



41P11SE0157 2.11419 ASQUITH

010

REPORT ON A MAGNETOMETER SURVEY

FOR

ASQUITH RESOURCES INC.

ASQUITH TOWNSHIP PROPERTY

DISTRICT OF SUDBURY

LARDER LAKE MINING DIVISION

N.T.S. 41 - P - 11

Toronto, Ontario
June 30, 1988

J. L. Tindale and Associates Inc.

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JUL 22 1988

MINING LANDS SECTION



41P11SE0157 2.11419 ASQUITH

010C

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INTRODUCTION

Asquith Resources Inc., 907-110 Erskine Avenue, Toronto, Ontario holds a 100% interest in a block of 15 unpatented mining claims located within the central portion of Asquith Township, in the Shining Tree Gold Area of Ontario. These claims form a portion of a larger group of claims acquired by the Company during 1986 and 1987. Lines have been cut across the entire claim group in preparation for an expanded program of geological mapping and geophysical surveying planned for the remainder of 1988.

The following report describes a magnetometer survey carried out over the subject claims on the Asquith Township property

DESCRIPTION OF CLAIMS, LOCATION, ACCESS AND TOPOGRAPHY

The claims which are here reported on are owned 100% by Asquith Resources Inc. and as previously mentioned are part of a larger group of contiguous claims owned by the Company in Asquith Township.

The claims subject of this report are listed as follows:

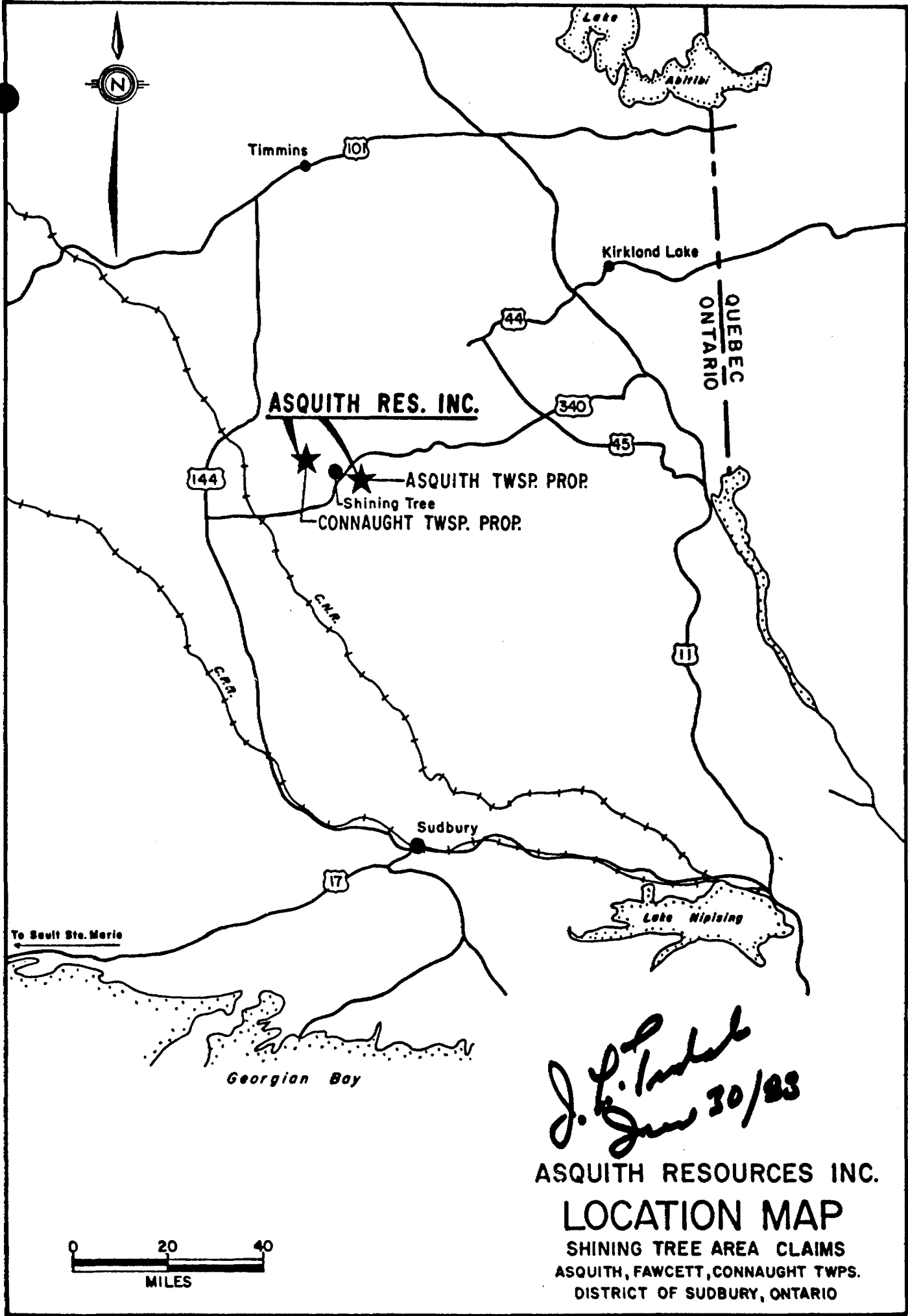
CLAIM NO.	OWNERSHIP
L973348 - 973356 (9)	Asquith Resources Inc.
L980036 - 980042 (6)	Asquith Resources Inc.

The claims are located in the central part of Asquith Township approximately two miles east and five miles southeast respectively of the village of Shining Tree. Shining Tree is serviced by Highway 560 and is approximately 60 miles south of Timmins, Ontario. Access to the claims is by the old Buckingham Mine road which leaves Highway 560 about one-half mile east of Shining Tree and proceeds east and south for some five miles to the old Buckingham Mine workings in the east-central portion of the Township. This trail, suitable for snowmobiles and A.T.V. cycles, gives access to the claim group surveyed.

The claim group is covered with a thick growth of poplar, spruce and jackpine over the high ground, and cedar, pine and alder over the lower swampy areas. Stewart, Seager, Pike and Wild Dog Lakes cover a portion of the claim group.

PREVIOUS WORK

The central group of 15 claims covers the most important gold showing on the property, that being the Buckingham Mine Gold Zone. The Buckingham Mine is covered by 3 leased mining claims located in the east-central portion of the Asquith Township property. Surface trenching



Timmins

103

Kirkland Lake

44

QUEBEC
ONTARIO

ASQUITH RES. INC.

340

45

144

ASQUITH TWS. PROP.
Shining Tree
CONNAUGHT TWS. PROP.

C.N.R.

C.N.R.

11

Sudbury

17

To Sault Ste. Marie

Lake Nipissing

Georgian Bay

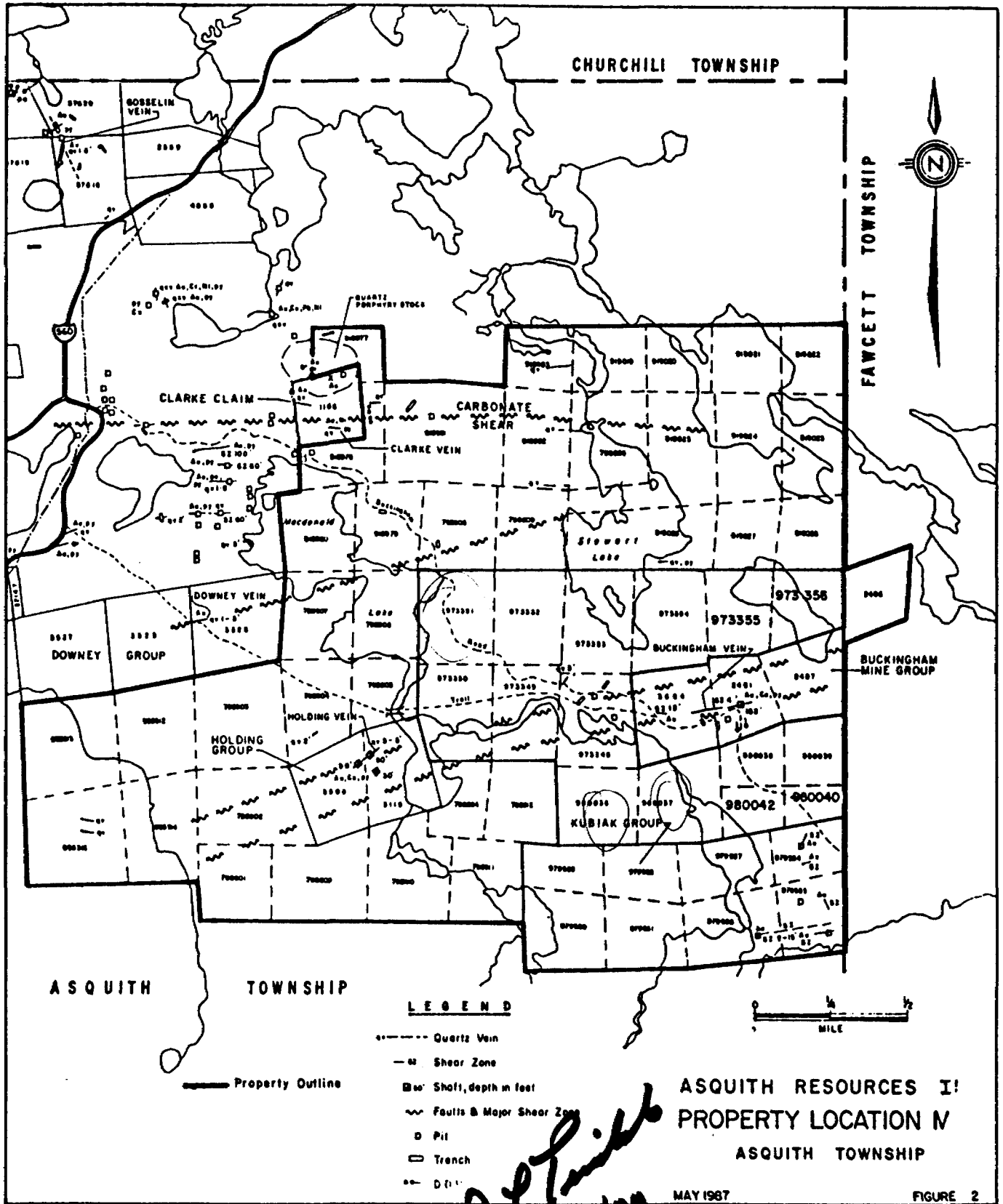
*J. P. ...
June 30/83*

ASQUITH RESOURCES INC.

LOCATION MAP

SHINING TREE AREA CLAIMS
ASQUITH, FAWCETT, CONNAUGHT TWPS.
DISTRICT OF SUDBURY, ONTARIO





*J.P. Smith
Jan 30/88*

and limited underground development traced a gold-bearing, quartz-filled shear zone a distance of 800 feet along strike during the 1930's. Two parallel zones to the north were also encountered, all of which received only cursory attention. There has been no exploration of any significance in the area since that time.

GENERAL GEOLOGY

The area of interest is underlain by Precambrian rocks which are covered by a mantle of Pleistocene and recent deposits.

The Precambrian sequence consists of a suite of mafic to felsic intrusive rocks and diabase dykes. By far, the most dominant rock type in the area are the mafic volcanic rocks which are predominantly black in colour, fine grained and often exhibit pillow structures. Interlayered with these mafic volcanics are intermediate metavolcanics which are light green in colour and show similar structures. Felsic metavolcanics are pale grey to yellow, white weathering rocks, which are usually porphyritic containing phenocrysts of quartz which are usually blue in colour. Minor metasediments occur interbedded with the metavolcanics and these consist primarily of interflow chert, arkose and greywacke. The ultramafic and mafic intrusives consist of serpentinite, diorite and gabbro and green and brown carbonate rocks which are believed to be derived from ultramafic rocks. The intrusive intermediate to felsic rocks range from dioritic to granite in composition and are massive, porphyritic to gneissic. The porphyritic rocks occur mainly as small stocks less than one-half mile wide and are intrusive into the mafic metavolcanics. Diabase dykes trend in a northerly direction throughout the area and are usually black in colour, magnetic, medium grained and non-porphyritic.

The early Precambrian rocks are tightly folded about NNW-trending fold axes. These rocks possess a well-developed foliation which trends in either a N30W or east-west direction, the latter being the better developed. A gneissic structure is developed in the granitic rocks near their contact with the metavolcanics.

Schist zones which are believed to represent shear zones are developed in both the mafic and felsic metavolcanics, but occur more commonly in the latter where they are often rusty-coloured owing to the formation of limonite after pyrite. These rust-coloured, felsic schist-zones are important economically for gold mineralization.

SURVEY PROCEDURE

A system of grid lines were cut over the property during September and October 1987 by linecutters in the employ of Geosphere Consultants of Toronto, Ontario.

Grid "A" covers the central portion of the claim group, its baseline extending across the property in an easterly direction. Cross-lines were cut at 400 foot intervals, except in the area covering the Buckingham Gold Zones where 200 foot line spacings were utilized. Survey reference points were placed along all the grid lines at 100 foot intervals.

The magnetic data was collected utilizing a GEM Systems Model GSM-8 proton magnetometer, with an absolute accuracy of +/-1 gamma. Corrections for diurnal drift were made from readings taken along the grid baseline and along the Buckingham Mine road, these readings being duplicated during the course of the survey and the difference between the readings being applied to the additional readings along the grid lines. This method of adjusting for diurnal variations noted that the average adjustment for the course of the survey was approximately 20 gammas. Base value for compilation was chosen at 58000 gammas.

A total of 804 readings at 100 foot survey intervals were taken along approximately 15.2 line-miles over the 15-claim group as well as the 3-leases covering the Buckingham Mine. The readings were taken during the period May 16 to 19, 1988, by Kenneth W. Johnson of J. L. Tindale and Associates Inc., Toronto.

Drafting of the map and report has been completed by the writer.

DISCUSSION OF RESULTS

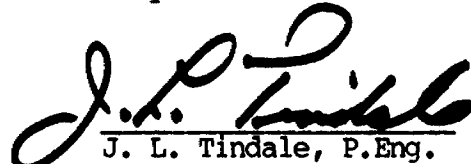
Magnetically the strongest features present on the claims is a series of north-northwest trending magnetically-high responses extending northwards from claim L980042 through to L973354. This feature is interpreted as being due to a diabase dyke. Discontinuous, less prominent magnetic highs are evident just north and south of the baseline on claims L973349 to 973352 inclusive. These magnetic anomalies may be due to stratabound lithological units, or again may be due to the diabase intrusives. Follow-up geological mapping is required to fully interpret these magnetic features.

CONCLUSIONS

The magnetic survey was useful in outlining the limits of the diabase dykes which cross the claim group. The information derived from this survey will aid in the interpretation of the planned electromagnetic and geological surveys of the property.

All of which is respectfully submitted for your information.

June 30, 1988
Toronto, Ontario

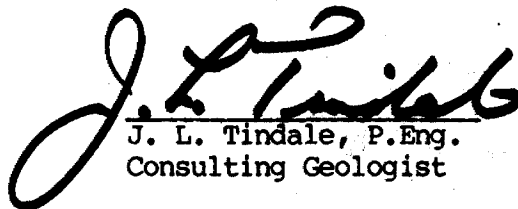

J. L. Tindale, P.Eng.
Consulting Geologist

CERTIFICATE

I, John Laverne Tindale, of the City of Toronto, do hereby declare:

1. That I am a consulting Geologist residing at 110 Erskine Avenue, Toronto, Ontario M4P 1Y4.
2. That I graduated from McMaster University in 1956 with a Bachelor of Science degree in Honours Geology.
3. That I am a registered Professional Engineer in the Province of Ontario.
4. That I assisted in the planning and supervision of the subject programs and participated in the compilation of the data forming the basis of this report.

June 30, 1988
Toronto, Ontario


J. L. Tindale, P.Eng.
Consulting Geologist



Lands Management

Mining Act

Type of Survey(s) **Magnetometer** 2.11419 Township or Area **Cobalt**
Asquith Township
Prospector's Licence No. **T4759**

Claim Holder(s) **Asquith Resources Inc.**

Address **907 - 110 Erskine Avenue, Toronto, Ontario M4P 1Y4**

Survey Company **J.L. Tindale & Associates Inc.** Date of Survey (from & to) **16 Day | 5 Mo. | 88** | **19 Day | 5 Mo. | 88** Total Miles of line Cut **17.6**

Name and Address of Author (of Geo-Technical report) **J.L. Tindale, 907 - 110 Erskine Avenue, Toronto, Ontario M4P 1Y4**

Credits Requested per Each Claim in Columns at right			Mining Claims Traversed (List in numerical sequence)					
Special Provisions	Geophysical	Days per Claim	Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
			Prefix	Number		Prefix	Number	
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	40	L	973348				
	- Magnetometer			973349				
	- Radiometric			973350				
	- Other			973351				
For each additional survey: using the same grid: Enter 20 days (for each)	Geological			973352				
	Geochemical			973353				
				973354				
				973355				
Man Days Complete reverse side and enter total(s) here	- Electromagnetic			973356				
	- Radiometric			980036				
	- Other			980037				
				980038				
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic			980039				
	Magnetometer			980040				
	Radiometric			980042				

RECEIVED
JUN 1 1988
MINING LANDS SECTION

RECORDED
MAY 24 1988
Receipt #

ORDER TAKE
MAY 24 1988
7:18:10 PM

Expenditures (excludes power stripping)

Type of Work Performed **ONTARIO GEOLOGICAL SURVEY ASSESSMENT FILES OFFICE**

Performed on Claim(s) **AUG 17 1988**

Calculation of Expenditure Credits

Total Expenditures \$ ÷ 15 =

Total number of mining claims covered by this report of work. **15**

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 **600** Date Recorded **May 24/88** Mining Recorder **M. A. S. [Signature]**

Date Approved as Recorded **May 88** Branch Director **[Signature]**

Date **May 22/88** Recorded Holder or Agent (Signature) **J.L. Tindale**

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 **J.L. Tindale, 907 - 110 Erskine Avenue Toronto, Ontario M4P 1Y4**

Date Certified **May 22, 1988** Certified by (Signature) **[Signature]**



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) Magnetic Survey
Township or Area Asquith Township
Claim Holder(s) Asquith Resources Inc.
907-110 Erskine Ave; Toronto
Survey Company J.L. Tindale + Associates Inc.
Author of Report J.L. Tindale P. Eng
Address of Author 907-110 Erskine Ave; Toronto
Covering Dates of Survey May 16 to 19, 1988
(linecutting to office)
Total Miles of Line Cut 17.6 miles.

MINING CLAIMS TRAVERSED
List numerically

L 980036 (prefix) (number)
980037
980038
980039
980040
980042
L 973348
973349
973350
973351
973352
973353
973354
973355
973356

If space insufficient, attach list

**SPECIAL PROVISIONS
CREDITS REQUESTED**

DAYS
per claim

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

ENTER 20 days for each
additional survey using
same grid.

Geophysical
-Electromagnetic _____
-Magnetometer 40
-Radiometric _____
-Other _____
Geological _____
Geochemical _____

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

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

DATE June 30/88 SIGNATURE: J.L. Tindale
Author of Report or Agent

Res. Geol. _____ Qualifications 63-2846

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 15

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations Magnetic Survey - 804 Number of Readings 804
Station interval 100 feet Line spacing 200 : 400 feet
Profile scale N/A
Contour interval 1000 Gammas

MAGNETIC

Instrument GEM Systems Model GSM-8
Accuracy – Scale constant ± 1 Gamma
Diurnal correction method Baseline Loop
Base Station check-in interval (hours) 1/2 hr
Base Station location and value 58000 Gammas

ELECTROMAGNETIC

Instrument _____
Coil configuration _____
Coil separation _____
Accuracy _____
Method: Fixed transmitter Shoot back In line Parallel line
Frequency _____
(specify V.L.F. station)
Parameters measured _____

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 _____

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 _____

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M.+S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
M.N.R. RESERVE			S.R.O.	168005
M.N.R. RESERVE			S.R.O.	168005
WASTE DISPOSAL		2/9/81	S.R.O.	
SEC. 36/80 W.91/81 28/8/81 S.R.O. 168517				
Withdrawal Sec 34/80 Mining Act, Order W 13/81 28/8/81 Surface rights only withdrawn				
A5 Withdrawal Sec 36/80 Mining Act, Order W 13/81 30/01/86 Surface Mining Rights				
A6 Withdrawal Sec 36/80 Mining Act, Order W 27/86, 09/04/86, Surface Mining Rights				
A7 Withdrawal Sec 36/80 Mining Act, Order W 27/86, 30/04/86, Surface Mining Rights				

APPLICATION FOR SURFACE RIGHTS
PENDING - PUBLIC LAND ACT FEBRUARY 12, 1988

SAND and GRAVEL

M.T.C. Pit 488
M.T.C. Gravel Pit No 3C-14
Gravel Pit File 124428
M.T.C. Pit 3C-16
M.T.C. Gravel Pit No 3C-15

NOTICE OF FORESTRY ACTIVITY

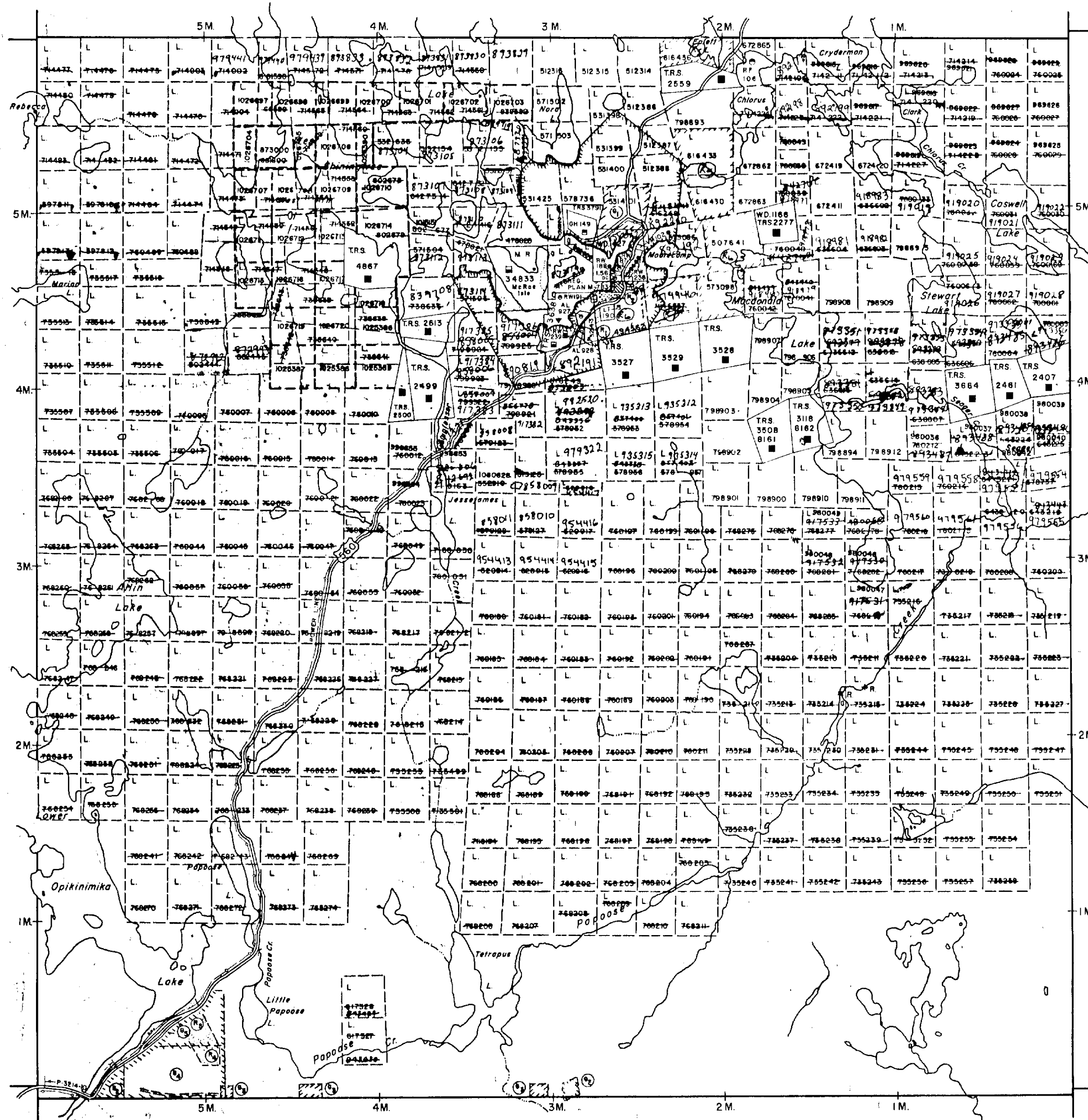


POM IWO
705-894-2000

200

geology reference-COBALT
RESIDENT GEO.

Churchill Twp.



LEGEND

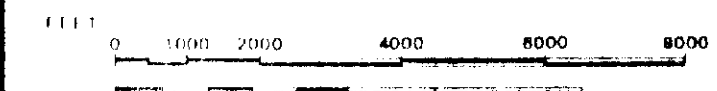
- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
 - TOWNSHIPS, BASE LINES, ETC.
 - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
 - LOT LINES
 - PARCEL BOUNDARY
 - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINIS
- TRAVEL MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	○
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	■
" MINING RIGHTS ONLY	■
LICENCE OF OCCUPATION	▽
ORDER IN COUNCIL	□
RESERVATION	○
CANCELLED	⊗
SAND & GRAVEL	⊙

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 8, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.

SCALE: 1 INCH = 40 CHAINS

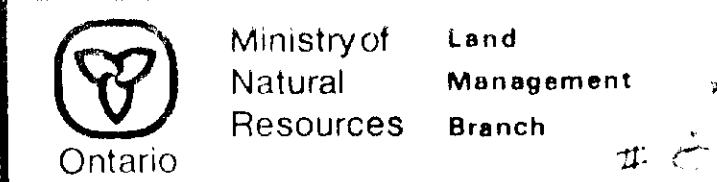


DATE OF ISSUE
AUG 5 1988

TOWNSHIP LARDER LAKE
MINING RECORDER'S OFFICE

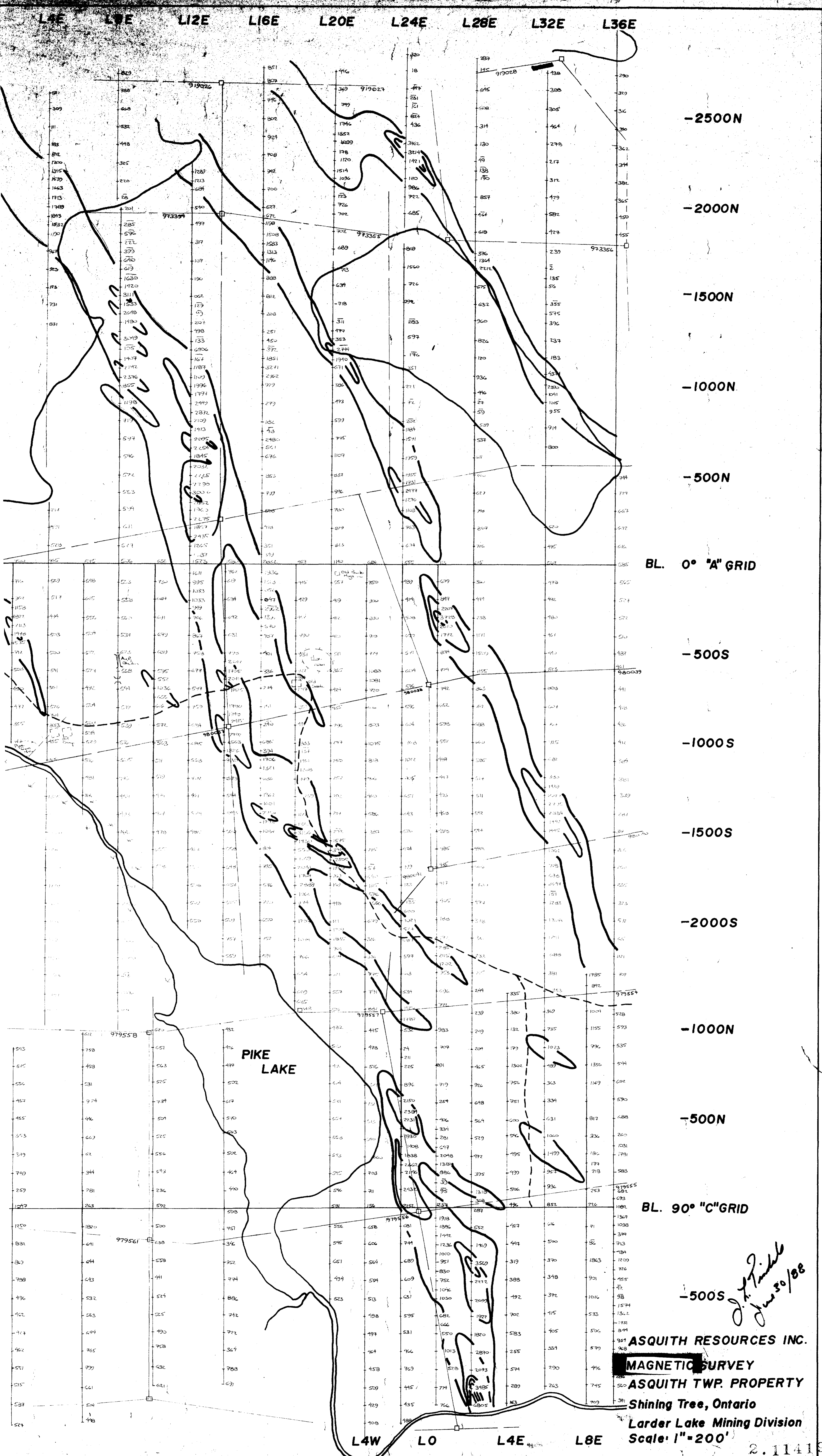
ASQUITH

M.N.R. ADMINISTRATIVE DISTRICT
GOGAMA
MINING DIVISION
LARDER LAKE
LAND TITLES / REGISTRY DIVISION
SUDBURY



Date FEBRUARY, 1985 Number

G-3206



-2500N

-2000N

-1500N

-1000N

-500N

BL. 0° 'A' GRID

-500S

-1000S

-1500S

-2000S

-1000N

-500N

BL. 90° 'C' GRID

-500S

ASQUITH RESOURCES INC.

MAGNETIC SURVEY

ASQUITH TWP. PROPERTY

Shining Tree, Ontario

Larder Lake Mining Division

Scale: 1"=200'

2.11419

J. J. P. P. P.
June 30/88

PIKE LAKE

L4W LO L4E L8E