

41P11SW0210 2.13903 ASQUITH

010

ASSESSMENT WORK REPORT

REPORT ON GEOLOGICAL MAPPING AND  
VLF-EM GEOPHYSICAL SURVEYS  
OVER A PORTION OF THE PROPERTY  
OF ASQUITH RESOURCES INC.

IN

ASQUITH TOWNSHIP, SHINING TREE AREA  
LARDER LAKE MINING DIVISION  
DISTRICT OF SUDBURY  
ONTARIO

RECEIVED  
FEB 23 1991  
MINING LANDS SECTION

quat - 63.2846  
/

January 31, 1991  
Toronto, Ontario

J. L. Tindale & Associates Inc.  
J. L. Tindale, P. Eng.



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FIGURES

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MAPS (in envelopes attached)

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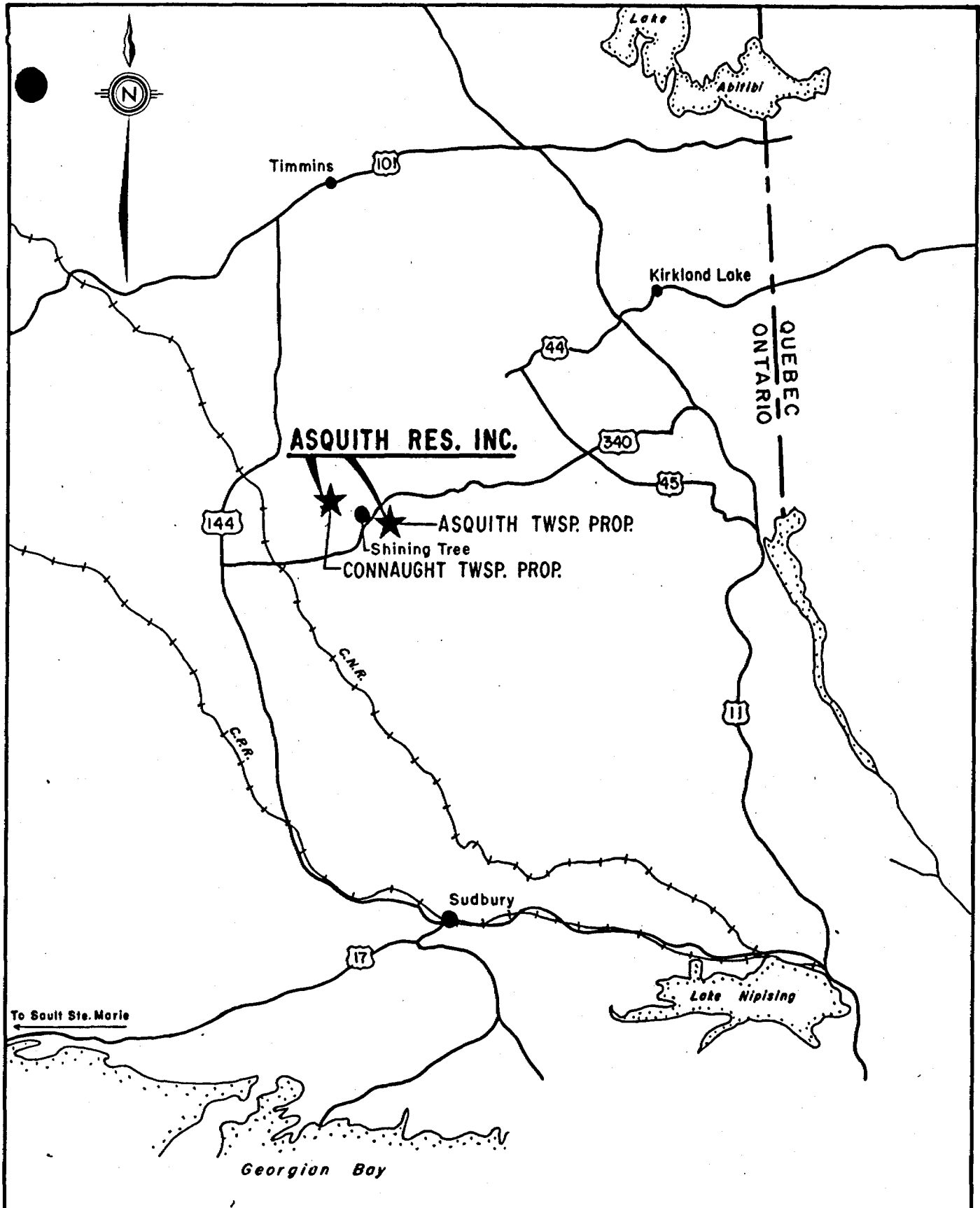
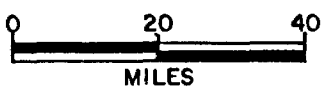


FIG. 1  
**ASQUITH RESOURCES INC.**  
**LOCATION MAP**  
 SHINING TREE AREA CLAIMS  
 ASQUITH, FAWCETT, CONNAUGHT TWSPS.  
 DISTRICT OF SUDBURY, ONTARIO



*J.P. [Signature]*  
 Jan 31/91

## INTRODUCTION

Asquith Resources Inc., with offices at 907 - 110 Erskine Avenue, Toronto, Ontario M4P 1Y4, owns a contiguous group of 72 claims in Asquith Township, in the Shining Tree Area of Ontario. The 30 claims subject of this report are located in the southeast sector of the claim block and were acquired by staking or option at various times commencing in 1987.

Lincutting, geological mapping, Magnetometer and VLF-EM surveys were carried out at various periods during the Company's tenure on the ground as claims were acquired and/or as funds were available. This report combines geological and VLF-EM surveys over the subject thirty claims.

## CLAIM DATA

<u>Claim No.</u>	<u>Acquisition Date</u>
L 973554-61 (8)	June 15, 1987
L 973348-54 (7)	June 15, 1987
L 980036-40 (5)	June 15, 1987
L 980042 (1)	June 15, 1987
L 973355-56 (2)	August 17, 1987
L 980046-49 (4)	November 1, 1988
L1046154 (1)	November 1, 1988
L1048645-46 (2)	February 6, 1989
Total	<u>30</u>

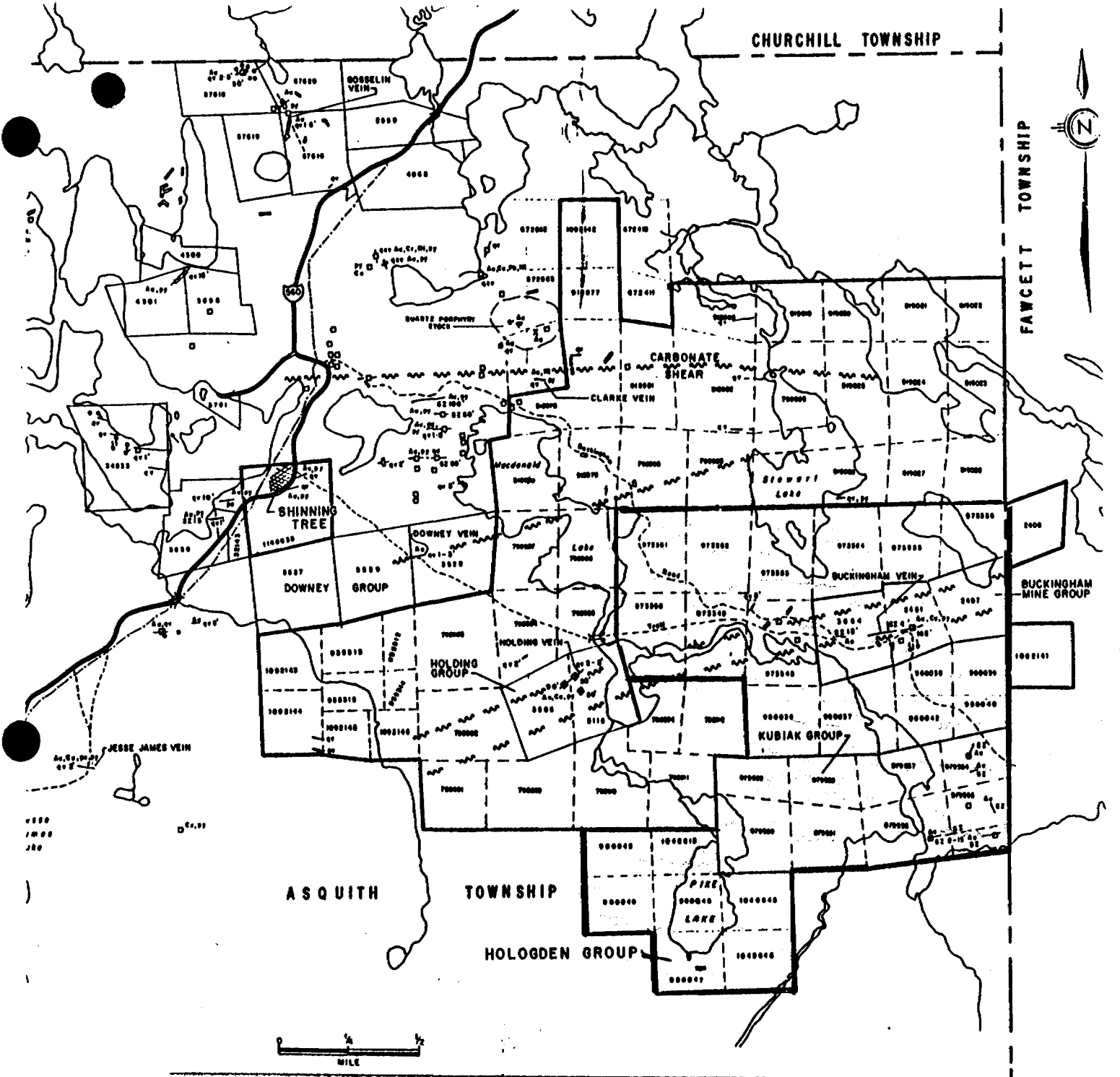
## LOCATION, TOPOGRAPHY, ACCESS

The property is located south of Highway 560 near the village of Shining Tree, Ontario. Trails suitable for ATV travel provide access to the claims. Forestry operations scheduled for the winter of 1990-91 will provide further access over the eastern areas.

The terrain is typical of the Canadian Shield and though outcrop is reasonably abundant in some areas most of the land surface is covered by glacial deposits, boreal forest, bog and lakes.

## HISTORICAL DATA

Rather than review generally the entire Shining Tree camp the writer has chosen to summarize only those occurrences present on the claims under



LEGEND	
---	Quartz Vein
-#-	Shear Zone
□ 50'	Shaft, depth in feet
~	Faults & Major Shear Zone
○	Pit
▭	Trench
⊙	D.D.Hole

*J.P.P. Miller*  
*Jan 31/91*

**ASQUITH RESOURCES INC.**  
**PROPERTY LOCATION MAP**  
**ASQUITH TOWNSHIP**  
 Revised Mar., 1989  
 MAY 1987 FIGURE 2

discussion in this report. These showings are still referred to by their historical names by Asquith when referencing various parts of the property. The reader has referred to various published reports listed in the bibliography for a fuller understanding of the historical background of the general area.

#### BUCKINGHAM MINE

This occurrence was first reported on by P. E. Hopkins in 1920 and later by F. L. Finley in 1926, and G. G. Langford in 1927 all for the O.D.M. A Prospectus of Buckingham Mines Limited published in the late 1920's and letters from Douglas A. Mutch, manager of the property in 1929 assist in piecing together the early history of the property. Later examination reports by D. K. Burke in 1936 and 1937 for Sylvanite Mines and still later independent reports by Burke in 1958 and 1959 mention later efforts at the property.

Prior to 1920 coarse gold was located on the property in a 1 to 3 foot wide quartz vein upon which a shaft inclined at 60° to the south was sunk to a depth of 85 feet. Considerable trenching and pitting along strike traced the vein for 1,000 feet to the west but only a short distance to the east. During 1929 the shaft was deepened to 167 feet and lateral work totalling approximately 300 feet was carried out at the 100 foot level. Buckingham Mines Limited went bankrupt in 1929, probably coinciding with the infamous stock market collapse.

Following a hiatus of some 30 years Central Porcupine Mines Limited explored the vein in the immediate shaft area by means of eight short drill holes along four section lines 37½ feet apart. This work explored the vein to a vertical depth of 50 feet and showed it to vary from 0.7 to 7.8 feet in width, with values ranging from 0.03 to 1.3 ounces of gold per ton. A weighted average of six intersections returned 0.28 ounces of gold per ton across 2.7 feet.

Burke in his report of 1959 mentioned a new find on the Buckingham some 1,200 feet west and north of the shaft workings. Stripped by prospector E. G. James the zone contains gold bearing quartz veins within a 12 to 15 foot wide green carbonate zone. Drilling by Central Porcupine in 1959 along two lines 40 feet apart returned values ranging from .01 to .20 ounces per ton with an overall average of 0.07 ounces of gold per ton. No work was carried out on the extension of this zone.

During January and February of 1989, the Company drilled 21 holes totalling 7,560 feet in the Buckingham Mine area. This drilling outlined the

presence of at least three parallel gold bearing shear zones enclosed in carbonate-  
mafic to intermediate volcanic host rocks. The zones trend roughly east-west  
and were traced for a drilled distance of approximately 500 feet before being  
interrupted by north trending diabase dikes.

Gold values occur with a very distinctive pale green carbonate rock  
which has been intensely sheared and injected with grey, blue and black quartz  
veining. The shear zone may be up to 20 feet wide but the central core normally  
contains the higher gold values. Finely disseminated pyrite is pervasive through-  
out the shears, increasing in quantity with intensity of shearing. Native gold  
was noted in the quartz veining as minute specks and plates along fractures.  
Tourmaline is common in the quartz.

#### KUBIAK SECTOR

P. E. Hopkins in 1920 reported much trenching and pitting on this  
property south of the Buckingham. Visible gold was noted in the bluish-grey  
quartz veins contained within hornblende, chlorite and carbonate schists.  
Similarly in 1934 H. C. Laird of the O.D.M. mentioned trenching and pitting  
activity by the owners in that year.

More recent assessment work records show the property to have been  
held by Patino and latterly Onitap who carried out cursory exploration and  
drilled a single hole under the more southerly showing on the block.

The Company drilled four holes totalling 1,392 feet on claims 979555-  
556 during January of 1989 to test a strong quartz filled shear zone striking  
approximately east-west from a pitted area adjacent to Papoose Creek. Results  
were disappointing as the intensity of shearing and quartz veining were much  
less than that encountered in surface outcrops. Accordingly assay values were  
low, the best being 0.158 ounces of gold per ton across a width of 1.0 feet in  
hole No. 4.

#### HOLOGDEN MINE PROPERTY

There is no mention in the literature of work carried out on this  
property aside from a notation on Carter's O.D.M. map of the Shining Tree  
District published in 1980 and carrying the notation "circa 1924". Fairly  
extensive pitting and trenching are evident at the location.

### GENERAL GEOLOGY

The area is underlain by Precambrian rocks which trend northwesterly and consist of a suite of mafic to felsic intrusives interlayered rarely within metasedimentary derivatives of the volcanic activity. By far, the most dominant rock type is the mafic volcanics which is predominantly black to dark green colour, fine grained and often pillowed. Interlayered with these mafic units are light green intermediate metavolcanics which are often porphyritic containing phenocrysts of blue to white quartz. Thin bands of metasediments occur in the area interbedded with the metavolcanics and these consist primarily of interflow chert, arkose and greywacke. Ultramafic intrusives grading from tale-rich serpentine bodies to dioritic and gabbroic composition also make up a portion of the interlayered volcanic sequences. Plutonic rocks of granite intrude the volcanic pile and appear as large masses bordering the area to the north, south and west. Dikes and small stocks of porphyritic granite occur within the interlayered sequence probably derived from the plutonic episode. Diabase dikes and sills with northerly trends cut all of the preceding units noted above.

### LINECUTTING PROGRAM

Initial linecutting was carried out by Geosphere Consultants of Toronto during September of 1987. This phase included Grids A and C north and east of the Seager Creek-Lake waterways. Extensions of the A grid during February of 1988 were made over lake ice of MacDonald and Stewart Lakes. Lines 16W to 32W were extended south to the Pike Lake area during this winter by local cutters in the employ of the Company. Acquisition of the Hologden claims around Pike Lake during the summer of 1988 led to the cutting of a 8 mile grid by Loma Exploration of Val D'Or during August of 1988. This was initiated by extending the C grid baseline west and utilizing a system of tie-lines to expedite coverage west of Pike Lake.

### GEOLOGICAL MAPPING

During the summer of 1988, K. W. Johnson, geologist, mapped the A grid portion of the property and the writer mapped the C grid section east of Seager Lake. Rob Cinits, geologist, mapped the area south of Seager Creek and around Pike Lake during July of 1990. Geological maps are presented with this report as Maps No. 1 & 2 at a scale of 1" = 200'.



GEOLOGY

The area covered by the mapping is predominantly underlain by fine to coarse grained amphibolite in the southwesterly portion which grades to mafic volcanic flows, often pillowed, in the northern part of the map area. Interbedded with these units are irregular and discontinuous horizons of mafic, intermediate and felsic tuffs. Crosscutting this northwesterly trending stratigraphic sequence is a series of north striking diabase dikes.

The transition from the higher metamorphic grade amphibolites to the pillowed flows is fairly abrupt and appears to follow the regional stratigraphy. The influence of the Miarmichi Batholith to the south probably accounts for the metamorphic facies transition as well as the occurrence of small dikes of quartz-feldspar and granite west of Pike Lake. The amphibolites are variable in texture and composition ranging from fine to medium grained equigranular to very coarse grained porphyritic phases with euhedral hornblende crystals up to  $\frac{1}{2}$ " in diameter within a feldspar-rich matrix. Translucent quartz-eyes up to  $\frac{1}{8}$ " across are present in some occurrences. The finer grained amphibolites tend to have a stronger foliation than the coarser porphyritic types which tend to display more idiomorphic textures. Several narrow, discontinuous bands of fine grained volcanics and tuffs were noted within the amphibolite sequence.

The mafic volcanics underly most of the area north of Pike Lake. These are dark green, fine to medium grained flows, massive to pillowed and moderately foliated parallel to the northwesterly trend of the stratigraphy. Pillows are usually deformed with thin chlorite-rich selvages and display north to NNE facing tops.

Felsic flows and quartz-eye tuffs are present throughout the mapped area. They range in thickness from less than 10 feet to 200 feet and are most commonly hosted within the amphibolite schists. The quartz-eye tuffs are moderately foliated with 1-5% translucent to smokey or blue quartz-eyes ranging from  $\frac{1}{8}$ " to  $\frac{1}{16}$ " in diameter in a fine grained felsic ground mass. In a few localities lapilli and fine grained tuff units were mapped, neither of which are very extensive and are minor features of the felsic sequence.

An ultramafic intrusive is known to be present underlying the Buckingham Mine area where it was noted in drill core. This is a talc-rich peridotite unit, riddled with irregular quartz-carbonate veinlets. Only a single outcrop of this recessively weathering unit was located on the map sheets, this being on the east shore of Stewart Lake on claim 973354. It is believed this dike or sill strikes northwesterly as a similar unit has been mapped on adjoining claims to the north.

Interbedded steeply dipping sediments and oxide iron formation were mapped along the steep side hill on the north side of Seager Creek. These are fine grained greywackes with thin iron formation interbeds which appear to trend northwesterly.

The dikes range in thickness from a few inches to over 200 feet with rapid variation along strike. Commonly they are fine to medium grained equigranular units though in some cases are porphyritic with light green to yellow phenocrysts of olivene, characteristic of the Matachewan phase diabase. The dikes tend to weather recessively and therefore occur as prominent ridges.

### STRUCTURE

The majority of the rocks, aside from the diabase, display a moderate foliation which parallels the stratigraphy and strikes  $320^{\circ}$  -  $350^{\circ}$  east of Pike Lake and swings to  $270^{\circ}$  -  $300^{\circ}$  to the north of Seager Creek. Dips are moderate to steep to the south.

Two strong areas of faulting have been interpreted from the mapping. The most southerly parallels Papoose Creek along the southern claim boundary and the second is mirrored by the trace of Seager Creek. The Seager Creek zone is characterized by a zone of high VLF-EM field strengths and subordinate crossovers. Associated with the Seager Creek structure are zones of moderate carbonate alteration, silicification, quartz veining, chloritization and fine disseminated pyrite. Sericite and fuchsite occur locally. There does not appear to be any significant offsetting of the stratigraphy by these faults.

Shearing, intense, relatively narrow, carbonate-rich with sericite, chlorite and quartz veining is noted at a number of localities within the map area. This type of shear usually is enriched in gold values and is most prominently exposed in the Buckingham Mine area where stripping during 1990 exposed a sinuous, highly folded shear over a distance of over 1,600 feet. These shears vary in width from 1 foot to 10 feet, are highly contorted internally and exhibit boudinaged quartz as well as fractured quartz veining throughout.

### MINERALIZATION/AREAS OF INTEREST

The mapped area is dotted with a multitude of old pits, trenches, pits and stripped areas many of which are overgrown or caved. Wherever possible these showings were sampled in an attempt to identify the gold contact. Sampling results are noted on the accompanying maps in ppb. Some of the more interesting

L 57 W

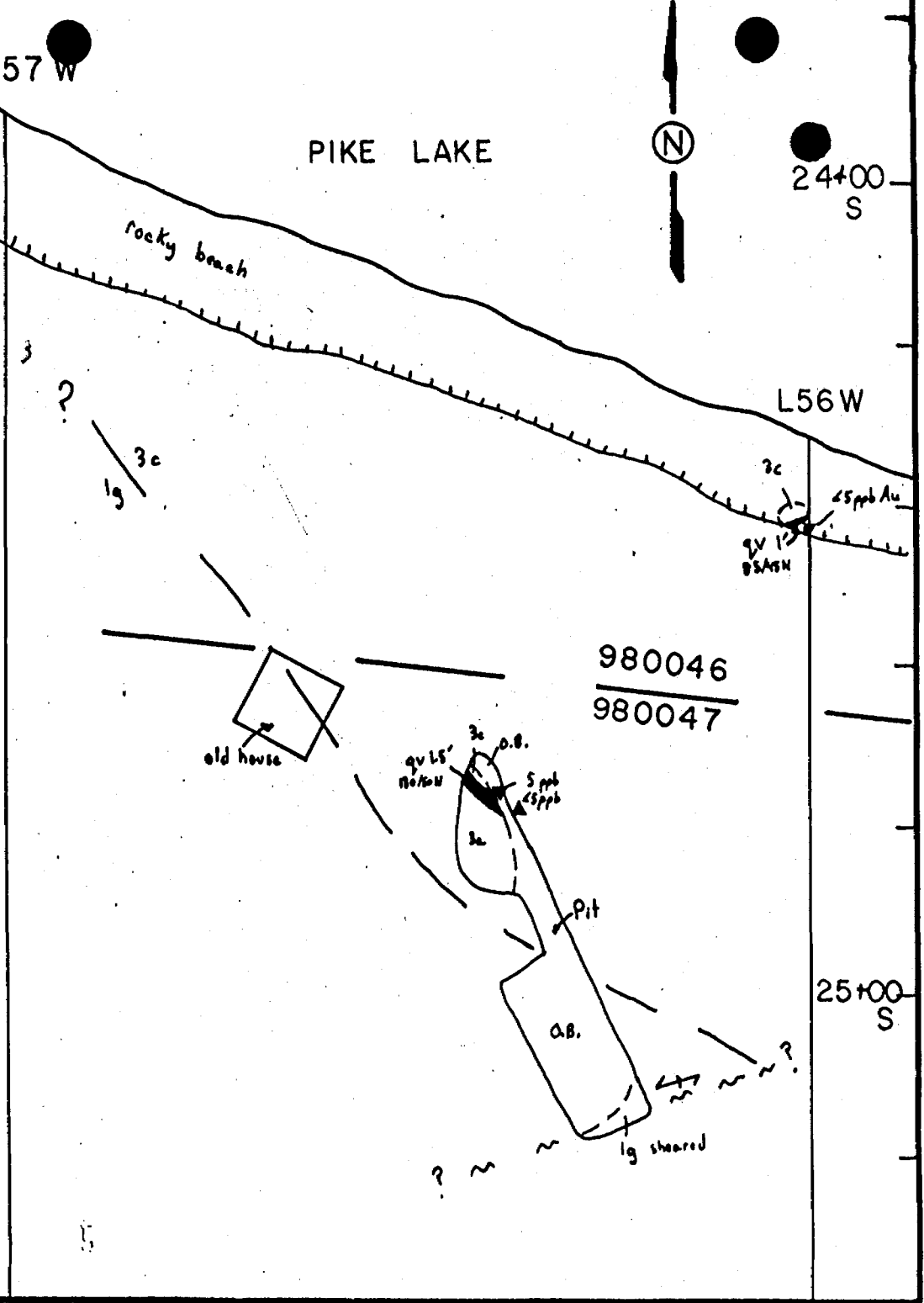
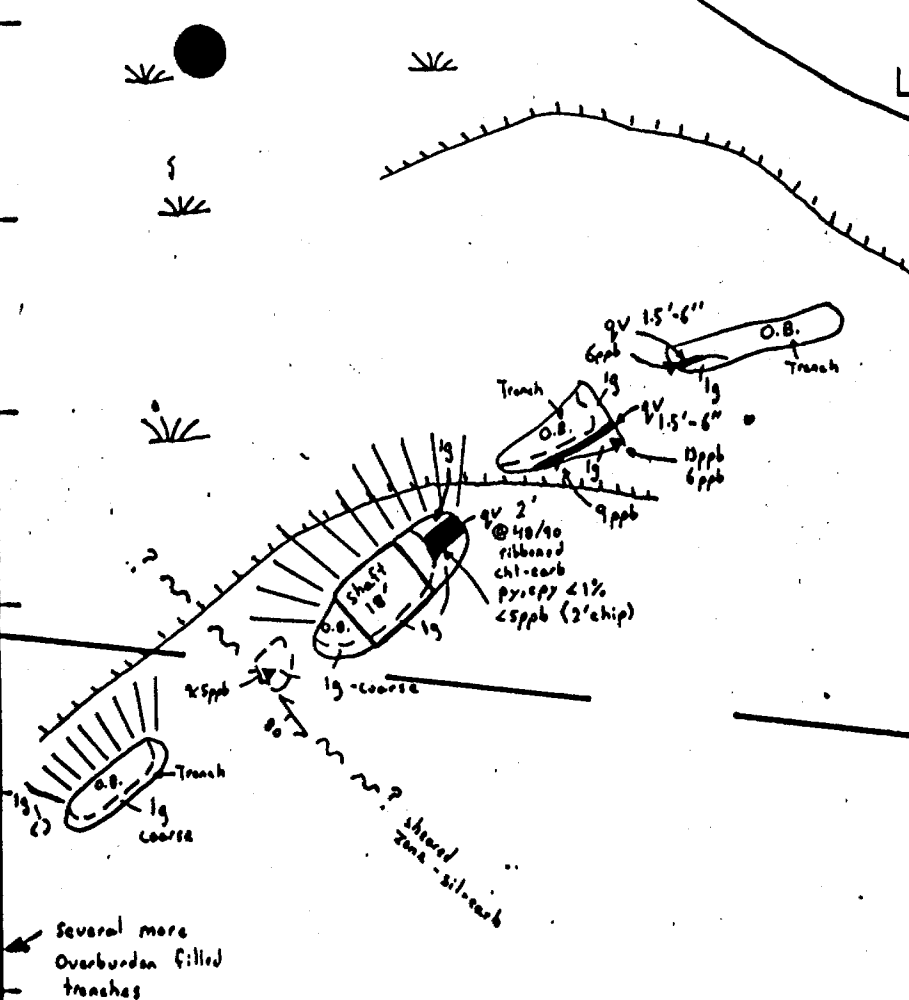
PIKE LAKE

N

24+00  
S

L56W

rocky beach



980046  
980047

25+00  
S

### HOLOGDEN SHAFT AREA

- O.B. - Overburden
- lg - Amphibolite
- 3c - Felsic quartz-rye tuff
- qv - quartz vein
- ~ ~ - Fault/sheared zone

▽ - sample location  
Au ppb

*J. L. Tumbala*  
JAN. 3/91

scale 1" = ~~50~~ 20'

FIG. 3

areas examined are discussed in point form below.

a) Hologden Shaft Area

See 1"=20' detail - Fig. 3. The area is located along the south shore of Pike Lake. A series of trenches, pits and an 18 foot deep shaft exposes a 2"-6" wide smokey quartz vein for about 40 feet in a southwesterly direction away from the lakeshore. The vein is hosted by lightly carbonatized, chlorite-rich amphibolite schists with traces of finely disseminated pyrite and chalcoppyrite evident in the vein and wall rock. Seven grab and/or chip samples from the vein area failed to return significant values. Further work is not planned.

b) Kubiak Area

Grid C at L2E, 8+00N - a series of blue-grey quartz veins are contained within a 10 foot wide intensely sheared east-west carbonate-rich structure mineralized with up to 2% disseminated pyrite. The main "leader" is 12"-15" wide blue quartz on which a series of pits and trenches have been sunk along a strike of 50 feet. To the east the exposure enters a swamp, to the west heavy overburden.

Sampling of the exposure adjacent to the swamp assayed 584 ppb across 3.5 feet; 901 ppb across 4.0 feet and 1,137 ppb across 2.0 feet; in continuous chip samples. The zone is visually very similar in occurrence to the Buckingham shear.

c) Buckingham Mine Area

The prime structural feature, and the locus of the alteration and the gold mineralization across the area of interest is the Buckingham Shear. Stripping has exposed this prominent break, intermittently for a distance of 1,600 feet in a roughly east-west direction. Previous drilling to the east may have added a further 400 feet to this length.

The Buckingham Shear is a zone varying in width from 1 foot up to 10 feet of intensely schistose, crenulated, carbonate-rich, pale green mafic volcanic along which bluish-grey quartz stringers and veins have been injected which carry free gold. Finely disseminated pyrite is distributed throughout the shear with rare sightings of chalcoppyrite. Chlorite and sericite alteration products are present within the shear and along fractures in the veining. The quartz may form wide sections which as at the Buckingham Shaft where the vein is over 3.5 feet wide or as narrow, boudinage-like fillings, as along the shear planes. Wide sections of quartz are also evident at 4S on line 8E where the shear has been tightly isoclinally folded. Tourmaline is a common constituent of the quartz.

The Buckingham Shear is anything but a straight-line break. Rather it is a sinuous, ductile-appearing zone given to rapid changes in strike though carrying a general east-west trend. Secondary splays branch from the main break but these appear limited in strike extent and tend to be less well mineralized and often carry white quartz veining. The main break where it is folded plunges westerly at approximately 75° as do the crenulations within the shear. Possibly this plunge may be a guide to tracing the depth extension of the gold bearing shoots.

The entire shear is enriched in gold mineralization. A total of 301 channel samples were cut along the shear and its branches utilizing a Stihl diamond saw during late August. Two areas of significant gold values were confirmed, these being located at 4S on line 8E and immediately west of the Buckingham Shaft. The former has gold values distributed along a strike length of 150 feet coincident with folding of the shear which has proliferated a marked increase in blue quartz. Assay values up to 1.94 ounces gold per ton across 2.0 feet were returned from this area. A fifty foot trench west of the shaft returned values up to 0.69 ounces per ton across 6.0 feet from this strongly veined area.

All values greater than 1,000 ppb were reassayed with the variable results strongly indicating the expected influence of free gold in the system. From a total of 74 samples with results over 1,000 ppb, 30 samples reassayed higher on average by 35.7% and 44 samples reassayed lower by 23%. This so called "nugget effect" must be addressed in future programs.

The sampling program while verifying that the Buckingham Shear is enriched in gold also indicated that concentrations of quartz veining appears necessary for the shear to approach economic interest. The quartz need not be in the form of a massive vein to carry significant values. Thin, boudinaged veinlets, also carry across significant widths provided they are concentrated to at least 20% of the shear zone. Possibly the stronger portion of the shear occurs at 12E near the Buckingham Road but quartz is noticeably a minor constituent and values were correspondingly lacking. The nature of the shear is such, however, that an increase in quartz content could occur within a short distance laterally or vertically.

There appears to be little doubt that the Buckingham Shear is a significant gold bearing structure. The zone appears to continue to the west past the stripped area and to the east as verified by stripping and drilling. It is possible to visualize the structure having a lateral strike of at least double the present 1,600 feet.

Future evaluation of this structure should include tracing the zone through the gaps in stripping particularly between the Buckingham Shaft area and the more westerly stripped area. This may best be accomplished by a series of shallow closely spaced holes to trace the break laterally with followup deeper holes to verify the vertical extent. A similar program to the east and west is warranted.

VLF-EM SURVEY

The electromagnetic data was collected using a CRONE Radem VLF-EM receiver utilizing a transmitter station located in Cutler, Maine for the majority of the survey, in an effort to define easterly-trending conductive zones. A transmitter station located in Annapolis, Maryland was utilized to outline north-trending conductors, the data recorded from traverses along the baseline.

The Radem is capable of receiving low frequency signals from numerous communication broadcast stations positioned throughout the world, from distances of up to 5,000 miles from the transmitter unit. Three parameters are capable of being read with the Radem unit:

DIP ANGLE in degrees of the magnetic field component, from the horizontal, of the major axis of the polarization ellipse. Detected by a minimum on the field strength meter and read from an inclinometer with an accuracy of  $\pm\frac{1}{2}$  degrees.

FIELD STRENGTH (total or horizontal) of the magnetic component of the VLF field, (amplitude of the major axis of the polarization ellipse). Measured as a percent of normal field strength established at a base station. Accuracy  $\pm 2\%$  dependent on the signal. Meter has two ranges: 0 to 300% and 0 to 600%.

QUADRATURE component of the magnetic field, perpendicular in direction to the resultant field, as a percent of the normal field strength, (amplitude of the minor axis of the polarization ellipse). This is the minimum reading of the Field Strength meter obtained when measuring the dip angle. Accuracy  $\pm 2\%$ .

The surveys were carried out by Brian Erickson and Gerry LaFortune, geophysical technicians from Sudbury in the employ of J. L. Tindale & Associates Inc. The bulk of the surveys were done in March of 1988 with the areas around Pike Lake and west of Seager Lake covered during October of 1988. Both the Dip Angle and the Field Strength readings were recorded during the survey and are presented on Maps 3 & 4 accompanying this report. In total 1,720 station-readings were recorded yielding total coverage of the claim block.

There are numerous conductors present on the property but many of these appear due to surficial deposits as they occupy low swampy areas and are characterized by discontinuous strike length and low field strengths. Four conductors appear to have some validity and are annotated as A to D inclusive on the accompanying maps.

CONDUCTOR A - This east-west fracture is located on claim 980038 north of the Buckingham Mine and is characterized by strong crossovers and field strengths. The field strengths continue to both the east and west possibly indicating extensions. The anomaly is overlain by alder swamp and underlain in part by diabase dike. A mineralized conductor would not be expected in the diabase and the zone is interpreted as a fault structure possibly part of the Seager Creek system.

CONDUCTOR B - Similar in amplitude and strength to "A" and 400 feet to the southeast thereof, this fracture may be a branch fault or a parallel structure. The area is overlain by overburden with no outcrop.

CONDUCTOR C - This anomaly crosses claims over the southern portion of MacDonald Lake on a southwesterly trend and is characterized by a topographic low and strong crossovers and field strengths. It has been interpreted as a fault zone, part of the Seager Creek zone and as such may connect with Conductor A. Increased shearing, carbonatization and veining have been noted adjacent to the presumed trace of this structure.

CONDUCTOR D - This anomaly has been selected to illustrate the effect of lake-bottom sediments upon the instruments. The conductor occupies the length of Caput Lake and though field strengths are high the crossovers are relatively subtle. The lake is shallow and filled with black organic ooze.

#### DISCUSSION OF RESULTS

Geological mapping and accompanying sampling has disclosed the presence of two distinct stratigraphies on the mapped area. The southwestern portion is underlain by amphibolites which grade upward to the northeast into mafic pillowed lavas and flows. Quartz veining is common across the property but gold values only appear in significant amounts when associated with intense ductile shears in carbonate-rich mafic pillowed lavas and flows, as at the Buckingham and the Kubiak showings. Without these intense shears the veins appear to occupy brittle fracture patterns with limited strike-length and low gold values.

The VLF-EM survey, though mainly of little economic interest, did confirm the trace of a strong fault system along Seager Creek and laterally to the east and west.

Respectfully submitted,

J. L. TINDALE & ASSOCIATES INC.

*J. L. Tindale*  
J. L. Tindale  
President

— qualifications  
63.2846

January 31, 1991  
Toronto, Ontario



41P11SW0210 2.13903 ASQUITH

900

Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des Mines

Mining Lands Section  
4th Floor, 159 Cedar Street  
Sudbury, Ontario  
P3E 6A5

Telephone: (705) 670-7264  
Fax: (705) 670-7262

Your File: W. 9108.00033  
Our File: 2.13903

May 15, 1991

Mining Recorder  
Ministry of Northern Development  
and Mines  
4 Government Road, East  
Kirkland Lake, Ontario  
P2N 1A2

Dear Sir/Madam:

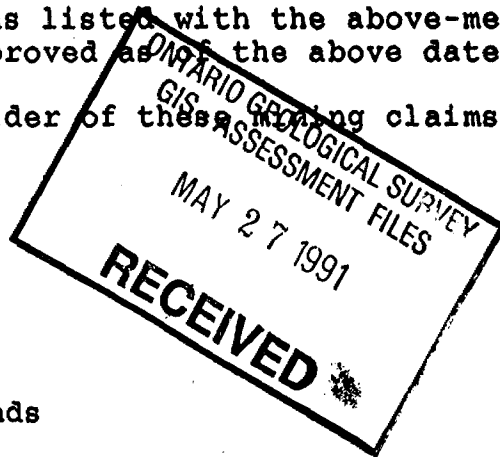
RE: Notice of Intent dated April 15, 1991 for Geological  
and Geophysical (Electromagnetic) Surveys on mining  
claims L. 973348 et al. in the Township of Asquith.

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,

Ron. C. Gashinski,  
Provincial Manager, Mining Lands  
Mines & Minerals Division



DM/jl

cc: Mr. Asquith Resources Inc.  
Toronto, Ontario

Resident Geologist  
Cobalt, Ontario

✓ Assessment Files Office  
Toronto, Ontario





AMENDED

Record Holder: Asquith Resources Inc.

Ownership or Area: Asquith Township

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<b>Geophysical</b>	
Electromagnetic <u>17.9</u> days	L.973348 to 356 incl.
Magnetometer _____ days	979554 to 561 incl.
Radiometric _____ days	980036 to 040 incl.
Induced polarization _____ days	980042
Other _____ days	980046 to 049 incl.
	1046154
	1048645-46
<b>Section 77 (10)</b> See "Mining Claims Assessed" column	
Geological <u>17.1</u> days	
Geochemical _____ days	
Men days <input type="checkbox"/> Airborne <input type="checkbox"/>	
Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Credits have been reduced because of partial coverage of claims.	
<input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	

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(10) - 80.



M.L.

**DOCUMENT No.**  
W 9108.00033

**Instructions**

- Please type or print.
- Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.
- If number of mining claims traversed exceeds space on this form, attach a list.
- Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch:

**Report of Work**  
(Geophysical, Geological and Geochemical Surveys)

**Mining Act**

Type of Survey(s) <b>GEOLOGICAL; VLF-EM</b>	Mining Division <b>LARGER LAKE</b>	Township or Area <b>ASQUITH TOWNSHIP</b>
Recorded Holder(s) <b>ASQUITH RESOURCES INC.</b>	<b>2.13903</b>	Prospector's Licence No. <b>T 4759</b>
Address <b>907-110 ERSKINE AVE TORONTO ONTARIO M4P1Y4</b>		Telephone No. <b>416-481-5781</b>
Survey Company <b>J.L. TINDALE &amp; ASSOCIATES INC.</b>		
Name and Address of Author (of Geo-Technical Report) <b>J.L. TINDALE 907-110 ERSKINE AVE TORONTO ONTARIO M4P1Y4</b>		Date of Survey (from & to) Day   9   87   Day   8   90 Mo.       Mo.       Yr.       Yr.

**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	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	20
	Geochemical	

Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Other	
	Geological	
	Geochemical	

Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Other	

**Mining Claims Traversed (List in numerical sequence)**

Mining Claim		Mining Claim		Mining Claim	
Prefix	Number	Prefix	Number	Prefix	Number
L	9733 48	L	980036		
L	9733 49		980037		
L	9733 50		980038		
L	9733 51		980039		
L	9733 52		980040		
L	9733 53		980042		
L	9733 54		980046		
L	9733 55		980047		
L	9733 56		980048		
L	9795 54		980049		
L	9795 55		1048645		
L	9795 56		1048646		
L	9795 57		1048647		
L	9795 58		1048648		
L	9795 59				
L	9795 60				
L	9795 61				

**RECEIVED**

**FEB 14 1991**

number of mining claims covered by this report is work.

**30**

**Certification Verifying Report of Work**

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

Name and Address of Person Certifying  
**J.L. TINDALE 907-110 ERSKINE AVE TORONTO ONTARIO M4P1Y4**

Telephone No. **416 481 5781** Date **JAN. 21 1991** Certified By (Signature) *J.L. Tindale*

**For Office Use Only**

Total Days Cr. Recorded <b>1200</b>	Date Recorded <b>Jan 23/91</b>	Mining Recorder <i>[Signature]</i>
	Date Approved as Recorded <i>See revised work statement</i>	Provincial Manager, Mining Lands <i>[Signature]</i>

Received Stamp **RECEIVED LARGER LAKE MINING DIVISION JAN 23 1991 TIME 10:55am**



2.13903

File \_\_\_\_\_

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) Geological and Geophysical
Township or Area Asquith Township
Claim Holder(s) Asquith Resources Inc.
Survey Company J.L. Tindale & Associates Inc.
Author of Report J.L. Tindale
Address of Author 907 - 110 Erskine Ave., Toronto, Ont. M4P1Y4
Covering Dates of Survey Sept. 1987 - Jan. 31, 1991
Total Miles of Line Cut 33 miles

MINING CLAIMS TRAVERSED
List numerically
L 973348 L 980042
L 973349 L 980046
L 973350 L 980047
L 973351 L 980048
L 973352 L 980049
L 973353 L1048645
L 973354 L1048646
L 973355 L1046154
L 973356
L 979554
L 979555
L 979556
L 979557
L 979558
L 979559
L 979560
L 979561
L 980036
L 980037
L 980038
L 980039
L 980040
TOTAL CLAIMS 30

SPECIAL PROVISIONS CREDITS REQUESTED
Geophysical
- Electromagnetic 20
- Magnetometer
- Radiometric
- Other
Geological 20
Geochemical

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)
Magnetometer Electromagnetic Radiometric
DATE: Jan. 31, 1991 SIGNATURE: J.L. Tindale

Res. Geol. Qualifications

Previous Surveys
Table with columns: File No., Type, Date, Claim Holder

OFFICE USE ONLY

If space insufficient, attach list

RECEIVED

FEB 08 1991

MINING LANDS SECTION

**GEOPHYSICAL TECHNICAL DATA**

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

Number of Stations 1720 Number of Readings 1720  
Station interval 50' and 100' Line spacing 200' and 400'  
Profile scale 1" = 20'  
Contour interval \_\_\_\_\_

**MAGNETIC**

Instrument \_\_\_\_\_  
Accuracy – Scale constant \_\_\_\_\_  
Diurnal correction method \_\_\_\_\_  
Base Station check-in interval (hours) \_\_\_\_\_  
Base Station location and value \_\_\_\_\_  
\_\_\_\_\_

**ELECTROMAGNETIC**

Instrument Crone Radem VLF-EM  
Coil configuration N/A  
Coil separation N/A  
Accuracy N/A  
Method:  Fixed transmitter  Shoot back  In line  Parallel line  
Frequency Cutler, Maine (specify V.L.F. station)  
Parameters measured Dip angle and field strength

**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. 163003 |        |
| M.N.R. RESERVE                                 |           |      | S.R.O. 163005 |        |
| WASTE DISPOSAL                                 | 2/19/81   |      | S.R.O.        |        |
| WITHDRAWAL SEC 36/80 MINING ACT, ORDER W9/81   |           |      |               |        |
| 28/8/81 SURFACE RIGHTS ONLY WITHDRAWN          |           |      |               | 188517 |
| WITHDRAWAL SEC. 36/80 MINING ACT ORDER W13/86  |           |      |               |        |
| 30/10/86 SURFACE-MINING RIGHTS WITHDRAWN       |           |      |               |        |
| WITHDRAWAL SEC. 36/80-MINING ACT, ORDER W27/86 |           |      |               |        |
| 09/04/86, SURFACE + MINING RIGHTS WITHDRAWN    |           |      |               |        |
| 0-08/89L OPENS PART OF W-27/86                 |           |      |               |        |
| 0-08-90 NR OPENS PART OF W-27/86               |           |      |               |        |
| 0-L22-90 NR OPENS PART OF W27/86               |           |      |               |        |

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

SAND and GRAVEL

- M.T.C PIT 489
- M.T.C GRAVEL PIT NO.3C-14
- GRAVEL PIT FILE 124425
- M.T.C PIT 3C-16
- M.T.C GRAVEL PIT NO.3C-15

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.

NOTICE OF FORESTRY ACTIVITY  
THIS TOWNSHIP / AREA FALLS WITHIN THE \_\_\_\_\_



200

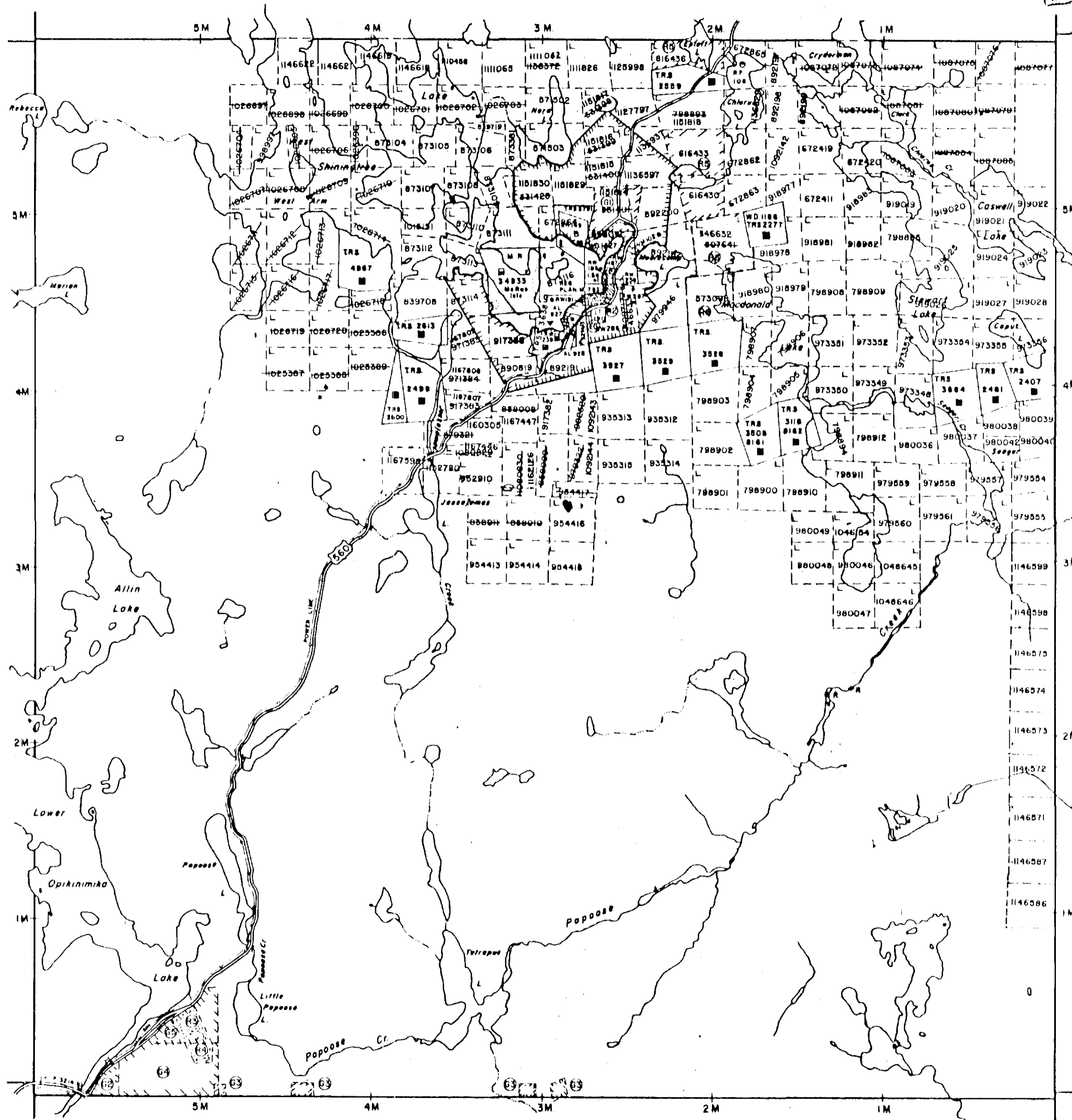
TOWNSHIP SUBJECT TO FORESTRY OPERATIONS

Churchill Twp.

GEOLOGY REFERENCE - COBALT  
RESIDENT GEO.

JAN 29 1991

LARDER LAKE  
MINING RECORDER'S OFFICE



Miramichi Twp.

Fawcett Twp.

Sheard Twp.

LEGEND

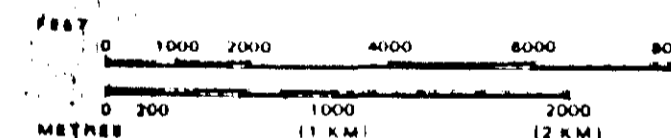
- HIGHWAY AND ROUTE No
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIPS, BASE LINES, ETC
- LOTS, MINING CLAIMS, PARCELS, ETC
- UNSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION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



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

Ministry of Natural Resources  
Land Management Branch  
Ontario

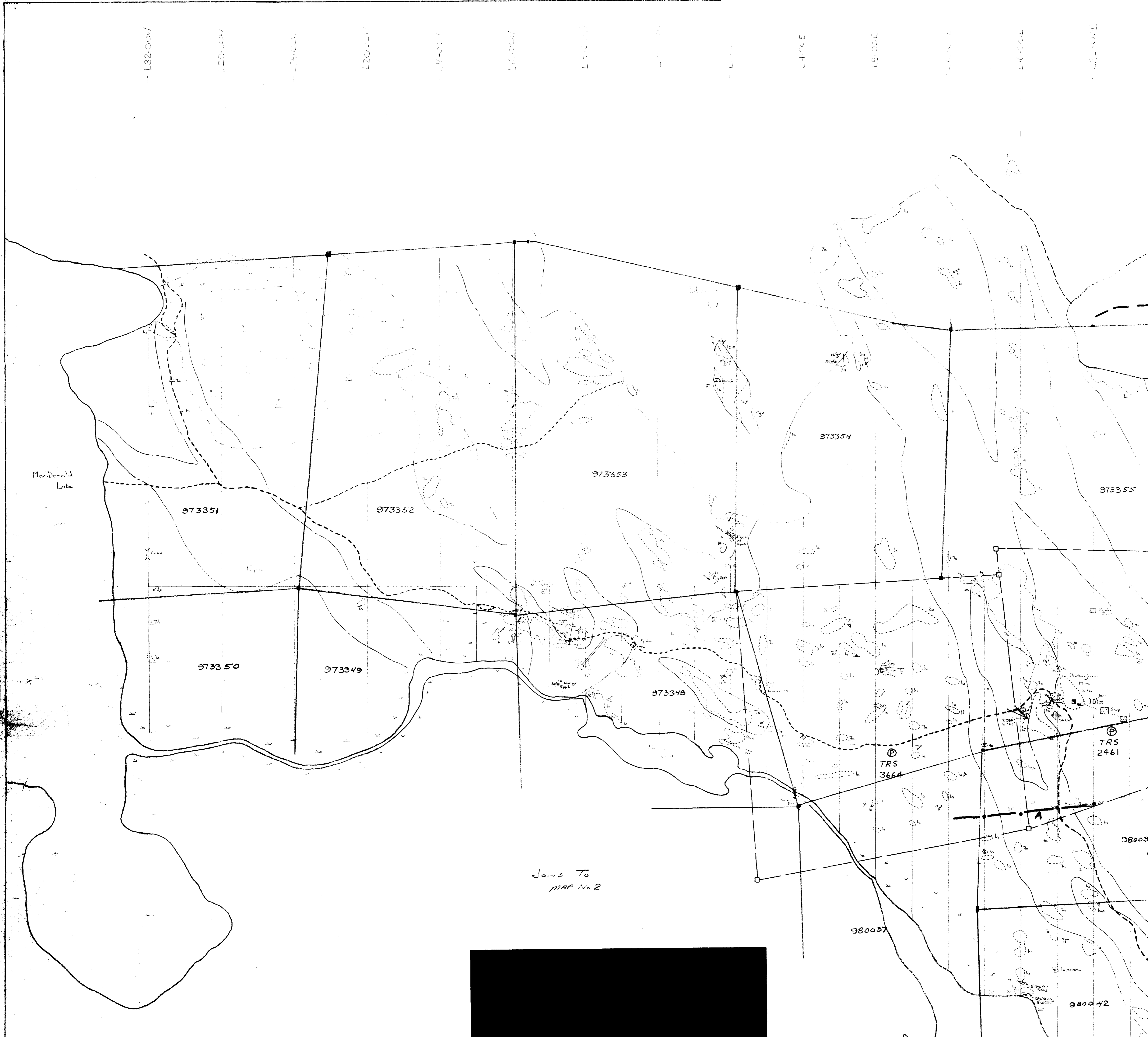
Date FEBRUARY, 1985

Number:

G-3206

CONSULTED FEB. 28, 1990

132-000V  
128-000V  
124-000V  
120-000V  
116-000V  
112-000V  
108-000V  
104-000V  
100-000V  
96-000V  
92-000V  
88-000V  
84-000V  
80-000V



ASQUITH RESOURCES INC.  
LEGEND

- [7] Mafic Intrusive Rocks
  - 7a. Diabase
  - 7b. Diabase, granophyric
  - 7c. Diabase, porphyritic
  - 7d. Olivine Diabase
- [6] Felsic to Intermediate Intrusive Rocks
  - 6a. Quartz Porphyry
  - 6b. Quartz Feldspar Porphyry
  - 6c. Granite, massive, fine to medium grained
  - 6d. Aplite
  - 6e. Syenite
- [5] Ultramafic Intrusive Rocks
  - 5a. Serpentine
  - 5b. Diorite
  - 5c. Gabbro
- [4] Metasediments
  - 4a. Chert
  - 4b. Sulfide Iron Formation
  - 4c. Oxide Iron Formation
  - 4d. Argillites
  - 4e. Graywacke
  - 4f. Arkose
- [3] Felsic Metavolcanics
  - 3a. Flows, massive
  - 3b. Flows, porphyritic, foliated
  - 3c. Tuffs
- [2] Intermediate Metavolcanics
  - 2a. Flows, massive
  - 2b. Flows, pillowed
  - 2c. Tuffs
  - 2d. Agglomerate
- [1] Mafic Metavolcanics
  - 1a. Flows, massive, fine-medium grained
  - 1b. Flows, massive, coarse-grained
  - 1c. Pillowed Flows
  - 1d. Flows, porphyritic
  - 1e. Flows, foliated
  - 1f. Tuffs
  - 1g. Amphibolite
  - 1h. Chlorite Schist
  - 1i. Flows, silicified, carbonized
  - 1j. Pillow Breccia
  - 1k. Trachyte

- Alteration**
- sil - silica
  - carb - carbonate
  - k - potassium
  - ser - sericite
  - br - brecciated
  - au - gold
  - py - pyrite
  - cpy - chalcopyrite
  - mt - magnetite
- Symbols**
- X - Area of bedrock outcrop
  - - Contact - inferred
  - - - - - Contact - known
  - ~ ~ ~ - Foliation - dip indicated, vertical
  - ~ ~ ~ - Pillowed lava flow - top direction indicated
  - - - - - Jointing - dip indicated
  - ~ ~ ~ - Fault/shear zone
  - ~ ~ ~ - Fault/shear zone - inferred
  - - Trench, Pit
  - - Creek - flow direction indicated

- Quartz vein
- Shaft
- Dump Pile
- Sample location - Au/pp
- Claim Post, unlocated
- Claim Line
- Swamp
- Slope Change
- A.T.V. Trail
- Footpath

MAP No 0  
2.13903

**ASQUITH RESOURCES INC.**

**GEOLOGY MAP**

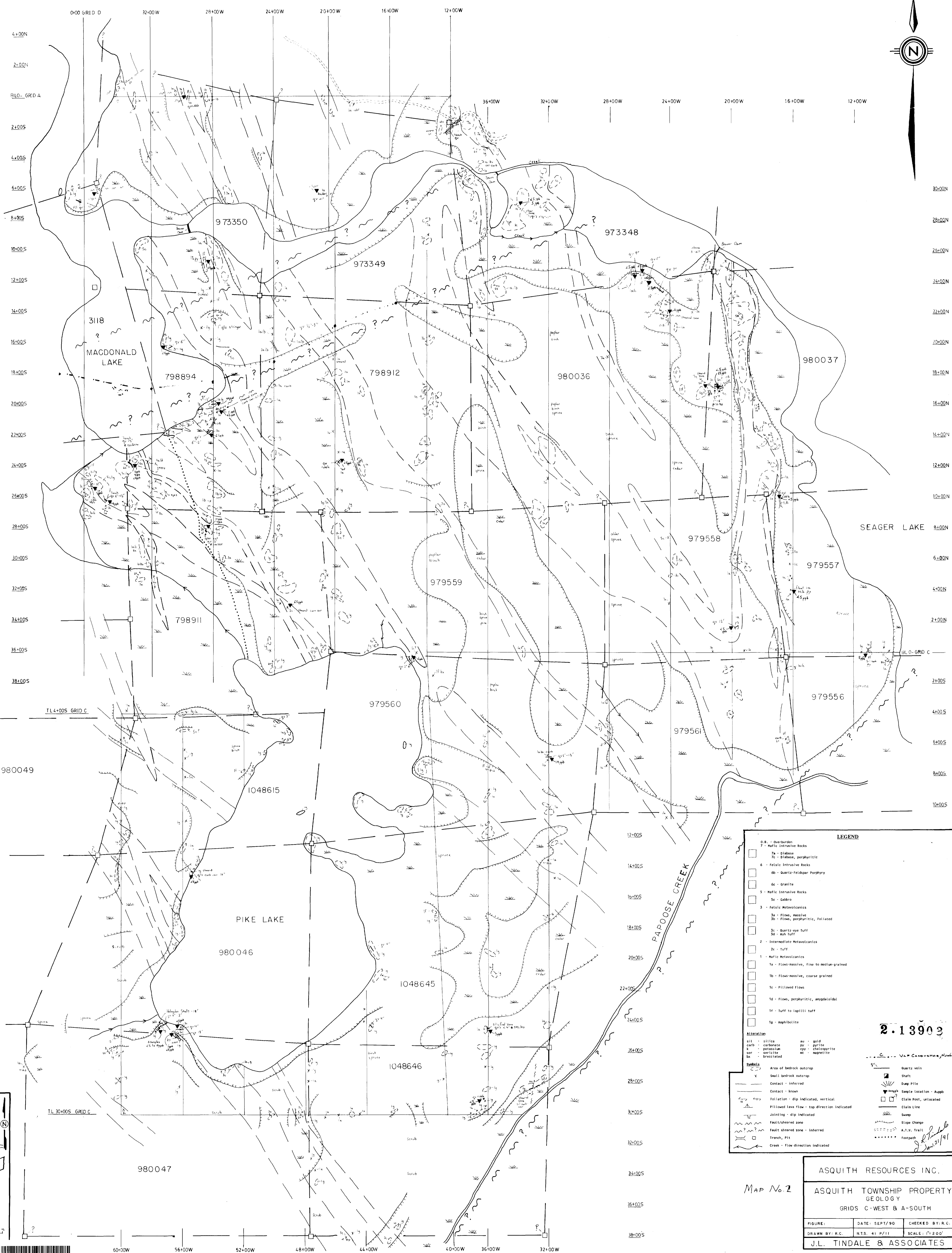
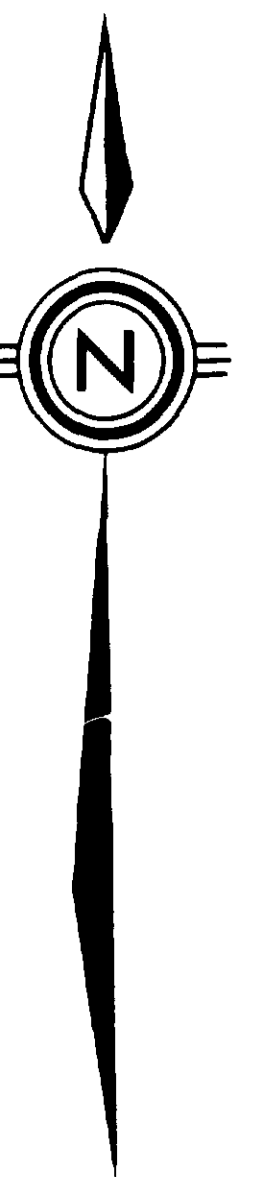
**BUCKINGHAM MINE PROPERTY**

Grid A' & C"  
Asquith Township  
Sharing Tree, Ontario

Scale 1:200  
Cadastral R.V.S.  
L.L. Macdonald & Associates Inc.







**LEGEND**

0.8 - Overburden	7 - Mafic Intrusive Rocks
7a - Diabase	7c - Diabase, porphyritic
6 - Felsic Intrusive Rocks	6b - Quartz-Feldspar Porphyry
6c - Granite	
5 - Mafic Intrusive Rocks	5c - Gabbro
3 - Felsic Metavolcanics	3a - Flow, massive
3b - Flow, porphyritic, foliated	3c - quartz-eye tuff
3d - Ash tuff	
2 - Intermediate Metavolcanics	2c - Tuff
1 - Mafic Metavolcanics	1a - Flow-massive, fine to medium-grained
1b - Flow-massive, coarse grained	1c - Pillowed flows
1d - Flows, porphyritic, amygdaloidal	1f - Tuff to lapilli tuff
1g - Amphibolite	

**Alteration**

sil - silica	au - gold
carb - carbonate	py - pyrite
k - potassium	cpv - chlorite
ser - sericite	mt - magnetite
ba - barite	

**Symbols**

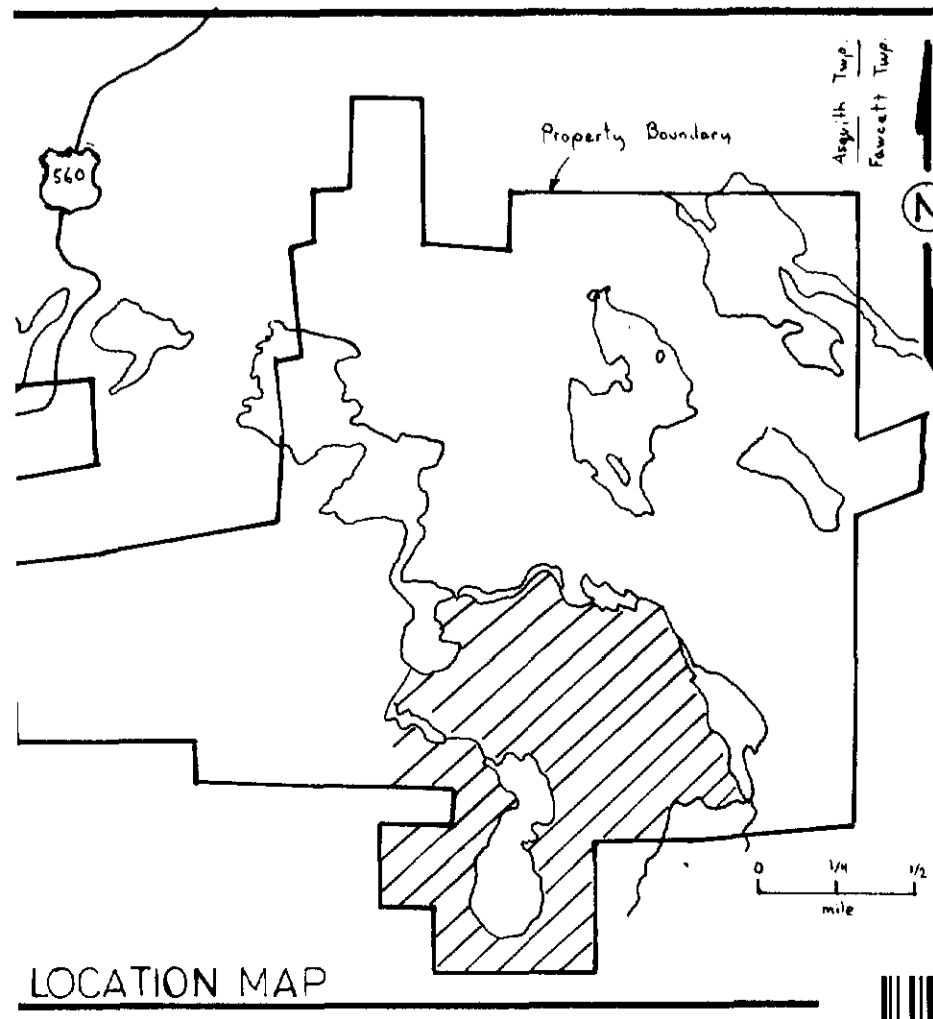
Area of bedrock outcrop	Quartz vein
Small bedrock outcrop	Shaft
Contact - inferred	Dump pile
Contact - known	Sample location - Assay
Foliation - dip indicated, vertical	Claim Post, unlocated
Pillowed lava flow - top direction indicated	Claim Line
Jointing - dip indicated	Slope Change
Fault/Shear zone - inferred	A.T.V. Trail
Trench, Pit	Footpath
Creek - flow direction indicated	

**2.13903**

*D. J. Tindale*  
2/21/91

ASQUITH RESOURCES INC.  
 MAP No. 2  
 ASQUITH TOWNSHIP PROPERTY  
 GEOLOGY  
 GRIDS C-WEST & A-SOUTH

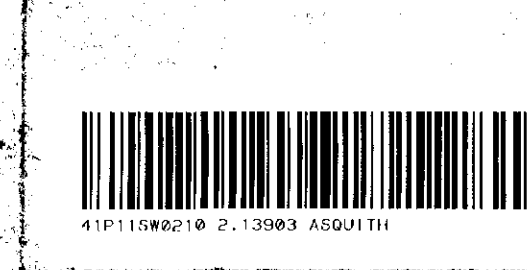
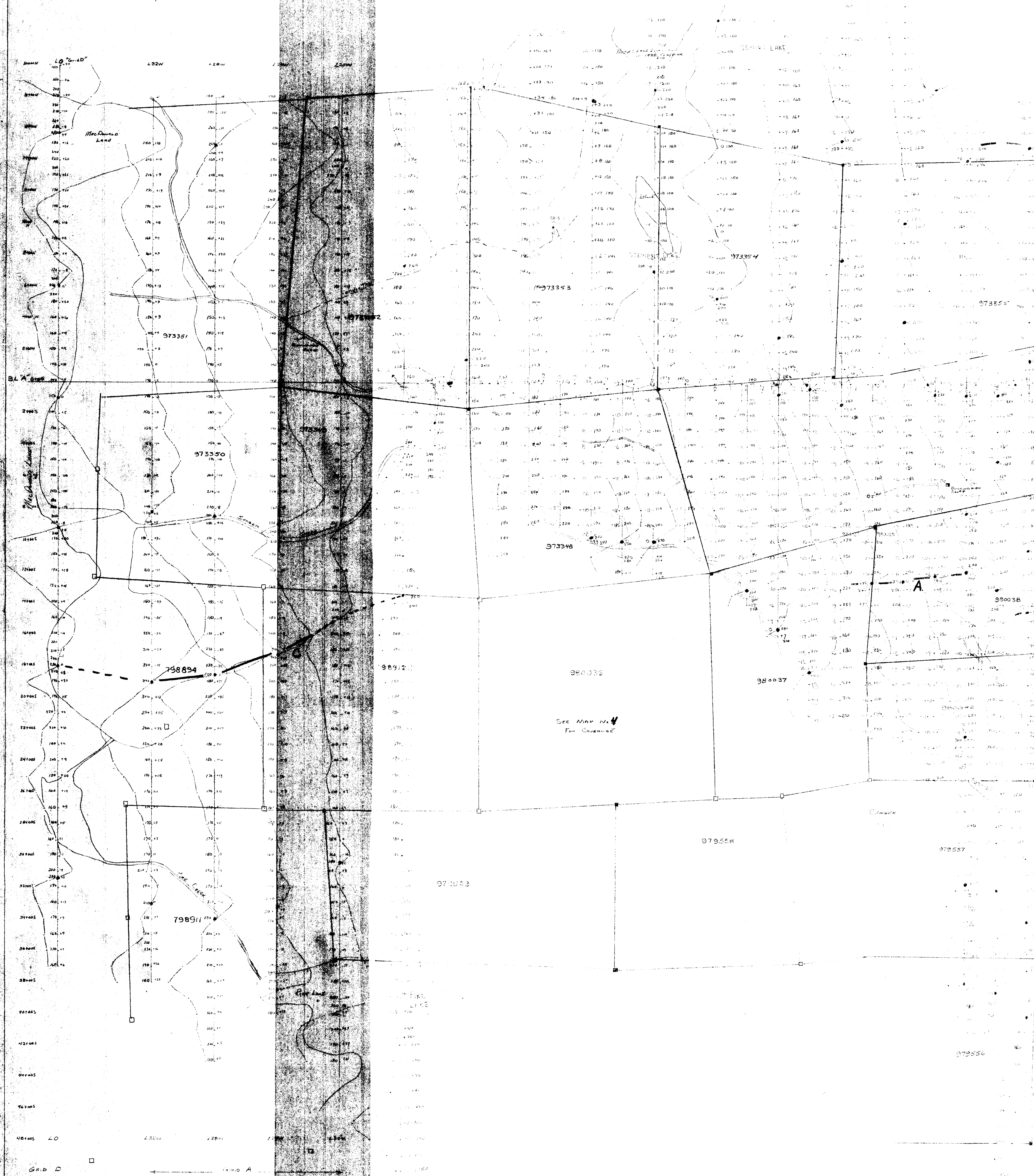
FIGURE:	DATE: SEPT/90	CHECKED BY: R.C.
DRAWN BY: R.C.	N.T.S. 4:1 P/11	SCALE: 1"=200'
J.L. TINDALE & ASSOCIATES		



*J.P. ...*  
2.13903

A - 130

### MAP No. 3



J.L. Tindale  
Jan 31/91

L40W L36W

ASQUITH RESOURCES INC

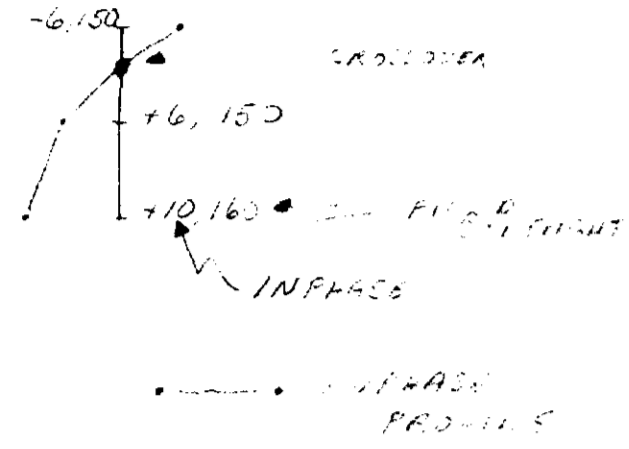
RADEN VLF SURVEY

TX STA CM

GRID C WEST EXTENSION

2.13903

FOOTING MEASURE



1:5000 FINE SCALE  
1:25000 GRID SCALE

ASQUITH TWP.  
SARAWAT TWP.

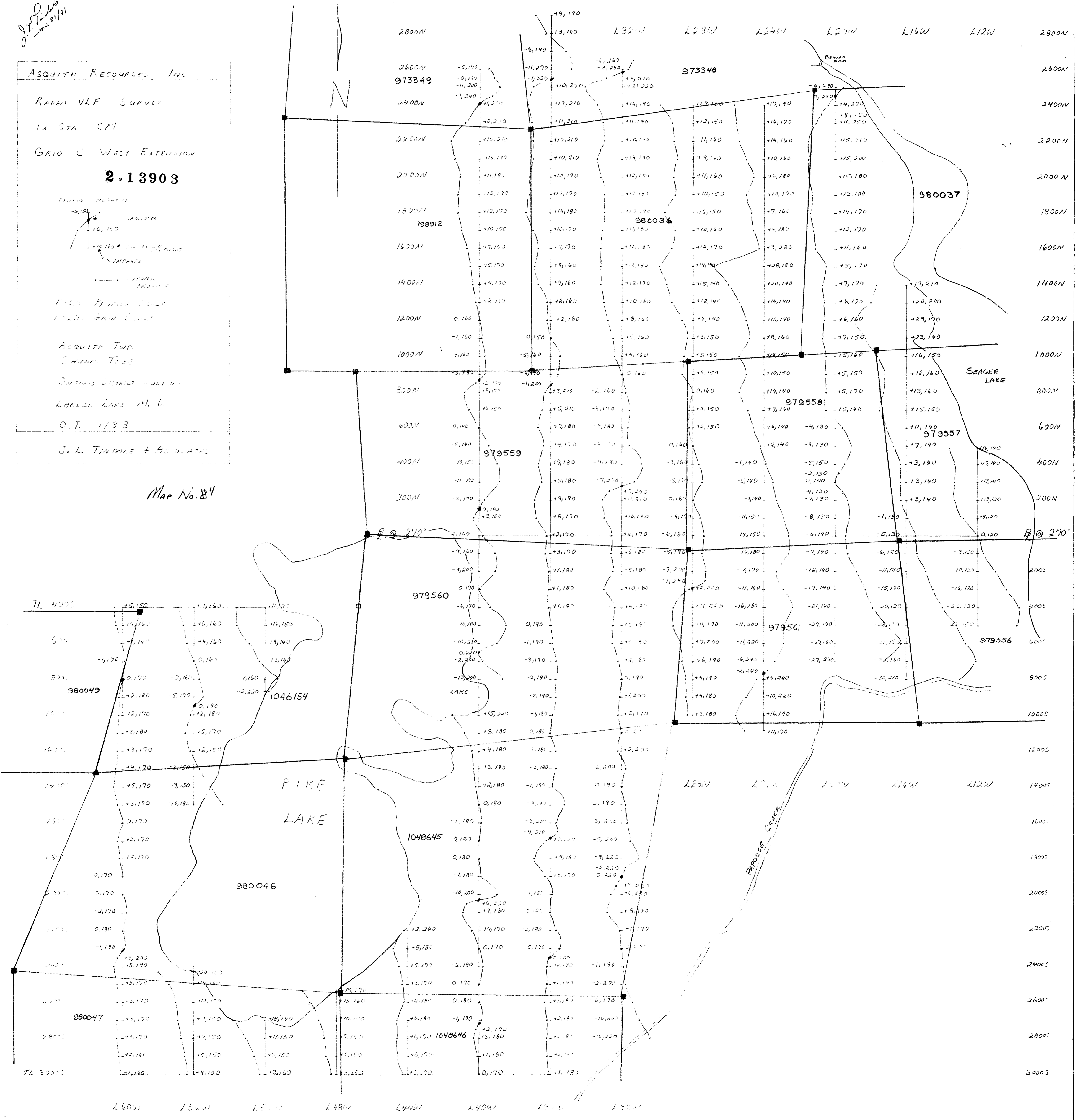
SOUTHERN DISTRICT - ALBERTA

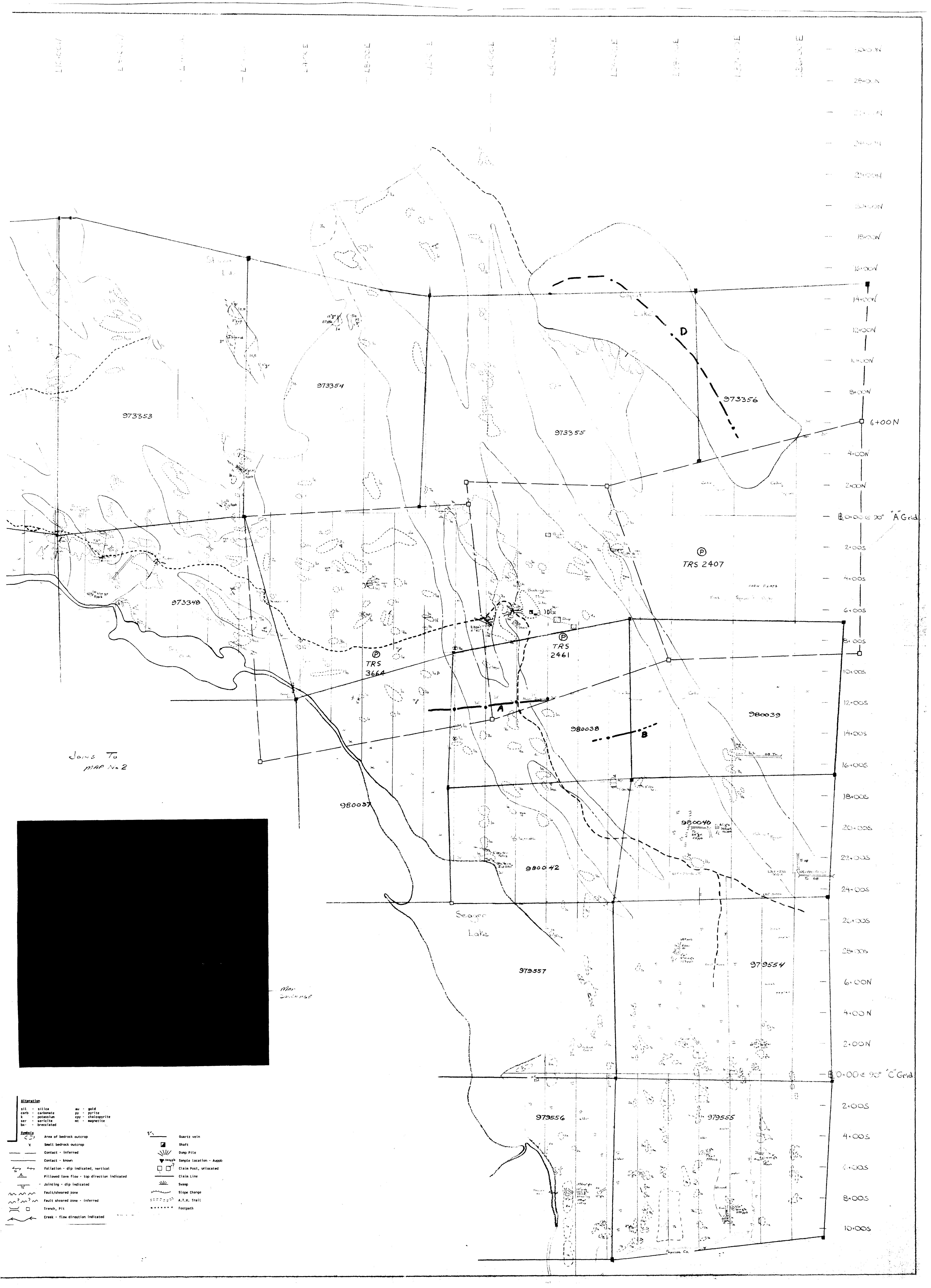
LARSEN LAKE M. L.

O.T. 1183

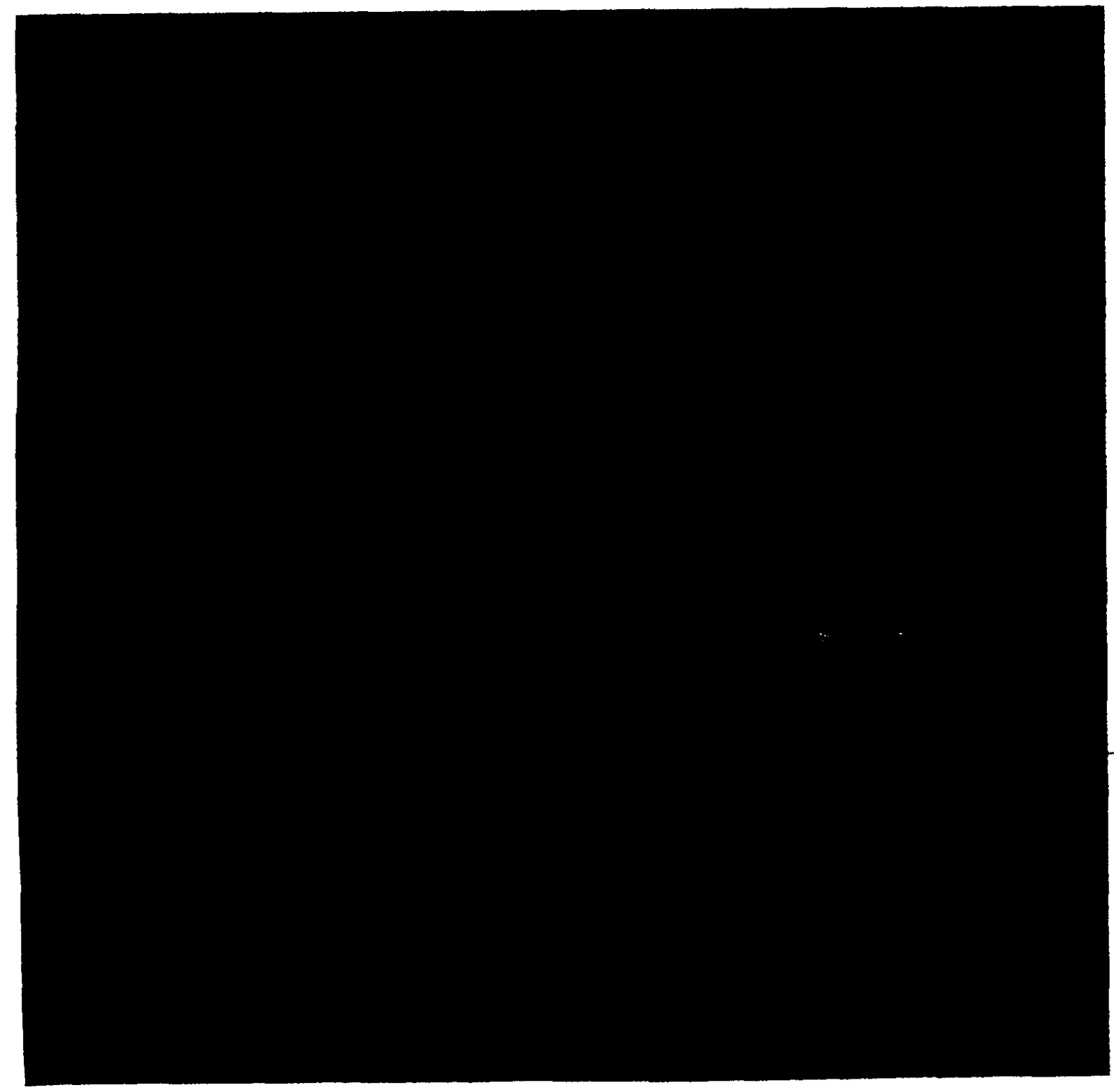
J. L. TINDALE + ASSOCIATES

Map No. 24





Joins To  
MAP No 2



- |                   |                    |
|-------------------|--------------------|
| <b>Alteration</b> |                    |
| sil - silica      | au - gold          |
| carb - carbonate  | py - pyrite        |
| k - potassium     | cpy - chalcopyrite |
| ser - sericite    | ml - magnetite     |
| br - brecciated   |                    |
- 
- |                                 |  |
|---------------------------------|--|
| <b>Symbols</b>                  |  |
| (circle with dot)               | Area of bedrock outcrop                      |
| (x)                             | Small bedrock outcrop                        |
| (dashed line)                   | Contact - Inferred                           |
| (solid line)                    | Contact - known                              |
| (line with triangles)           | Foliation - dip indicated, vertical          |
| (line with triangles and arrow) | Pillowed lava flow - top direction indicated |
| (line with triangles and arrow) | Joining - dip indicated                      |
| (line with triangles)           | Fault/sheared zone                           |
| (line with triangles)           | Fault sheared zone - Inferred                |
| (square)                        | Trench, Pit                                  |
| (line with arrow)               | Creek - flow direction indicated             |
- 
- |                  |                         |
|------------------|-------------------------|
| (line with dots) | Quartz vein             |
| (square)         | Shaft                   |
| (line with dots) | Dump Pile               |
| (line with dots) | Sample location - Auger |
| (square)         | Clean Post, unlocated   |
| (line)           | Clean Line              |
| (line with dots) | Swamp                   |
| (line with dots) | Slope Change            |
| (line with dots) | A.T.V. Trail            |
| (line with dots) | Footpath                |

30000N  
28000N  
26000N  
24000N  
22000N  
20000N  
18000N  
16000N  
14000N  
12000N  
10000N  
8000N  
6000N  
4000N  
2000N  
0+00 ± 90° "A" Grid  
2+00S  
4+00S  
6+00S  
8+00S  
10+00S  
12+00S  
14+00S  
16+00S  
18+00S  
20+00S  
22+00S  
24+00S  
26+00S  
28+00S  
6+00N  
4+00N  
2+00N  
0+00 ± 90° "C" Grid  
2+00S  
4+00S  
6+00S  
8+00S  
10+00S

120000E  
118000E  
116000E  
114000E  
112000E  
110000E  
108000E  
106000E  
104000E  
102000E  
100000E

