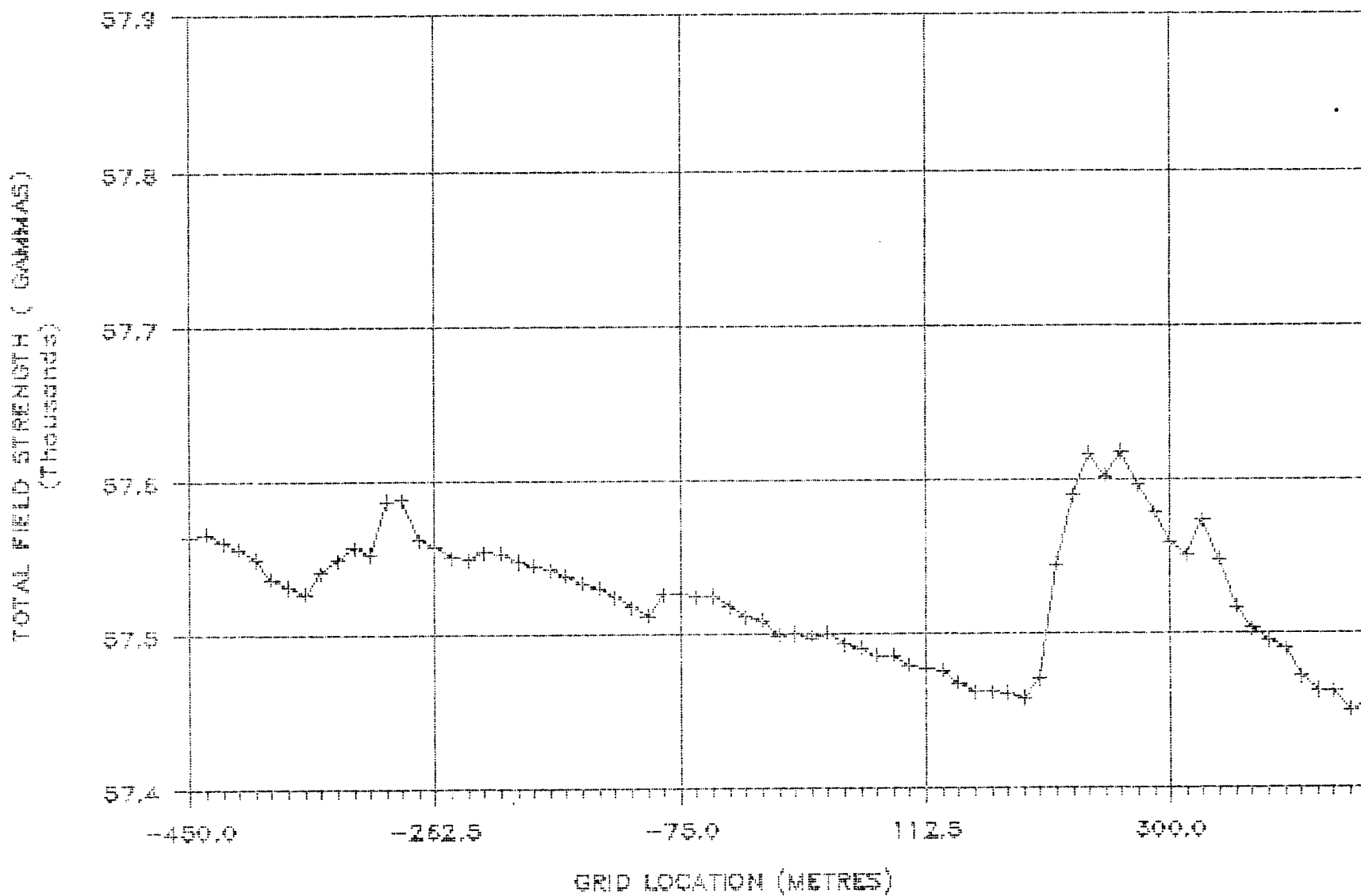
SIXTY MILE MAGNETOMETER SURVEY

EAST GRID LINE 2N



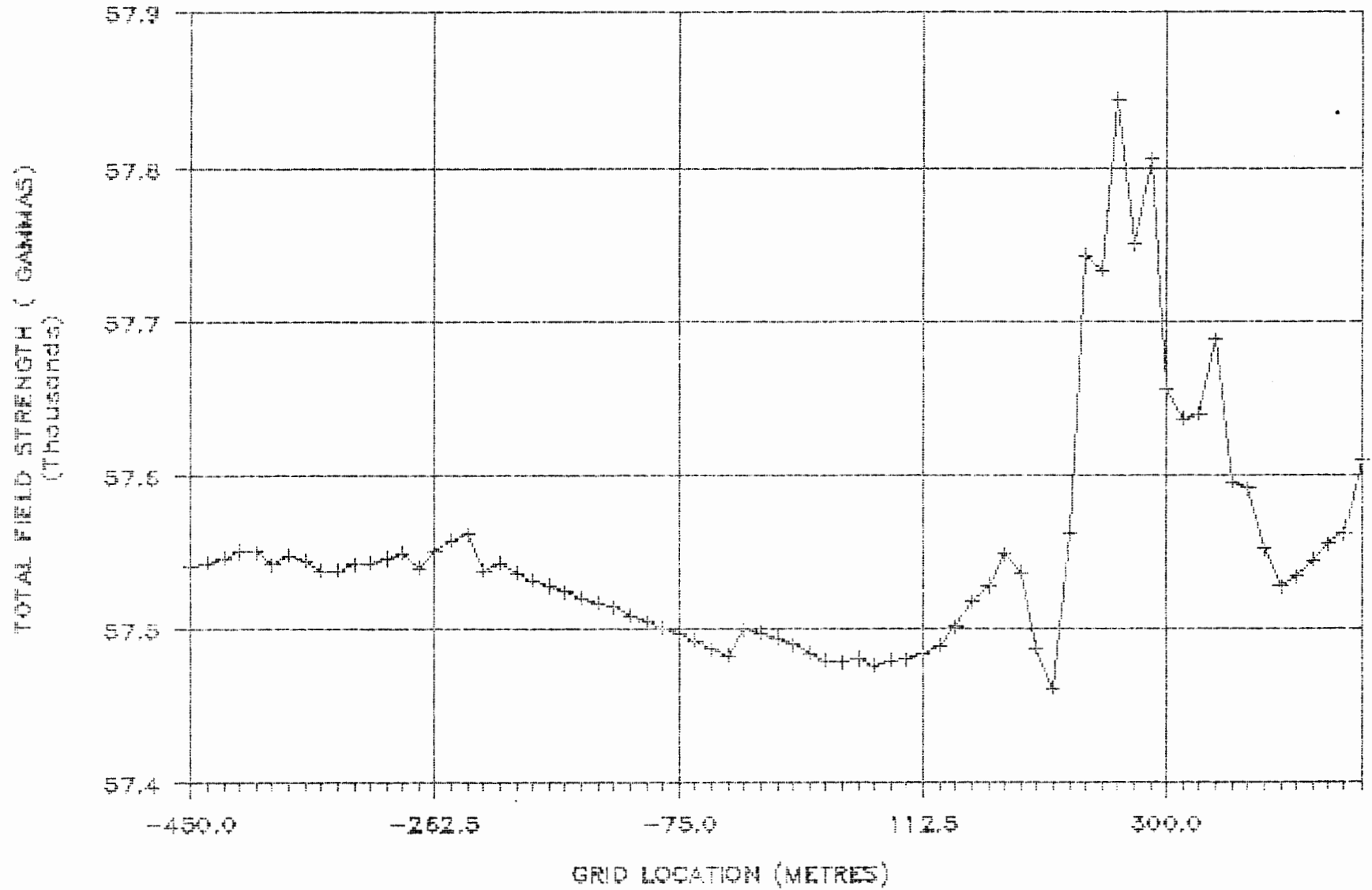
ESSO SIXTY MILE MAGNETOMETER SURVEY

EAST GRID LINE 3N



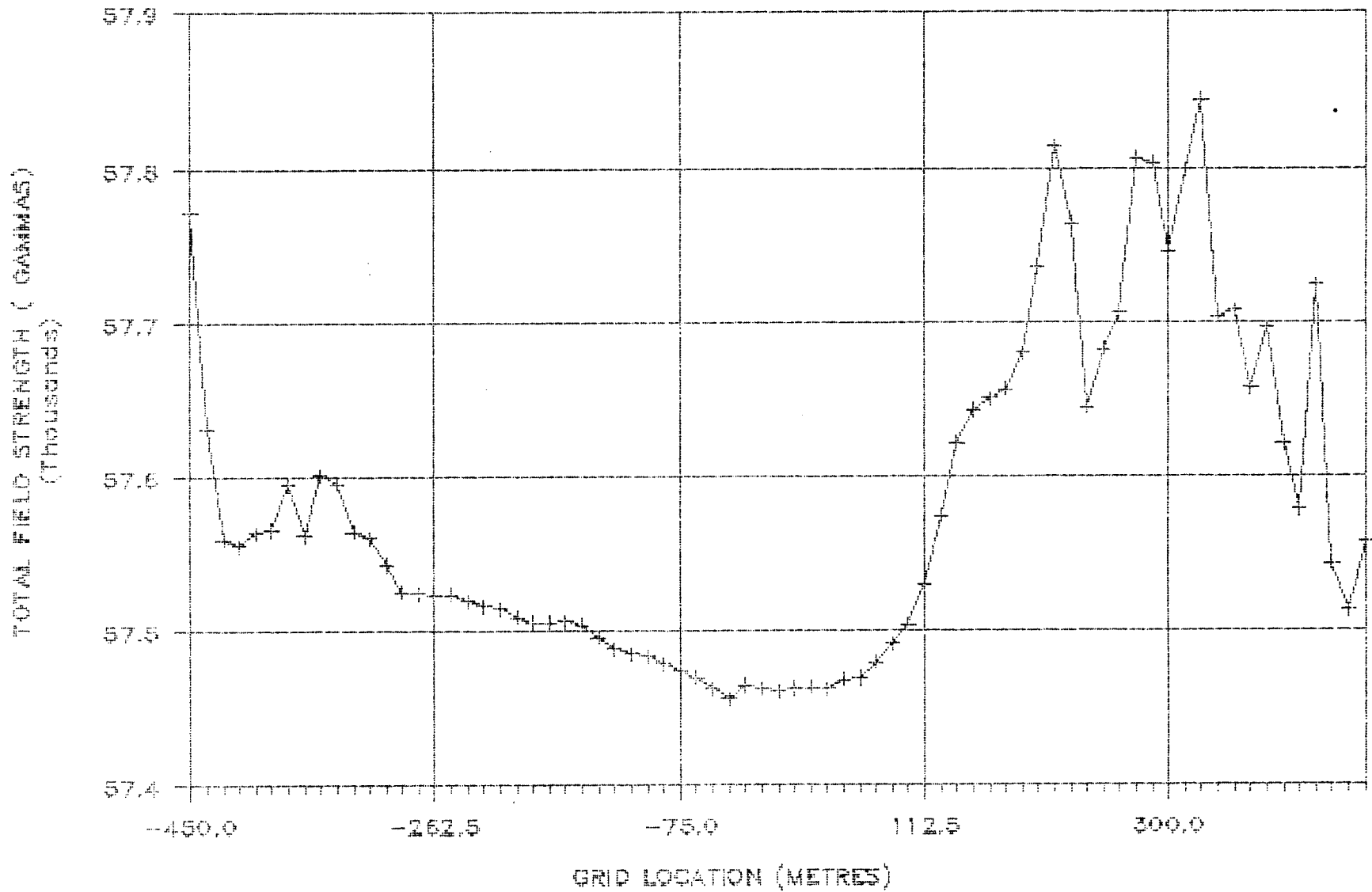
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EAST GRID LINE 4N



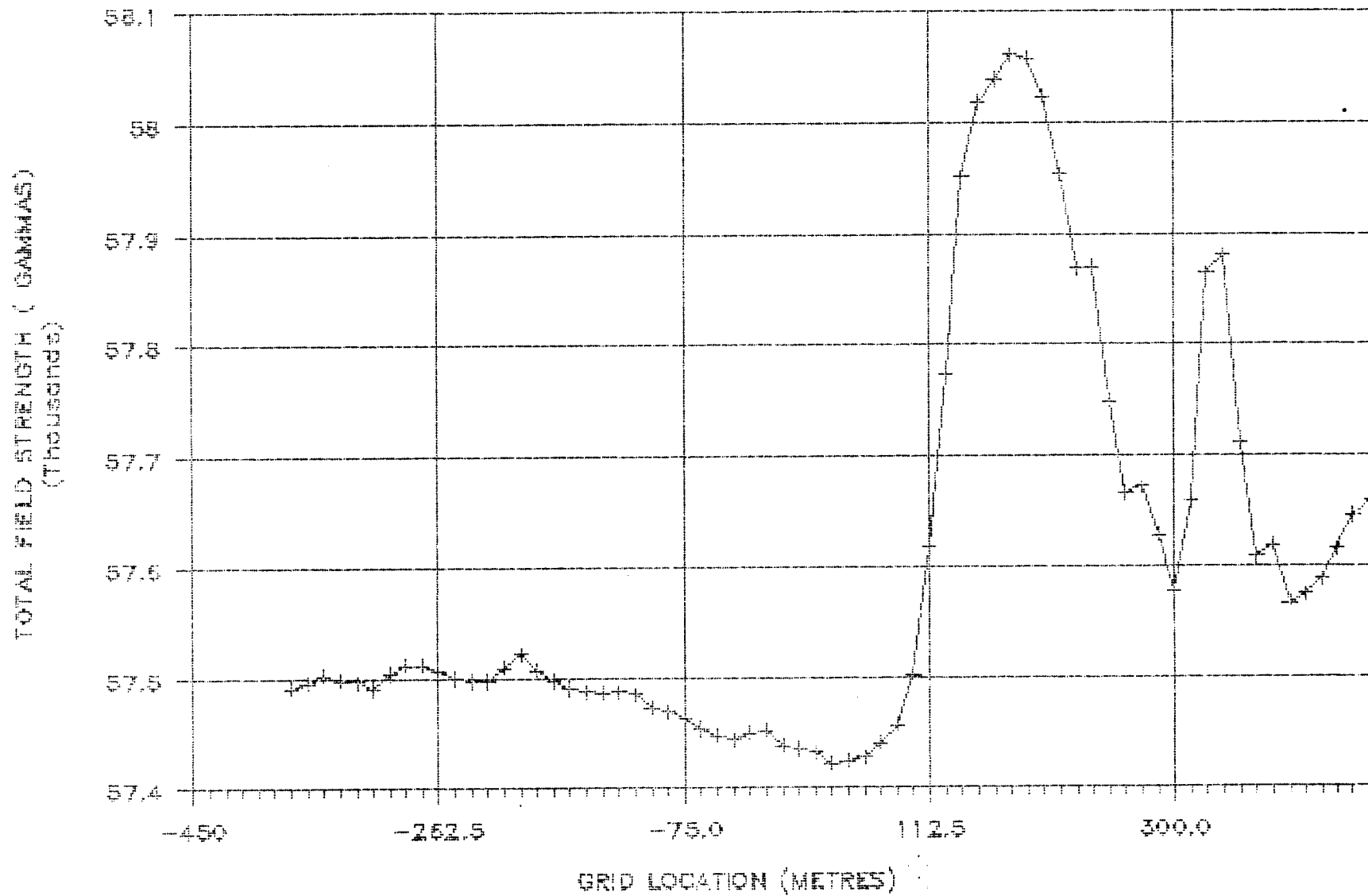
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EAST GRID LINE 5N



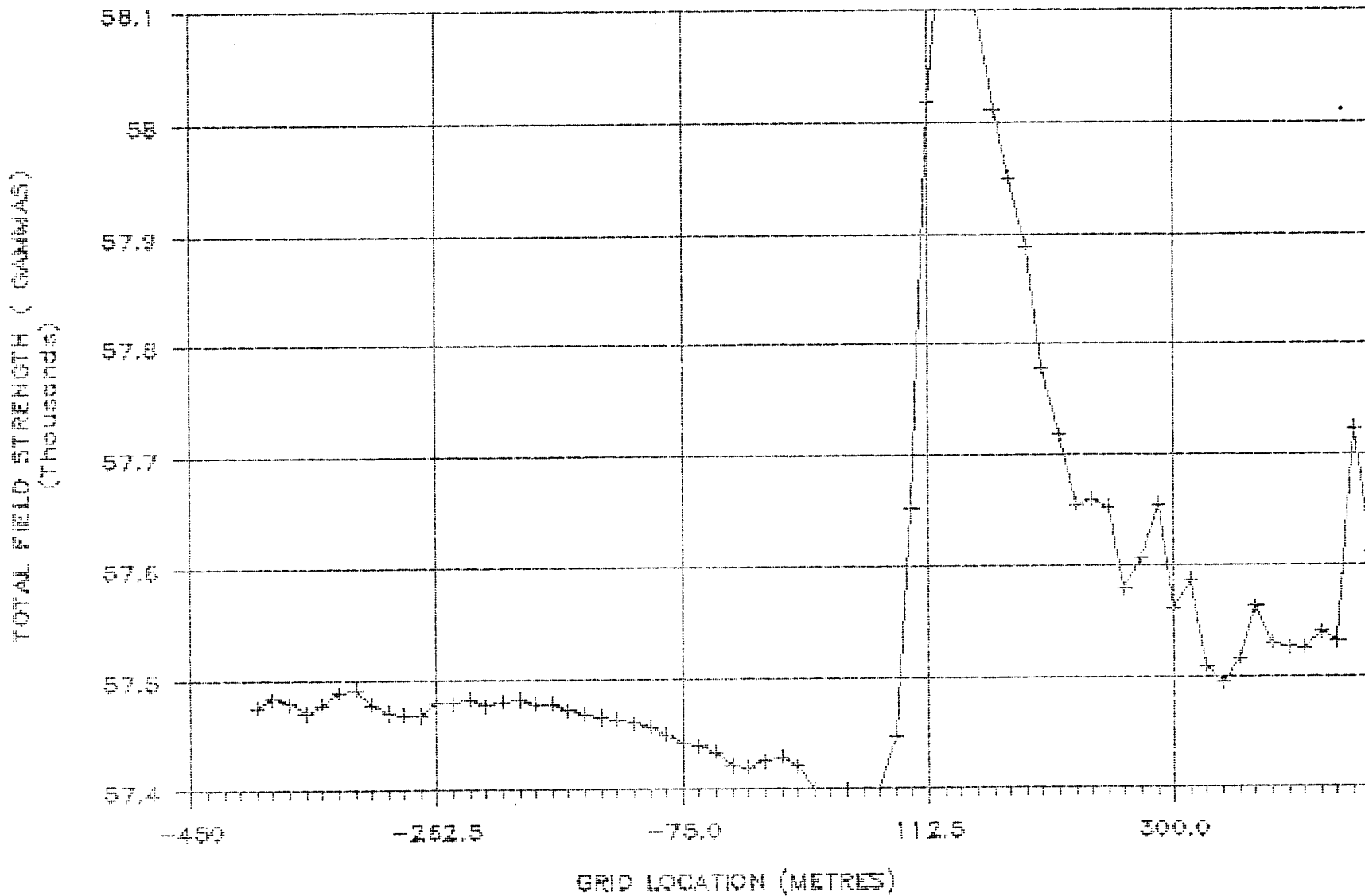
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EAST GRID LINE EN



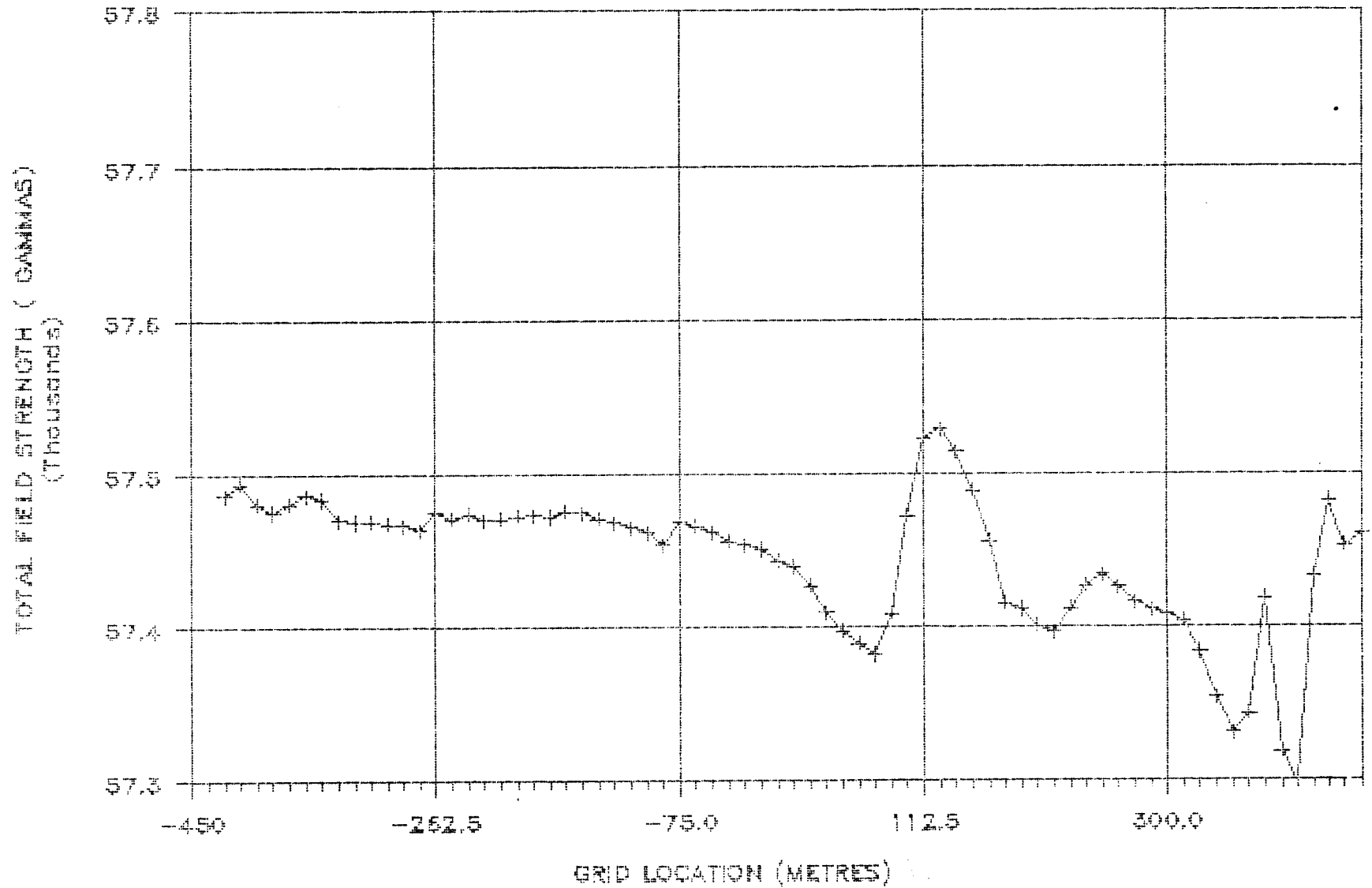
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EAST GRID LINE 7N



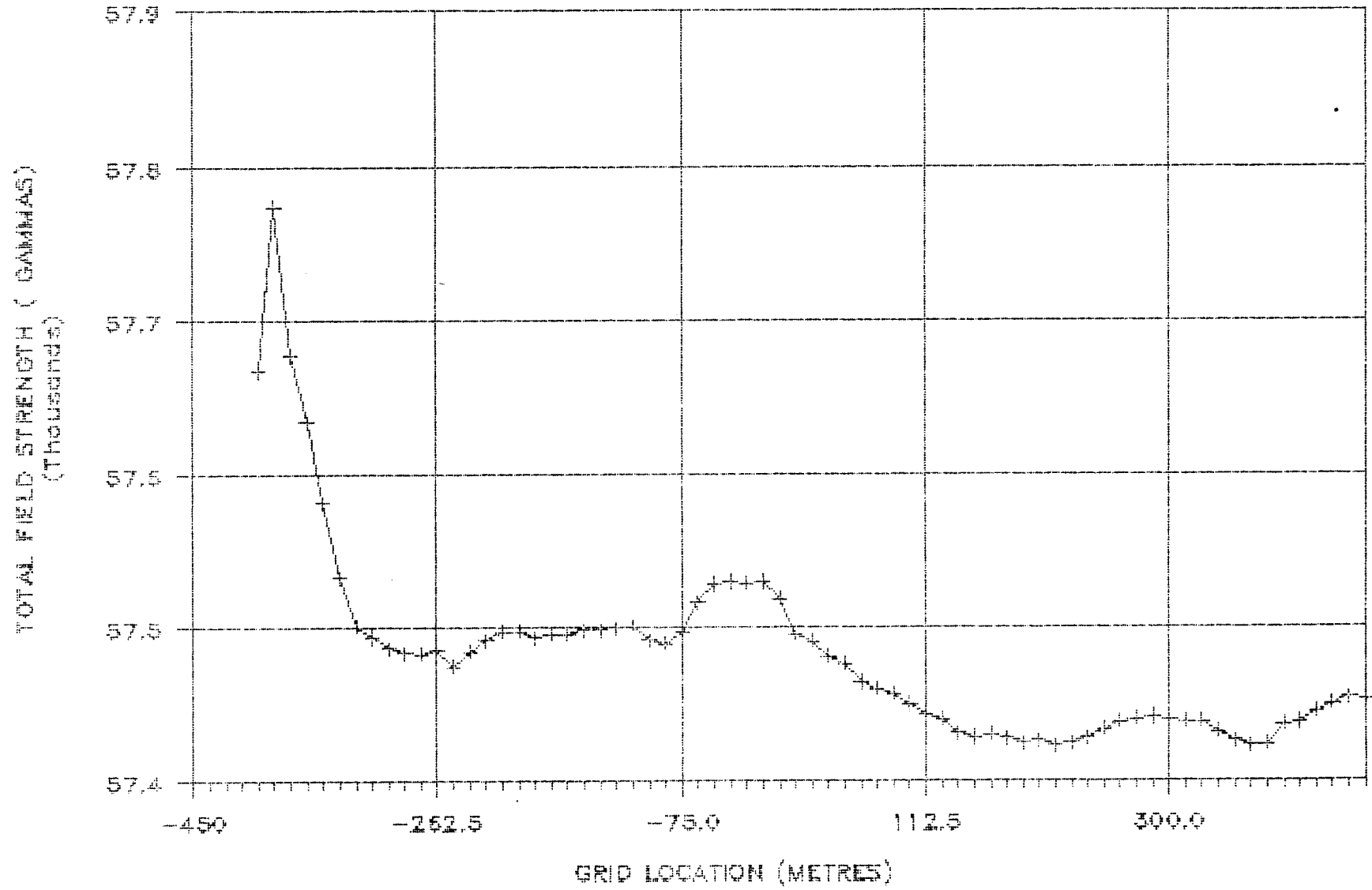
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EAST GRID LINE 8N



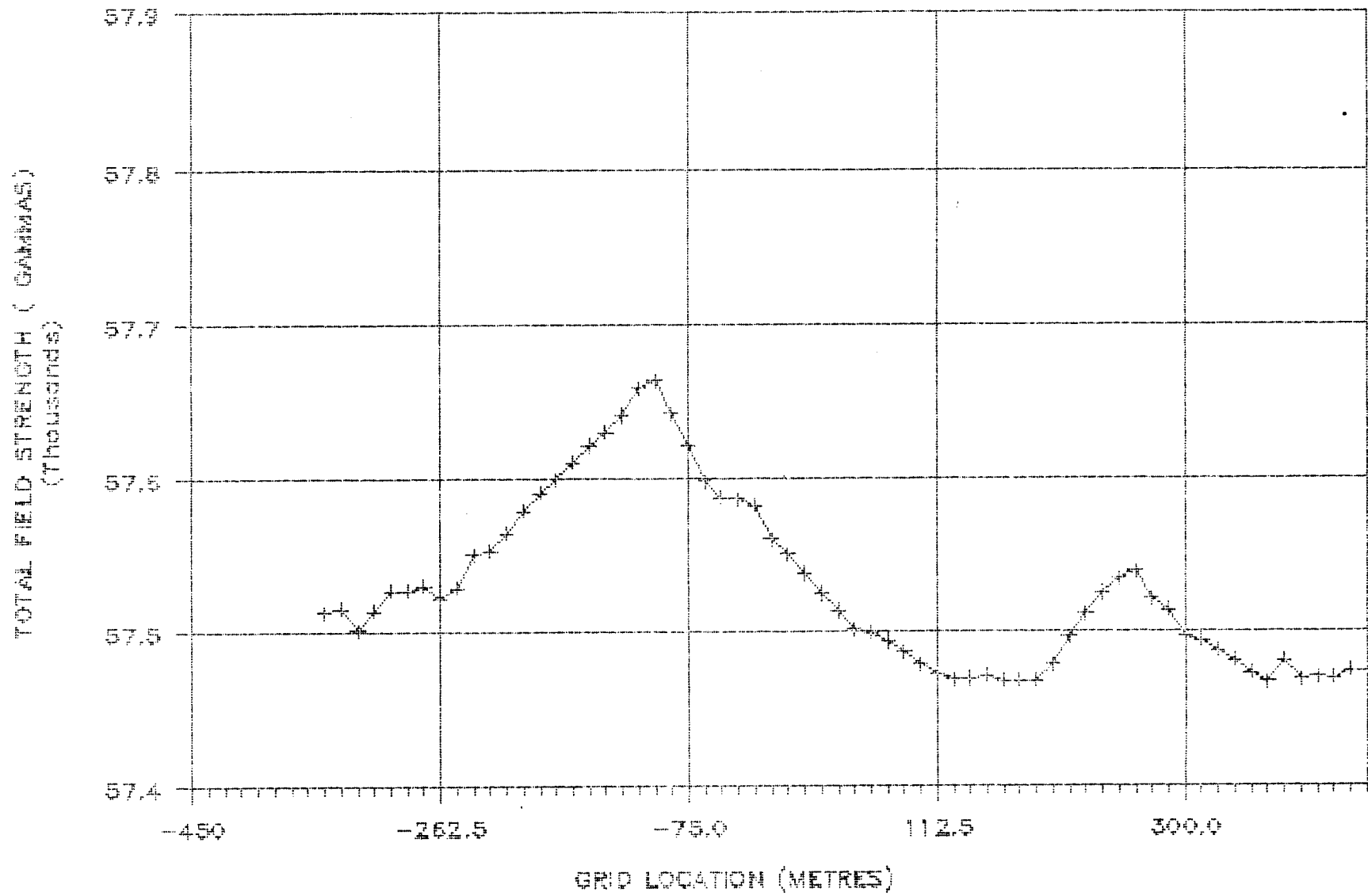
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EAST GRID LINE 9N



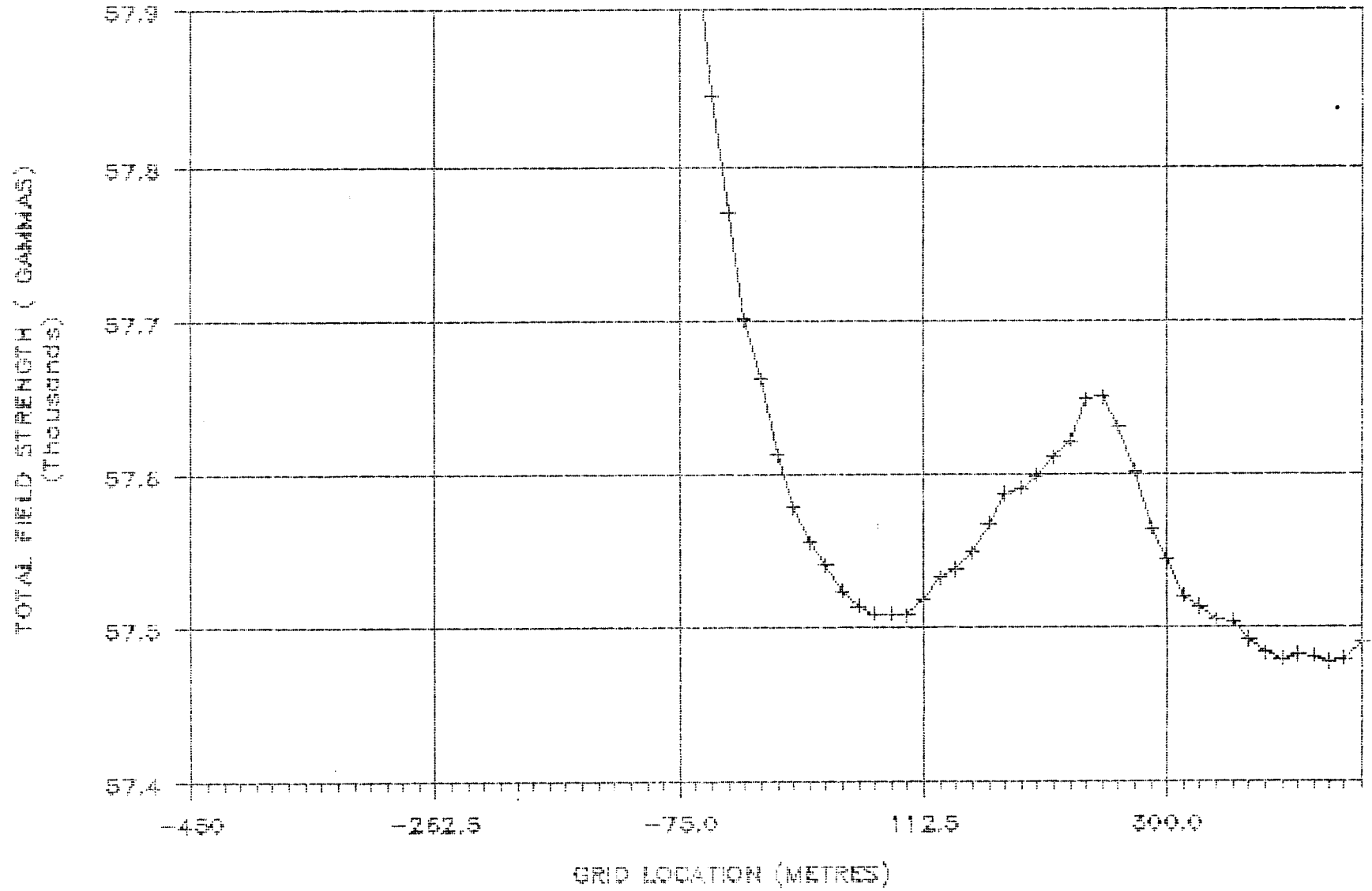
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EAST GRID LINE 10N



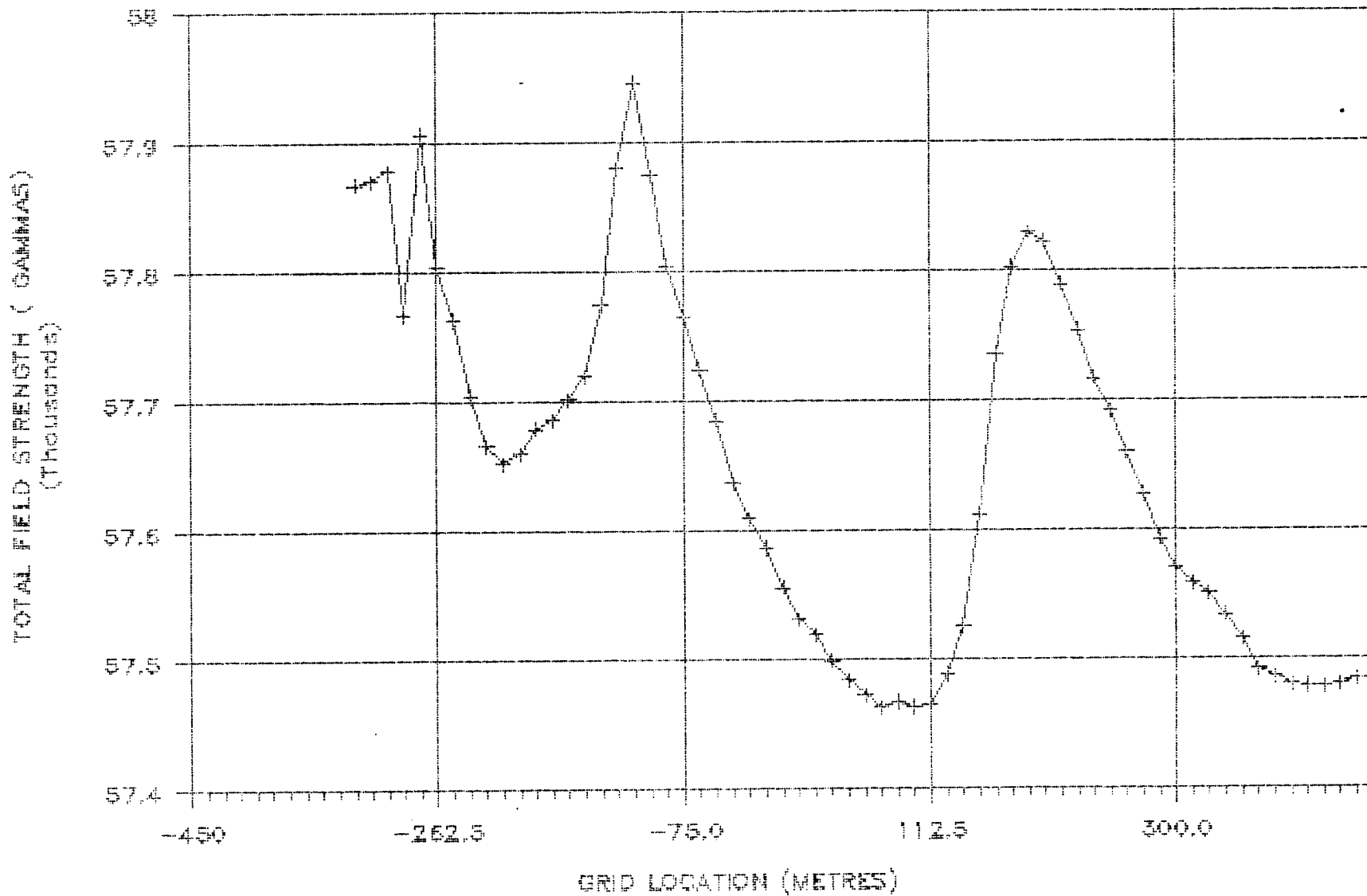
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EAST GRID LINE 11N



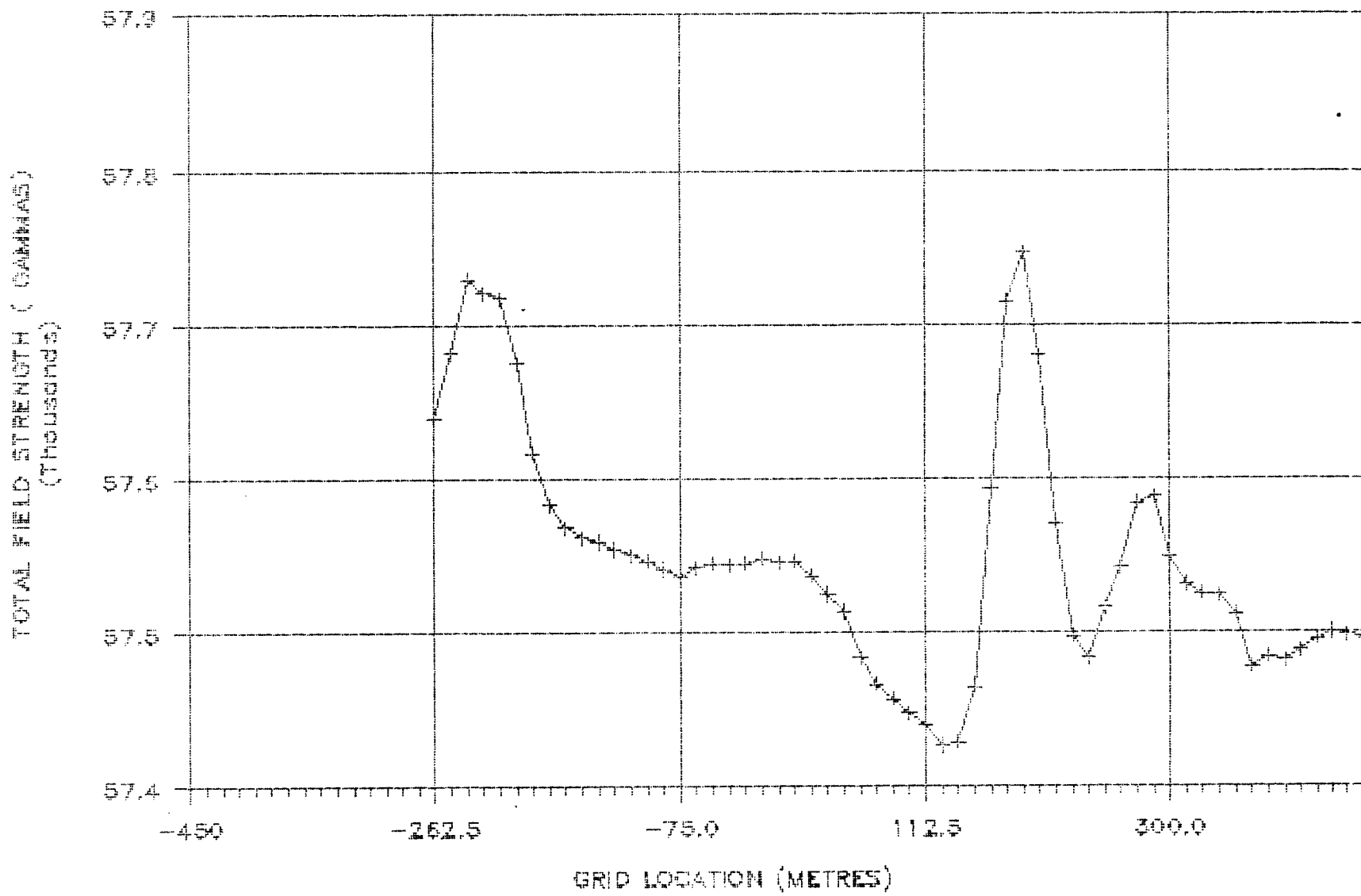
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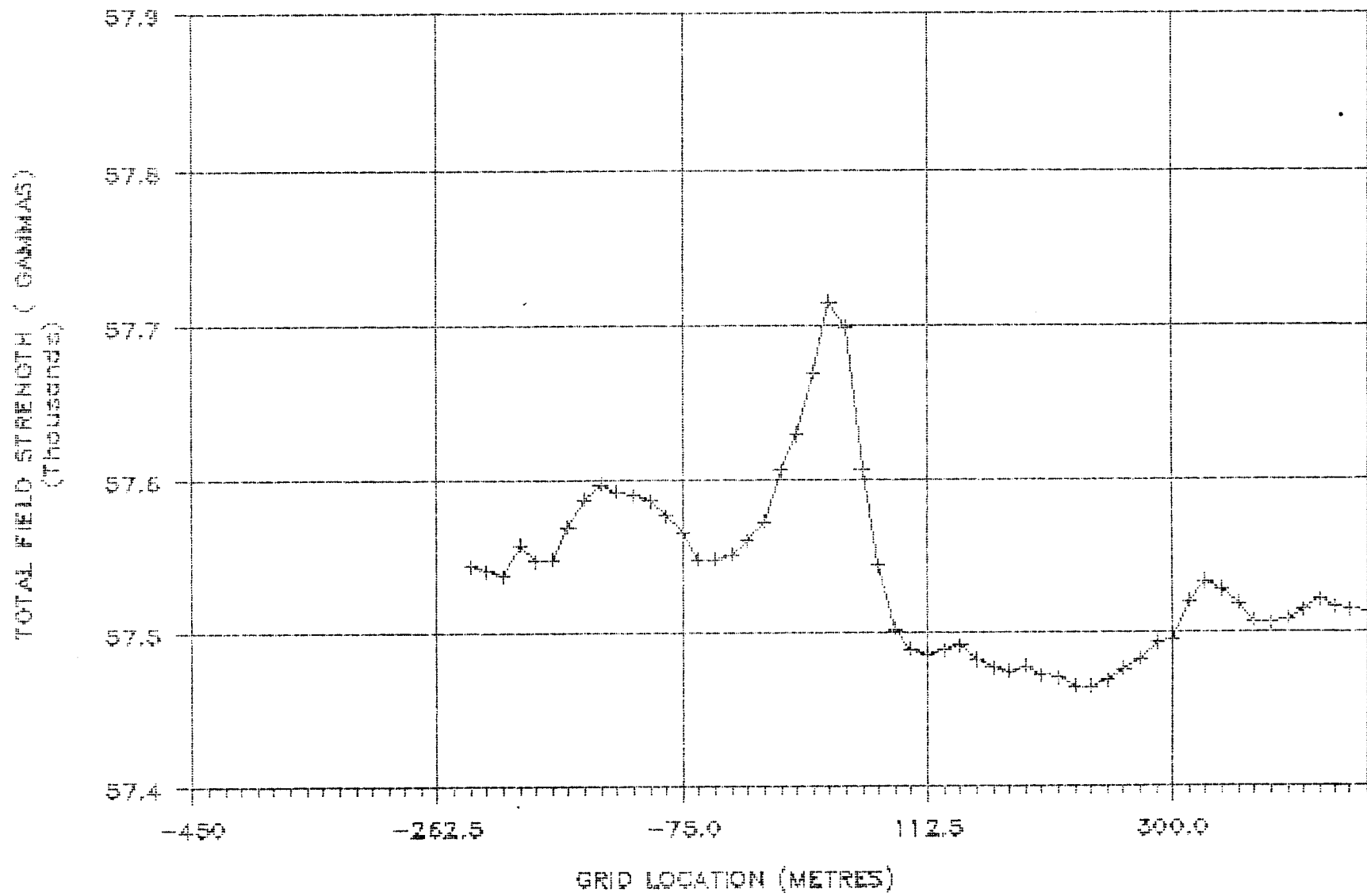
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EAST GRID LINE 13N



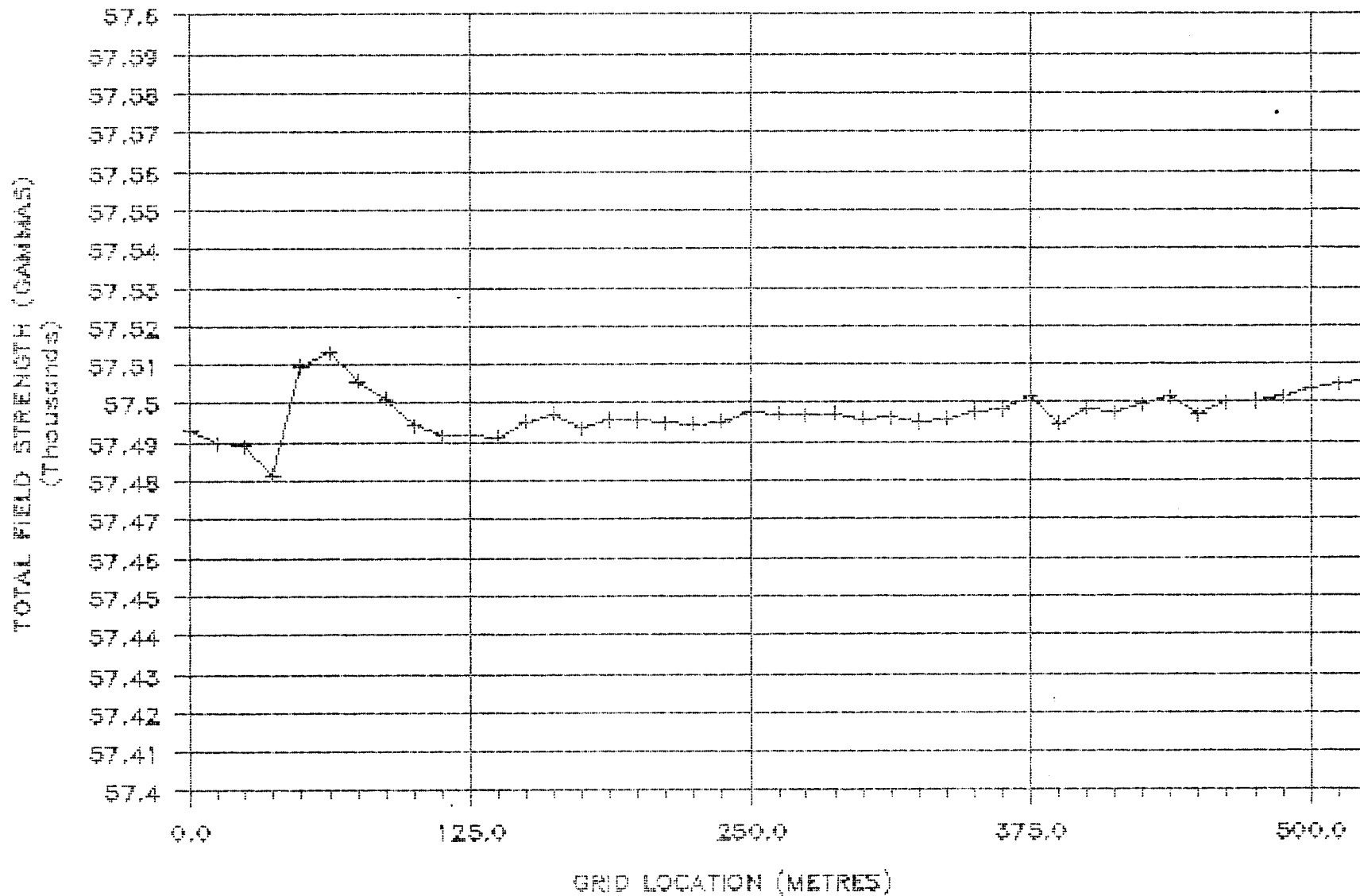
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EAST GRID LINE 14N



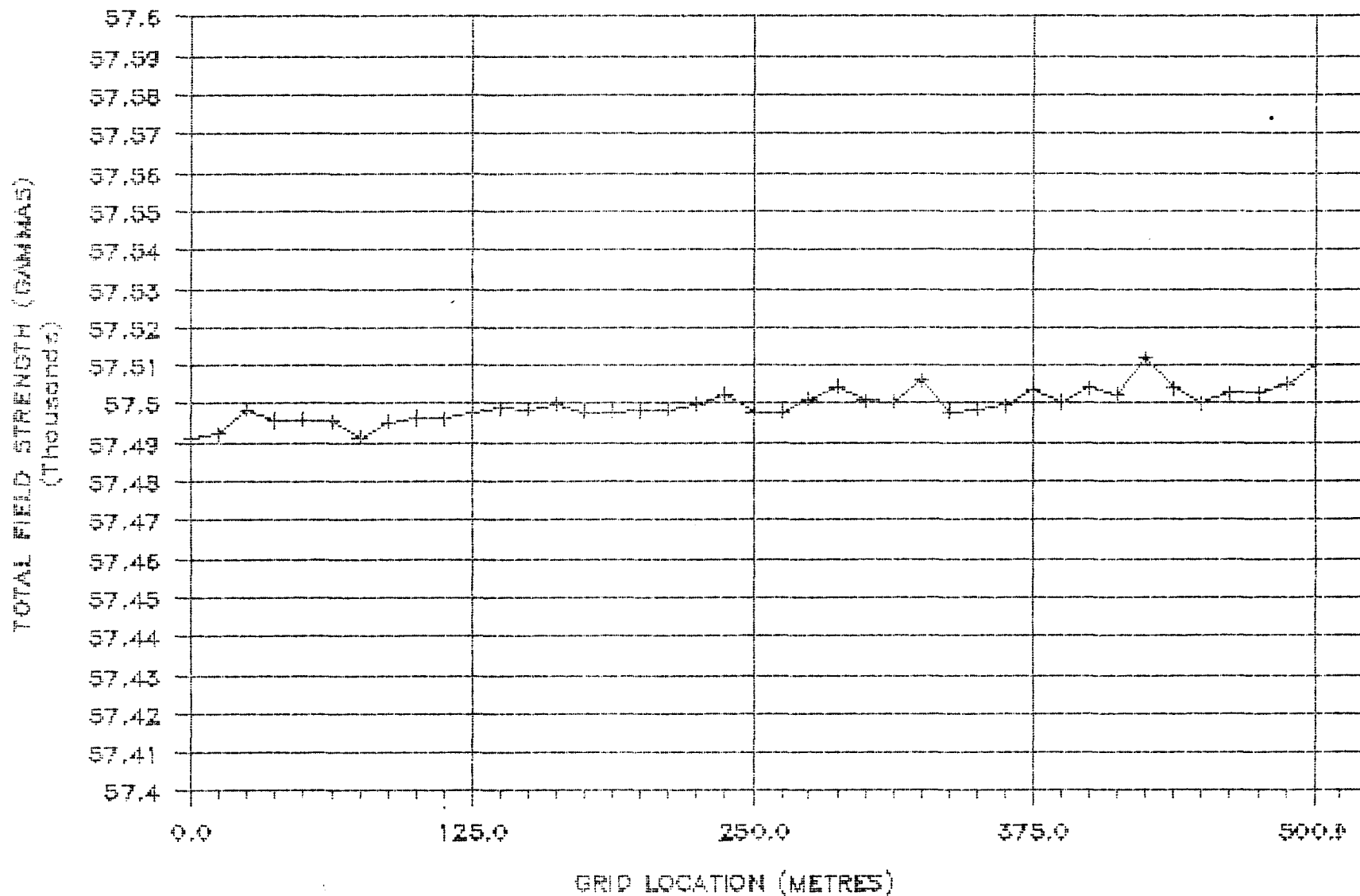
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WEST GRID 10+00N



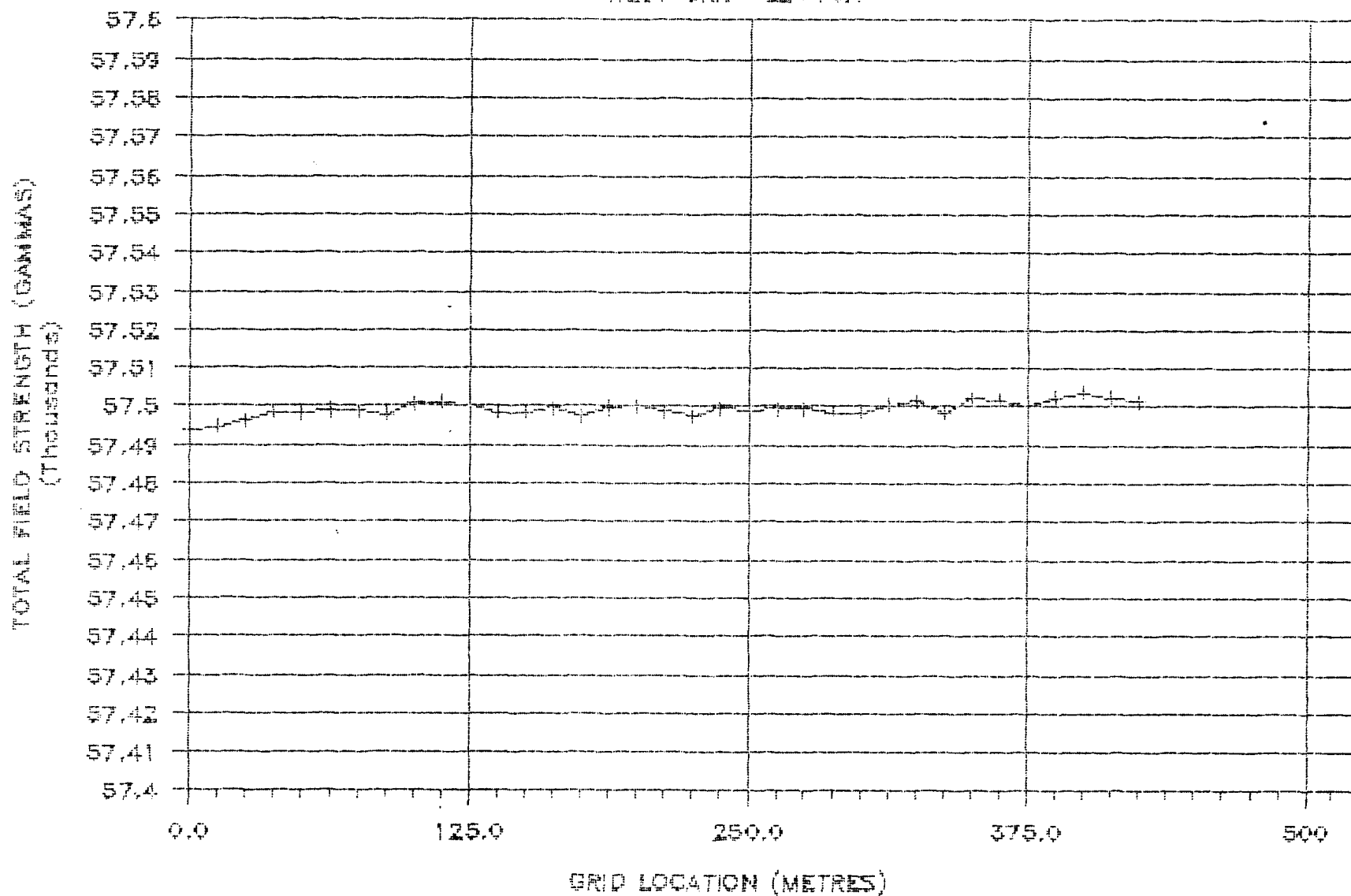
SIXTY MILE MAGNETOMETER SURVEY

WEST GRID L1+00N



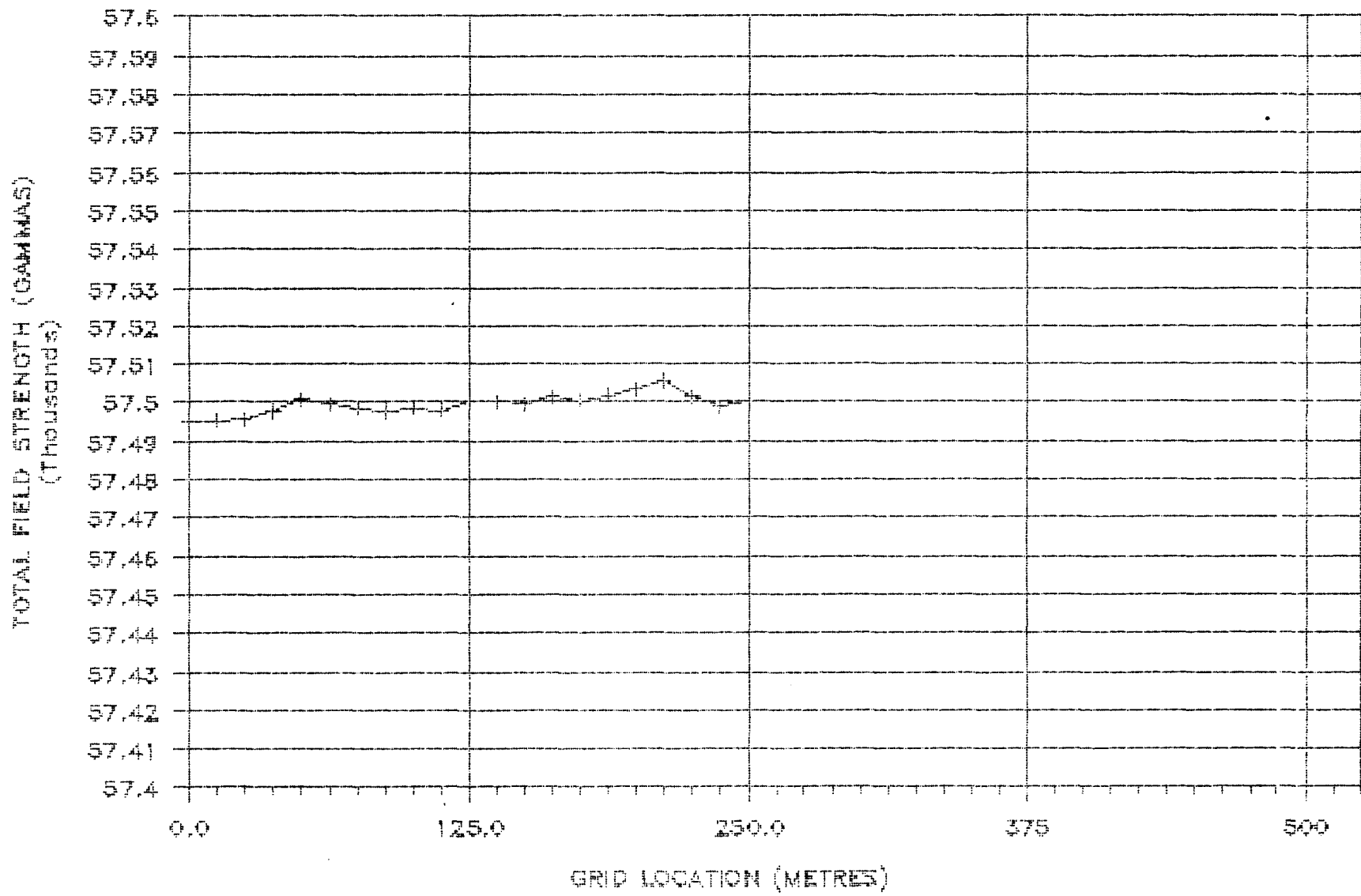
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WEST GRID L2+00N



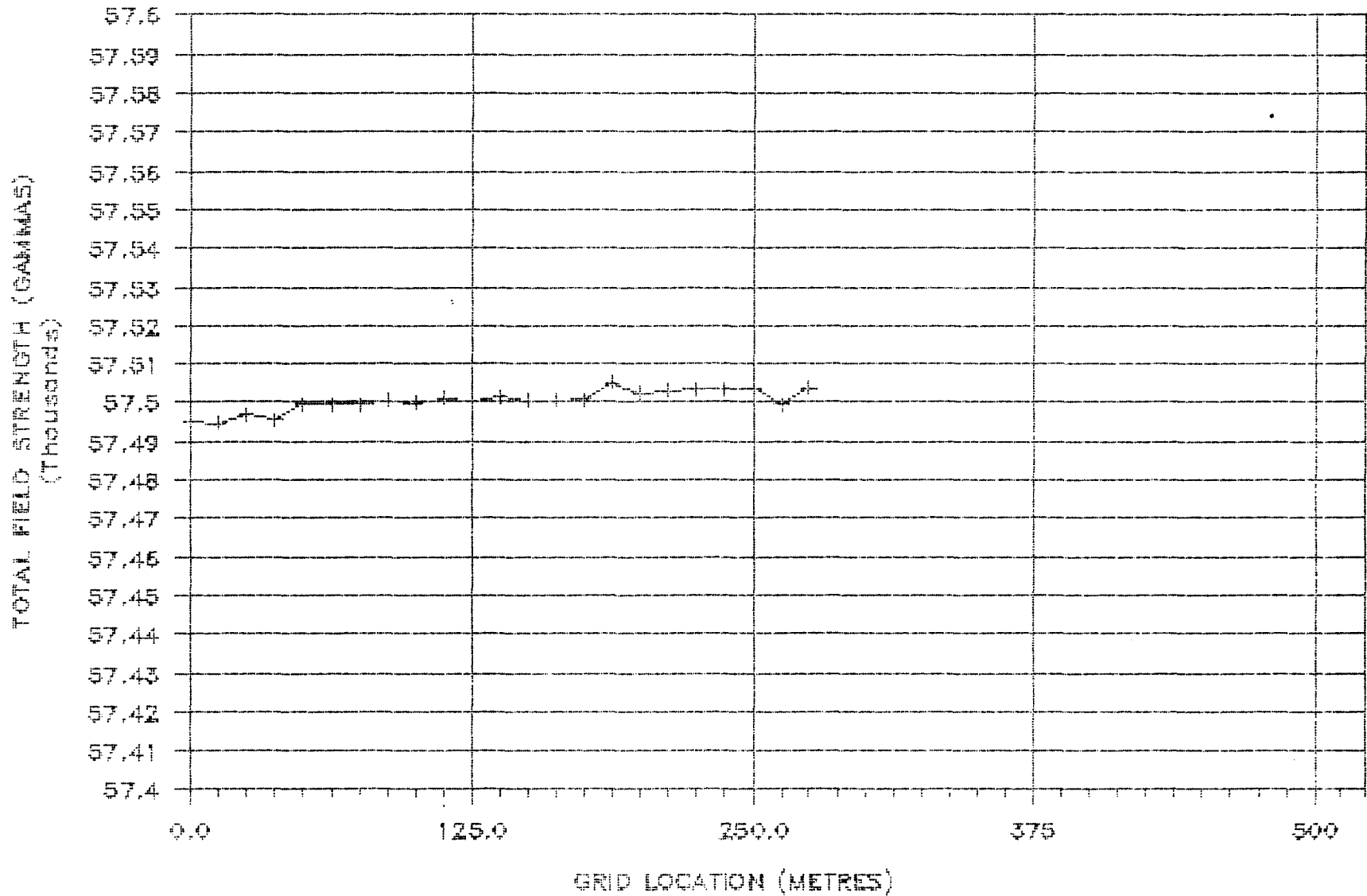
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WEST GRID L3400N



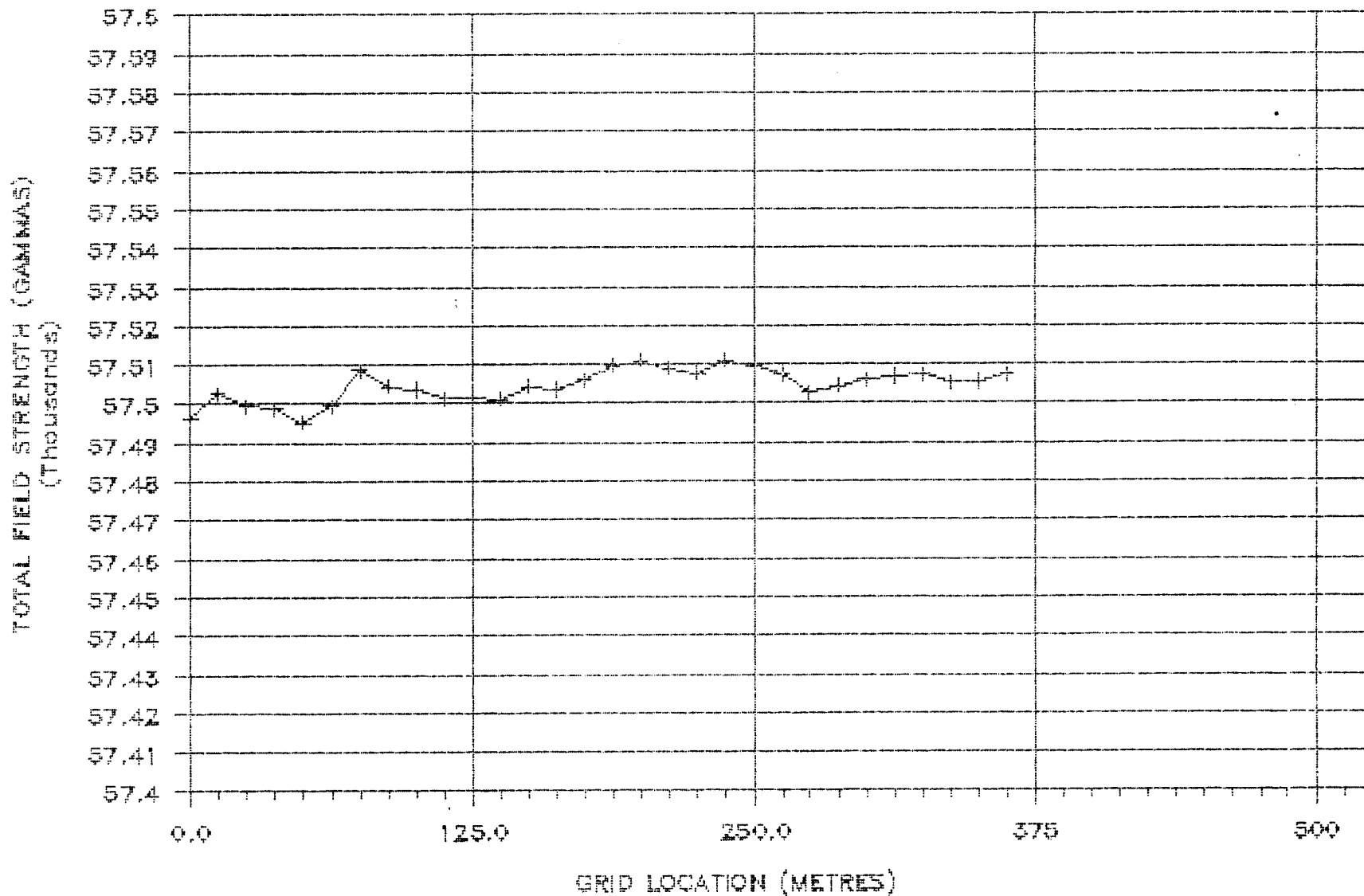
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WEST GRID L4+00N



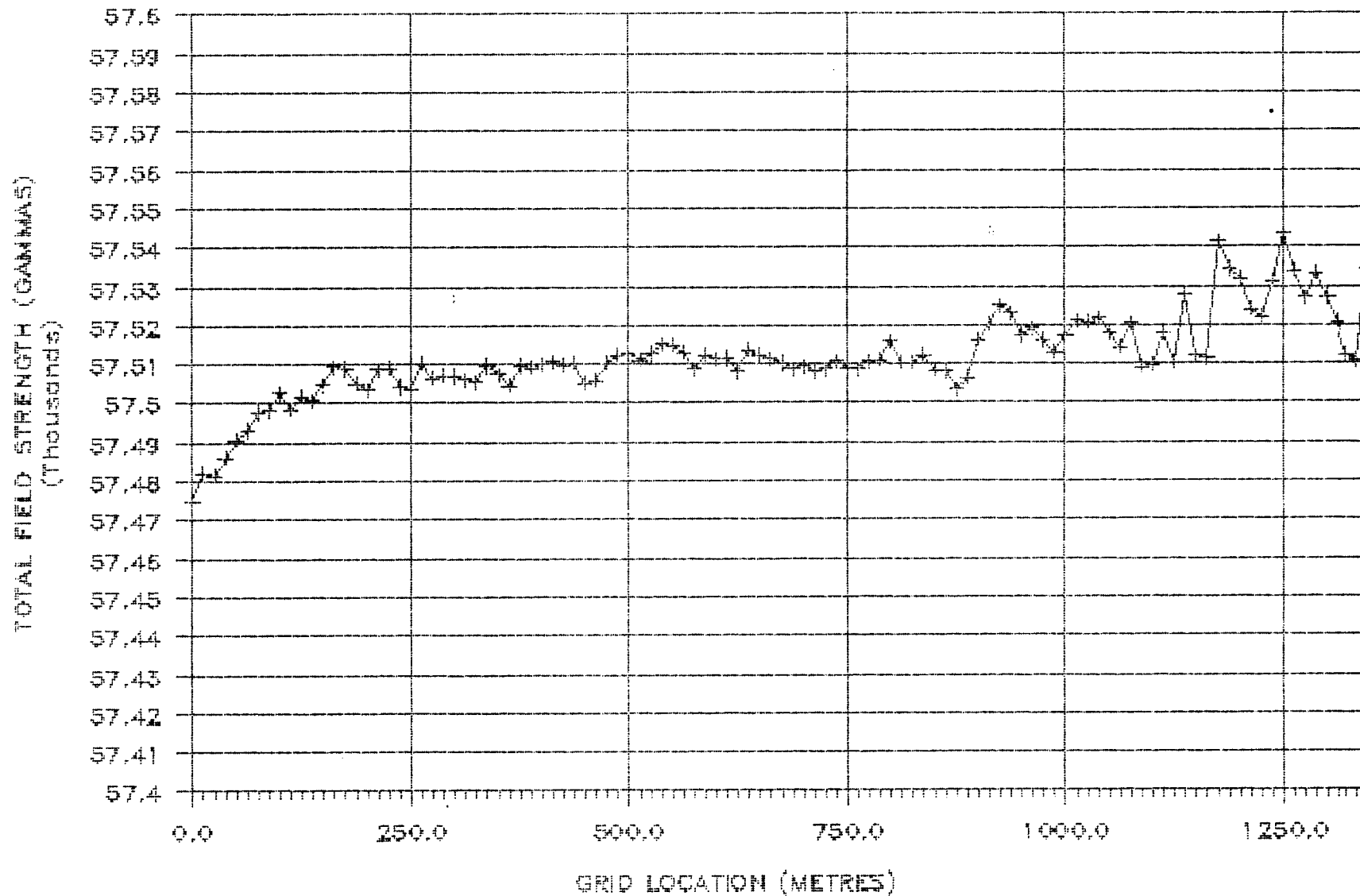
SIXTY MILE MAGNETOMETER SURVEY

WEST GRID 15+00N



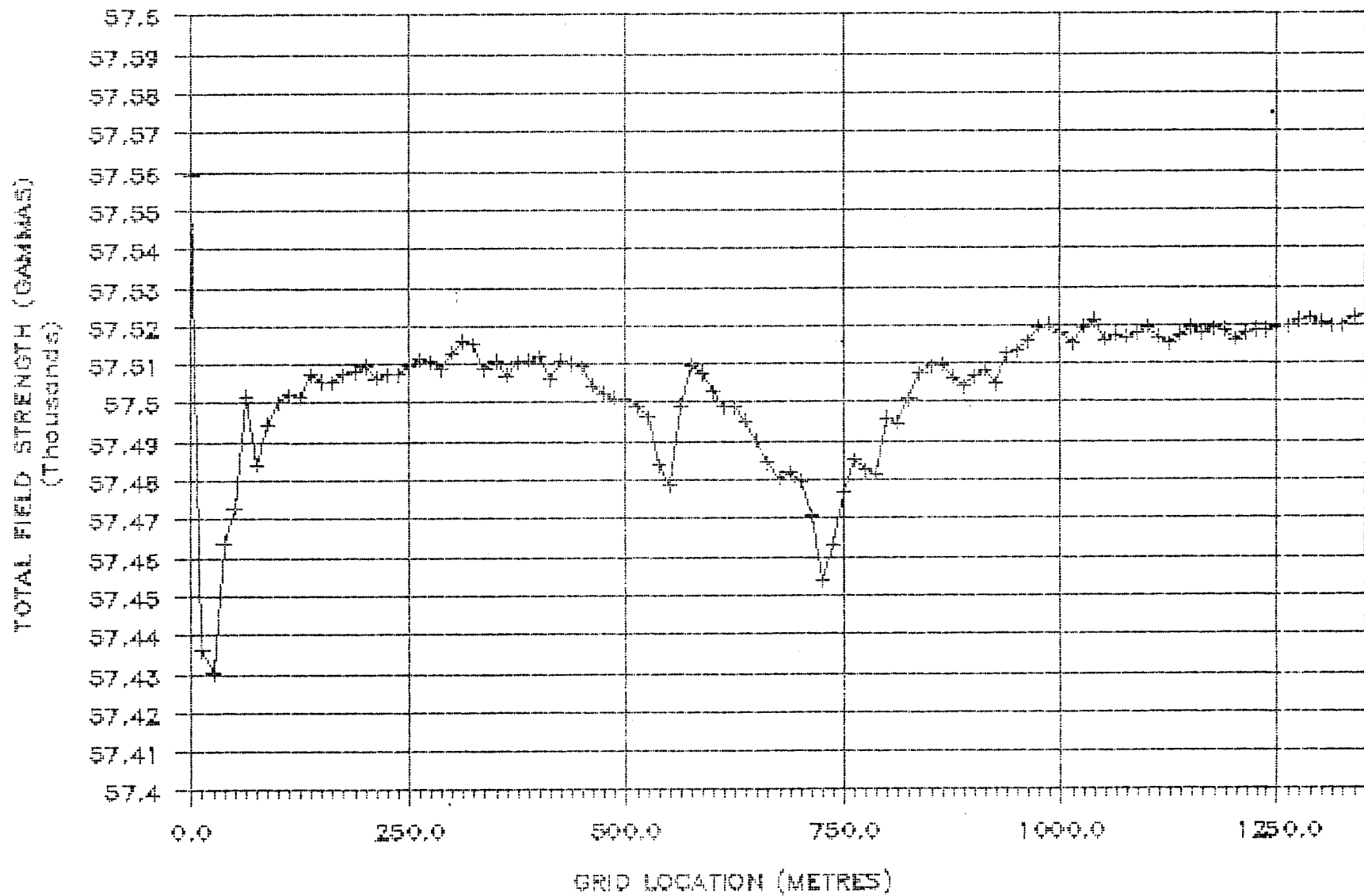
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WEST GRID L6400N



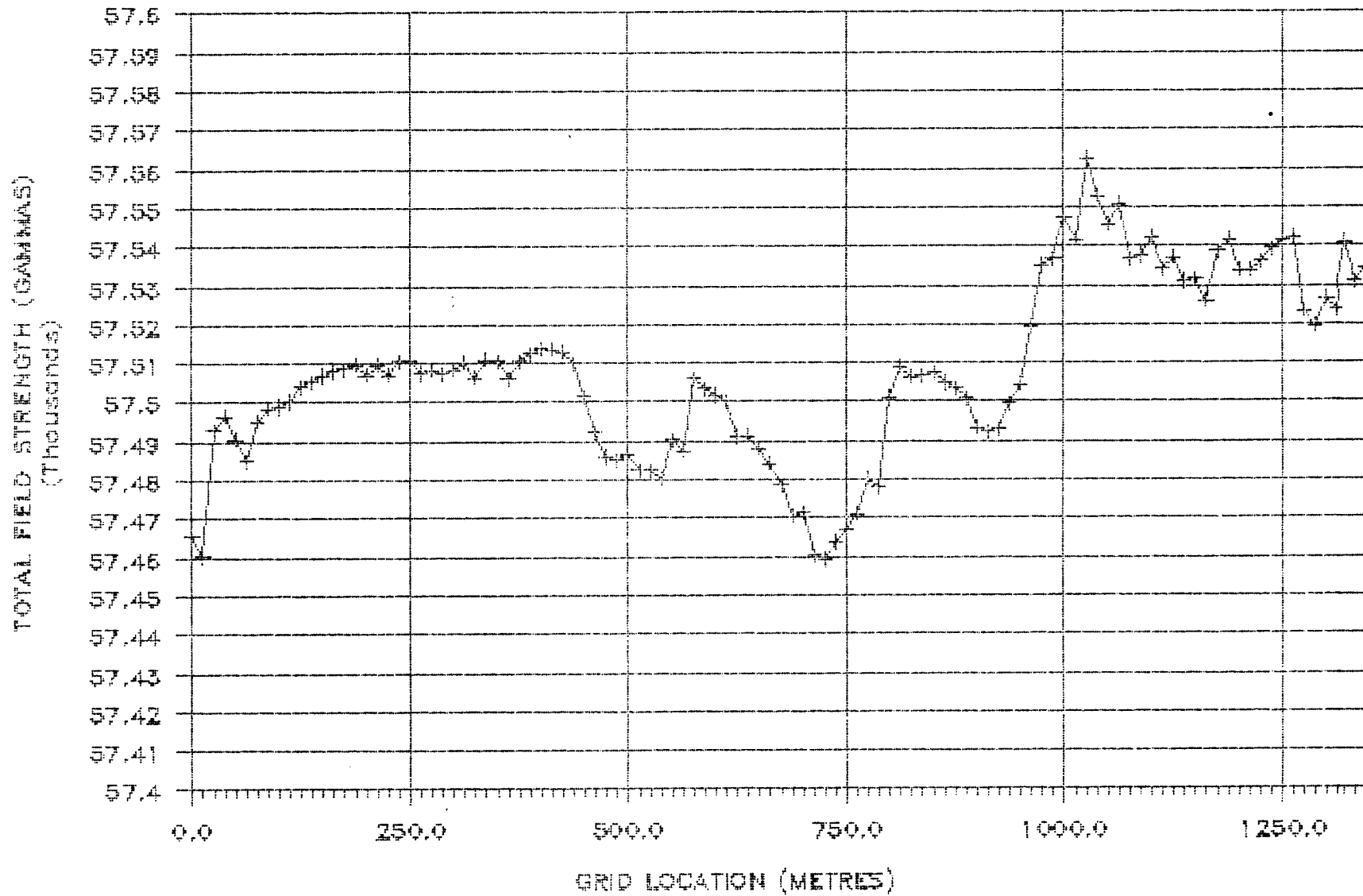
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WEST GRID L7+00N



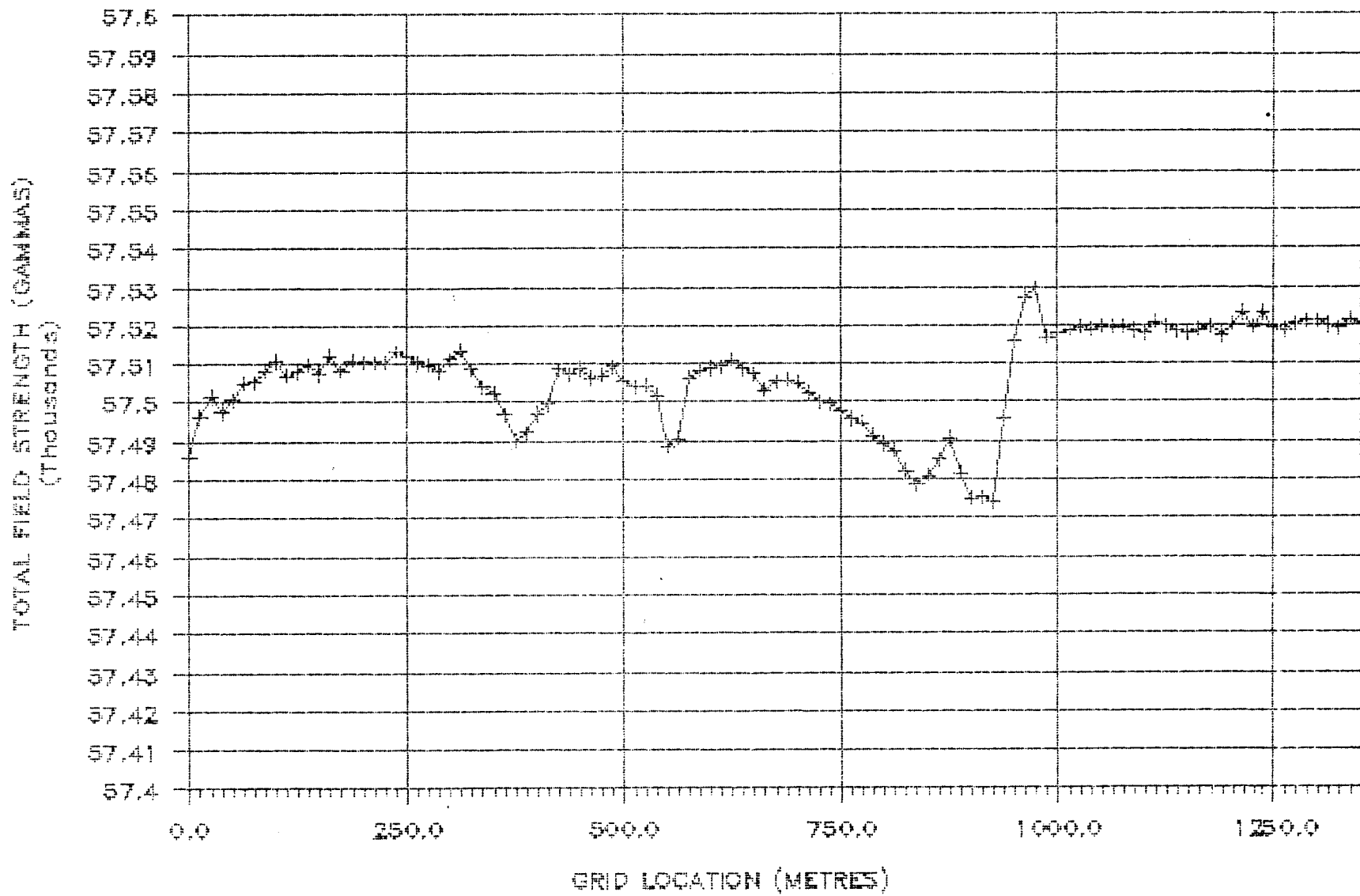
SIXTY MILE MAGNETOMETER SURVEY

WEST GRID LB+00N



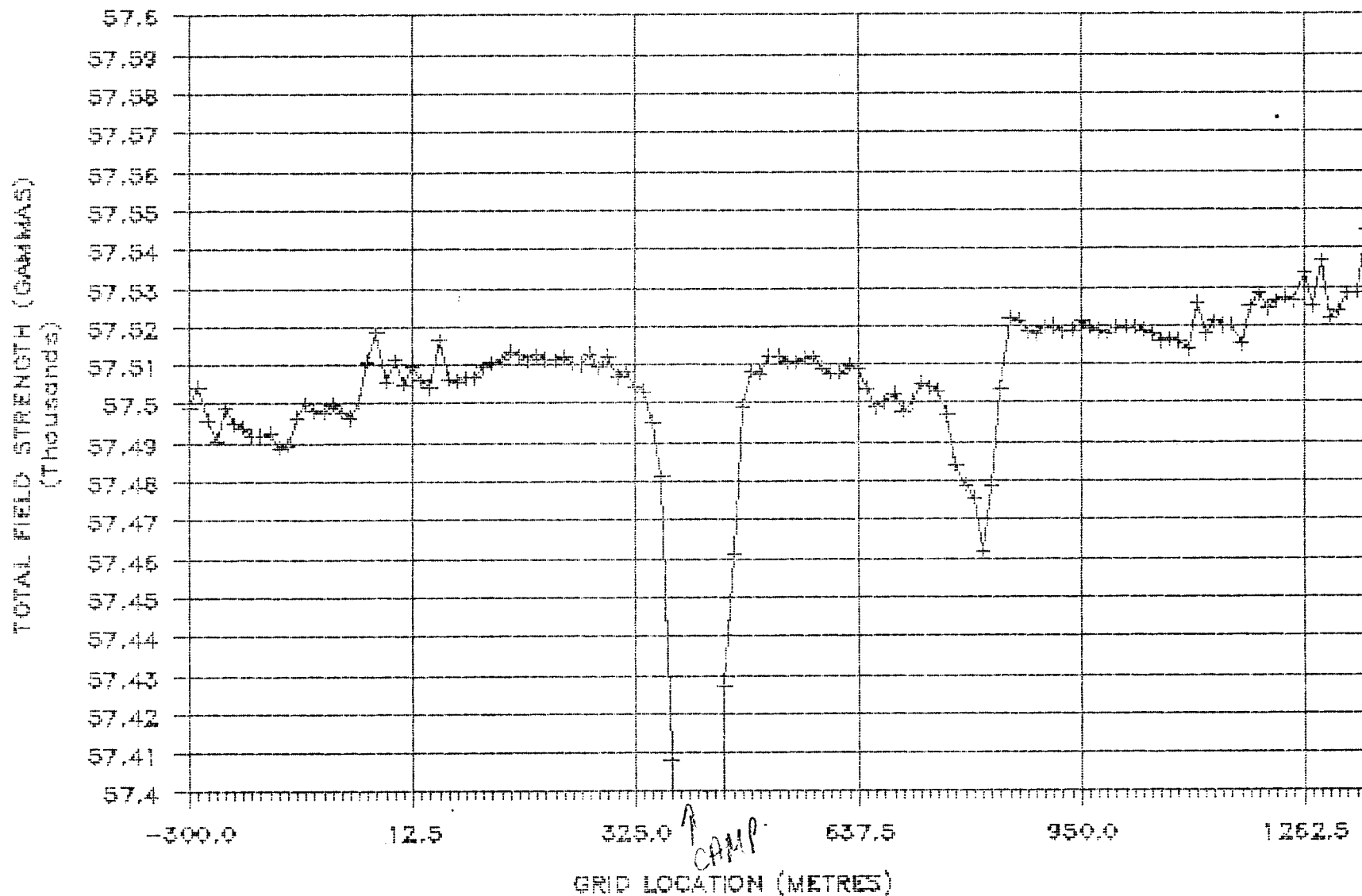
SIXTY MILE MAGNETOMETER SURVEY

WEST GRID 19+00N



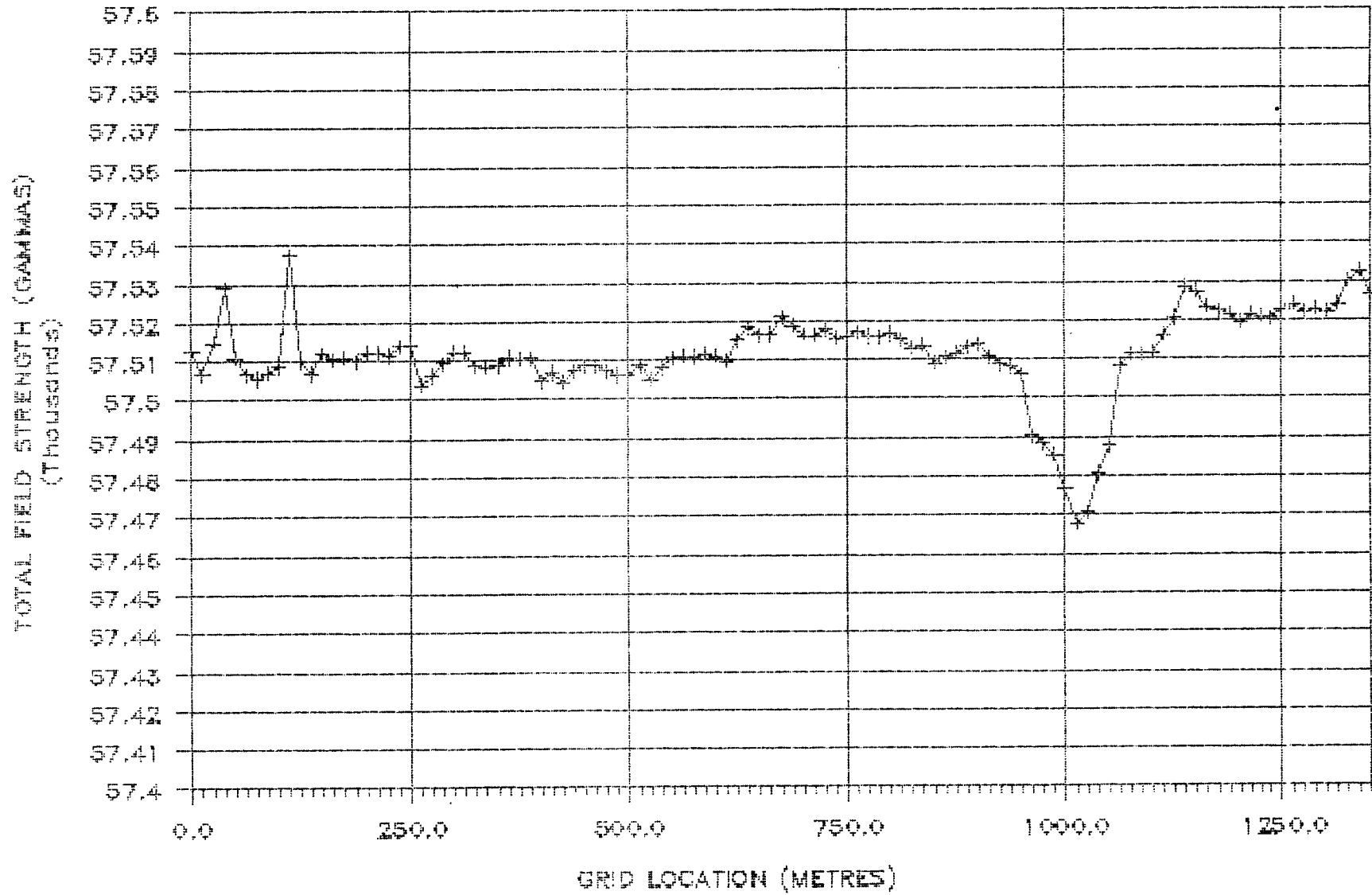
SIXTY MILE MAGNETOMETER SURVEY

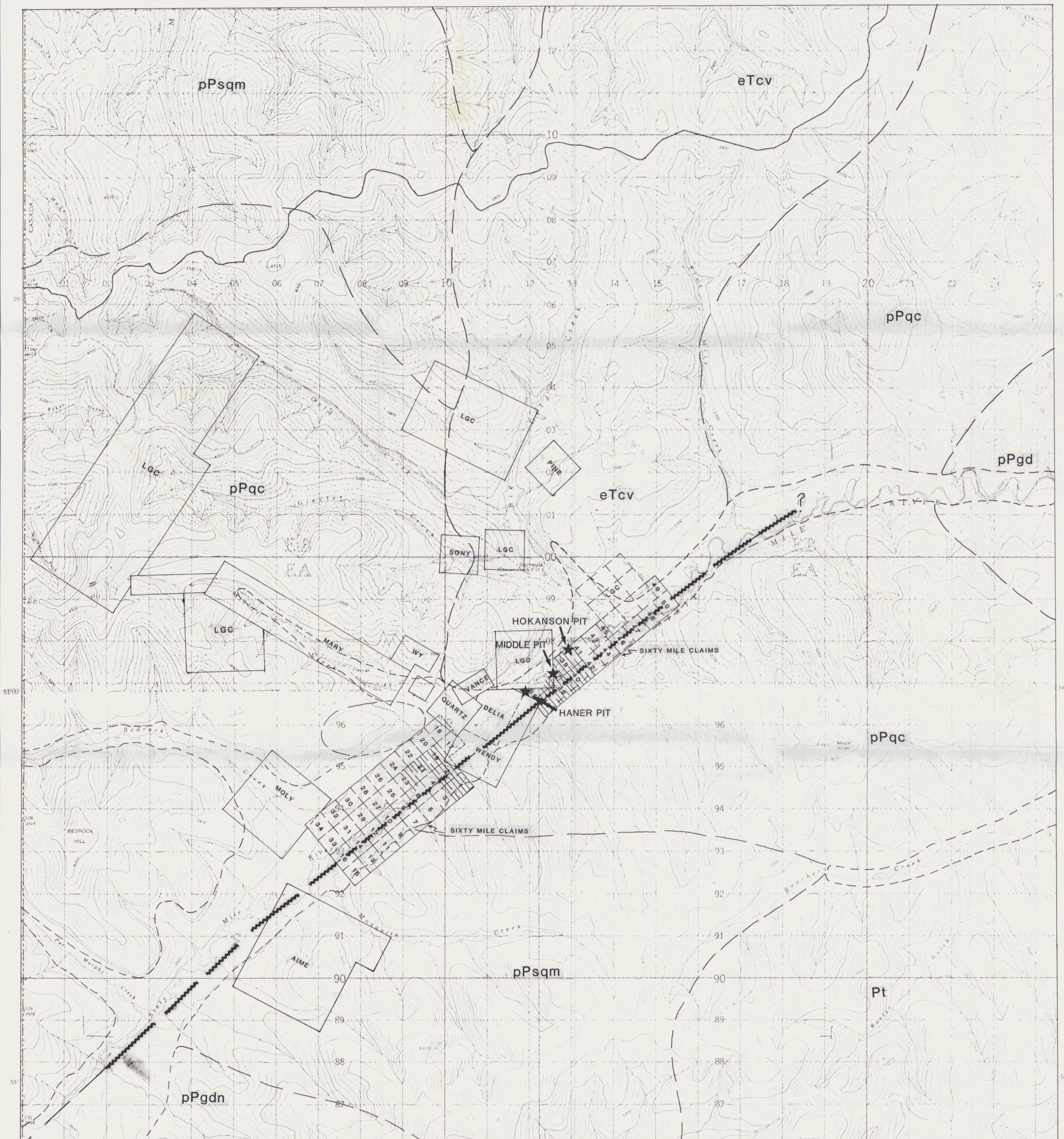
WEST GRID L10+00N



SIXTY MILE MAGNETOMETER SURVEY

WEST GRID L11+00N





LEGEND

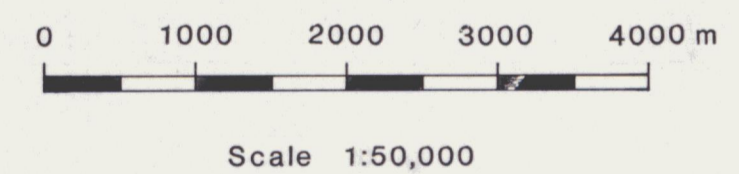
CENOZOIC

- EOCENE OR YOUNGER**
 - eTcv** CARMACKS GROUP: brown-weathering, brown, green and red andesite, basalt and flow breccia
- PERMIAN AND/OR OLDER**
 - Pt** CHERT AND METACHERT: grey-weathering pale green and purplish brown hornfelsed argillaceous chert with lesser interbedded chloritic phyllite and marble

PROTEROZOIC AND/OR PALEOZOIC

- EPgd** FOLIATED BIOTITE GRANODIORITE: foliated to gneissic biotite granodiorite; minor interfoliated phyllite, schist and amphibolite
- EPqg** NASINA QUARTZITE: black-weathering, massive, dark grey to black graphitic quartzite with lesser grey micaceous quartzite and quartz mica schist
- EPsgm** KLONDIKE SCHIST: black and orange-weathering well foliated pale green chlorite muscovite quartz schist; includes augen gneiss and amphibolite
- EPgdn** PELLY GNEISS: strongly foliated to gneissic muscovite chlorite biotite granodiorite; minor augen gneiss; includes some undifferentiated foliated muscovite quartz monzonite

FAULT



ESSO MINERALS CANADA

**SIXTYMILE AREA
Regional Geology
and
Claim Status**

To Accompany a report by J.Lowey

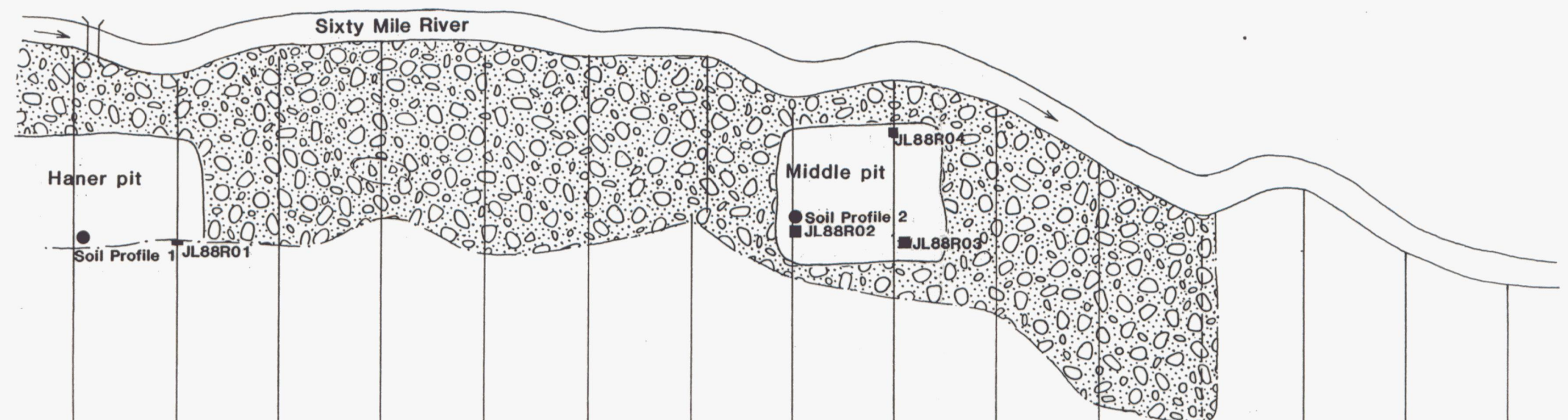
Project No. 403	Report No:
Mining Div. Dawson	NTS:115N/15, 116C/2
Survey By: JFL	Drafted By: WDM
Date: Nov. 1988	Scale: 1:50,000 Map No: 1

REVISIONS

By	Date	Appov. By

187

092677



REVISIONS

By	Date	Appov. By

- River gravels
- Soil profile.
- Lithochemical samples

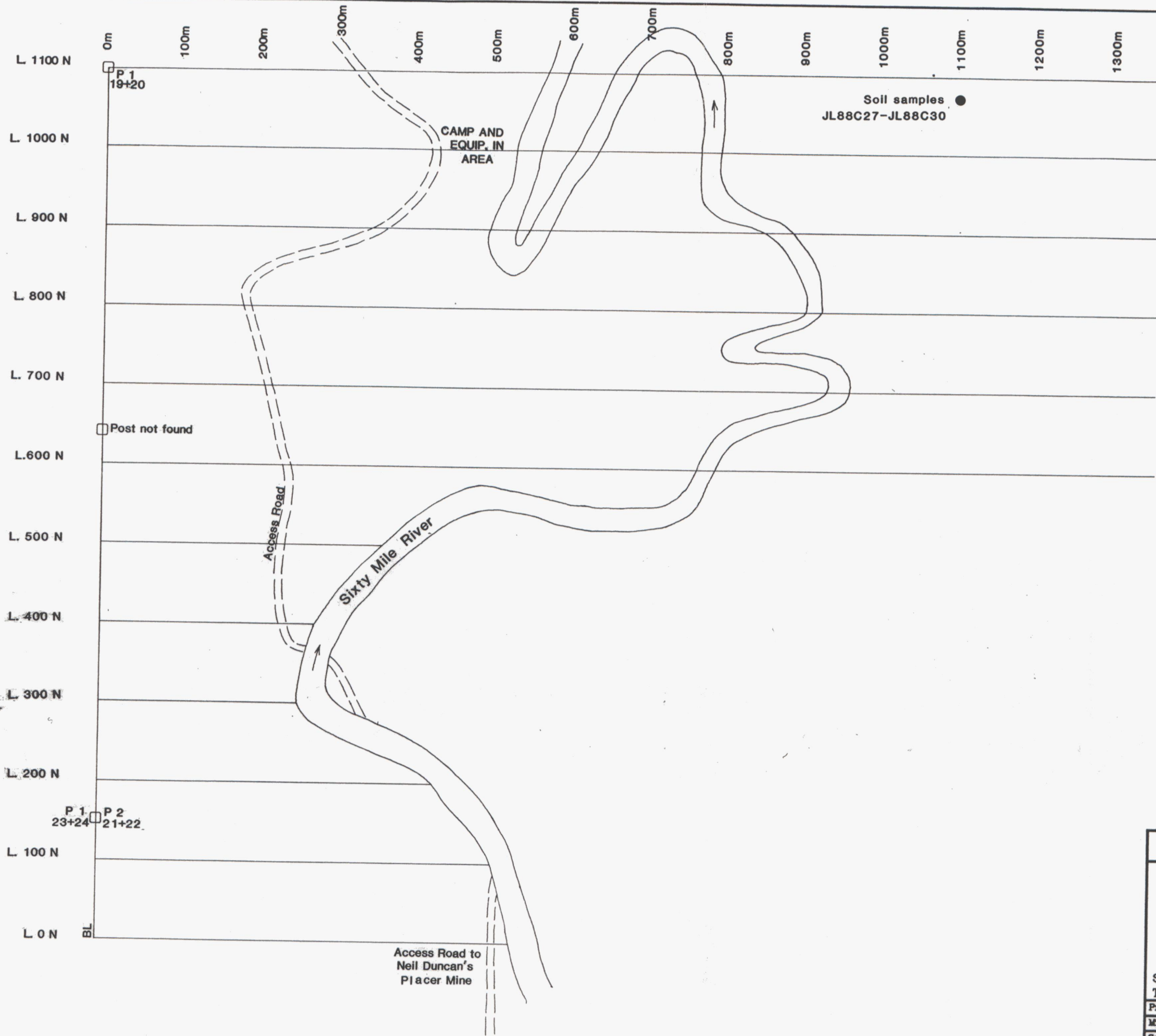
ESSO MINERALS CANADA

**SIXTY MILE CLAIMS
EAST GRID**

Scale 1:5000

To accompany a report by J. Lowey

Project No: 403	Report No:
Mining Div: Dawson	NTS: 115N/15
Survey By: Aurum	Drafted By: MJD
Date: Nov 1988	Map No: 2



REVISIONS

By	Date	Apprv. By

ESSO MINERALS CANADA

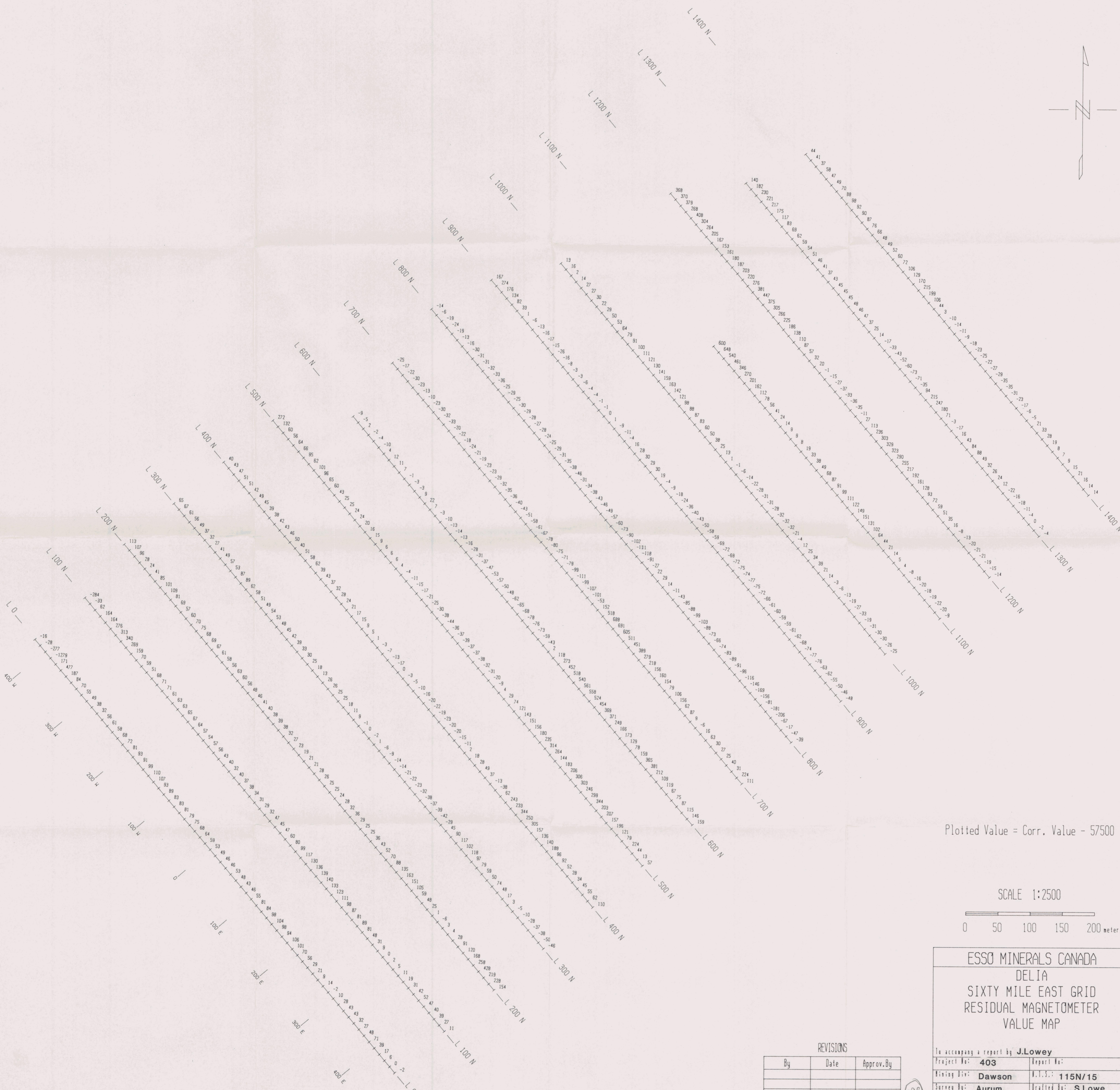
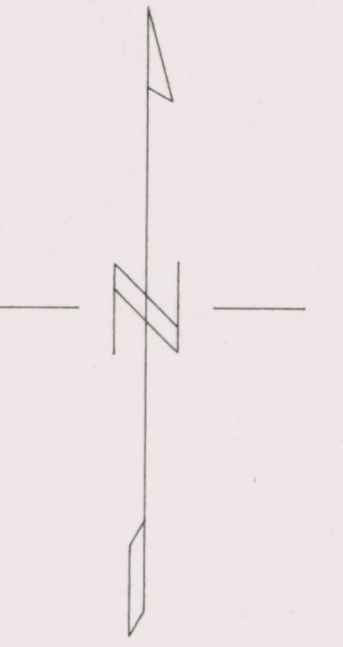
**SIXTY MILE CLAIMS
WEST GRID**

Scale 1:5000

To accompany a report by J. Lowey

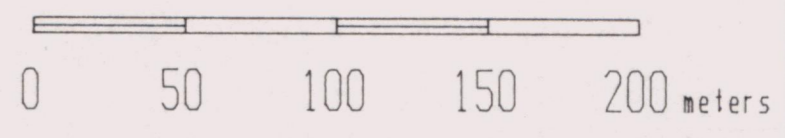
Project No: 403	Report No:
Mining Div: Dawson	NTS: 115N/15
Survey By: Aurum	Drafted By: MJD
Date: Nov 1988	Map No: 3

Access Road to
Neil Duncan's
Placer Mine



Plotted Value = Corr. Value - 57500

SCALE 1:2500



ESSO MINERALS CANADA
DELIA
SIXTY MILE EAST GRID
RESIDUAL MAGNETOMETER
VALUE MAP

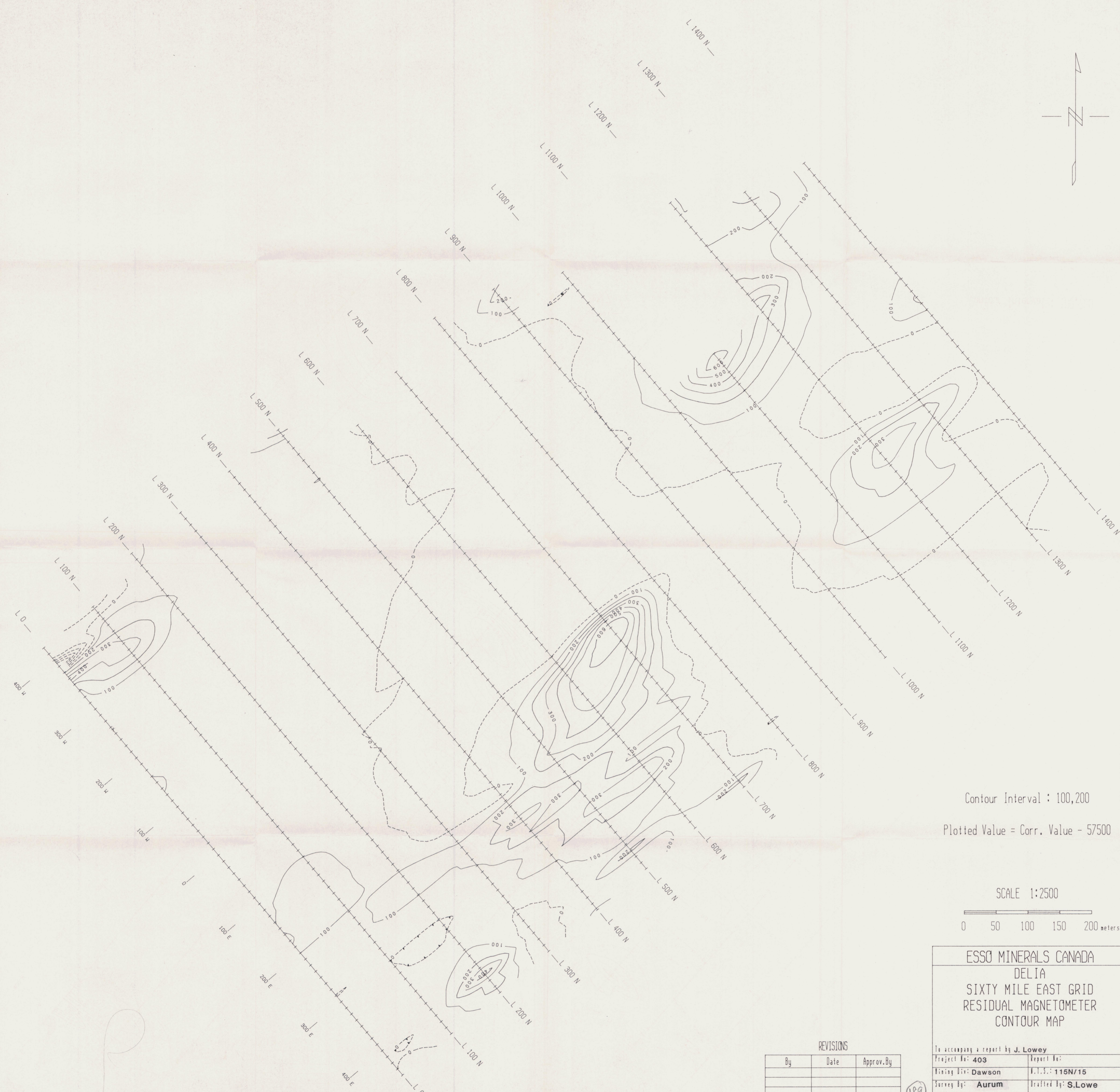
To accompany a report by **J. Lowey**

Project No: 403	Report No:
Mining Div: Dawson	M.T.S.: 115N/15
Survey By: Aurum	Drafted By: S. Lowe
Date: 31/10/88	Tap No: 4

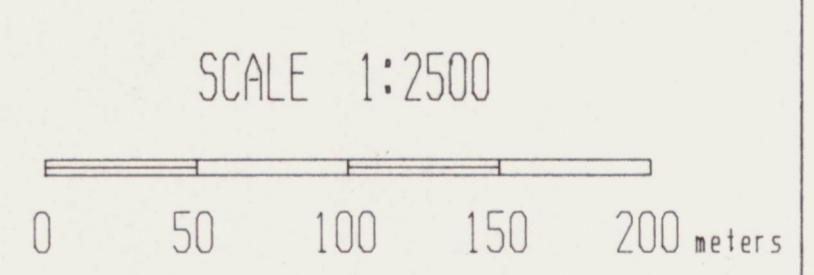
REVISIONS

By	Date	Approv. By

188



Contour Interval : 100,200
 Plotted Value = Corr. Value - 57500



ESSO MINERALS CANADA
 DELIA
 SIXTY MILE EAST GRID
 RESIDUAL MAGNETOMETER
 CONTOUR MAP

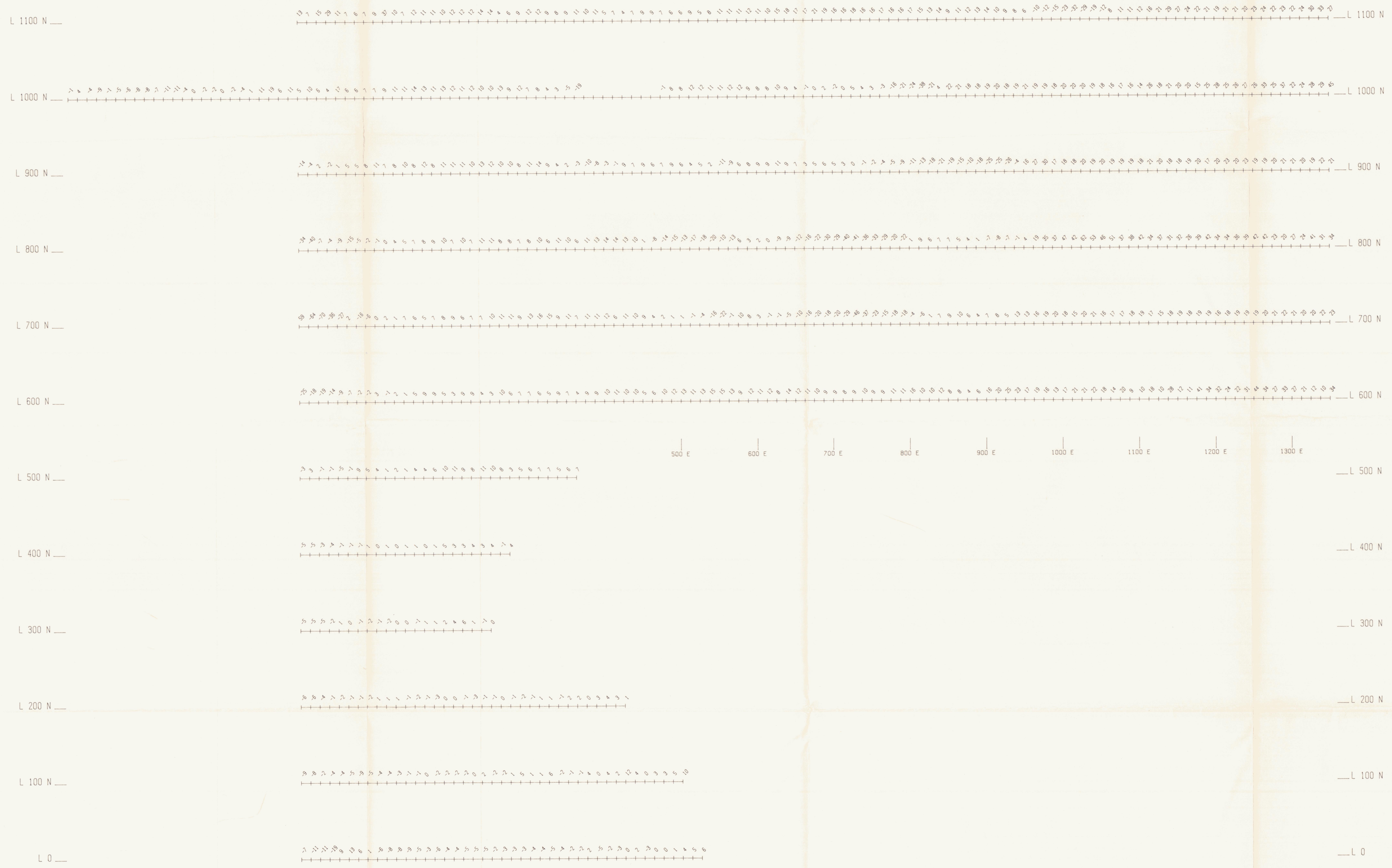
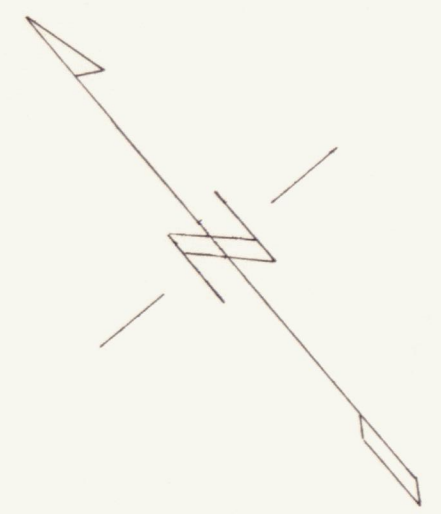
To accompany a report by J. Lowey

Project No: 403	Report No:
Mining Div: Dawson	D.L.S.: 115N/15
Surveyed By: Aurum	Plotted By: S.Lowe
Date: 31/10/88	Map No: 5

REVISIONS

By	Date	Apprv. By

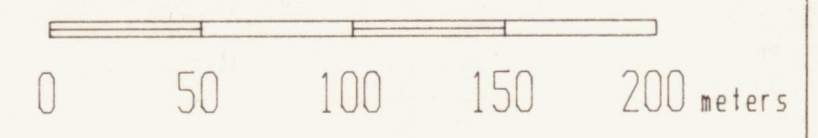
189



500 E 600 E 700 E 800 E 900 E 1000 E 1100 E 1200 E 1300 E

Plotted Value = Corr. Value - 57500

SCALE 1:2500



ESSO MINERALS CANADA
 DELIA
 SIXTY MILE WEST GRID
 RESIDUAL MAGNETOMETER
 VALUE MAP

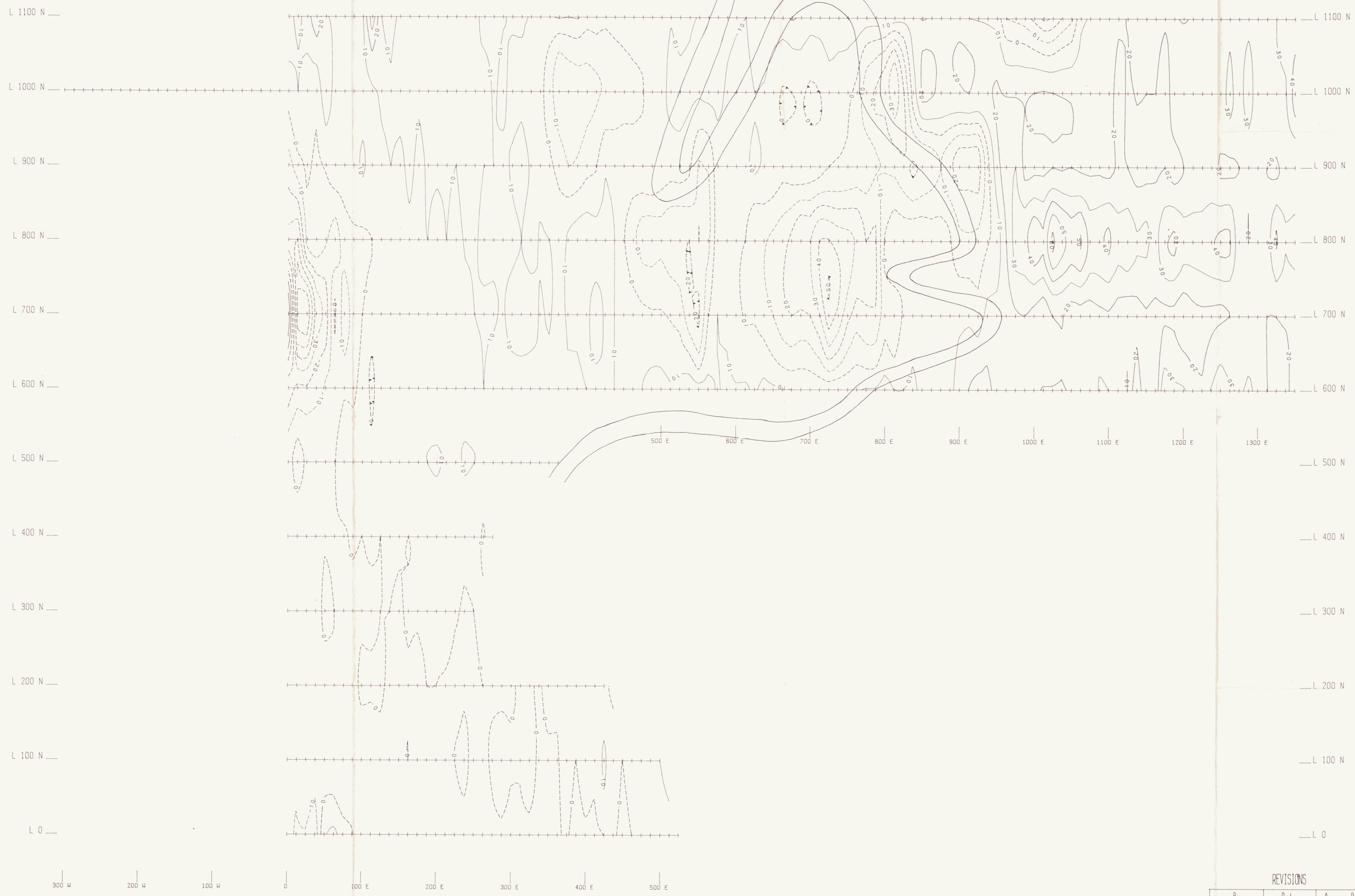
REVISIONS

By	Date	Appov. By

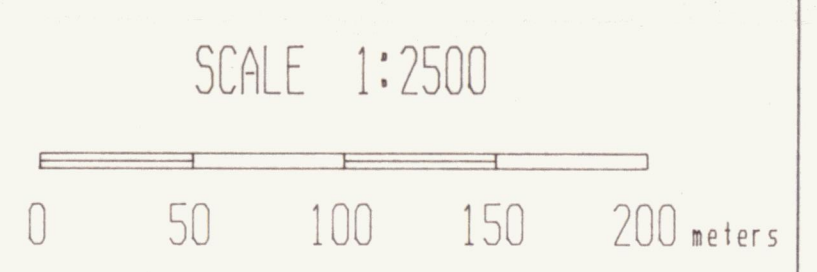
(190)

In accompany a report by J. Lowey	
Project No: 403	Report No:
Mining Div: Dawson	N.T.S.: 115N/15
Survey By: Aurum	Drafted By: MJD
Date: 31/10/88	Map No: 6

300 W 200 W 100 W 0 100 E 200 E 300 E 400 E 500 E



Contour Interval = 10, 20
 Plotted Value = Corr. Value - 57500



ESSO MINERALS CANADA
 DELIA
 SIXTY MILE WEST GRID
 RESIDUAL MAGNETOMETER
 CONTOUR MAP

To accompany a report by J. Lowey

Project No: 403	Report No:
Mining Div: Dawson	N.T.S.: 115N/15
Survey By: Aurum	Drafted By: MJD
Date: 31/10/88	Map No: 7

REVISIONS

By	Date	Approv. By

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