

BOULDER LAKE

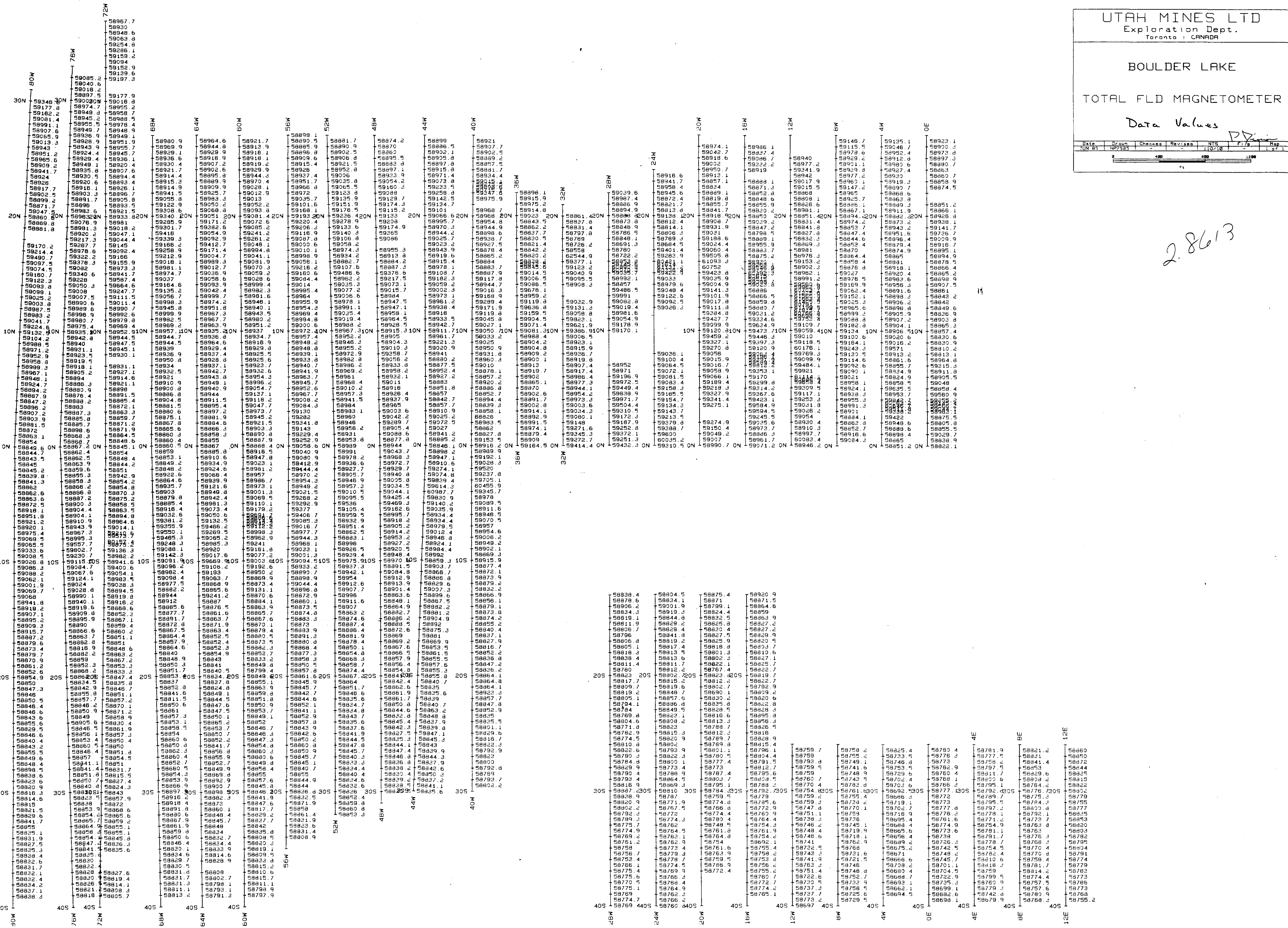
TOTAL FLD MAGNETOMETER

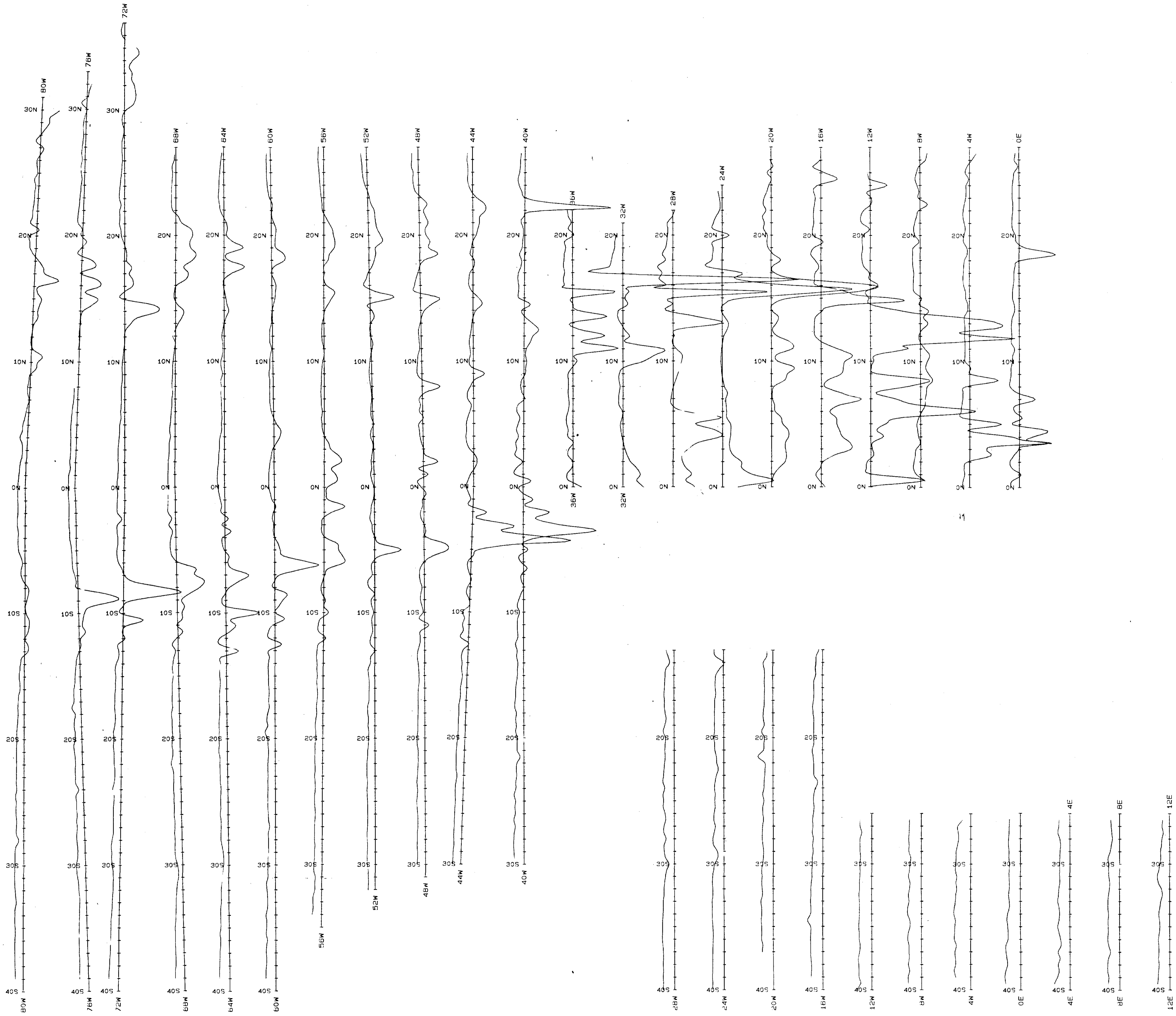
Data Values

Date	Drawn	Checked	Revised	NYS	Fig	Map
JUN 85	UP7585			110/18		

Scale: 1:50,000

2.8613





11

28613

UTAH MINES LTD
 Exploration Dept.
 Toronto, CANADA

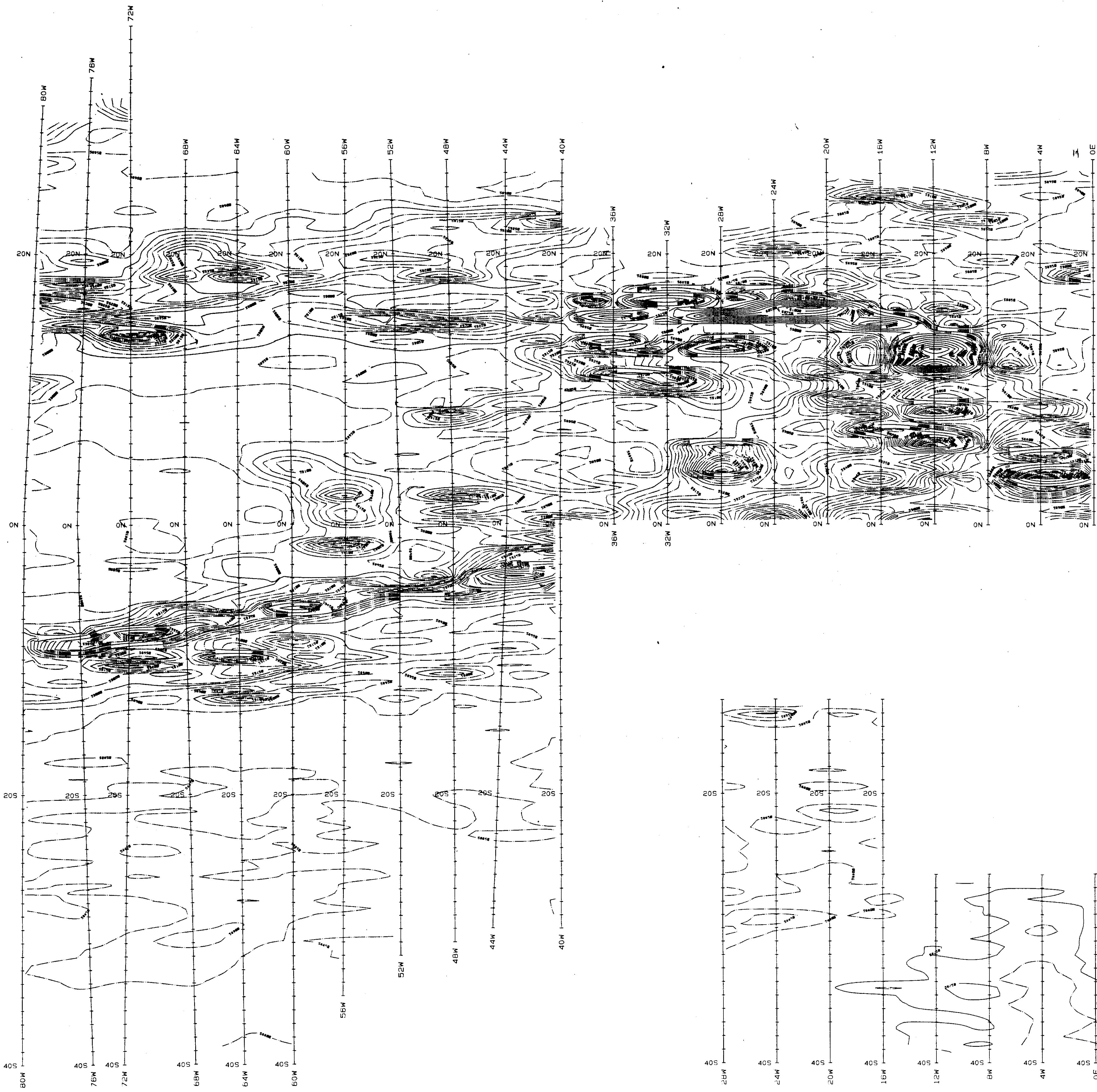
BOULDER LAKE MAG SURVEY

1000 Gammas/Inch
 59000 Gamma Background

Date	Drawn	Checked	Revised	NTS	File	Map
MAY 85	MP/285					1 of 2

0 400 800 1200
 Feet





28613

UTAH MINES LTD.
Exploration Dept.
Toronto : CANADA

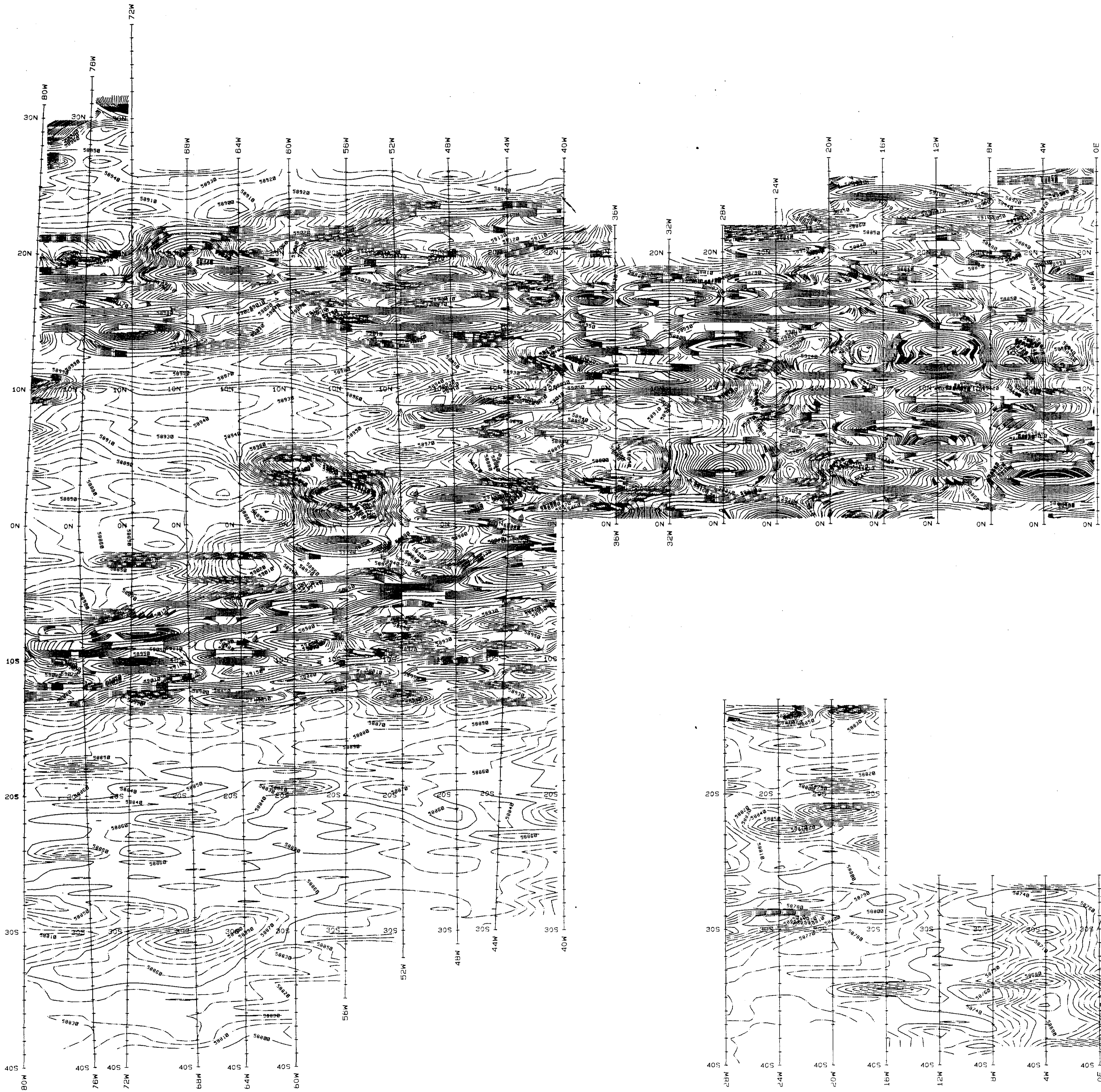
BOULDER LAKE MAG SURVEY

50 Gamma Contour Interval

Date	Drawn	Checked	Approved	NIS	File	Map
June 85	HD/584			4287		

1:50,000





28613

UTAH MINES LTD.
 Exploration Dept.
 Toronto : CANADA

BOULDER LAKE
MAGNETOMETER SURVEY
 10 Gamma Contour Interval

Date	Drawn	Checked	Revised	NTS	File	Map
JULY 85	HP7/85					1 of 1

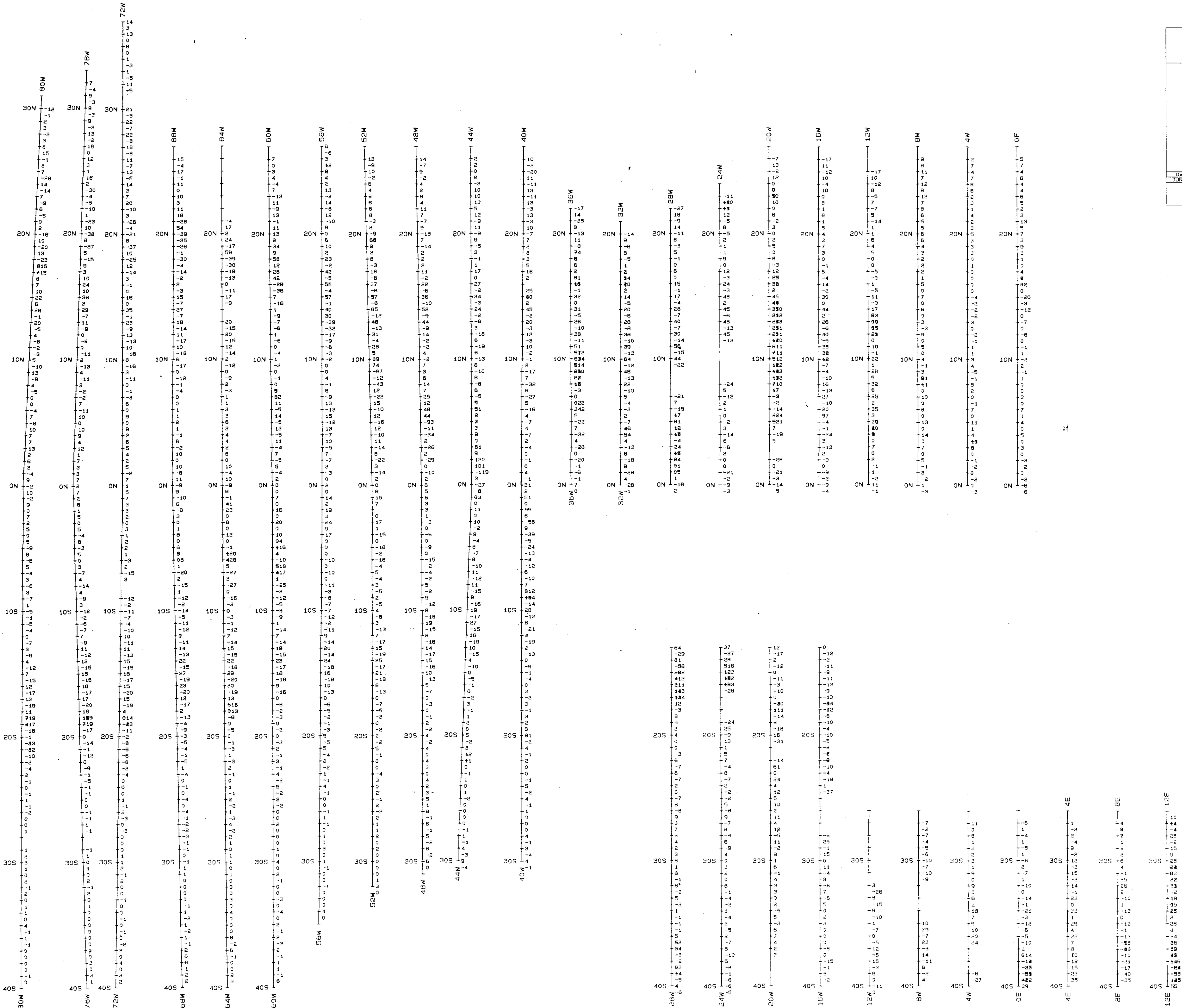
0 400 800 1200
 Feet

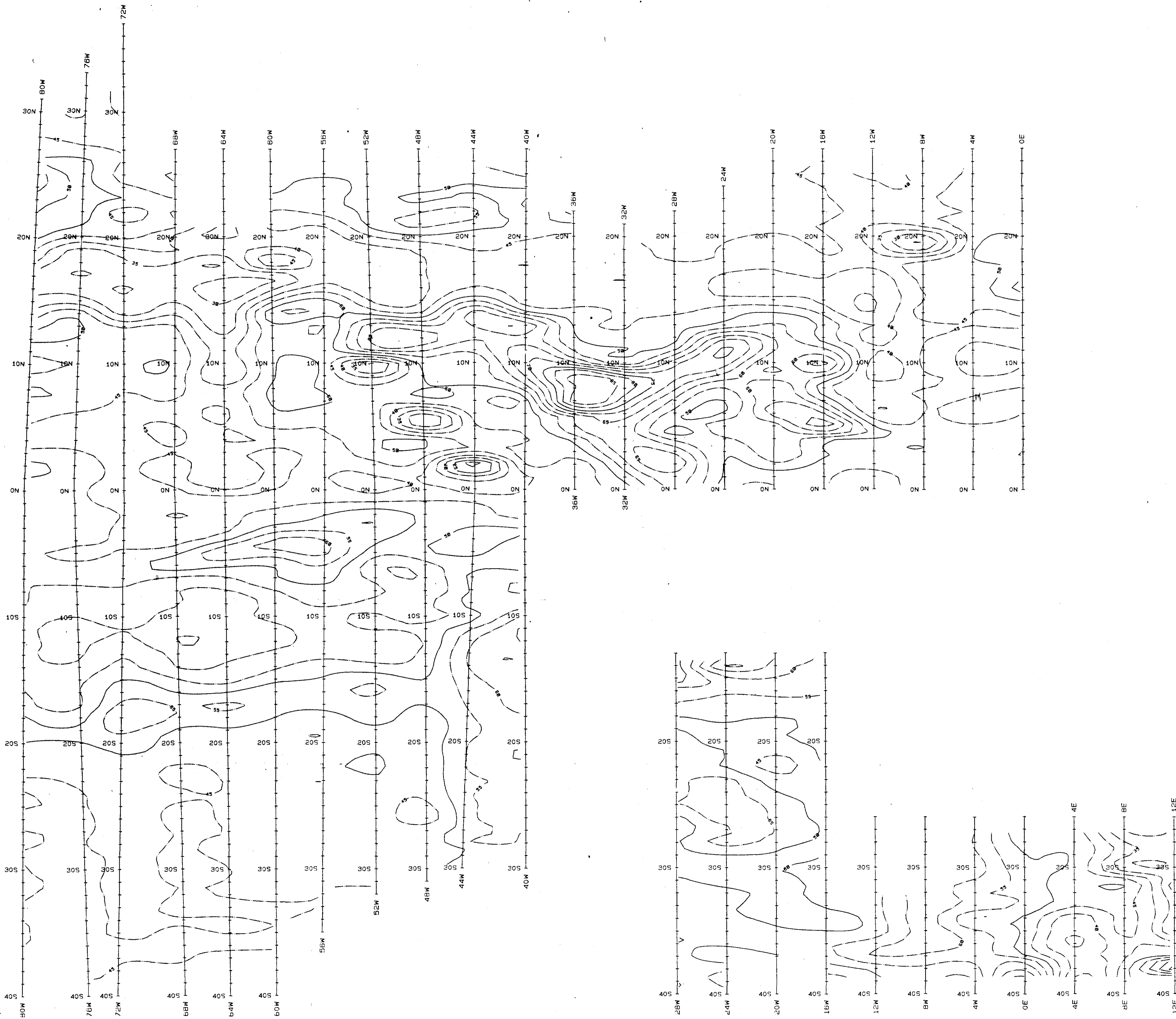


BOULDER LAKE
VLF EM SURVEY
INPHASE (top)
OUT OF PHASE (bottom)

Date	Drawn	Checked	Revised	NYS	File	Map
JUN 85	12/85	-	-	110/18	-	1 of 1

2.8613





28613

UTAH MINES LTD.
 Exploration Dept.
 Toronto: CANADA

BOULDER LAKE VLF
 HORIZONTAL MAGNETIC FIELD
 Contour Interval=5
 Arbitrary Units

Date	Drawn	Checked	Revised	NYS	File	Map
June 85	HP7895					of 2





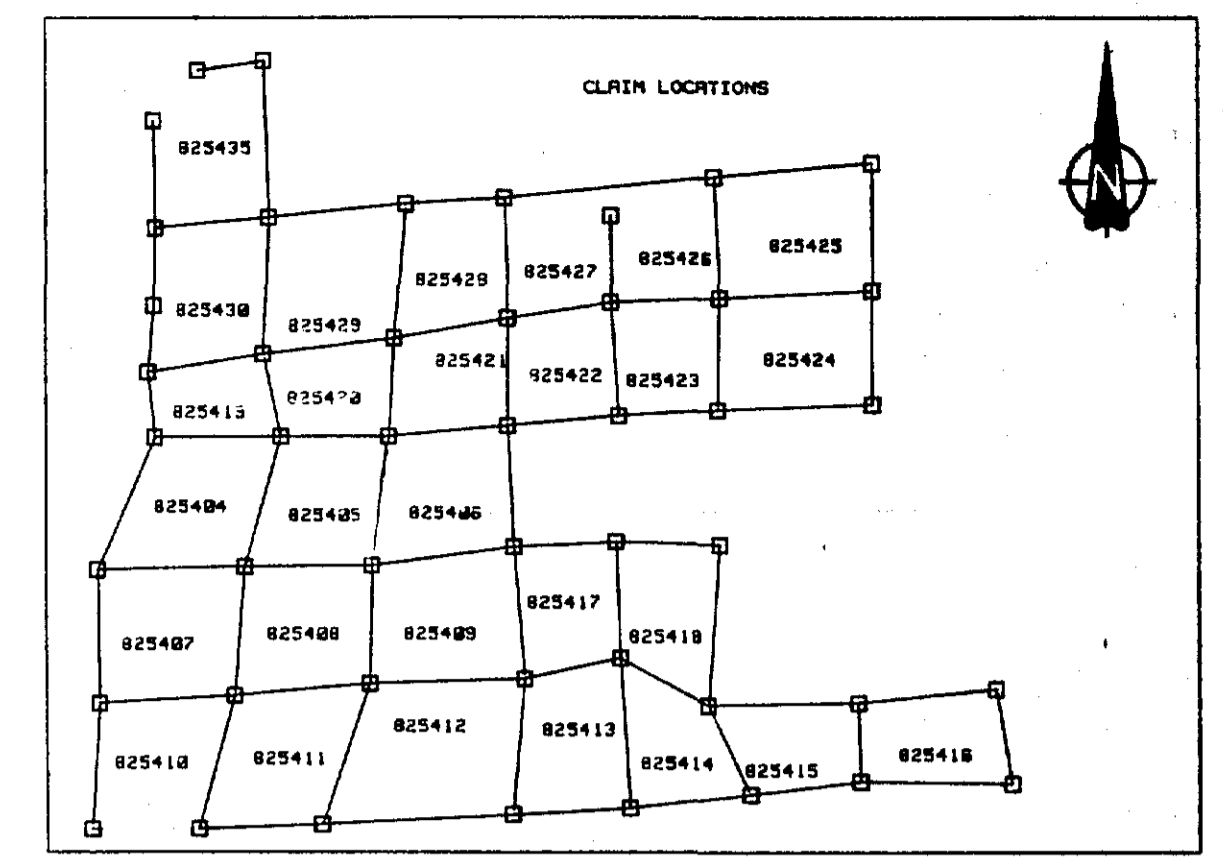
28613

UTAH MINES LTD
 Exploration Dept.
 Toronto, CANADA

BOULDER LAKE VLF
 Vertical In Phase (solid)
 Vertical Out of Phase (dashed)
 Scale = 100% per inch

Date	Drawn	Checked	Revision	N/S	File	Map
10/25/55	MP/2/55					101

0 400 800 1200
 Ft



28613

UTAH MINES LTD.
 Exploration Dept.
 Toronto, CANADA

BASE MAP
 BOULDER LAKE IP SURVEY

N=1 CHARGEABILITY (Msec)
 5 Msec Contour Interval

Date	Drawn	Checked	Revised	NTS	File	Rev
June 85	HP/BS					

Scale: 0 400 800 1200 Feet





42B01NE0012 2.8613 MUSKEGO

010

BOULDER LAKE PROPERTY NTS: 42 B/1
ASSESSMENT REPORT
ON
MAGNETIC AND VLF SURVEYS

RECEIVED
11 1985
MINING LANDS SECTION

Submitted By:
P. Diorio
November, 1985
Toronto, Ontario



42B01NE0012 2.8613 MUSKEGO

010C

TABLE OF CONTENTS

	<u>Page</u>
I INTRODUCTION	1.
II LOCATION AND ACCESS	1.
III CLAIMS COVERED BY THE SURVEY	1.
IV REGIONAL GEOLOGY	1.
V LOCAL GEOLOGY	3.
VI PREVIOUS EXPLORATION HISTORY	3.
VII SURVEY GRID	4.
VIII METHOD OF GEOPHYSICAL SURVEY	
(a) Magnetic Survey	4.
(b) VLF - EM Survey	5.
IX INTERPRETATION AND RESULTS	
(a) Magnetic Survey	6.
(b) VLF - EM Survey	6.

I INTRODUCTION

This report covers magnetometer and VLF-EM survey performed over a group of claims in Muskego and Keith Townships referred to here as the Boulder Lake property. This work is part of an on-going gold exploration program being conducted by Utah Mines Ltd. These surveys were intended to help initial mapping of the property by giving some indication of the geology underlying the overburden.

II LOCATION AND ACCESS

The property consists of 32 contiguous claims located approximately 10 miles southwest of Foleyet, Ontario. The property is reached by Highway 101 which transects the claim group. (Figure 1).

III CLAIMS COVERED BY THE SURVEY

The magnetic and VLF surveys cover claims P825404 to P825430 inclusive. Claims P824431 to P824435 are also part of the claim group but were not completely covered by the survey.

IV REGIONAL GEOLOGY

The regional geological setting of the Swayze Deloro metavolcanic-metasedimentary belt is outlined by Thurston et al, (1977)

All rocks in the Chapleau Area are of Early Precambrian age, with the exception of the carbonatite-alkalic complexes associated with the Kapuskasing Structural Zone. The Wawa and the Abitibi Sub-Province consist of volcanic and sedimentary belts generally within greenschist facies of metamorphism. The volcanic and sedimentary belts are surrounded and intruded by Algoma igneous intrusive rocks.

The Abitibi Greenstone Belt extends westward from Quebec into the map area and is abruptly terminated at the Kapuskasing Structural Zone. Several volcanic complexes have been delineated in the Abitibi Greenstone Belt by Goodwin and Riddler (1970).

The Deloro volcanic complex extends for 24 km from the Timmins - Nighthawk Lake Area to the Foleyet - Horwood Lake Area, where it is

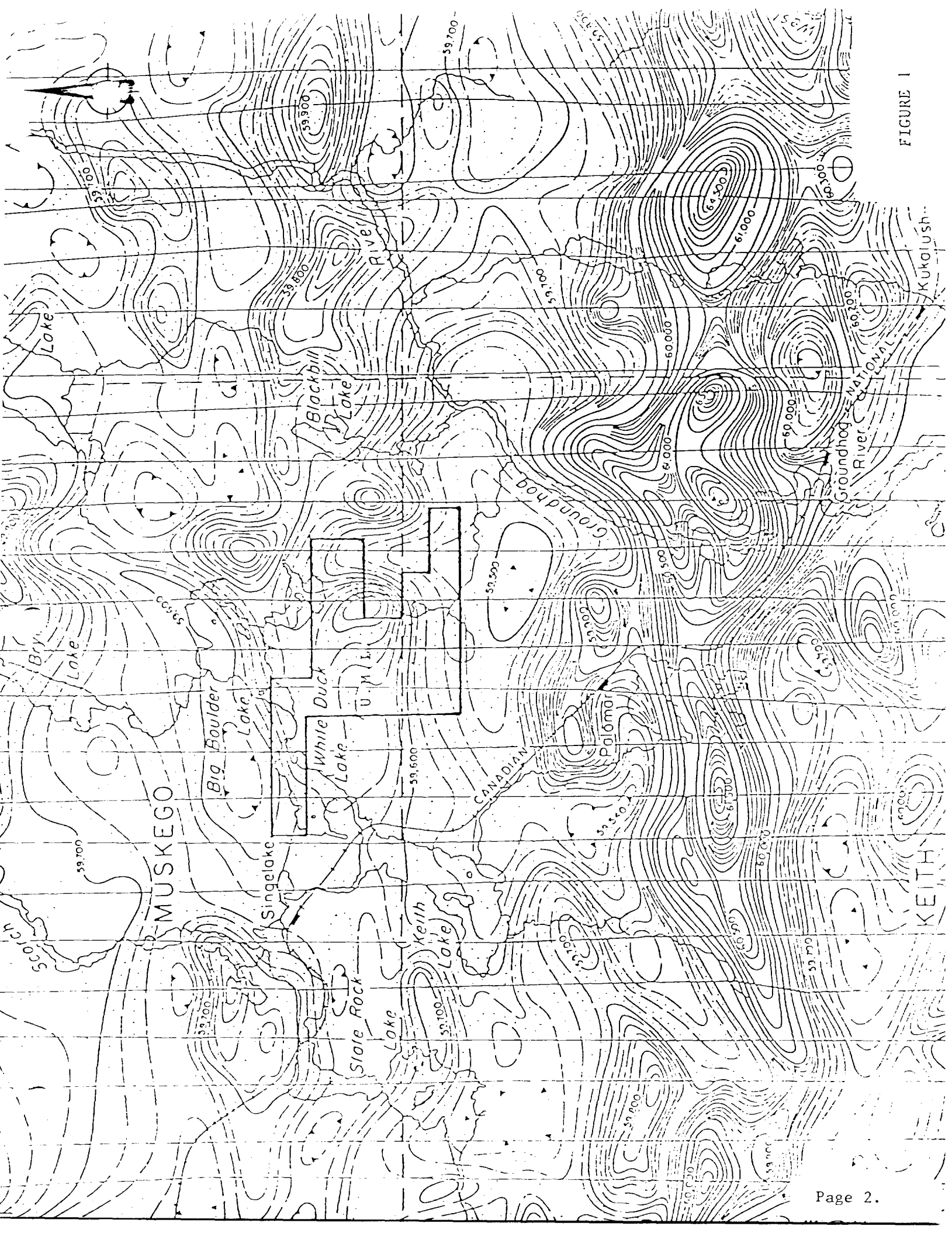


FIGURE 1

GEOPHYSICAL ASSESSMENT
REPORT

terminated by faults and granitic intrusions. Metavolcanic and metasedimentary rocks in the southern portion of the Muskego Twp. and in the northern portion of the Keith Twp. are within the northern margins of the Deloro volcanic complex.

V LOCAL GEOLOGY

This section contains a description of the geology of the northern half of Keith Twp. and the southern portion of Muskego Twp.

The area is covered by intermediate to mafic metavolcanic rocks consisting of pillowed and amygdaloidal basalts, mafic tuffs, chloritic schists, fragmental volcanics, and tremolitic volcanic rocks. These rocks are interlayered with less abundant felsic volcanics, and interbedded with metasedimentary rocks. The felsic volcanic rocks consist of agglomerates, tuffs, sericite schists, quartz, porphyries and feldspar porphyries. Several east-west trending metasedimentary units occur in the area, and consist of conglomerate, quartzite, arkose, greywacke and argillite. Thin iron formation (magnetic and hematite type) units trending east-west, outcrop in the northern half of Keith township. Ultramafic intrusive sills (serpentinite, hornblendite) intrude a large portion of the northern half of Keith township.

Several faults (north and northeast trending) with left lateral movement occur in the area.

VI PREVIOUS EXPLORATION HISTORY

Generally, the area has not been mapped in detail, there are several unmapped portions and for Muskego township essentially no exploration assessment work submitted. The area staked by Utah Mines Ltd., (Boulder Lake Property) is untested as far as exploration is concerned. IP survey, performed in conjunction with the surveys described herein, were filed for assessment under separate cover (Diorio, August 1985).

GEOPHYSICAL ASSESSMENT
REPORT

VII SURVEY GRID

Prior to commencement of the geophysical surveys, cut line grids were established to cover the mining claims. Linecutting was carried out by Exploration Services Limited, Noranda, Quebec under contract to Utah Mines Ltd.

The survey grid was established as shown on the accompanying maps. The grid uses an east-west base line (station 0 N) established 1300 feet north of the Keith-Muskego township lines. Control lines were cut at 2640 feet north and 2640 feet south of this base line. Traverse lines were cut at 400 foot intervals and stations established every 100 feet. At each station wooden pickets were emplaced, which were clearly marked with their respective grid designations.

VIII METHOD OF GEOPHYSICAL SURVEYS

(a) Magnetic Survey

The magnetic survey was carried out using a Scintrex MP-3 hand held Proton precession magnetometer. Magnetometers of this type make use of the phenomena called Nuclear Magnetic Resonance. The phenomena is observable when the nuclei of certain materials are first aligned to some direction by an intense magnetic field and then allowed to precess about a "weak" magnetic field. In the case of this survey the "weak" field is dominated by the earth's magnetic field. The intense magnetic field is produced by a D.C. current through a coil surrounding a proton rich fluid (kerosene). When the current is switched off, the protons process about the earth's field with a frequency directly proportional to that field. The proportionality appears to be fundamental property of the nuclei and is not influenced by temperature of chemical variations. The frequency is measured by observing the current induced in a coil surrounding the fluid. A magnetometer based on this principle is effectively free from drift. The Scintrex magnetometer used for this survey employs a sensor mounted on a staff which is held at arm's length from the operator, thereby reducing possible magnetic or electromagnetic

GEOPHYSICAL ASSESSMENT
REPORT

effects introduced by the operator. The output is in the form of a 6 digit display yielding the total field measurement in gammas (nanoteslas). The resolution and accuracy of this unit is ± 0.1 gamma.

Magnetic readings must be corrected for the time varying component of the geomagnetic field. This was done by correcting all readings with respect to a base station located on the grid at the baseline (LON) and L40W. The correction was carried out using this synchronized base station magnetometer.

Magnetometer readings were taken at 50 foot intervals along traverse lines with additional stations at 10 or 25 foot intervals in areas of high magnetic gradient. A total of approximately 2350 readings were recorded and corrected in this manner.

(b) VLF-EM Survey

The electromagnetic survey was carried out using a Scintrex VLF-3 Electromagnetic System. The VLF-3 is a receiver that measures the VLF magnetic field component from transmitter stations normally used for navigation and military submarine communications. The survey at Boulder Lake made use of the VLF transmitter in Cutler Maine operating at a frequency of 24.0 K Hz.

The VLF-3 measures three components of the VLF-magnetic field:

1. the horizontal amplitude vector in a direction perpendicular to a line joining the operator to the station;
2. vertical in-phase amplitude and;
3. vertical quadrature amplitude.

GEOPHYSICAL ASSESSMENT
REPORT

These components are recorded simultaneously for a given station. The vertical components are expressed as a percentage of the horizontal field.

IX INTERPRETATION AND RESULTS

(a) Magnetic Survey

The magnetic data is presented on separate plan maps at a scale of 1" = 400'.

- (1) Stacked Profiles (1000 gammas per inch)
- (2) Contour Plan (50 gamma contour interval)
- (3) Contour Plan (10 gamma contour interval)
- (4) Posted Data Values (gammas)
- (5) Base Map (IP Chargeability N = 1)

Magnetic data on the north half of the grid is dominated by strong anomalies (500-5000 gammas) which probably represent near surface or exposed basalt and/or its intrusive equivalent (gabbro/diabase).

South of the base line on L80W to L40W at approximately station 6S is a similar magnetic anomaly. This unit is bounded on the north by a VLF anomaly (B) and lies roughly 300' south of the peak of a strong linear IP chargeability anomaly. (IP data are filed for assessment under separate cover. A copy of N = 1 Dipole Dipole chargeability data is included here for convenience and to show base map information).

(b) VLF EM Survey

VLF data are presented on the following plan maps at a scale of 1" = 400':

- (1) Horizontal Field Contours (arbitrary units)
- (2) Vertical In-phase and Out-of-Phase Profiles with conductor axes marked (100% per inch)

GEOPHYSICAL ASSESSMENT
REPORT

(3) Vertical In-phase and Out-of-Phase posted data values
(%)

A number of anomalies, as indicated by peaks in the horizontal field and cross overs in the in-phase component, are marked on the accompanying maps. Conductor A and B are closely related to IP chargeability highs and warrant sampling by overburden stripping and, pending an encouraging outcome, diamond drilling. Other anomalies may represent shear zones and should be explored using geochem geologic mapping.

▷ *Diario*



**GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL
TECHNICAL DATA STATEMENT**

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Induced Polarization
 Township or Area Muskego and Keith Townships
 Claim Holder(s) Utah Mines Ltd.
 Survey Company Utah Mines Ltd.
 Author of Report P.A. Diorio Suite 900, Toronto
 Address of Author Utah Mines Ltd. 25 Adelaide St. E.
 Covering Dates of Survey May 10, 1985 to November 6, 1985
 (linecutting to office)
 Total Miles of Line Cut 30

MINING CLAIMS TRAVERSED	
List numerically	
P	825404
(prefix)	(number)
P	825405
P	825406
P	825407
P	825408
P	825409
P	825410
P	825411
P	825412
P	825413
P	825414
P	825415
P	825416
P	825417
P	825418
P	825419
P	825420
P	825421
P	825422
P	825423
P	825424
P	825425
P	825426
P	825427
P	825428
P	825429
TOTAL CLAIMS	825430 27 CLAIMS

If space insufficient, attach list

<u>SPECIAL PROVISIONS</u>	<u>DAYS</u>
<u>CREDITS REQUESTED</u>	<u>per claim.</u>
ENTER 40 days (includes line cutting) for first survey.	Geophysical –Electromagnetic <u>20</u>
ENTER 20 days for each additional survey using same grid.	–Magnetometer <u>20</u> –Radiometric _____ –Other _____ Geological _____ Geochemical _____

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)
 Magnetometer _____ Electromagnetic _____ Radiometer _____
 (enter days per claim)

DATE: Nov. 6, 1985 SIGNATURE: _____
 Author of Report or Agent

Res. Geol. _____ Qualifications _____

<u>Previous Surveys</u>			
File No.	Type	Date	Claim Holder

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

Number of Stations Mag = 2308 VLF = 1208 Number of Readings Mag = 2308 VLF = 3624
Station interval Mag = 50' VLF = 100' Line spacing 400'
Profile scale as shown on maps
Contour interval as shown on maps

MAGNETIC

Instrument Scintrex MP-4
Accuracy - Scale constant + 0.1 gammas
Diurnal correction method Synchronous base station
Base Station check-in interval (hours) N/A
Base Station location and value Line 40W Station 0 N
Value = 58916.2 Gammas

ELECTROMAGNETIC

Instrument Scintrex VLF-3
Coil configuration _____
Coil separation _____
Accuracy + 1%
Method: VLF Fixed transmitter Shoot back In line Parallel line
Frequency 24.0 K Hz Cutler Maine
(specify V.L.F. station)
Parameters measured Horizontal, Vertical Inphase, Vertical Out of Phase Magnetic
field components in percent.

GRAVITY

Instrument _____
Scale constant _____
Corrections made _____
Base station value and location _____
Elevation accuracy _____

INDUCED POLARIZATION RESISTIVITY

Instrument _____
Method Time Domain Frequency Domain
Parameters - On time _____ Frequency _____
- Off time _____ Range _____
- Delay time _____
- Integration time _____
Power _____
Electrode array _____
Electrode spacing _____
Type of electrode _____

REFERENCES

Goodwin, A.M. and Ridler, R.H. 1970, The Abitibi Orogenic Belt, P. 1-30 in: Symposium on Basins and Geosynclines of the Canadian Shield, ed. A.J. Baer, Geological Survey of Canada, Paper 70-40, p. 265.

Map 2221 Geological Compilation Series, Chapleau - Foleyet, Scale 1:253,440

Map 1950-4 Parts of Keith and Muskego Townships, Scale 1:12,000

Map 2263 G Groundhog Lake, Airborne Magnetics Survey, Scale 1:63,360

Thurston, P.C. Siragusa, G.M. and Sage, R.P. 1977: Geology of the Chapleau Area, Districts of Algoma, Sudbury and Cochrane: Ontario Division of Mines, GR 157, p. 293.



42B01NE0012 2.8613 MUSKEGO

Mining

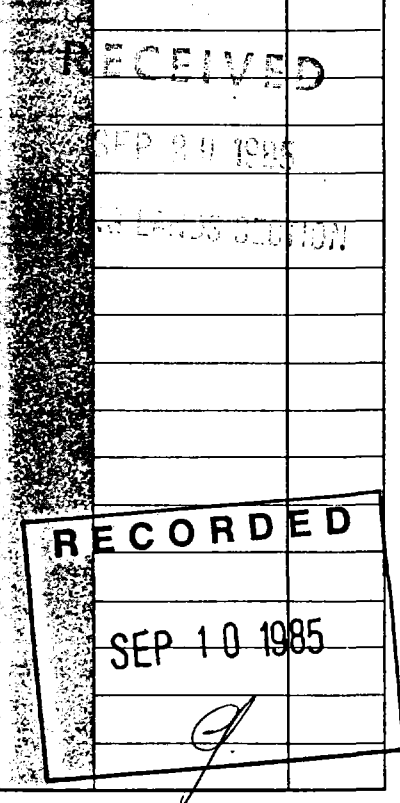
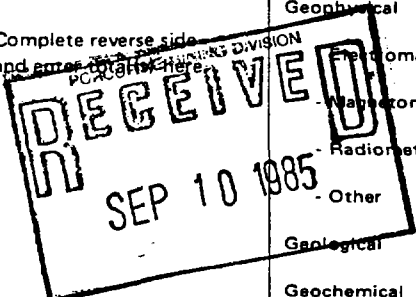
Type of Survey(s) TOTAL FIELD MAGNETOMETER AND VLF-EM		Township or Area MUSKEGO & KEITH	
Claim Holder(s) UTAH MINES LTD		Prospector's Licence No. T-793	
Address 5 BIRCH ST. NORTH, TIMMINS, (ONTARIO), P4N 6C8			
Survey Company UTAH MINES LTD		Date of Survey (from & to) 10 Day 05 Mo. 85 Yr. 22 Day 08 Mo. 85 Yr.	Total Miles of line Cut 23.0
Name and Address of Author (of Geo-Technical report) GUY L TREADWELL, 5 BIRCH ST. NORTH, TIMMINS, ONTARIO, P4N 6C8			

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	20
	- Magnetometer	20
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter in MINING DIVISION PERMITS HERE	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
Airborne Credits	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
P	825404	40			
	825405	40			
	825406	40			
	825407	40			
	825408	40			
	825409	40			
	825410	40			
	825414	40			
	825415	40			
	825416	40			
	825418	40			
	825419	40			
	825420	40			
	825421	40			
	825422	40			
	825424	40			
	825425	40			
	825426	40			
	825427	40			
	825428	40			
	825429	40			
	825430	40			



Total number of mining claims covered by this report of work. **22**

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures ÷ **15** = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

For Office Use Only

Total Days Cr. Recorded **886** Date Recorded **Sept 10 / 85** Mining Records

Date Approved as Recorded **85. 11. 21** Branch *[Signature]*

Date **Sept 9/85** Recorded Holder or Agent (Signature) *[Signature]*
UTAH MINES LTD.

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying
Guy L Treadwell 5 Birch St. North, Timmins, Ont P4N 6C8



Ministry of
Natural Resources

Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

327/85
28613

Mining Act

- Instructions: - Please type or print.
- If number of mining claims traversed exceeds space on this form, attach a list.
 - Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
 - Do not use shaded areas below.

Oxley 30th

Type of Survey(s) TOTAL FIELD MAGNETOMETER & VLF - EM		Township or Area MUSKEGO & KEITH TWPS	
Claim Holder(s) UTAH MINES LTD		Prospector's Licence No. T-793	
Address 5 BIRCH ST. NORTH, TIMMINS, ONTARIO, P4N 6C8			
Survey Company UTAH MINES LTD		Date of Survey (from & to) 10 05 85 22 08 85 <small>Day Mo. Yr. Day Mo. Yr.</small>	Total Miles of line Cut 7
Name and Address of Author (of Geo-Technical report) 5 BIRCH ST. NORTH, TIMMINS, ONTARIO, P4N 6C8			

Credits Requested per Each Claim in Columns at right			Mining Claims Traversed (List in numerical sequence)					
Special Provisions For first survey: Enter 40 days. (This includes line cutting) For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical	Days per Claim	Mining Claim Prefix Number Expend. Days Cr.	Mining Claim Prefix Number Expend. Days Cr.	RECORDED SEP 23 1985			
	- Electromagnetic	20				P 825411 60		
	- Magnetometer	40				825412 60		
	- Radiometric					825423 60		
	- Other							
	Geological							
	Geochemical							
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim						
	- Electromagnetic							
	- Magnetometer							
	- Radiometric							
	- Other							
	Geological							
	Geochemical							
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	Days per Claim						
	Magnetometer							
	Radiometric							

RECEIVED
SEP 10 1985
FORCUPINE MINING DIVISION

Total number of mining claims covered by this report of work. **3**

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures ÷ **15** = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

For Office Use Only

Total Days Cr. Recorded 180	Date Recorded Sept 10/85	Mining Record Approved as Recorded <i>[Signature]</i>
Branch Director		Stanley

See Reused Statement

Date **Sept 9/85**

Recorded Holder or Agent (Signature)
[Signature]
UTAH MINES LTD.

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying

Mining Lands Section

File No 2.8613

Control Sheet

TYPE OF SURVEY

- GEOPHYSICAL
- GEOLOGICAL
- GEOCHEMICAL
- EXPENDITURE

MINING LANDS COMMENTS:

*Capt
h.D.*

J. Hurst

Signature of Assessor

Nov 13/85

Date

1986 01 03

Your File: 327/85
Our File: 2.8613

Mining Recorder
Ministry of Northern
Development & Mines
60 Wilson Ave.
Timmins, Ontario
P4N 2S7

Dear Sir:

RE: Notice of Intent dated 1985 11 19
Geophysical (Electromagnetic &
Magnetometer) Survey on Mining
Claims P 825411 , et al, in the
Townships of Muskego and Keith.

The assessment work credits, as listed with the
above-mentioned Notice of Intent, have been approved
as of the above date.

Please inform the recorded holder of these mining
claims and so indicate on your records.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone:(416)965-4888

SH:bc

cc: Utah Mines Ltd.
5 Birch Street North
Timmins, Ontario
P4N 6C8
Attention: Guy L. Treadwell

cc: Mr. G. H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

Resident Geologist
Timmins, Ontario

Recorded H

UTAH MINES LTD

Township or Area

MUSKEGO AND KEITH TOWNSHIPS

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<p>Geophysical</p> <p>Electromagnetic <u>17</u> days</p> <p>Magnetometer <u>34</u> days</p> <p>Radiometric _____ days</p> <p>Induced polarization _____ days</p> <p>Other _____ days</p> <p>Section 77 (19) See "Mining Claims Assessed" column</p> <p>Geological _____ days</p> <p>Geochemical _____ days</p> <p>Man days <input type="checkbox"/> Airborne <input type="checkbox"/></p> <p>Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/></p> <p><input checked="" type="checkbox"/> Credits have been reduced because of partial coverage of claims.</p> <p><input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.</p>	<p>P 825411 - 12 - 13</p>

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.



Ministry of
Natural
Resources

Dec 11/85

1985 11 19

Your File: 327/85
Our File: 2.8613

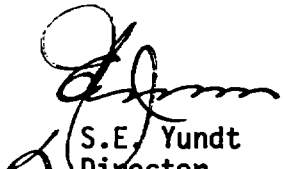
Mining Recorder
Ministry of Northern Affairs and Mines
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at 416/965-4888.

Yours sincerely,


S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3

SH
SH/mc

Encls.

cc: Utah Mines Ltd
5 Birch Street North
Timmins, Ontario
P4N 6C8
Attention: Guy L. Treadwell

Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario



Ministry of
Natural
Resources

Notice of Intent
for Technical Reports

1985 11 19

2.8613/327/85

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

REGISTERED

November 4, 1985

Report Of Work 311 & 327

Utah Mines Ltd
5 Birch Street North
Timmings, Ontario
P4N 6C8

Attention: Guy Treadwell

Dear Sir:

RE: Mining Claims P 825404, et al,
in Muskego and Keith Townships

I have not received the reports and maps (in duplicate) for Geophysical (Electromagnetic and Magnetometer) Surveys on the above-mentioned claims.

As the assessment "Report of Work" was recorded by the Mining Recorder on September 10, 1985 the 60 day period allowed by Section 77 of the Mining Act for the submission of the technical reports and maps to this office will expire on November 12, 1985.

If the material is not submitted to this office by November 12, 1985 I will have no alternative but to instruct the Mining Recorder to delete the work credits from the claim record sheets.

For further information, please contact Mr. Arthur Barr at (416)965-4888.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416)965-4888

AB/mc

cc: Mining Recorder - Timmings, Ontario



GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Induced Polarization , Mag and VLF
Township or Area Muskego and Keith Townships
Claim Holder(s) Utah Mines Ltd.

Survey Company Utah Mines Ltd.
Author of Report P.A. Diorio Suite 900, Toronto
Address of Author Utah Mines Ltd. 25 Adelaide St. E.
Covering Dates of Survey May 10, 1985 to November 6, 1985
(linecutting to office)
Total Miles of Line Cut 30

MINING CLAIMS TRAVERSED
List numerically

P	825404
(prefix)	(number)
P	825405
P	825406
P	825407
P	825408
P	825409
P	825410
P	825411
P	825412
P	825413
P	825414
P	825415
P	825416
P	825417
P	825418
P	825419
P	825420
P	825421
P	825422
P	825423
P	825424
P	825425
P	825426
P	825427
P	825428
P	825429
P	825430
TOTAL CLAIMS <u>27 CLAIMS</u>	

If space insufficient, attach list

SPECIAL PROVISIONS
CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

Geophysical	DAYS per claim.
-Electromagnetic	<u>20</u>
-Magnetometer	<u>20</u>
-Radiometric	_____
-Other	_____
Geological	_____
Geochemical	_____

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: Nov. 6, 1985 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications 24695

Previous Surveys

File No.	Type	Date	Claim Holder

OFFICE USE ONLY

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

ANALYTICAL METHODS

Values expressed in: per cent
p. p. m.
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, -(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations Mag = 2308 VLF = 1208 Number of Readings Mag = 2308 VLF = 362
Station interval Mag = 50' VLF = 100' Line spacing 400'
Profile scale as shown on maps
Contour interval as shown on maps

MAGNETIC

Instrument Scintrex MP-4
Accuracy – Scale constant ± 0.1 gammas
Diurnal correction method Synchronous base station
Base Station check-in interval (hours) N/A
Base Station location and value Line 40W Station 0 N
Value = 58916.2 Gammas

ELECTROMAGNETIC

Instrument Scintrex VLF-3
Coil configuration
Coil separation
Accuracy ± 1%
Method: VLF [x] Fixed transmitter [] Shoot back [] In line [] Parallel line
Frequency 24.0 K Hz Cutler Maine (specify V.L.F. station)
Parameters measured Horizontal, Vertical Inphase, Vertical Out of Phase Magnetic field components in percent.

GRAVITY

Instrument
Scale constant
Corrections made
Base station value and location
Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

Instrument
Method [] Time Domain [] Frequency Domain
Parameters – On time Frequency
– Off time Range
– Delay time
– Integration time
Power
Electrode array
Electrode spacing
Type of electrode