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NASTEK EXPLORATIONS LTD.
Reed-Robinson Property

Eby and Otto Townships
Larder Lake Mining Division
Ontario
September, 1996

James E. Tilsley & Associates Ltd.
Consulting Geologists and Engineers
5 Steeplechase Ave.
Aurora, Ontario
Canada L4G 6W5

September 30, 1996

REGISTERED PROFESSIONAL ENGINEER J.E. TILSLEY PROVINCE OF ONTARIO

J.E. Tilsley, P.Eng.

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SUMMARY AND CONCLUSIONS

Magnetic and electromagnetic surveys, prospecting, and reconnaissance geological mapping have been carried out on the Nastek Explorations Ltd. claim group located in Otto and Eby townships, Kirkland Lake area of the Larder Lake Mining Division, northeastern Ontario.

Broad areas of carbonate alteration with disseminated sulphides and quartz veining have been located in both the north and south claim blocks. These zones of alteration frequently occupy topographic lows and appear to follow structural features. This sort of alteration is commonly associated with gold mineralization in the Kirkland Lake area. All such zones warrant stripping, detailed mapping and sampling where topographic conditions permit. Diamond drilling may be required in some areas of swamp and deep overburden cover.

Gold-bearing boulders have been located in the eastern part of the north group. These are carbonate altered with disseminated sulphides and variable intensity of quartz veining. They are from about five hundred kilograms to several tonnes in weight. Three randomly selected boulders were sampled and returned 0.099, 0.495, and 1.337 grams of gold per tonne.

Additional exploration is proposed for the property. The cost of the next phase of activities is estimated to be $166,920.00.

INTRODUCTION

Nastek Explorations Ltd. has acquired a group of thirty claim units in Otto and Eby townships, Kirkland Lake area, Larder Lake Mining Division, under the terms of an option agreement.

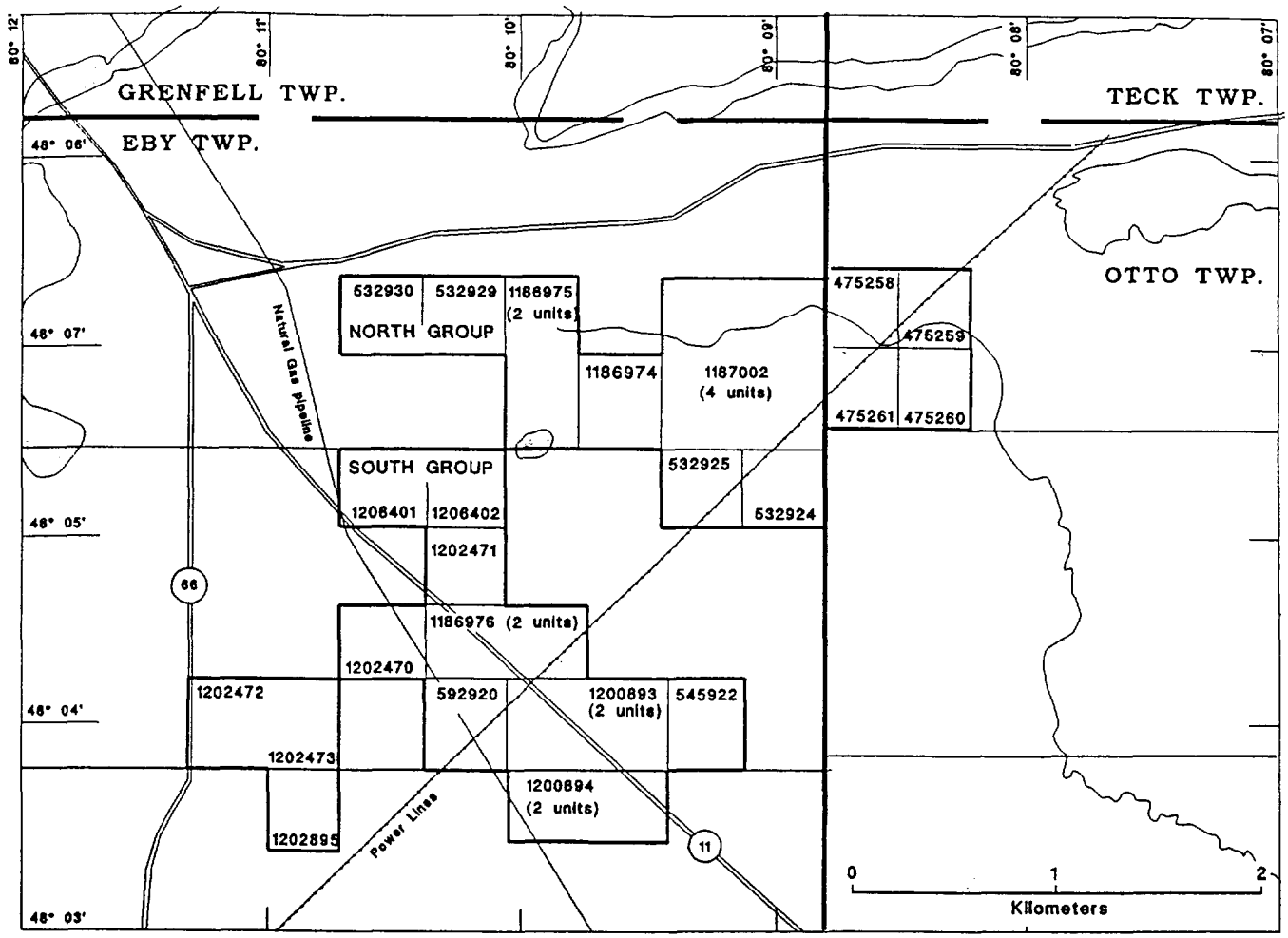
Gold mineralization in the Kirkland Lake area is commonly associated with carbonate alteration and introduction of disseminated sulphides. The Eby-Otto township claims were selected for additional exploration because of the known presence of several zones of this type of alteration.

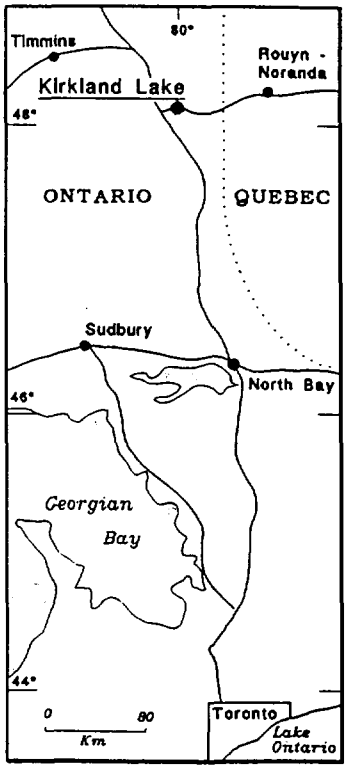
Geophysical surveying, prospecting, and reconnaissance geological mapping completed during the summer of 1996 defined sixteen areas within the claims that warrant stripping, detailed geological mapping, and sampling. The areas located by this work show strong carbonate alteration, quartz veining, and disseminated sulphide mineralization. Mineralized glacial float boulders that carry gold values have been found in the eastern part of the property.

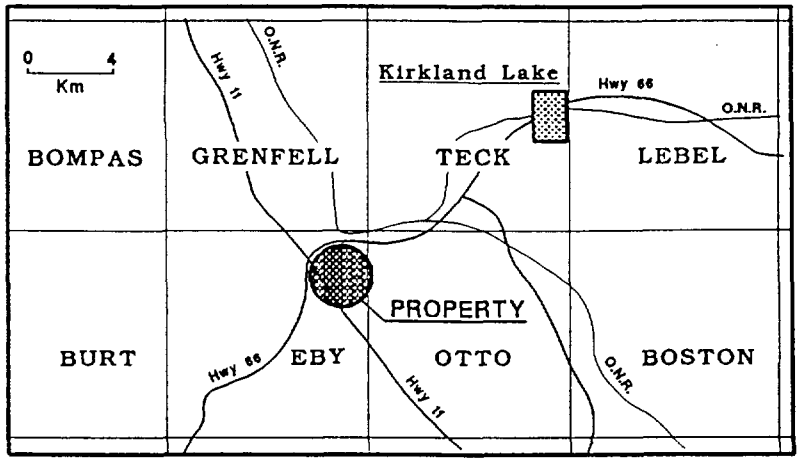
The electromagnetic surveys have also indicated conductive structures beneath overburden cover in areas of lower magnetic response that appear to be related to mineralizing processes and that justify further investigation by trenching and/or diamond drilling.

Exploration data are reviewed and recommendations for additional exploration work are presented.

JAMES E. TILSLEY & ASSOCIATES LTD.





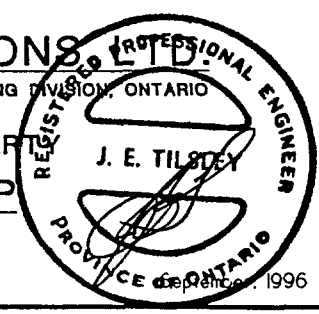


NASTEK EXPLORATIONS LTD.

EBY AND OTTO TOWNSHIPS - LARDER LAKE MINING DIVISION, ONTARIO

REED-ROBINSON PROPERTY

LOCATION MAP



September, 1996

LOCATION AND ACCESS

The claims are located in northwestern Otto and northeastern Eby townships in the Larder Lake Mining Division, Ontario, about 13 kilometers southwest of the town of Kirkland Lake. Kirkland Lake is situated on Highway No. 66, sixteen kilometers east of Highway No. 11, and about 50 kilometers west of the Ontario - Quebec border, 250 kilometers north of the city of North Bay via Highway No. 11 (Trans-Canada Highway, north route) to Cochrane. The property lies in Eby and Otto townships, the north group just south of Highway No. 66 before its junction with Highway No. 11 in Eby Township. The south group is cut by Highway No. 11 in lot 3, concession V and lot 2, concession IV, Eby Township.

The approximate co-ordinates of the claim group are:

48° 05' 00" N; 80° 10' 00" W:

The property can be reached from Kirkland Lake by traveling west on Highway No. 66 about thirteen kilometers toward the junction with Highway No. 11. There are several access trails to the north group extending south from Highway No. 66. The main Kirkland Lake hydro-electric transmission line cuts Highway No. 66 just to the northwest of Vigrass Lake and runs through the Otto Township claims and runs more or less directly southwest to Highway No. 11 in Lot 2, Concession V, Eby Township. The westernmost claim of the south group is bounded by Highway No. 66, south of its junction with Highway No. 11 in Lot 4, Concession V, Eby Township.

Kirkland Lake has twice daily feeder-line air service from Toronto, transit time ranging from 2h15m to over 5h. In addition, there is regular scheduled airline service to North Bay, and to Timmins, which lies 140 kilometers west of Kirkland Lake via highways No. 11 and No. 101, and to Rouyn-Noranda airport some 61 kilometers east of Kirkland Lake.

The Ontario Northland Railway line passes through the northeastern corner of Otto Township.

CLIMATE AND TOPOGRAPHY

The area has warm summers and cool, relatively dry winters. Summer maximum temperatures in the 30°C range are not uncommon during July and August. Winter minimums of -40°C are frequent during the months of December, January, and February.

Total annual snowfall amounts to between 2.4 and 2.7 meters. Snow cover is usual from mid-November through mid-April or early May. Late winter accumulations of snow may approach 1.2m to 1.5m. Total annual precipitation is in the order of 860mm, with slightly over 2,540mm of snow (equivalent to 250mm of rain), and ~600mm falling as rain. The wettest months are September and June, averaging 102mm and 98mm of precipitation, respectively. The driest month is April with an average total precipitation of just less than 50mm.

The topographic relief on the claims is not great, low hummocks and hills rise no more than 15m above the base level of approximately 335m above sea level.

There is less than 40% outcrop within the claims. The intervening areas between outcrop are usually swampy with thick low shrubs and cedars. Drainage is poorly developed with only one intermittent stream, a right bank tributary of the Black River, large enough to be traced within the claims. The Black River drains eventually into the Abitibi River which flows north to James Bay.

VEGETATION

The property supports growth of typical northern Ontario shrubs, bushes, and trees. The low-lying wet areas have alders, willows, cedar and black spruce, while better drained areas (till-covered subcrop) support growth of spruce, poplar, and occasional birch. Parts of the north group have dense cover of young second growth balsam fir which has developed after severe spruce budworm damage about ten years ago. This area has both standing 'widowmaker' and fallen 'kneebreaker' decaying tree trunks which make traversing and working in this section of the property both difficult and hazardous. Open areas along the natural gas pipeline and hydroelectric lines are grassy with small trees and shrubs present as a result of required continuing maintenance of these rights of way.

LOCAL RESOURCES

Mining equipment, supplies, and services are available in Kirkland Lake, Cobalt, and Rouyn-Noranda. There are two well established and reputable assaying offices in Kirkland Lake-Swastika. Skilled mining labour is readily available in the immediate area.

Kirkland Lake has good general medical services and a Regional Hospital. Hardware, groceries, and automotive services can be obtained easily in the area. Light industrial work and heavy equipment maintenance and repair are also possible, with additional support at North Bay, Timmins, and Sudbury, in Ontario, and in Rouyn-Noranda, Quebec.

An electrical power transmission line crosses the property and a gas pipeline passes through the claims more or less parallel to Highway No. 11.

PROPERTY

The property consists of thirty contiguous unpatented mineral claims. Twenty-six are located in concessions IV, V, VI, lots one through four, Eby Township, and four claims in the south half of lot 12, Otto Township.

The north group includes eleven claims with a total of fifteen 16ha (40 English acres) units, as listed below.

Claim No.	Units	Township	Expiry Date
475258	1	Otto	June 1, 2012 Lease
475259	1	Otto	June 1, 2012 Lease
475260	1	Otto	June 1, 2012 Lease
475261	1	Otto	June 1, 2012 Lease
532924	1	Eby	December 1, 2011 Lease
532925	1	Eby	December 1, 2011 Lease
532929	1	Eby	December 1, 2011 Lease

Claim No.	Units	Township	Expiry Date
532930	1	Eby	December 1, 2011 Lease
1186974	1	Eby	January 6, 2001
1186975	2	Eby	January 6, 2001
1187002	4	Eby	January 12, 1998

The south group is made up of twelve claims with a total of fifteen 16ha units.

532920	1	Eby	December 1, 2011
545992	1	Eby	December 1, 2011
1186976	2	Eby	January 12, 1998
1200893	2	Eby	January 12, 1998
1206297	2	Eby	January 14, 1999
1202470	1	Eby	June 27, 1997
1202471	1	Eby	June 27, 1997
1202472	1	Eby	September 21, 1997
1202473	1	Eby	September 21, 1997
1200895	1	Eby	September 21, 1997
1206401	1	Eby	April 16, 1998
1206402	1	Eby	April 16, 1998

HISTORY

The Otto and Eby township claims of Nastek Explorations Ltd. lie about 12 to 15 kilometers west southwest of Kirkland Lake. Gold was discovered at Swastika in 1906, and in Kirkland Lake proper during 1911 by W. H. Wright at the site of what became the Wright-Hargreaves Mine ten years later, in 1921. Production from the "Main Break" structure began first at the Toburn Mine, in 1913. The only gold producer in Kirkland Lake at the present time is the Macassa Mine which began treating ore in October, 1933 and has produced over 2.3 million troy ounces of gold. During the operating life of the Kirkland Lake "camp" over 23 000 000 ounces of gold have been recovered.

There has been prospecting within the area included in the claims throughout the years since first discovery of gold in the area about ninety years ago. The assessment files in the Kirkland Lake office of the Mining Recorder for the Larder Lake Mining Division give few details of work before about 1980, although there are occasional much older overgrown pits and trenches, and one large trench on a quartz vein in claim 1187002. A map in the assessment files of the Kirkland Lake Resident Geologist (KL-2391, Sylvanite Gold Mines Ltd.) shows two shear zones in claim 1100894 were trenched and sampled. These shears are indicated to be 10 to 12 feet, and five feet wide, respectively. Sampling is reported to have returned a value of 0.64 ounces of gold per ton from a five foot sample section from the wider zone. There are no sampling data for the narrower shear zone.

In 1984 James Reed put down ten short diamond drill holes to test a quartz vein on the boundary of claims 475258 and 1187002. 510.5 feet were drilled in claim 1187002 and 350 feet completed in claim 475258. One additional 307 foot diamond drill hole was located in the southeast corner of claim 475260 and put down to test a strong electromagnetic conductor which was found to be caused by graphite. Magnetic and VLF-EM surveying was also recorded on the claims of the north group.

Butte Canyon Resources carried out geological mapping, litho-geochemical sampling, magnetic, and electromagnetic surveys on a total of six claim units that now lie within the south claim group. Three short diamond drill holes (total 320 feet) tested electromagnetic anomalies in claim 1100893 and claim 1100894. All proved to be caused by graphite.

The 1996 program included line cutting, Max-Min electromagnetic surveying, magnetic surveying, prospecting, and reconnaissance geological mapping. Sixteen areas of carbonate alteration, disseminated sulphides, and quartz veining have been defined for stripping, detailed mapping and sampling. Several zones of low magnetic response with associated electromagnetic features warrant more detailed investigation, and perhaps including diamond drilling in those areas where drainage and overburden conditions preclude stripping or trenching.

GENERAL GEOLOGY

The area around Kirkland Lake is underlain by volcanic, sedimentary, and intrusive rocks of the Abitibi Greenstone Belt. The Abitibi Greenstone Belt is the largest such belt in the Canadian Precambrian Shield. It extends for a distance of about 800 kilometers northeasterly through northeastern Ontario and into western Quebec. The belt has a width of approximately 250 miles. The volcanic and related intrusive rocks of this belt are of Archean age. Dating of volcanic units from the belt in the vicinity of Kirkland Lake give apparent absolute ages of 2703 ±2 Ma to 2765 ±42 Ma (Jensen & Langford, 1985, pp 13).

The volcanic rocks of the Abitibi Greenstone Belt were deposited during cycles of volcanism associated with sedimentation and emplacement of plutons. Jensen (1979) suggests that each cycle began with extrusion of komatiitic material followed by tholeiitic, calc-alkalic, and finally, alkalic flows and pyroclastics. Near Kirkland Lake, rocks of the older cycles are found principally in the outer parts of the synclinorium near the limits of the Round Lake Batholith and the Lake Abitibi Batholith. These rocks are referred to as the Lower Supergroup (Jensen, 1979; Jensen and Langford, 1985).

The Upper Supergroup is comprised of komatiitic lavas (Larder Lake Group), followed by tholeiitic rocks of the Kinojevis Group and calc-alkalic rocks of the Blake River Group (Jensen & Langford, op. cit.). Alkalic volcanic rocks of the Timiskaming Group overlie both the Blake River Group and the Kinojevis Group. Each group includes volcanic, sedimentary, and intrusive rocks.

The stratigraphic succession is summarized by Jensen & Langford (1985, op. cit. pp 40), and reproduced as Table 1.

The largest structures in the Kirkland Lake area are the regional synclinal fold, the axis of which trends west-northwest and passes about 16 miles north of the town, and the Destor - Porcupine Fault Zone and the Kirkland Lake - Larder Lake Fault Zone. They are located on the north and south limbs of the syncline respectively.

TABLE 1.

The stratigraphic succession for the Kirkland Lake section of the Abitibi Greenstone Belt reproduced below is taken from Jensen and Langford (1985), OGS MP 123, page 40.

STRATIGRAPHIC SUCCESSION OF THE KIRKLAND LAKE AREA.

SOUTH LIMB OF SYNCLINORIUM

Upper Supergroup

Timiskaming Group
- Volcanic rocks: Mafic, intermediate, felsic trachyte, and K-rich dacite and rhyolite flows and tuffs.
- Sedimentary rocks: Fluvial conglomerate, sandstone, and argillite.
- Intrusions: Stocks and dikes of syenodiorite, syenite, quartz monzonite, and lamprophyre.

Blake River Group
- Volcanic rocks: Calc-alkalic basalt, andesite dacite and rhyolite flows and tuffs.
- Sedimentary rocks: Volcaniclastic slump deposits.
- Intrusion: Stocks and dikes of gabbro, quartz gabbro, hornblende gabbro, diorite, quartz diorite, and subvolcanic rhyolite domes.

Kinojevis Group
- Volcanic rocks: Mg-rich and Fe-rich tholeiitic basalts, and tholeiitic andesite, dacite and rhyolite flows and tuffs.
- Sedimentary rocks: Thin interflow argillite and chert.
- Intrusions: Sills of Mg-rich and Fe-rich gabbro.

Larder Lake Group
- Volcanic rocks: Flows of peridotitic and basaltic komatiite, and Mg-rich tholeiitic basalt, and minor Fe-rich tholeiitic basalt, and minor Fe-rich tholeiitic basalts and interflow rhyolite tuff- breccias.
- Sedimentary rocks: Turbiditic conglomerate, greywacke and argillite, and iron formation chert, limestone, and dolostone.
- Intrusions: Sills and stocks of peridotite, pyroxenite, and gabbro.

Lower Supergroup

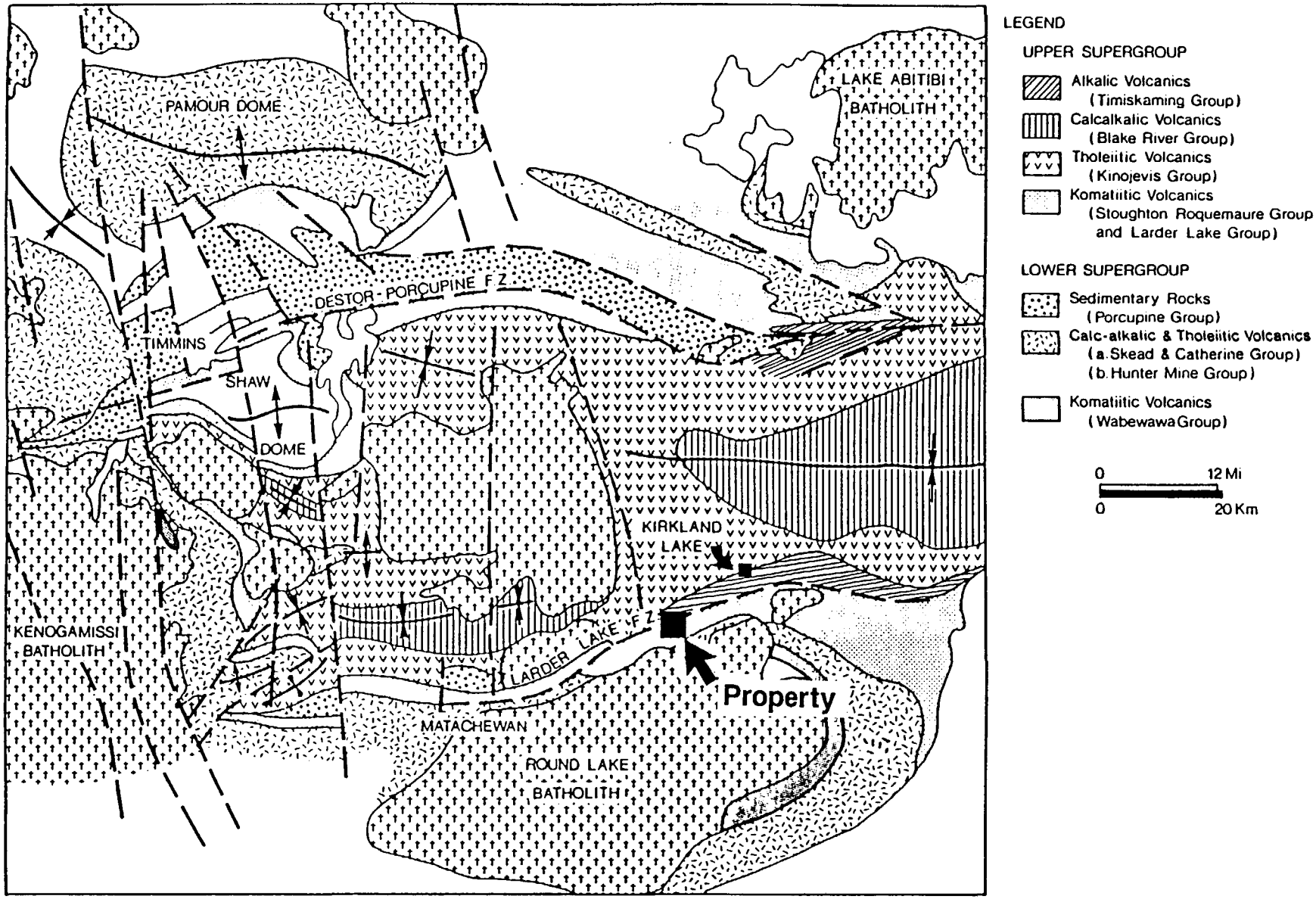
(Unnamed Unit)
- (Conglomerate with trachyte and syenodiorite pebbles).

Skead Group
- Volcanic rocks: Mainly calc-alkalic rhyolite tuff-breccia with some calc-alkalic basalt, andesite and dacite flows and tuff- breccias.
- Sedimentary rocks: Chert and cherty argillite.
- Intrusions: Stocks of feldspar porphyry and quartz diorite.

Catherine Group
- Volcanic rocks: Mg-rich and Fe-rich tholeiitic basalts.
- Sedimentary rocks: Interflow chert.
- Intrusions: (None mapped)

Wabewawa Group
- Volcanic rocks: Peridotitic and basaltic komatiite, Mg-rich tholeiite basalt and minor Fe-rich tholeiitic basalt, and a few interflow rhyolite tuffs.
- Sedimentary rocks: (None mapped)
- Intrusions: Layer sills (possibly flows) of dunite, pyroxenite, and gabbro.

Pacaud Tuffs (Ridler 1970)
- Volcanic rocks: Calc-alkalic andesite, dacite, and rhyolite tuffs.
- Sedimentary rocks: Chert, argillite, iron formation.
- Intrusions: Trondhjemite of Round Lake Batholith.



Geology of the Timmins-Kirkland Lake area (after Jensen 1978).

GEOLOGY OF THE PROPERTY

The claims are underlain by Archean volcanic and intrusive rocks. Volcanic rocks include basalts and andesites that strike generally west-southwest across the property. Dips are usually nearly vertical. The lavas have been intruded by bodies of gabbro and peridotite that have been altered locally to serpentine. The greater part of the north group is underlain by rocks assigned to this category. However, there are strongly conductive zones passing through sections of the 'mafic rocks' that appear to be caused by graphite. This would imply that the mafic rocks may include basic lavas. Further work is required to define relationships in this part of the property.

Algoman intrusives of syenite to trachyte composition occur in the area. Two small elongated bodies are known within the claims, and small dykes of syenite have been noted intruding the volcanics adjacent to the claims of the south group.

The Larder Lake Fault Zone runs in a general east-west direction just north of the property. Several related dislocations are mapped on the property, and several topographic lows within the north group appear to be caused by similar faulting.

Gold deposits in the Kirkland Lake area are often associated with faults and shear zones outside of, but related to the 'Main Break'. As noted earlier, carbonate alteration of both the volcanics and other rocks of the region is frequently observed to accompany gold mineralization. Rather extensive zones of carbonate alteration, often associated with disseminated sulphides and quartz veining have been located on the claims.

Often the carbonate altered rock will weather low, particularly if the alteration is associated with faulting or shearing. Often the only evidence of mineralization will be weak to moderate carbonate alteration in outcrop on the edges of linear topographic depressions, or in glacially transported boulders derived from the low areas and deposited some distance down ice.

Glacially transported boulders of carbonate altered rocks with disseminated sulphides and quartz veining have been located in the Otto Township portion of the property. These boulders are several hundred kilograms to several tonnes in weight. They do not appear to have been moved a great distance. Character samples were taken from three randomly se-

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LEGEND

ARCHEAN

- 1 Mafic Metavolcanics
- 2 Acid Metavolcanics
- 3 Metasediments
- 4 Mafic and Ultramafic Intrusives
- 5 Felsic Intrusives
- 6 Diabase

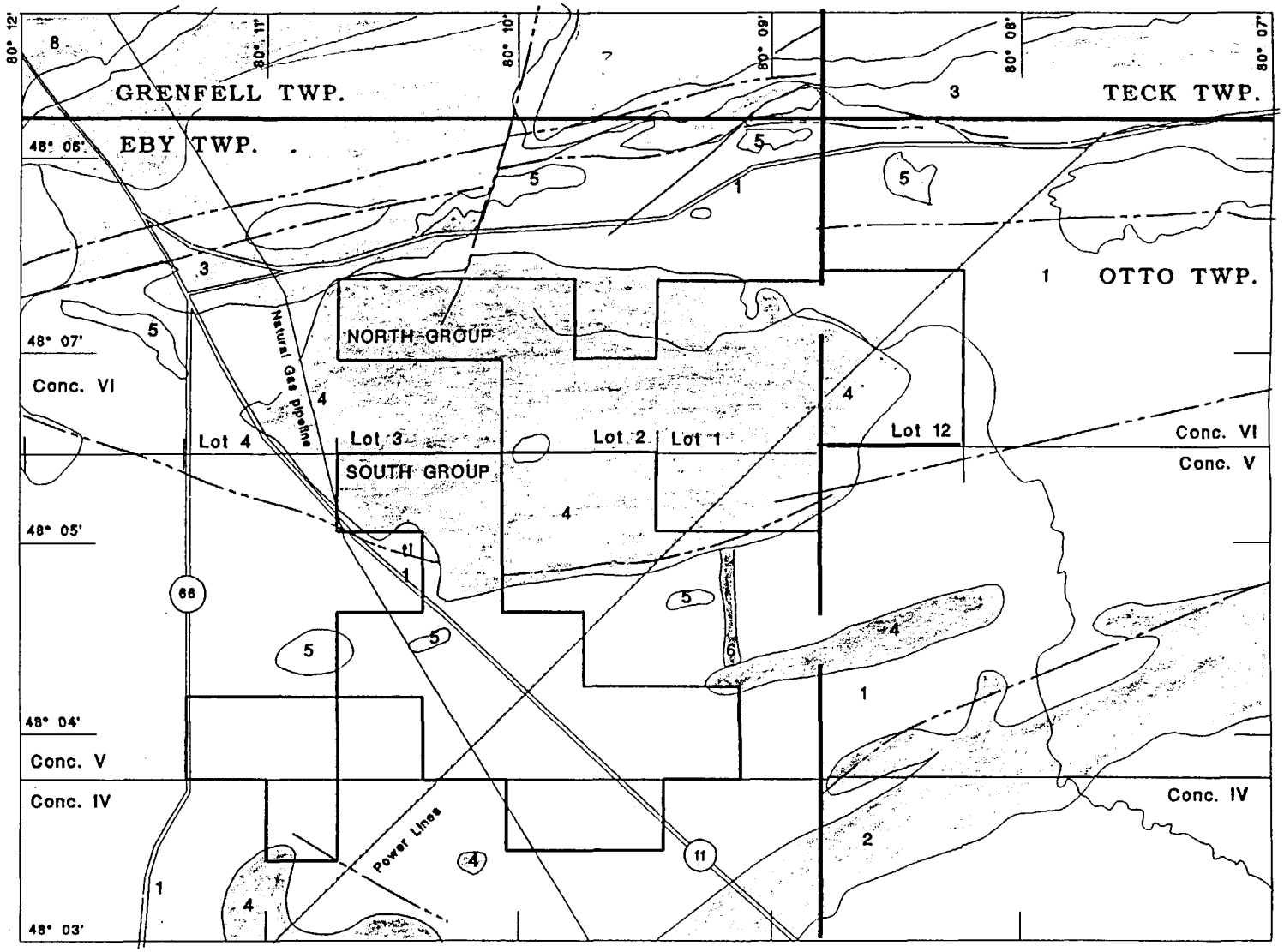
PROTEROZOIC (?)

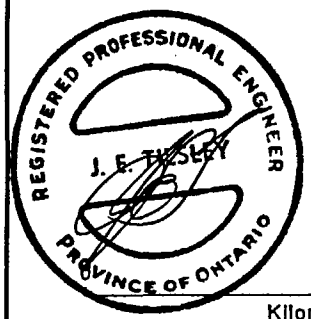
- 7 Syenite

HURONIAN

- 8 Gowganda Sediments

Faults & Lineaments





1 2
Kilometers

NASTEK EXPLORATIONS LTD.

EBY AND OTTO TOWNSHIPS - LARDER LAKE MINING DIVISION, ONTARIO

REED-ROBINSON PROPERTY

CLAIMS LOCATION & GENERAL GEOLOGY

September, 1996

lected boulders. These returned 0.099, 0.495, and 1.337 grams gold per tonne, respectively.

One sample of carbonate altered rock was collected during prospecting in the south group. This returned a gold assay of 0.517g/tonne.

PRODUCTION

There is no record of mineral production from the property.

RESERVES

Data available do not permit calculation of a mineral reserve on the claims.

PROPOSED EXPLORATION

The 1996 work program has defined sixteen locations in which zones of carbonate alteration can be investigated by stripping and trenching.

The source of the auriferous boulders found in claims 475261 and 475281 is a high priority target. Since much of the area in which the suspected source of these boulders lies is covered in overburden, evaluating the effectiveness of deep overburden sampling using a portable system is suggested for those areas of cover too deep to be stripped effectively. Geochemical studies of samples from basal tills in this area is also planned.

General investigation of the causes of the electromagnetic responses in the north and south groups, particularly those that lie in areas of low magnetic response, should include stripping, where possible, detailed prospecting and geological mapping to determine the location of carbonate alteration and disseminated sulphide mineralization that might be related to significant gold enrichment. Further exploration work in the areas of such geophysical responses would depend on results of prospecting, mapping and sampling noted above.

Those areas of possible economic interest that lie beneath wet ground or under deep overburden can be tested most efficiently by diamond drilling.

Since some of the mineralized zones of possible economic interest can be expected to weather low, and since a halo of metallic values often accompanies economic zones, lithogeochemistry of rocks from outcrops along the edges of selected topographic lows is recommended.

ESTIMATED EXPLORATION COSTS

The costs of the next phase of the proposed exploration program are estimated as follow:

Line cutting for detailed mapping and geophysical surveys. 25km @ $400.00/km	10,000.00
Detailed ground geophysical surveys in areas where prospecting shows potentially mineralized structures.	10,000.00
Stripping and trenching	37,500.00
Sampling of mineralization exposed on surface	15,000.00
Sample preparation and assaying	5,000.00
Deep overburden sampling	8,000.00
Geochemical sampling and assaying (lithogeochemistry and till geochemistry)	6,500.00
Pleistocene geology studies as part of boulder tracing	6,500.00

Detailed geological mapping	12,000.00
Preliminary metallurgical testing	3,000.00
Supervision	9,000.00
Evaluation of results	5,750.00
Reporting (incl. drafting, secretarial, printing, binding, et cetera)	5,500.00
Travel, room & board	7,000.00
Vehicle allocation (3 months, incl. fuel, insurance, mileage)	11,750.00
Communications (telephone, courier, postage, shipping, et cetera)	3,500.00
Subtotal	156,000.00
GST	10,920.00
TOTAL	**$166,920.00**

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Jensen, L. S., and Langford, F. F., 1985: Geology and Petrogenesis of the Archean Abitibi Belt in the Kirkland Lake Area, Ontario; Ontario Geological Survey, Miscellaneous Paper 123,

JAMES E. TILSLEY & ASSOCIATES LTD.

Certificate

I, James E. Tilsley, of the town of Aurora, Province of Ontario, hereby certify:

1. I am a Consulting Geologist and reside at 5 Steeplechase Avenue, Aurora, Ontario.

2. I am a graduate of Acadia University, 1959, B.A., Geology.

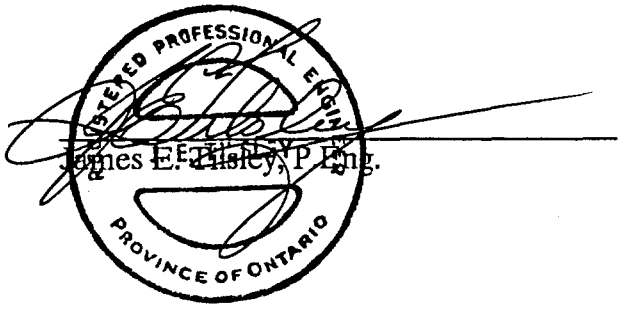
3. I am a member of the Association of Professional Engineers of Ontario, The Association of Professional Engineers of Manitoba, Chartered Engineers (Great Britain), and designated Consulting Engineer, Ontario Association of Professional Engineers, 1975.

4. I have been employed as a geologist since graduation, with consulting groups since 1964, and in private practice since 1980.

5. This report is based on study of records relating to the property as made available from the files of the Office of the Mining Recorder in Kirkland Lake, Ontario, publications of the Geological Survey of Canada, the Ontario Geological Survey, the Ontario Department of Mines, et cetera, a knowledge of the area developed during work programs that I have carried out and/or supervised in the region during the past thirty years, review of geological and geophysical data generated during the 1996 field season and a field inspection of the claims in early September, 1996.

7. I have no interest, direct or indirect, in the properties or securities of Nastek Explorations Ltd., or any affiliates, nor do I expect to receive any such interest.

Dated at Aurora, Ontario this **30th** day of **September, 1996.**



James E. Tilsley, P.Eng.

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Nastek Explorations Ltd.: Eby North Grid

ASSESSMENT REPORT, EBY NORTH GROUP, (Nastek Explorations Ltd)

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RECEIVED
AUG 13 1998
10.40
GEOSCIENCE ASSESSMENT OFFICE

Douglas Robinson

Doug Robinson Consulting

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APPENDICES
EBY NORTH GRID: 1996
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EBY NORTH GRID: 1996
LIST OF LINES SURVEYED BY TOTAL MAGNETIC FIELD-GRADIOMETER MEASUREMENTS.

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LIST OF LINES CUT.
PROFILES

EXPLORATION PROPOSAL (6 pages, June 1997)

PROFILES: MaxMin EM
Profile 16+00E, 100 m Coil Separation
Profile 17+00E, 100 m Coil Separation
Profile 18+00E, 100 m Coil Separation
Profile 19+00E, 100 m Coil Separation
Profile 20+00E, 100 m Coil Separation
Profile 21+00E, 100 m Coil Separation
Profile 22+00E, 100 m Coil Separation
Profile 23+00E, 100 m Coil Separation
Profile 30+00E, 100 m Coil Separation
Profile 31+00E, 100 m Coil Separation
Profile 32+00E, 100 m Coil Separation
Profile 33+00E, 100 m Coil Separation
Profile 33+50E, North Part 100 m Coil Separation
Profile 33+50E, South Part 100 m Coil Separation
Profile 34+25E, North Part 100 m Coil Separation
Profile 34+25E, South Part 100 m Coil Separation
Profile 35+25E, North Part 100 m Coil Separation
Profile 35+25E, South Part 100 m Coil Separation
Profile 36+00E, North Part 100 m Coil Separation
Profile 36+00E, South Part 100 m Coil Separation
Profile 37+00E, 100 m Coil Separation
Profile 38+00E, 100 m Coil Separation
Profile 39+00E, 100 m Coil Separation
Profile 40+00E, 100 m Coil Separation

Nastek Explorations Ltd.: Eby North Grid

Profile 44+50E, 100 m Coil Separation
Profile 45+50E, 100 m Coil Separation
Profile 46+50E, 100 m Coil Separation
Profile 47+35E, 100 m Coil Separation

PROFILES: MAGNETIC TOTAL FIELD
NW Group (D. Robinson)
Line 1600E: Total Magnetic Field Strength
Line 1700E: Total Magnetic Field Strength
Line 1800E: Total Magnetic Field Strength
Line 1900E: Total Magnetic Field Strength
Line 2000E: Total Magnetic Field Strength
Line 2100E: Total Magnetic Field Strength
Line 2200E: Total Magnetic Field Strength
Line 2300E: Total Magnetic Field Strength
Line 2400E: Total Magnetic Field Strength
Line 2450E: Total Magnetic Field Strength
Line 2500E: Total Magnetic Field Strength
Line 2600E: Total Magnetic Field Strength
Line 2650E: Total Magnetic Field Strength
Line 2700E: Total Magnetic Field Strength
Line 2750E: Total Magnetic Field Strength
Line 2800E: Total Magnetic Field Strength
Line 2850E: Total Magnetic Field Strength
Line 3000E: Total Magnetic Field Strength
Line 3100E: Total Magnetic Field Strength
Line 3200E: Total Magnetic Field Strength
Line 3300E: Total Magnetic Field Strength
Line 3350E North Part: Total Magnetic Field Strength
Line 3350E South Part: Total Magnetic Field Strength
Line 3400E: Total Magnetic Field Strength
Line 3425E North Part: Total Magnetic Field Strength
Line 3425E South Part: Total Magnetic Field Strength
Line 3525E North Part: Total Magnetic Field Strength
Line 3525E South Part: Total Magnetic Field Strength
Line 3600E North Part: Total Magnetic Field Strength
Line 3600E South Part: Total Magnetic Field Strength
Line 3650E: Total Magnetic Field Strength
Line 3700E North Part: Total Magnetic Field Strength
Line 3700E South Part: Total Magnetic Field Strength

Nastek Explorations Ltd.: Eby North Grid

Line 3750E: Total Magnetic Field Strength
Line 3800E North Part: Total Magnetic Field Strength
Line 3800E (1 sec) South Part: Total Magnetic Field Strength
Line 3800E (2 sec) South Part: Total Magnetic Field Strength
Line 3850E: Total Magnetic Field Strength
Line 3900E North Part: Total Magnetic Field Strength
Line 3900E South Part: Total Magnetic Field Strength
Line 3950E: Total Magnetic Field Strength
Line 4000E North Part: Total Magnetic Field Strength
Line 4000E South Part: Total Magnetic Field Strength
Line 4100E: Total Magnetic Field Strength
Line 4150E: Total Magnetic Field Strength
Line 4200E: Total Magnetic Field Strength
Line 4250E: Total Magnetic Field Strength
Line 4300E: Total Magnetic Field Strength
Line 4350E: Total Magnetic Field Strength
Line 4450E: Total Magnetic Field Strength
Line 4550E: Total Magnetic Field Strength
Line 4650E: Total Magnetic Field Strength
Line 4735E: Total Magnetic Field Strength
Line 000N: Total Magnetic Field Strength
Line 400N: Total Magnetic Field Strength

Field Notes for MaxMin and topographic measurements (17 pages)

MaxMin 1 Specifications
Scintrex Envimag Specifications

Addendum Report to report Title:
ASSESSMENT REPORT, EBY NORTH GROUP, (Nastek Explorations Ltd)
and dated August 10

CLAIM MAPS EBY & OTTO TP.

Nastek Explorations Ltd.: Eby North Grid

A. INTRODUCTION

During late August-September 1996 Nastek Exploration Ltd. conducted line cutting, geological mapping, magnetic total field-gradient surveying and MaxMin surveying and prepared a technical report on their Eby North property in Eby and Otto townships west of Kirkland Lake Ontario. This supplemental report prepared for assessment purposes accompanies the report titled Nastek Explorations Ltd. Reed-Robinson Property, prepared by James E. Tilsley & Associates Ltd. and dated September 30, 1996.

This report in combination with the report dated September 30, 1996 is intended to be in comprehensive form as required by the Mining Act and Regulations.

B. PROPERTY

This property consists of the following eleven claims in Eby Township (Plan # M-345) and Otto Township (Plan #M-379).

532930 - NW1/4 of S1/2 of Lot 3, Conc VI, Eby Tp (1 unit)
532929 - NE1/4 of S1/2 of Lot 3, Conc VI, Eby Tp (1 unit)
1186975 - W1/2 of S1/2 of Lot 2, Conc VI, Eby Tp (2 units)
1186974 - SE1/4 of S1/2 of Lot 2, Conc VI, Eby Tp (1 unit)
1187002 - S1/2 of Lot 1, Conc VI, Eby Tp (4 units)
532925 - NW1/4 of N1/2 of Lot 1, Conc V, Eby Tp (1 unit)
532924 - NE1/4 of N1/2 of Lot 1, Conc V, Eby Tp (1 unit)
475258 - NW1/4 of S1/2 of Lot 12, Conc VI, Otto Tp (1 unit)
475259 - NE1/4 of S1/2 of Lot 12, Conc VI, Otto Tp (1 unit)
475261 - SW1/4 of S1/2 of Lot 12, Conc VI, Otto Tp (1 unit)
475260 - SW1/4 of S1/2 of Lot 12, Conc VI, Otto Tp (1 unit)

The Property is centred at Latitude 48°05'30" and Longitude 80°10'00" (UTM Zone: 5326500N, 562500E) of the Kirkland Lake Topographic Sheet 42A/1.

C. LOCATION

The property locations are outlined in Figure 1 of the accompanying report dated Sept 30, 1996.

D. ACCESS

The west end of the claim group is best accessed from Highway 66 at a point 2.3 km east of the intersection of Highways 11 and 66. At this point park at the access road leading north from Highway 66 and walk 400 m at azimuth 180° to the #1 Post of claim 1186975.

The east end of the claim group is best accessed from Highway 66 at a point 3.7 km east of the intersection of Highways 11 and 66. At this point park on the shoulder of the road and walk azimuth 180° 0.55 km to the #4 Post of claim 475258. This is along the surveyed township line dividing Eby and Otto townships.

E. SURVEY DATES AND SUPERVISION

The EM and Magnetometer surveys and line cutting were supervised by the author. All geological mapping was performed by the author. The accompanying report dated September 1996 was prepared by James E. Tilsley and Associates. The grid was cut August 12-Sept 3, 1996. The magnetometer survey was conducted August 27-August 30, 1996 and EM survey was conducted Aug 26, to Sept 3 1996. These surveys were performed as lines became available. The grid was rechained after the geophysics surveys to correct various chainage errors. The EM, mag surveys geology were altered to reflect these chainage errors. The chainage pickets were moved to their proper locations and the original locations were flagged. Both original and final picket locations were noted during geological mapping.

F. DEPOSIT TYPE AND GEOLOGY

See accompanying report dated September 1996.

G. SUMMARY OF PREVIOUS WORK

See accompanying report dated September 1996.

H. LINE CUTTING

A total of 22.097 km were sub-contracted to various parties by Doug Robinson Consulting. The grid is an extension of a previously existing grid. Lines were cut a 100 m spacing with a 25 m station interval.

Lines 3350E, 34+25E, 3525E, 3600E, 3700E, 4000E, 4450, 4550E 4650E and the north part of line 4735E were rechained after the EM survey as 24 and 26 m chains were used randomly to mark 25 m stations resulting in line offsets to 25 meters at the tie lines.

I. MaxMin HORIZONTAL LOOP EM (Terrain) SURVEY

A total of 17.325 km of Maxmin EM surveying was performed. Two frequencies were measured using a 100 m coil separation with readings at a 25 m interval. Terrain corrections were performed by recording a running average % slope of the four station intervals between the coils. The average slope was used to maintain the coils coplanar.

Data of each line was plotted on standard profile plots recording IP and OP curves for each frequency and terrain profile on separate graphs on a line specific sheet. This presentation was used to accommodate multi-frequency data and to

accommodate reproduction on standard photocopy machines. Data was plotted at 1:2500 scale and reproduced at a 0.64X reduction for this report. These profiles can be copied at 1.56X to restore the 1:2500 scale.

For the convenience of the reader and possible future data processing the typed field notes are transposed from measurement location to plotting location.

J. ANOMALIES

Ground EM consisting of MaxMin EM surveys were directed to locating the surface trace and character of conductive formations within the grid area. The following anomalies were identified:

LIST OF ANOMALIES:

Line	Station	Anomaly Description
1800E	262N	Very weak possible anomaly. 3555 Hz only
1900E	286N	Moderate 3555 Hz and weak 888 Hz quadrature phase.
2000E	325N	Moderate 3555 Hz and weak 888 Hz quadrature phase.
2100E	325N	Moderate 3555 Hz and moderate 888 Hz.
2200E	338N	Questionable weak 3555 Hz.
2300E	310N	Questionable weak 3555 Hz.
3350E	078N	Very strong 3500 Hz and 888 Hz conductor. Sulphides or graphite.
	856S	Should be confirmed with 200m cable to minimize topographical effects.
3425E	078N	Strong 3555 Hz weak 888 Hz. Weak conductor or strong structure.
	158S	Weak 3555 Hz. Possible structure or major contact marking conductivity contrast.
	849S	Should be confirmed with 200m cable to minimize topographical effects.
3525E	138N	Moderate 3555 Hz and very weak 888 Hz.

		Possible broad structure or major contact marking conductivity contrast.
3525E	530S	Possible weak conductor under Power line.
3600E	140N	Strong 3555 Hz, moderate 888 Hz. Appears to be strongly conductive, possible narrow.
3700E	840S	Probable strong 3555 Hz, moderate 888 Hz conductor south of line. See 3800E-787S.
3800E	787S	Very strong 3500 Hz and 888 Hz. Sulphides or graphite.
3900E	765S	Moderate 3555 Hz, weak 888 Hz. Extension of conductor at 3800e-787S
4000E	815S	Moderate 3555 Hz, weak 888 Hz. Extension of conductor at 3800e-787S
4450E	223N	Moderate 3555 Hz, weak 888 Hz.
	033S	Very strong 3500 Hz and 888 Hz. Sulphides or graphite.
4550E	364N	Strong 3500 Hz and 888 Hz. Sulphides or graphite.
	138N	Possible 3500 Hz and 888 Hz.
	104S	Very strong 3500 Hz and 888 Hz. Sulphides or graphite.
4650	317N	Very strong 3500 Hz and 888 Hz. Sulphides or graphite.
	120N	Very strong 3500 Hz and 888 Hz. Sulphides or graphite.
	247S	Very strong 3500 Hz and moderate 888 Hz. Sulphides or graphite. Weaker than 4550E-104S
4735E	357N	Very strong 3500 Hz and 888 Hz. Sulphides or graphite.
	117N	Very strong 3500 Hz and 888 Hz. Sulphides or graphite.
	016N	Very strong 3500 Hz and 888 Hz. Sulphides or graphite.
	250S	Very strong 3500 Hz and moderate 888 Hz. Sulphides or graphite.

K. MAGNETIC SURVEY

A Scintrex ENVI-MAG was used for blanket coverage of all lines. This instrument was selected because of its ability to give a high density of readings suitable for profiling. This procedure was selected to detect short wavelength and low amplitude negative magnetic anomalies associated with carbonate alteration of magnetite and ferro-magnesium minerals.

Both total magnetic field and magnetic gradient were measured. The magnetic gradient although collected was not processed.

The data was plotted in profile at 1:5000 scale. The data was subsequently contoured using envimap programming.

L. RECOMMENDATIONS

For recommendations refer to the accompanying report dated September 30, 1996 and the accompanying list of recommendations prepared in June 1997 by Douglas Robinson at the request of Nastek Explorations Ltd.

M. LIST OF HOLDER and CO-HOLDERS

Optionee(s)
Nastek Explorations Ltd. and
928364 Ontario Limited both at
Suite 601
347 Bay Street
Toronto, Obntario

in care of
T.H. Bernholtz & Company 416 364 7818
347 Bay Street, Suite 601
Toronto Ontario
M5H 2R7
Attention Bruce Wright

Optionors
Douglas R. Robinson 705 642 9153
Box 218
Swastika, Ontario
POK 1TO

James D. Reed 705 642 3573
RR #2, Site 3, Box 2
Swastika, Ontario
POK 1TO

Emmalene L. Reed 705 642 3573
RR #2, Site 3, Box 2
Swastika, Ontario
POK 1TO

Nathanael E. Reed 705 642 3941
Box 85
Swastika, Ontario
POK 1TO

Charles E. Reed 705 824 3344
8 Kingsley Court
Guelph, Ontario
N1E 1E3

N. LIST OF REFERENCES

EBY TOWNSHIP

Cooke, H. C.
1922: MEMOIR 131 - Canada Department of Mines; Kenogami, Round, and Larder Lake Areas, Timiskaming District, Ontario.

Lovell, H. L.
1972: Geological Report 99 - Ontario Department of Mines Preliminary Geology of the Eby and Otto Area, District of Temiskaming

Thomson, J. E.
1948: Geology of Teck Township and the Kenogami Lake Area, Kirkland Lake Gold Belt, Ontario Department of Mines Annual Report for 1948, Volume 57, Part 5, 196p.

Map 1946-1 - Kenogami Lake Area; parts of Grenfell and Eby Townships

Map P. 448 - Ontario Department of Mines Preliminary Geological Map No. P. 448; Eby Township.
Scale 1 inch = 1/2 mile

Map P. 903 - Preliminary Map P.903; Kirkland Lake Data Series; Eby Township.
Scale 1 : 15 840

Map P. 2268 - Ontario Geological Survey Preliminary Map P.2268 Kirkland Lake Area; Eby Township; Airborne Electromagnetic Survey.

Map P. 2268 - Ontario Geological Survey Preliminary Map P.2268; Kirkland Lake Area; Eby Township; Airborne Electromagnetic Survey; Total Field Magnetic Survey.
Scale 1 : 20 000

OTTO TOWNSHIP

MEMOIR 131 - Canada Department of Mines
Kenogami, Round, and Larder Lake Areas, Timiskaming District, Ontario, By H. C. Cooke, 1922.

Geological Report 99 - Ontario Department of Mines Preliminary Geology of the Eby and Otto Area, District of Temiskaming By H. L. Lovell, 1972.

Mineral Resources Circular No. 39 - Mineral Resources and Mining Properties in the Kirkland Lake-Larder Lake area. By W. S. Savage, 1964.

Map P. 330 - Ontario Department of Mines Preliminary Geological Map No. P. 330; Otto Township (North Half)
Scale 1 inch = 1000 feet

Map No. 501 - Preliminary Map No. 501; Otto Township and Northern Part of Marquis Township.
Scale 1 inch = 1/4 mile.

Map P. 717 - Ontario Department of Mines and Northern Affairs; Preliminary Map P. 717; Geochemical Distribution of Acid Soluble Copper in Felsic Plutonic Rocks; Otto Township and Parts of Eby, Marquis and Boston Townships.
Scale 1 inch = 1/2 mile

Map P. 718 - Ontario Department of Mines and Northern Affairs; Preliminary Map P. 718; Geochemical Distribution of Acid Soluble Lead in Felsic Plutonic Rocks. Otto Township and Parts of Eby, Marquis and Boston Townships.
Scale 1 inch = 1/2 mile

Map P. 719 - Ontario Department of Mines and Northern Affairs; Preliminary Map P. 719; Geochemical Distribution of Acid Soluble Molybdenum in Felsic Plutonic Rocks. Otto Township and Parts of Eby, Marquis and Boston Townships.
Scale 1 inch = 1/2 mile

Nastek Explorations Ltd.: Eby North Grid

Map P. 2269 - Ontario Geological Survey Preliminary Map P.2269; Kirkland Lake Area; Otto Township; Airborne Electromagnetic Survey.

Map P. 2269 - Ontario Geological Survey Preliminary Map P.2269; Kirkland Lake Area; Otto Township; Airborne Electromagnetic Survey; Total Field Magnetic Survey.
Scale 1 : 20 000

CERTIFICATE

I, Douglas Robinson, of 24 Victoria Avenue Swastika, Ontario, hereby certify that:

1. I am a registered professional Engineer of Ontario engaged in my profession for approximately 20 years.

2. I am a graduate of Queen's University in Kingston Ontario with an Honours Bachelor of Science degree in Geological Engineering and
Northern College, School of Mines in Haileybury, Ontario with a Mining Technician Certificate.

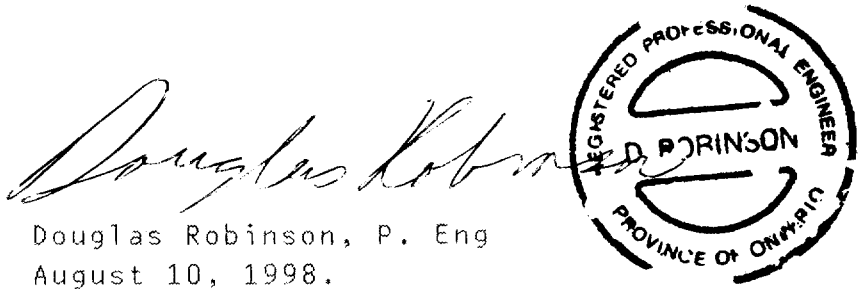
3. I personally supervised the EM and magnetometer surveys claimed in this report.

4. I personally conducted all mapping and sampling claimed in this report.

5. I authored this report.

6. My knowledge of exploration procedures was acquired through 20 years employment in the mining industry.

7. My knowledge of the properties was acquired by personally mapping the property and reviewing MNDM assessment reports.



Douglas Robinson, P. Eng
August 10, 1998.

EBY NORTH GRID: 1996
LIST OF LINES SURVEYED BY MAXMIN EM AND TOPOGRAPHIC MEASUREMENTS.

			EM
Line	From	To	Metres
1600	-50	450	500
1700	-50	475	525
1800	-50	425	475
1900	-25	425	450
2000	-50	425	475
2100	-25	425	450
2200	-50	450	500
2300	-50	475	525
3000	-400	25	425
3100	-450	25	475
3200	-425	0	425
3350	-925	400	1325
3425	-875	375	1250
3525	-875	375	1250
3600	-875	375	1250
3700	-850	0	850
3800	-875	0	875
3900	-875	0	875
4000	-875	0	875
4450	-425	450	875
4550	-425	475	900

Nastek Explorations Ltd.: Eby North Grid

4650	-400	475	875
4735	-425	475	900
		Total EM	17325
		& Topography	
		Measured	
		(Km)	17.325

EBY NORTH GRID: 1996
LIST OF LINES SURVEYED BY TOTAL MAGNETIC FIELD-GRADIOMETER MEASUREMENTS.

			Magnetic Surveys
Line	From	To	Metres
1600	-50	400	450
1700	-50	375	425
1800	-50	350	400
1900	-25	350	375
2000	-50	350	400
2100	-25	375	400
2200	-50	375	425
2300	-50	375	425
3000	-425	25	450
3100	-450	25	475
3200	-425	25	450
3350	-919	386	1305
3425	-864	385	1249
3525	-873	375	1248
3600	-874	375	1249
3700	-925	-275	650
3800(1sec)	-875	-400	475
3800(2sec)	-875	0	875
3900	-875	0	875
4000	-875	0	875

Nastek Explorations Ltd.: Eby North Grid

4450	-425	450	875
4550	-443	469	912
4650	-417	488	905
4735	-425	465	890
000N	1600	2300	700
400N	1600	2300	700
		Total magnetic Surveys	18458
		(Km)	18.458

EBY NORTH GRID: 1996
LIST OF LINES CUT.

Eby North Grid			Lines Cut
Line	From	To	Metres
1600	-50	450	500
1700	-50	475	525
1800	-50	425	475
1900	-25	425	450
2000	-50	425	475
2100	-25	425	450
2200	-50	450	500
2300	-50	475	525
3000	-425	25	450
3100	-450	25	475
3200	-425	25	450
3350	-925	400	1325
3425	-875	385	1260
3525	-875	375	1250
3600	-874	375	1249
3700	-925	0	925
3800	-875	0	875
3900	-875	0	875
4000	-875	0	875
4450	-425	450	875
4550	-443	475	918

Nastek Explorations Ltd.: Eby North Grid

4650	-417	488	905
4735	-425	475	900
000N	1600	2300	700
000N	4350	4735	385
400N	1600	2300	700
400N	3265	4000	735
450N	4350	4735	385
425S	4350	4735	385
425S	3000	3650	650
825S	3350	4000	650
		Total EM	22097
		(Km)	22.097

Nastek Explorations Ltd.: Eby North Grid.

	STRIPPING PROPOSAL						
	(Includes 2-3 cu yard back hoe on swamp pads, geologist & helper)						
	Claim 1186975						
	Line	Coord	From	To	Metres	Cost	Description
A	2700E	374N	2670	2730	60	2000	Along Major Quartz vein with 1358 PPB Au value.
B	2700E	347N	300	380	80	3000	Possible Major Deformation zone with alteration
C	2575E	315N	285	325	40	1500	Across alteration Zone.
D	2650E	335N	2575	2775	200	5000	Along Altered deformation zone.
E	2750E	290N	280	300	20	500	Alteration zone
F	2800E	290N	2785	2815	30	500	quartz vein: 10-15 cm
G	2550E	050N	2450	2600	150	4000	Along Altered Deformation Zone with anomalous Au.
H	2600E	000N	2550	2650	100	2000	Along major alteration Zone with intensely altered syenite intrusion.
I	2645E	025S	0	50	50	1000	Across Magor deformation zone

Nastek Explorations Ltd.: Eby North Grid.

J	2675E	023S	10	65	55	1000	Perpendicular Alterationand Major Altered Deformation Zone.
K	2700E	090S	65	90	25	1000	Test for source of alteration in Talus of Target "J".
			Sub Total		810	21500	
	Claim 1187002						
	Line	Coord	From	To	Metres	Cost	Description
A	3900E	375N	3900	3950	50	1000	Along Major Quartz Vein with Anomalous Au.
B	3850E	360N	345	375	30	500	Alteration in Talus.
C	4000E	100N	85	130	45	1000	Alteration at North Edge of MaxMin Conductor.
D	3900E	109N	90	140	50	1000	Crosses Quartz Vein and Alteration.
E	3930E	120N	3900	3950	50	500	Major Quartz Vein.
F	3850E	125N	110	140	30	500	Across alteration Zone.
G	3700E	380N	370	400	30	500	Across Alteration Zone.
H	3620E	310N	285	325	40	500	Across Alteration.
I	3600E	195N	190	125	35	500	Across Alteration.
J	3750E	040N	25	55	30	500	Across Alteration.

Nastek Explorations Ltd.: Eby North Grid.

K	3700E	040S	25	50	25	500	Alteration Zone.
L	3790E	155S	140	180	40	1000	Intense Alteration Zone with Anomalous Au.
M	3970E	100S	90	120	30	500	Alteration Zone.
N	3265E	130S	120	140	20	1000	Isolated Alteration Zone.
				Sub-Tot al	505	9500	
	Claims 475258-59-60-61						
	Line	Coord	From	To	Metres	Cost	Description
A	4100E	255N	160	300	140	5000	Across Several Alteraion Zones with anomalous Au.
B	4150E	190N	160	225	65	2500	Across Several Alteration Zones with Anomalous Au.
C	4200E	"285N	250	300	50	1500	Possible Major Deformation Zone.
D	4310E	380N	360	400	40	1500	Outcrop with 19,749 PPB Au Sample.
E	4150E	130S	75	350	275	5000	Crosses Several Alteration Zones.
F	4100E	290S	190	370	180	3000	Crosses Several Alteration Zones.

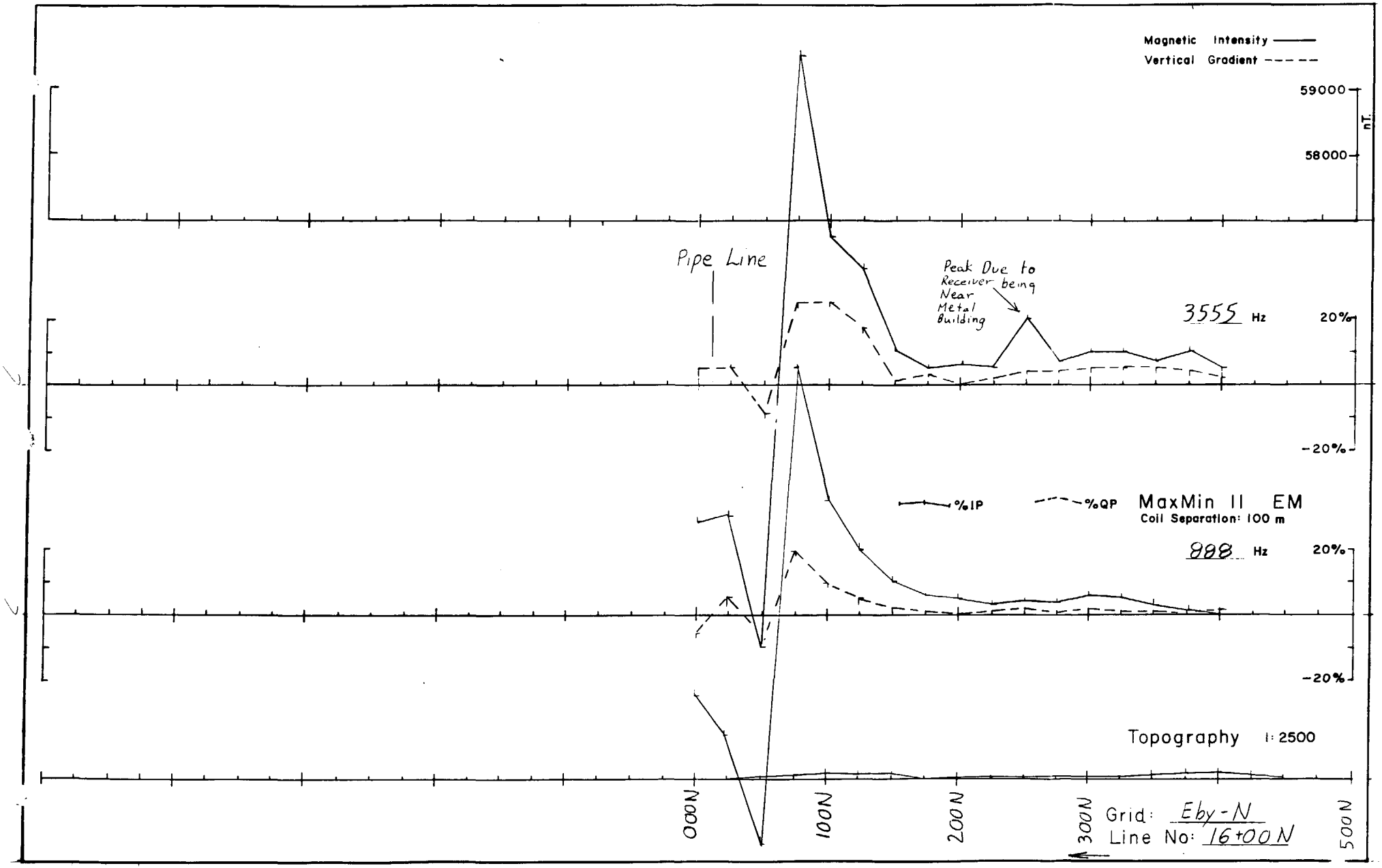
Nastek Explorations Ltd.: Eby North Grid.

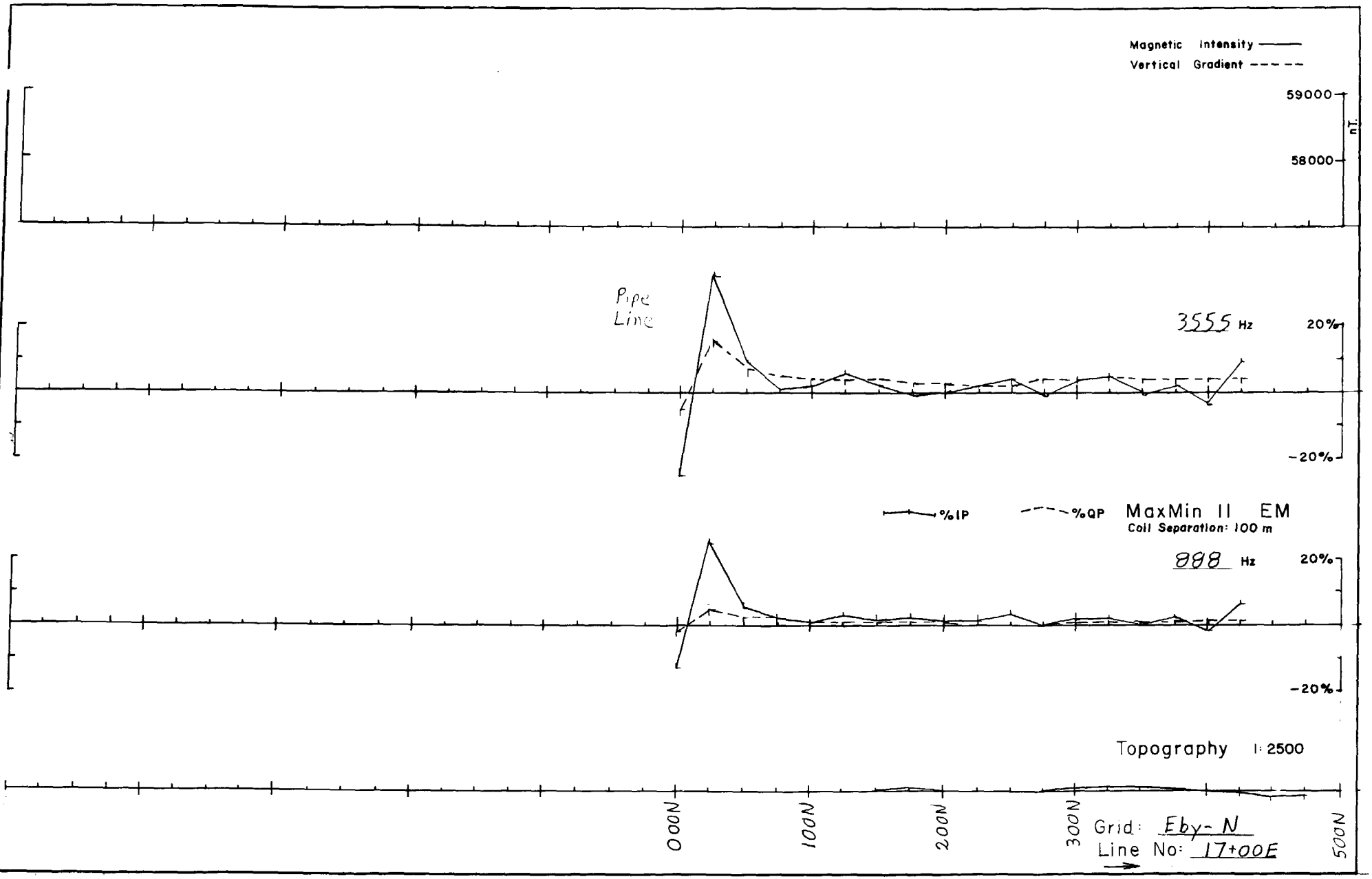
G	4120E	385S	365	400	35	500	Intense Alteration Zone.
H	4290E	195S	180	205	25	500	Altererd Talus.
J	4660E	377N	365	385	30	1000	Float 1385 PPB Au.
				Sub-total	840	20500	
			TOTAL STRIPPING		2155	51500	
	**********						
			GRID GEOLOGY (Including Drafting)				
				Km	Days	Cost$	
		Geology		4	6	1650	
		Drafting		10.5	4	1100	
		Total			10	2750	
	**********						
		STRIPPING: maping, sampling, drafting					
		Two people			20	10000	
		Strip Drafting			20	5500	
		Total				15500	
	**********						
		IP (25 m "A" Spacing)					
				Line	km		
				1200E	0.85		

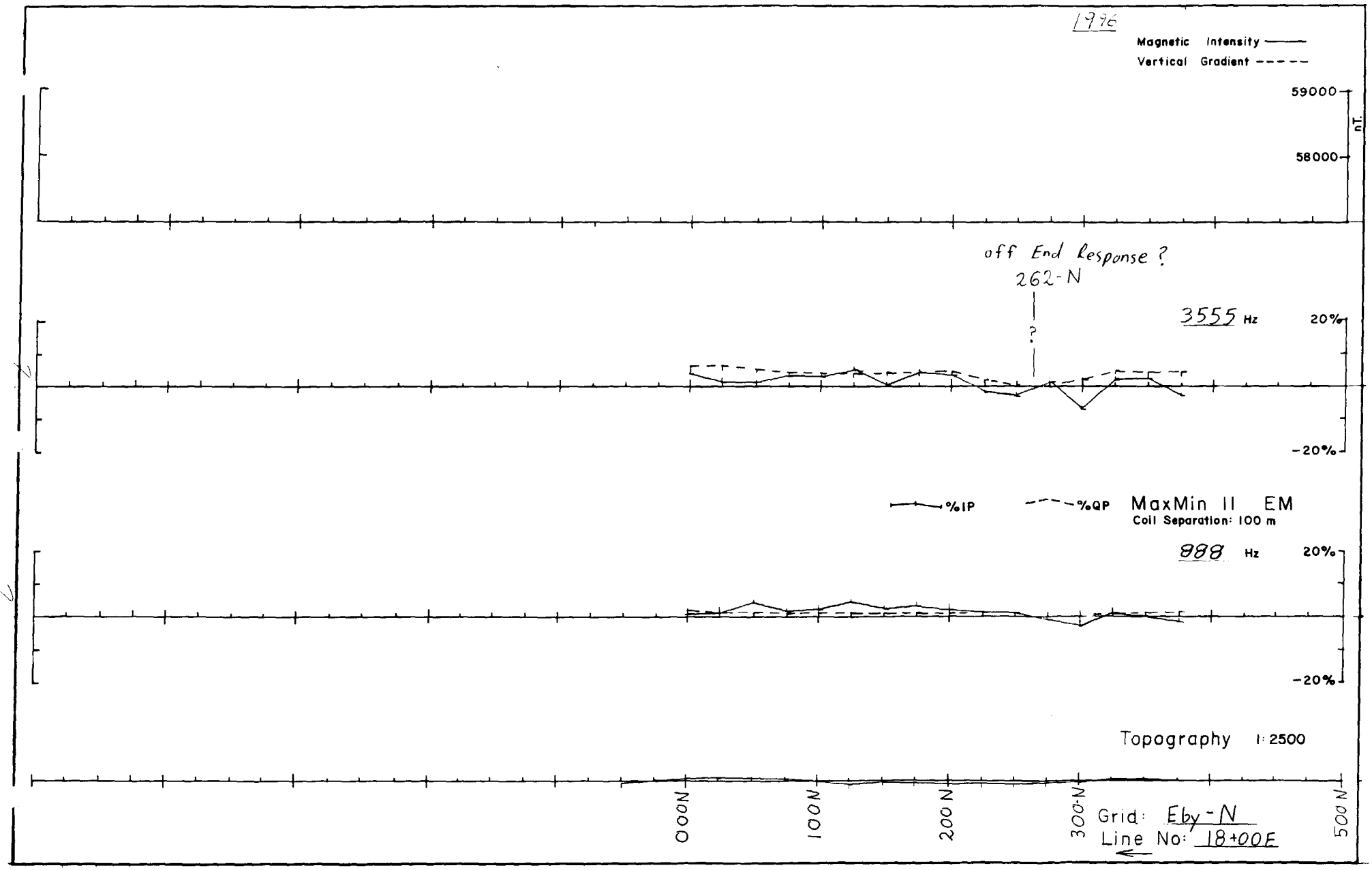
				1400E	0.85		
				1600E	0.85		
				2500E	0.725		
				2700E	0.8		
				3425E	1		
				3800E	1.3		
				4000E	1.325		
				4200E	0.6		
				4350E	0.9		
				4450E	0.9		
				4550E	0.9		
	Total				11	11000	
**********							
Assays					2000	24000	
**********							
COST SUMMARY							
Striping proposal				Metres	2155	51500	
Grid geology (including drafting)					10	2750	
Stripping: maping, sampling, drafting						15500	
General Logistics and misc.				Days	15	4125	

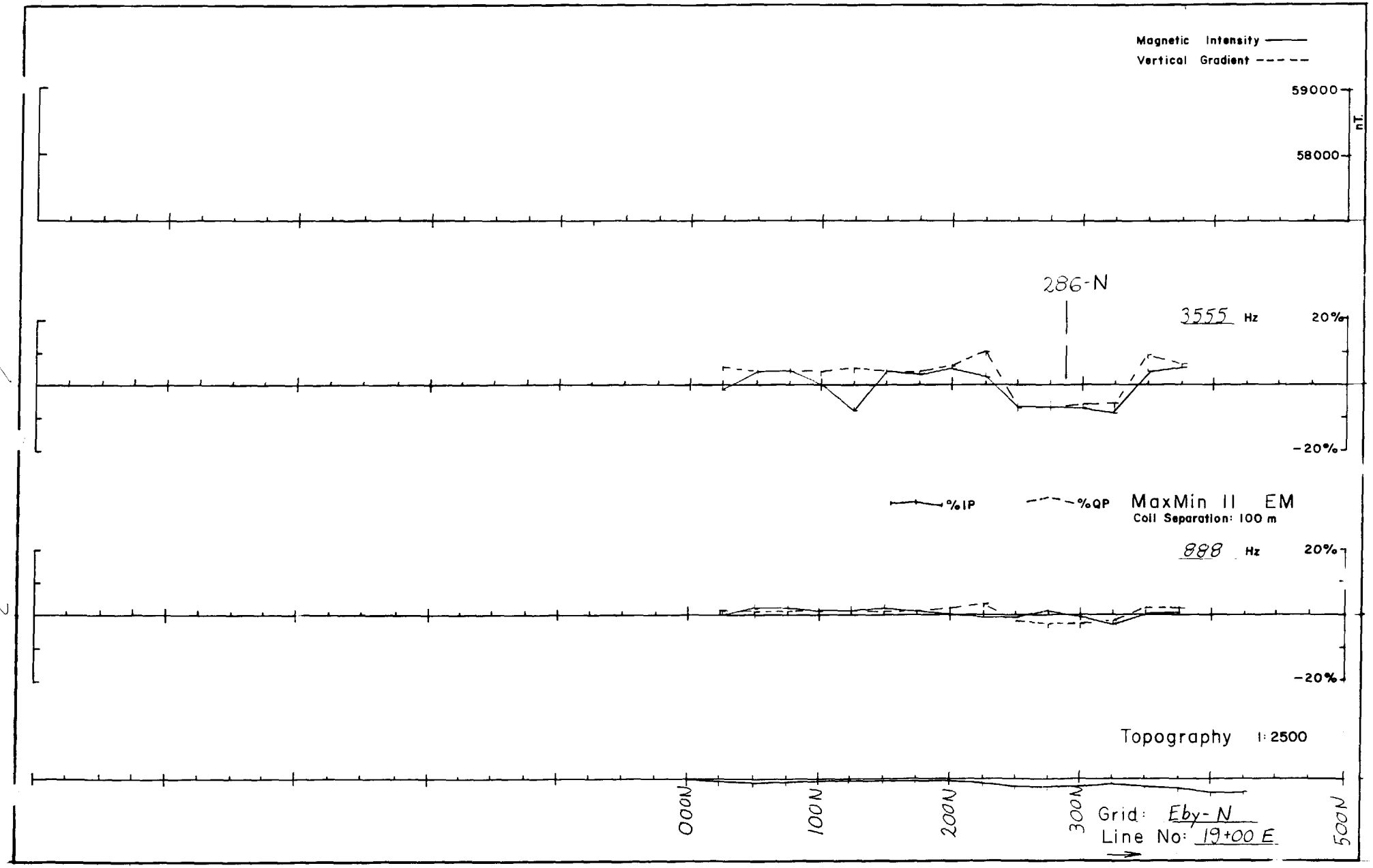
Nastek Explorations Ltd.: Eby North Grid.

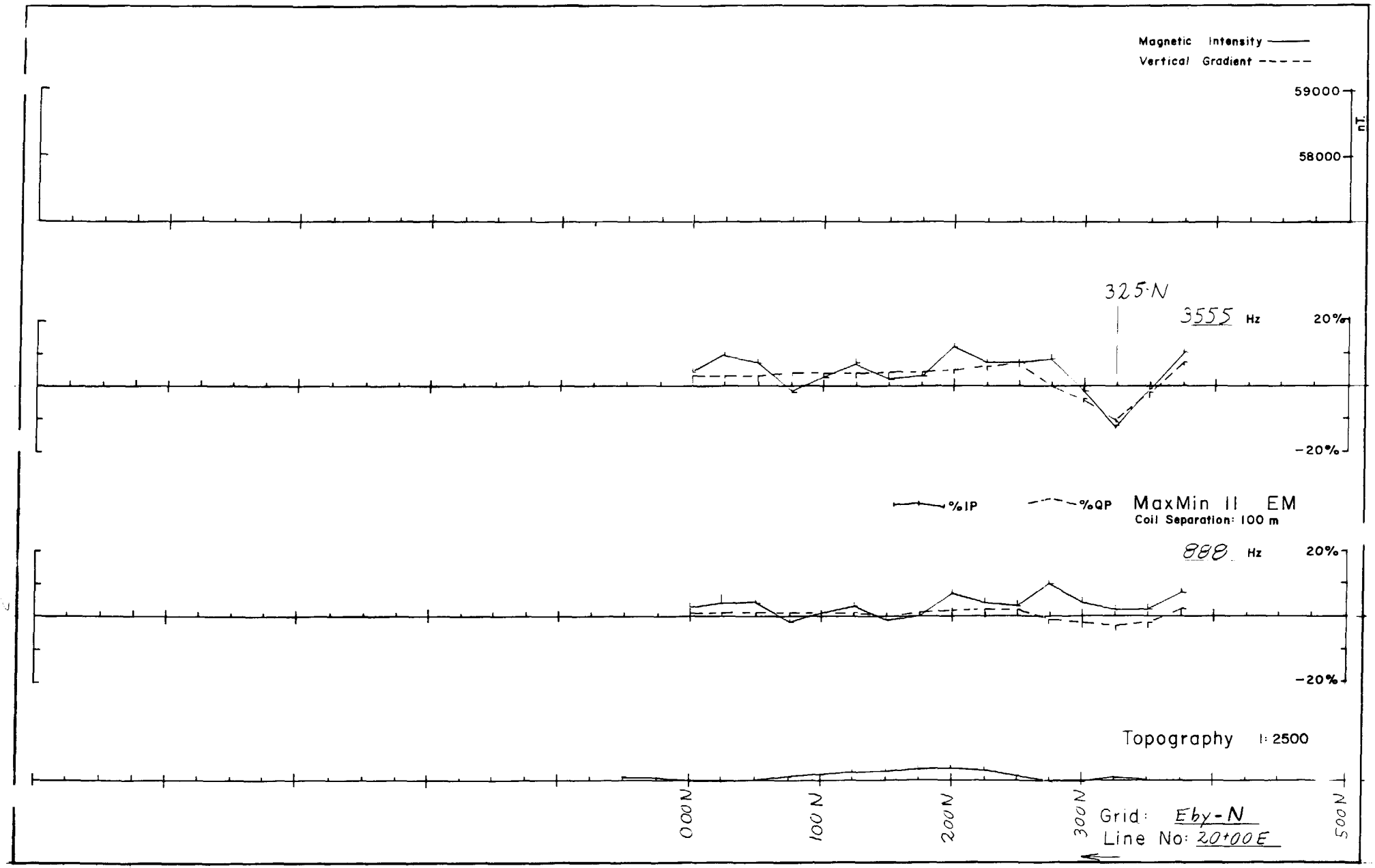
IP: 25 metre "A" spacing			Km	11	11000	
Assays				2000	24000	
Misc.					4000	
Pump and Hose				?		
TOTAL					108875	

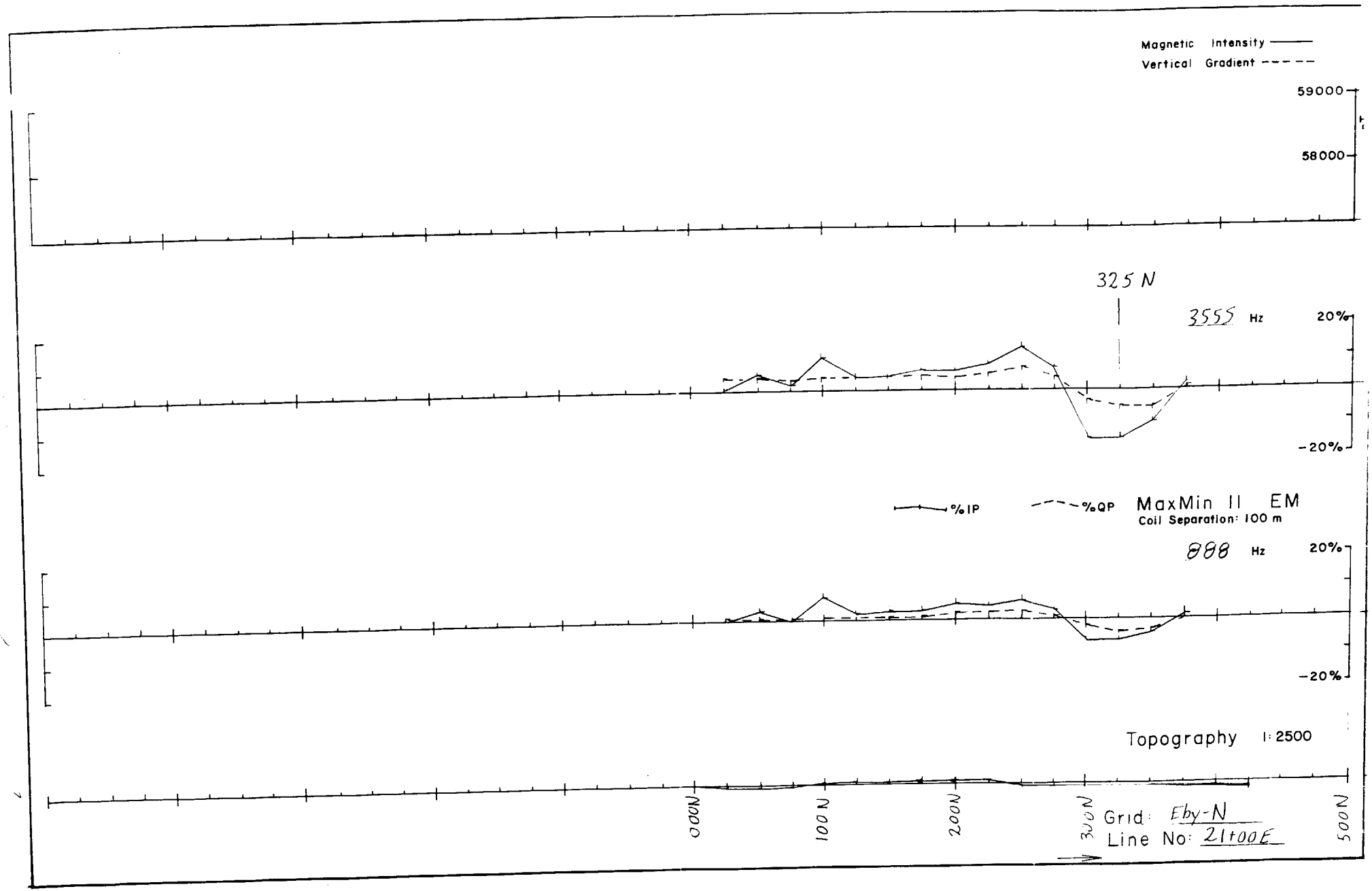

Magnetic Intensity
Vertical Gradient
59000
58000
nT.
Pipe Line
Peak Due to Receiver being Near Metal Building
3555 Hz
20%
-20%
%IP
%QP
MaxMin II EM
Coil Separation: 100 m
888 Hz
20%
-20%
Topography 1:2500
000N
100N
200N
300N
500N
Grid: Eby-N
Line No: 16+00N

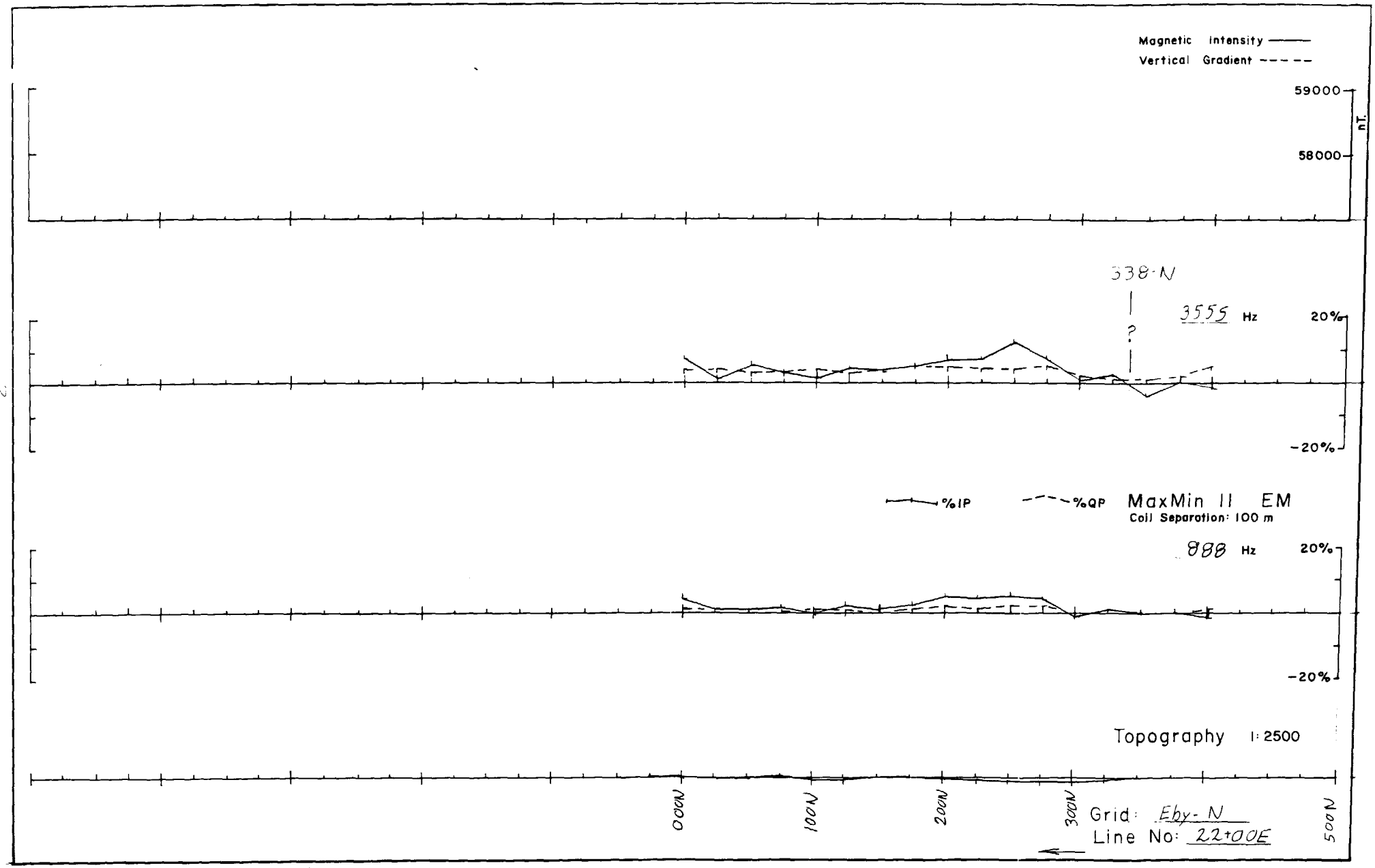

Magnetic Intensity
Vertical Gradient
59000
58000
nT.
Pipe Line
3555 Hz
20%
-20%
%IP
%QP
MaxMin II EM
Coil Separation: 100 m
888 Hz
20%
-20%
Topography 1:2500
000N
100N
200N
300N
500N
Grid: Eby-N
Line No: 17+00E

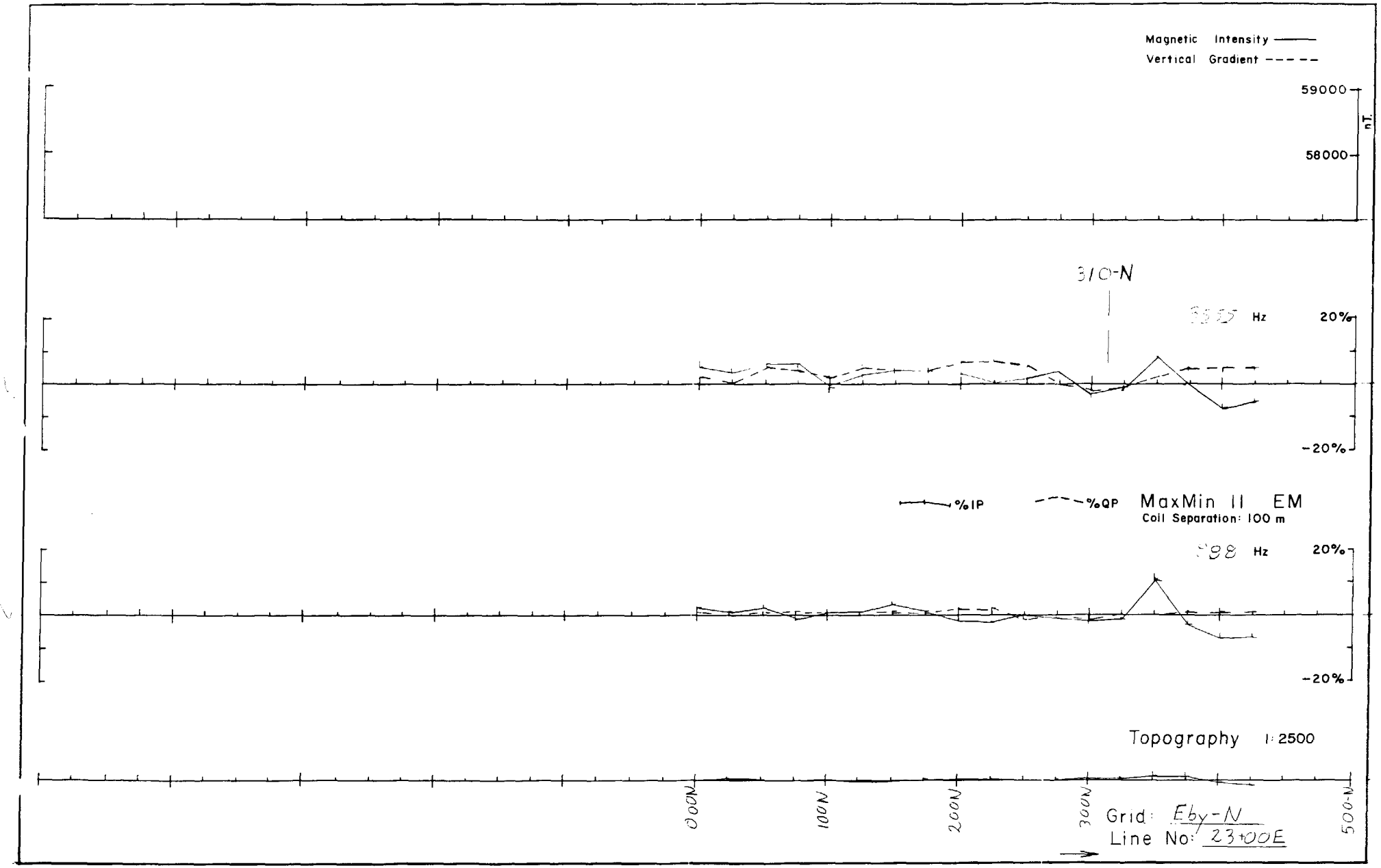

1996
Magnetic Intensity
Vertical Gradient
59000
58000
nT.
off End Response ?
262-N
?
3555 Hz
20%
-20%
%IP
%QP
MaxMin II EM
Coil Separation: 100 m
888 Hz
20%
-20%
Topography 1:2500
000N
100N
200N
300N
500N
Grid: Eby-N
Line No: 18+00E

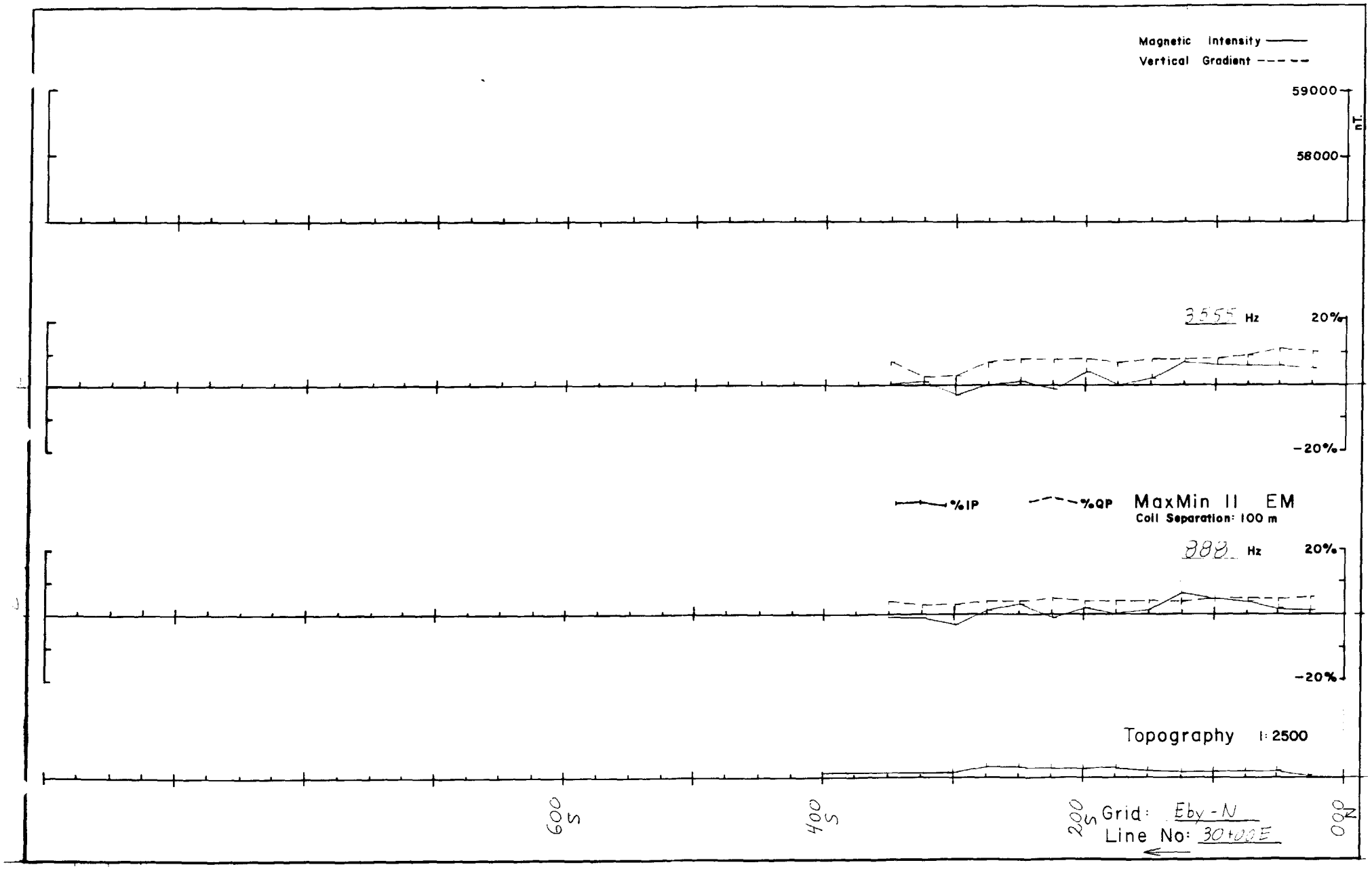

Magnetic Intensity
Vertical Gradient
59000
58000
nT.
286-N
3555 Hz
20%
-20%
%IP
%QP
MaxMin II EM
Coil Separation: 100 m
888 Hz
20%
-20%
Topography 1:2500
000N
100N
200N
300N
500N
Grid: Eby-N
Line No: 19+00 E

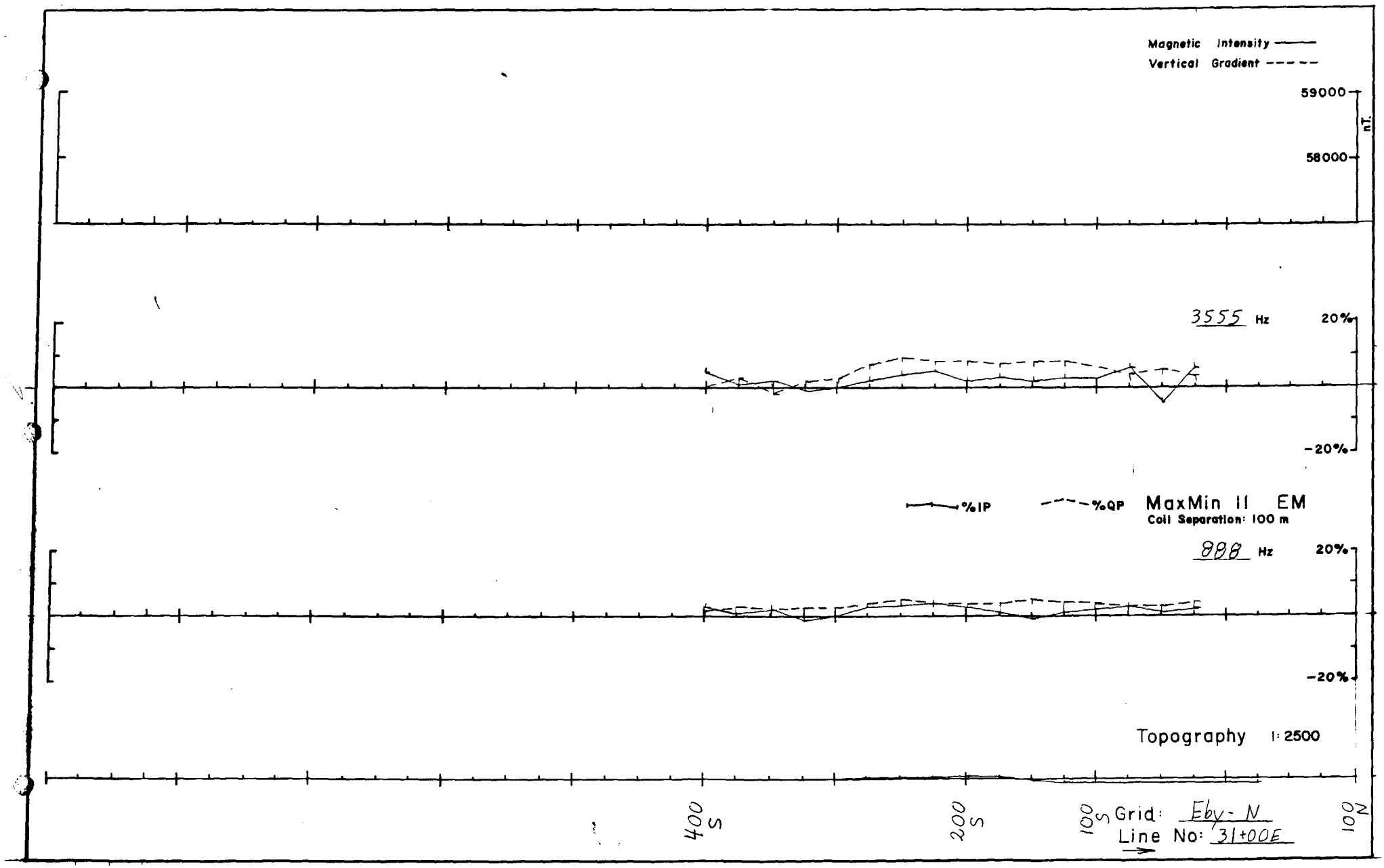

Magnetic Intensity
Vertical Gradient
59000
58000
nT.
325 N
3555 Hz
20%
-20%
%IP
%QP
MaxMin II EM
Coil Separation: 100 m
888 Hz
20%
-20%
Topography 1:2500
000 N
100 N
200 N
300 N
500 N
Grid: Eby-N
Line No: 20+00E

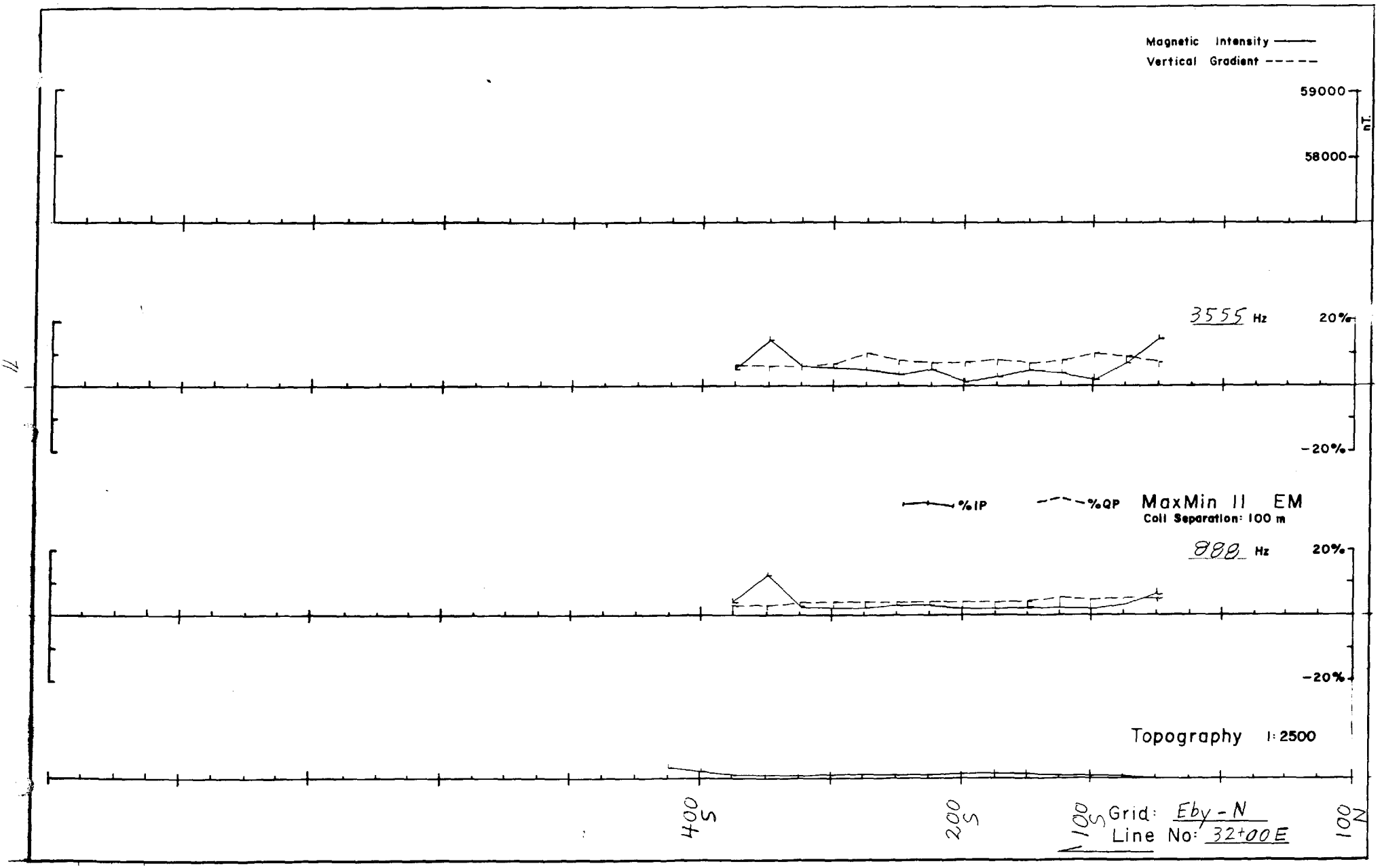

Magnetic Intensity
Vertical Gradient
59000
58000
325 N
3555 Hz
20%
-20%
%IP
%QP
MaxMin II EM
Coil Separation: 100 m
888 Hz
20%
-20%
Topography 1:2500
000N
100N
200N
300N
500N
Grid: Eby-N
Line No: 21+00E

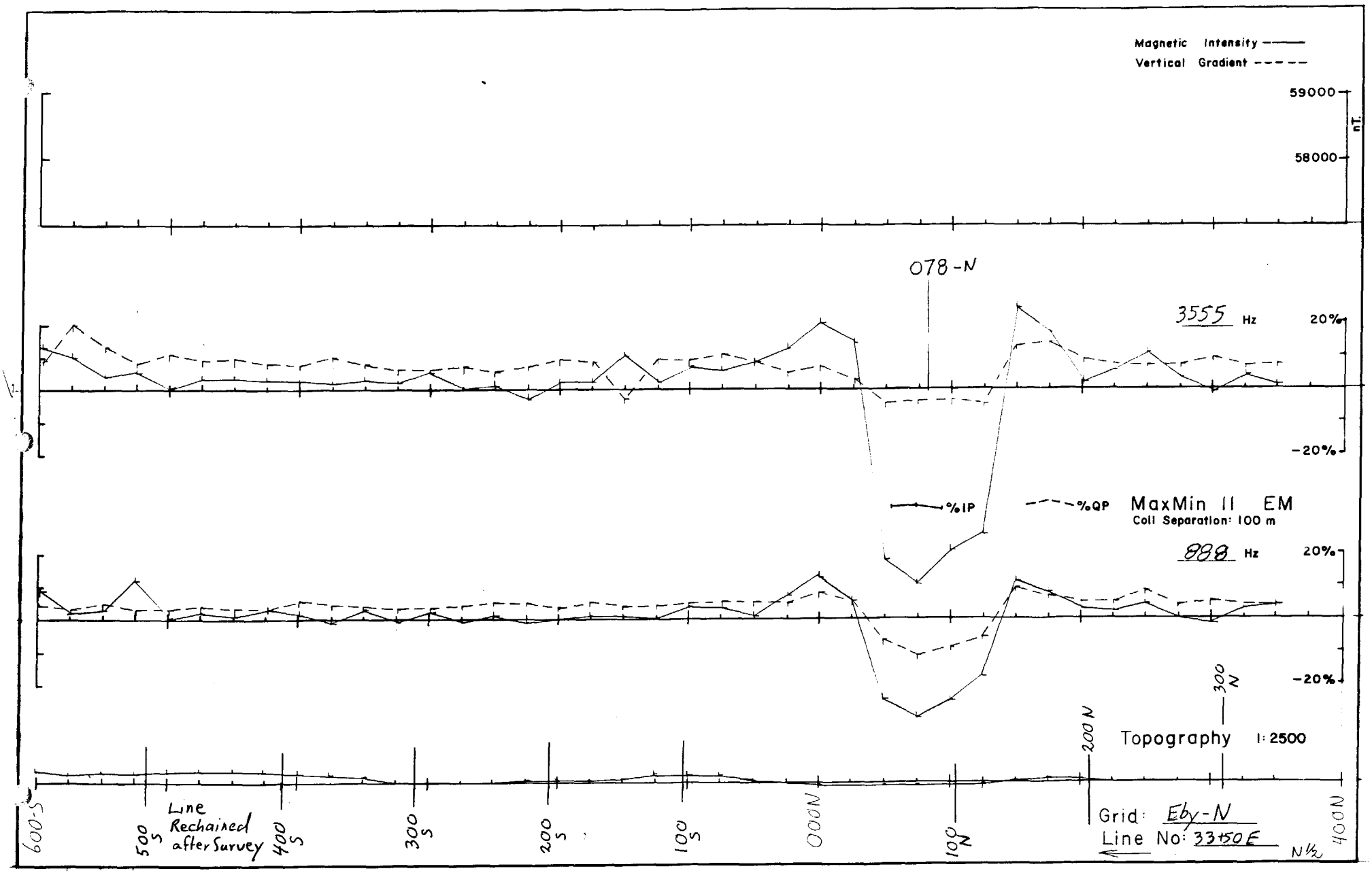

Magnetic Intensity
Vertical Gradient
59000
58000
nT.
338-N
3555 Hz
20%
?
-20%
%IP
%QP
MaxMin II EM
Coil Separation: 100 m
888 Hz
20%
-20%
Topography 1:2500
000N
100N
200N
300N
500N
Grid: Eby-N
Line No: 22+00E

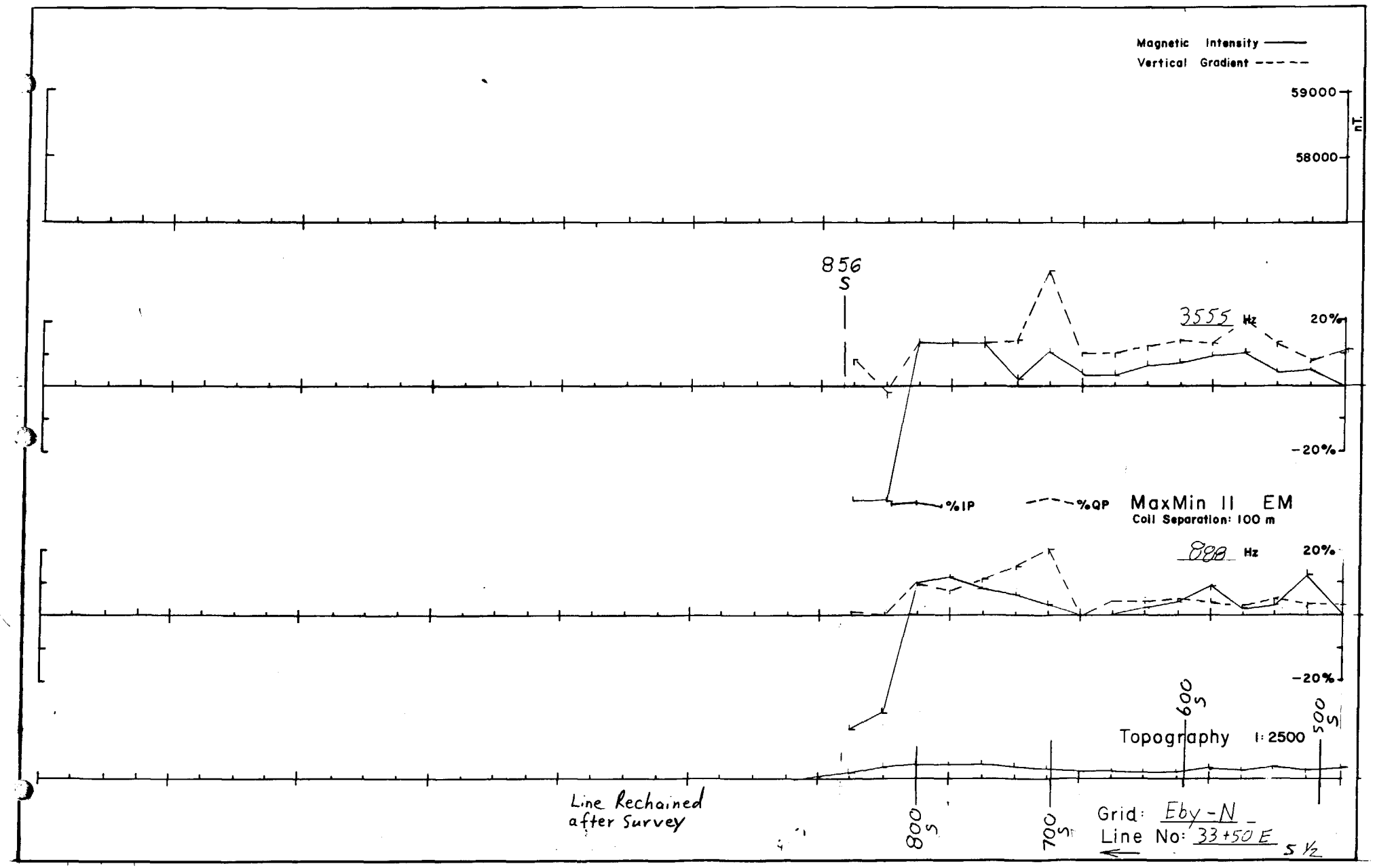

Magnetic Intensity
Vertical Gradient
59000
58000
nT.
310-N
Hz
20%
-20%
%IP
%QP
MaxMin II EM
Coil Separation: 100 m
Hz
20%
-20%
Topography 1:2500
000N
100N
200N
300N
500-N
Grid: Eby-N
Line No: 23+00E

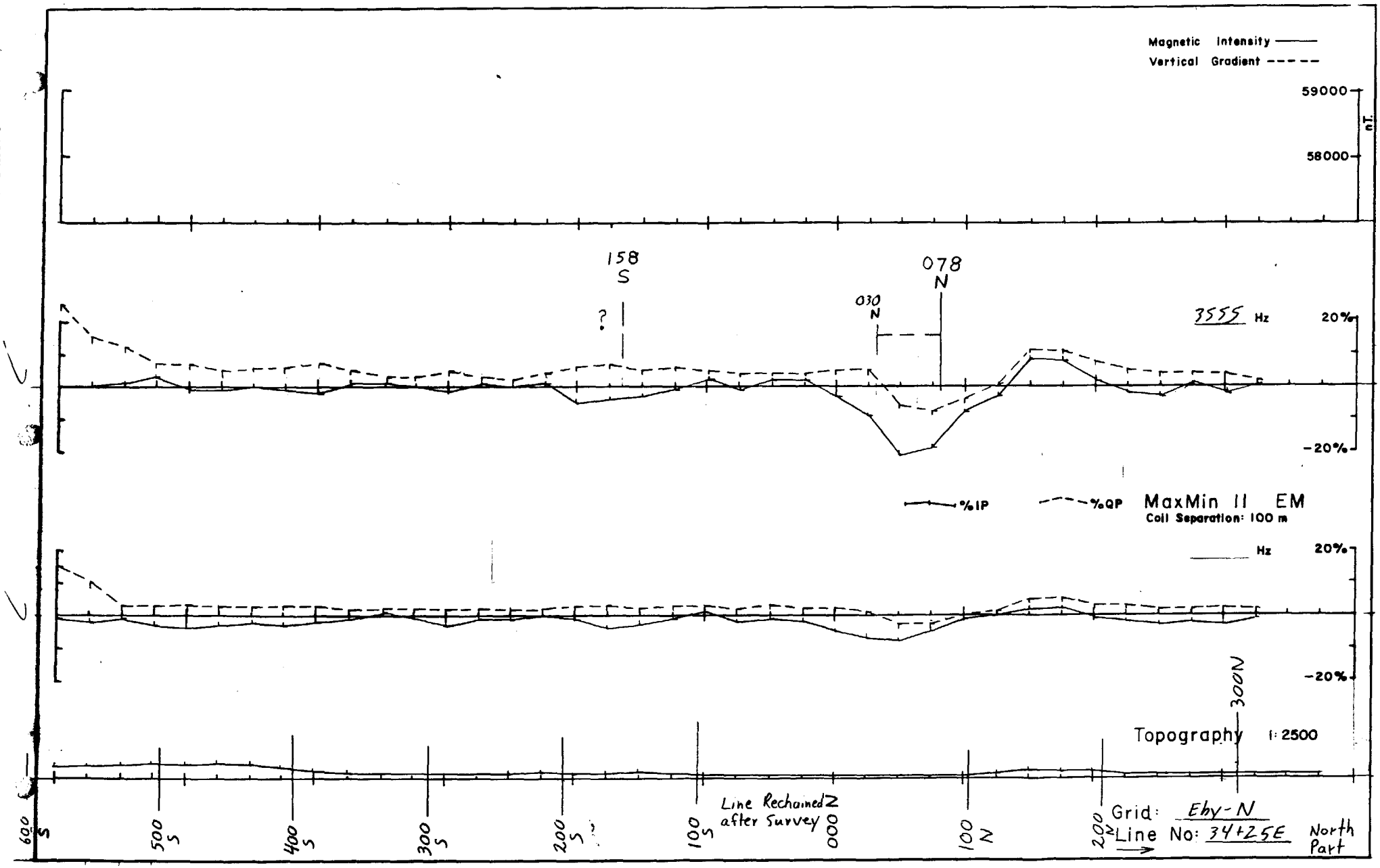

Magnetic Intensity
Vertical Gradient
59000
58000
nT.
3555 Hz
20%
-20%
%IP
%QP
MaxMin II EM
Coil Separation: 100 m
882 Hz
20%
-20%
Topography 1:2500
600 S
400 S
200 S
000 N
Grid: Eby - N
Line No: 30+00E

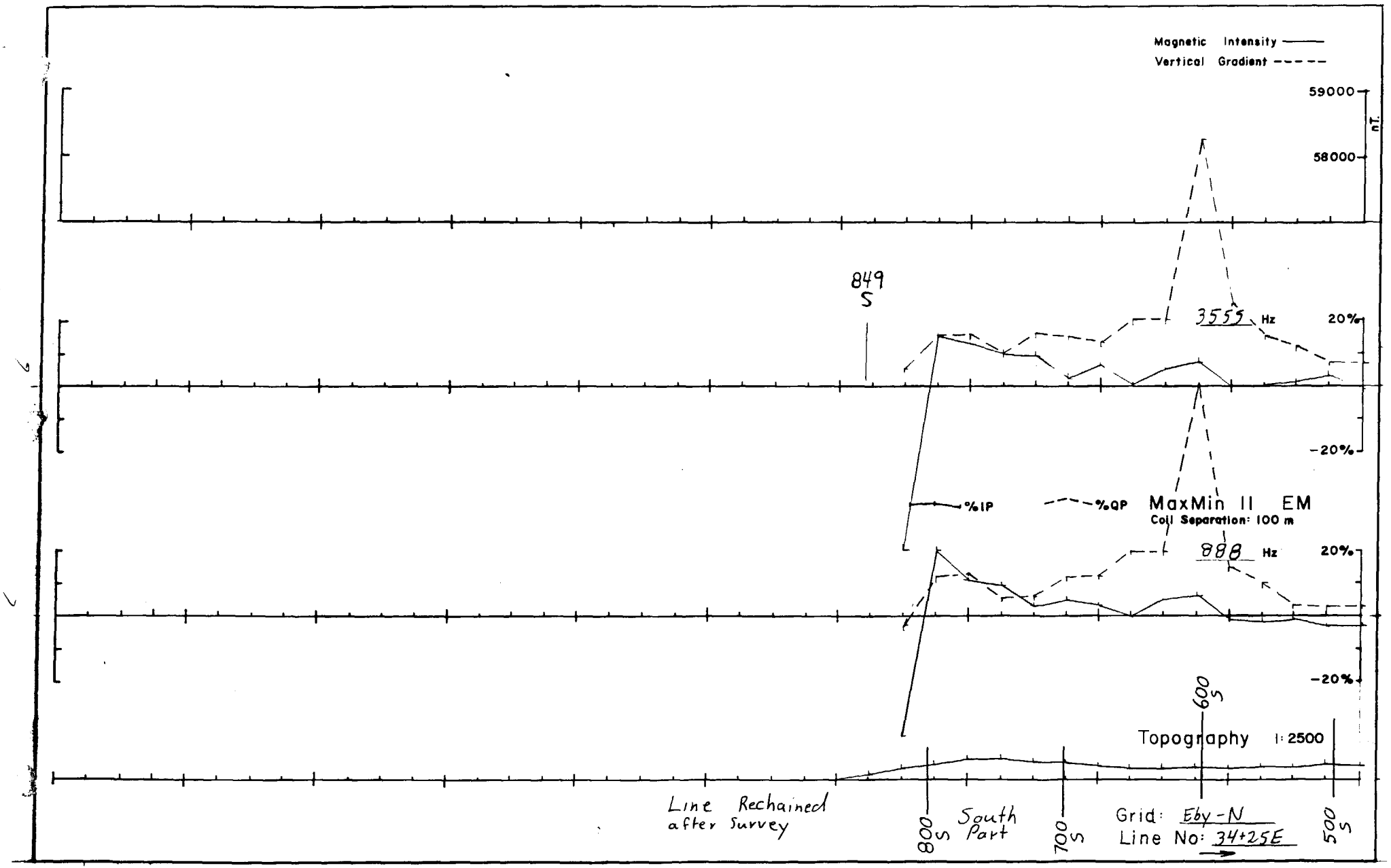

Magnetic Intensity
Vertical Gradient
59000
58000
nT
3555 Hz
20%
-20%
%IP
%QP
MaxMin II EM
Coil Separation: 100 m
888 Hz
20%
-20%
Topography 1:2500
400 S
200 S
100 S
100 N
Grid: Eby - N
Line No: 31+00E

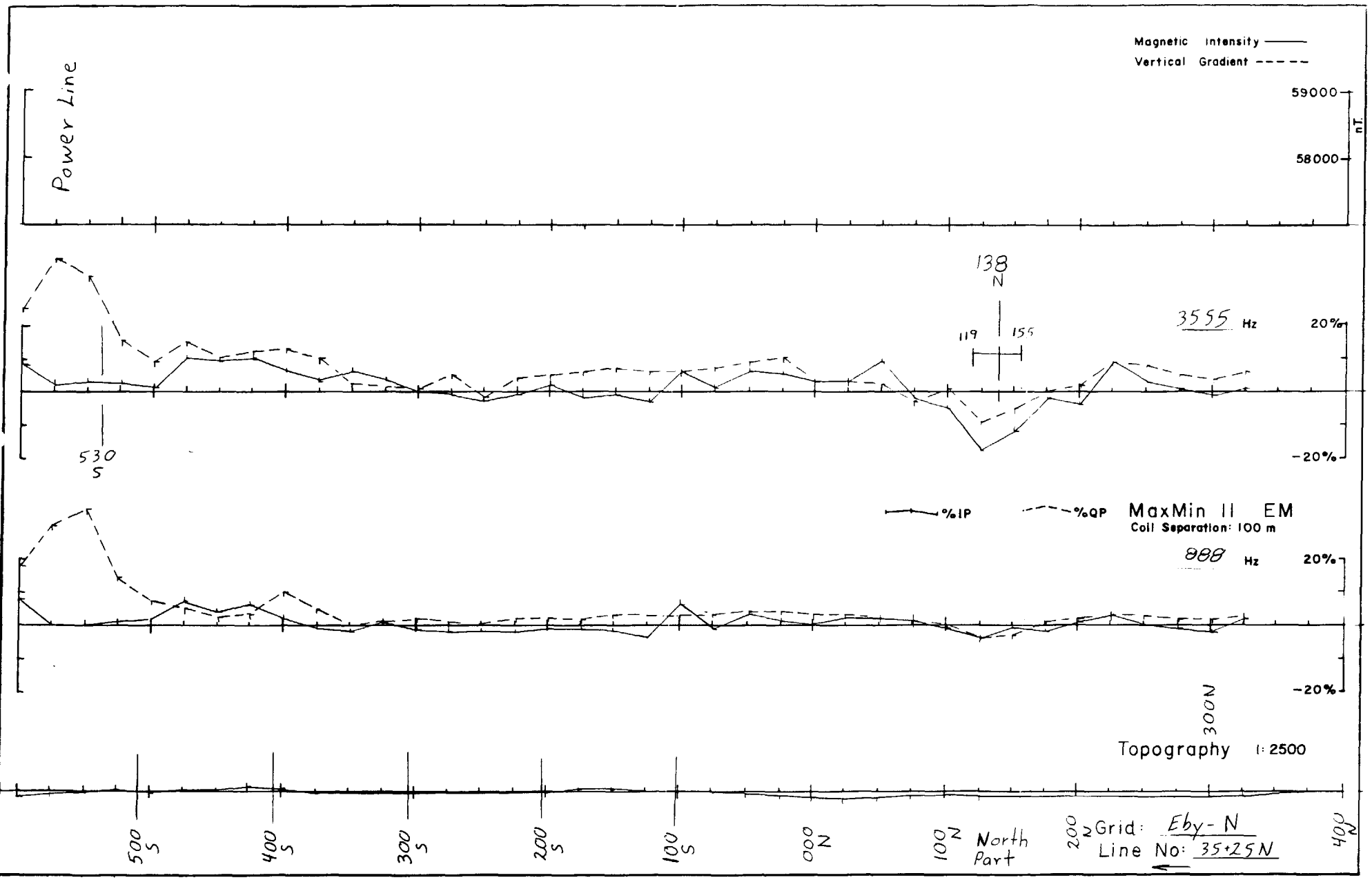

Magnetic Intensity
Vertical Gradient
59000
58000
nT.
3555 Hz
20%
-20%
%IP
%QP
MaxMin II EM
Coil Separation: 100 m
888 Hz
20%
-20%
Topography 1:2500
400 S
200 S
100 S
Grid: Eby - N
Line No: 32+00E
100 N

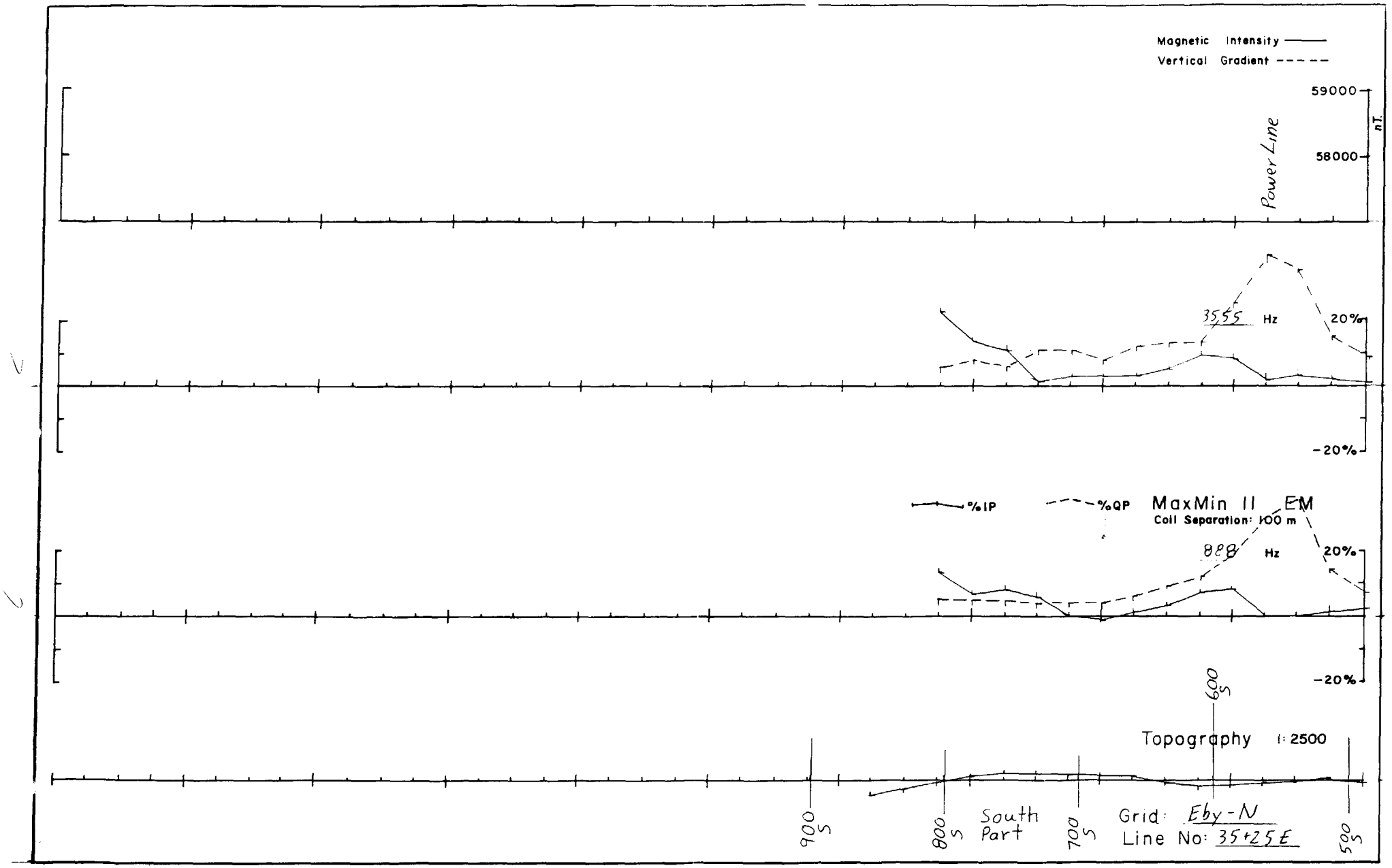

Magnetic Intensity
Vertical Gradient
59000
58000
nT.
078-N
3555 Hz
20%
-20%
%IP
%QP
MaxMin II EM
Coil Separation: 100 m
888 Hz
20%
-20%
300 N
200 N
Topography 1:2500
600-S
500 S
Line Rechained after Survey
400 S
300 S
200 S
100 S
000N
100 N
Grid: Eby-N
Line No: 33+50E
N½
400N

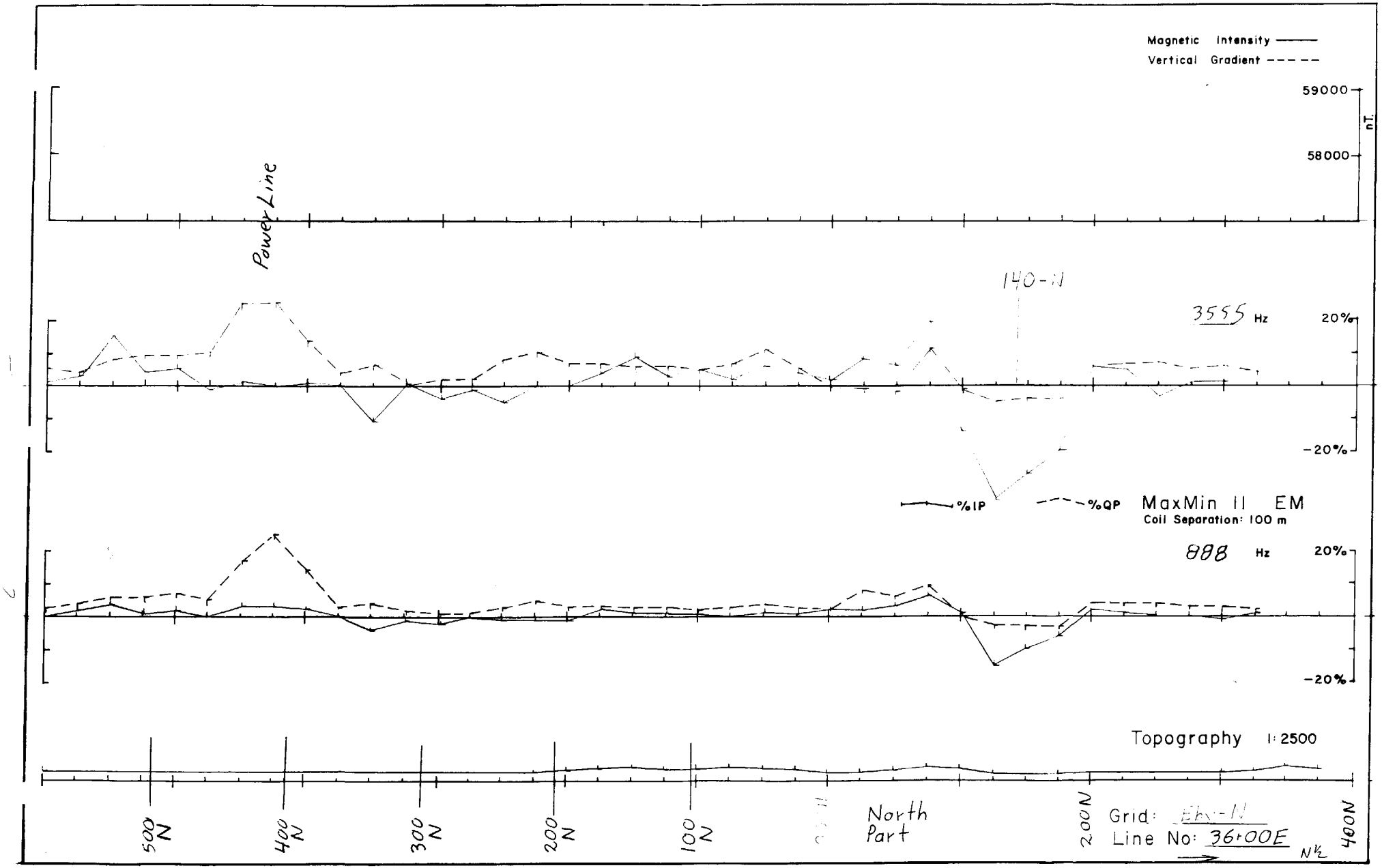

Magnetic Intensity
Vertical Gradient
59000
58000
nT.
856 S
3555 Hz
20%
-20%
%IP
%QP
MaxMin II EM
Coil Separation: 100 m
888 Hz
20%
-20%
600 S
500 S
Topography 1:2500
Line Rechained after Survey
800 S
700 S
Grid: Eby-N
Line No: 33+50 E
5 1/2

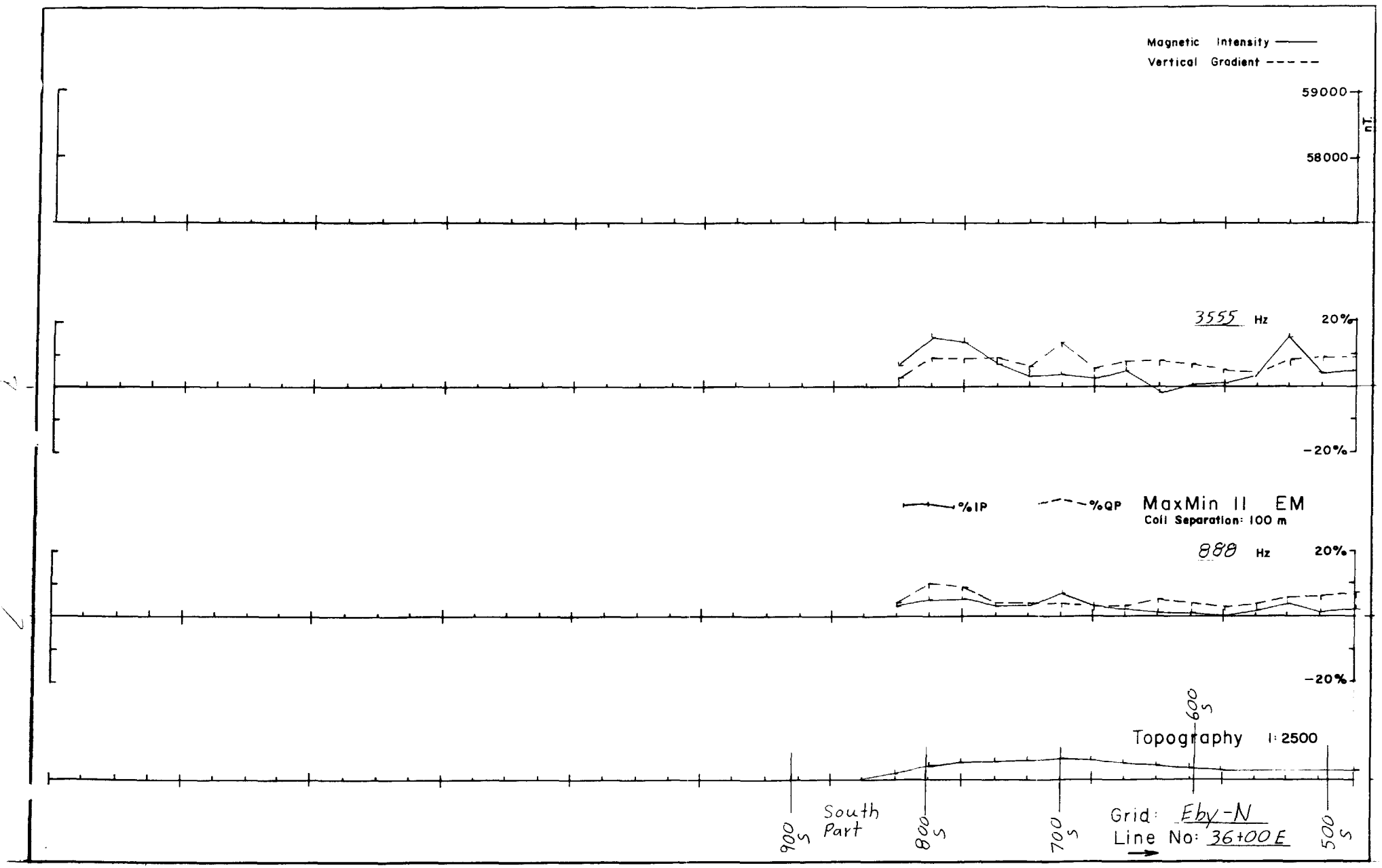

Magnetic Intensity
Vertical Gradient
59000
58000
nT
158 S
?
078 N
030 N
3555 Hz
20%
-20%
%IP
%QP
MaxMin II EM
Coil Separation: 100 m
Hz
20%
-20%
300N
Topography 1:2500
600 S
500 S
400 S
300 S
200 S
100 S
Line Rechained after Survey
000
100 N
200 N
Grid: Eby-N
Line No: 34+25E
North Part

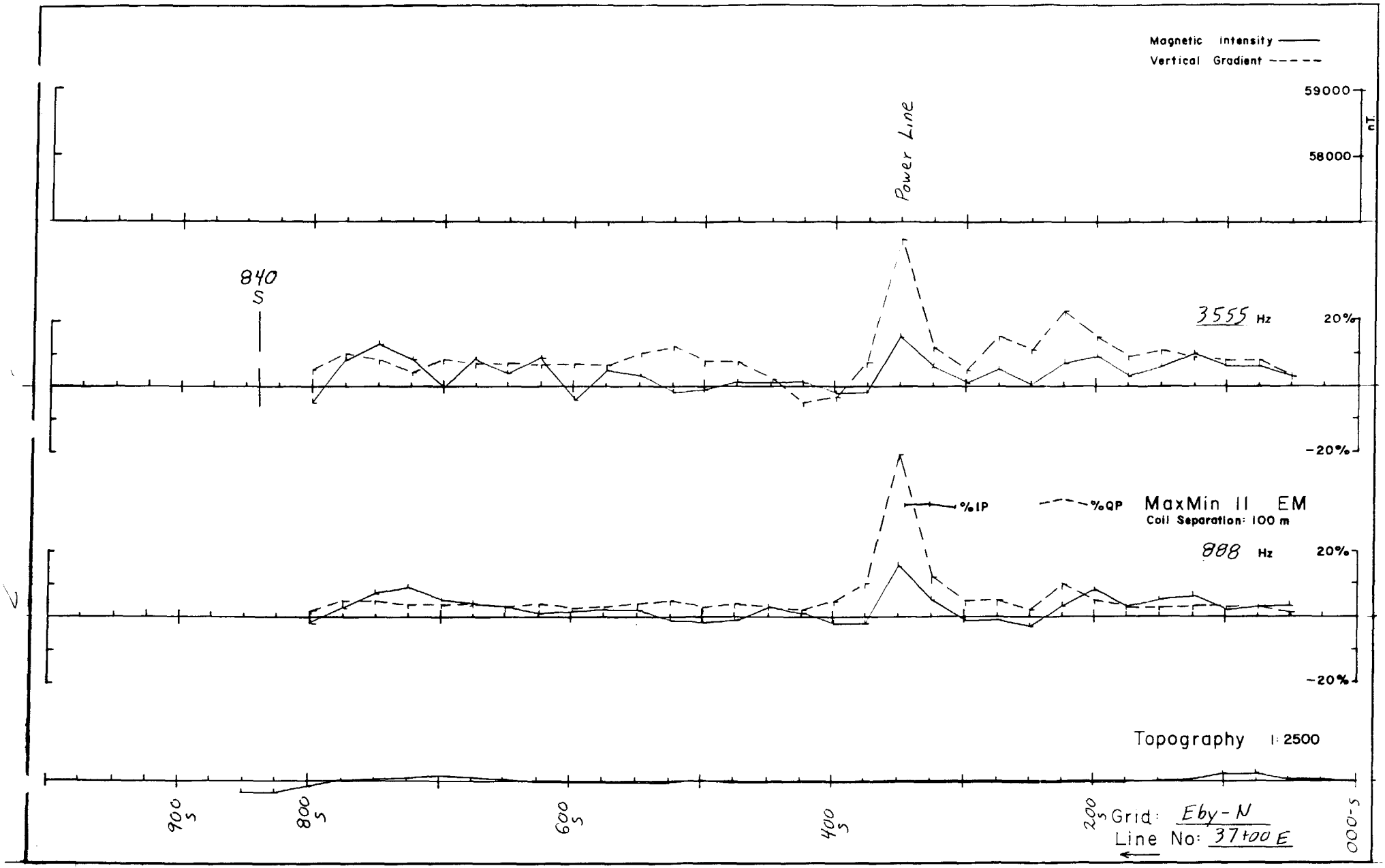

Magnetic Intensity
Vertical Gradient
59000
58000
nT.
849
S
3555 Hz
20%
-20%
%IP
%QP
MaxMin II EM
Coil Separation: 100 m
888 Hz
20%
-20%
600
S
Topography 1:2500
Line Rechained
after Survey
800
S
South
Part
700
S
Grid: Eby-N
Line No: 34+25E
500
S

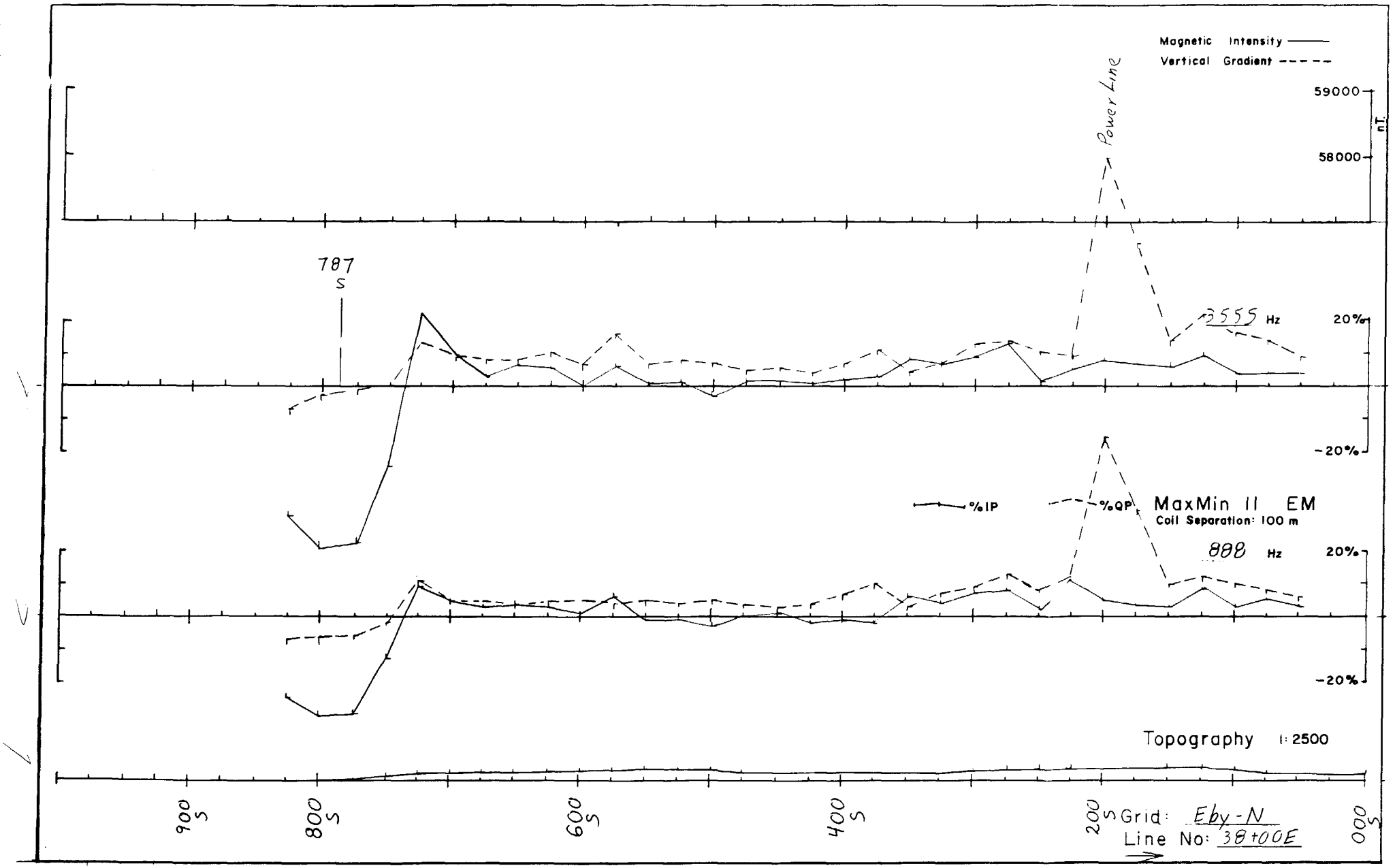

Magnetic Intensity
Vertical Gradient
Power Line
59000
58000
nT.
138
N
119
155
3555 Hz
20%
-20%
530
S
%IP
%QP
MaxMin II EM
Coil Separation: 100 m
888 Hz
20%
-20%
300N
Topography 1:2500
500 S
400 S
300 S
200 S
100 S
000 N
100 N
North Part
200 N
400 N
Grid: Eby-N
Line No: 35+25N

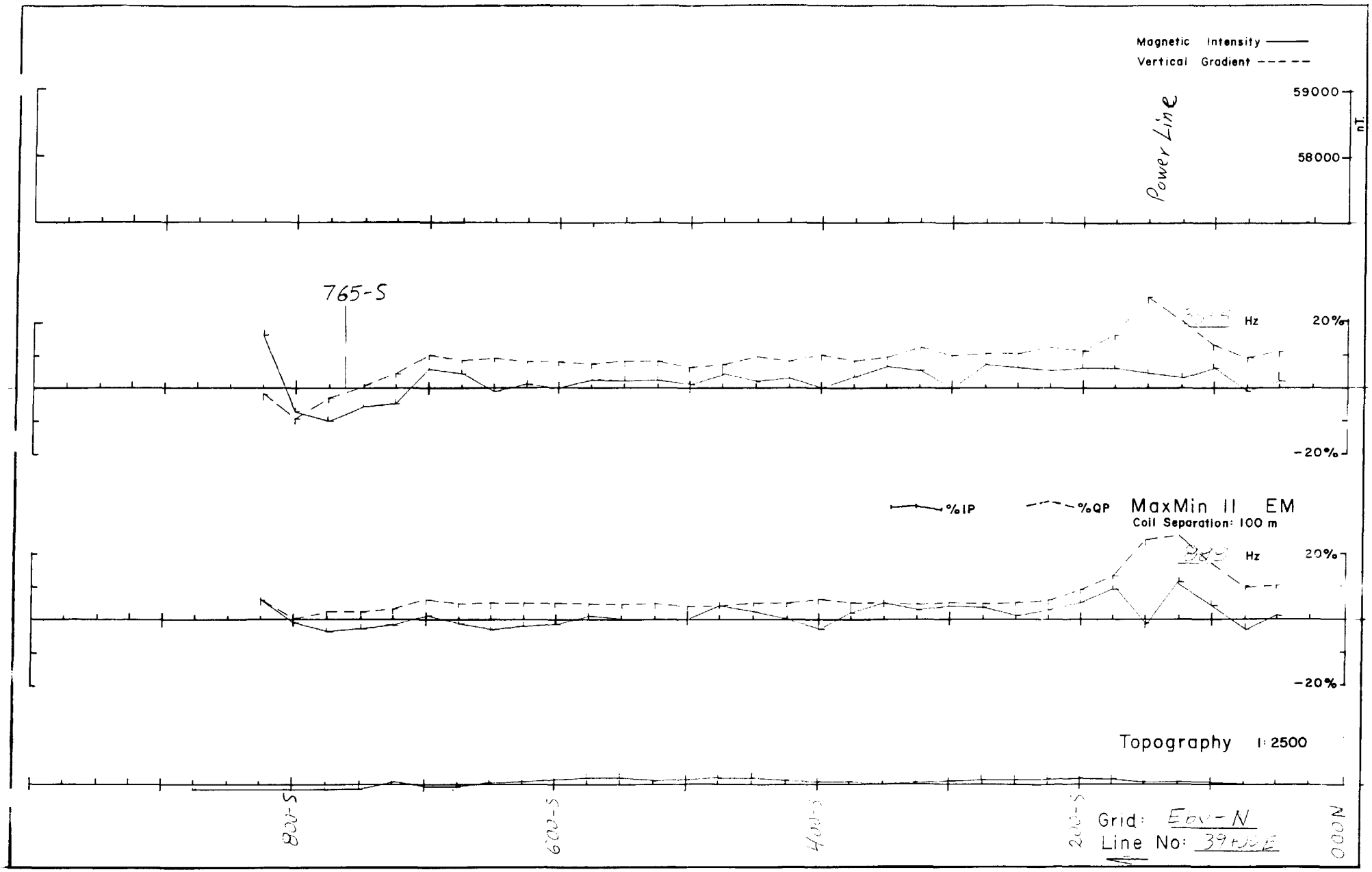

Magnetic Intensity
Vertical Gradient
59000
58000
nT.
Power Line
3555 Hz
20%
-20%
%IP
%QP
MaxMin II EM
Coil Separation: 100 m
888 Hz
20%
-20%
600 S
Topography 1:2500
900 S
800 S
South Part
700 S
Grid: Eby-N
Line No: 35+25E
500 S

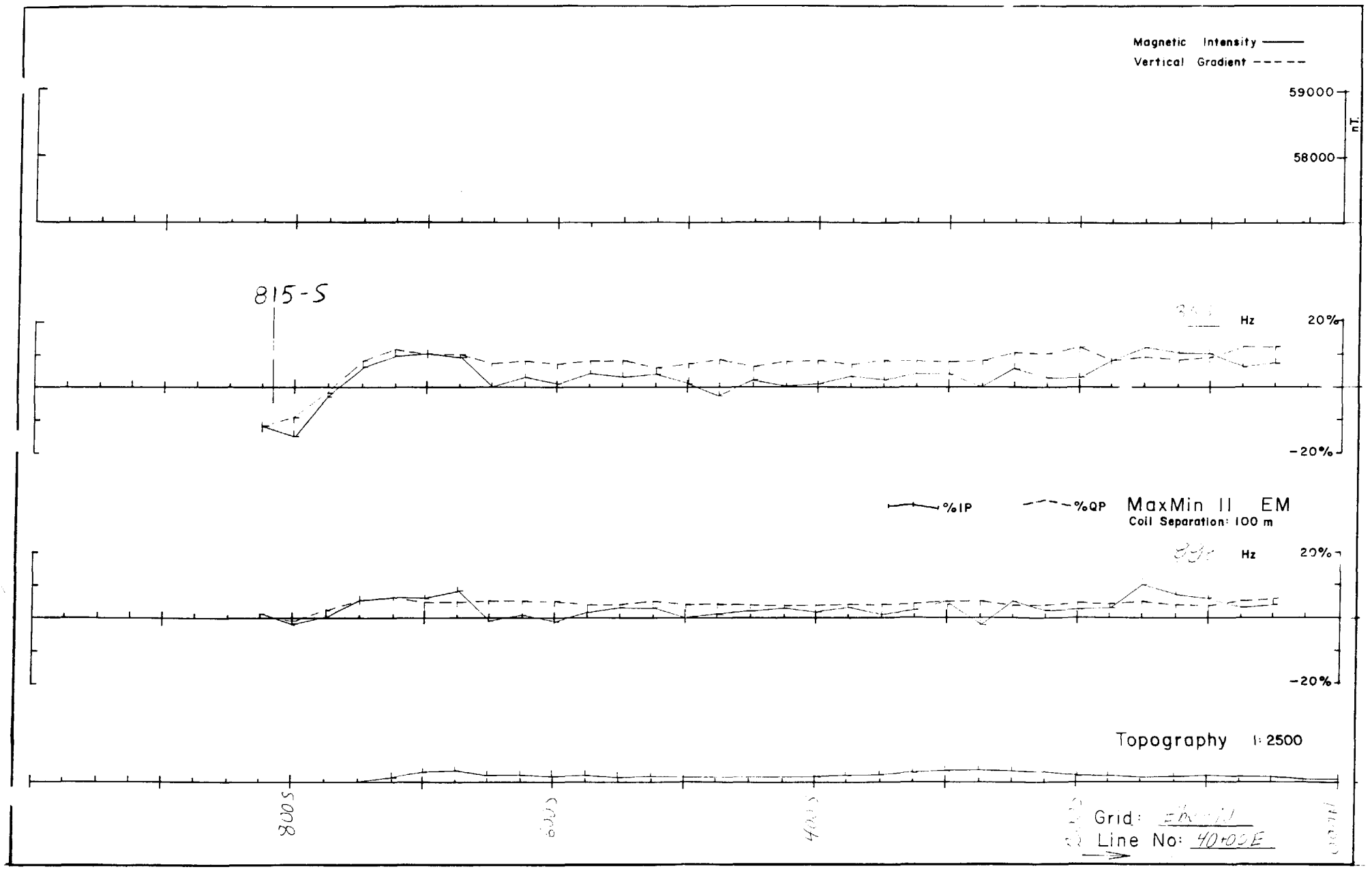

Magnetic Intensity
Vertical Gradient
59000
58000
nT.
Power Line
140-N
3555 Hz
20%
-20%
%IP
%QP
MaxMin II EM
Coil Separation: 100 m
888 Hz
20%
-20%
Topography 1:2500
500 N
400 N
300 N
200 N
100 N
North Part
200N
400N
Grid: Eh-N
Line No: 36+00E
N½

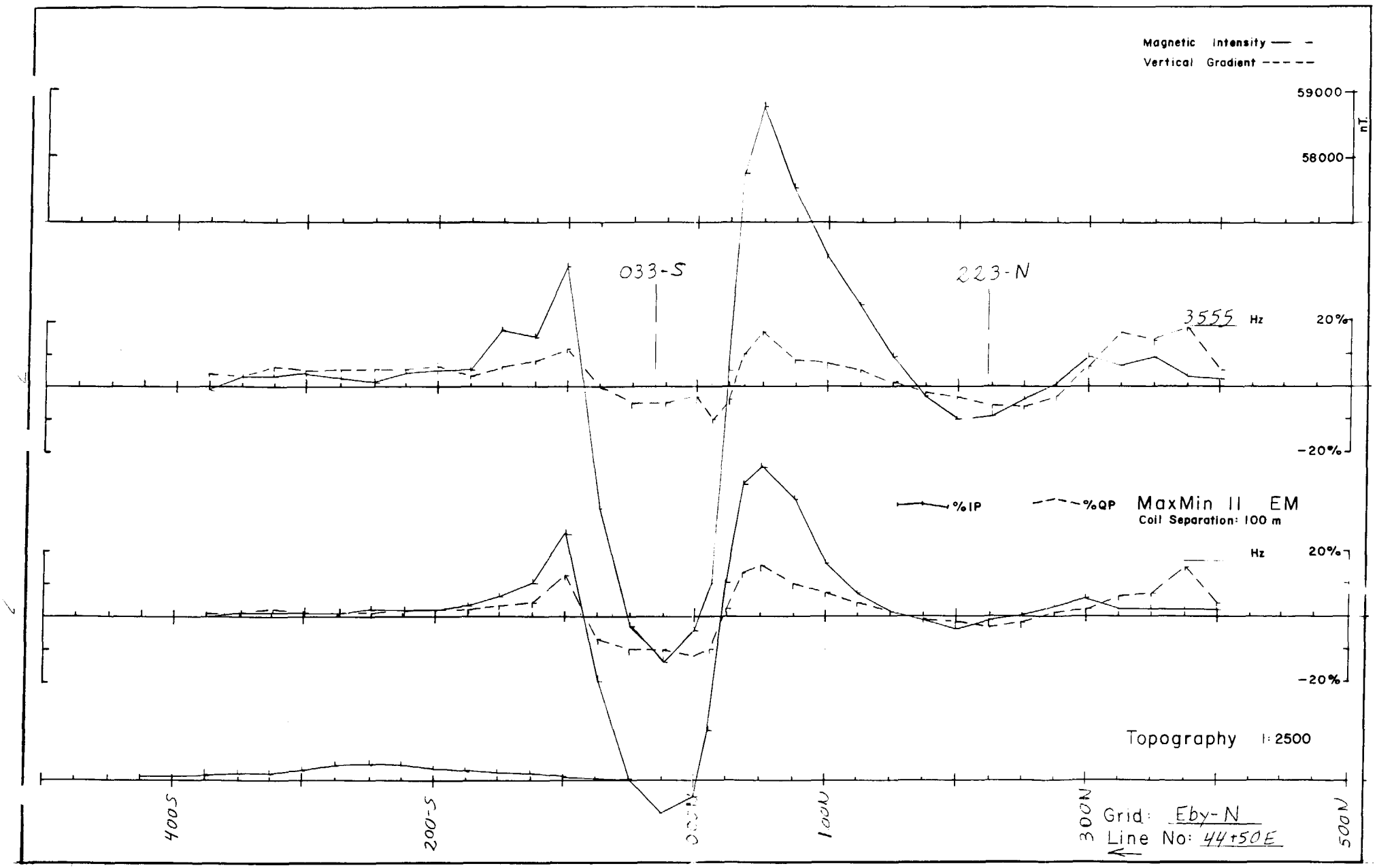

Magnetic Intensity
Vertical Gradient
59000
58000
nT
3555 Hz
20%
-20%
%IP
%QP
MaxMin II EM
Coil Separation: 100 m
888 Hz
20%
-20%
Topography 1:2500
900 S
South Part
800 S
700 S
600 S
500 S
Grid: Eby-N
Line No: 36+00E

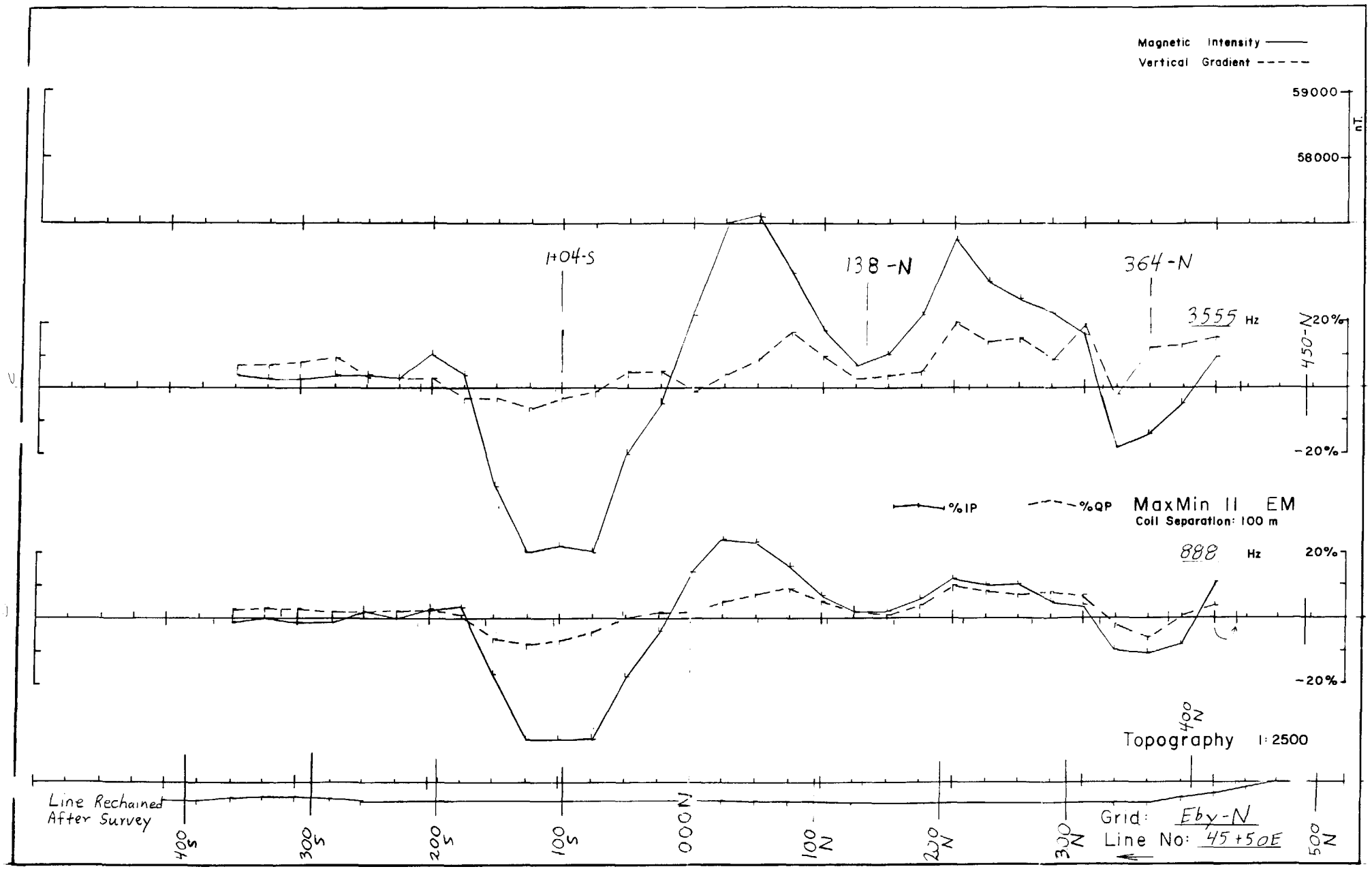

Magnetic Intensity
Vertical Gradient
59000
58000
nT.
Power Line
840
S
3555 Hz
20%
-20%
%IP
%QP
MaxMin II EM
Coil Separation: 100 m
888 Hz
20%
-20%
Topography 1:2500
900 S
800 S
600 S
400 S
200 S
000 S
Grid: Eby-N
Line No: 37+00 E

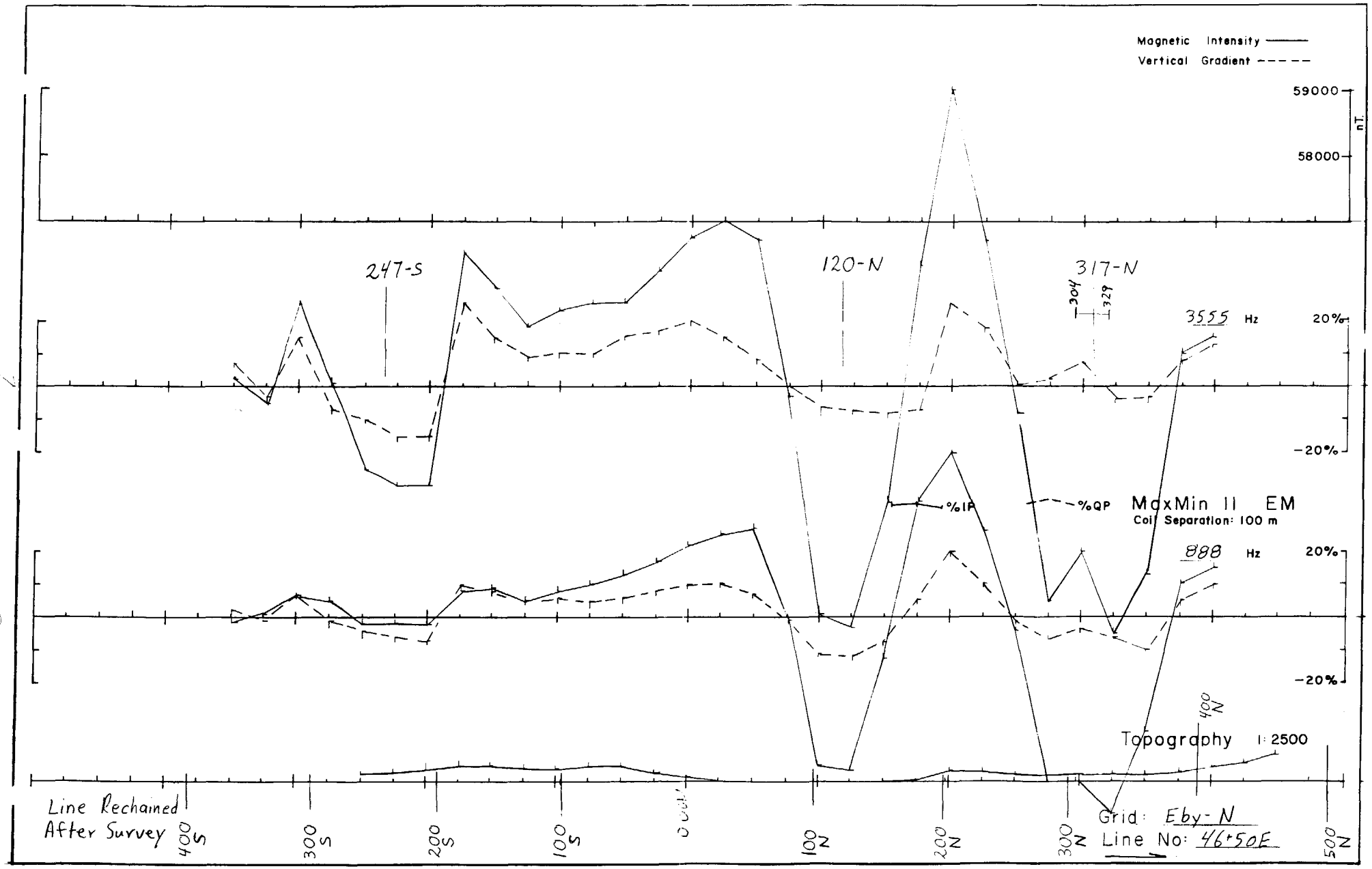

Magnetic Intensity
Vertical Gradient
59000
58000
nT.
Power Line
787
S
3555 Hz
20%
-20%
%IP
%QP
MaxMin II EM
Coil Separation: 100 m
888 Hz
20%
-20%
Topography 1:2500
900 S
800 S
600 S
400 S
200 S
000 S
Grid: Eby-N
Line No: 38+00E

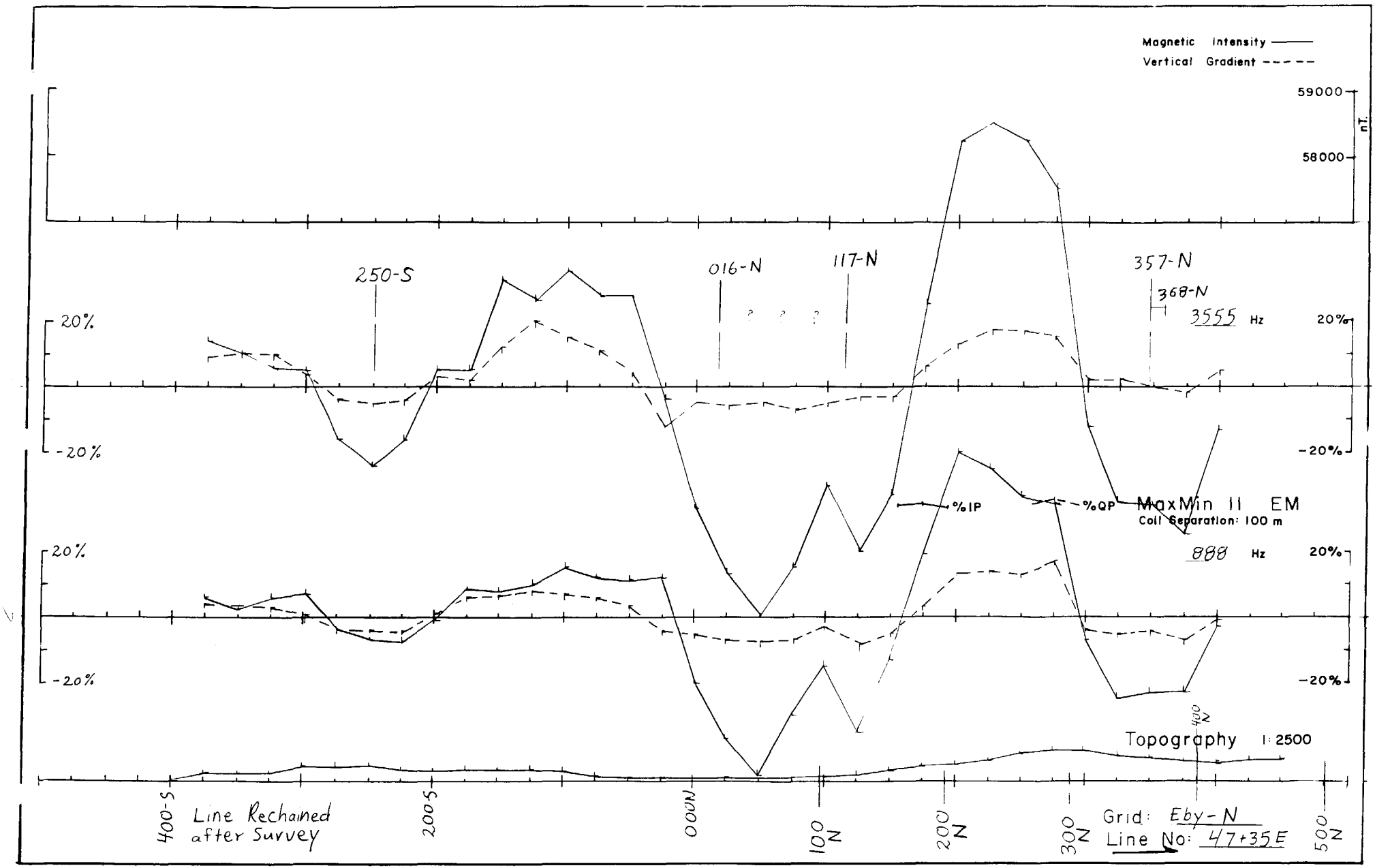

Magnetic Intensity
Vertical Gradient
59000
58000
nT
Power Line
765-S
Hz
20%
-20%
%IP
%QP
MaxMin II EM
Coil Separation: 100 m
Hz
20%
-20%
Topography 1:2500
800-S
600-S
400-S
200-S
000N
Grid: Ebw-N
Line No: 39+00E


Magnetic Intensity
Vertical Gradient
59000
58000
nT.
815-S
Hz
20%
-20%
%IP
%QP
MaxMin II EM
Coil Separation: 100 m
Hz
20%
-20%
Topography 1:2500
808
812
816
820
Grid: Ebenezer
Line No: 40+00E


Magnetic Intensity
Vertical Gradient
59000
58000
nT
033-S
223-N
3555 Hz
20%
-20%
%IP
%QP
MaxMin II EM
Coil Separation: 100 m
Hz
20%
-20%
Topography 1:2500
400S
200S
100N
300N
500N
Grid: Eby-N
Line No: 44+50E

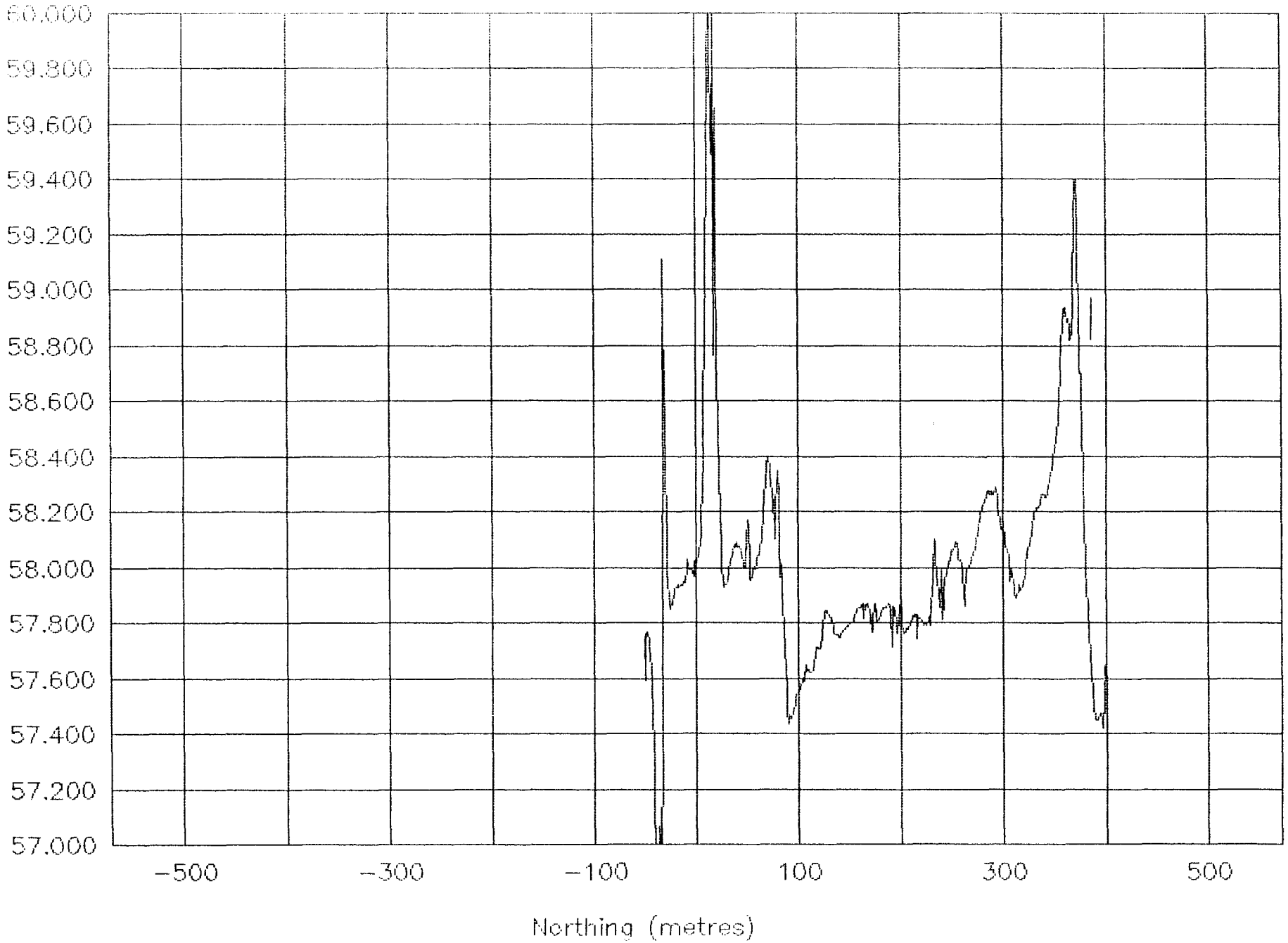

Magnetic Intensity
Vertical Gradient
59000
58000
nT.
1+04-S
138-N
364-N
3555 Hz
450-N
20%
-20%
%IP
%QP
MaxMin II EM
Coil Separation: 100 m
888 Hz
20%
-20%
400 N
Topography 1:2500
Line Rechained After Survey
400 S
300 S
200 S
100 S
000 N
100 N
200 N
300 N
500 N
Grid: Eby-N
Line No: 45+50E


Magnetic Intensity
Vertical Gradient
59000
58000
nT.
247-S
120-N
317-N
304
329
3555 Hz
20%
-20%
%IP
%QP
MaxMin II EM
Coil Separation: 100 m
888 Hz
20%
-20%
400 N
Topography 1:2500
Line Rechained After Survey
400 S
300 S
200 S
100 S
0
100 N
200 N
300 N
500 N
Grid: Eby-N
Line No: 46+50E


Magnetic Intensity
Vertical Gradient
59000
58000
nT
250-S
016-N
117-N
357-N
368-N
3555 Hz
20%
-20%
%IP
%QP
MaxMin II EM
Coil Separation: 100 m
888 Hz
Topography 1:2500
400-S
200S
000N
100N
200N
300N
400N
500N
Line Rechained after Survey
Grid: Eby-N
Line No: 47+35E

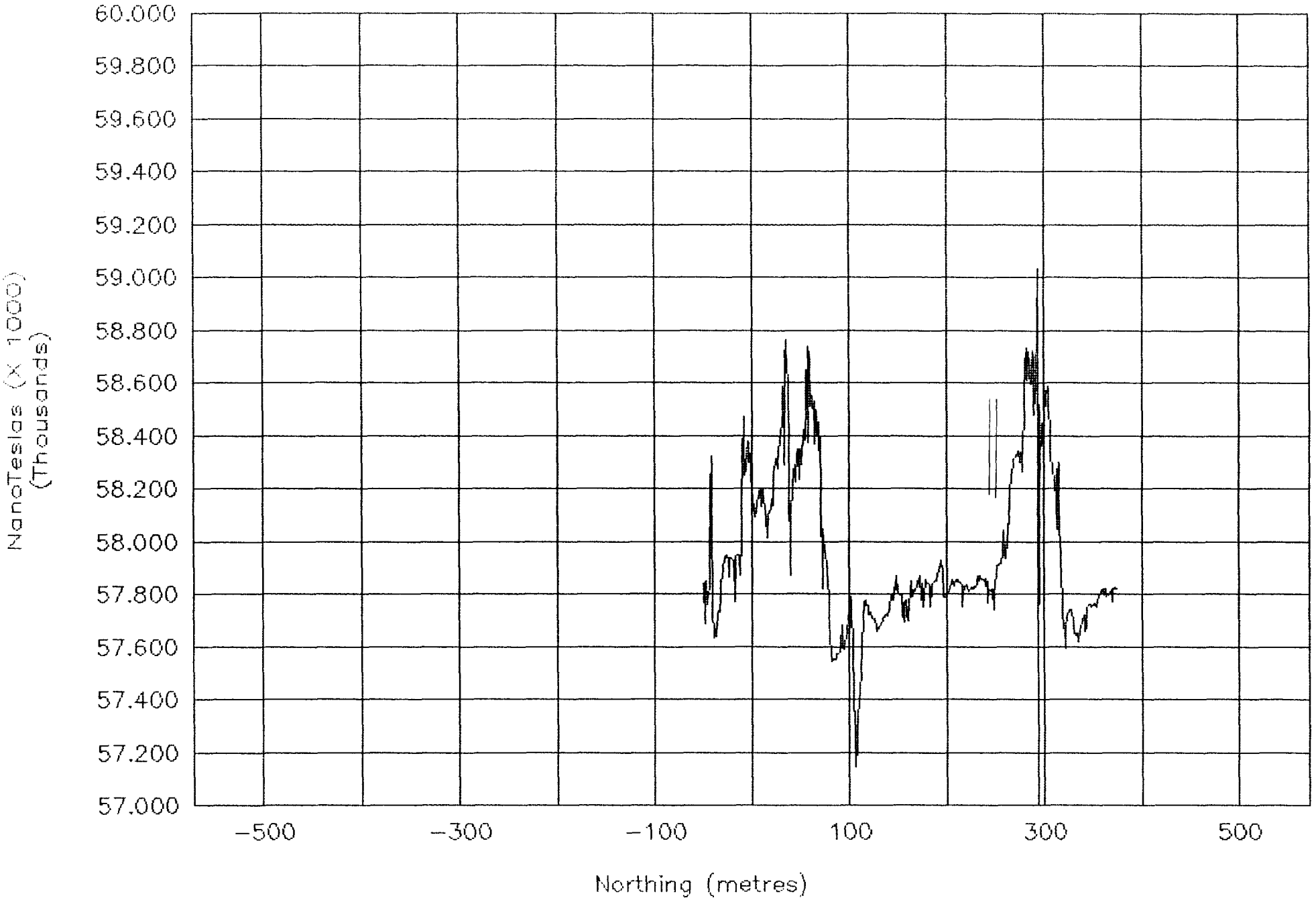
Total Magnetic Field Strength

EBY NORTH GRID: Line 1600E



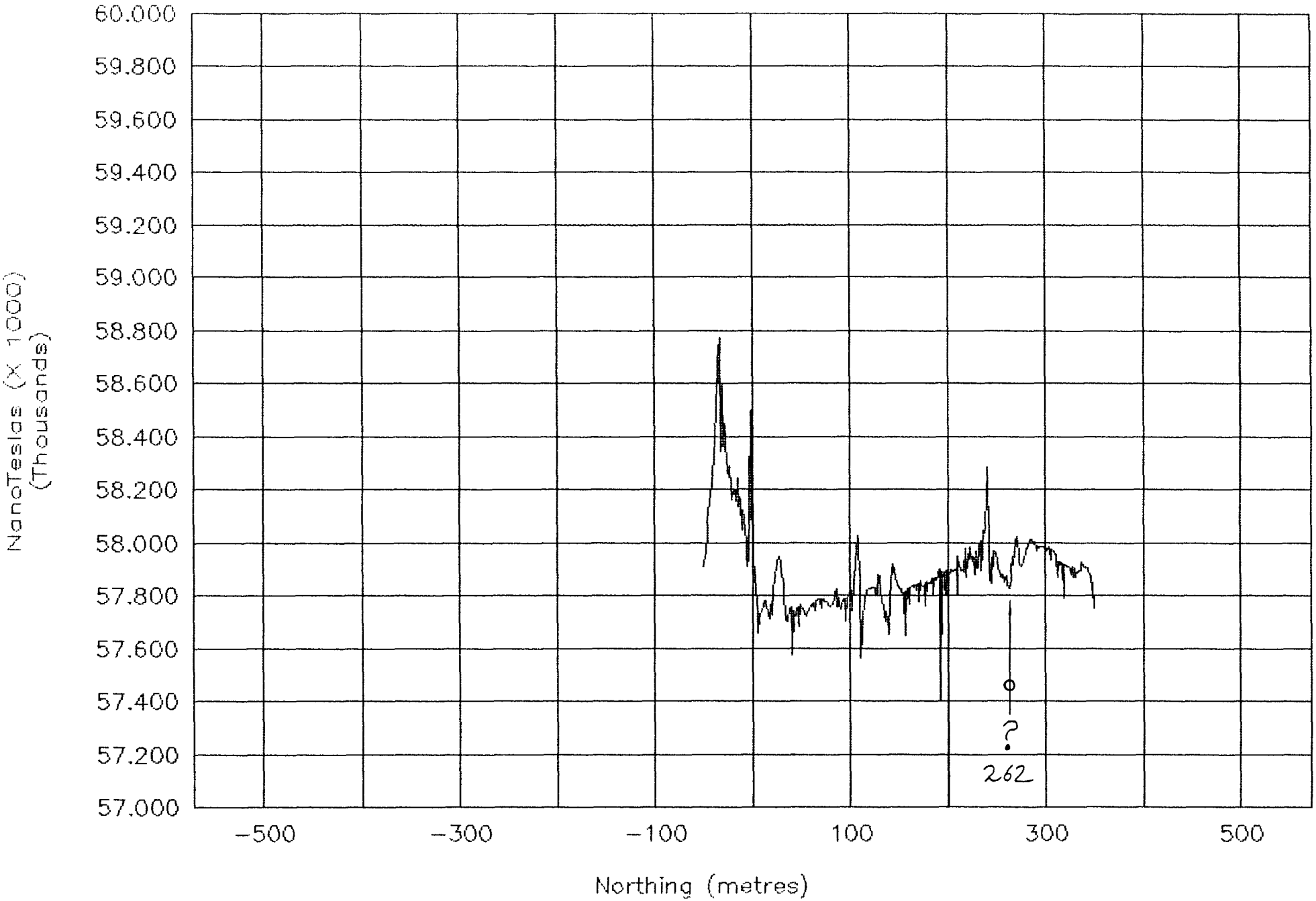
Total Magnetic Field Strength

EBY NORTH GRID: Line 1700E



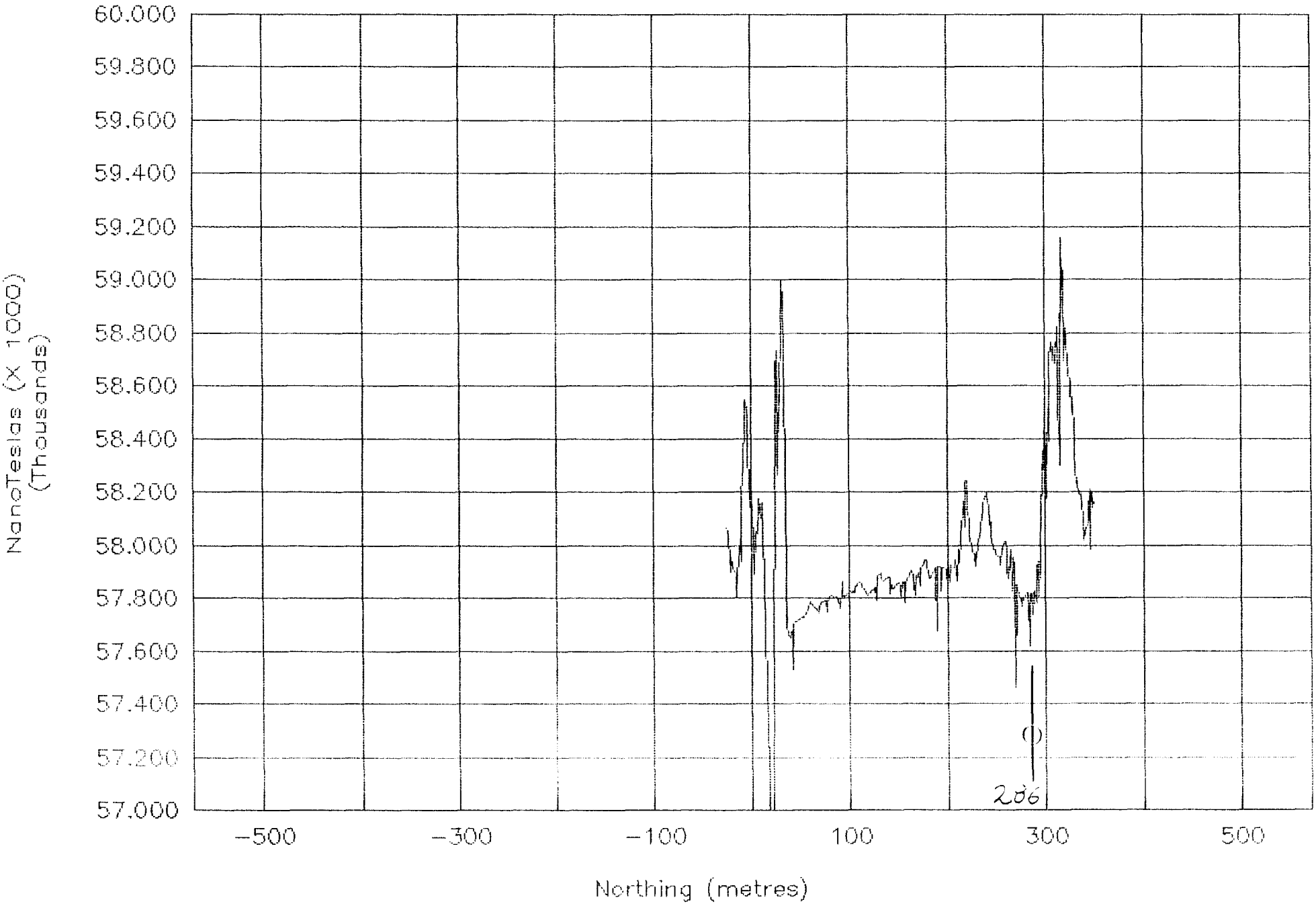
Total Magnetic Field Strength

EBY NORTH GRID: Line 1800E



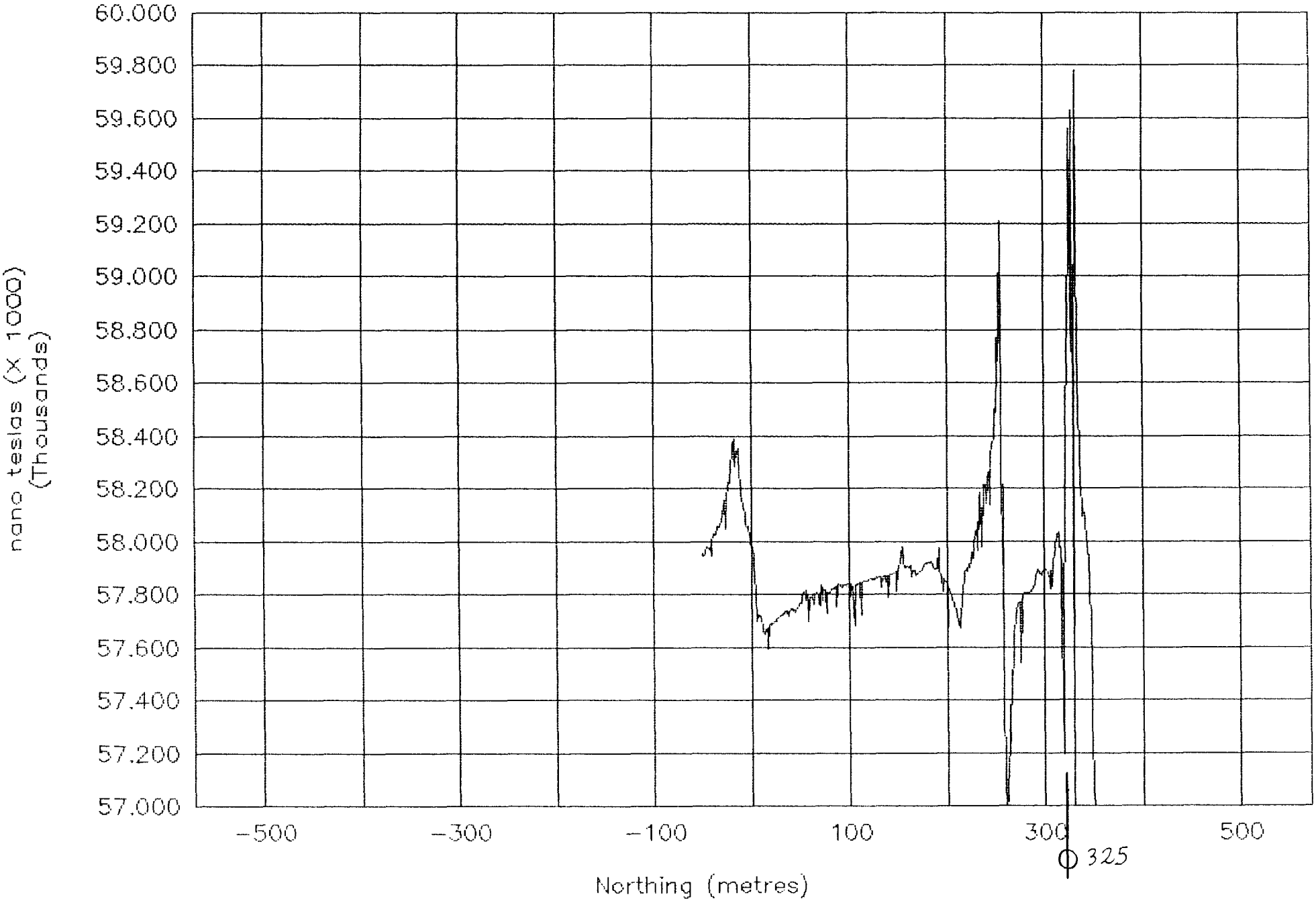
Total Magnetic Field Strength

EBY NORTH GRID: Line 1900E



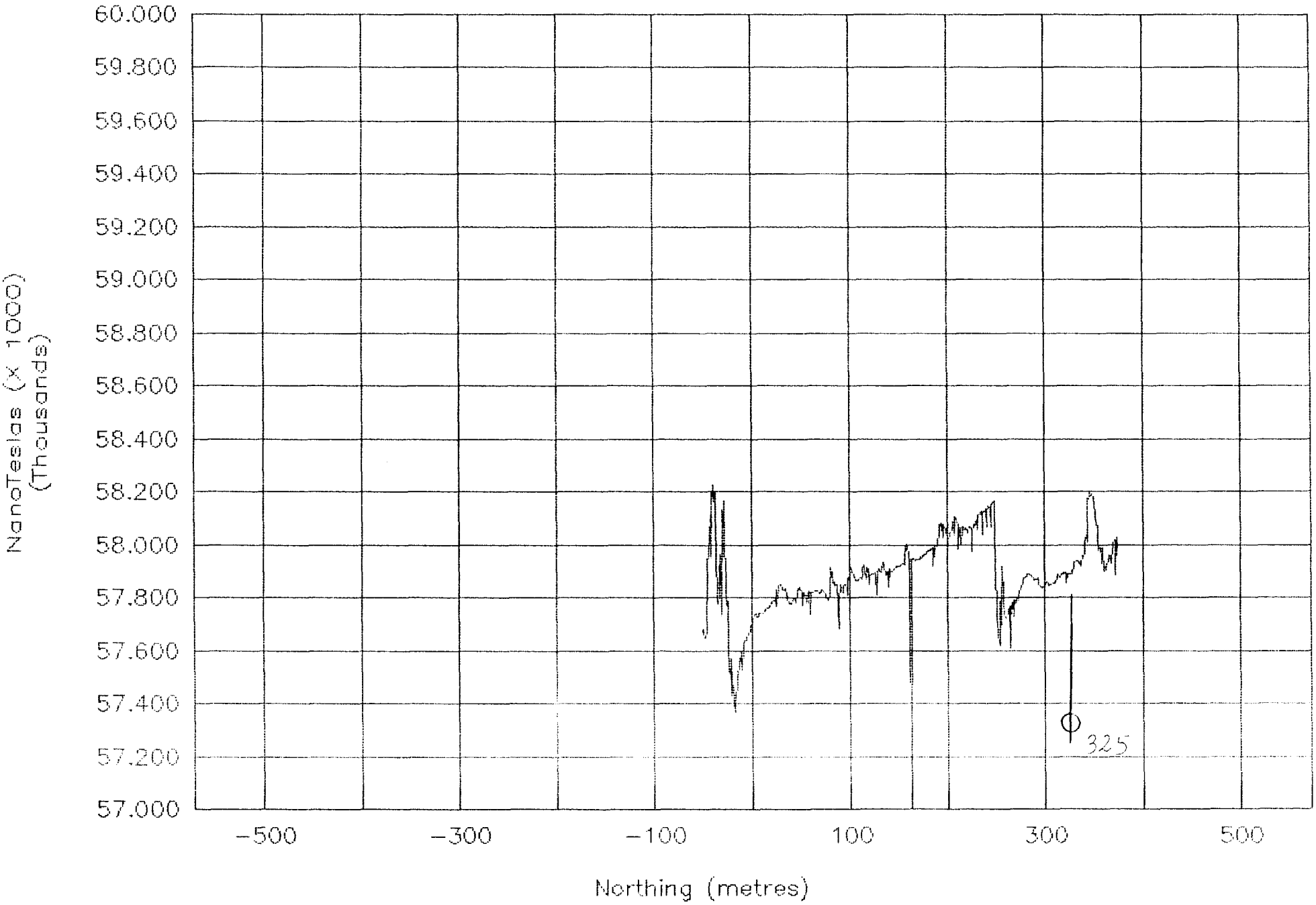
Total Magnetic Field Strength

EBY NORTH GRID: Line 2000E



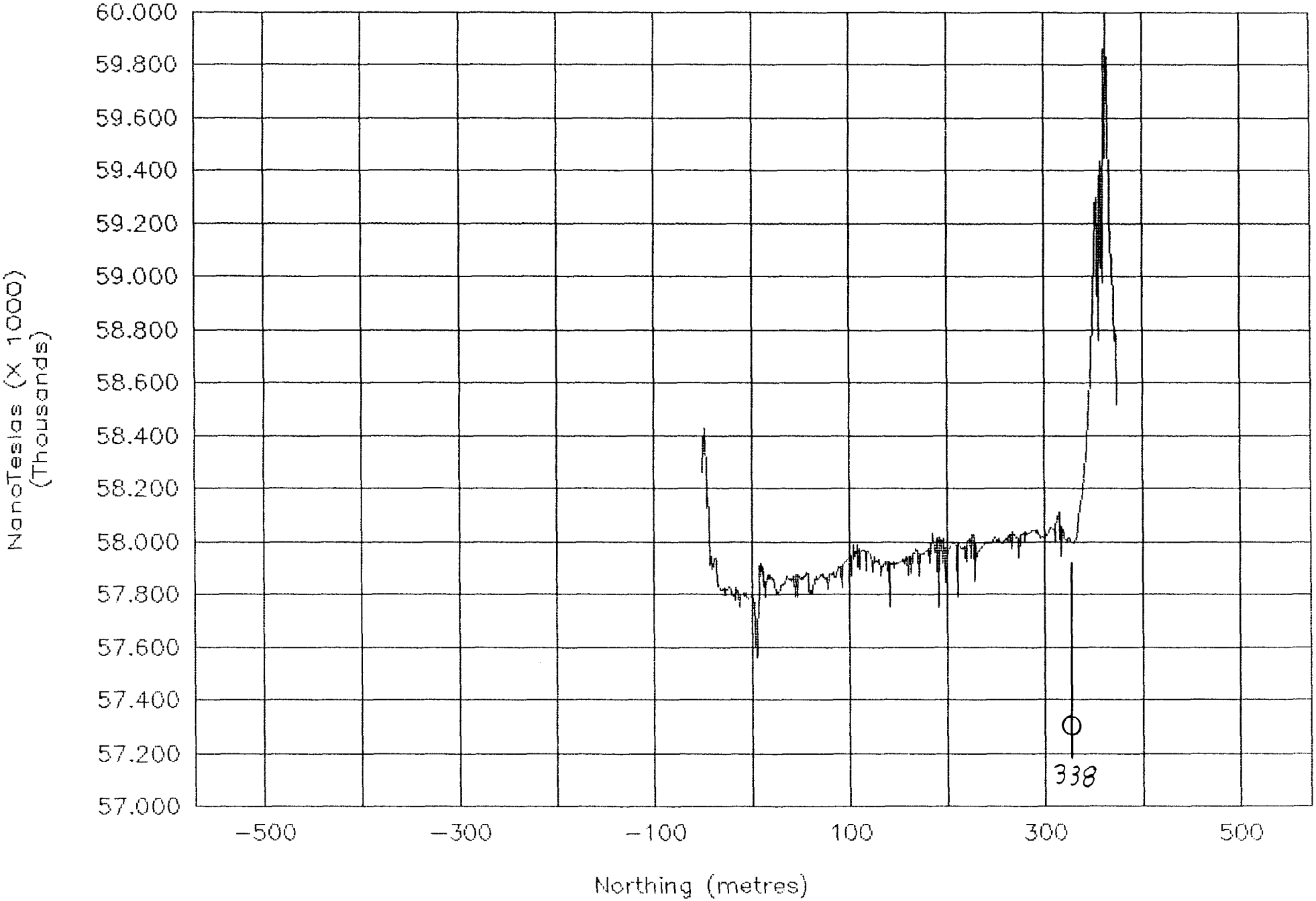
Total Magnetic Field Strength

EBY NORTH GRID: Line 2100E



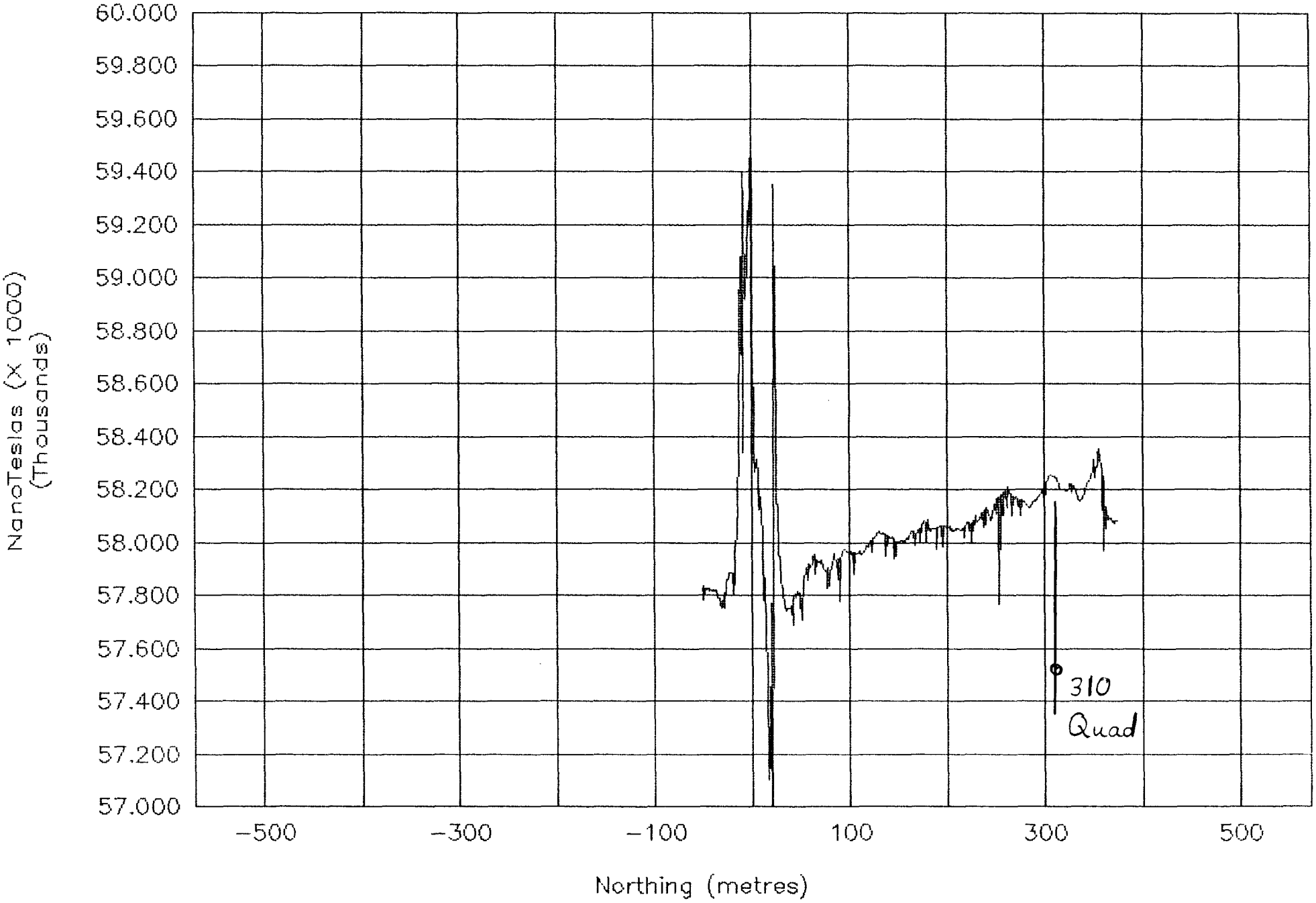
Total Magnetic Field Strength

EBY NORTH GRID: Line 2200E



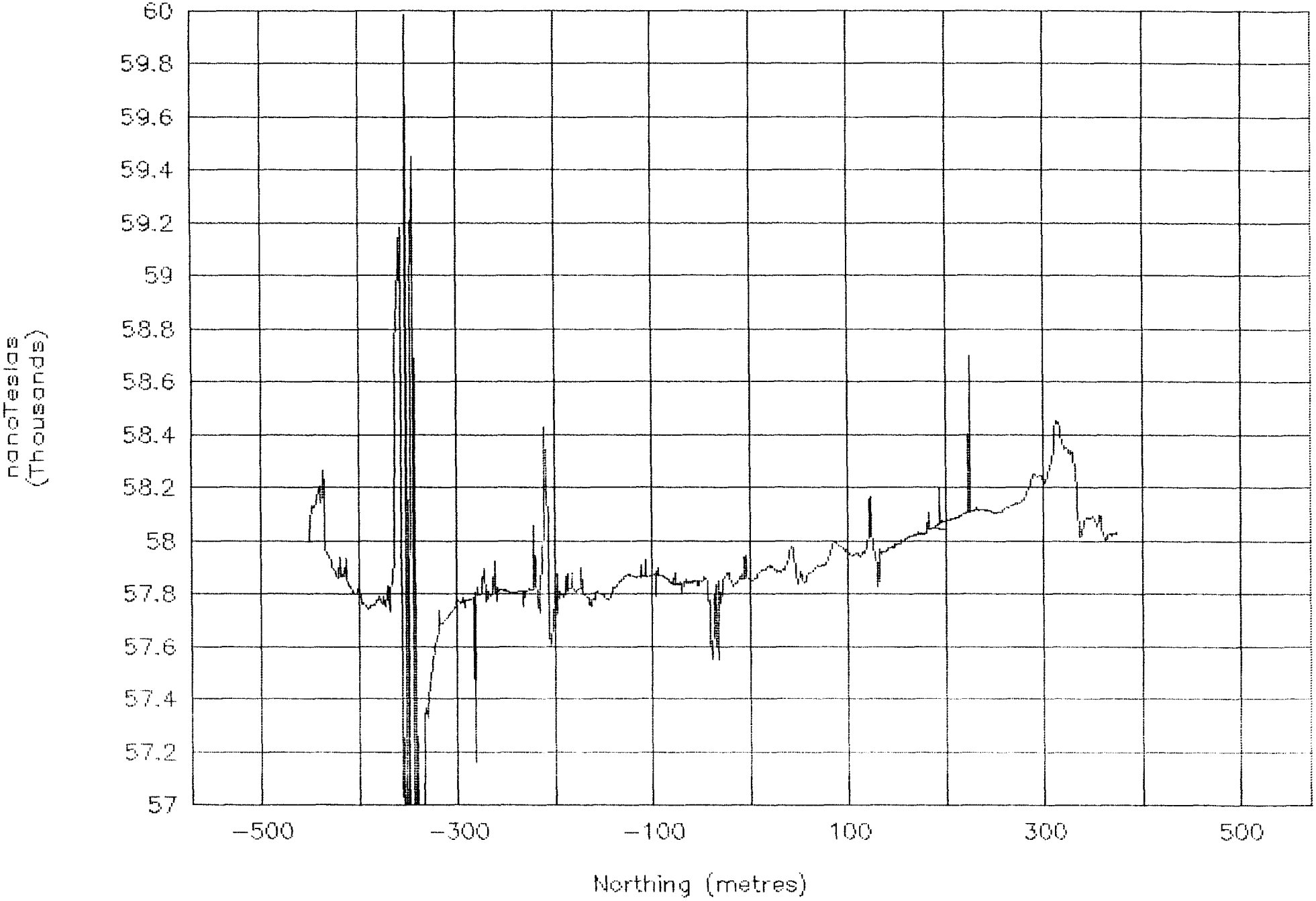
Total Magnetic Field Strength

EBY NORTH GRID: Line 2300E



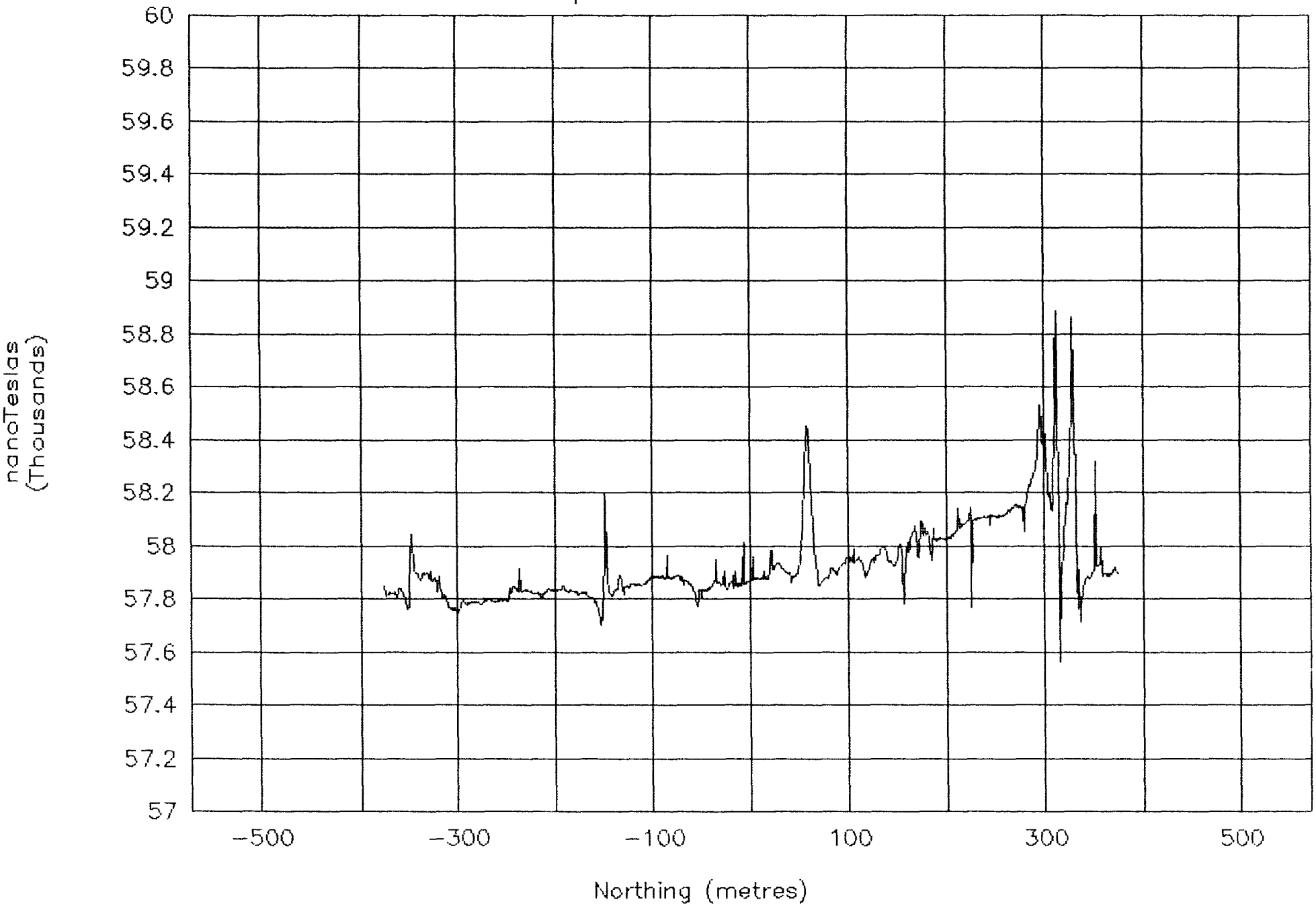
TOTAL MAGNETIC FIELD STRENGTH

EBY Tp. North Grid: Line 2400E



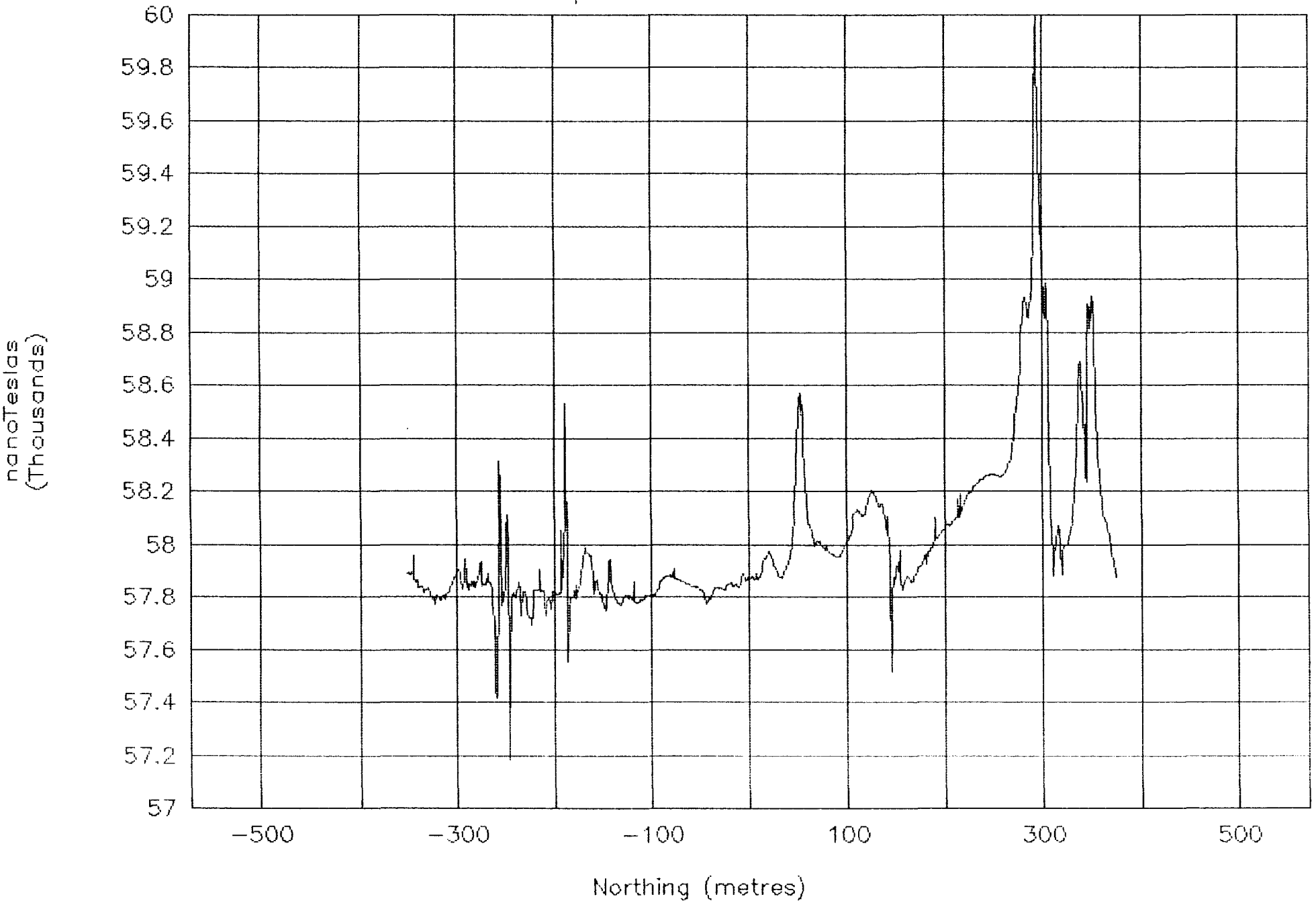
TOTAL MAGNETIC FIELD STRENGTH

EBY Tp. North Grid: Line 2450E



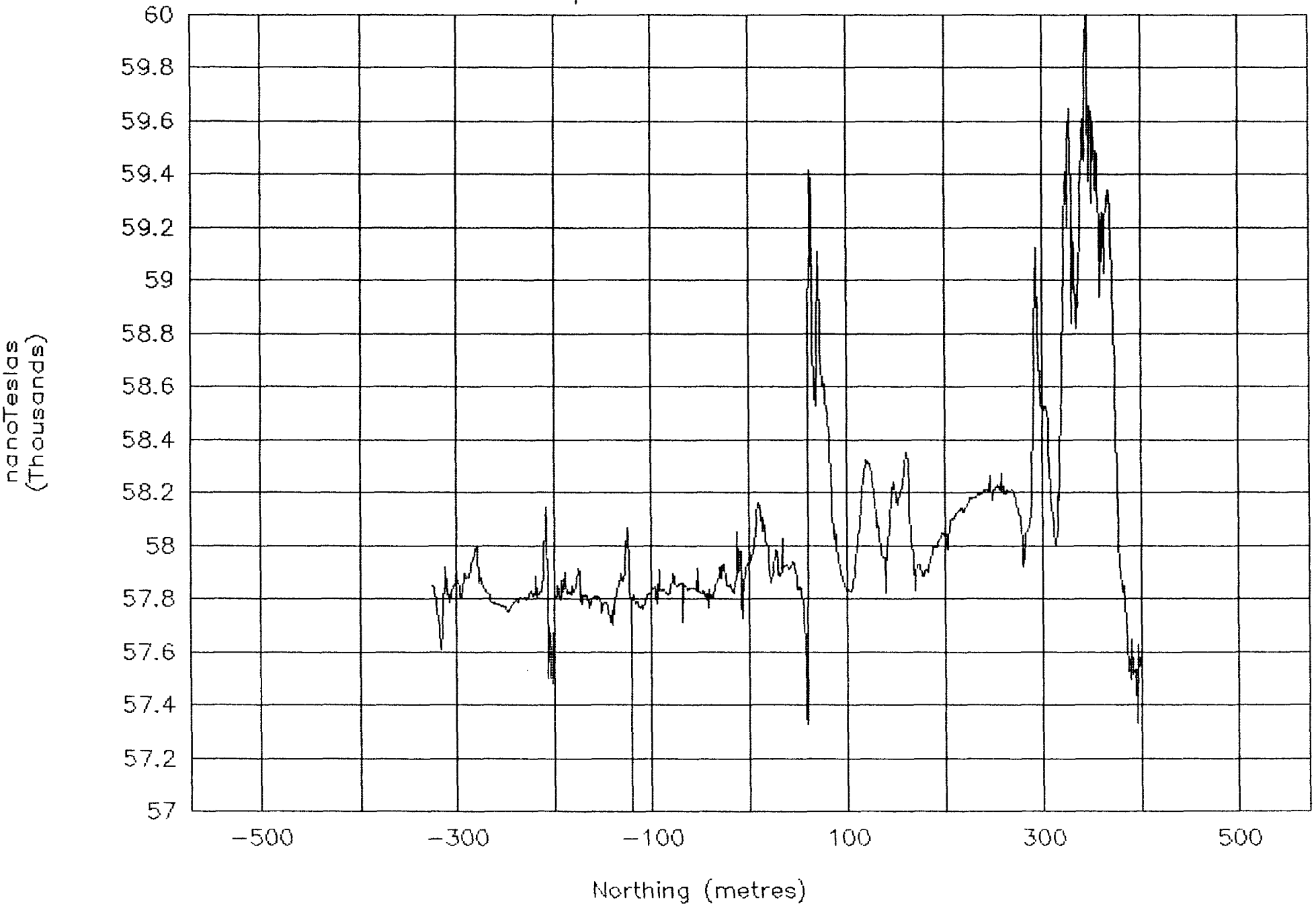
TOTAL MAGNETIC FIELD STRENGTH

EBY Tp. North Grid: Line 2500E



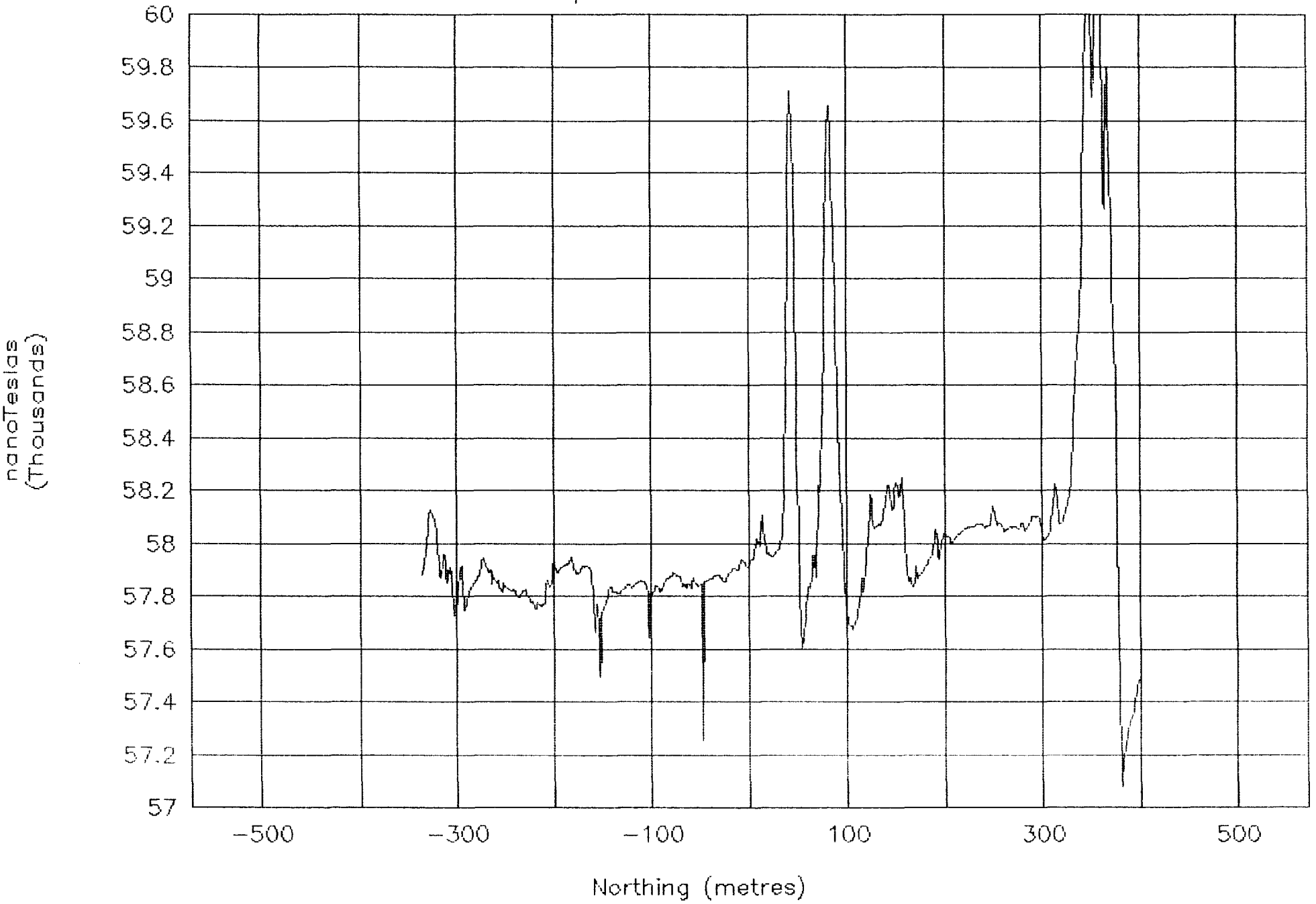
TOTAL MAGNETIC FIELD STRENGTH

EBY Tp. North Grid: Line 2550E



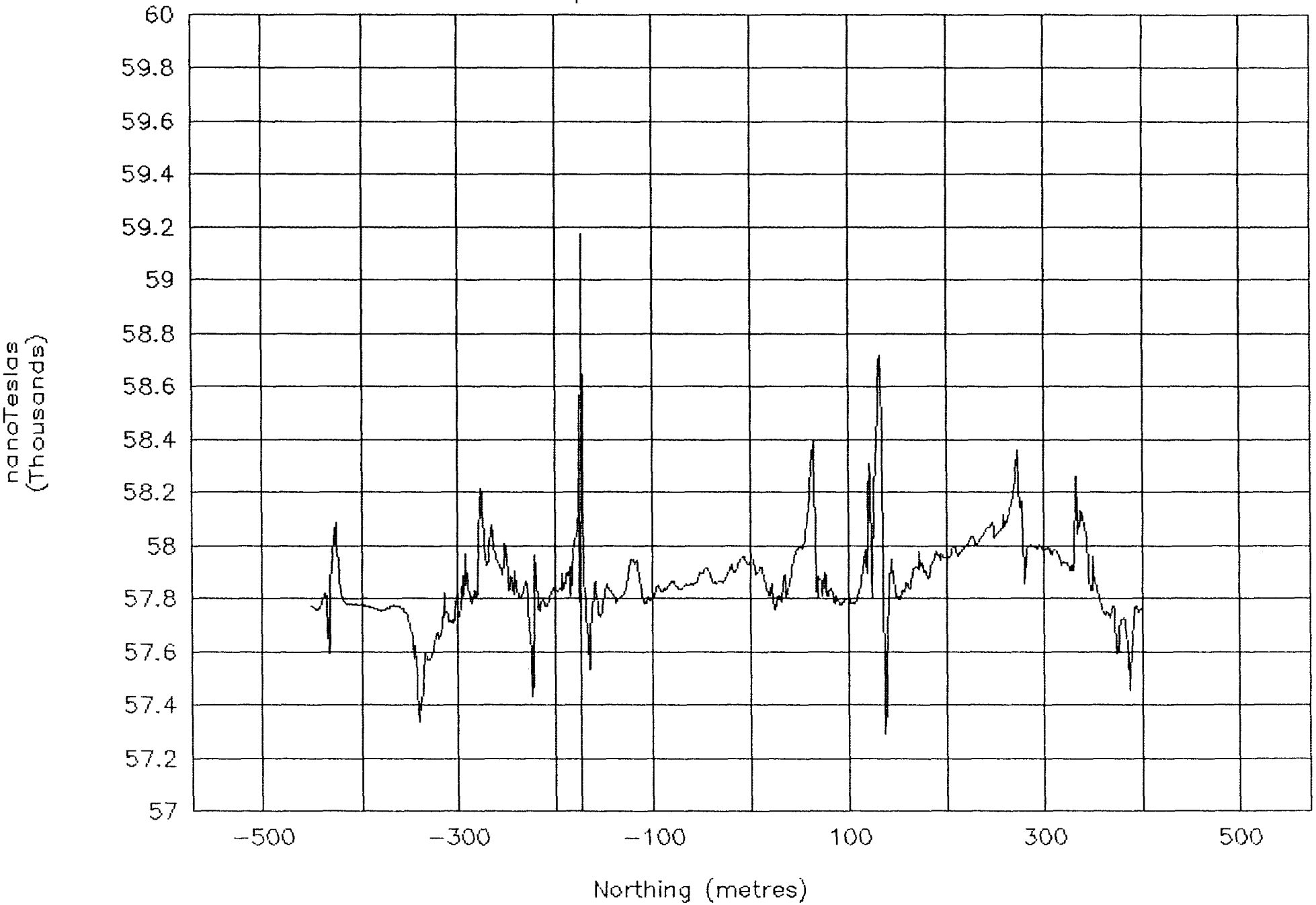
TOTAL MAGNETIC FIELD STRENGTH

EBY Tp. North Grid: Line 2600E



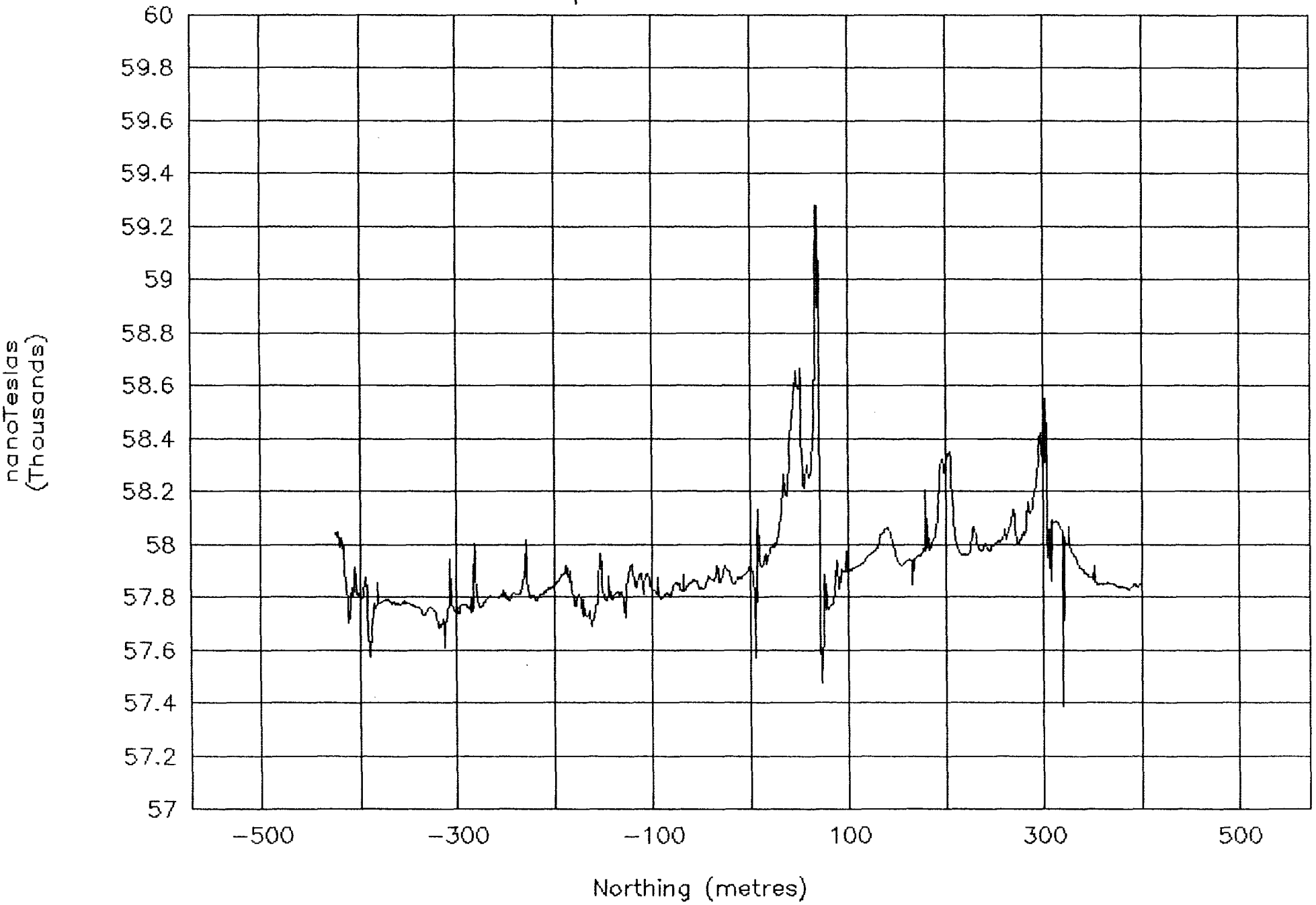
TOTAL MAGNETIC FIELD STRENGTH

EBY Tp. North Grid: Line 2650E



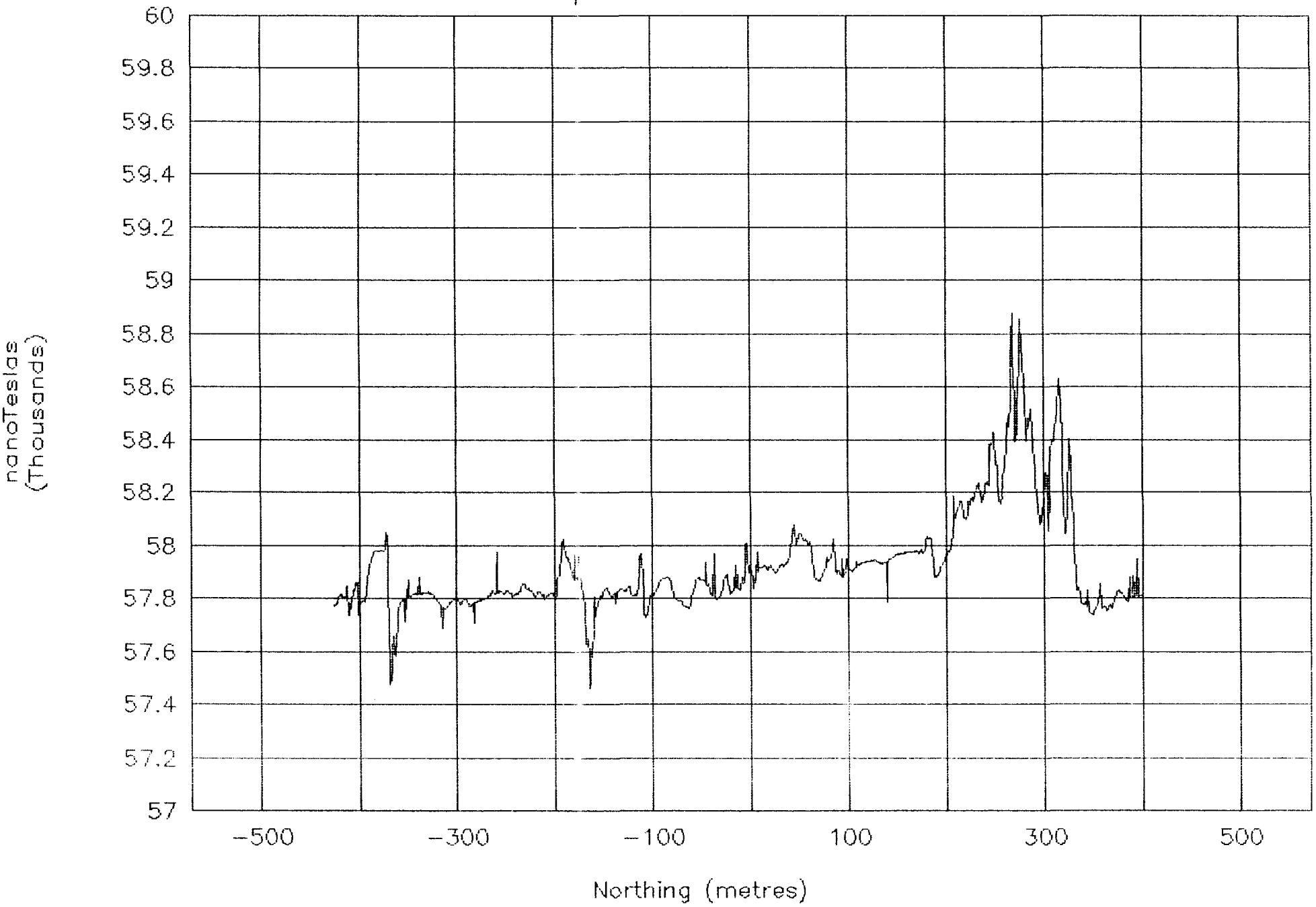
TOTAL MAGNETIC FIELD STRENGTH

EBY Tp. North Grid: Line 2700E



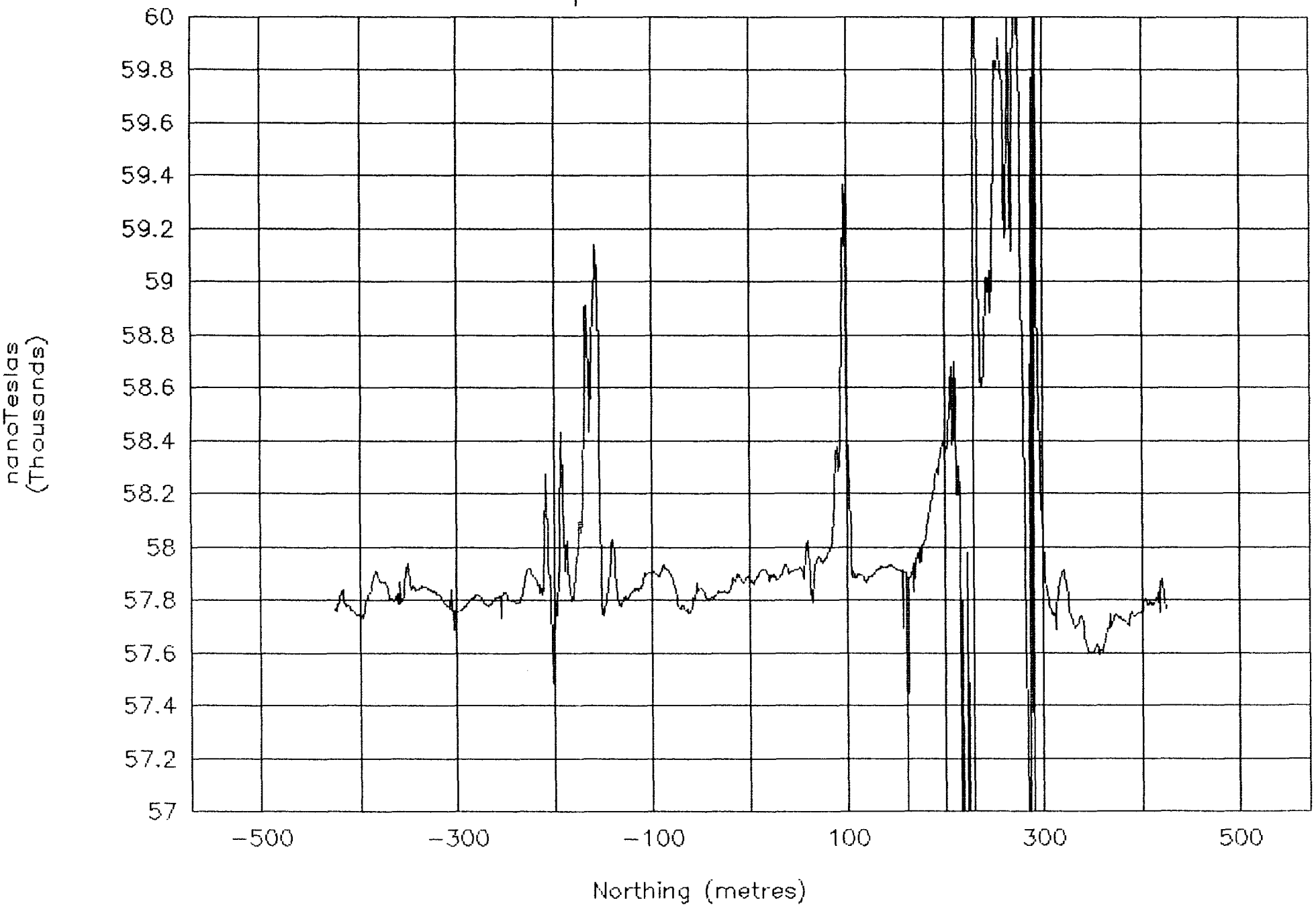
TOTAL MAGNETIC FIELD STRENGTH

EBY Tp. North Grid: Line 2750E



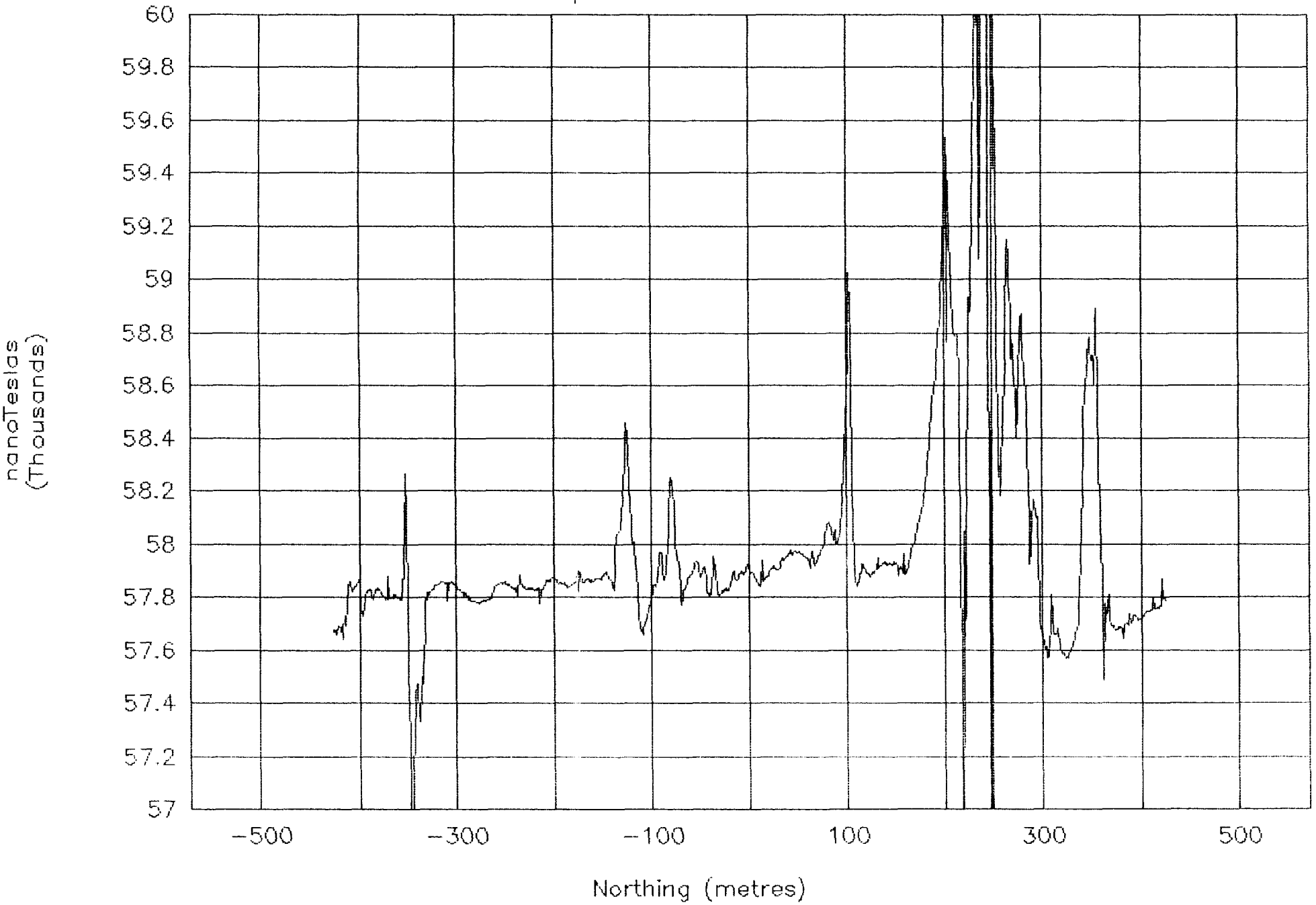
TOTAL MAGNETIC FIELD STRENGTH

EBY Tp. North Grid: Line 2800E



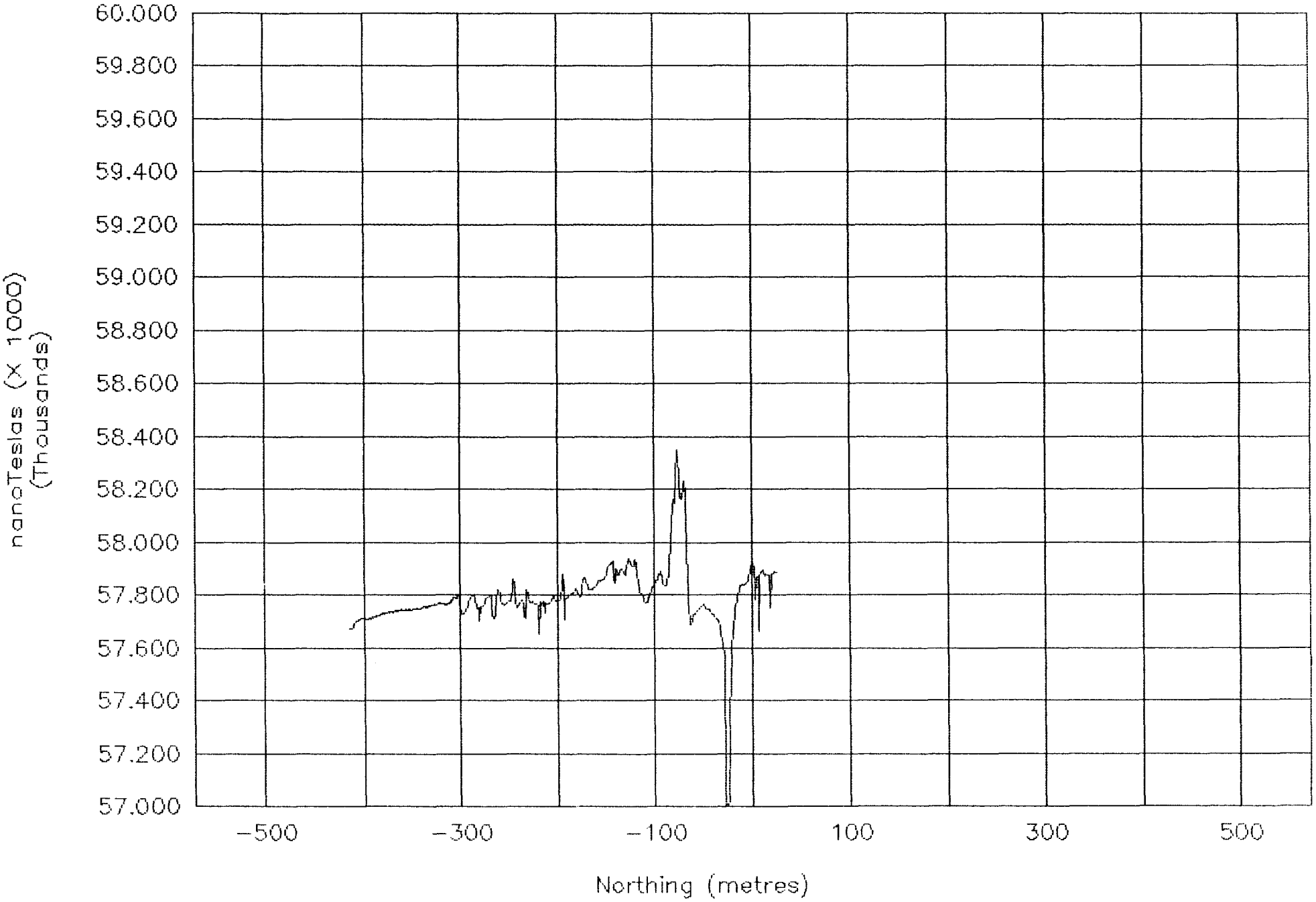
TOTAL MAGNETIC FIELD STRENGTH

EBY Tp. North Grid: Line 2850E



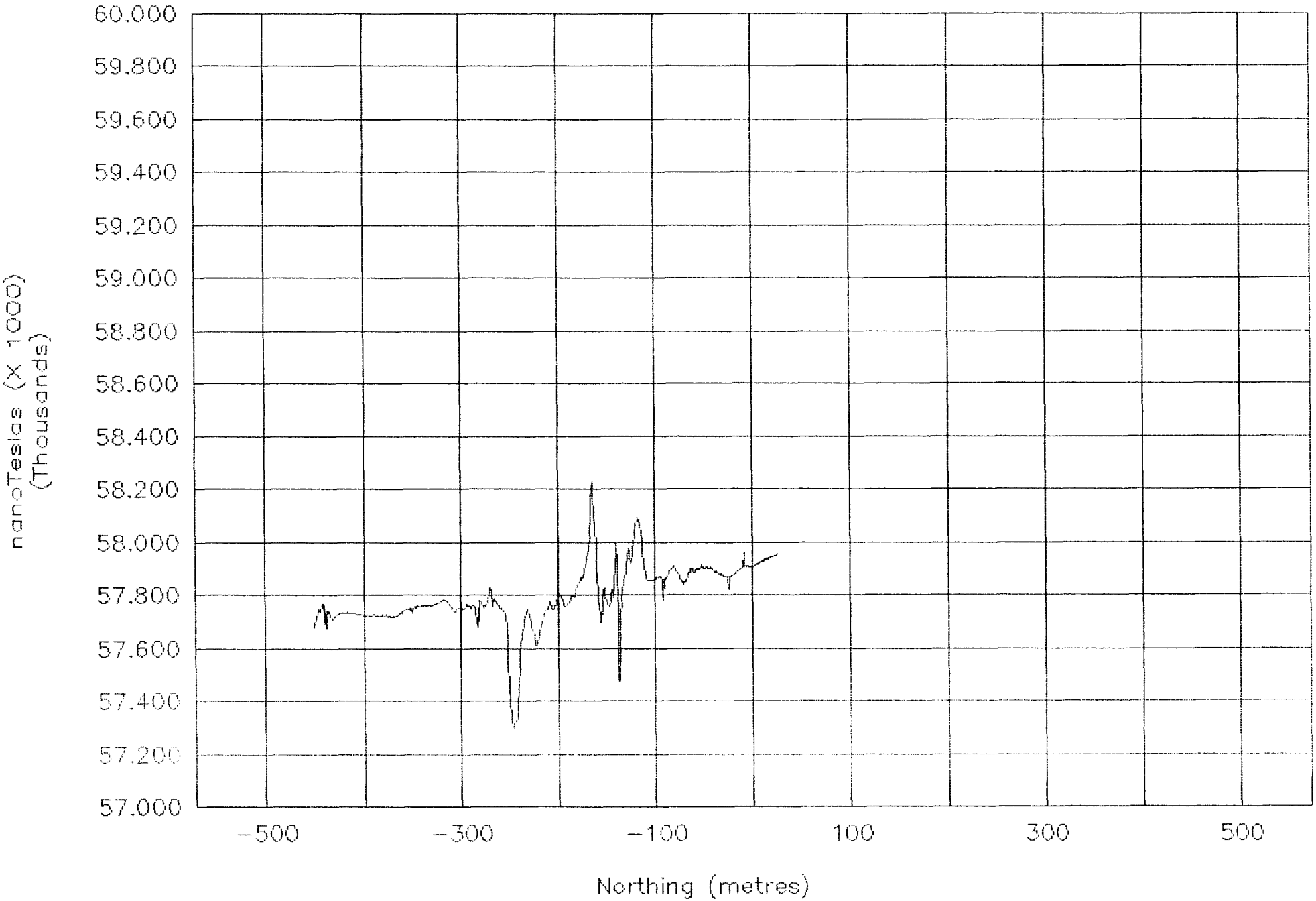
Total Magnetic Field Strength

EBY NORTH GRID: Line 3000E



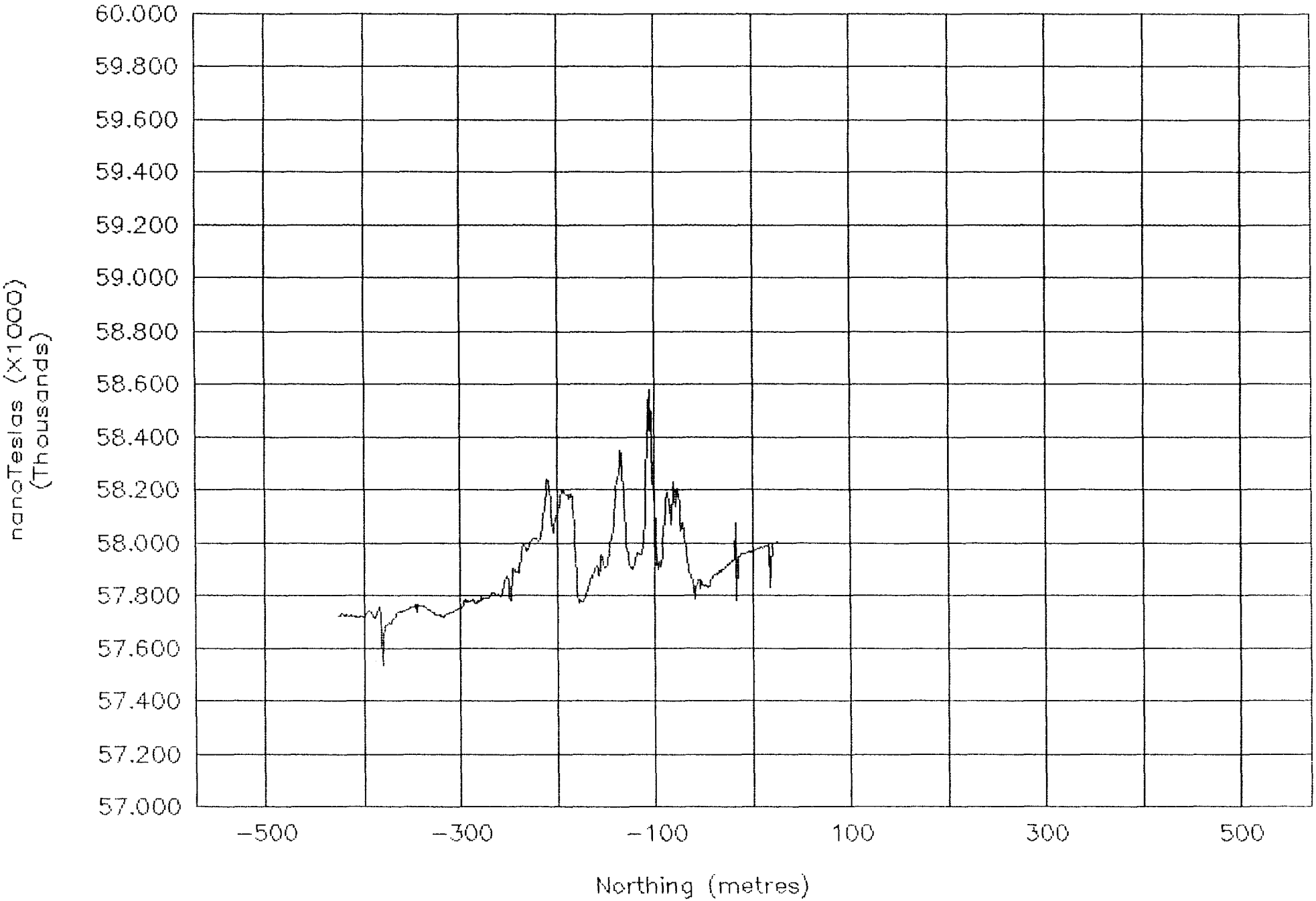
Total Magnetic Field Strength

EBY NORTH GRID: Line 3100E



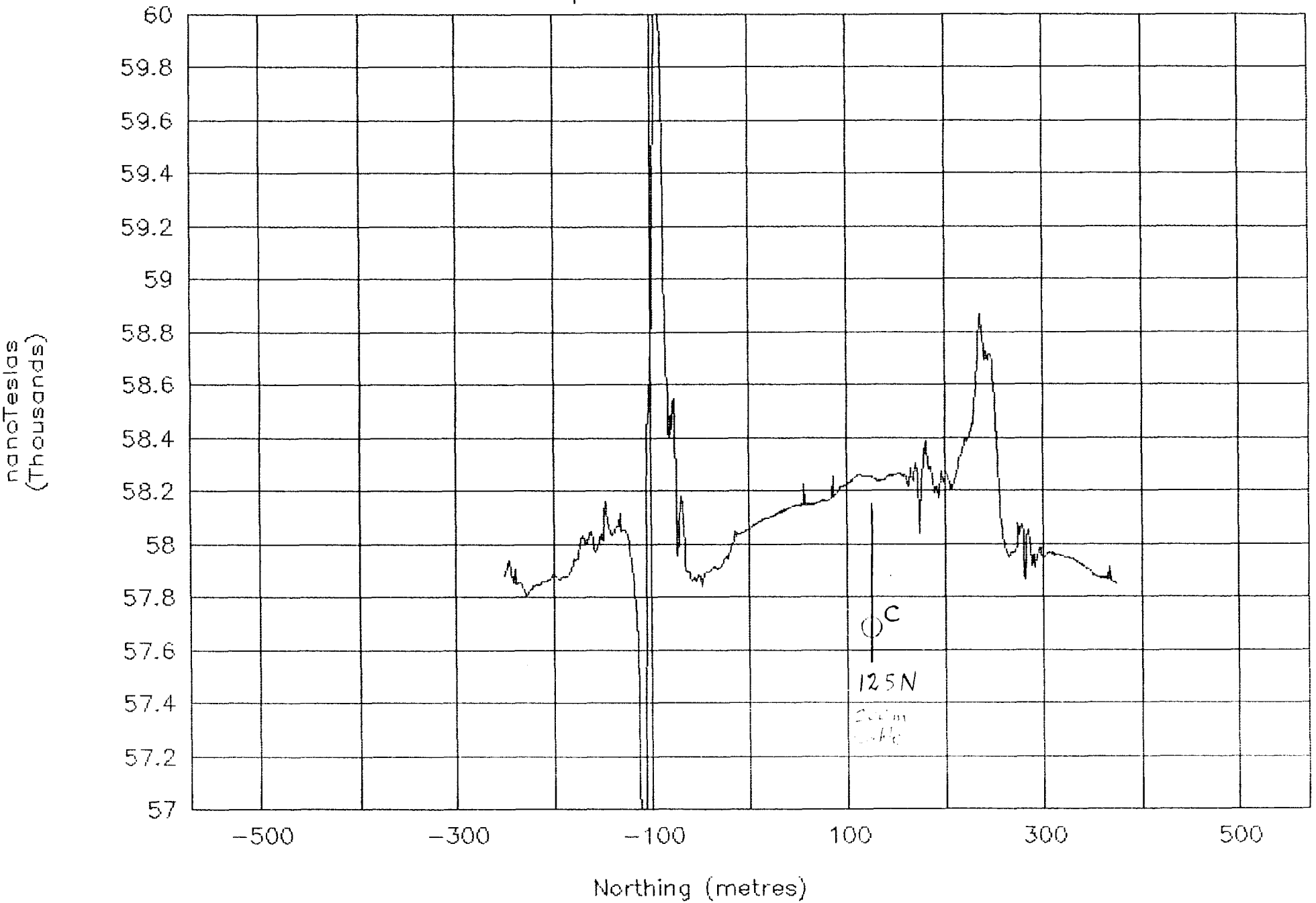
Total Magnetic Field Strength

EBY NORTH GRID: Line 3200E



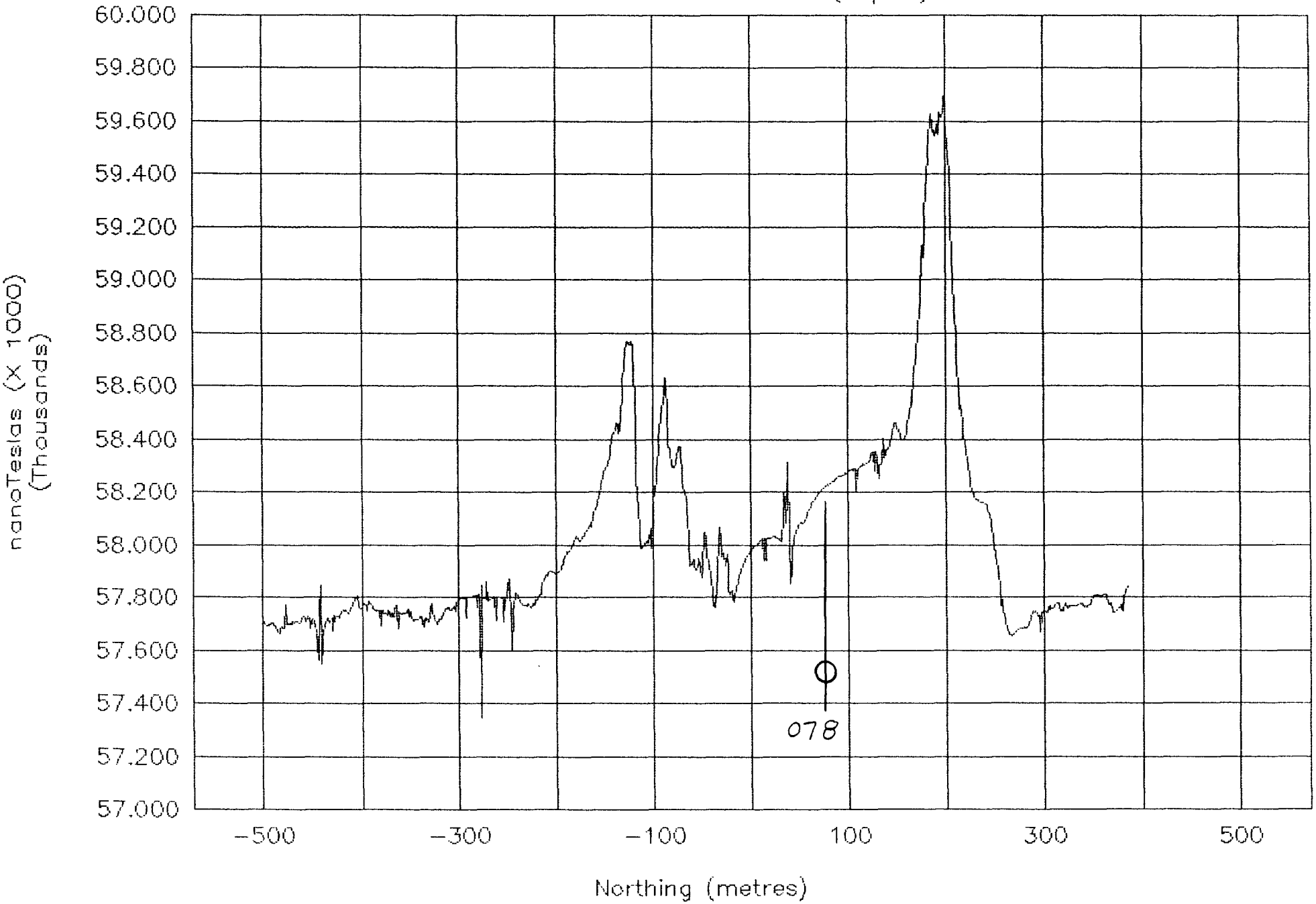
TOTAL MAGNETIC FIELD STRENGTH

EBY Tp. North Grid: Line 3265E



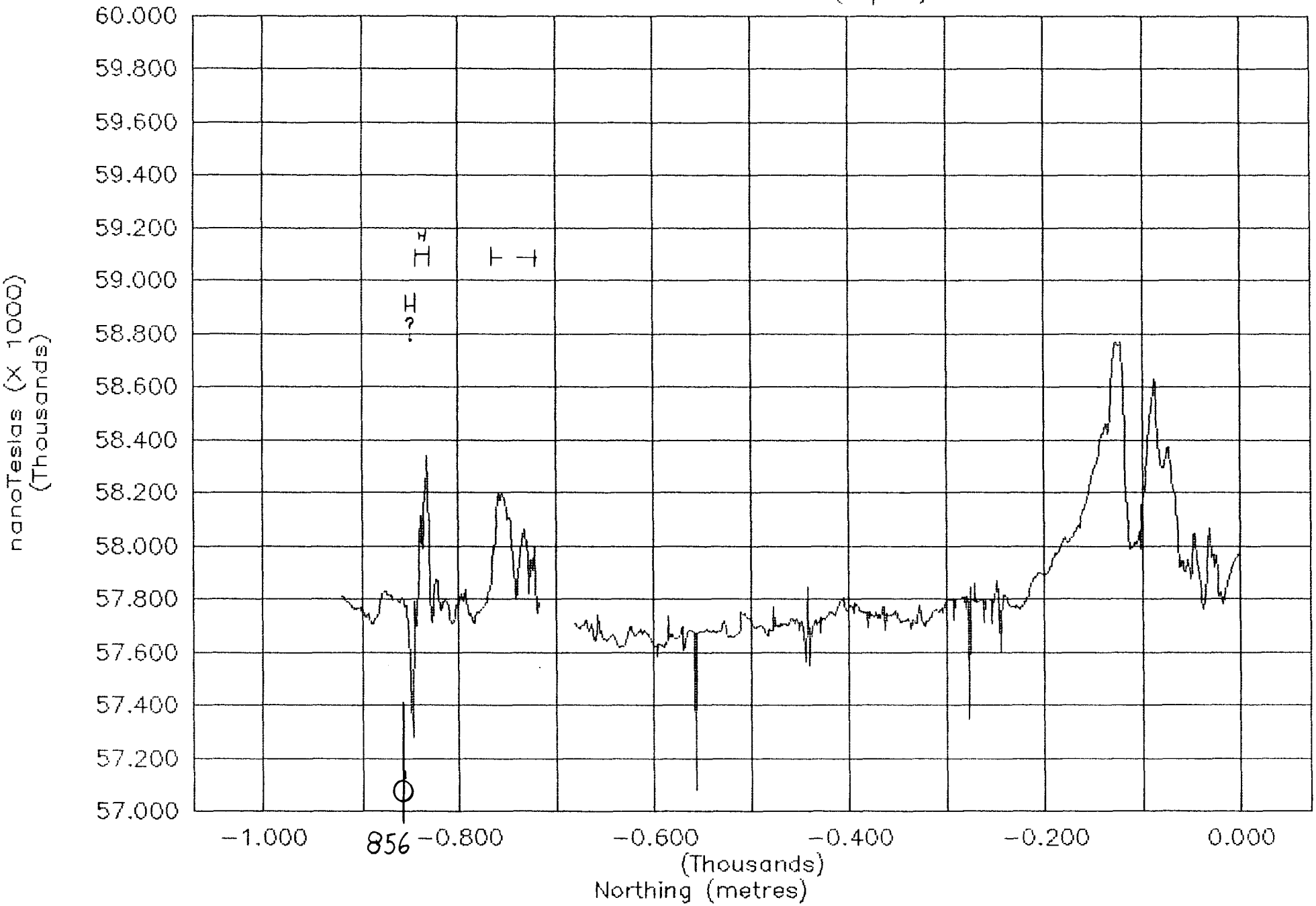
Total Magnetic Field Strength

EBY NORTH GRID: Line 3350E (N part)



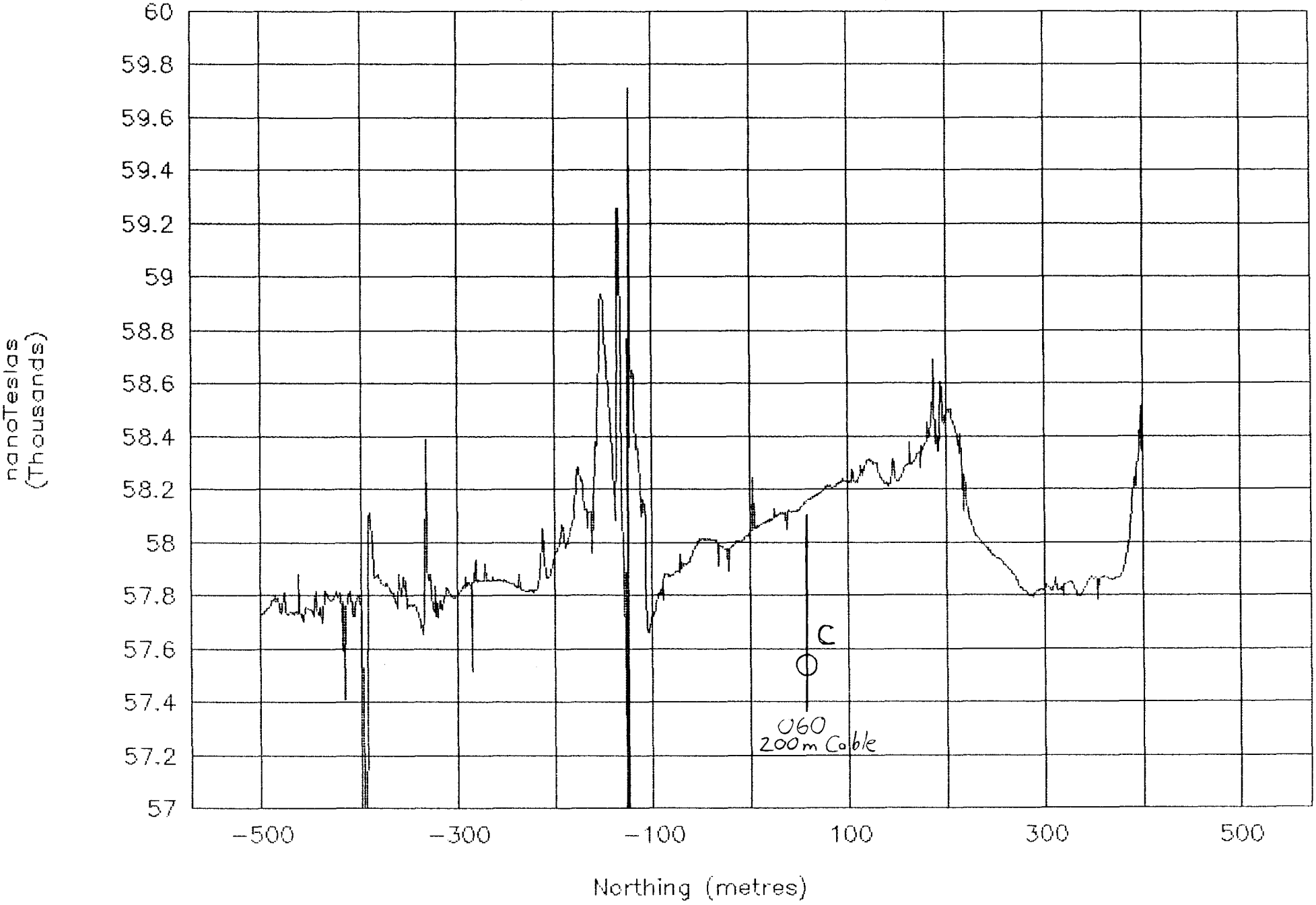
Total Magnetic Field Strength

EBY NORTH GRID: Line 3350E (S part)



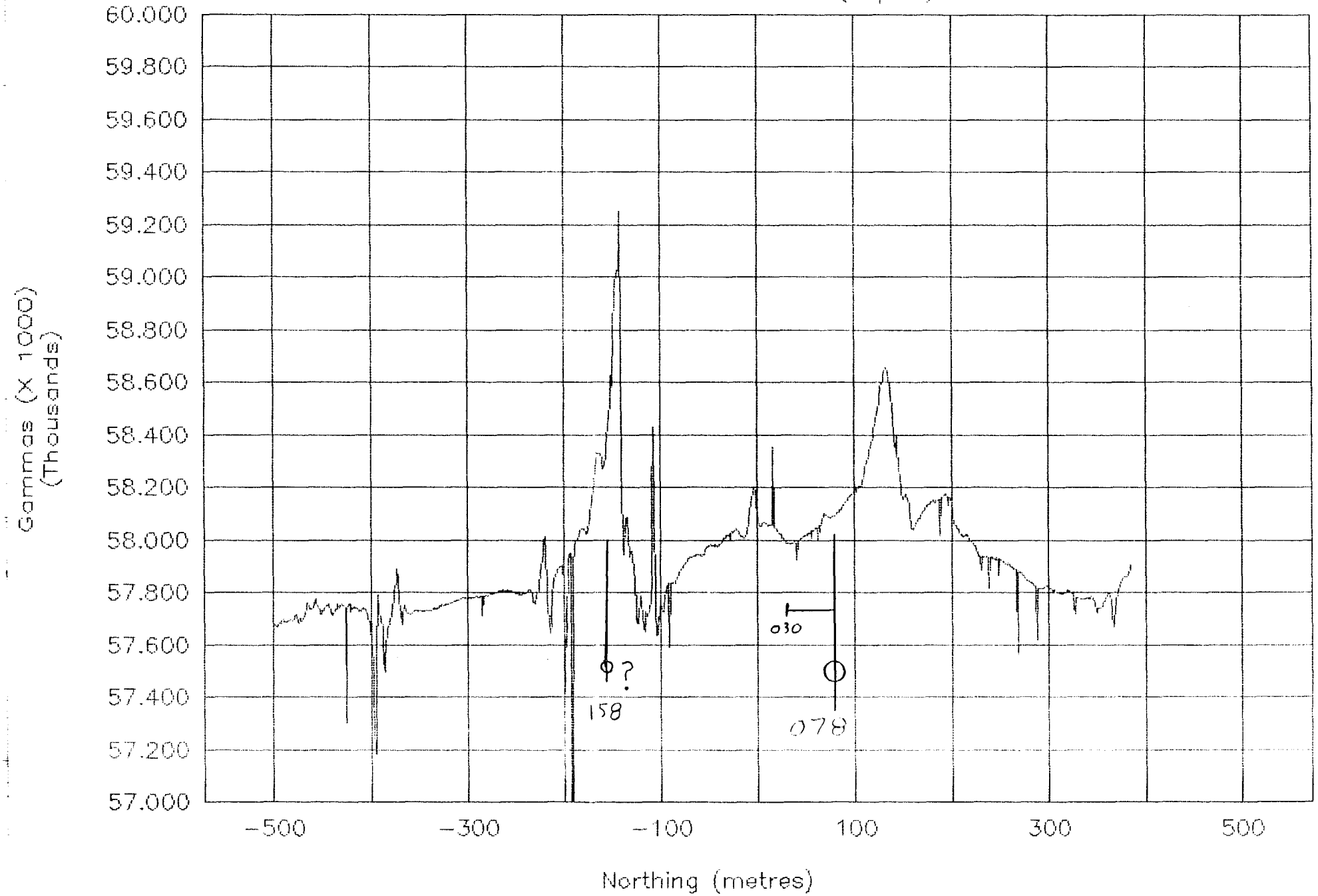
TOTAL MAGNETIC FIELD STRENGTH

EBY Tp. North Grid: Line 3400E (N part)



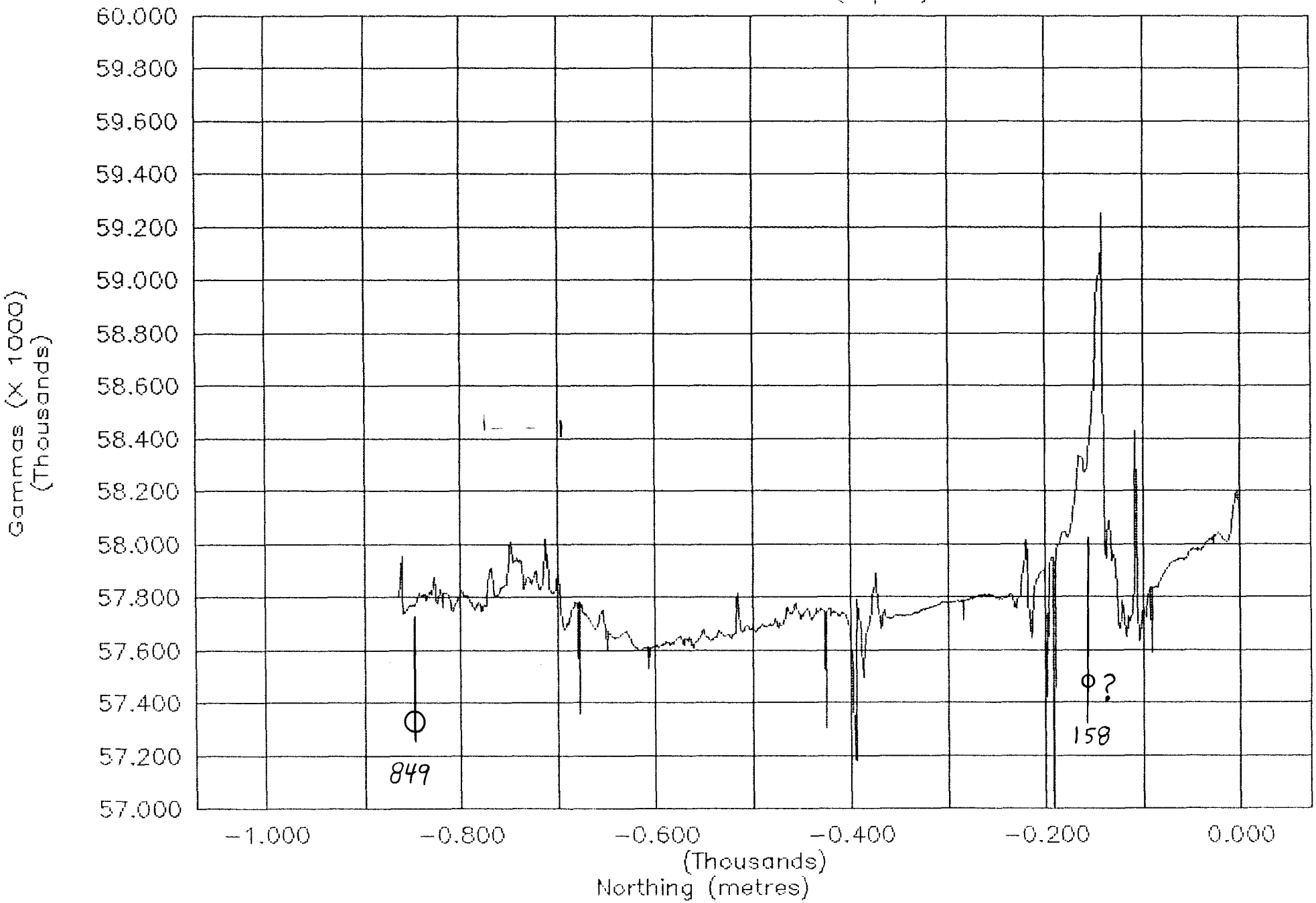
Total Field Strength

EBY NORTH GRID: Line 3425E (N part)



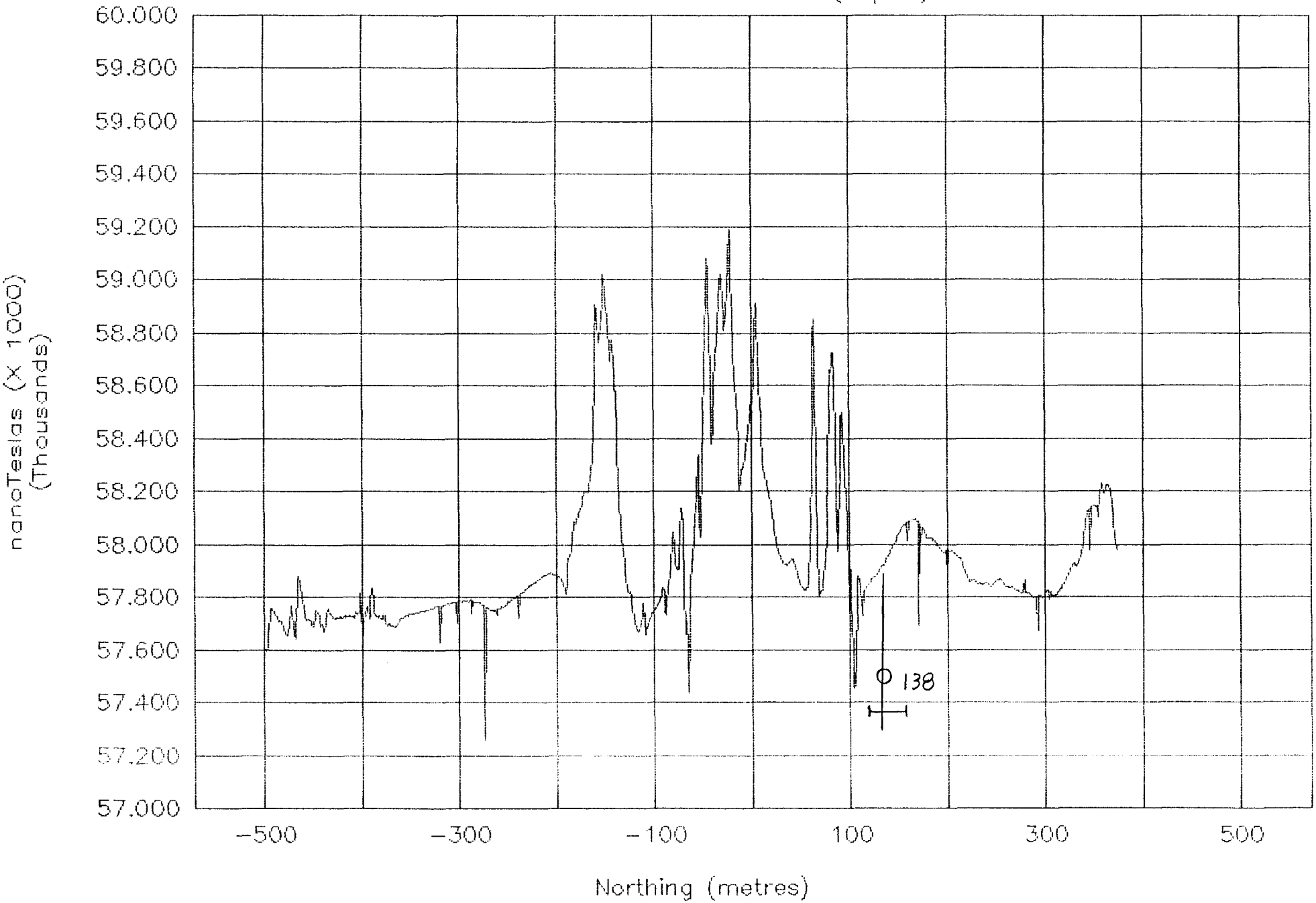
Total Field Strength

EBY NORTH GRID: Line 3425E (S part)



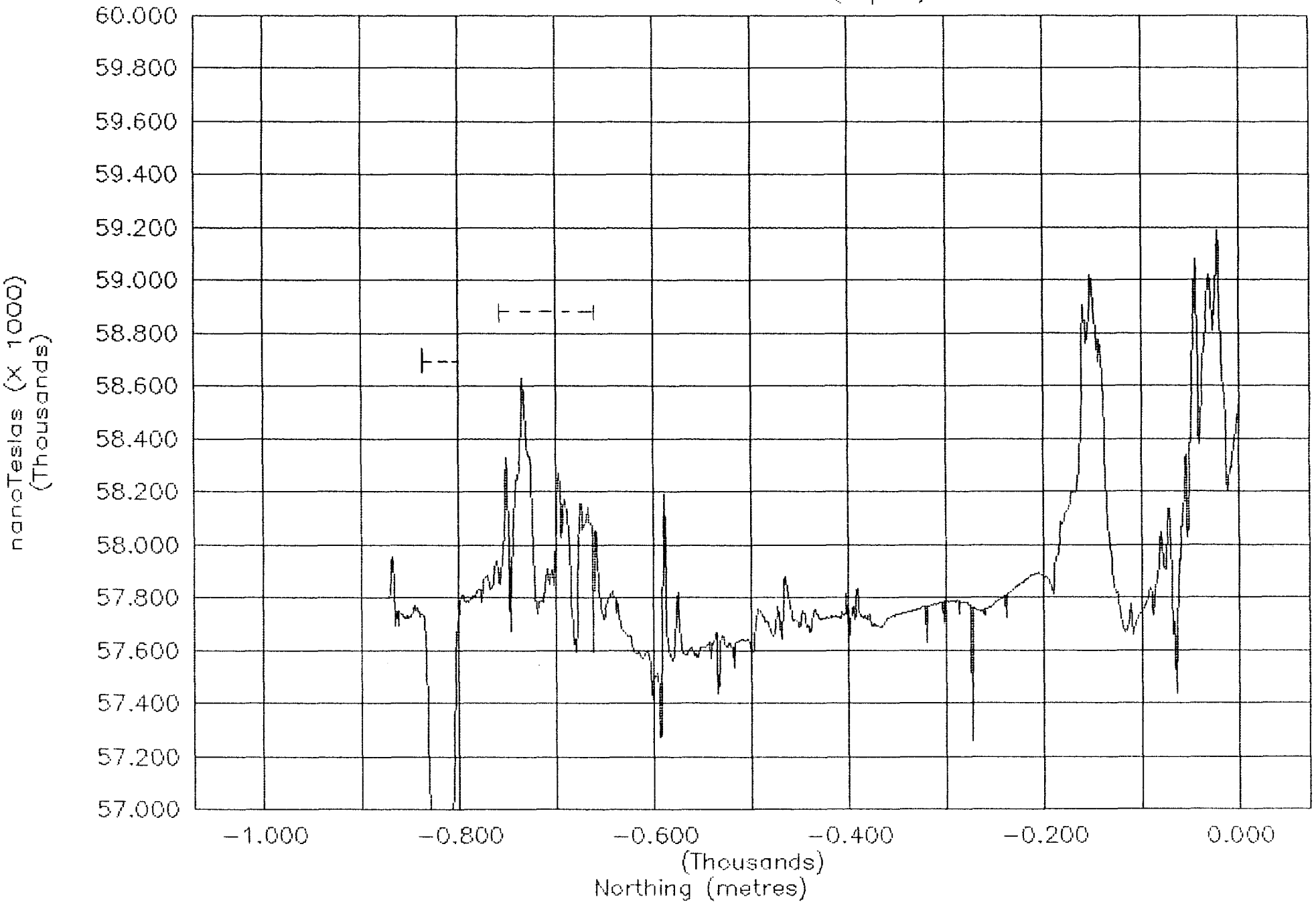
Total Magnetic Field Strength

EBY NORTH GRID: Line 3525E (N part)



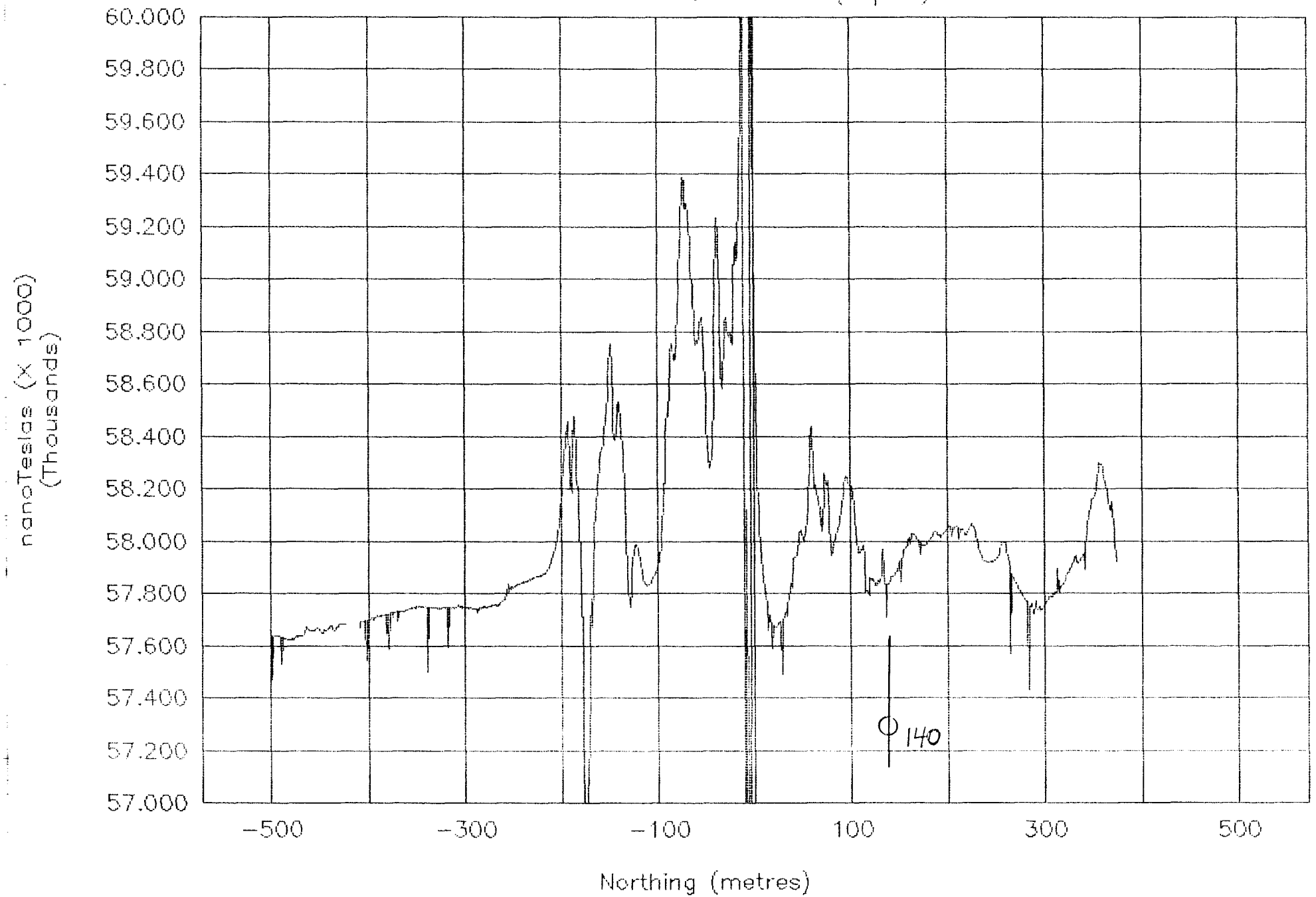
Total Magnetic Field Strength

EBY NORTH GRID: Line 3525E (S part)



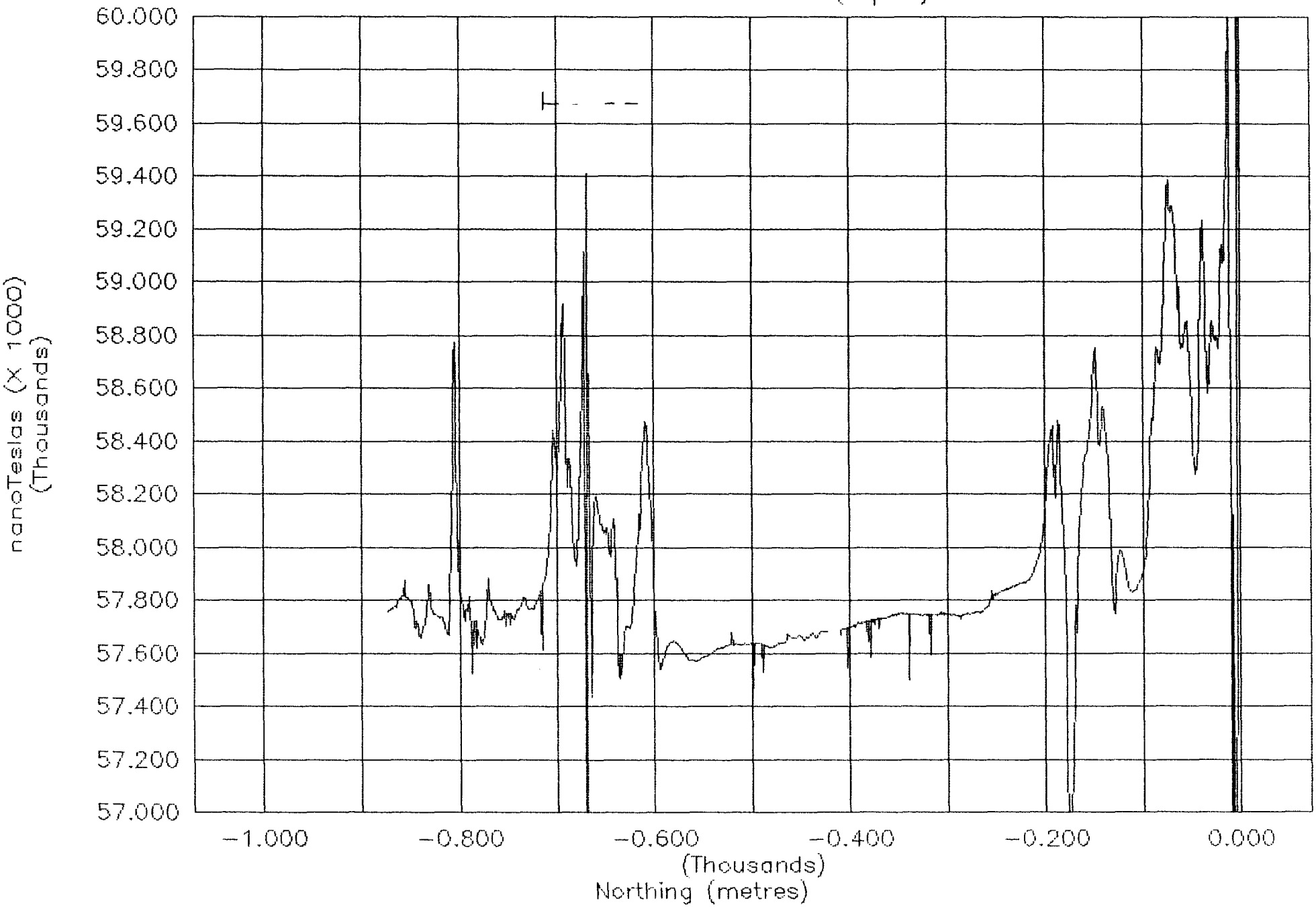
Total Magnetic Field Strength

EBY NORTH GRID: Line 3600E (N part)



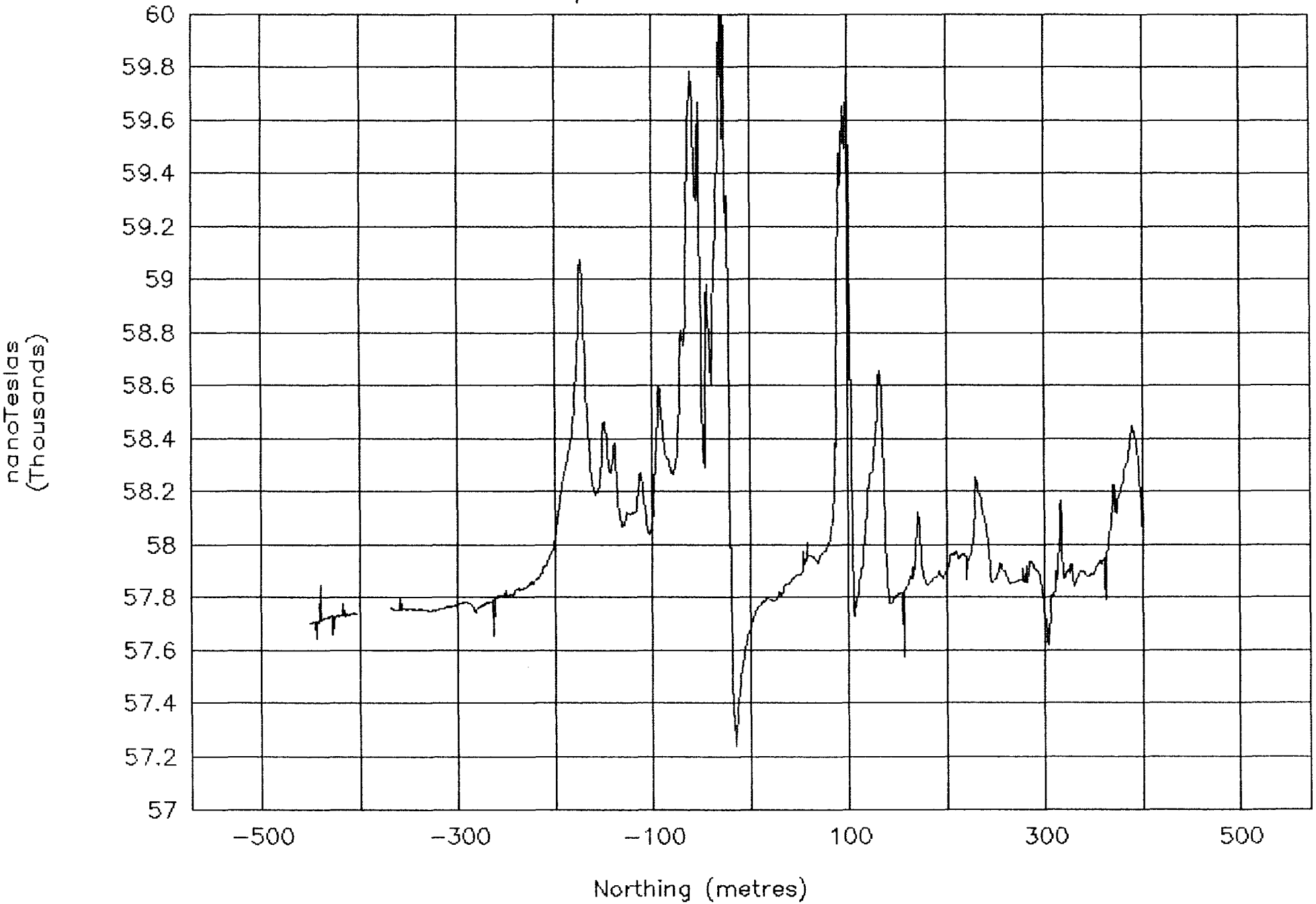
Total Magnetic Field Strength

EBY NORTH GRID: Line 3600E (S part)



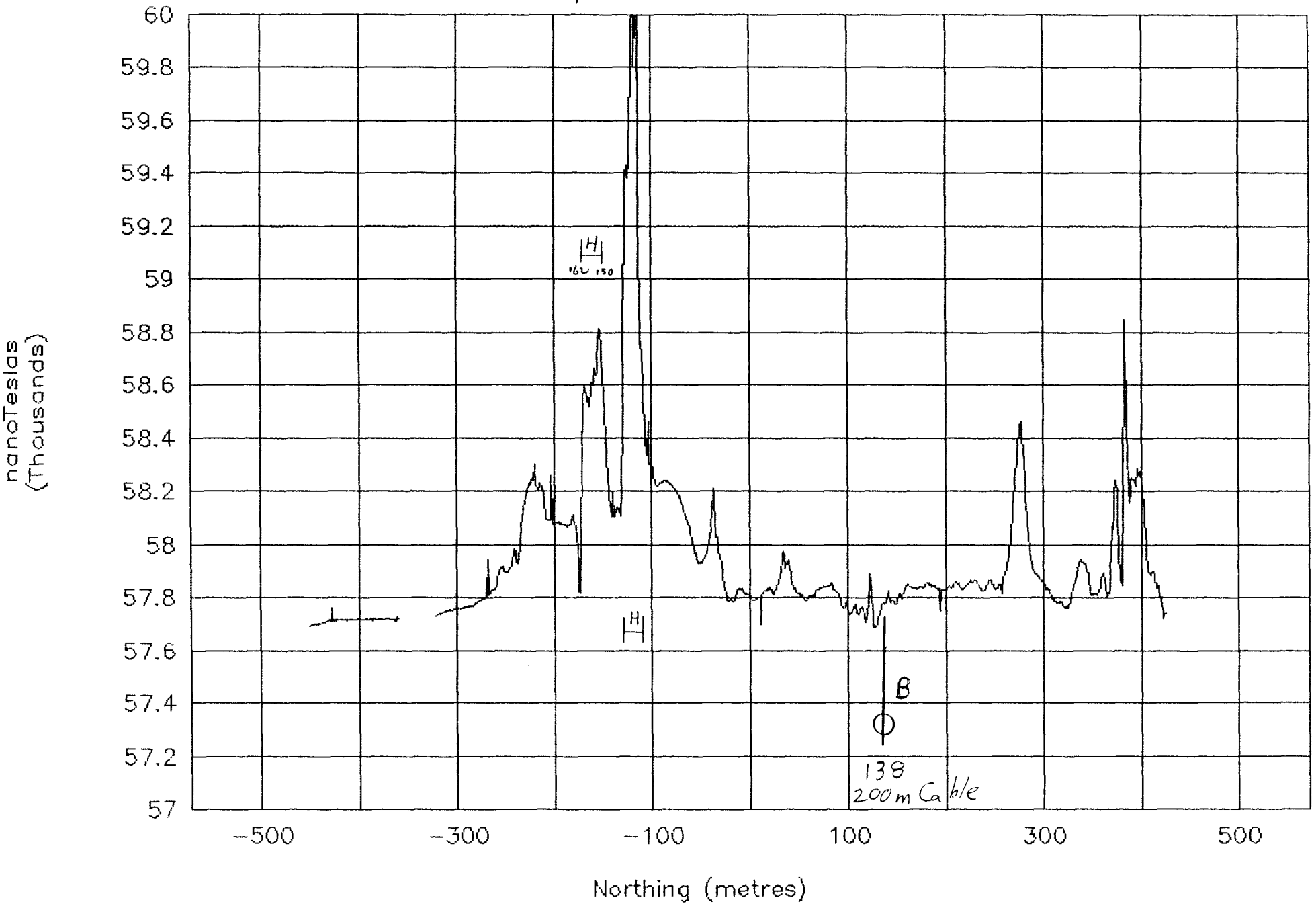
TOTAL MAGNETIC FIELD STRENGTH

EBY Tp. North Grid: Line 3650E



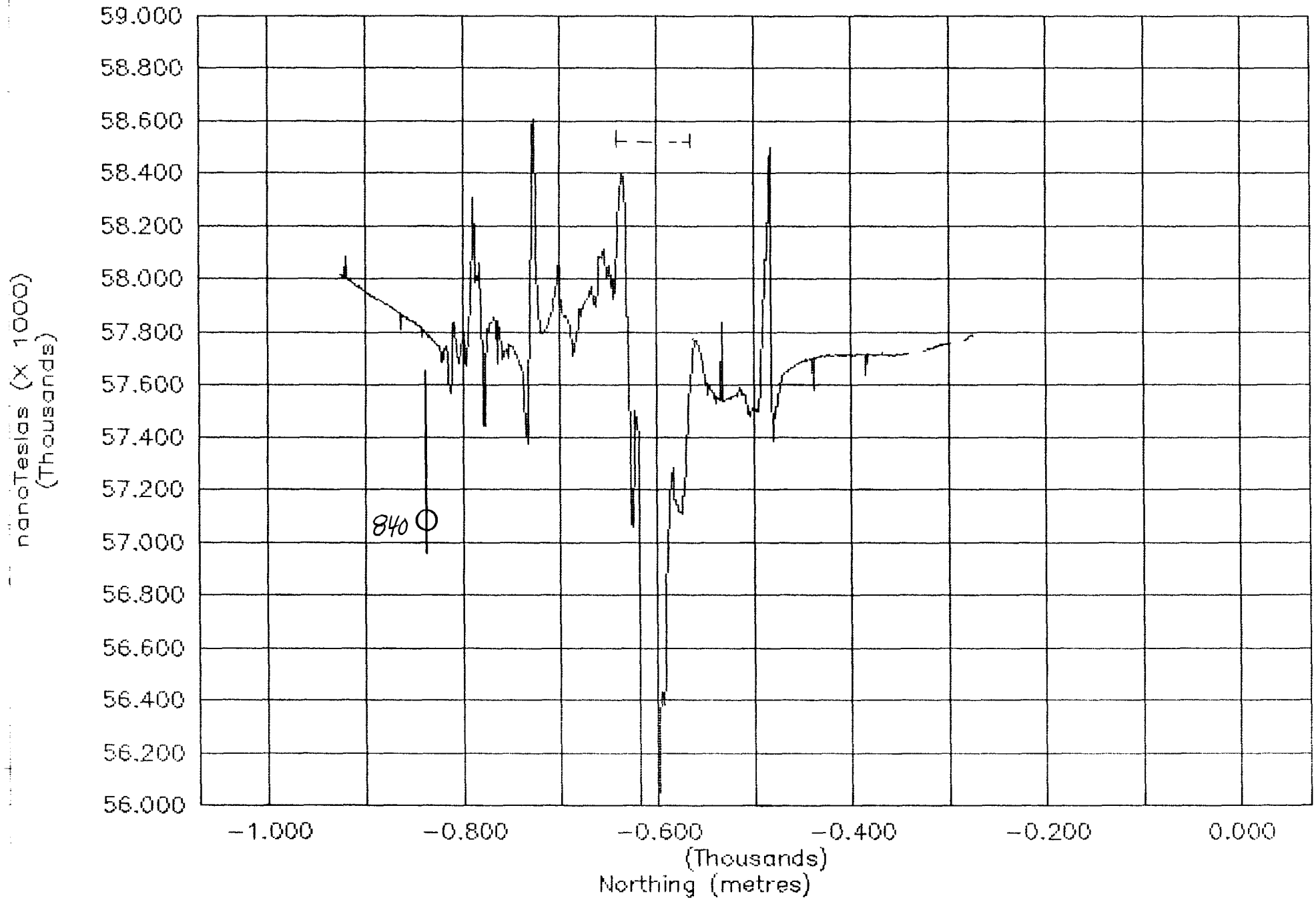
TOTAL MAGNETIC FIELD STRENGTH

EBY Tp. North Grid: Line 3700E



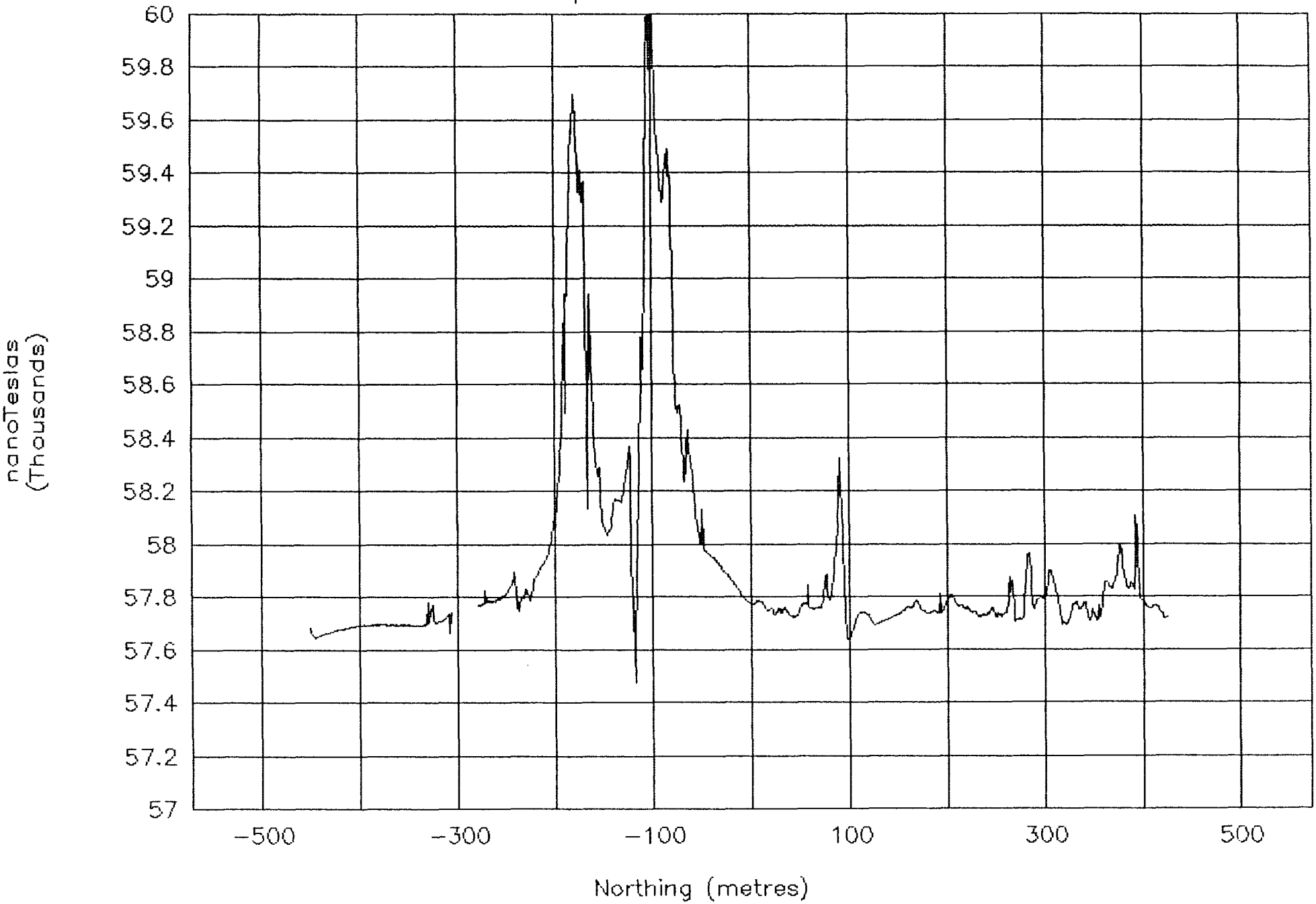
Total Magnetic Field Strength

EBY NORTH GRID: Line 3700E



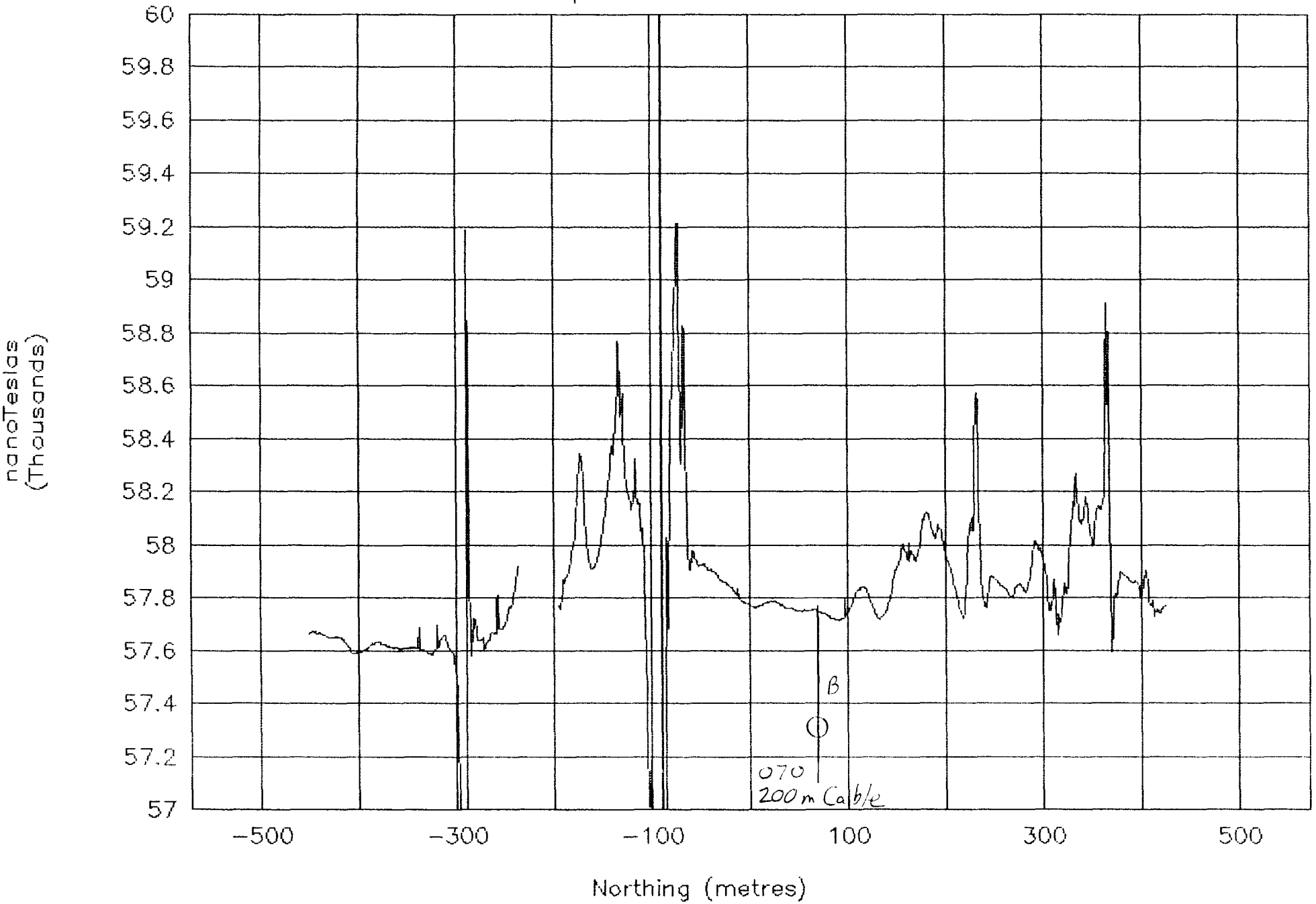
TOTAL MAGNETIC FIELD STRENGTH

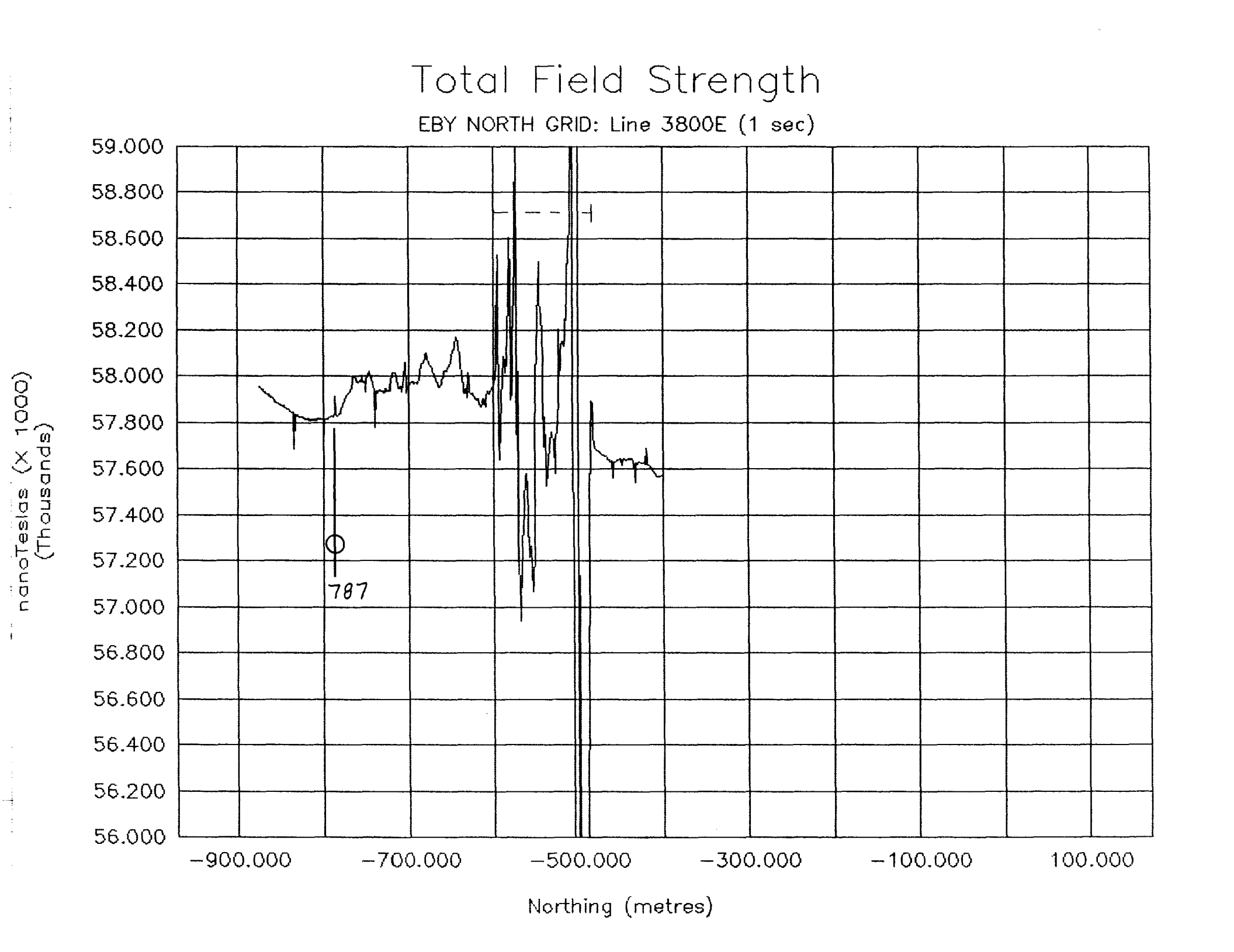
EBY Tp. North Grid: Line 3750E



TOTAL MAGNETIC FIELD STRENGTH

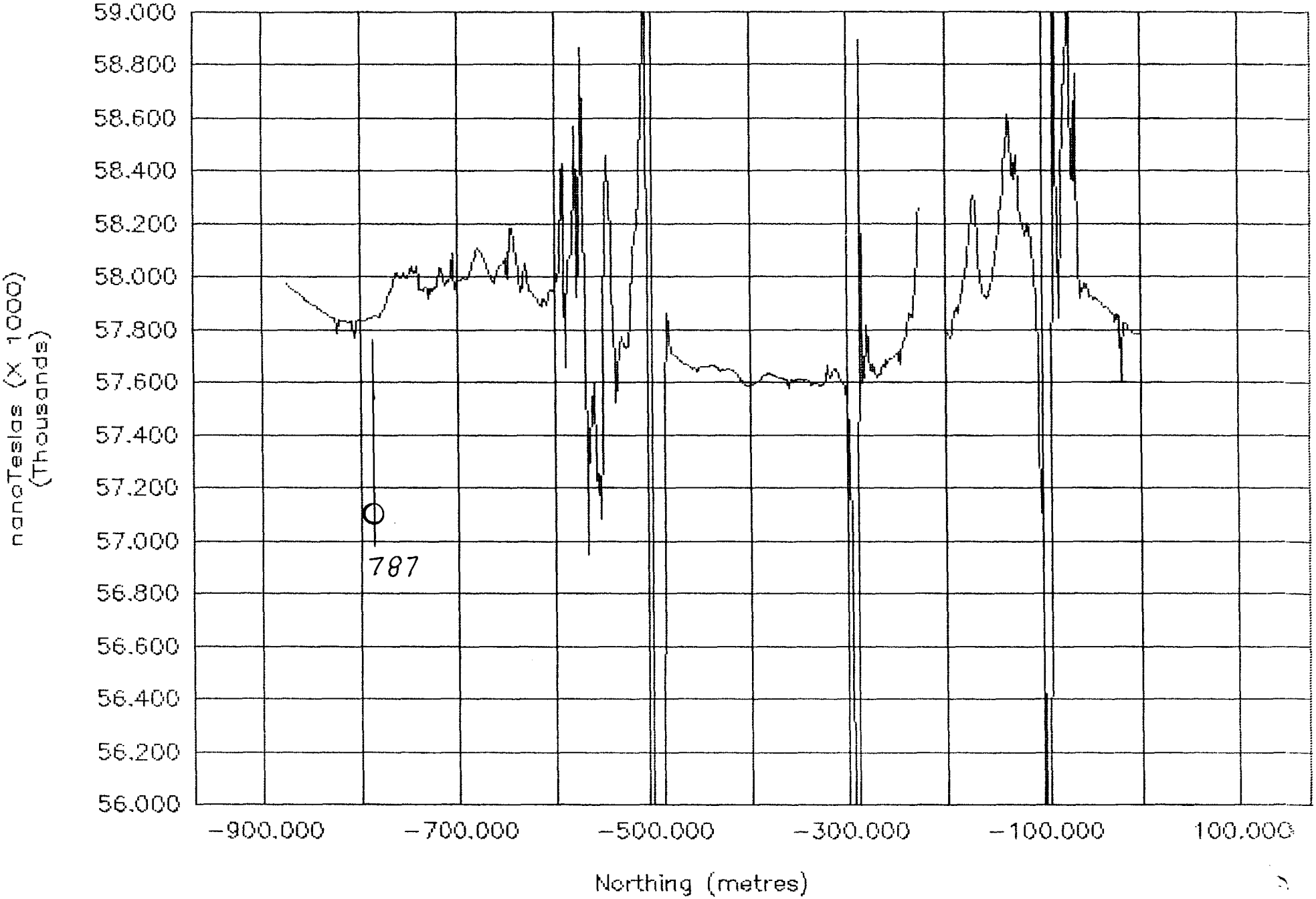
EBY Tp. North Grid: Line 3800E




Total Field Strength
EBY NORTH GRID: Line 3800E (1 sec)
59.000
58.800
58.600
58.400
58.200
58.000
57.800
57.600
57.400
57.200
57.000
56.800
56.600
56.400
56.200
56.000
nanoTeslas (X 1000)
(Thousands)
787
-900.000
-700.000
-500.000
-300.000
-100.000
100.000
Northing (metres)

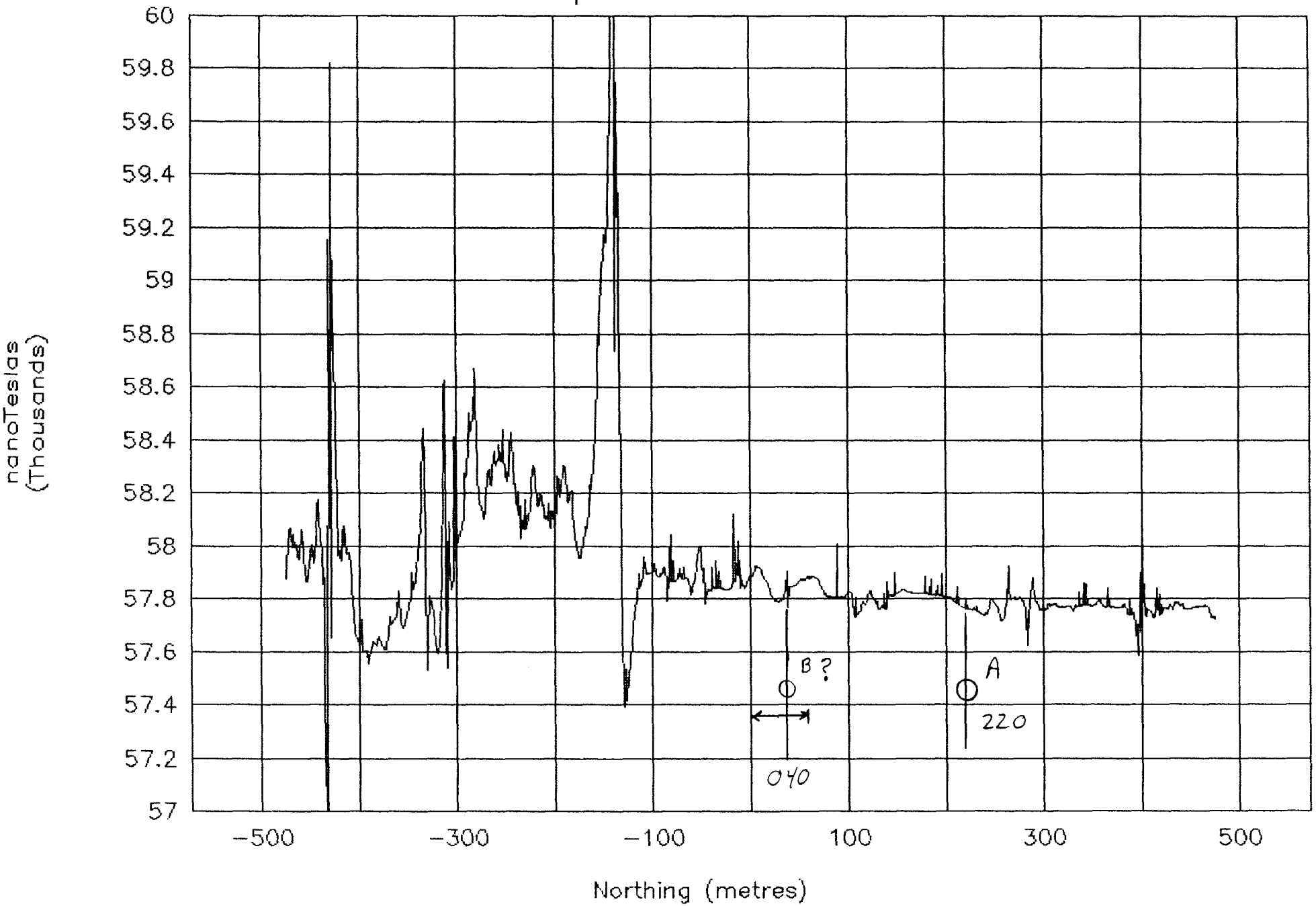
Total Magnetic Field Strength

EBY NORTH GRID: Line 3800E (2 sec)



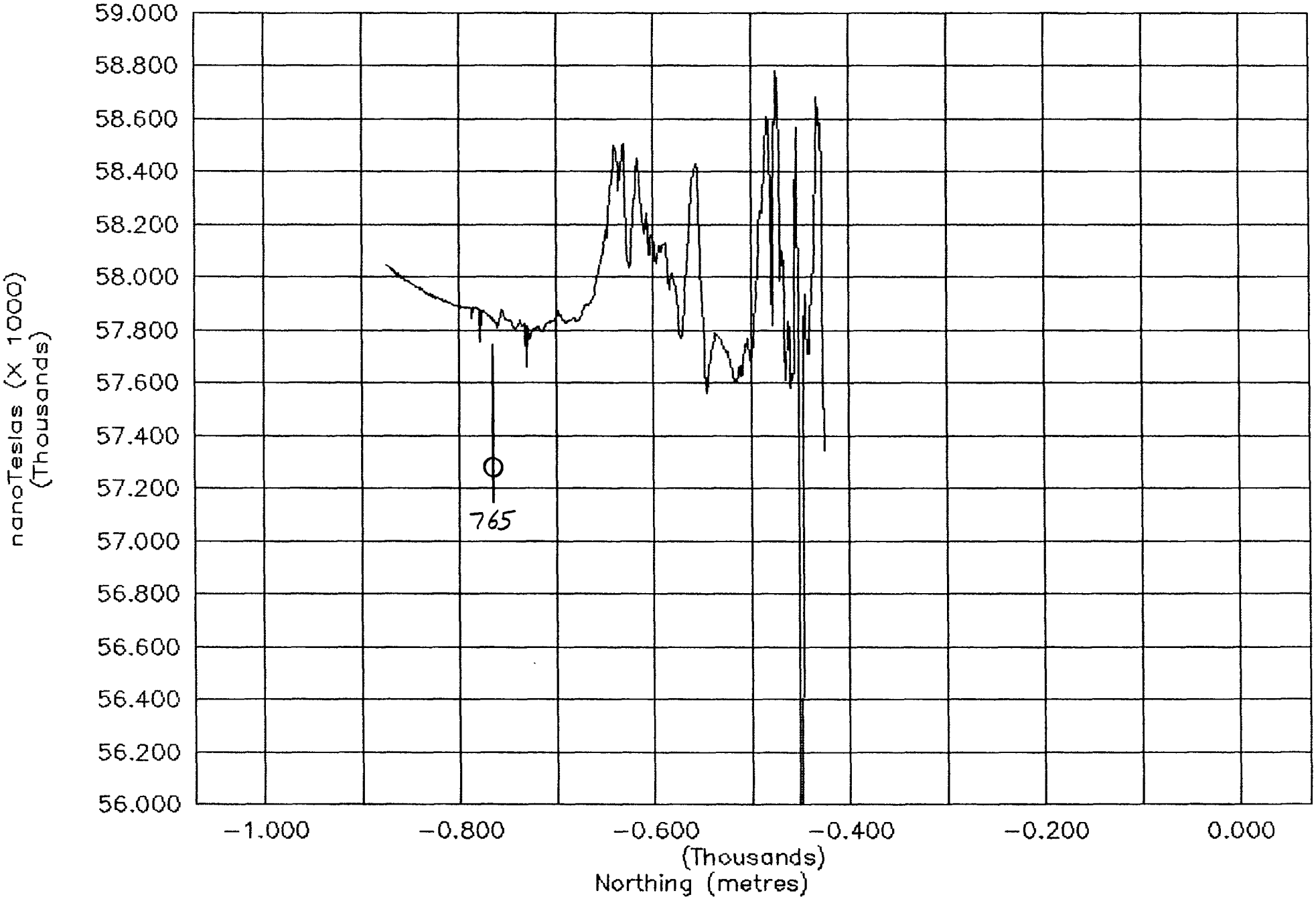
TOTAL MAGNETIC FIELD STRENGTH

EBY Tp. North Grid: Line 3850E



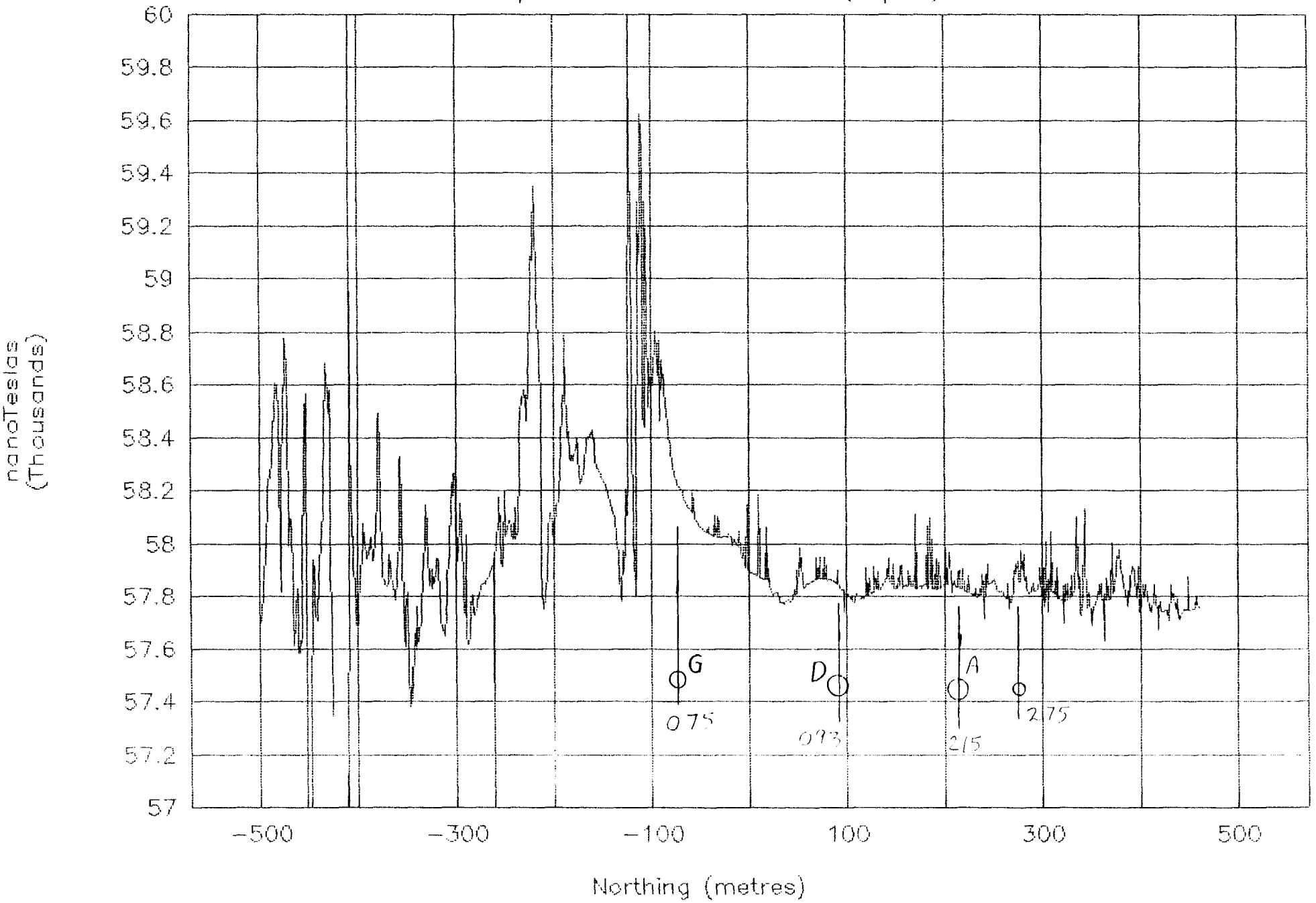
Total Magnetic Field Strength

EBY NORTH GRID: Line 3900E



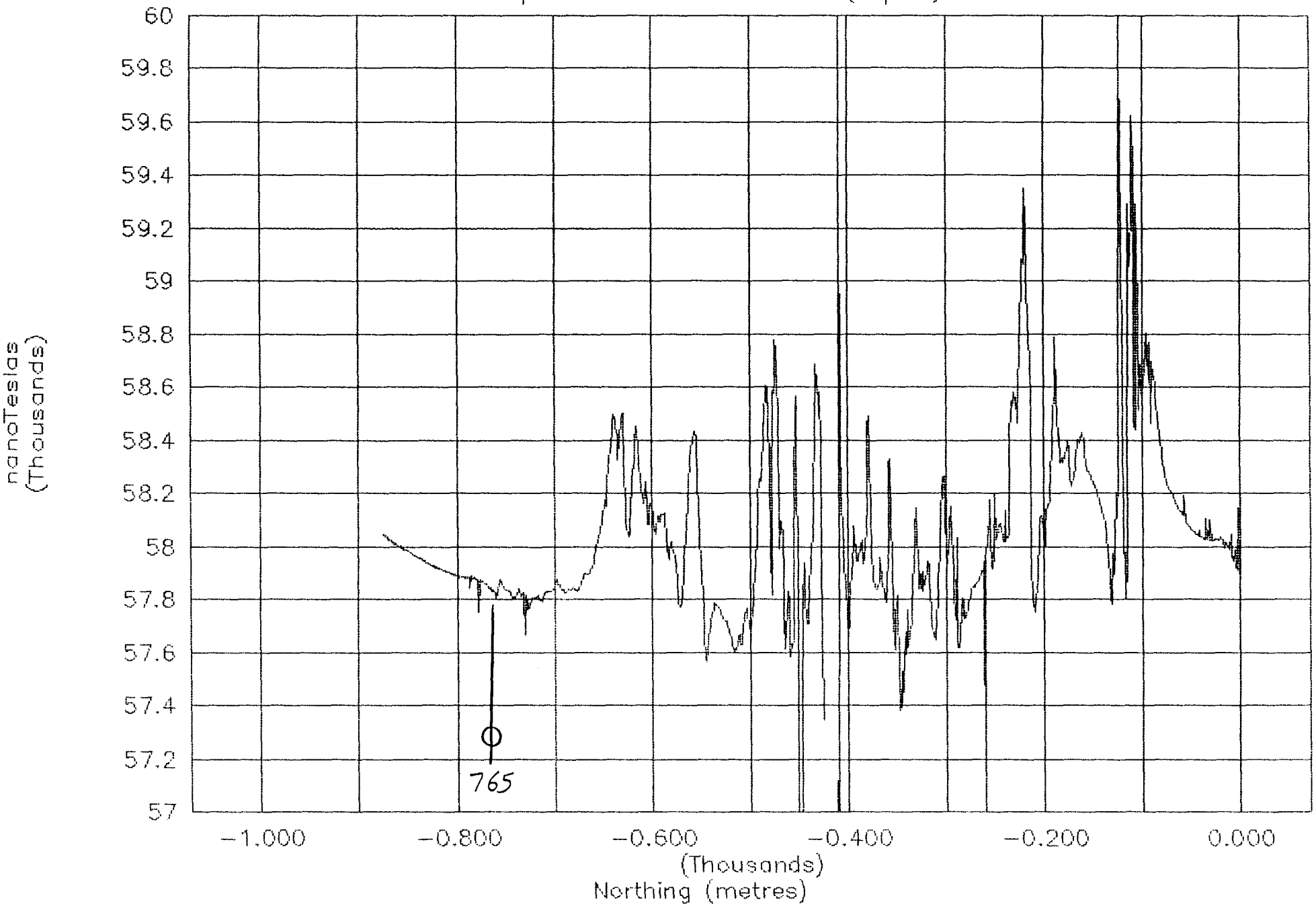
TOTAL MAGNETIC FIELD STRENGTH

EBY Tp. North Grid: Line 3900E (N part)



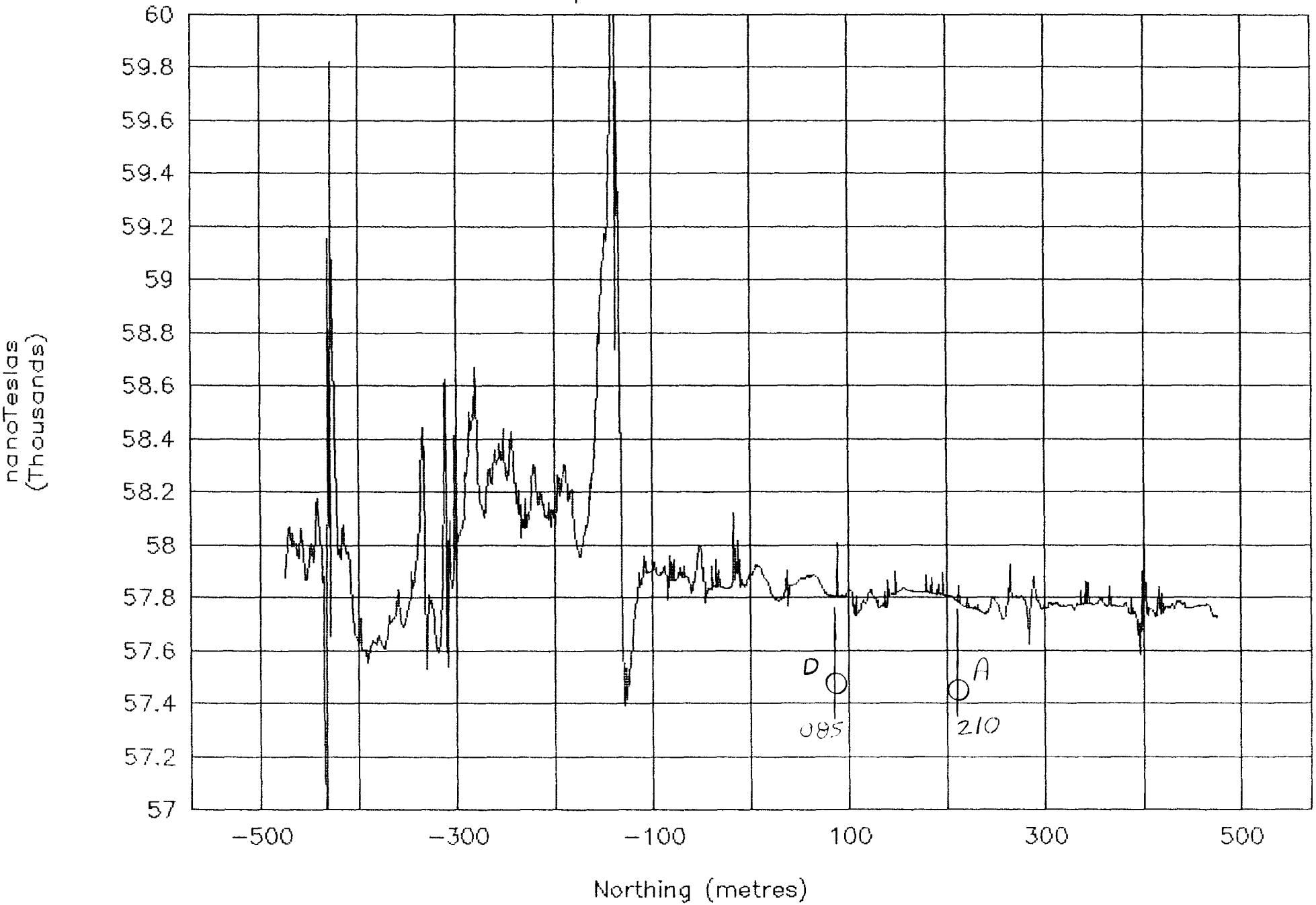
TOTAL MAGNETIC FIELD STRENGTH

EBY Tp. North Grid: Line 3900E (S part)



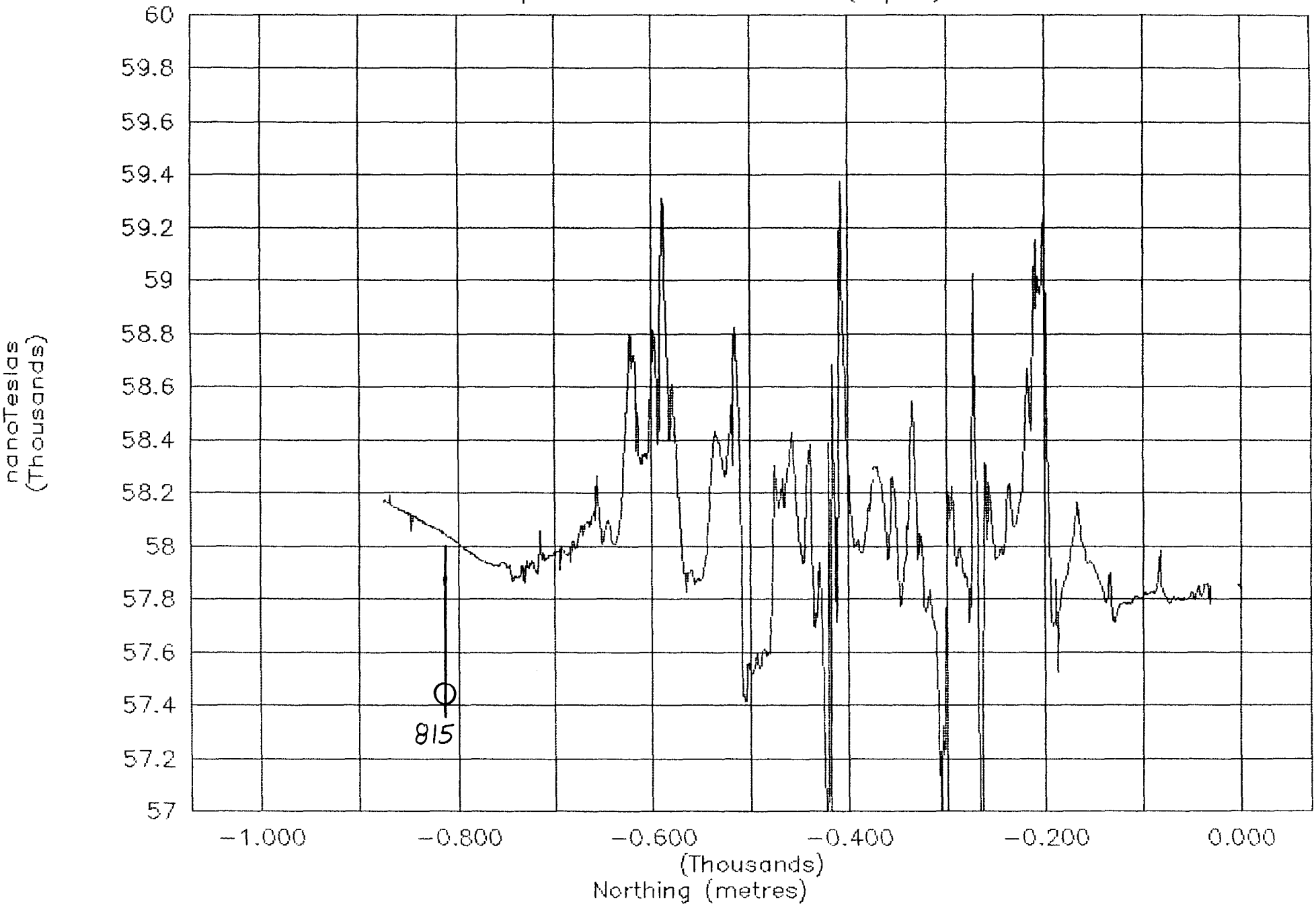
TOTAL MAGNETIC FIELD STRENGTH

EBY Tp. North Grid: Line 3950E



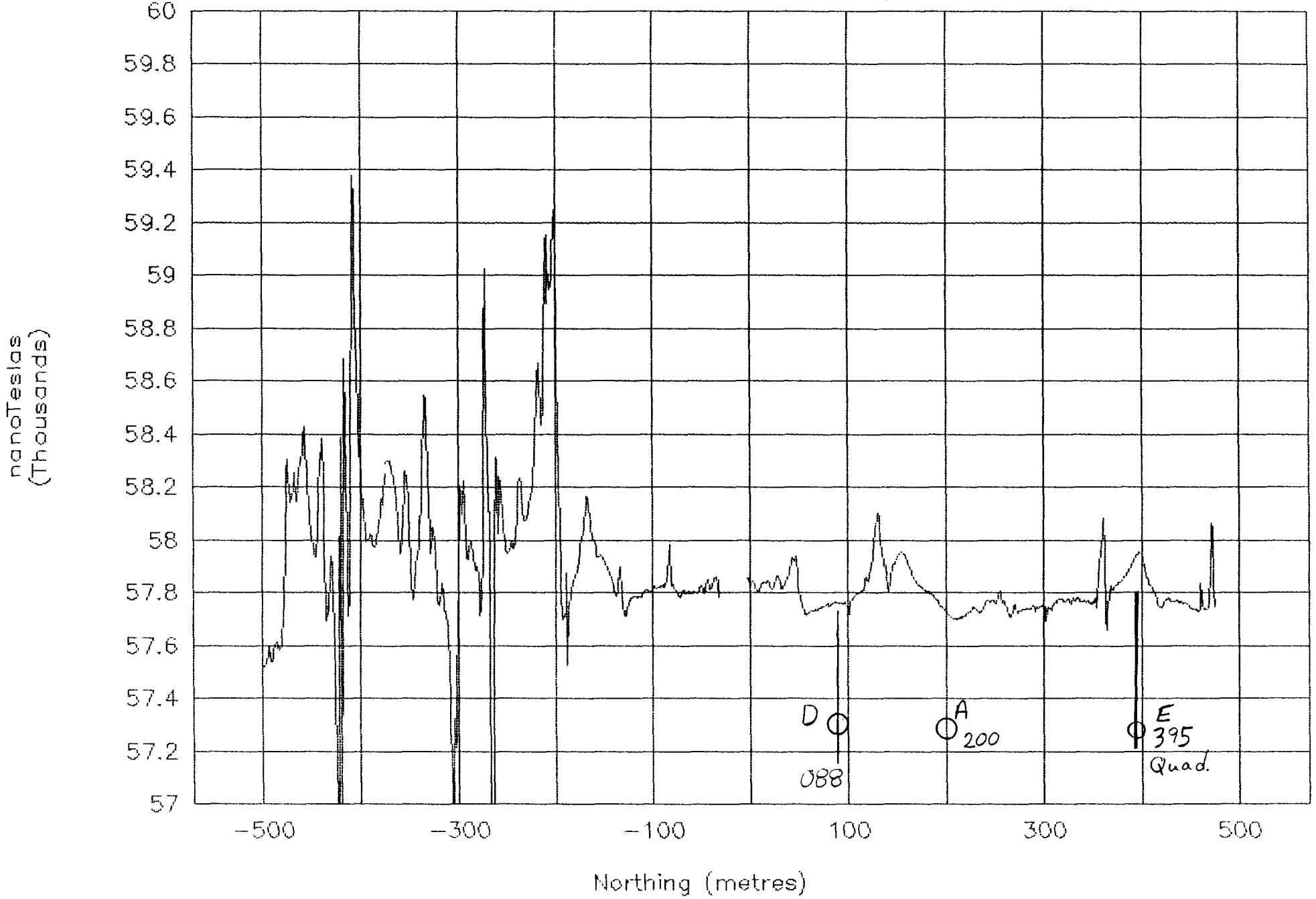
TOTAL MAGNETIC FIELD STRENGTH

EBY Tp. North Grid: Line 4000E (S part)



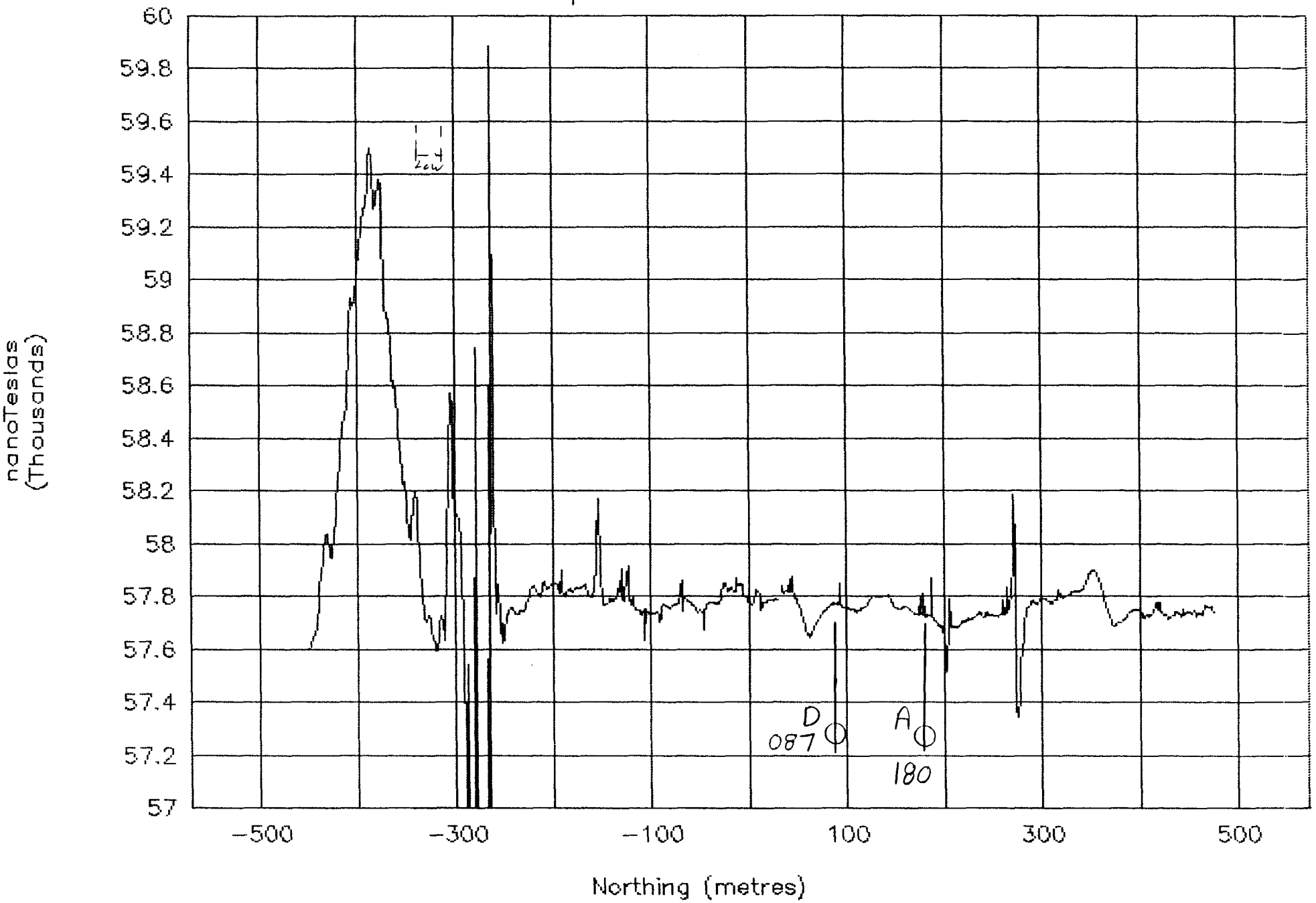
TOTAL MAGNETIC FIELD STRENGTH

EBY Tp. North Grid: Line 4000E (N part)



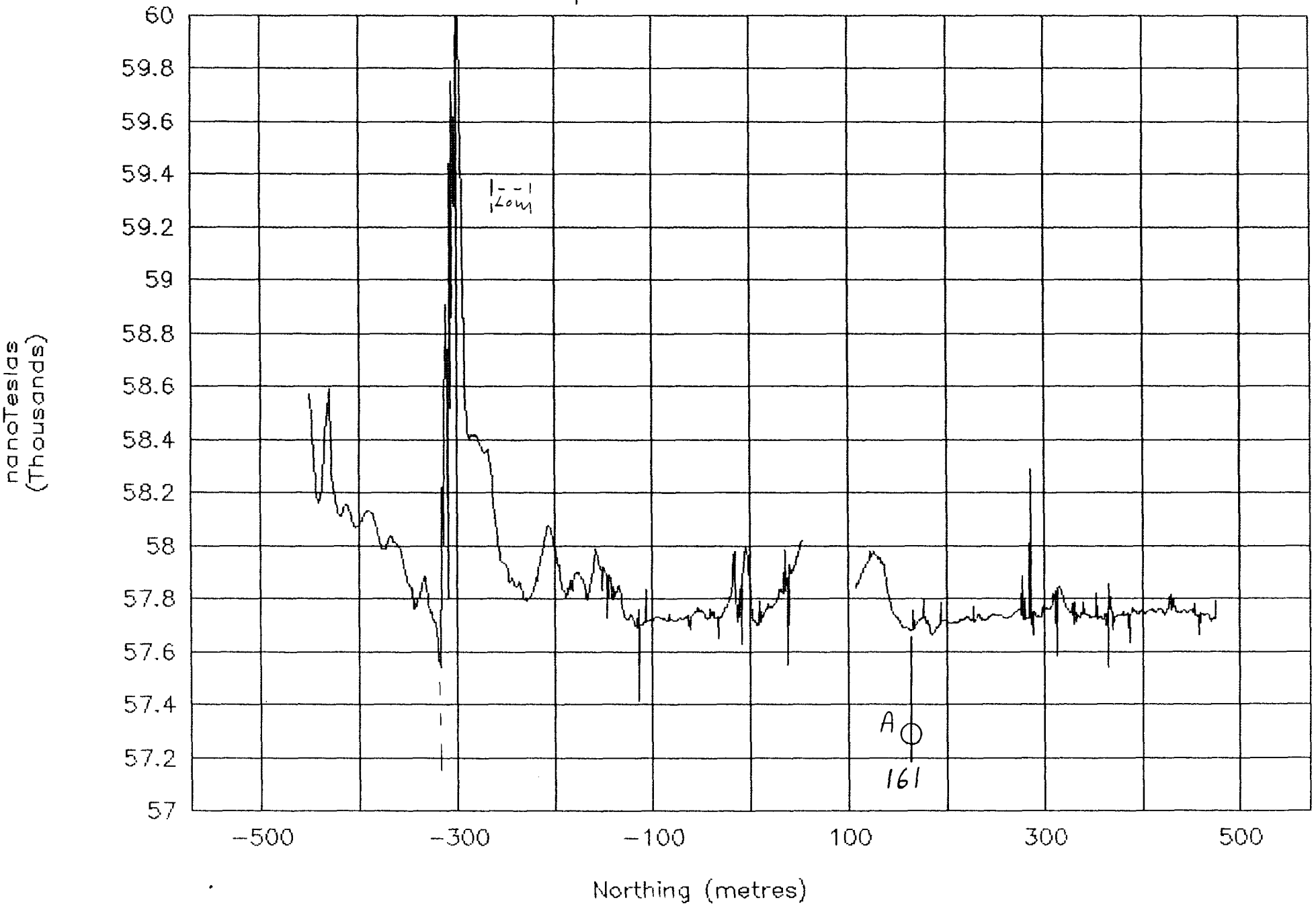
TOTAL MAGNETIC FIELD STRENGTH

EBY Tp. North Grid: Line 4050E



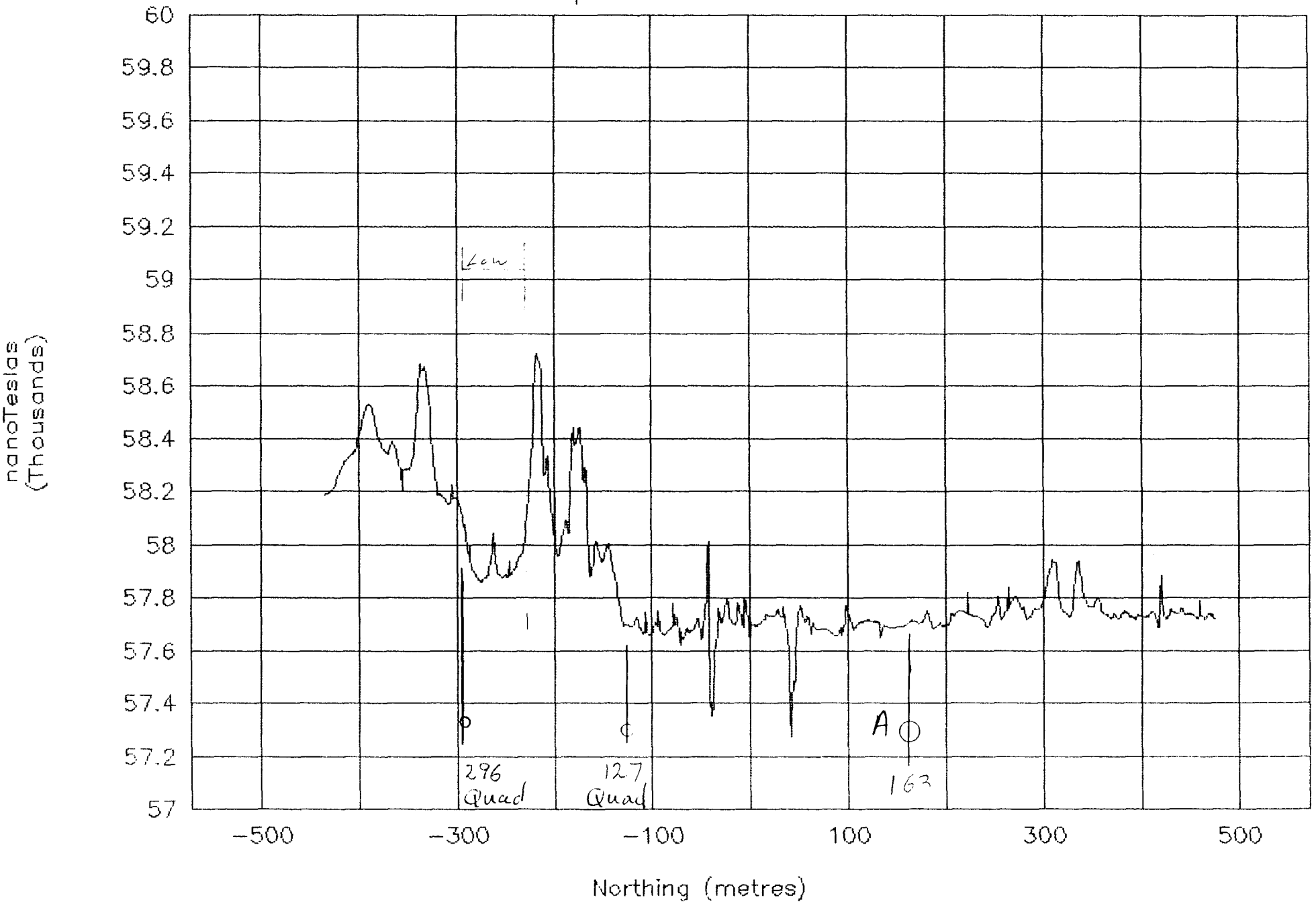
TOTAL MAGNETIC FIELD STRENGTH

EBY Tp. North Grid: Line 4100E



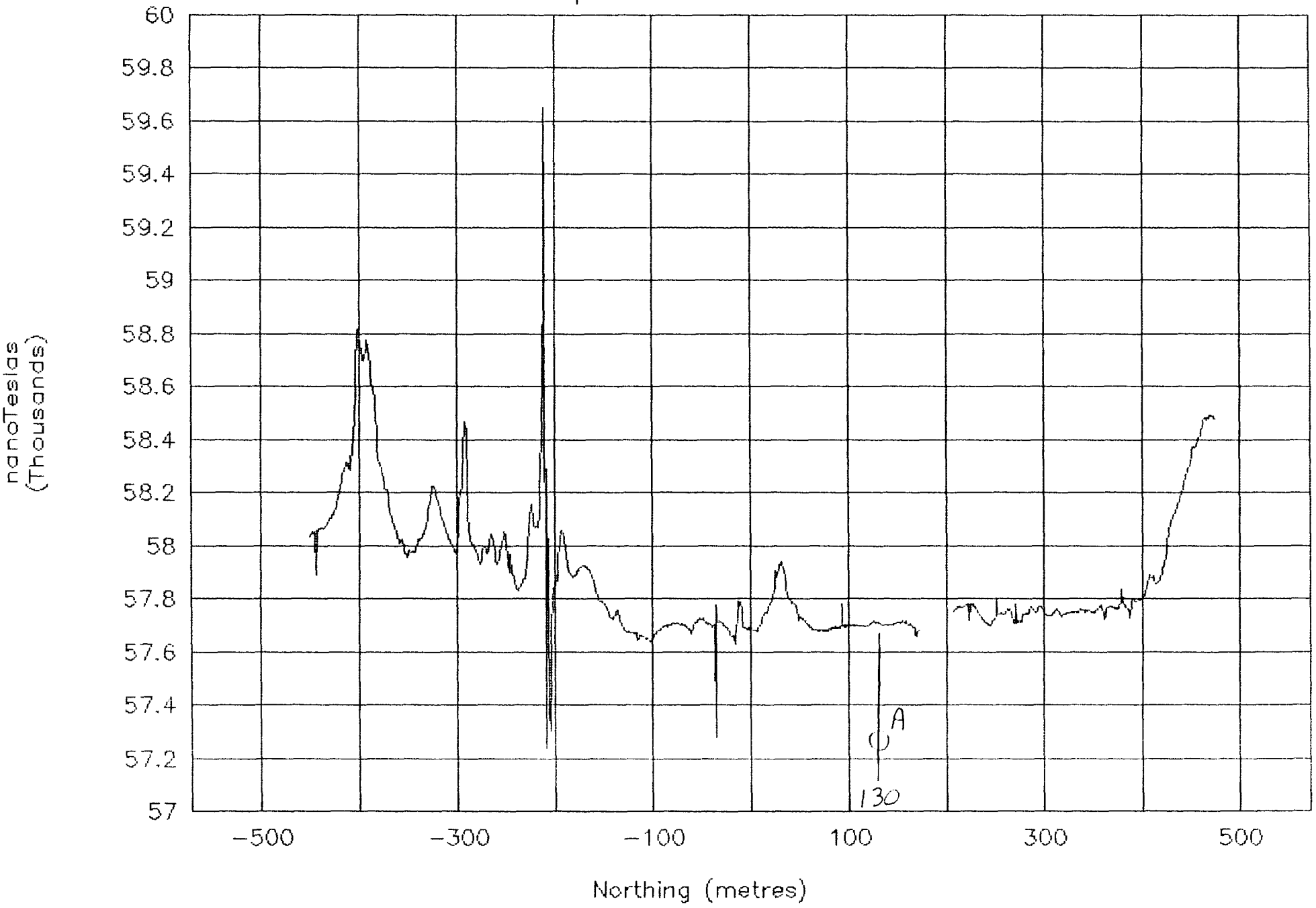
TOTAL MAGNETIC FIELD STRENGTH

EBY Tp. North Grid: Line 4150E



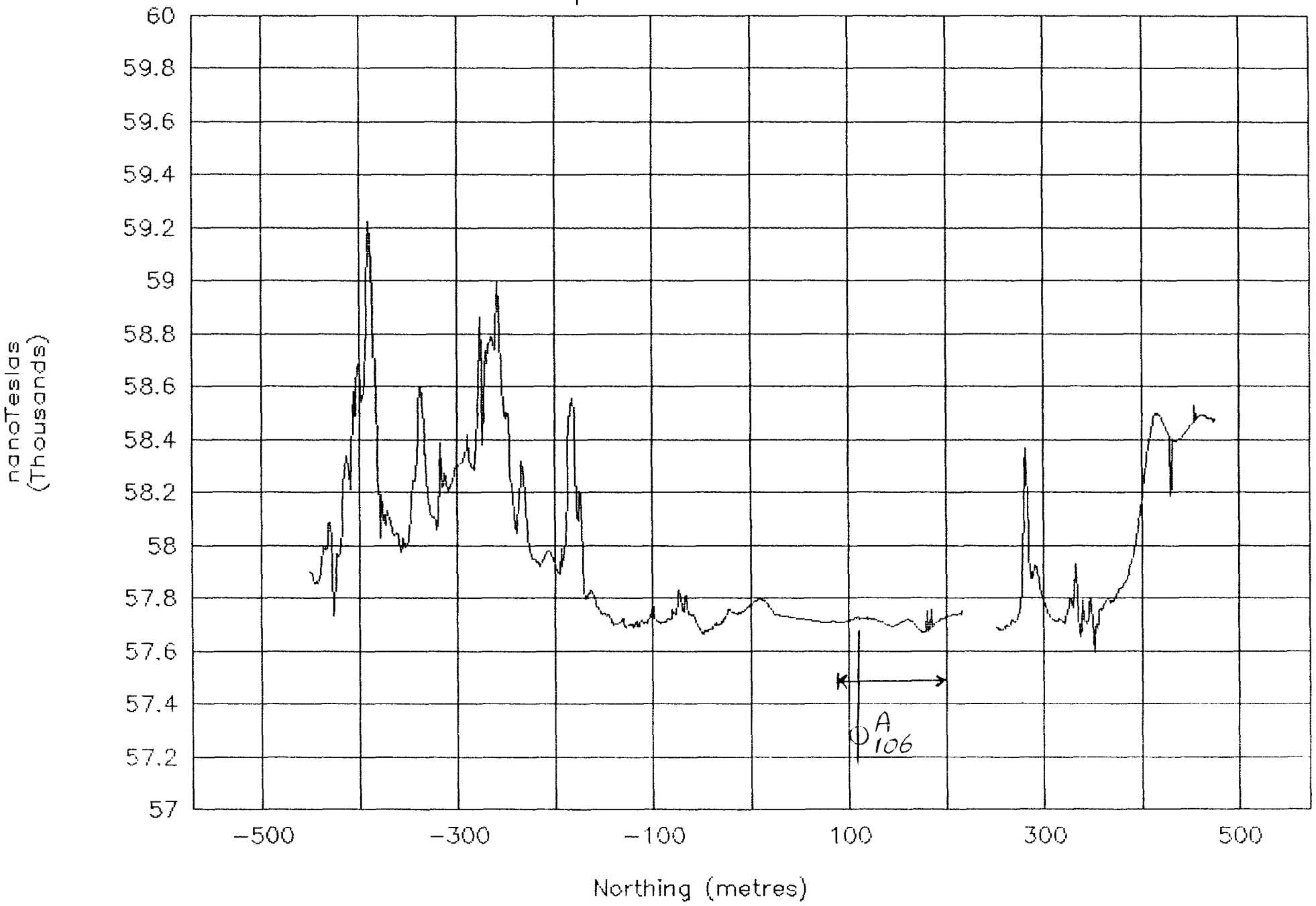
TOTAL MAGNETIC FIELD STRENGTH

EBY Tp. North Grid: Line 4200E



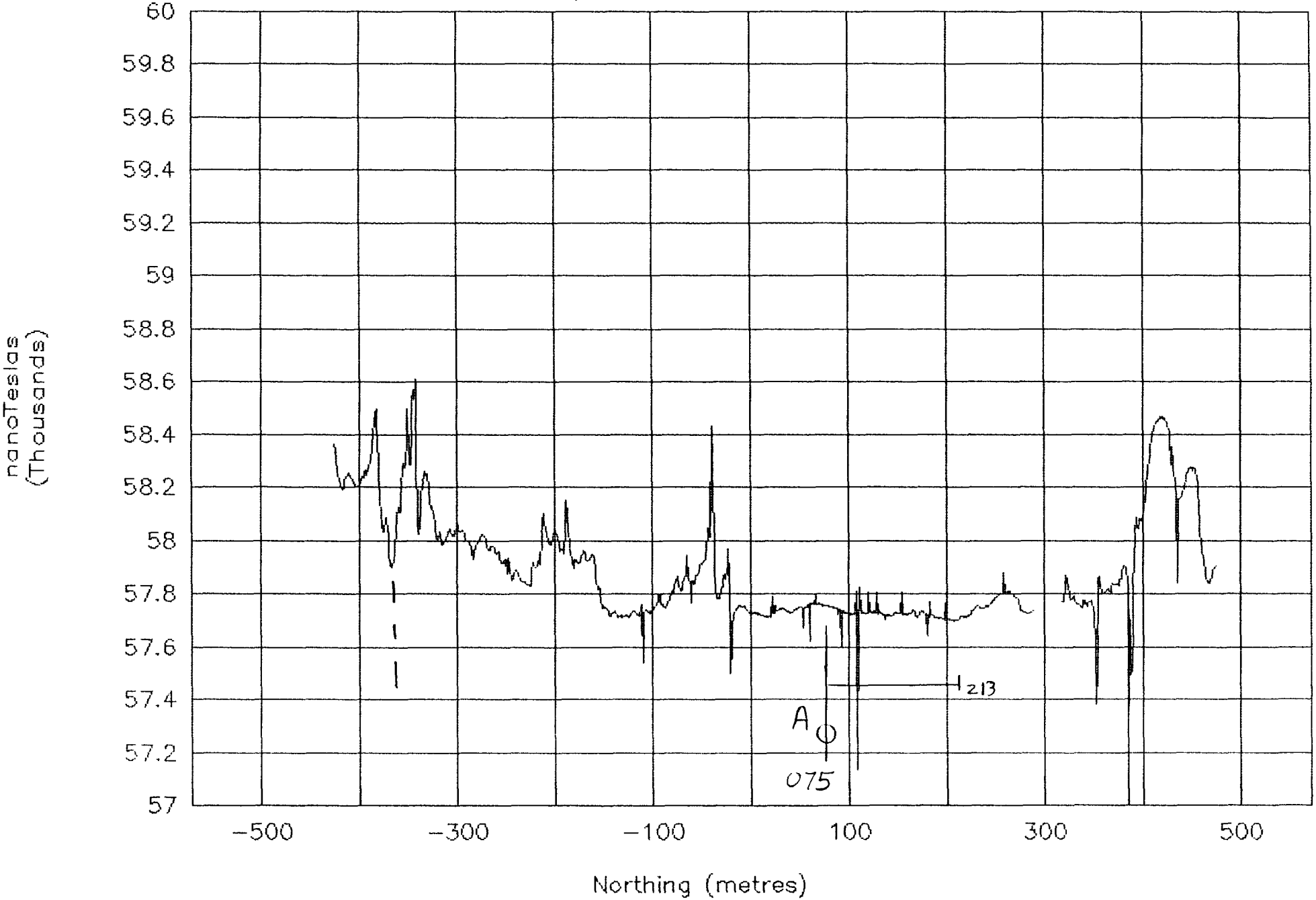
TOTAL MAGNETIC FIELD STRENGTH

EBY Tp. North Grid: Line 4250E



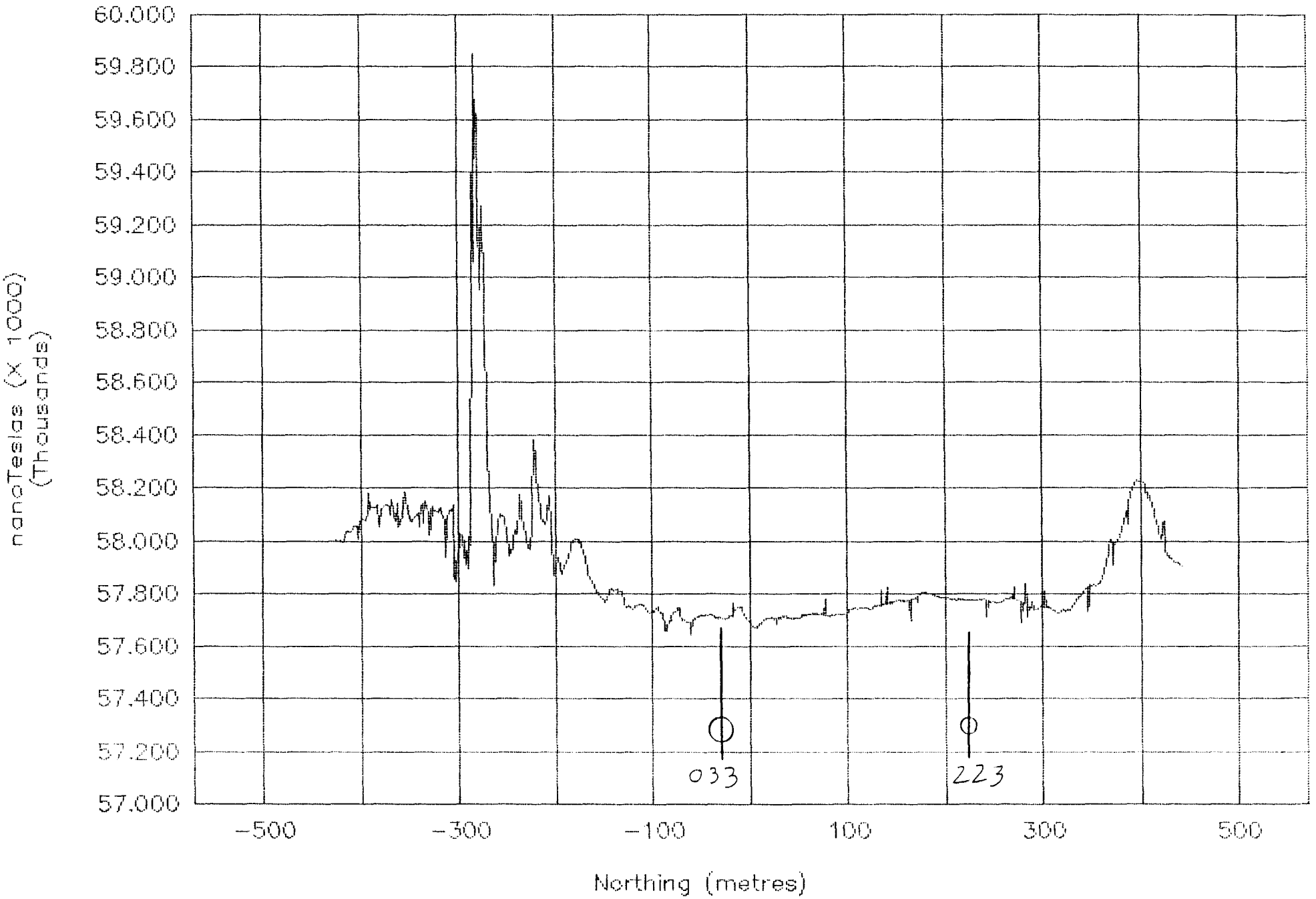
TOTAL MAGNETIC FIELD STRENGTH

EBY Tp. North Grid: Line 4300E



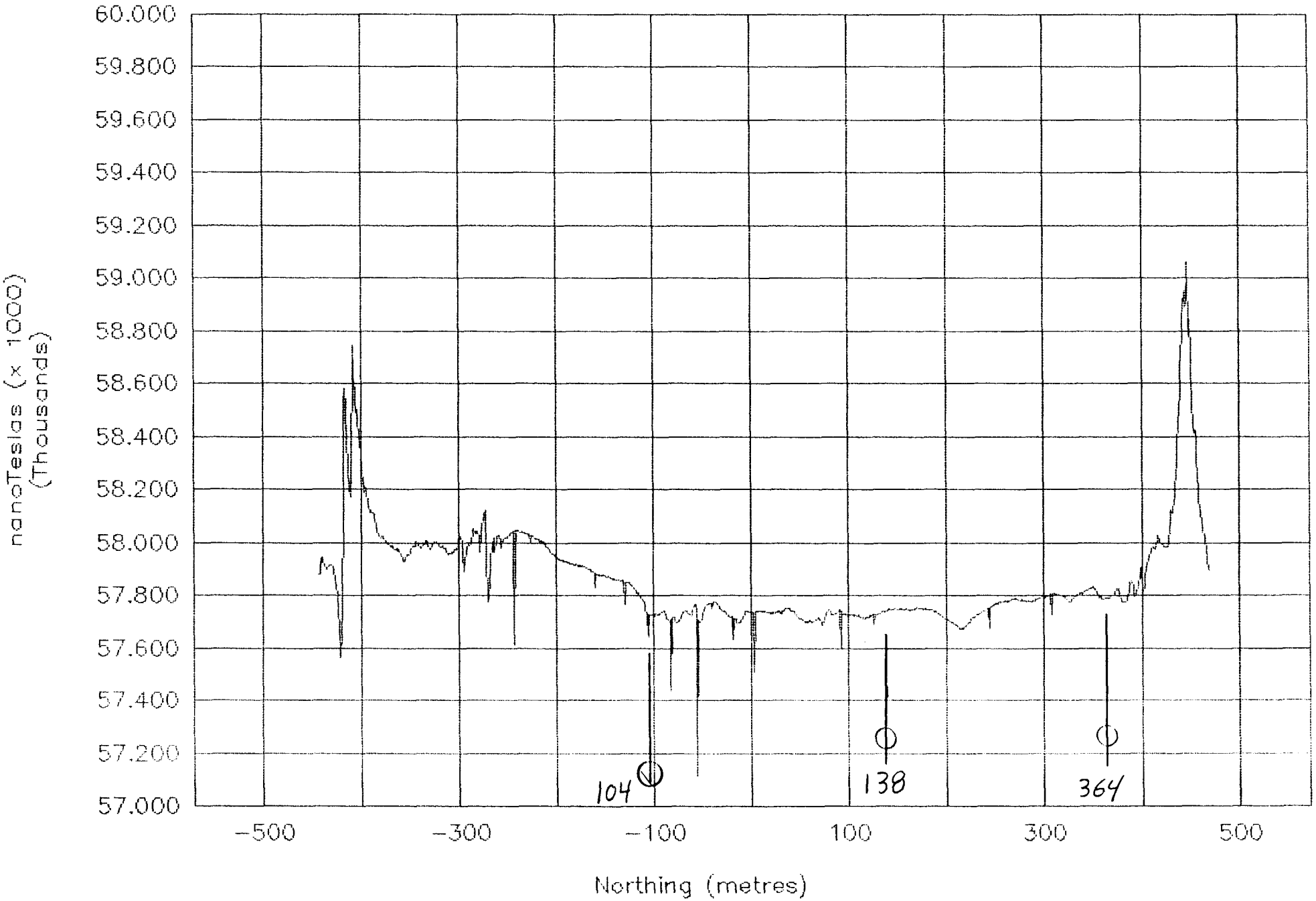
Total Magnetic Field Strength

EBY NORTH GRID: Line 4450E



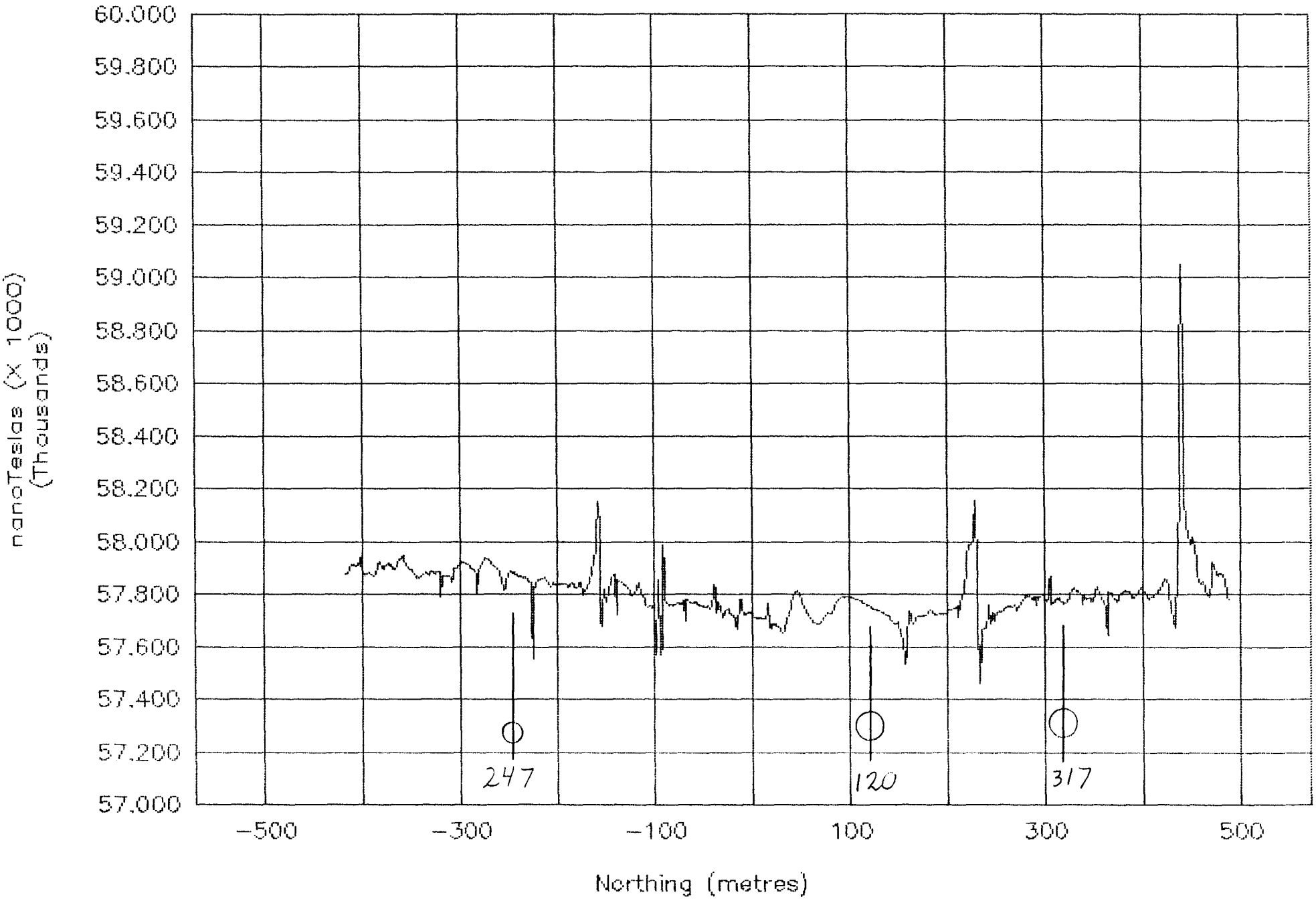
Total Magnetic Field Strength

EBY NORTH GRID:Line 4550E



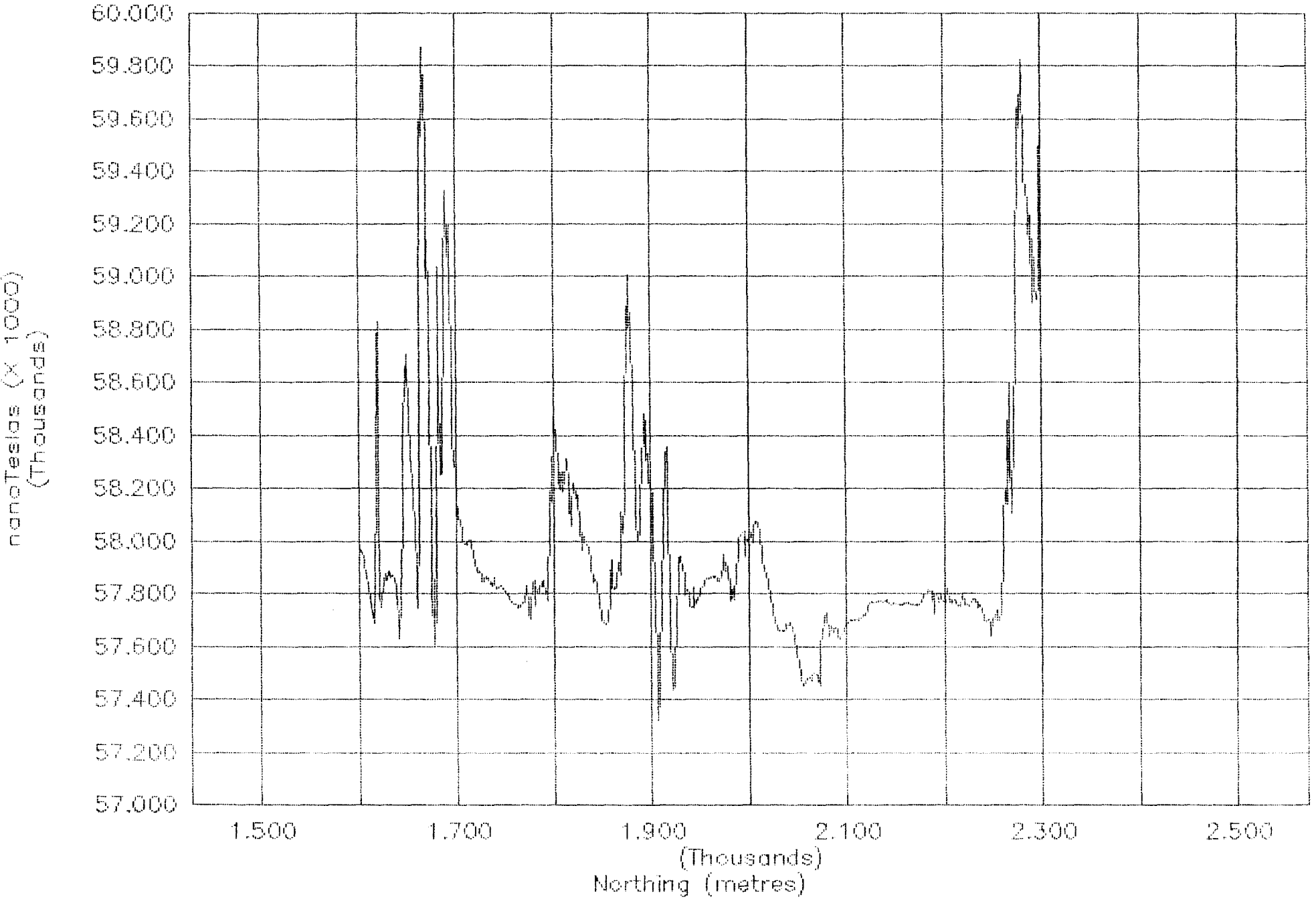
Total Magnetic Field Strength

EBY NORTH GRID: Line 4650E



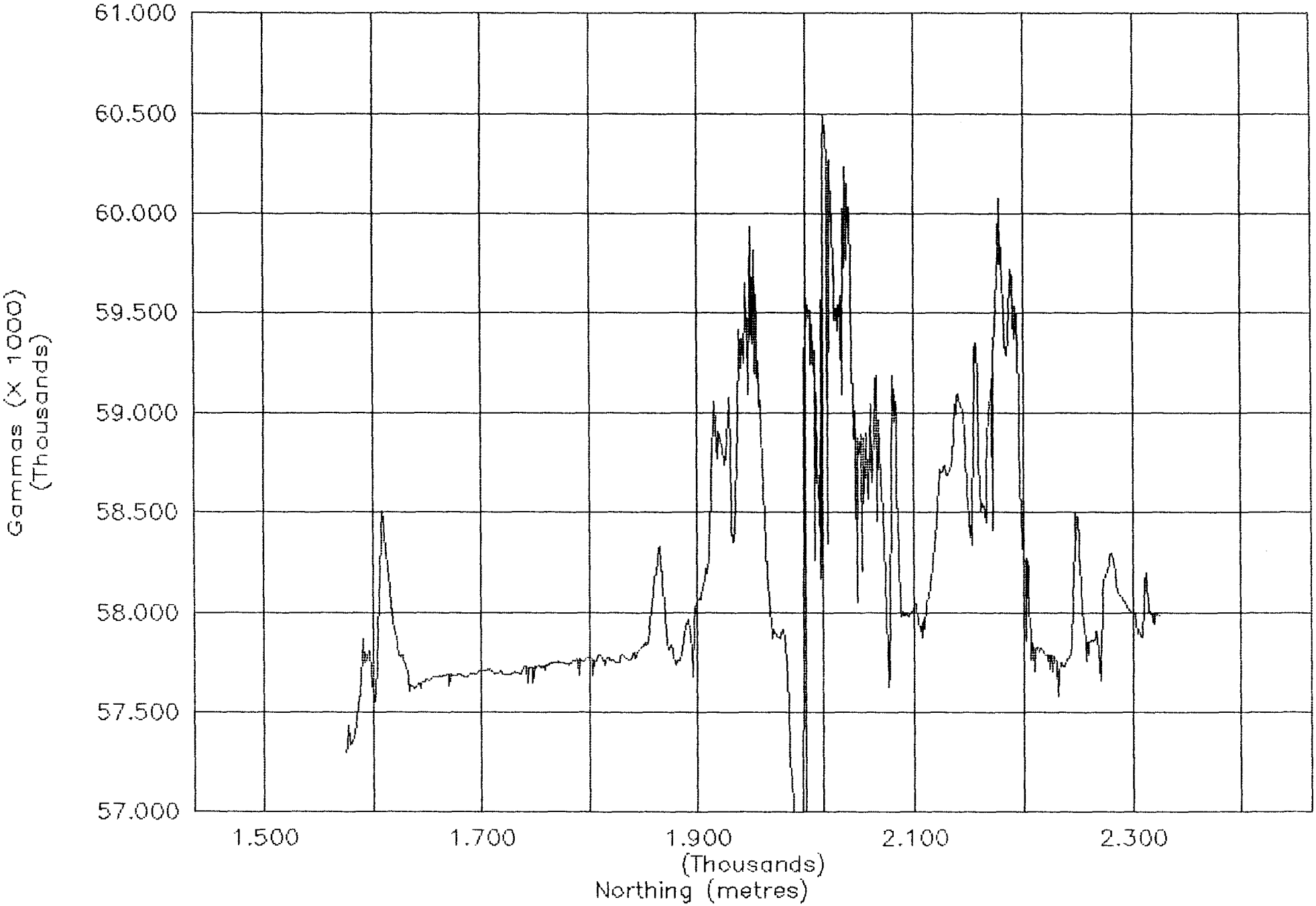
Total Magnetic Field Strength

EBY NORTH GRID: Line 000N



Total Field Strength

EBY NORTH GRID: Line 400N



NASTEK EXPLORATIONS LTD.
EBY NORTH (+Otto Tp) GRID
Kirkland Lake Area
Ontario

Traversed South Aug 26, 1996
MaxMin II (Horizontal Loop EM) (Eby North Grid)

Line 16+00E	3555 Hz IP	3555 Hz OP	888 Hz IP	888 Hz OP	Slope %
450					
425					10
400	2	5	0	1.5	10
375	10	4	1	1	0
350	7	5	3	1	-8
325	10	5	5	1	-5
300	10	5	6	2	0
275	7	4	4	1	2
250	20	4	4	2	-5
225	5	2	3	1	0
200	6	0	5	0	1
175	5	3	6	1	0
150	10	1	10	2	7
125	35	17	20	5	0
100	45	25	35	10	4
75	100	25	75	19	-5
50	-80	-9	-70	-8	-5
25	-40	5	-37	5	0
0	-42	5	-25	-6	0
-25					0
-50					0

Traversed North Aug 26, 1996
MaxMin II (Horizontal Loop EM) (Eby North Grid)

Line 17+00E	3555 Hz IP	3555 Hz OP	888 Hz IP	888 Hz OP	Slope %
450					-10
425					-7
400	-4	4	-2	1	6
375	2	4	2	1	3
350	-1	4	0	1	-2
325	5	5	2	1	3
300	4	4	1.5	0.5	9
275	-1	4	0	0	0
250	4	2	3	0	0
225	2	2	1	0	0
200	0	3	1	0.5	-5
175	5	3	2	1	5
150	2	4	1.5	1	0
125	6	4	3	1	-5
100	2	4	1	1	0
75	1	5	2	2	0
50	9	7	5	2	0
25	35	15	25	5	-9
0	-25	-5	-13	-2	-7
-25					-2
-50					

Traversed South Aug 26, 1996
MaxMin II (Horizontal Loop EM) (Eby North Grid)

Line 18+00E	3555 Hz IP	3555 Hz OP	888 Hz IP	888 Hz OP	Slope %
425					
400					0
375	-3	4	-2	1	0
350	2	4	0	1	2
325	1.5	4.5	1	1	2
300	-7	2	-3	0	-9
275	1	0	-1	0	-1
250	-3	0	1	0	-4
225	-2	2	1	0	1
200	3	4	2	1	1
175	4	4	3	1	3
150	0	4	2	1	0
125	5	4	4	1	-5
100	3	4	2	1	5
75	3	4	1.5	1	6
50	1	5	4	1	2
25	1	6	1	1	0
0	4	6	1	2	-5
-25					-3
-50					-6

Traversed North Aug 26, 1996
MaxMin II (Horizontal Loop EM) (Eby North Grid)

Line 19+00E	3555 Hz IP	3555 Hz OP	888 Hz IP	888 Hz OP	Slope %
425					0
400					-9
375	5	6	0	2	-7
350	4	9	0	2	-7
325	-9	-6	-3	-2	3
300	-7	-6	-1	-3	4
275	-7	-7	1	-3	-5
250	-7	-7	-1	-2	-5
225	2	10	-1	3	-6
200	5	6	0	2	-3
175	3	4	1	1	-1
150	4	4	2	1	2
125	-8	5	1	1	2
100	0	4	1	1	3
75	4	4	2	1	0
50	4	4	2	1	-4
25	-2	5	0	1	-7
0					0
-25					

Traversed south Aug 26, 1996
MaxMin II (Horizontal Loop EM) (Eby North Grid)

Line 20+00E	3555 Hz IP	3555 Hz OP	888 Hz IP	888 Hz OP	Slope %

425					
400					0
375	10	7	7	2	3
350	-1	-2	2	-2	5
325	-11	-10	2	-3	5
300	-2	-4	4	-2	-10
275	8	0	10	-1	3
250	7	7	3	2	13
225	7	6	4	2	16
200	12	5	7	2	6
175	3	4	0	1	-5
150	2	4	-1	1	-4
125	7	4	3	1	0
100	3	4	1	1	-8
75	-2	4	-2	1	-6
50	7	3	4	1	-12
25	9	3	4	1	-2
0	4	3	3	1	0
-25					11
-50					3

Traversed North Aug 26, 1996
MaxMin II (Horizontal Loop EM) (Eby North Grid)

Line 21+00E	3555 Hz IP	3555 Hz OP	888 Hz IP	888 Hz OP	Slope %
425					0
400					-5
375	2	1	1	0	0
350	-10	-5	-4	-3	0
325	-15	-5	-7	-4	0
300	-15	-3	-7	-2	-1
275	7	4	3	1	-12
250	13	7	6	3	-14
225	8	5	4	2	0
200	6	4	5	2	3
175	6	4	3	1	4
150	4	4	3	1	-7
125	4	4	2	1	4
100	10	4	7	1	10
75	1.5	3	0	0.5	0
50	5	4	3	1	2
25	0	4	0	1	-5
0				0	0
-25					

Traversed South Aug 26, 1996
MaxMin II (Horizontal Loop EM) (Eby North Grid)

Line 22+00E	3555 Hz IP	3555 Hz OP	888 Hz IP	888 Hz OP	Slope %
450					
425					0
400	-2	5	-2	1	0
375	0	2	0	0	0

350	-4	1	0	0	0
325	2	1	1	0	-5
300	1	2	-1	0	-7
275	7	5	4	2	1
250	12	4	5	2	0
225	7	4	4	1	3
200	9	5	5	2	4
175	5	5	2	1	4
150	3	4	1	1	-1
125	4	3	2	1	-6
100	1	4	0	1	0
75	3	3	1.5	0.5	10
50	5	3	1	1	-5
25	1	4	1	1	0
0	7	4	4	1	4
-25					0
-50					-3

Traverse North Aug 26, 1996
MaxMin II (Horizontal Loop EM) (Eby North Grid)

Line 23+00E	3555 Hz IP	3555 Hz OP	888 Hz IP	888 Hz OP	Slope %
475					0
450					0
425	-5	5	-7	1	-8
400	-7	5	-7	1	-8
375	-1	5	-3	1	0
350	8	2	10	0	6
325	-1	-1	-1	0	2
300	-3	-2	-1	-1	3
275	3	0	-1	0	3
250	2	5	0	1	-3
225	0	7	-2	2	0
200	3	7	-1	2	0
175	4	4	1	1	6
150	4	4	3	1	0
125	3	5	1	1	-6
100	-1	2	1	1	3
75	6	4	-1	1	-2
50	6	5	2	1	-4
25	3	0	1	0	3
0	5	2	3	1	5
-25					-2
-50					

Traverse south Sept 3, 1996
MaxMin II (Horizontal Loop EM) (Eby North Grid)

Line 30+00E	3555 Hz IP	3555 Hz OP	888 Hz IP	888 Hz OP	Slope %
25					
0					0
-25	5	10	1	5	8
-50	6	11	3	5	12

-75	6	9	4	5	2
-100	6	8	5	5	-2
-125	7	8	6	4	-2
-150	2	8	1	4	7
-175	0	7	0	4	5
-200	4	8	2	4	-1
-225	-1	8	-1	5	1
-250	1	8	3	4	2
-275	0	7	1	4	-1
-300	-3	3	-3	3	-12
-325	1	2.5	-1	3	0
-350	0	7	-1	4	0
-375					0
-400					0

Traversed North Sept 3, 1996
MaxMin II (Horizontal Loop EM) (Eby North Grid)

Line 31+00E	3555 Hz IP	3555 Hz OP	888 Hz IP	888 Hz OP	Slope %
25					
0					
-25	5	3	2	4	0
-50	-5	5	1	3	0
-75	6	4	3	3	-8
-100	3	6	2	4	0
-125	3	8	1	4	-9
-150	2	8	-1	5	-9
-175	3	8	1	4	-4
-200	2	8	3	4	5
-225	5	8	4	4	0
-250	4	9	3	5	0
-275	2	7	3	4	2
-300	0	3	0	3	0
-325	-1	2	-1	3	2
-350	2	-2	2	2	0
-375	1	3	1	3	0
-400	5	0	3	2	0
-425					0
-450					
-475					
-500					
-525					

Traversed South Sept 3, 1996
MaxMin II (Horizontal Loop EM) (Eby North Grid)

Line 32+00E	3555 Hz IP	3555 Hz OP	888 Hz IP	888 Hz OP	Slope %
0					
-25					0
-50	14	7	6	5	0
-75	7	9	3	5	7
-100	2	10	2	5	0
-125	4	8	2	9	3

-150	5	7	2	4	6
-175	3	8	2	4	1
-200	1	7	2	4	-2
-225	5	7	3	4	-3
-250	4	8	3	4	-1
-275	5	10	2	4	2
-300	6	7	2	4	0
-325	6	6	3	4	-3
-350	14	6	12	3	0
-375	5	6	4	3	0
-400					11
-425					12

NASTEK EXPLORATIONS LTD.
EBY NORTH (+Otto Tp) GRID
Kirkland Lake Area
Ontario

Traversed South Sept 3, 1996
MaxMin II (Horizontal Loop EM) (Eby North Grid)

Line 33+50E	3555 Hz IP	3555 Hz OP	888 Hz IP	888 Hz OP	Slope %
400					
375					0
350	1	7	4	4	0
325	4	7	3	4	0
300	-1	9	-2	5	0
275	3	7	0	4	0
250	11	7	8	4	0
225	5	7	2	5	0
200	2	9	3	5	7
175	17	14	8	7	6
150	25	13	11	9	-6
125	-45	-5	-18	-6	-11
100	-50	-4	-25	-9	0
75	-60	-4	-30	-11	0
50	-52	-4	-25	-7	1
25	14	3	5	5	0
0	20	7	13	8	0
-25	12	5	7	5	3
-50	8	8	1	5	8
-75	6	11	3	5	13
-100	7	9	4	5	0
-125	2	9	0	4	-1
-150	-3	10	1	4	-6
-175	2	8	1	5	-6
-200	2	9	0	4	0
-225	-3	7	-1	5	0
-250	1	5	1	5	-7
-275	0	7	-1	4	0
-300	5	6	2	3	0
-325	2	6	-1	3	0
-350	3	8	3	4	16
-375	2	10	-1	4	6
-400	3	8	1	5	7
-425	3	8	3	3	2
-450	3	9	1	3	3
-475	3	9	2	4	0
-500	0	11	0	3	0
-525	5	8	12	3	-5
-550	4	13	3	5	-1
-575	10	20	2	3	10
-600	13	9	9	4	-10
-625	7	14	4	5	-15
-650	6	12	2	4	0
-675	3	10	0	4	3
-700	3	10	0	0	4
-725	10	35	3	20	4

-750	2	14	6	15	5
-775	13	13	8	11	5
-800	13	13	11	7	2
-825	13	13	9	10	-3
-850	-35	-2	-30	0	-4
-875	-35	8	-35	1	-17
-900					-14
-925					-12

Traversed North Aug 31, 1996
MaxMin II (Horizontal Loop EM) (Eby North Grid)

Line 34+25E	3555 Hz IP	3555 Hz OP	888 Hz IP	888 Hz OP	Slope %	Old
362					0	375
338					0	350
314	0	2	-1	2	0	325
290	-2	4	-3	2	0	300
266	1	4	-2	2	0	275
241	-3	4	-3	2	0	250
217	-2	5	-2	3	-11	225
193	2	8	-1	3	0	200
169	8	11	2	5	-5	175
145	8	11	2	5	8	150
-3	-3	0	0	1	8	125
97	-8	-4	-1	0	0	100
72	-19	-8	-5	-3	0	75
48	-21	-6	-8	3	0	50
24	-9	5	-7	1	0	25
0	-3	5	-5	2	0	0
-24	2	4	-2	2	0	-25
-48	2	4	-1	3	0	-50
-72	-1	4	-2	2	0	-75
-96	2	5	1	3	-6	-100
-120	-1	6	-1	3	-4	-125
-144	-3	5	-3	2	2	-150
-168	-4	7	-4	3	-2	-175
-193	-5	6	-1	3	0	-200
-217	1	4	0	2	2	-225
-241	0	2	-1	2	0	-250
-265	1	3	-1	2	0	-275
-289	-1	5	-3	2	0	-300
-313	0	3	-1	2	0	-325
-337	1	3	1	2	0	-350
-361	1	5	-1	2	-5	-375
-385	-2	7	-2	3	-11	-400
-409	-1	6	-3	3	-11	-425
-433	0	6	-2	3	0	-450
-457	-1	5	-3	3	3	-475
-481	-1	7	-4	3	0	-500
-505	3	7	-3	3	6	-525
-529	1	12	-1	3	-1	-550
-553	0	15	-2	10	2	-575
-578	0	25	-1	15	2	-600
-602	7	75	6	70	0	-625

-626	5	20	5	20	0	-650
-650	0	20	0	20	-5	-675
-674	6	13	3	12	-10	-700
-698	2	15	5	12	-5	-725
-722	8	16	3	6	-4	-750
-746	10	10	9	5	0	-775
-770	13	16	11	13	13	-800
-794	15	15	20	12	13	-825
-818	-50	5	-37	-3	20	-850
-842					15	-875
-866						-900

Traversed South Aug 31, 1996
MaxMin II (Horizontal Loop EM) (Eby North Grid)

Line 35+25E	3555 Hz IP	3555 Hz OP	888 Hz IP	888 Hz OP	Slope	
375						375
350					-7	350
325	1	6	2	2	-5	325
300	-1	4	-2	2	-6	300
275	1	5	-1	2	0	275
250	3	8	0	3	0	250
225	9	9	3	3	0	225
200	-4	2	1	2	0	200
175	-2	0	-2	1	0	175
150	-12	-5	-1	-3	0	150
125	-18	-9	-4	-4	0	125
100	-5	1	-1	0	5	100
75	-2	-3	1	1	-2	75
50	9	2	2	2	-5	50
25	3	3	0	3	0	25
0	3	3	0	3	3	0
-25	5	10	1	4	6	-25
-50	6	9	4	3	-5	-50
-74	1	7	-1	3	-5	-75
-99	6	6	6	3	0	-100
-123	-3	6	-4	3	2	-125
-148	-1	7	-2	3	2	-150
-173	-2	6	-1	2	1	-175
-197	2	5	-1	2	-6	-200
-222	-1	4	-2	2	0	-225
-247	-3	-2	-2	0	0	-250
-271	-1	5	-2	1	0	-275
-296	0	1	-1	2	0	-300
-320	3	1	1	1	0	-325
-344	2	6	-2	0	0	-350
-668	3	10	-1	5	0	-375
-393	6	13	2	10	9	-400
-418	12	10	6	3	7	-425
-442	9	10	4	2	-4	-450
-466	10	15	7	5	-8	-475
-490	1	9	2	7	-9	-500
-514	2	15	1	14	10	-525
-538	3	35	0	35	-5	-550
-563	2	40	0	30	-5	-575

-587	8	25	8	18	-4	-600
-611	9	13	7	12	-5	-625
-635	5	13	3	9	11	-650
-659	3	12	1	6	16	-675
-683	3	8	-1	4	4	-700
-707	3	11	0	4	-2	-725
-731	1	11	6	4	4	-750
-755	11	6	8	5	0	-775
-779	14	8	8	5	-5	-800
-803	23	6	13	5	-17	-825
-827					-21	-850
-851					-18	-875

Traversed North Aug 31, 1996
MaxMin II (Horizontal Loop EM) (Eby North Grid)

Line 36+00E	3555 Hz IP	3555 Hz OP	888 Hz IP	888 Hz OP	Slope %	
375					-2	375
350					4	350
325	4	4	1	2	6	325
300	1	6	-1	3	0	300
275	1	5	0	3	0	275
250	-3	7	0	4	0	250
225	5	7	1	4	0	225
200	6	6	2	4	4	200
175	-20	-4	-6	-3	0	175
150	-27	-4	-10	-3	0	150
125	-35	-5	-15	-3	-15	125
100	-14	-1	1	0	-6	100
75	19	11	9	6	11	75
50	6	-2	6	3	6	50
25	8	-1	8	2	0	25
0	2	0	2	2	-9	0
-24	4	6	1	3	-4	-25
-48	6	11	1	4	-2	-50
-72	2	7	0	3	4	-75
-97	5	5	1	2	4	-100
-121	3	6	1	3	-8	-125
-145	9	6	1	3	4	-150
-169	4	7	2	3	4	-175
-193	0	7	-1	3	-3	-200
-217	0	10	-1	5	0	-225
-241	-5	8	-1	3	0	-250
-265	-1	2	0	1	0	-275
-290	-4	2	-2	1	0	-300
-314	1	0	-1	2	0	-325
-338	-11	6	-4	4	0	-350
-362	0	4	0	3	0	-375
-386	1	14	2	14	0	-400
-410	0	25	3	25	0	-425
-434	1	25	3	17	0	-450
-458	-1	10	0	5	0	-475
-483	5	9	2	7	0	-500

-507	4	9	1	6	0	-525
-531	15	8	6	4	0	-550
-555	3	4	2	4	0	-575
-579	1	5	0	3	-7	-600
-603	0	7	1	4	-6	-625
-627	-2	8	1	5	-8	-650
-651	5	8	2	3	-10	-675
-676	3	6	3	3	-4	-700
-700	4	14	7	4	5	-725
-724	3	6	3	4	5	-750
-748	7	9	3	4	0	-775
-772	14	9	9	5	13	-800
-796	15	9	10	5	22	-825
-820	6	2	4	3	20	-850
-844					0	-875
-869						-900

Traversed South Aug 31, 1996
MaxMin II (Horizontal Loop EM) (Eby North Grid)

Line 37+00E	3555 Hz IP	3555 Hz OP	888 Hz IP	888 Hz OP	Slope
0					
-25					0
-50	3	3	3	1	0
-75	6	8	3	3	0
-100	6	8	2	3	0
-125	10	9	6	3	4
-150	6	11	5	3	4
-175	3	9	3	3	15
-200	9	15	8	5	2
-225	7	23	3	10	-7
-250	0	11	-3	2	-5
-275	5	15	-1	5	-4
-300	1	5	-1	5	0
-325	6	12	5	12	0
-350	15	45	15	49	0
-375	-2	7	-2	10	0
-400	-2	-3	-2	5	0
-425	1	-5	1	2	0
-450	1	2	3	3	0
-475	1	7	-1	4	0
-500	0	8	-2	3	4
-525	-2	12	-1	5	-4
-550	3	10	2	4	0
-575	5	7	2	3	0
-600	-4	7	2	3	1
-625	9	7	1	4	0
-650	4	7	3	3	4
-675	8	7	4	4	6
-700	0	8	5	4	6
-725	8	4	9	4	-6
-750	13	8	7	5	-3
-775	8	10	3	5	-20
-800	-5	5	-2	2	-17
-825					0

-850					0

Traversed North Sept 3, 1996
MaxMin II (Horizontal Loop EM) (Eby North Grid)

Line 38+00E	3555 Hz IP	3555 Hz OP	888 Hz IP	888 Hz OP	Slope %
0					0
-25					0
-50	6	9	3	6	0
-75	4	14	5	8	-17
-100	4	16	3	10	-7
-125	9	22	8	12	2
-150	6	14	3	10	0
-175	7	44	3	32	0
-200	8	70	5	55	0
-225	5	9	11	12	5
-250	1	10	2	8	5
-275	13	14	8	13	0
-300	9	13	7	9	10
-325	7	7	4	7	0
-350	8	4	6	3	0
-375	3	11	-2	10	0
-400	2	7	-1	7	0
-425	1	4	-2	4	0
-450	2	6	1	3	0
-475	2	5	0	4	-6
-500	-3	7	-3	5	0
-525	1	8	-1	4	-4
-550	1	7	-1	5	0
-575	16	6	6	4	5
-600	0	7	1	5	2
-625	5	10	3	5	2
-650	6	8	4	4	1
-675	3	8	3	5	1
-700	10	9	5	5	4
-725	22	13	11	9	9
-750	-25	0	-13	-2	10
-775	-48	-1	-30	-6	2
-800	-50	-3	-30	-6	0
-825	-40	-8	-25	-7	0
-850					0
-875					

Traversed South Sept 3, 1996
MaxMin II (Horizontal Loop EM) (Eby North Grid)

Line 39+00E	3555 Hz IP	3555 Hz OP	888 Hz IP	888 Hz OP	Slope %
0					
-25					0
-50	2	11	1	10	0
-75	-1	9	-3	10	0
-100	6	13	4	17	1

-125	6	40	7	40	3
-150	4	27	-1	24	4
-175	6	16	9	13	10
-200	6	11	5	9	6
-225	5	12	3	6	-6
-250	6	10	1	5	-3
-275	7	10	4	5	1
-300	0	10	4	5	-6
-325	5	12	3	5	-6
-350	6	9	5	5	-3
-375	3	8	2	5	7
-400	0	10	-3	6	-2
-425	3	8	0	5	3
-450	2	9	2	5	5
-475	4	7	4	4	5
-500	1	6	0	4	-6
-525	2	8	0	5	-5
-550	2	8	0	5	7
-575	2	7	1	5	0
-600	0	8	-1	5	-5
-625	1	8	-2	5	-5
-650	-1	9	-3	5	-6
-675	4	8	-1	5	-9
-700	6	10	1	6	-8
-725	-5	4	-2	3	0
-750	-6	0	-3	2	-6
-775	-10	-3	-4	2	0
-800	-7	-9	-1	0	0
-825	16	-2	6	6	0
-850					0
-875					0

Traversed North Sept 3, 1996
MaxMin II (Horizontal Loop EM) (Eby North Grid)

Line 40+00E	3555 Hz IP	3555 Hz OP	888 Hz IP	888 Hz OP	Slope %
0					0
-25					0
-50	7	12	4	6	-3
-75	6	12	3	5	-3
-100	10	9	6	4	3
-125	10	8	7	4	3
-150	12	9	10	5	-4
-175	8	8	3	4	-3
-200	3	12	3	5	-11
-225	3	10	2	4	-3
-250	5	10	5	4	0
-275	0	8	-2	5	0
-300	4	8	5	4	6
-325	4	8	2	4	5
-350	2	8	1	4	2
-375	3	7	3	4	3
-400	1	8	2	4	0
-425	0	8	3	4	0
-450	2	6	2	4	0

-475	-3	8	1	4	-1
-500	1	7	0	4	2
-525	4	6	3	5	2
-550	3	8	3	4	-5
-575	4	8	2	4	0
-600	1	7	-1	5	0
-625	3	8	1	5	-2
-650	0	7	-1	5	-11
-675	10	9	8	5	2
-700	10	10	6	5	17
-725	11	9	6	6	14
-750	8	6	5	5	0
-775	-3	-2	0	2	0
-800	-15	-9	-2	-1	0
-825	-12	-12	1	0	0
-850					0
-875					

Traversed South Aug 29, 1996
MaxMin II (Horizontal Loop EM) (Eby North Grid)

Line 44+50E	3555 Hz IP	3555 Hz OP	888 Hz IP	888 Hz OP	Slope %
400	2	5	2	4	
375	3	18	2	15	0
350	9	14	2	7	0
325	6	16	2	6	0
300	9	6	5	2	0
275	1	-3	3	1	0
250	-4	-6	0	-2	0
225	-9	-6	-1	-3	0
200	-10	-3	-4	-2	0
175	-3	-2	-1	-1	0
150	9	1	1	1	0
125	25	5	7	4	0
100	40	7	16	7	0
75	60	8	36	10	0
50	85	17	45	15	0
25	5	-4	10	2	0
0	-75	-3	-55	-12	0
-25	-85	-2	-60	-10	0
-50	-73	-5	-50	-10	1
-75	-37	0	-20	-7	3
-100	37	12	25	13	12
-125	15	8	10	4	5
-150	17	6	6	3	3
-175	3	5	3	2	4
-200	6	5	2	2	6
-225	4	5	2	2	10
-250	1	5	2	1	3
-275	2	5	1	1	0
-300	4	5	1	1	-15
-325	3	6	1	2	-5
-350	3	3	1	1	-8
-375	-1	4	0	1	-5

-400					-3	
-425					0	
-450					0	
-475					0	

Traversed South Aug 29, 1996
MaxMin II (Horizontal Loop EM) (Eby North Grid)

Line 45+50E	3555 Hz IP	3555 Hz OP	888 Hz IP	888 Hz OP	Slope %	
470						450
444					-15	425
418	9	15	4	11	-22	400
392	-5	13	-8	1	-10	375
365	-14	12	-11	-6	-15	350
339	-18	-2	-10	-2	0	325
313	16	19	4	7	0	300
287	23	9	8	5	0	275
261	27	15	10	7	0	250
235	32	14	10	8	0	225
209	45	20	12	10	0	200
183	22	5	6	4	0	175
157	10	4	2	1	0	150
131	7	3	3	2	0	125
104	18	10	7	5	2	100
78	35	17	16	9	4	75
52	42	9	23	7	0	50
26	40	4	24	5	2	25
0	22	-1	14	2	0	0
-26	-5	5	-4	2	0	-25
-52	-20	5	-18	0	0	-50
-78	-50	-1	-37	-4	0	-75
-104	-48	-3	-37	-7	0	-100
-130	-50	-6	-37	-8	0	-125
-156	-30	-3	-17	-6	0	-150
-182	4	-3	3	1	0	-175
-209	10	3	3	3	0	-200
-235	3	3	0	2	0	-225
-261	4	3	2	2	0	-250
-287	4	9	-1	2	4	-275
-313	3	8	-1	3	4	-300
-339	3	7	0	3	2	-325
-365	4	7	-1	3	-5	-350
-391					-4	-375
-417					0	-400

Traversed North Aug 29, 1996
MaxMin II (Horizontal Loop EM) (Eby North Grid)

Line 46+500	3555 Hz IP	3555 Hz OP	888 Hz IP	888 Hz OP	Slope %	
464					25	450
438					10	425
412	15	13	15	10	15	400
387	10	8	10	5	10	375

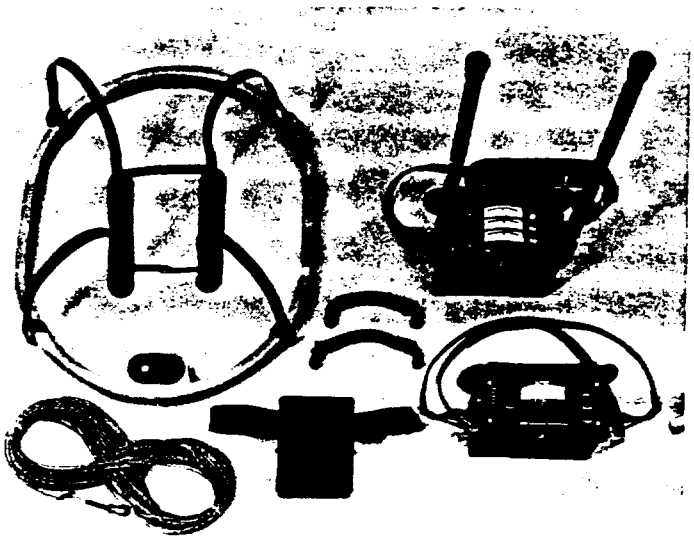
361	-57	3	-35	-10	0	350
335	-75	4	-60	-6	0	325
309	-50	7	-50	-4	0	300
284	-65	2	-50	-7	-3	275
258	-8	0	-4	-1	-7	250
232	44	18	25	10	-5	225
206	90	25	50	20	30	200
180	37	-7	35	5	5	175
155	-35	-8	-13	-8	0	150
129	-73	-7	-47	-12	0	125
103	-69	-6	-45	-11	0	100
77	-3	0	0	-1	0	75
52	44	8	27	7	0	50
26	50	15	25	10	-15	25
0	45	20	22	10	-12	0
-26	35	17	17	8	-20	-25
-52	25	15	13	6	0	-50
-78	25	10	10	5	5	-75
-104	23	10	8	6	0	-100
-130	18	9	5	5	-10	-125
-156	30	15	9	8	3	-150
-182	40	25	8	10	10	-175
-209	-30	-15	-2	-7	10	-200
-235	-30	-15	-2	-6	15	-225
-261	-25	-10	-2	-4	0	-250
-287	1	-7	5	-1	0	-275
-313	25	15	7	7	0	-300
-339	-5	-3	1	-1	0	-325
-365	2	7	-2	2	0	-350
-391					0	-375
-417						-400

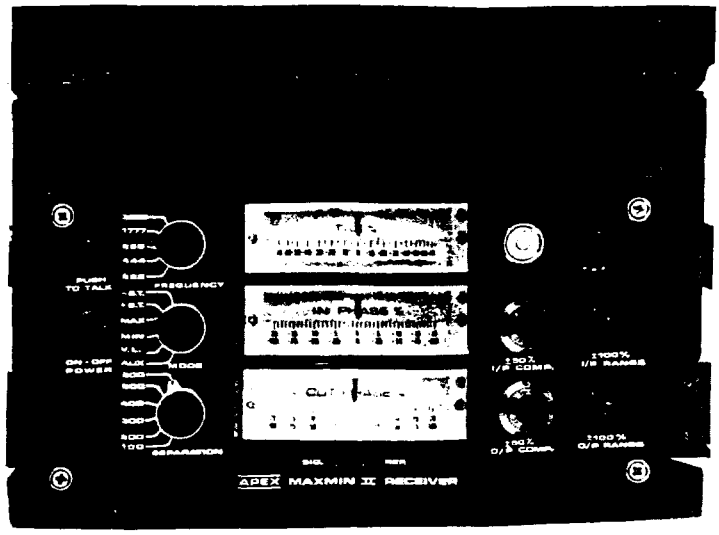
Traversed North Aug 29, 1996
MaxMin II (Horizontal Loop EM) (Eby North Grid)

Line 47+35E	3555 Hz IP	3555 Hz OP	888 Hz IP	888 Hz OP	Slope %	
464					0	450
438					10	425
412	-13	5	-3	-1	-10	400
386	-45	-2	-23	-7	-8	375
361	-36	0	-23	-4	-5	350
335	-35	2	-25	-5	-14	325
309	-12	2	-7	-4	0	300
283	60	15	35	17	10	275
258	75	17	37	13	20	250
232	80	17	45	14	12	225
206	75	13	50	13	10	200
180	25	6	19	3	10	175
155	-33	-3	-13	-5	12	150
129	-50	-3	-35	-8	3	125
103	-30	-5	-15	-3	4	100
77	-55	-7	-30	-7	0	75
52	-70	-5	-48	-7	0	50
26	-57	-6	-37	-7	0	25
0	-37	-5	-20	-5	0	0

16

-25	-4	-13	12	-4	-4	-25
-50	27	4	12	4	-2	-50
-75	27	11	12	6	-17	-75
-100	35	15	15	7	-5	-100
-125	26	20	10	8	5	-125
-150	32	12	8	7	0	-150
-175	5	2	8	6	0	-175
-200	5	3	-1	1	0	-200
-225	-16	-4	-7	-4	-10	-225
-250	-24	-5	-7	-4	0	-250
-275	-16	-4	-4	-4	-5	-275
-300	5	4	7	1	20	-300
-325	6	10	6	3	0	-325
-350	10	10	3	4	5	-350
-375	14	9	6	4	23	-375
-400					0	-400
-425						-425





SPECIFICATIONS :

Frequencies: 222, 444, 888, 1777 and 3555 Hz.

Modes of Operation:
- MAX: Transmitter coil plane and receiver coil plane horizontal (Max-coupled; Horizontal-loop mode). Used with refer. cable.
- MIN: Transmitter coil plane horizontal and receiver coil plane vertical (Min-coupled mode). Used with reference cable.
- V.L. : Transmitter coil plane vertical and receiver coil plane horizontal (Vertical-loop mode). Used without reference cable, in parallel lines.

Coil Separations: 25, 50, 100, 150, 200 & 250 m (MMII) or 100, 200, 300, 400, 600 and 800 ft. (MMIIF).
Coil separations in V.L. mode not restricted to fixed values.

Parameters Read:
- In-Phase and Quadrature components of the secondary field in MAX and MIN modes.
- Tilt-angle of the total field in V.L. mode.

Readouts:
- Automatic, direct readout on 90 mm (3.5") edgewise meters in MAX and MIN modes. No nulling or compensation necessary.
- Tilt angle and null in 90 mm edgewise meters in V.L. mode.

Scale Ranges:
- In-Phase: ±20%, ±100% by push-button switch.
- Quadrature: ±20%, ±100% by push-button switch.
- Tilt: ±75% slope.
- Null (V.L.): Sensitivity adjustable by separation switch.

Readability: In-Phase and Quadrature: 0.25 % to 0.5 % ; Tilt: 1 %.

Repeatability: ±0.25 % to ±1% normally, depending on conditions, frequencies and coil separation used.

Transmitter Output:
- 222 Hz : 220 Atm^2
- 444 Hz : 200 Atm^2
- 888 Hz : 120 Atm^2
- 1777 Hz : 60 Atm^2
- 3555 Hz : 30 Atm^2

Receiver Batteries: 9V trans. radio type batteries (4). Life: approx. 35 hrs. continuous duty (alkaline, 0.5 Ah), less in cold weather.

Transmitter Batteries: 12V 6 Ah Gel-type rechargeable battery. (Charger supplied).

Reference Cable: Light weight 2-conductor teflon cable for minimum friction. Unshielded. All reference cables optional at extra cost. Please specify.

Voice Link: Built-in intercom system for voice communication between receiver and transmitter operators in MAX and MIN modes, via reference cable.

Indicator Lights: Built-in signal and reference warning lights to indicate erroneous readings.

Temperature Range: -40°C to +60°C (-40°F to +140°F).

Receiver Weight: 6kg (13 lbs.)

Transmitter Weight: 13kg (29 lbs.)

Shipping Weight: Typically 60kg (135 lbs.), depending on quantities of reference cable and batteries included. Shipped in two field/shipping cases.

Specifications subject to change without notification.

APEX PARAMETRICS LIMITED
BOX 818, P.R. NO.1, UXBRIDGE, ONTARIO, CANADA L0C 1K0

Phone: (416) 640-6102 850-6975 Cables: APEXPARA TORONTO Telex: 06-966625 APEXPARA UXB

SCINTREX

ENVI-MAG Environmental Magnetometer/Gradiometer

Locating Buried Drums and Tanks?

The NEW ENVI-MAG is the solution to this environmental problem. ENVI-MAG is an inexpensive, lightweight, portable "WALKMAG" which enables you to survey large areas quickly and accurately.

ENVI-MAG is a portable, proton precession magnetometer and/or gradiometer, for geotechnical, archaeological and environmental applications where high production, fast count rate and high sensitivity are required. It may also be used for other applications, such as mineral exploration, and may be configured as a total-field magnetometer, a vertical gradiometer or as a base station.

The ENVI-MAG

- easily detects buried drums to depths of 10 feet or more
- more sensitive to the steel of a buried drum than EM or radar
- much less expensive than EM or radar
- survey productivity much higher than with EM or radar

Main features include:

- select sampling rates as fast as 2 times per second
- "WALKMAG" mode for rapid acquisition of data
- large internal memory, expandable to 200,000 readings
- easy to read, large LCD screen displays data both numerically and graphically
- ENVIMAP software for processing and mapping data

ENVI-MAG comprises several basic modules; a lightweight console with a large screen alphanumeric display and high capacity memory, a staff mounted sensor and sensor cable, rechargeable battery and battery charger, RS-232 cable and ENVIMAP processing and mapping software.

For gradiometry applications an upgrade kit is available, comprising an additional processor module for installation in the console, and a second sensor with a staff extender.



ENVI-MAG Proton Magnetometer in operation

For base station applications a Base Station Accessory Kit is available so that the sensor and staff may be converted into a base station sensor.

Features and Benefits

"WALKMAG" Magnetometer/Gradiometer

The "WALKMAG" mode of operation (sometimes known as "Walking Mag") is user-selectable from the keyboard. In this mode, data is acquired and recorded at the rate of 2 readings per second as the operator walks at a steady pace along a line. At desired intervals, the operator "triggers" an event marker by a single key stroke, assigning coordinates to the recorded data.

True Simultaneous Gradiometer

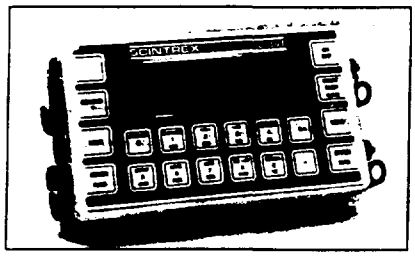
An optional upgrade kit is available to configure ENVI-MAG as a gradiometer to make true, simultaneous gradiometer measurements. Gradiometry is useful for geotechnical and archaeological surveys where small near surface magnetic *targets are the object of the survey.*

Selectable Sampling Rates

0.5 second, 1 second and 2 second reading rates user selectable from the keyboard.

Large-Key Keypad

The large-key keypad allows easy access for gloved-hands in cold-weather operations. Each key has a multi-purpose function.



Front panel of ENVI-MAG showing a graphic profile of data and large-key keypad

Large Capacity Memory

ENVI-MAG with standard memory stores up to 28,000 readings of total field measurements, 21,000 readings of gradiometry data or 151,000 readings as a base station. An expanded memory option is available which increases this standard capacity by a factor of 5.

Easy Review of Data

For quality of data and for a rapid analysis of the magnetic characteristics of the survey line, several modes of review are possible. These include the measurements at the last three stations, the ability to scroll through any or all previous readings in memory, and a graphic display of the previous data as profiles, line by line. This feature is very useful for environmental and archaeological surveys.

Highly Productive

The "WALKMAG" mode of operation acquires data rapidly at close station intervals, ensuring high-definition results. This increases survey productivity by a factor of 5 when compared to a conventional magnetometer survey.

"Datacheck" Quality Control of Data

"Datacheck" provides a feature wherein at the end of each survey line, data may be reviewed as a profile on ENVI-MAG's screen. Datacheck confirms that the

instrument is functioning correctly and allows the user to note the magnetic relief (anomaly) on the line.

Large Screen Display

"Super-Twist" 64 x 240 dot (8 lines x 40 characters), LCD graphic screen provides good visibility in all light conditions. A display heater is optionally available for low-temperature operations below 0°C.



Close-up of the ENVI-MAG screen showing data presented after each reading

Interactive Menus

The set-up of ENVI-MAG is menu-driven, and minimizes the operator's learning time, and on-going tasks.



Close-up of display of ENVI-MAG showing interactive set-up menu

Rechargeable Battery and Battery Charger

An "off-the-shelf" lead-acid battery and charger are provided as standard. The low-cost "Camcorder" type battery is available from electronic parts distributors everywhere.

HELP-Line Available

Purchasers of ENVI-MAG are provided with a HELP-Line telephone number to call in the event assistance is needed with an application or instrumentation problem.

ENVIMAP Processing and Mapping Software

Supplied with ENVI-MAG, and custom designed for this purpose, is easy-to-use, very user-friendly, menu driven data processing and mapping software called ENVIMAP. This unique software appears to the user to be a single program, but is in fact a sequence of separate programs, each performing a specific task. Under the menu system, there are separate programs to do the following:

a) read the ENVI-MAG data and reformat it into a standard compatible with the ENVIMAP software
b) grid the data into a standard grid format
c) create a vector file of posted values
d) contour the gridded data
e) autoscale the combined results of the posting/surround step and the contouring step to fit on a standard 8.5 ins. wide dot-matrix printer
f) rasterize and output the results of step e) to the printer

with line and baseline identification that allows the user to add some title information and build a suitable surround

ENVIMAP is designed to be as simple as possible. The user is required to answer a few basic questions asked by ENVIMAP, and then simply toggles "GO" to let ENVIMAP provide default parameters for the making of the contour map. The user can modify certain characteristics of the output plot. ENVIMAP'S menu system is both keyboard and mouse operable. HELP screens are integrated with the menu system so that HELP is displayed whenever the user requests it.

Options Available

- True simultaneous gradiometer upgrade
- Base station upgrade
- Display heater for low temperature operations
- External battery pouch

Specifications

Total Field Operating Range
20,000 to 100,000 nT (gammas)

Total Field Absolute Accuracy
+/- 1nT

Tuning
Fully solid state. Manual or automatic, keyboard selectable

Cycling (Reading) Rates
0.5, 1 or 2 seconds, up to 9999 seconds for base station applications, keyboard selectable

Sensitivity
0.1 nT at 2 second sampling rate

Gradiometer Option
Includes a second sensor, 20 inch (½m) staff extender and processor module

"WALKMAG" Mode
0.5 second for walking surveys, variable rates for hilly terrain

Digital Display
LCD "Super Twist", 240 x 64 dots graphics, 8 line x 40 characters alphanumerics

Display Heater
Thermostatically controlled, for cold weather operations

Keyboard Input
17 keys, dual function, membrane type

Notebook Function
32 characters, 5 user-defined MACRO's for quick entry

Standard Memory

Total Field Measurements:	28,000 readings
Gradiometer Measurements:	21,000 readings
Base Station Measurements:	151,000 readings

Expanded Memory

Total Field Measurements:	140,000 readings
Gradiometer Measurements:	109,000 readings
Base Station Measurements:	750,000 readings

Real-Time Clock
Records full date, hours, minutes and seconds with 1 second resolution, +/- 1 second stability over 12 hours

Digital Data Output
RS-232C interface, 600 to 57,600 Baud, 7 or 8 data bits, 1 start, 1 stop bit, no parity format. Selectable carriage return delay (0-999 ms) to accommodate slow peripherals. Handshaking is done by X-on/X-off

Analog Output
0 - 999 mV full scale output voltage with keyboard selectable range of 1, 10, 100, 1,000 or 10,000 nT full scale

Power Supply
Rechargeable "Camcorder" type, 2.3 Ah, Lead-acid battery.

12 Volts at 0.65 Amp for magnetometer, 1.2 Amp for gradiometer,

External 12 Volt input for base station operations

Optional external battery pouch for cold weather operations

Battery Charger
110 Volt - 230 Volt, 50/60 Hz

Operating Temperature Range
Standard 0° to 60°C
Optional -40°C to 60°C

Dimensions
Console - 10 x 6 x 2.25 inches (250 mm x 152 mm x 55 mm)
T.F. sensor - 2.75 inches dia. x 7 inches (70 mm x 175 mm)
Grad. sensor and staff extender - 2.75 inches dia. x 26.5 inches (70 mm x 675 mm)
T.F. staff - 1 inch dia. x 76 inches (25 mm x 2 m)

Weight
Console - 5.4 lbs (2.45 kg) with rechargeable battery
T. F. sensor - 2.2 lbs (1.15 kg)
Grad. sensor - 2.5 lbs (1.15 kg)
Staff - 1.75 lbs (0.8 kg)

SCINTREX

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In the USA:
Scintrex Inc.
85 River Rock Drive
Unit 202
Buffalo, New York 14207
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Addendum Report to report Titled:
ASSESSMENT REPORT, EBY NORTH GROUP, (Nastek Explorations Ltd)
and dated August 10

A. INTRODUCTION

July-August 1998 all magnetic profile data collected during 1994 and 1998 was processed generating contoured data from data previously processed as profile data. Power line noise was manually removed from the profile data sets. 160 nanoTeslas were added to all the 1996 data to generate a common background. The best profiles of the 1994 and 1996 data sets were merged manually using the smoothest of the data sets and the duplicate data was discarded. Each data of each line was line was then merged into a large XYZ file using word perfect and exported as a single dos file for contouring using the Scintrex Envimap program and plotted as three 1:5000 scale contour maps. The location of MaxMin anomalies were plotted as open circles on these maps. The data was also plotted at 1:10000 scale contour map.

The contour map shows the coarse magnetic trends however the fine detail of the profile data is lost.

B. OBSERVATIONS

1. 3550E-375S TO 4050E-375S STRUCTURE (STRONG MAGNETIC GRADIENT). A strong magnetic trend north east from 3350E-725S terminates abruptly at 4050E-375S along a prominent south-east trending depression that hosts strong Fe-Carbonate alteration. The magnetic gradients are intense in this feature and the anomalies are reported as steep sided magnetic lows as the magnetic sensors were saturated and unable to record accurate readings in these strong magnetic gradients. These responses appear as bull-eyes and are treated as strong magnetic highs in the interpretation of this report. This linear feature is similar to that expected from a magnetic diabase dike, however the abrupt termination indicates it may be a volcanic feeder dike.

North of 4050E-375S the magnetic and EM trends are west to north west. The prominent altered south-east trending structure that terminates this magnetic trend is an important exploration target. The prominent altered south-east trending structure that terminates this magnetic trend is an important exploration target.

This trend may also reflect the south limb of a fold with the north limb trending northwest to west from 4050E-375S.

3. 3800E-000N TO 4200-300S STRUCTURE WITH MAG LOW SIGNATURE.
This trend is marked by a prominent depression hosting Fe-Carbonate alteration zone. This trend terminates the strong magnetic structure described above in subsection "1". This is also marked by a favourable magnetic low signature. It is unknown if this structure terminates against a 080° structure at 075N or extends to 3265E-360N. This structure may project to the south claim line near 4400E.

3. 4050E-325S TO 4100-350S ALTERATION & MAG LOW
Alteration with a distinct mag low signature may be a significant local structure.

4. 3700E-840S TO 4000E-815S MaxMim ANOMALY
This MaxMin anomaly is within low magnetic relief indicating it is caused by sulphide mineralization or graphite.

5. 2650E-3240S TO 3600E-185N MAGNETIC & TOPOGRAPHIC LINEAMENT
This topographic lineament is marked with a weak magnetic low signature and appears to truncate mag high trends. It may project to the north-east as a weak cross-cutting magnetic high feature possibly a weakly magnetic dike.

6. 1800E-262N TO 2300E-310N EM TREND IN NARROW MAGNETIC LOW
A maxMin anomaly appears to be in a narrow magnetic low within and along strong magnetic high areas. This nay mark a

favourable alteration structure with sulphides and/or graphite.

7. 4000E-400N TO 4650E-247S TOPOGRAPHIC LINEAMENT WITH BREAK IN MAGNETIC TREND

This appears to be a topographic lineament that marks a break in magnetic trends. A major MaxMin anomaly to the west appears to drag into and follow this lineament. To the Northeast of this lineament stratigraphic trends may drag in the opposite sense indicating the north side may be fault shifted to the south-east. A 250 metre wide mag low north east of this structure and south of the power line appears to be the source of Au float grading to 1.37 g/tonne. This mag low is a high priority gold target located under swampy ground and sandy to clay soils.

Enclosures:
Eby North Grid: Total Magnetic Field Strength:
Lines 1600E-3350E: Scale 1:5000

Eby North Grid: Total Magnetic Field Strength:
Lines 3200E-4200E: Scale 1:5000

Eby North Grid: Total Magnetic Field Strength:
Lines 3700E-4735E: Scale 1:5000

Eby North Grid: Total Magnetic Field Strength:
Lines 1600E-4735E: Scale 1:10000

Scintrex Envimag Specifications

Eby North Grid

CERTIFICATE

I, Douglas Robinson, of 24 Victoria Avenue Swastika, Ontario, hereby certify that:

1. I am a registered professional Engineer of Ontario engaged in my profession for approximately 20 years.

2. I am a graduate of Queen's University in Kingston Ontario with an Honours Bachelor of Science degree in Geological Engineering and
Northern College, School of Mines in Haileybury, Ontario with a Mining Technician Certificate.

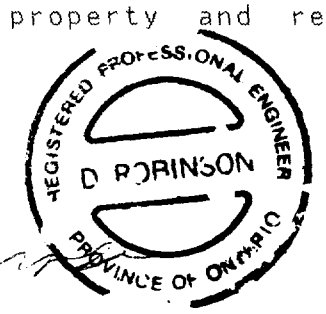
3. I personally supervised the EM and magnetometer surveys claimed in this report.

4. I personally conducted all mapping and sampling claimed in this report.

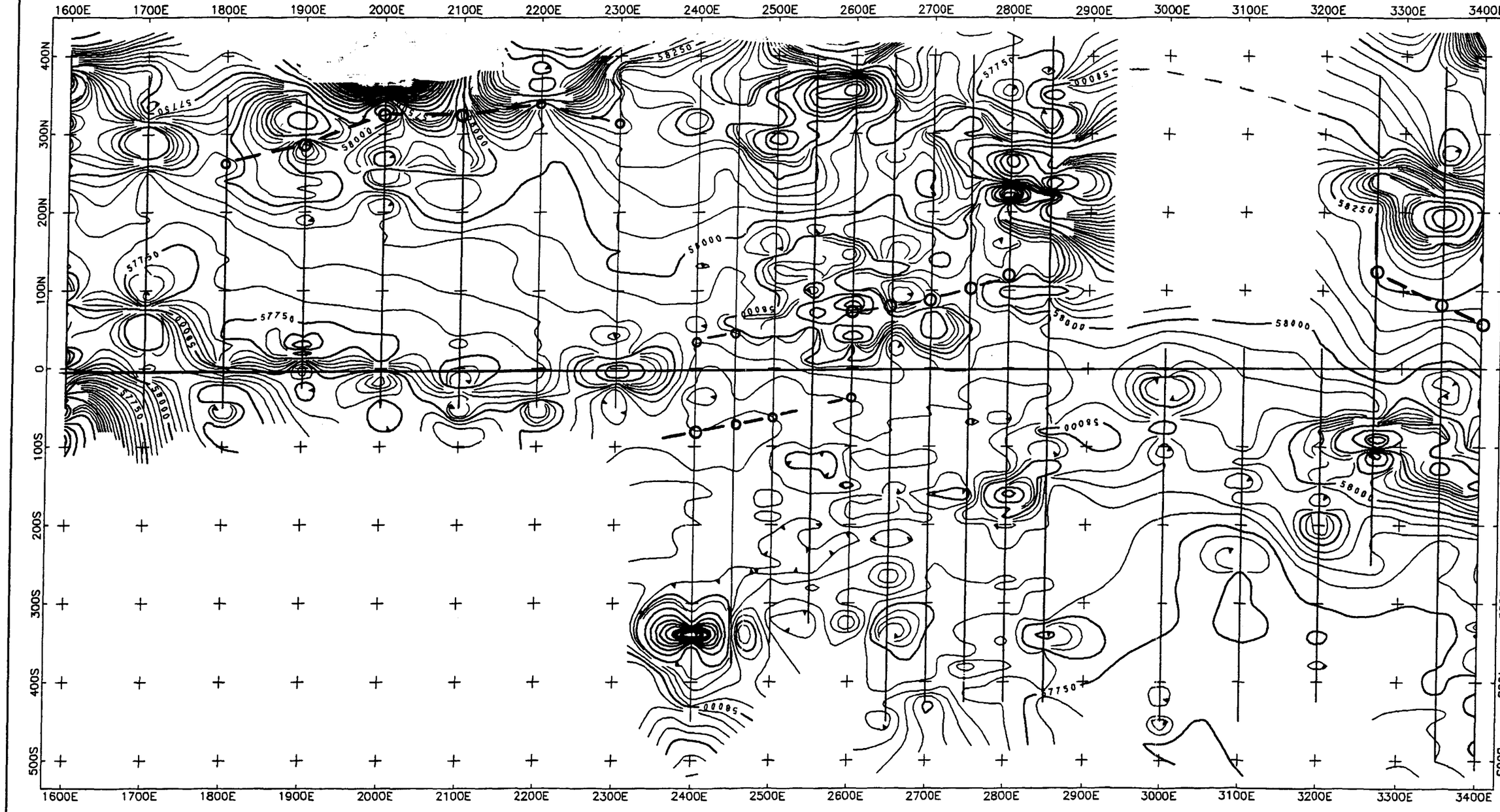
5. I authored this report.

6. My knowledge of exploration procedures was acquired through 20 years employment in the mining industry.

7. My knowledge of the properties was acquired by personally mapping the property and reviewing MNDM assessment reports.



Douglas Robinson, P. Eng
August 11, 1998.



50 0 50 100
(meters)

Contour Interval: 50 nT

EBY NORTH GRID: Eby (Otto) Tp.

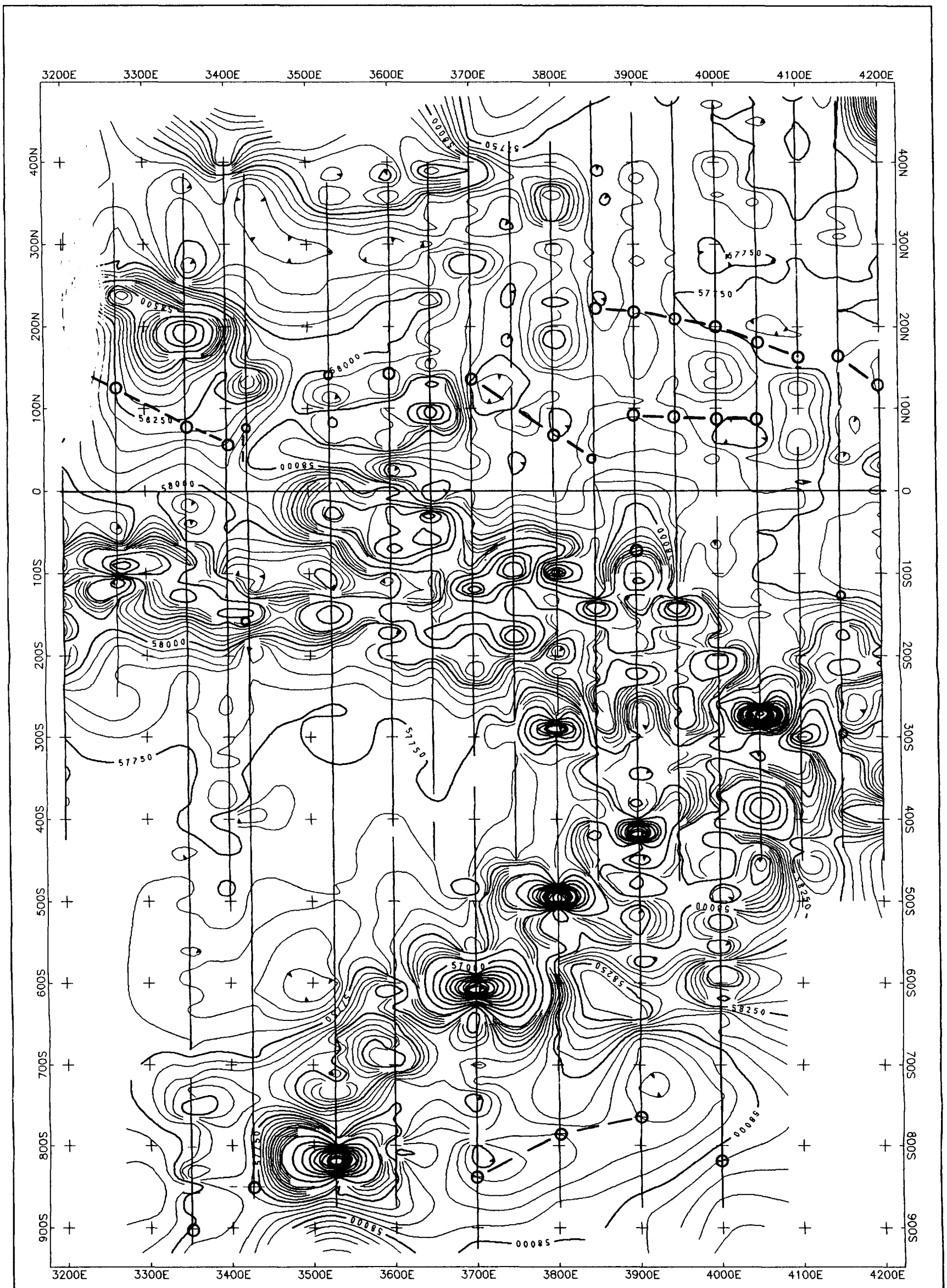
Total Magetic Field Strength

NanoTeslas

SCINTREX ENVIMAP plot by Douglas Robinson, Doug Robinson Consulting

N

Declination: 13 Degrees West



50 0 50 100
(meters)

Contour Interval: 50 nT

EBY NORTH GRID: Eby (Otto) Tp.

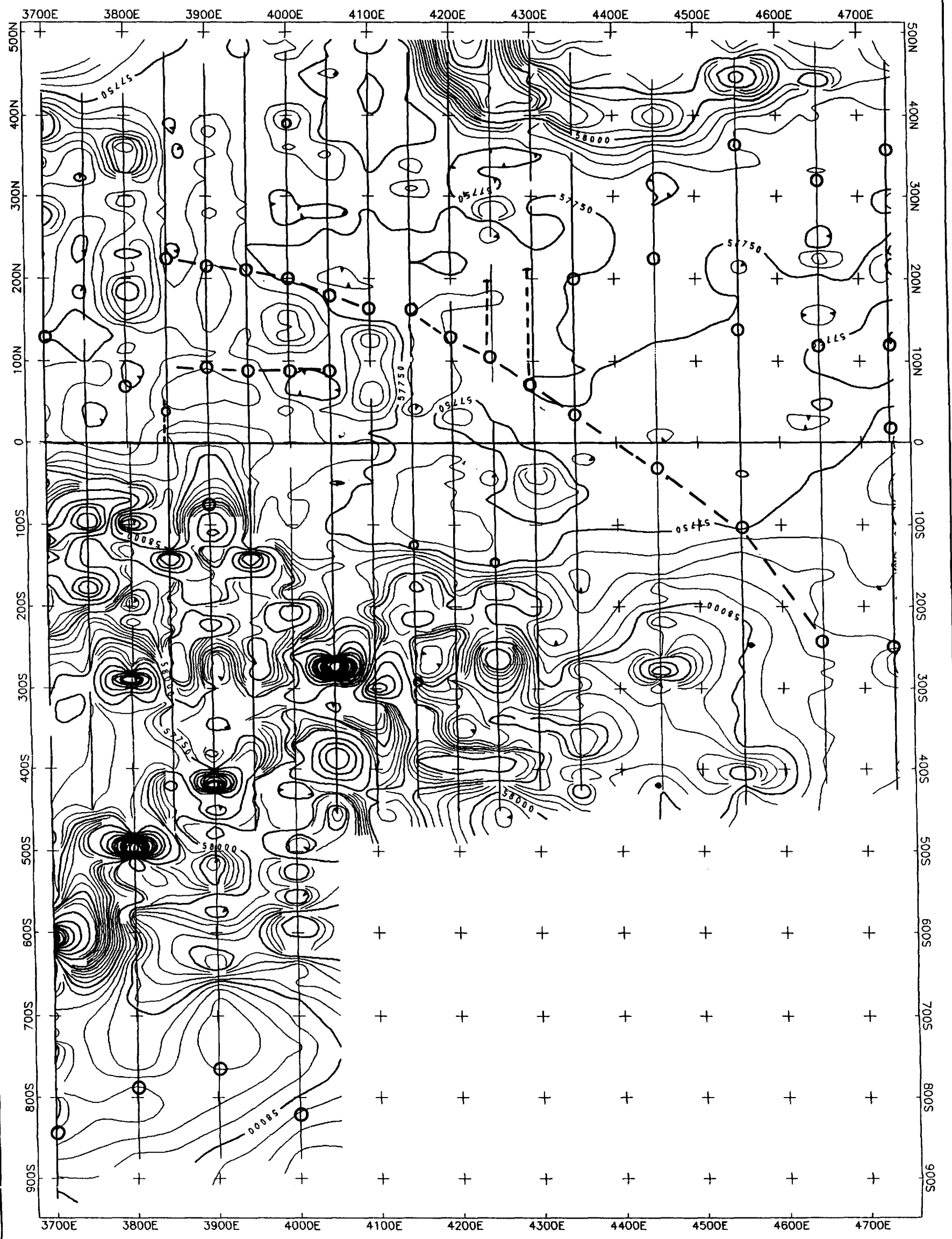
Total Magetic Field Strength

NanoTeslas

SCINTREX ENVIMAP plot by Douglas Robinson, Doug Robinson Consulting

N

Declination: 13 Degrees West



Contour Interval: 50 nT

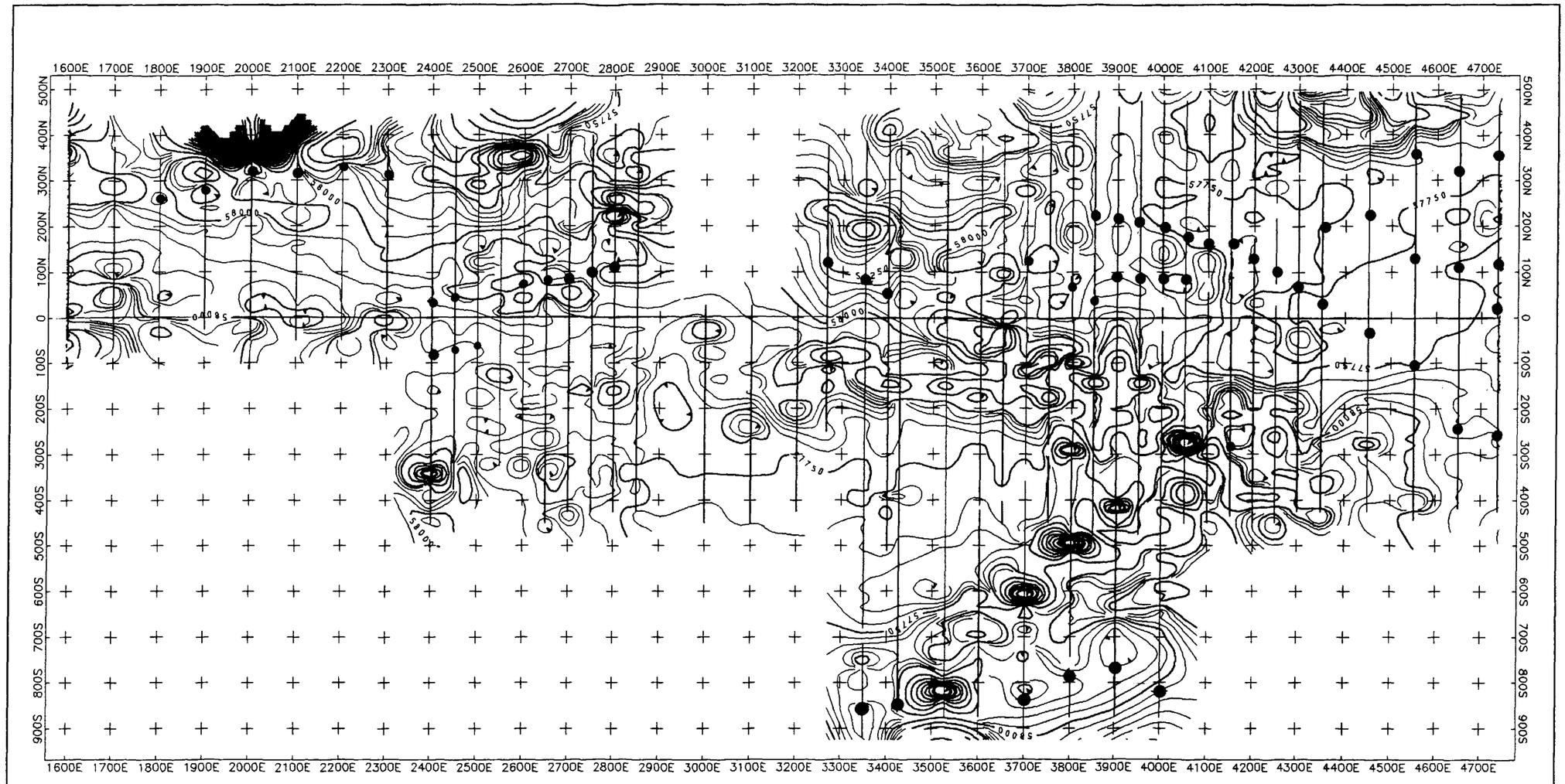
EBY NORTH GRID: Eby (Otto) Tp.

Total Magetic Field Strength

NanoTeslas

SCINTREX ENVIMAP plot by Douglas Robinson, Doug Robinson Consulting

Declination: 13 Degrees West



100 0 100 200
(meters)

Contour Interval: 50 nT

EBY NORTH GRID: Eby (Otto) Tp.

Total Magetic Field Strength

NanoTeslas

SCINTREX ENVIMAP plot by Douglas Robinson, Doug Robinson Consulting

N

Declination: 13 Degrees West

SCINTREX

ENVI-MAG Environmental Magnetometer/Gradiometer

Locating Buried Drums and Tanks?

The NEW ENVI-MAG is the solution to this environmental problem. ENVI-MAG is an inexpensive, lightweight, portable "WALKMAG" which enables you to survey large areas quickly and accurately.

ENVI-MAG is a portable, proton precession magnetometer and/or gradiometer, for geotechnical, archaeological and environmental applications where high production, fast count rate and high sensitivity are required. It may also be used for other applications, such as mineral exploration, and may be configured as a total-field magnetometer, a vertical gradiometer or as a base station.

The ENVI-MAG

- easily detects buried drums to depths of 10 feet or more
- more sensitive to the steel of a buried drum than EM or radar
- much less expensive than EM or radar
- survey productivity much higher than with EM or radar

Main features include:

- select sampling rates as fast as 2 times per second
- "WALKMAG" mode for rapid acquisition of data
- large internal memory, expandable to 200,000 readings
- easy to read, large LCD screen displays data both numerically and graphically
- ENVIMAP software for processing and mapping data

ENVI-MAG comprises several basic modules; a lightweight console with a large screen alphanumeric display and high capacity memory, a staff mounted sensor and sensor cable, rechargeable battery and battery charger, RS-232 cable and ENVIMAP processing and mapping software.

For gradiometry applications an upgrade kit is available, comprising an additional processor module for installation in the console, and a second sensor with a staff extender.



ENVI-MAG Proton Magnetometer in operation

For base station applications a Base Station Accessory Kit is available so that the sensor and staff may be converted into a base station sensor.

Features and Benefits

"WALKMAG" Magnetometer/Gradiometer

The "WALKMAG" mode of operation (sometimes known as "Walking Mag") is user-selectable from the keyboard. In this mode, data is acquired and recorded at the rate of 2 readings per second as the operator walks at a steady pace along a line. At desired intervals, the operator "triggers" an event marker by a single key stroke, assigning coordinates to the recorded data.

True Simultaneous Gradiometer

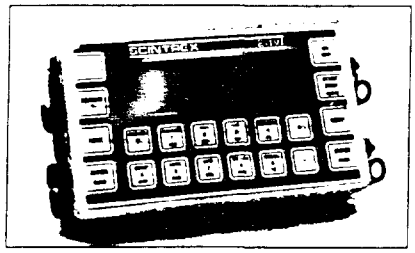
An optional upgrade kit is available to configure ENVI-MAG as a gradiometer to make true, simultaneous gradiometer measurements. Gradiometry is useful for geotechnical and archaeological surveys where small near surface magnetic targets are the object of the survey.

Selectable Sampling Rates

0.5 second, 1 second and 2 second reading rates user selectable from the keyboard.

Large-Key Keypad

The large-key keypad allows easy access for gloved-hands in cold-weather operations. Each key has a multi-purpose function.



Front panel of ENVI-MAG showing a graphic profile of data and large-key keypad

Large Capacity Memory

ENVI-MAG with standard memory stores up to 28,000 readings of total field measurements, 21,000 readings of gradiometry data or 151,000 readings as a base station. An expanded memory option is available which increases this standard capacity by a factor of 5.

Easy Review of Data

For quality of data and for a rapid analysis of the magnetic characteristics of the survey line, several modes of review are possible. These include the measurements at the last three stations, the ability to scroll through any or all previous readings in memory, and a graphic display of the previous data as profiles, line by line. This feature is very useful for environmental and archaeological surveys.

Highly Productive

The "WALKMAG" mode of operation acquires data rapidly at close station intervals, ensuring high-definition results. This increases survey productivity by a factor of 5 when compared to a conventional magnetometer survey.

"Datacheck" Quality Control of Data

"Datacheck" provides a feature wherein at the end of each survey line, data may be reviewed as a profile on ENVI-MAG's screen. Datacheck confirms that the

instrument is functioning correctly and allows the user to note the magnetic relief (anomaly) on the line.

Large Screen Display

"Super-Twist" 64 x 240 dot (8 lines x 40 characters), LCD graphic screen provides good visibility in all light conditions. A display heater is optionally available for low-temperature operations below 0°C.



Close-up of the ENVI-MAG screen showing data presented after each reading

Interactive Menus

The set-up of ENVI-MAG is menu-driven, and minimizes the operator's learning time, and on-going tasks.



Close-up of display of ENVI-MAG showing interactive set-up menu

Rechargeable Battery and Battery Charger

An "off-the-shelf" lead-acid battery and charger are provided as standard. The low-cost "Camcorder" type battery is available from electronic parts distributors everywhere.

HELP-Line Available

Purchasers of ENVI-MAG are provided with a HELP-Line telephone number to call in the event assistance is needed with an application or instrumentation problem.

ENVIMAP Processing and Mapping Software

Supplied with ENVI-MAG, and custom designed for this purpose, is easy-to-use, very user-friendly, menu driven data processing and mapping software called ENVIMAP. This unique software appears to the user to be a single program, but is in fact a sequence of separate programs, each performing a specific task. Under the menu system, there are separate programs to do the following:

a) read the ENVI-MAG data and reformat it into a standard compatible with the ENVIMAP software
b) grid the data into a standard grid format
c) create a vector file of posted values
d) contour the gridded data
e) autoscale the combined results of the posting/surround step and the contouring step to fit on a standard 8.5 ins. wide dot-matrix printer
f) rasterize and output the results of step e) to the printer

ENVIMAP is designed to be as simple as possible. The user is required to answer a few basic questions asked by ENVIMAP, and then simply toggles "GO" to let ENVIMAP provide default parameters for the making of the contour map. The user can modify certain characteristics of the output plot. ENVIMAP'S menu system is both keyboard and mouse operable. HELP screens are integrated with the menu system so that HELP is displayed whenever the user requests it.

Options Available

- True simultaneous gradiometer upgrade
- Base station upgrade
- Display heater for low temperature operations
- External battery pouch

Specifications

Total Field Operating Range
20,000 to 100,000 nT (gammas)

Total Field Absolute Accuracy
+/- 1nT

Tuning
Fully solid state. Manual or automatic, keyboard selectable

Cycling (Reading) Rates
0.5, 1 or 2 seconds, up to 9999 seconds for base station applications, keyboard selectable

Sensitivity
0.1 nT at 2 second sampling rate

Gradiometer Option
Includes a second sensor, 20 inch (½m) staff extender and processor module

"WALKMAG" Mode
0.5 second for walking surveys, variable rates for hilly terrain

Digital Display
LCD "Super Twist", 240 x 64 dots graphics, 8 line x 40 characters alphanumerics

Display Heater
Thermostatically controlled, for cold weather operations

Keyboard Input
17 keys, dual function, membrane type

Notebook Function
32 characters, 5 user-defined MACRO's for quick entry

Standard Memory

Total Field Measurements:	28,000 readings
Gradiometer Measurements:	21,000 readings
Base Station Measurements:	151,000 readings

Expanded Memory

Total Field Measurements:	140,000 readings
Gradiometer Measurements:	109,000 readings
Base Station Measurements:	750,000 readings

Real-Time Clock
Records full date, hours, minutes and seconds with 1 second resolution, +/- 1 second stability over 12 hours

Digital Data Output
RS-232C interface, 600 to 57,600 Baud, 7 or 8 data bits, 1 start, 1 stop bit, no parity format. Selectable carriage return delay (0-999 ms) to accommodate slow peripherals. Handshaking is done by X-on/X-off

Analog Output
0 - 999 mV full scale output voltage with keyboard selectable range of 1, 10, 100, 1,000 or 10,000 nT full scale

Power Supply
Rechargeable "Camcorder" type, 2.3 Ah, Lead-acid battery.

12 Volts at 0.65 Amp for magnetometer, 1.2 Amp for gradiometer,

External 12 Volt input for base station operations

Optional external battery pouch for cold weather operations

Battery Charger
110 Volt - 230 Volt, 50/60 Hz

Operating Temperature Range
Standard 0° to 60°C
Optional -40°C to 60°C

Dimensions
Console - 10 x 6 x 2.25 inches (250 mm x 152 mm x 55 mm)
T.F. sensor - 2.75 inches dia. x 7 inches (70 mm x 175 mm)
Grad. sensor and staff extender - 2.75 inches dia. x 26.5 inches (70 mm x 675 mm)
T.F. staff - 1 inch dia. x 76 inches (25 mm x 2 m)

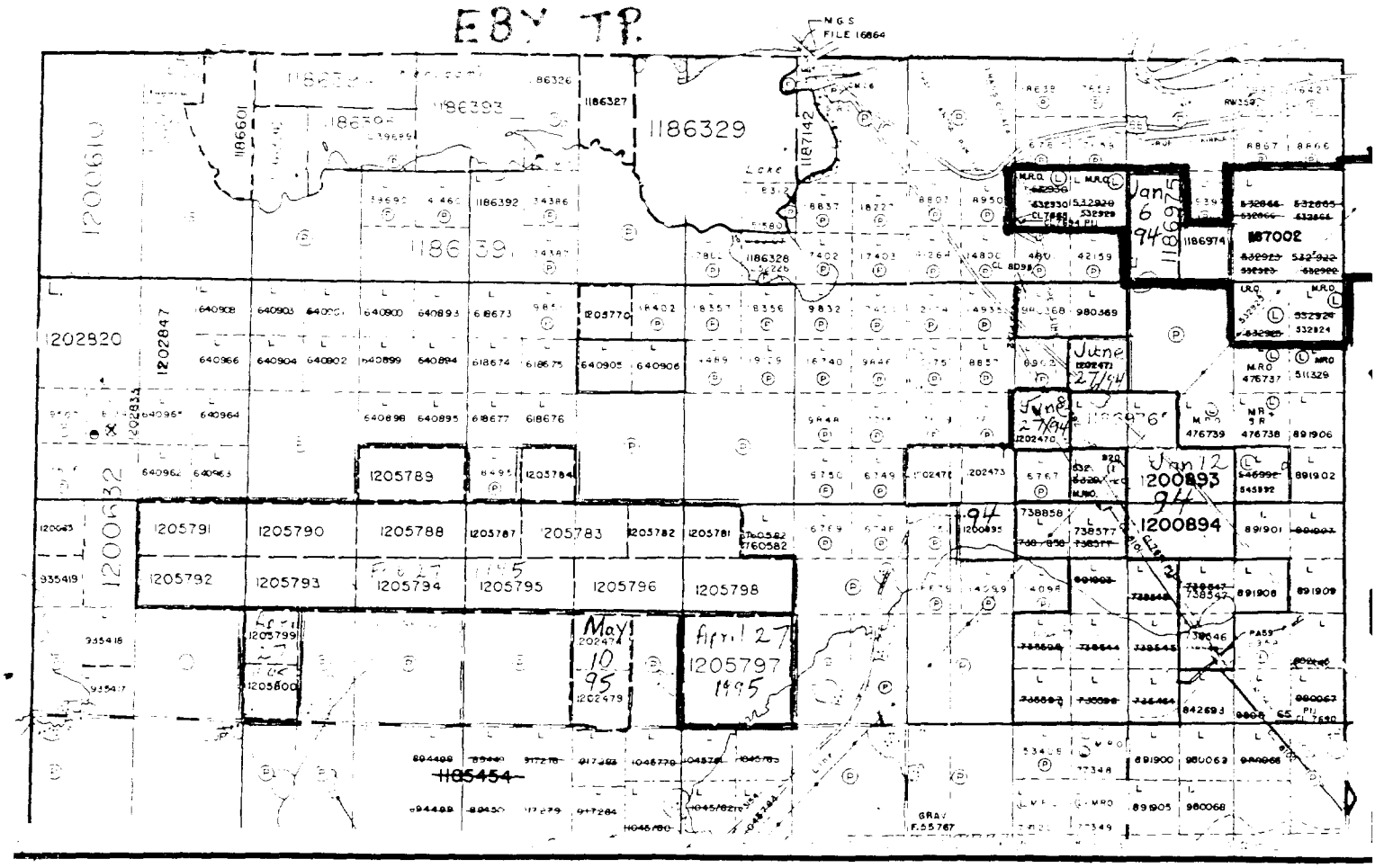
Weight
Console - 5.4 lbs (2.45 kg) with rechargeable battery
T. F. sensor - 2.2 lbs (1.15 kg)
Grad. sensor - 2.5 lbs (1.15 kg)
Staff - 1.75 lbs (0.8 kg)

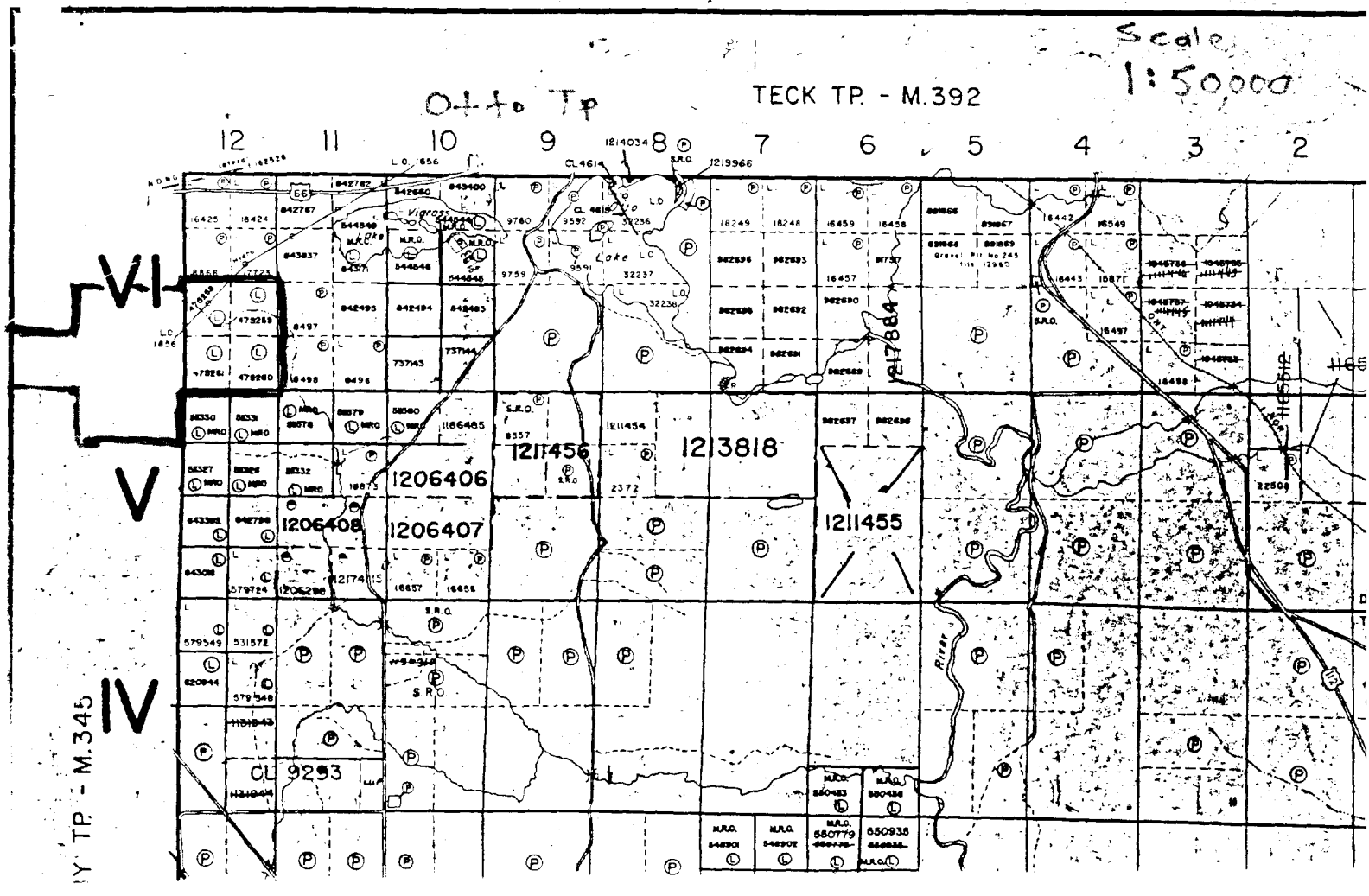
SCINTREX

Head Office
222 Snidercroft Road
Concord, Ontario, Canada L4K 1B5
Telephone: (905) 669-2280
Fax: (905) 669-6403 or 669-5132
Telex: 06-964570

In the USA:
Scintrex Inc.
85 River Rock Drive
Unit 202
Buffalo, New York 14207
Telephone: (716) 298-1219
Fax: (716) 298-1317

Grenfell Twp. M.351





Ontario Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use)
W9880.00506
Assessment Files Research Imaging

42A01SE2006 2.18754 OTTO 900

ibsection 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, sesment work and correspond with the mining land holder. Questions about this thern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury.

Instructions: - For work performed on Crown Lands before **recording** a claim, use form 0240.
- Please type or print in ink.

2.18754

1. Recorded holder(s) (Attach a list if necessary)

Name	Client Number
Douglas Robinson	3021666
Address: Box 218	Telephone Number: 705-642-9153
SWASTIKA, ON POK 1TO	Fax Number: 705-642-9153 (Phone First)
Name: James Reed	Client Number
Address: RR #2 Site 3 Box 2	Telephone Number: 705-642-3573
SWASTIKA, ON POK 1TO	Fax Number

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

Geotechnical: prospecting, surveys, assays and work under section 18 (regs) ← X

Physical: drilling stripping, trenching and associated assays

Rehabilitation

Work Type: Geotechnical, lines. E.M. topographical measurements, Magnetic profiles, magnetic contours.	Office Use
	Commodity
	Total $ Value of Work Claimed: 31,144.
Dates Work Performed From: 12 (Day) 8 (Month) 96 (Year) To: 11 (Day) 8 (Month) 98 (Year)	NTS Reference
Global Positioning System Data (if available): 5326500N 562500E	Township/Area: Eby Otto
	M or G-Plan Number: M345-M379
	Mining Division: KLK
	Resident Geologist District

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MINING DIVISION

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required;
- provide proper notice to surface rights holders before starting work;
- complete and attach a Statement of Costs, form 0212;
- provide a map showing contiguous mining lands that are linked for assigning work;
- include two copies of your technical report.

RECEIVED AUG 12 1998
AUG 13 1998 10:30 am
GEOSCIENCE ASSESSMENT OFFICE 10:40

3. Person or companies who prepared the technical report (Attach a list if necessary)

Name	Telephone Number
Nastek Explorations Ltd.	416-364-7818
Address: 347-Bay St. Suite 601, Toronto, On. M5H 2R7	Fax Number
Name: James E. Tilsley + Associates Ltd.	Telephone Number: 905-727-6822
Address: 5 Steeplechase Ave, Aurora, On. L4G 6W5	Fax Number: 905-841-3029
Name: Douglas Robinson	Telephone Number: 705-642-9153
Address: Box 218, Swastika, On. POK 1TO	Fax Number

4. Certification by Recorded Holder or Agent

I, Douglas Robinson (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent: Douglas Robinson		Date: Aug 11, 1998
Agent's Address: Box 218, SWASTIKA, On. POK 1TO	Telephone Number: 705-642-9153	Fax Number

0241 (03/97)

Deemed Nov. 17/98

work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

W9880.00501C

Number. Or if e on other eligible show in this cation number the claim ma	Number of Claim Units. For other mining land; list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date
TB 7827	16 ha	$28,825	N/A	$24,000	$2,825
1234567	12	0	$24,000	0	0
1234568	2	$ 8,892	$ 4,000	0	$4,892
32930 8000813	1	3000	0 DRR	0 ~~3000~~	3000 DRR
32929	1	3000	0 DRR	0 ~~3000~~	3000 DRR
186975	2	1000	2400 ~~800~~ DRR	0	~~400~~ 0 DRR DRR
86974	1	3600	1200 ~~544~~ DRR	0	~~760~~ 2400 DRR
187002	4	6544	4608 ~~17800~~ DRR	DRR 0 DRR	~~6544~~ 1936 0 DRR
32925 8000814	1	3000	0	0 ~~3000~~	3000 DRR
32924	1	3000	0 DRR	208 DRR ~~3006~~	~~2792~~ 3000 0 DRR
175258	1	1000	0	DRR ~~1000~~ 0	1006 DRR
4752 59	1	3000	0	DRR ~~3000~~ 0	3006 DRR
475260	1	3006	0	DRR 1400 ~~3000~~	1606 DRR
475261	1	1000	0	DRR ~~1000~~	1000 DRR
				DRR 1400	
			DRR	DRR	
			8208 DRR	~~8208~~	DRR.
Column Totals		31144	31144 8208 DRR.	20000	22936

Douglas Robinson (Print Full Name), do hereby certify that the above work credits are eligible under section 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing	Date
Douglas Robinson	August 11, 1998

Instruction for cutting back credits that are not approved.

If some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- ☐ 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- ☐ 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- ☒ 3. Credits are to be cut back equally over all claims listed in this declaration; or
- ☐ 4. Credits are to be cut back as prioritized on the attached ~~appendix or as follows~~ (describe).

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3:45
CA.

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SEP - 4 1998
10:00
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If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

Office Use Only

Received Stamp

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MINING DIVISION
AUG 12 1998
10:30 am
A1

Deemed Approved Date	Date Notification Sent
Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)	

(03/97)

Ontario Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use)
W9880.00506

Personal information collected on this form is obtained under the authority of subsection 6 (1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, this information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to a Provincial Mining Recorder, Ministry of Northern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

James E. Tilsley Invoicing See Attachment. **2.18754**

Work Type	Units of work Depending on the type of work, list the number of hours/day worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
Lines	22.10 km	280	6187
Rechain Lines after Surveys	km		840
MagMin 2Frequency + Topographic Measurement	17.33	325.00	5631
Mag Survey Profiles	18.46	250.00	4614
Reporting & Supervision	7.8 days	650.00	5070
Associated Costs (e.g. supplies, mobilization and demobilization).			
Liability Insurance			550
Drafting / Printing			442
Telephone			137
Report Costs			123
Field Supplies			89
Transportation Costs Travel			337
Courier			35
Food and Lodging Costs Meals			75
24309 Hotel		Sub Total / 24309	179
1701.63 GST		x 0.07	1701.63
		Total Value of Assessment Work	26010.

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AUG 12 1998
10:30 am

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OFFICE
10:40

Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below.

TOTAL VALUE OF ASSESSMENT WORK x 0.50 = Total $ value of worked claimed.

Note:

- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Douglas Robinson

Certification verifying costs:

I, Douglas Robinson (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as Douglas Robinson (recorded holder, agent, or state company position with signing authority) I am authorized to make this certification.

Signature	Date
Douglas Robinson	Aug 11/98

0212 (03/97)

Ontario Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use): W9880.00506

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2.18754

Work Type	Units of work Depending on the type of work, list the number of hours/day worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
Supplemental assessment Report dated Aug 10/98	7.5 day	400/day	3317
GST			217
Report dated Aug 11/98 Mag Contour map generated from line profile data	4. day	400/day	1600
Associated Costs (e.g. supplies, mobilization and demobilization).			
other page			26010
Transportation Costs			
Food and Lodging Costs			
		Total Value of Assessment Work	31144

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MINING DIVISION
AUG 12 1998
10:30 am

Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK x 0.50 = Total $ value of worked claimed.

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Note:
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Certification verifying costs:

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Signature	Date
Douglas Robinson	Aug 11/98

DRR.

0212 (03/97)

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

Ontario

Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (888) 415-9846
Fax: (877) 670-1555

Visit our website at:
www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

January 13, 1999

DOUGLAS RAYMOND ROBINSON
24 VICTORIA AVENUE
BOX 218
SWASTIKA, ONTARIO
P0K-1T0

Dear Sir or Madam:

Submission Number: 2.18754

		Status
Subject: Transaction Number(s):	W9880.00506	Approval After Notice

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Bruce Gates by e-mail at bruce.gates@ndm.gov.on.ca or by telephone at (705) 670-5856.

Yours sincerely,

ORIGINAL SIGNED BY
Blair Kite
Supervisor, Geoscience Assessment Office
Mining Lands Section

Correspondence ID: 13283

Copy for: Assessment Library

Work Report Assessment Results

Submission Number: 2.18754

Date Correspondence Sent: January 13, 1999 **Assessor:** Bruce Gates

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9880.00506	8000813	EBY, OTTO	Approval After Notice	December 27, 1998

Section:
14 Geophysical EM
14 Geophysical MAG

The 45 days outlined in the Notice dated November 12, 1998 have passed.

Based on the correspondence from Doug Robinson, explaining the extenuating circumstances associated with this submission, we have allowed an additional 1/3 to the costs of the EM survey for the topographic measurements and 10% as supervision. This represents an additional $2,515.

MAG/EM/LC = $13,322
Supervision = $1,332
Reports by Robinson = $5,134
Rechaining = $840

Total $ 20,628

Assessment work credit has been approved as outlined on the attached Distribution of Assessment Work Credit sheet.

Correspondence to:

Resident Geologist
Kirkland Lake, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):

DOUGLAS RAYMOND ROBINSON
SWASTIKA, ONTARIO

JAMES DAVID REED
SWASTIKA, Ontario

Distribution of Assessment Work Credit

The following credit distribution reflects the value of assessment work performed on the mining land(s).

Date: January 13, 1999

Submission Number: 2.18754

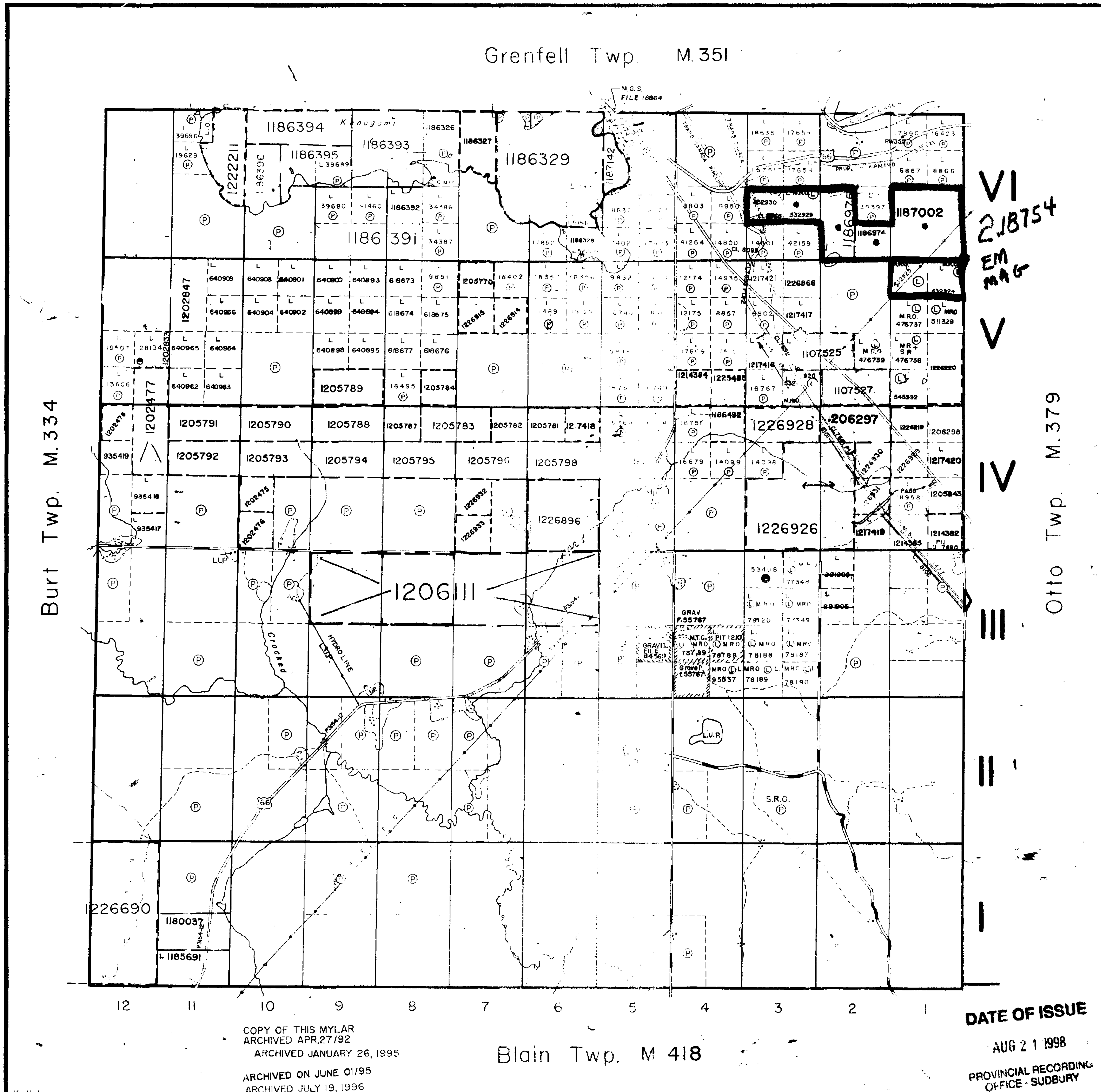
Transaction Number: W9880.00506

Claim Number	Value Of Work Performed
1186974	2,385.00
1186975	664.00
1187002	4,333.00
475258	663.00
475259	1,987.00
475260	1,987.00
475261	663.00
8000813	3,973.00
8000814	3,973.00
Total: $	20,628.00

Correspondence ID: 13283

TRIM LINE

M.342



COPY OF THIS MYLAR ARCHIVED APR.27/92
ARCHIVED JANUARY 26, 1995
ARCHIVED ON JUNE 01/95
ARCHIVED JULY 19, 1996

K. Kalamov

DATE OF ISSUE
AUG 21 1998
PROVINCIAL RECORDING OFFICE - SUDBURY

THE TOWNSHIP OF EBY

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

PATENTED LAND	Ⓟ
CROWN LAND SALE	C.S.
LEASES	Ⓛ
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	● OR S.R.O.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	⚒
CANCELLED	C.

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

AREAS WITHDRAWN FROM STAKING

Surface Rights Withdrawn under Sec. 36. The Mining Act R.S.O. 1980, ORDER NO. W-01/91/ONT (Trans Canada Pipeline Right of Way and Buffer Zone particularly 40.25 metres or 132 ft. on either side of centre line of right of way)

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

PLAN NO.- M-345

MINISTRY OF NORTHERN DEVELOPMENT AND MINES

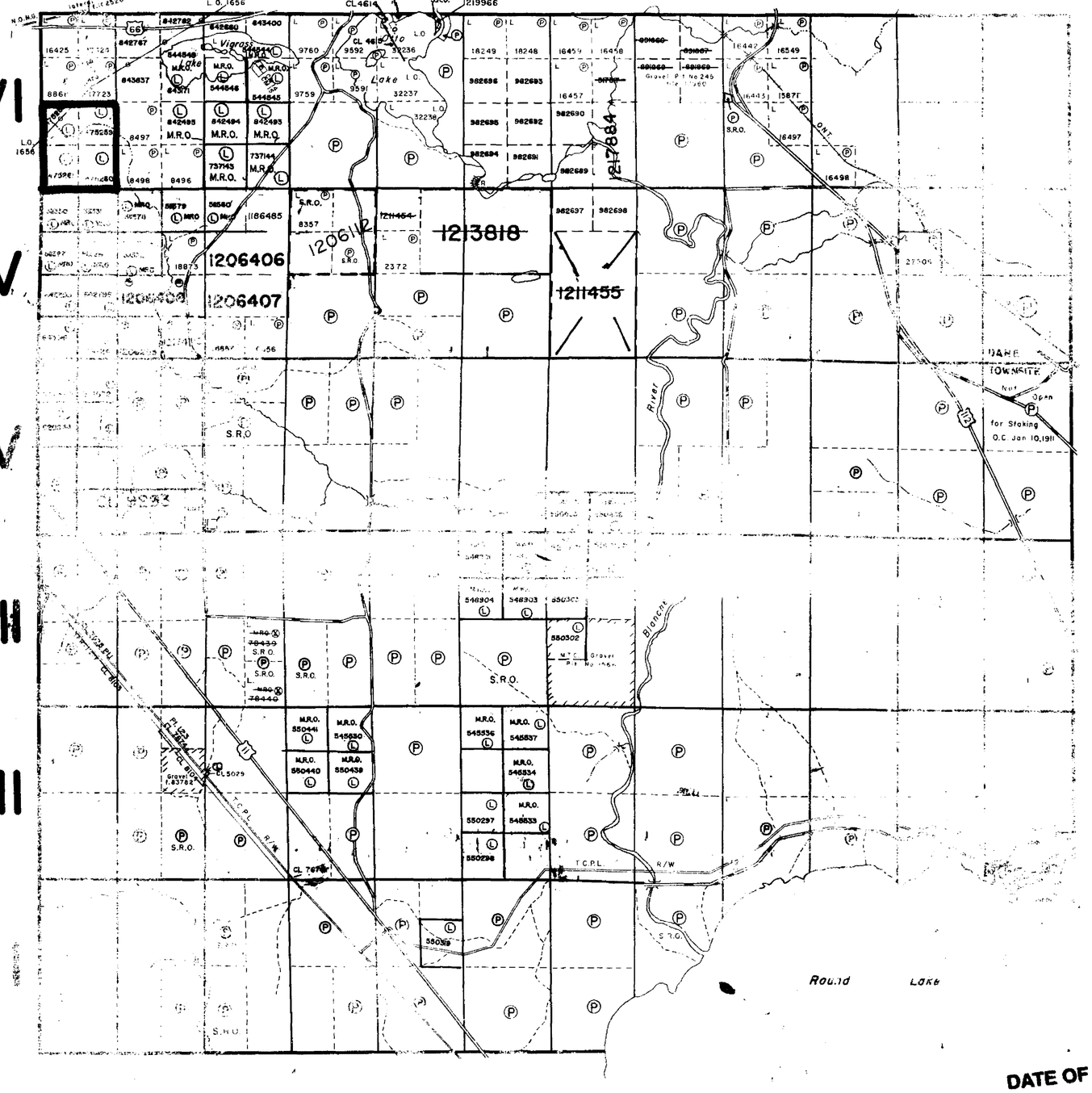
EBY TWP

Rec'd Jan. 25/89

42A01SE2006 2.18754 OTTO 200

TRIM LINE

2.18754
MAG
EM



THE TOWNSHIP OF

OTTO

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

PATENTED LAND
CROWN LAND SALE
LEASES
LOCATED LAND
LICENCE OF OCCUPATION
MINING RIGHTS ONLY
SURFACE RIGHTS ONLY
ROADS
IMPROVED ROADS
KING'S HIGHWAYS
RAILWAYS
POWER LINES
MARSH OR MUSKEG
MINES
CANCELLED
PATENTED S.R.O.

NOTES

100' surface rights reservation along shorelines of all lakes and rivers.

SURFACE AND MINING RIGHTS WITHDRAWN FROM STAKING SEC. 43(3)(c), W.9/86, JAN. 24, 1986
LAND TO BE OPENED W9/86 SEC. 44, 1990.

* APPLICATION UNDER THE PUBLIC LANDS ACT SEC. 28(1)
THE MINING ACT

FOR DISPOSITION OF CROWN LAND.
Mining Rights Withdrawn under Sec. 35,
The Mining Act R.S.O. 1980, ORDER NO. W-01/91/ONTO
Trans Canada Pipeline [illegible] and Buffer
Zone (approximately 40.25 metres or 132 ft. on
either side of centre line of right of way)

NOTICE OF FORESTRY ACTIVITY

THIS TOWNSHIP / AREA FALLS WITHIN THE TIMISKAMING MANAGEMENT UNIT

AND MAY BE SUBJECT TO FORESTRY OPERATIONS. THE MNR UNIT FORESTER FOR THIS AREA CAN BE CONTACTED AT: P.O. BOX 129
SWASTIKA, ONT.
P0K 1T0.
705-642-3222

PLAN NO. M-379

MINISTRY OF NORTHERN DEVELOPMENT AND MINES

DATE OF ISSUE
AUG 21 1998
PROVINCIAL RECORDING OFFICE - SUDBURY

CIRCULATED NOV.3/88
ARCHIVED ON JUNE 01/95

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42A01SE2006 2.18754 OTTO 210

TRIM LINE

RECEIVED
AUG 13 1990
GEOSCIENCE ASSESSMENT OFFICE

2.18754

GRENFELL Twp.
EBY Twp.
OTTO Twp.

Highway 66

KASNER

EBY NORTH-WEST GROUP

EBY-OTTO NORTH-EAST GROUP

QUEENSTON

GRANT LAKE

RIVARD

Highway 11

FAULT MAP-2239

Inferred Fault

Mapping Required

Possible Sourse of Float

Conc V
Conc IV

1186975 1187002 1186974 1206402 1206401 532930 532929 532925 532924 475258 475259 475261 475260

Sheltonic Shaft

NASTEK EXPLORATIONS LTD.
EBY AND OTTO TOWNSHIPS - LARDER LAKE MINING DIVISION, ONTARIO

REED-ROBINSON PROPERTY

COMPILATION MAP

JAMES E. TISLEY & ASSOCIATES LTD.

Lineament - Possible Fault / Alteration
Magnetic Low - Possible Alteration (+/- Au)
Magnetic High
Possible Sourse Area of Float
Target (Strip, Drill, Prime)
F497 Float PPB Au

8 Syenite
7 Chloritic Alteration
6 Diorite
5 Hornblendite
4 Anorthosite
3 Fe Tholeiite
2 Mg Tholeiite
1 Komatiite

A Alteration, Fe-Carbonate Silicification +/- Sericite
Q Quartz Veins
O EM Response (Mo/Mt)
ABOVE EM Response (Above Bedrock)
SIB Sqare (Not Sized)

42A01SE0006 2.18754 OTTO 220