



42A10SE9543 2.11916 CURRIE
Bowman

010

GEOLOGICAL REPORT
on the properties of
CROSS LAKE MINERALS LTD.
Currie, Bowman and Hislop Townships
District of Cochrane
Larder Lake Mining Division
by
Robert. K. Abernethy, P.Eng.
November, 1988

*Deal
2-9965*

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DEC 9 1988

MINING LANDS SECTION

ROBERT S. MIDDLETON EXPLORATION SERVICES INC.
136 Cedar Street South
TIMMINS, Ontario
P4N 7W8
(705) 264-4246
M-288



42A10SE9543 2.11916 CURRIE

010C

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CERTIFICATION

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SUMMARY

The Cross Lake Minerals Ltd. properties contain several targets considered on the basis of geological, geochemical and geophysical evidence to represent massive sulphide environments similar to those of the Noranda, Timmins and Matagami Camps.

Outcrop comprises less than 1% of the land surface, however diverse lithologies were identified including gabbros, basalts, intermediate to felsic pyroclastic tuffs to agglomerates, feldspar porphyries and diabase.

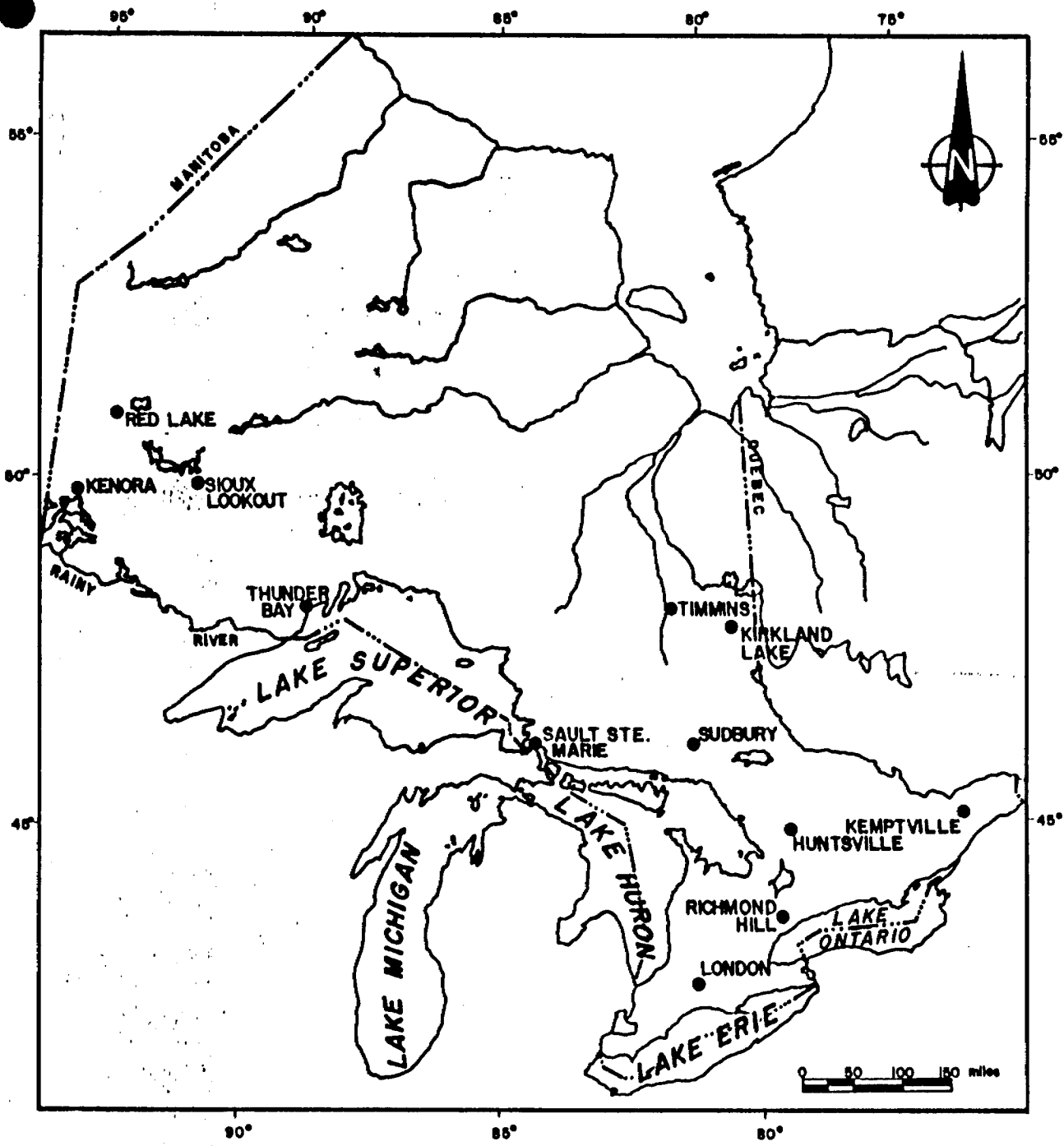
Regional geochemical and magnetic surveys indicate the presence of 3 distinct volcanic groups in the Currie-Bowman area. The Cross Lake Minerals properties straddle the contact between an un-named calc-alkalic Group and the tholeiitic Kinojevis Group.

A program of line-cutting, magnetic and horizontal loop electromagnetic geophysical surveys with follow-up diamond drilling of select targets is recommended.

INTRODUCTION

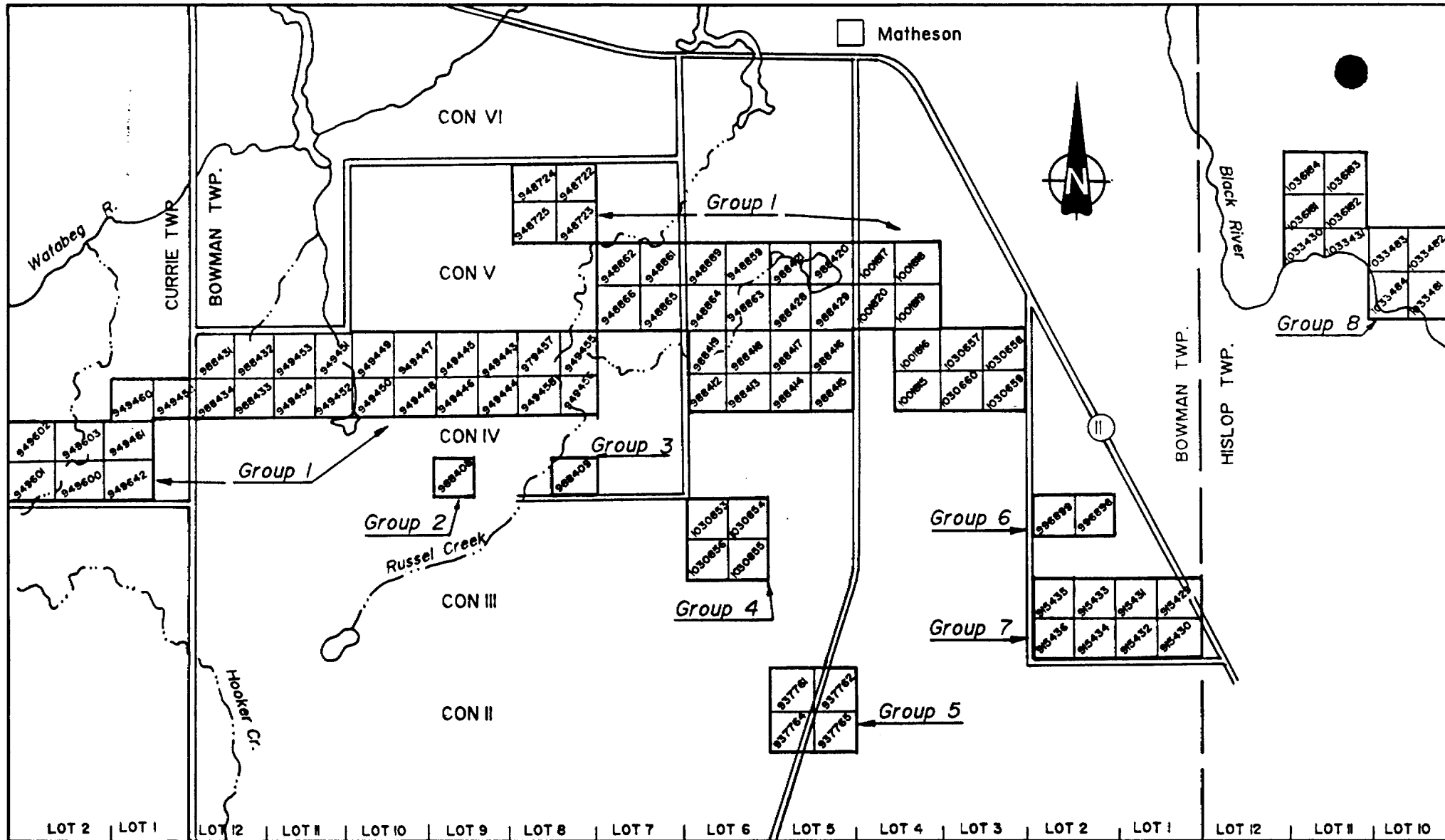
Cross Lake Minerals Limited of 301-121 Richmond Street West, Toronto, hold ninety two (92) unpatented, 40 acre, mining claims in eight (8) non-contiguous groups in Currie, Bowman and Hislop Township, District of Cochrane, Larder Lake Mining Division (Figures 1 and 2). Robert S. Middleton Exploration Services Inc. of Timmins, Ontario were retained by the management of Cross Lake Minerals to perform a geological survey covering the ninety-two claims.

The geological mapping and prospecting survey was conducted by the author (Abernethy) and, intermittently, by geologist Tom Guoth and geological technician Dan Sullivan. The mapping program commenced September 12, 1988 and was completed November 4, 1988. The survey procedures were to traverse grid lines on those claims where a grid is established, and traverse pace and compass lines and claim lines where no grids are established. Grid lines are cut at azimuth 0° with azimuth 90° base lines and tie lines. Line separation is 100m and station spacing is 25m. All grid and base lines were traversed and attempts were made to locate all claim posts and previously located outcrop. Traverses on the "non-gridded" claims were greatly assisted by the almost ubiquitous presence of old grid lines. Traverses on the "non-gridded" claims were made north-south along the old grid lines or by pace and compass lines running north-south. Spacing



PROVINCE OF ONTARIO

REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.		
	for	CROSS LAKE MINERALS	
	Title	PROPERTY LOCATION CURRIE-BOWMAN PROJECT CURRIE, BOWMAN AND HISLOP TOWNSHIPS	
		Fig. 1	
	Date:	DEC/1988	Scale: 1"=160mi. N.T.S.:
	Drawn:	RA	Approved: File: M288



LOT 2 | LOT 1 | LOT 12 | LOT 11 | LOT 10 | LOT 9 | LOT 8 | LOT 7 | LOT 6 | LOT 5 | LOT 4 | LOT 3 | LOT 2 | LOT 1 | LOT 12 | LOT 11 | LOT 10

REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.		
	for	CROSS LAKE MINERALS	
	Title	CLAIM LOCATION CURRIE-BOWMAN PROJECT CURRIE, BOWMAN AND HISLOP TWPS	
	Date: Nov. 1988	Scale: 1: 50,000	N.T.S.: FIG.2
	Drawn: R.A./A.M.	Approved:	File: M22P

of traverses was approximately 130m and all claim lines were traversed.

The objectives of the survey were to locate and identify all outcrops on the properties, sample all outcrops for lithogeochemical identification and prospect for geological conditions prospective of base metal and gold mineralization.

PROPERTY, LOCATION AND ACCESS

The Cross Lake Minerals property consists of ninety-two (92) unpatented, 40 acre mining claims in the District of Cochrane, Larder Lake Mining Division, Ontario and consist of the following eight non-contiguous claim blocks.

CLAIM BLOCK	CLAIM NUMBER	EXPIRY DATE
1	948722	October 10, 1988
1	948723	October 10, 1988
1	948724	October 10, 1988
1	948725	October 10, 1988
1	948859	October 10, 1988
1	948860	October 30, 1988
1	948861	October 30, 1988
1	948862	October 30, 1988
1	948863	October 30, 1988
1	948864	October 30, 1988
1	948865	October 30, 1988
1	948866	October 30, 1988
1	949443	October 30, 1988
1	949444	October 30, 1988
1	949445	October 30, 1988
1	949446	October 30, 1988
1	949447	October 30, 1988
1	949448	October 30, 1988
1	949449	October 30, 1988
1	949450	October 30, 1988
1	949451	October 30, 1988

CLAIM BLOCK	CLAIM NUMBER	EXPIRY DATE
1	949452	October 30, 1988
1	949453	October 30, 1988
1	949454	October 30, 1988
1	949455	October 30, 1988
1	949456	October 30, 1988
1	949457	October 30, 1988
1	949458	October 30, 1988
1	949459	November 28, 1988
1	949460	November 28, 1988
1	949461	November 28, 1988
1	949462	November 28, 1988
1	949600	October 21, 1988
1	949601	October 21, 1988
1	949602	October 21, 1988
1	949603	October 21, 1988
1	988412	December 31, 1988
1	988413	December 31, 1988
1	988414	December 31, 1988
1	988415	December 31, 1988
1	988416	December 31, 1988
1	988417	December 31, 1988
1	988418	December 31, 1988
1	988419	December 31, 1988
1	988420	January 7, 1989
1	988421	January 7, 1989
1	988428	January 7, 1989
1	988429	January 7, 1989
1	988431	January 7, 1989
1	988432	January 7, 1989
1	988433	January 7, 1989
1	988434	January 7, 1989
1	1001815	January 7, 1989
1	1001816	January 7, 1989
1	1001817	January 7, 1989
1	1001818	January 7, 1989
1	1001819	January 7, 1989
1	1001820	January 7, 1989
1	1030657	February 1, 1989
1	1030658	February 1, 1989
1	1030659	February 1, 1989
1	1030660	February 1, 1989
2	988408	December 31, 1988
3	988409	December 31, 1988
4	1030853	February 1, 1988
4	1030854	February 1, 1988

CLAIM BLOCK	CLAIM NUMBER	EXPIRY DATE
4	1030855	February 1, 1988
4	1030856	February 1, 1988
5	937761	February 1, 1989
5	937762	February 1, 1989
5	937763	February 1, 1989
5	937764	February 1, 1989
6	996898	August 19, 1989
6	996899	August 19, 1989
7	915429	May 5, 1989
7	915430	May 5, 1989
7	915431	May 5, 1989
7	915432	May 5, 1989
7	915433	May 5, 1989
7	915434	May 5, 1989
7	915435	May 5, 1989
7	915436	May 5, 1989
8	1033430	May 13, 1989
8	1033431	May 13, 1989
8	1033432	May 13, 1989
8	1033481	May 13, 1989
8	1033482	May 13, 1989
8	1033483	May 13, 1989
8	1033484	May 13, 1989
8	1036181	May 13, 1989
8	1036182	May 13, 1989
8	1036183	May 13, 1989
8	1036184	May 13, 1989
TOTAL	92 Claims	

The properties are located in concessions II, III, IV and V, lots 1 through 12 inclusive in Bowman Township and concession IV, lots 1 and 2 in Currie Township and concession V, lots 10 and 11 of Hislop Township (Figure 2). Access to the property is excellent as much of the property is covered by past or present agriculture land and can be easily reached by automobile and all terrain vehicles via township roads which access Highway 11.

PREVIOUS WORK AND EXPLORATION HISTORY

Owing to the strategic location (centred between the prolific Porcupine and Kirkland Lake mining camps) and easy access, all outcrops in the map area have been extensively prospected and evidence of previous work such as blasted pits can be found at most outcrops. Prospecting previous to the early 1970's had centred on gold with the reported occurrence of several gold showings immediately adjacent to the Cross Lake property. With the Tillex syndicates' Cu-Zn-Pb-Ag-Au discovery on the Currie-Bowman Township property in 1974, the area was also recognized as a potential base metal environment. Due to extensive sand, clay and till cover in the area (less than 1% bedrock exposure) most of the recent prospecting has been restricted to deep sensing geophysical techniques and overburden geochemical techniques in addition to several diamond drill programs on, and adjacent to the properties. Below is a list of previous workers on and adjacent to the properties as researched in the assessment files of the Ministry of Mines and Northern Development offices in Kirkland Lake. Work performed on patented mining lands may not be filed at Kirkland Lake and is unknown to the author.

Currie Township

	<u>Year</u>	<u>Company</u>	<u>Type of Work</u>
1.	1974,75	Tillex Syndicate	ground magnetic ground electromagnetic 22 OVDH - 3725' 31 DDH - 13085'
2.	1980-84	Asarco	Ground magnetic survey Ground electromagnetic survey 10 OVDH - 1422' 5 DDH - 2011'
3.	1982-85	Kidd Creek	Airborne magnetic survey Airborne electromagnetic survey 12 OVDH
4.	1987	Cross Lake Minerals	Ground magnetic survey

Bowman Township

	<u>Year</u>	<u>Company</u>	<u>Type of Work</u>
1.	?	Bird, S.J.	1 DDH - 122'
2.	1967	Selco	1 DDH - 578'
3.	1971	Young/Davidson- Foster option	5 DDH - 1360'
4.	1974,75	Tillex Syndicate	Geology Ground magnetic survey Ground electromagnetic survey 2 OVDH - 86' 3 DDH - 945'
5.	1981-84	Asarco	Geology Ground magnetic survey Ground electromagnetic survey 28 OVDH - 2668' 5 DDH - 2356'

Bowman Township

	<u>Year</u>	<u>Company</u>	<u>Type of Work</u>
6.	1982-85	Kidd Creek	Airborne magnetic survey Airborne electromagnetic survey 24 OVDH
7.	?	Noranda	Ground magnetic survey Ground electromagnetic survey
8.	1988	Cross Lake Minerals	Ground magnetic survey

A compilation map of all previous work is shown in Figure 3.

REGIONAL GEOLOGY

The Cross Lake Minerals Ltd. properties lie within the Archean Abitibi Volcano-sedimentary greenstone belt of Northeastern Ontario. The Currie-Bowman area is dominated by east-west trending steeply dipping volcanic rocks and tuffs with minor interflow sedimentary rock. Regional metamorphic grade ranges from lower to upper greenschist facies.

A regional lithogeochemical survey has identified three distinct volcanic groups in the Currie-Bowman Area consisting of the komatiitic Stoughton-Roguemaure Group (possibly Lower Tisdale Group) in the northern half of the area, the tholeiitic Kinojevis Group in the lower half of the area, and the central un-named calc-alkaline Group. The Cross Lake Minerals properties straddle the boundary between the tholeiitic Kinojevis Group and the

un-named calc-alkaline Group.

Regional economically important deposits which lie at or near the same stratigraphy as the Cross Lake property are the Tillex Cu-Zn-Pb-Ag-Au deposit in Currie Township, the Unigold (ex Seaway Copper Mines) Zn-Pb-Au deposit in Bond Township, the Ross Au Mine in Hislop Township and possibly the Cu-Ni and Cu-Zn-Pb deposit of Langmuir and Carmen Townships.

PROPERTY GEOLOGY

The Cross Lake Minerals properties are extensively covered by overburden and swamp deposits with only 1% outcrop. Outcrops consist of mafic intrusive and extrusive rocks, intermediate to felsic intrusive to pyroclastic rocks and diabase.

Mafic intrusive rocks were found in two locations. An outcrop in the southwest corner of claim number 949456 of claim group 1, consisted of a dark-green, medium to coarse-grained, massive gabbro. The outcrop was non-descript showing no obvious foliation, weak jointing at erratic angles and no quartz veining or significant alteration. A second similar appearing outcrop of gabbro occurred in northwest quadrant of claim number 1030656 of claim group 4. The gabbroic rocks may represent coarser-grained phases of thick mafic flow rocks or may represent separate distinct subvolcanic feeder chambers of the chemically equivalent massive flows of the tholeiitic Kinojevis Group.

Komatiitic to tholeiitic basalts are the most common lithology found on the southern claims of the properties. The basalts are variably jet black to grey to pale green, fine-grained, massive to moderately foliated, magnetic to non-magnetic and variably carbonatized, silicified and chloritized. Pillow basalts and flow breccias were found only in rocks of claim group 2 and 7. The variable appearance and chemistry (komatiitic to calc-alkaline) of basalts in concessions III and IV of Bowman and Currie Townships suggest the existence of an interdigitated transition zone from the un-named calc-alkaline Group to the north and the tholeiitic Kinojevis Group to the south.

Intermediate to felsic pyroclastic rocks were found on the flanks of a resistive diabase dyke in lots 7 and 8 of concession V in Bowman Township. The pyroclastic rocks range from very coarse-grained volcanic breccia/agglomerate to fine-grained ash tuffs and crystal tuffs. In the southwest corner of claim 948865 is a low density, very coarse-grained agglomerate containing sub-angular porphyritic, monolithic autobrecciated clasts in a siliceous, feldspar crystalline matrix. The agglomerate is bleached white on weathered surface and pale chloritic green on fresh surface with minor quartz vein stringers and traces to 1% pyrite and chalcopyrite. A large outcrop near the northern boundary of claim 948865 consists of a black, fine-grained, well

banded cherty/siliceous ash tuff. The essential pyroclasts are fine-grained (.5-2 mm) lithic fragments, feldspar crystals and, rarely, quartz shards, in an aphanitic siliceous matrix. The rock is thinly (1-5 cm) bedded, trending east-west and dipping between 50° to 60° to the south.

Two similar appearing feldspar porphyry outcrops are on the north boundary of claim group 6 and near the western claim line of claim 948860 in claim group 1. The feldspar porphyry is buff white on weathered surface and porphyritic chloritic green on fresh surface, coarse-grained, massive, and intermediate in composition. The feldspar phenocrysts comprise 40-60% of the rock and are medium-grained (1-5 mm), zoned, euhedral plagioclase crystals in an aphanitic green chloritic matrix. The rock is variably carbonatized with very minor quartz vein stringers and traces of pyrite and, in the claim group 1 porphyry, traces of chalcopyrite.

A large resistive olivine diabase dyke outcrops in the southeast corner of claim group 2 and continues northeastward to the central part of claim group 1. The diabase is rusty tan on weathered surface and dark green/black on fresh surface, ophitic, medium-grained, massive and moderately magnetic.

STRUCTURE AND STRATIGRAPHY

The eight Cross Lake Minerals properties in Currie-Bowman and Hislop Townships lie at or near the interdigitated transition zone of a major, fundamental change in volcanism. Based on major oxide and immobile trace element geochemical evidence from more than 30 bedrock samples in Currie, Bowman and Hislop townships, airborne magnetic and electromagnetic surveys performed by the Ontario Geological Survey and all previous geological and geophysical work performed in these townships, the stratigraphy in the Currie-Bowman area can be subdivided into three volcanic Groups. The Groups trend in an east-northeasterly direction and appear to face and dip to the south. North of claim group 1 and to the Destor-Porcupine fault are mostly komatiitic rocks of the Stoughton-Roquemaure Group. The claim group 1 property appears to be mostly underlain by calc-alkaline rocks of an un-named Group. An interdigitated transition zone appears to lie just south of the group 1 claim block where the calc-alkaline rocks grade into the lower formations of the tholeiitic Kinojevis Group. Below the transition zone, individual flows of the Kinojevis Group have very distinct magnetic signatures which are easily identified on the regional magnetic map.

ALTERATION AND MINERALIZATION

Rocks on the Cross Lake Property are variably altered including weak to moderate carbonatization, weak silicification and chloritization. The intermediate to felsic pyroclastic rocks in the central portion of claim group 1 show the strongest alteration being moderately carbonatized (calcite), strongly chloritized and weakly silicified. Up to 1% pyrite and chalcopyrite mineralization also occurred in the pyroclastic rocks as disseminated crystals and rare splashes of chalcopyrite. The mafic volcanic rocks of the Kinojevis Group generally showed very weak alteration and little to no mineralization. Several pits were found exposing narrow barren quartz veins in the basalts of claim group 7, but the veins were narrow and unimpressive.

CONCLUSIONS AND RECOMMENDATIONS

The preliminary evidence based on this geological survey, regional geochemical survey and the regional geophysical surveys suggests that many of the exploration criteria for massive sulphide deposition are satisfied on the Currie-Bowman property.

These criteria are:

1. A calc-alkaline arc environment with at least two volcanic centres as evidenced by felsic intrusive rock and coarse-grained felsic pyroclastic rock (millrock).

2. Two known base metal deposits along a horizon that can be traced onto the Cross Lake Property and numerous chalcopyrite occurrences within the Cross Lake claim boundary.
3. The presence of several untested EM (INPUT) anomalies on the Cross Lake Property.

A program of line cutting, detailed magnetic and deep electromagnetic surveying is recommended covering the transition zone between the calc-alkaline Group and the tholeiitic Group and where known INPUT anomalies exist. Prospective anomalies should be diamond drilled as reverse circulation drilling would not prove useful in areas covered by Matheson esker complex.

Respectfully submitted



Robert K. Abernethy, P.Eng.

REFERENCES

Geological data presented in this report was obtained by the geological survey and the following sources of information:

JENSEN, L.S. and BAKER, C.L.

1986

Preliminary Results of Bedrock Samples from the Sonic Drilling Program (1985) in the Lake Abitibi-Matheson Area, Cochrane District, Ontario Geological Survey, Map P2986, Geological Series - Preliminary Map, scale 1:100,000. Geology 1985.

LEAHY, E.S.

1965

Currie and Bowman Township, Ontario
Department of Mines, Geological Report
No.40 with accompanying map.

OGS

1984

Airborne Electromagnetic and Total Intensity Magnetic Survey, Matheson-Black River Area, Bowman Township and Currie Township, District of Cochrane by Questor Surveys Limited for the Ontario Geological Survey. Maps 80593 and 80594 Geophysical/Geochemical Series, scale 1:20,000.

1985

Bowman Township, District of Cochrane, Geological Data Inventory File 271.

1985

Currie Township, District of Cochrane, Geological Data Inventory File 270.

CERTIFICATION

I, Robert K. Abernethy, P.Eng., of Timmins, Ontario, certify that:

1. I am a graduate of the University of Toronto with a Bachelor of Applied Science degree in Geo-engineering obtained in 1985.
2. I have been practising my profession in Ontario and Quebec since 1985.
3. I have no direct interest in the properties, leases, or securities of Cross Lake Minerals Limited, nor do I expect to receive any.
4. The attached report is a product of:
 - a) Data listed in the references
 - b) Assessment work files - Ministry of Natural Resources, Timmins, Ontario
 - c) Geological surveying of the property in September and October, 1988.

Dated this November 30, 1988
TIMMINS, Ontario



Robert K. Abernethy, P.Eng.



DOC W8



42A10SE9543 2.11916 CURRIE BOWMAN

900

Do not use shaded areas below.

Land Management

Type of Survey(s): **Geological Mapping** Township or Area: **Currie E Bowman**

Claim Holder(s): **Cross Lake Minerals Ltd.** Prospectors Licence No.: **T-5039**

Address: **% P.O. Box 1637, Timmins, Ontario P4N 7W8**

Survey Company: **R.S. Middleton Exploration Serv. Inc.** Date of Survey (from & to): _____ Total Miles of line Cut: _____

Name and Address of Author (of Geo-Technical report): **R.K. Abernethy, P.O. Box 1637 Timmins Ontario P4N 7W8.**

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

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

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

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Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
	915429			948866	
	915430			949443	
	915431			949444	
	915432			949445	
	915433			949446	
	915434			949447	
	915435			949448	
	915436			949449	
	937761			949450	
	937762			949451	
	937763			949452	
	937764			949453	
	948722			949454	
	948723			949455	
	948724			949456	
	948725			949457	
	948859			949458	
	948860			949459	
	948861			949460	
	948862			949461	
	948863			949462	
	948864			949600	
	948865			949601	

PAGE 1 OF 2

Total number of mining claims covered by this report of work. **82**
78

Expenditures (excludes power stripping): **1988**

Type of Work Performed: _____

Performed on Claim(s): **MINING LANDS SECTION**

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: 1560	Date Recorded: Oct 24/88	Mining Recorder: <i>M. G. Williams</i>
Date Approved as Recorded: Z.P.	See record statement	Branch Director: _____

Date: **October 20/88** Recorded Holder or Agent (Signature): *Cynthia Abernethy*

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: **Cynthia Abernethy**

% P.O. Box 1637 Timmins Ontario P4N 7W8 Date Certified: **October 20/88.** Certified by Signature: *Cynthia Abernethy*



DOCUMENT NO. W8808-491

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.

Mining Act

Type of Survey(s) Geological Mapping		Township or Area Cumie & Bowman.	
Claim Holder(s) Cross Lake Minerals Ltd.		Prospector's Licence No.	
Address			
Survey Company		Date of Survey (from & to)	Total Miles of line Cut
		Day Mo. Yr.	Day Mo. Yr.
Name and Address of Author (of Geo-Technical report)			

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	
	- Magnetometer	
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 total(s) here: OCT 24 1988 10.15 am	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	- Electromagnetic	
	- Magnetometer	
	- Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
	949602		1001816		
	949603		1001817		
	988408		1001818		
	988409		1001819		
	988412		1001820		
	988413		1030657		
	988414		1030658		
	988415		1030659		
	988416		1030660		
	988417		1030853		
	988418		1030854		
	988419		1030855		
	988420		1030856		
	988421				
	988428				
	988429				
	988431				
	988432				
	988433				
	988434				
	996898				
	996899				
	1001815				

PAGE 2 OF 2.

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

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.

Date Recorded Holder or Agent (Signature)

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
	Date Approved as Recorded	Branch Director

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

Date Certified Certified by (Signature)

Mining Act

Type of Survey(s) **Geological Mapping** Township or Area **Bowman**

Claim Holder(s) **Cross Lake Minerals Ltd.** Prospector's Licence No. **T-5039**

Address **10 P.O. Box 1637 Timmins Ontario P4N 7W8.**

Survey Company **R.S. Middleton Exploration Services** Date of Survey (from & to) _____ Total Miles of line Cut _____

Name and Address of Author (of Geo-Technical report) **R.K. Abernethy P.O. Box 1637 Timmins Ontario P4N 7W8.**

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OCT 26 1988

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	
	- Magnetometer	
	- Radiometric	
For each additional survey: using the same grid: Enter 20 days (for each)	- Other	
	Geological	20
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete report, including and appendices	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits	Electromagnetic	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Magnetometer	
	Radiometric	

RECEIVED
OCT 11 1988
10:10 AM

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
	948722				
	948723				
	948724				
	948725				

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.

Total number of mining claims covered by this report of work. **4**

For Office Use Only

Total Days Cr. Recorded **80** Date Recorded **Oct. 11/88** Mining Recorder **M. G. Wessman**

Date Approved as Recorded **x.p.** Branch Director

Date **Oct. 7/88** Recorded Holder or Agent (Signature) **Cynthia Abernethy**

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 **Cynthia Abernethy P.O. Box 1637 Timmins Ontario P4N 7W8.**

Date Certified **October 7/88** Certified by (Signature) **Cynthia Abernethy**



Ministry of Northern Development and Mines

Ontario

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

DOCUMENT NO.

W8808-441

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.

NOU

Lands Management

Mining Act

Type of Survey(s): **Geological Mapping** 2.119 Town or Area: **Timmins**
 Claim Holder(s): **Cross Lake Minerals Ltd.** Prospector's Licence No.: **T-5039**
 Address: **P.O. Box 1637 Timmins Ontario P4N 7W8.**
 Survey Company: **R.S. Middleton Exploration Services** Date of Survey (from & to):
 Name and Address of Author (of Geo-Technical report): **R.K. Abernethy P.O. Box 1637 Timmins Ontario P4N 7W8.**

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

Man Days	Geophysical	Days per Claim
Complete report and map to be submitted	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

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

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.

Date: **Oct 7/88** Recorded Holder or Agent (Signature): *Cynthia Abernethy*

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: **Cynthia Abernethy P.O. Box 1637 Timmins Ontario P4N 7W8.**
 Date Certified: **October 7/88** Certified by (Signature): *Cynthia Abernethy*

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
	948722				
	948723				
	948724				
	948725				
RECEIVED OCT 19 1988 MINING LANDS SECTION ONTARIO GEOLOGICAL SURVEY ASSESSMENT FILES OFFICE JAN 4 1989 RECEIVED					

Total number of mining claims covered by this report of work. **4**

For Office Use Only

Total Days Cr. Recorded: 80	Date Recorded: Oct 11/88	Mining Recorder: <i>[Signature]</i>
Date Approved as Recorded: 16 Dec 88	Branch Director: <i>[Signature]</i>	



Mining Act

RECEIVED

OCT 27 1988

Currie E Bowman

Type of Survey(s): **Geological Mapping**

Claim Holder(s): **Cross Lake Minerals Ltd.**

Address: **1/2 P.O. Box 1637, Timmins, Ontario P4N 7W8**

Survey Company: **R.S. Middleton Exploration Serv. Inc.**

Name and Address of Author (of Geo-Technical report): **R.K. Abernethy, P.O. Box 1637 Timmins Ontario P4N 7W8.**

Prospector's Licence No.: **T-5039**

Date of Survey (from & to):

Total Miles of line Cut:

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	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	20
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits	Electromagnetic	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
	915429		948866		
	915430		949443		
	915431		949444		
	915432		949445		
	915433		949446		
	915434		949447		
	915435		949448		
	915436		949449		
	937761		949450		
	937762		949451		
	937763		949452		
	937764		949453		
	948722		949454		
	948723		949455		
	948724		949456		
	948725		949457		
	948859		949458		
	948860		949459		
	948861		949460		
	948862		949461		
	948863		949462		
	948864		949600		
	948865		949601		

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.

PAGE 1 OF 2

Total number of mining claims covered by this report of work. **82**

For Office Use Only

Total Days Cr. Recorded: **1560**

Date Recorded: **Oct 24/88**

Date Approved as Recorded: **Z.P.**

Mining Recorder: **M. A. Wierman**

Branch Director:

Date: **October 20/88**

Recorded Holder or Agent (Signature): **Cynthia Abernethy**

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: **Cynthia Abernethy**

% P.O. Box 1637 Timmins Ontario P4N 7W8

Date Certified: **October 20/88.**

Certified by Signature: **Cynthia Abernethy**



Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

January 3, 1989

Mining Lands Section
3rd floor, 880 Bay Street
Toronto, Ontario
M5S 1Z8

Telephone: (416) 965-4888

Your file: W8808-491
Our file: 2.11916

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

Dear Sir:

Re: Notice of Intent dated December 16, 1988 - Geological Survey
submitted on Mining Claims L915429 et al in Currie & Bowman Townships

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,

W.R. Cowan
Provincial Manager, Mining Lands
Mines & Minerals Division

RM:pl
Enclosure

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

Resident Geologist
Kirkland Lake, Ontario

Cross Lake Minerals Ltd.
c/o P.O. Box 1637
Timmins, Ontario
P4N 7W8

R.S. Middleton Services Inc.
P.O. Box 1637
Timmins, Ontario
P4N 7W8



Recorded Holder Cross Lake Minerals Limited
Township or Area Currie and Bowman Townships

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic _____ days	
Magnetometer _____ days	L 915429 to 436 inclusive
Radiometric _____ days	937761 to 764 inclusive
Induced polarization _____ days	948859 to 866 inclusive
Other _____ days	949443 to 462 inclusive
Section 77 (19) See "Mining Claims Assessed" column	949600 to 603 inclusive
Geological _____ 17 _____ days	988408-409
Geochemical _____ days	988412 to 421 inclusive
	988428-429
	988431 to 434 inclusive
	996898-899
	1001815 to 820 inclusive
	1030657 to 660 inclusive
	1030853 to 856 inclusive
Man days <input type="checkbox"/> Airborne <input type="checkbox"/>	
Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/>	
<input 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(19) - 60.

Taylor Twp.

Bond Twp.

VI

V

IV

III

II

I

Bowman Twp.

THE TOWNSHIP OF

CURRIE

DISTRICT OF COCHRANE

LARDER LAKE MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

- PATENTED LAND (P)
- CROWN LAND SALE (S) or (CS)
- LEASES (L)
- LOCATED LAND (Lpc)
- LICENSE OF OCCUPATION (L.O.)
- MINING RIGHTS ONLY (M.R.O.)
- SURFACE RIGHTS ONLY (S.R.O.)
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- EXPLORATORY LICENCE OF OCCUPATION (E.L.O.)

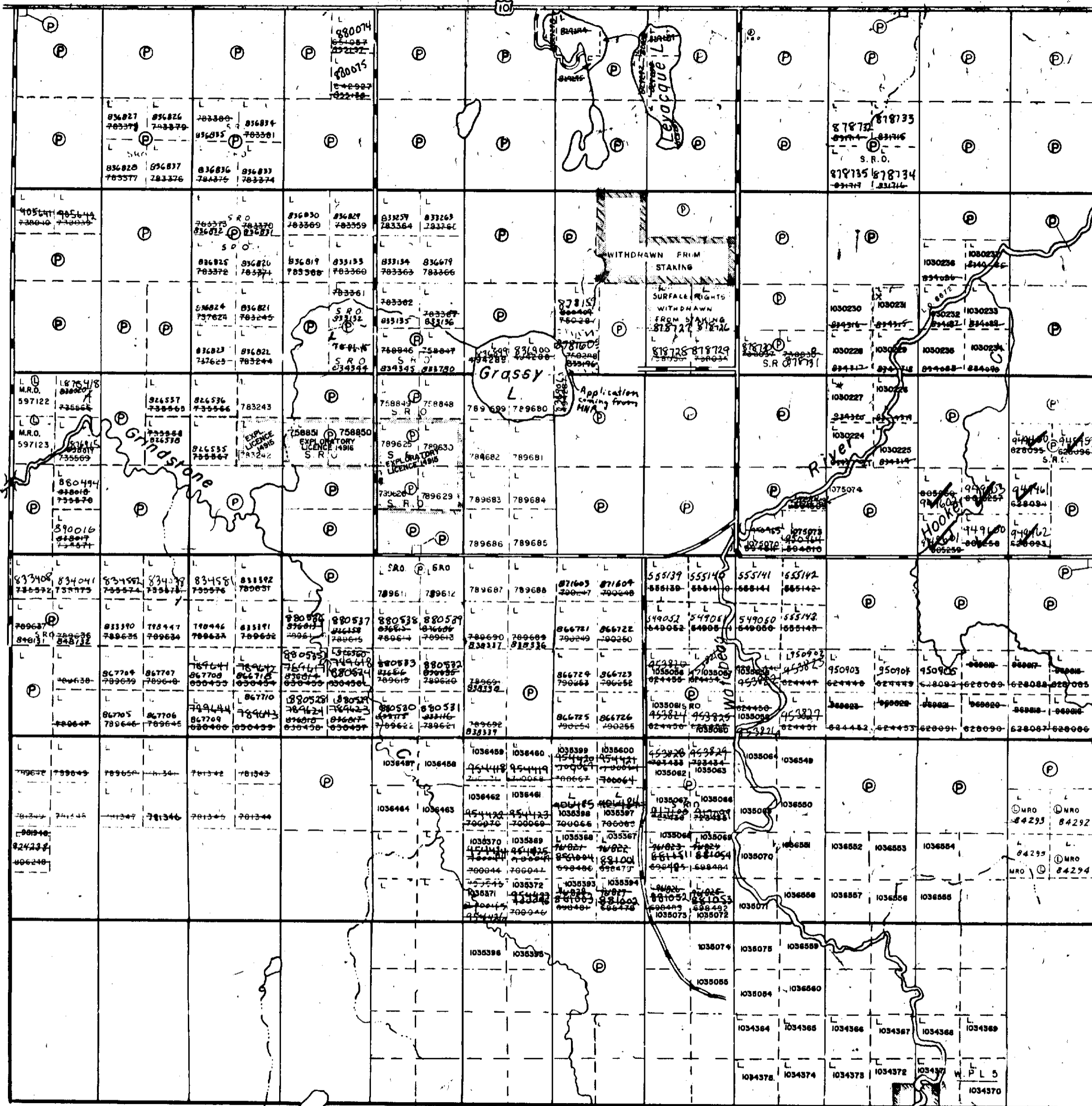
NOTES

L.O. 8272 Flooding rights to 820 a.s.l. contour.
 & 'Filed Only' application to record. re-stakings of these 2 claims under consideration

AREA MARKED THUS
 Files 111, 93
 21312
 WITHDRAWN FROM STAKING
 UNDER SEC. 39 (10) OF MINING ACT

400' Surface rights reservation around all lakes and rivers.

Withdrawn from staking under Section
 Mining Act (R.S.O. 1970)
 File Date Disposition



Egan Twp.

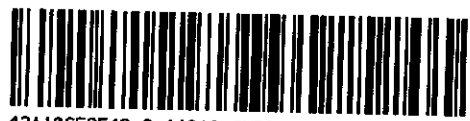
DATE OF ISSUE

DEC 2 1988

LARDER LAKE
 MINING RECORDER'S OFFICE

PLAN NO.- M.341 # 22

ONTARIO
 MINISTRY OF NATURAL RESOURCES
 SURVEYS AND MAPPING BRANCH

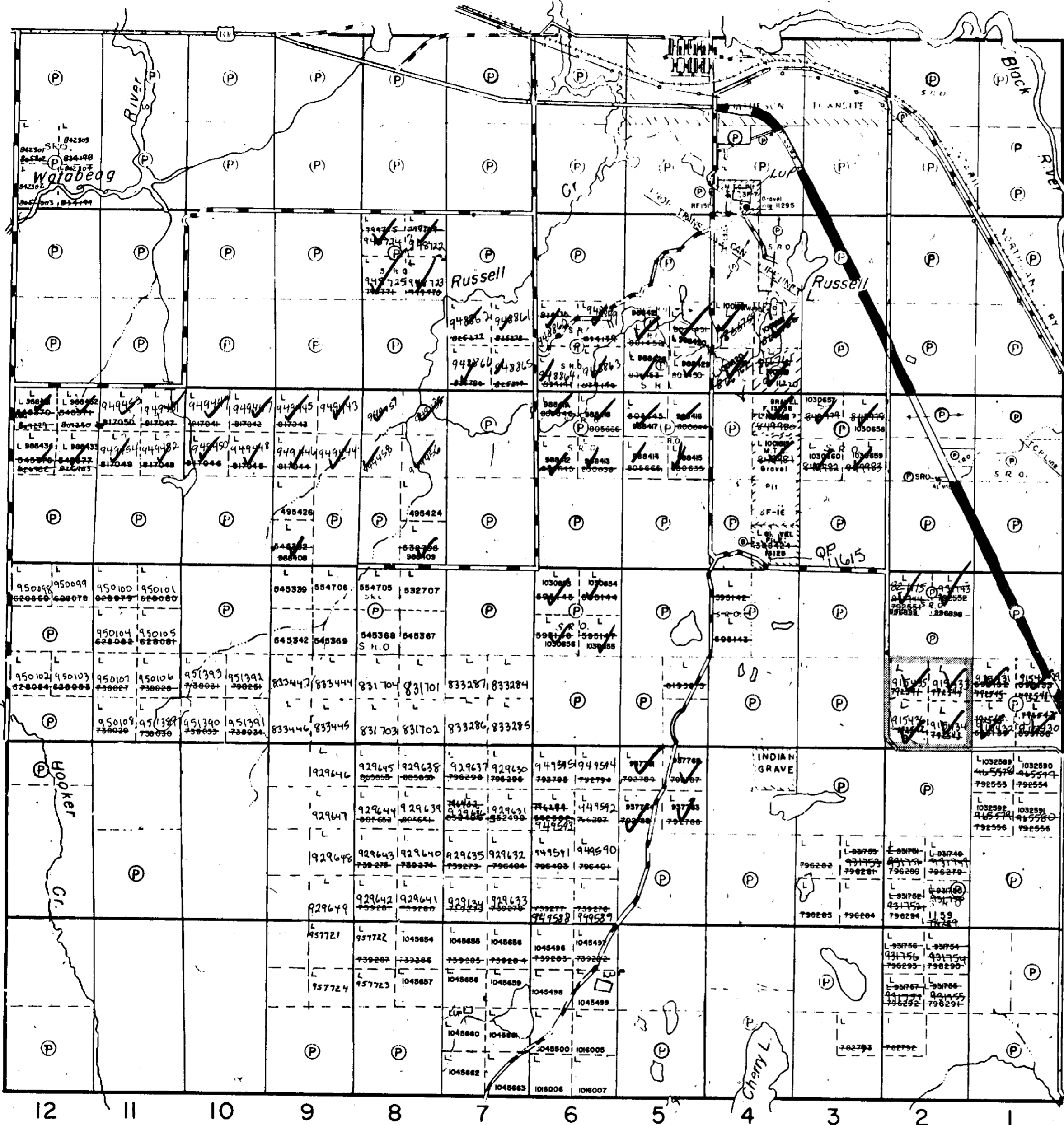


42A185E543 2.11916

200

J. v. Kalben

Carr Twp



Currie Twp.

Hislop Twp.

THE TOWNSHIP
OF
BOWMAN

DISTRICT OF
COCHRANE
LARDER LAKE
MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

- PATENTED LAND (P)
- CROWN LAND SALE (S) or (C.S.)
- LEASES (L)
- LOCATED LAND (Loc.)
- LICENSE OF OCCUPATION (L.O.)
- MINING RIGHTS ONLY (M.R.O.)
- SURFACE RIGHTS ONLY (S.R.O.)
- ROADS
- IMPROVED ROADS
- KINGS HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- GEODECTIC STATION

NOTES

400' SURFACE RIGHTS RESERVATION AROUND
ALL LAKES AND RIVERS.

L.O 8672 issued for flooding rights on
Watabeag River.

GRAVEL AND SAND

QUARRY PERMIT

DATE OF ISSUE

JUL 18 1988

LARDER LAKE
MINING RECORDER'S OFFICE

APPLICATION PENDING FOR SURFACE RIGHTS
UNDER PUBLIC LANDS ACT

NOTICE OF FORESTRY ACTIVITY

THIS TOWNSHIP / AREA FALLS WITHIN THE
WATABEAG MANAGEMENT UNIT
AND MAY BE SUBJECT TO FORESTRY OPERATIONS.
THE MNR UNIT FORESTER FOR THIS AREA CAN BE
CONTACTED AT: P.O. BOX 129
SWASTIKA, ONT.
POK ITO
705-642-3222

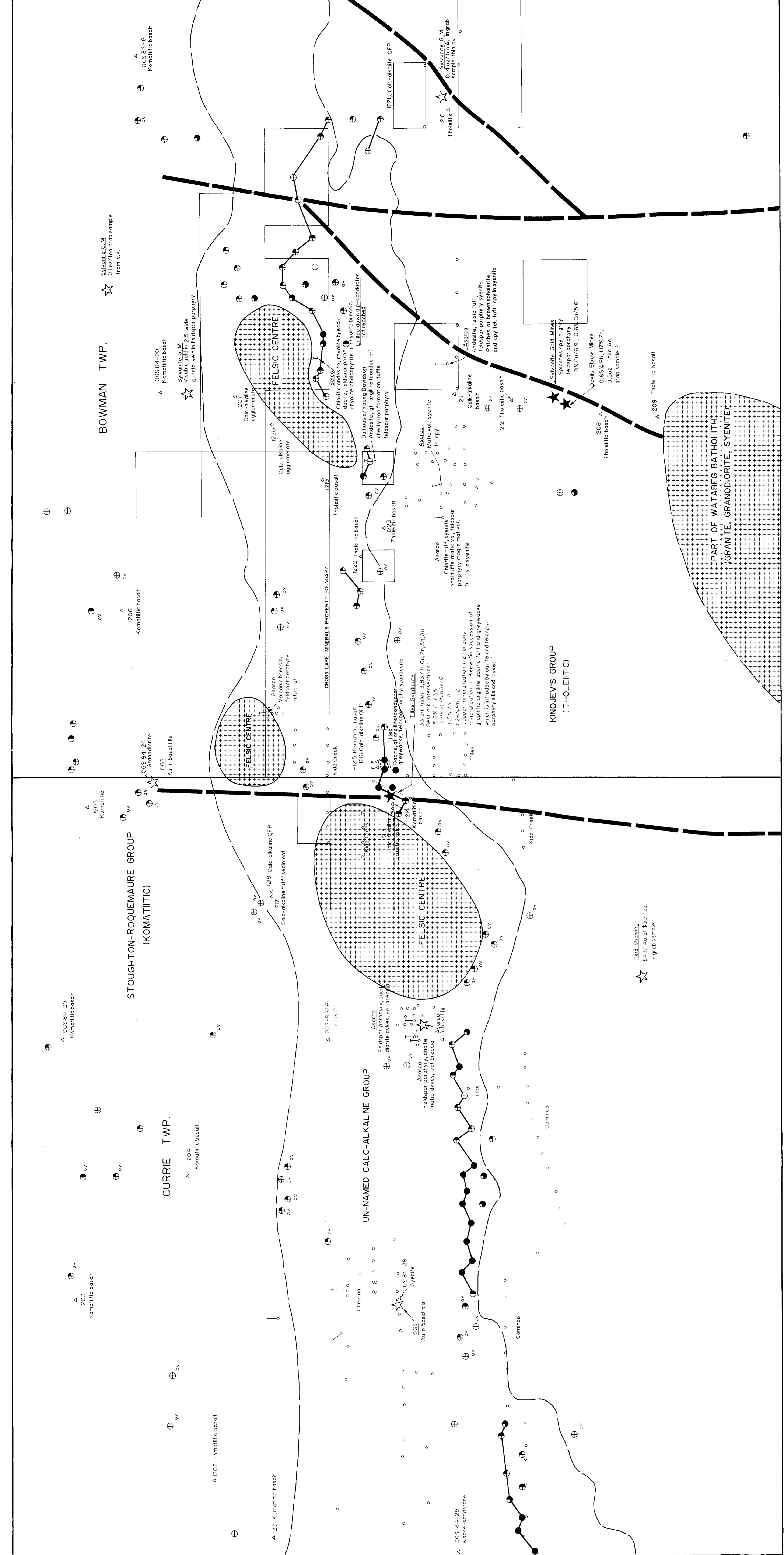
McCann Twp.

PLAN NO.- M-333#22

ONTARIO
MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH





2.11916

Rob M. Smith

ROBERT S. MIDDLETON
EXPLORATION SERVICES INC.
CROSS LAKE MINERALS LTD.

GEOLOGICAL AND GEOPHYSICAL
COMPILATION MAP
CURRIE AND BOWMAN TOWNSHIPS

Date: Nov 1988 | Scale: 1:70,000 | N.T.S.: Fig. 3
Drawn: R.A.V.A.M. | Approved: [Signature] | Fig.: W288

ABBREVIATIONS

- △ Bedrock sample location
- Diamond drill hole
- Overburden drill hole
- ★ Base metal showing
- ☆ Gold showing
- Geological contact assumed
- Fault

INPUT CONDUCTORS

- ⊕ 2 Channel (1500 microseconds)
- ⊕ 3 Channel (800 microseconds)
- ⊕ 4 Channel (1200 microseconds)
- ⊕ 5 Channel (1700 microseconds)
- ⊕ 6 Channel (2300 microseconds)

LEGEND

ABBREVIATIONS

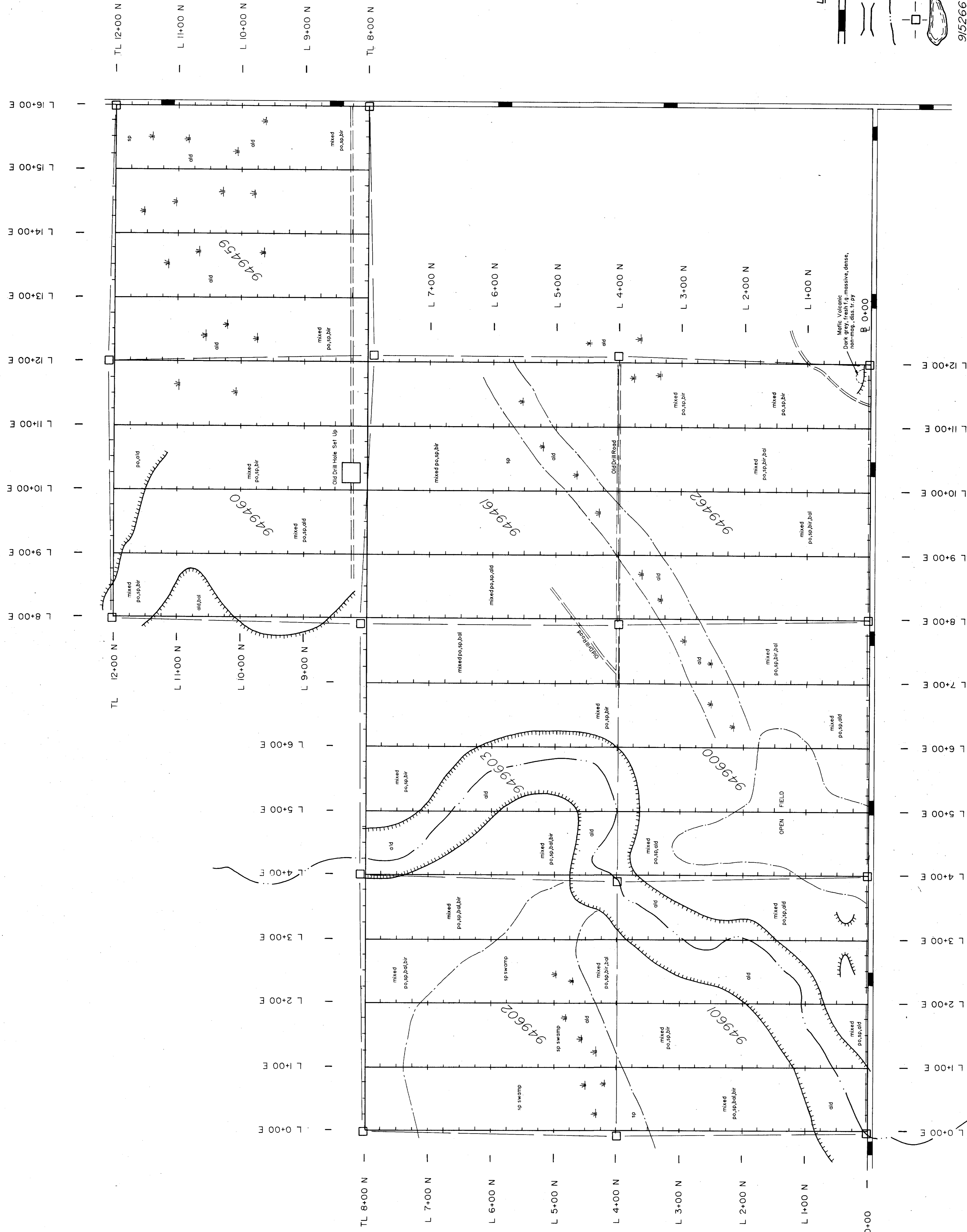
- △ Bedrock sample location
- Diamond drill hole
- Overburden drill hole
- ★ Base metal showing
- ☆ Gold showing
- Geological contact assumed
- Fault

INPUT CONDUCTORS

- ⊕ 2 Channel (1500 microseconds)
- ⊕ 3 Channel (800 microseconds)
- ⊕ 4 Channel (1200 microseconds)
- ⊕ 5 Channel (1700 microseconds)
- ⊕ 6 Channel (2300 microseconds)

- LOT 2 -

- LOT 1 -



CONCESSION IV

CONCESSION IV

LEGEND

- Road
- Bridge
- River or Stream
- Assumed Claim Post
- Body of Water
- Claim Number

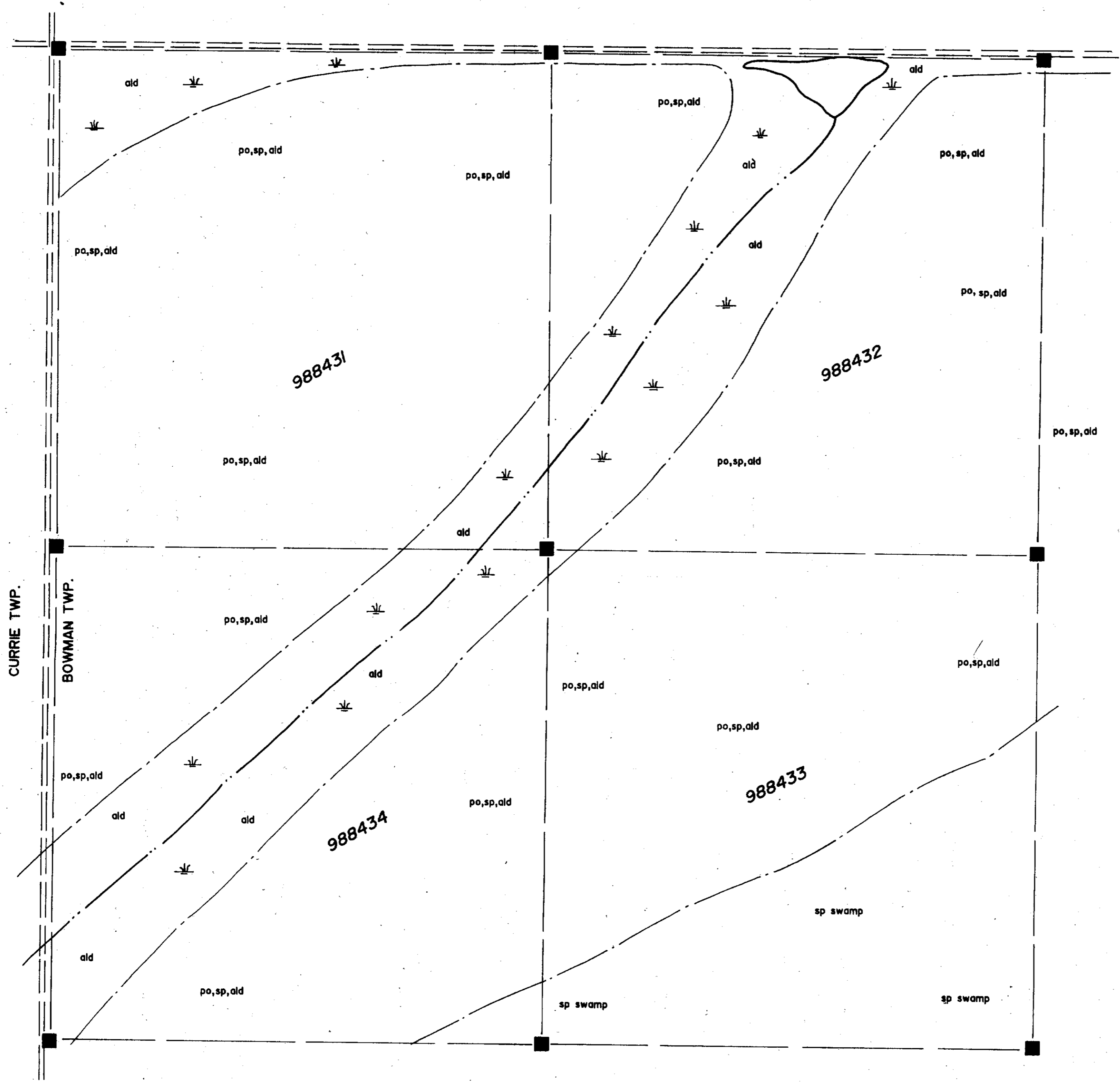
9/5266

2.11916

Robert S. Mittleton

REVISIONS	DATE	BY	DESCRIPTION

ROBERT S. MITTLETON
 EXPLORATION SERVICES INC.
 for CROSS LAKE MINERALS LTD
 Title CURRIE-BOWMAN TWP.
 GRID 4
 GROUP 1
 Date: Dec. 87 Scale: 1:2500 N.L.S.: Fig. 4
 Drawn: B.S.B. Approved: File: M-298

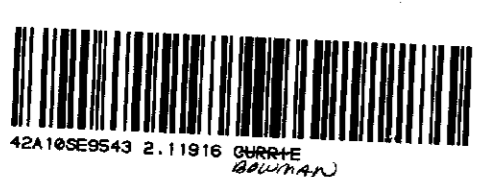


SYMBOLS

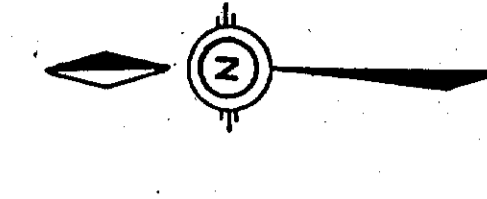
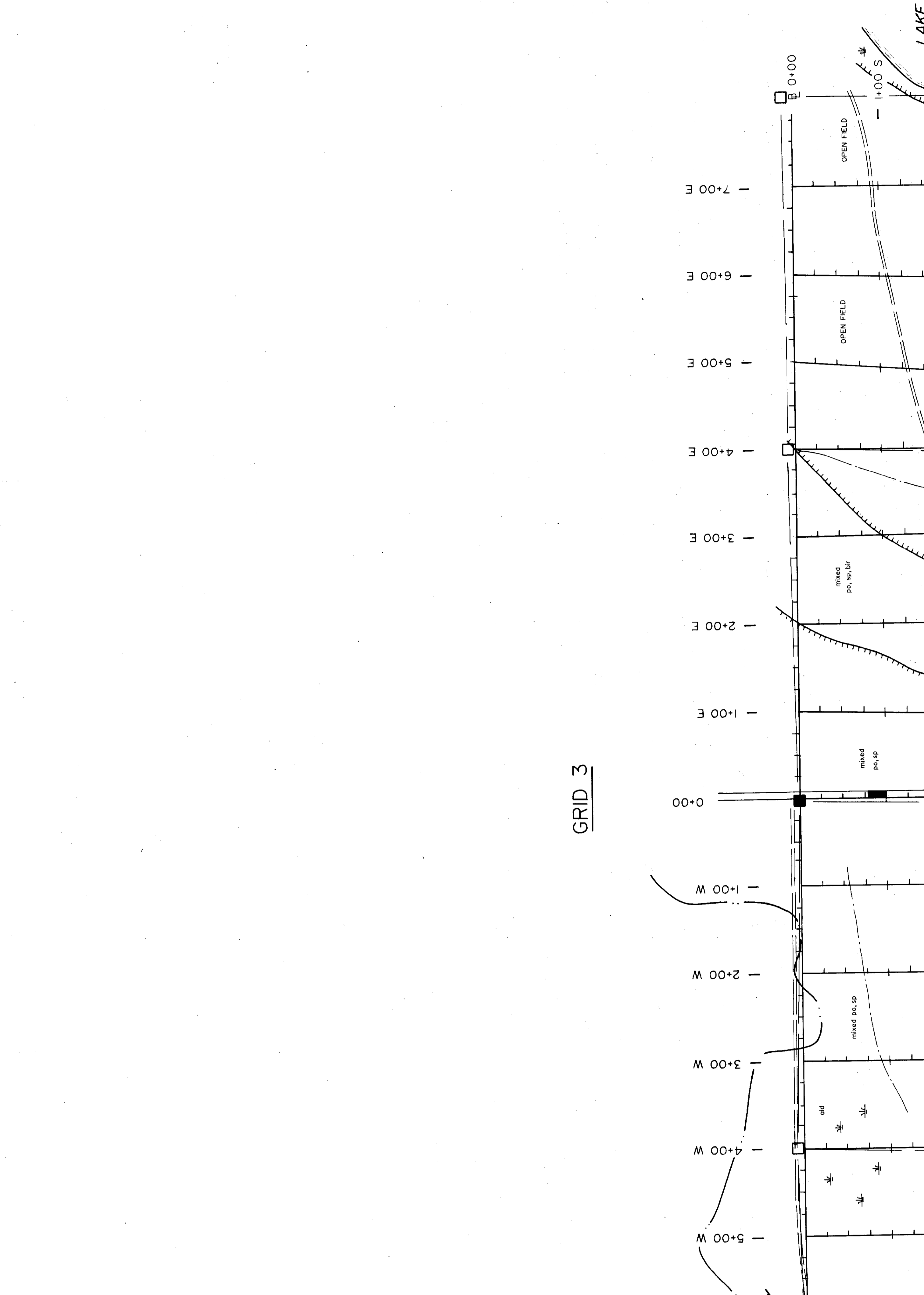
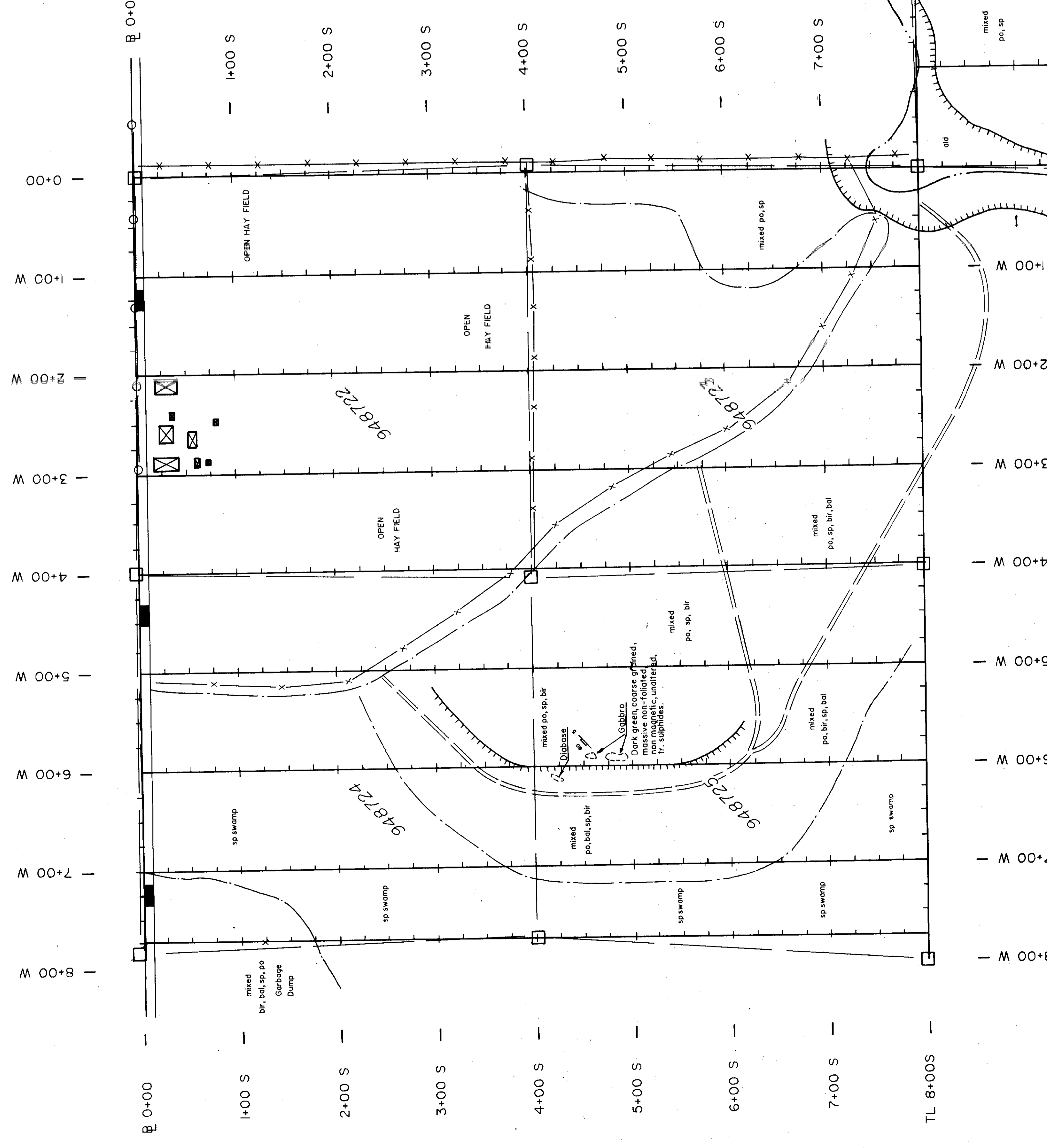
- outcrop, small outcrop, float
- geologic contact, known
- geologic contact, assumed
- bedding, top known, overturned
- pillow basalt, top known
- lineation
- foliation, schistosity, with dip
- vein attitude, with width in cm.
- anticline, syncline, with plunge
- plunging drag fold
- glacial striae, esker
- fault
- shear
- diamond drill hole, overburden drill hole
- road, trail
- power line, transmission line
- railway track
- trench, length, pit
- shaft, adit
- fence
- topographic slope
- moraine, boulders
- beaver dam, lake, creek
- swampy overburden
- claim post, located, assumed, witness
- sample location number
- claim number
- camp

2.11916

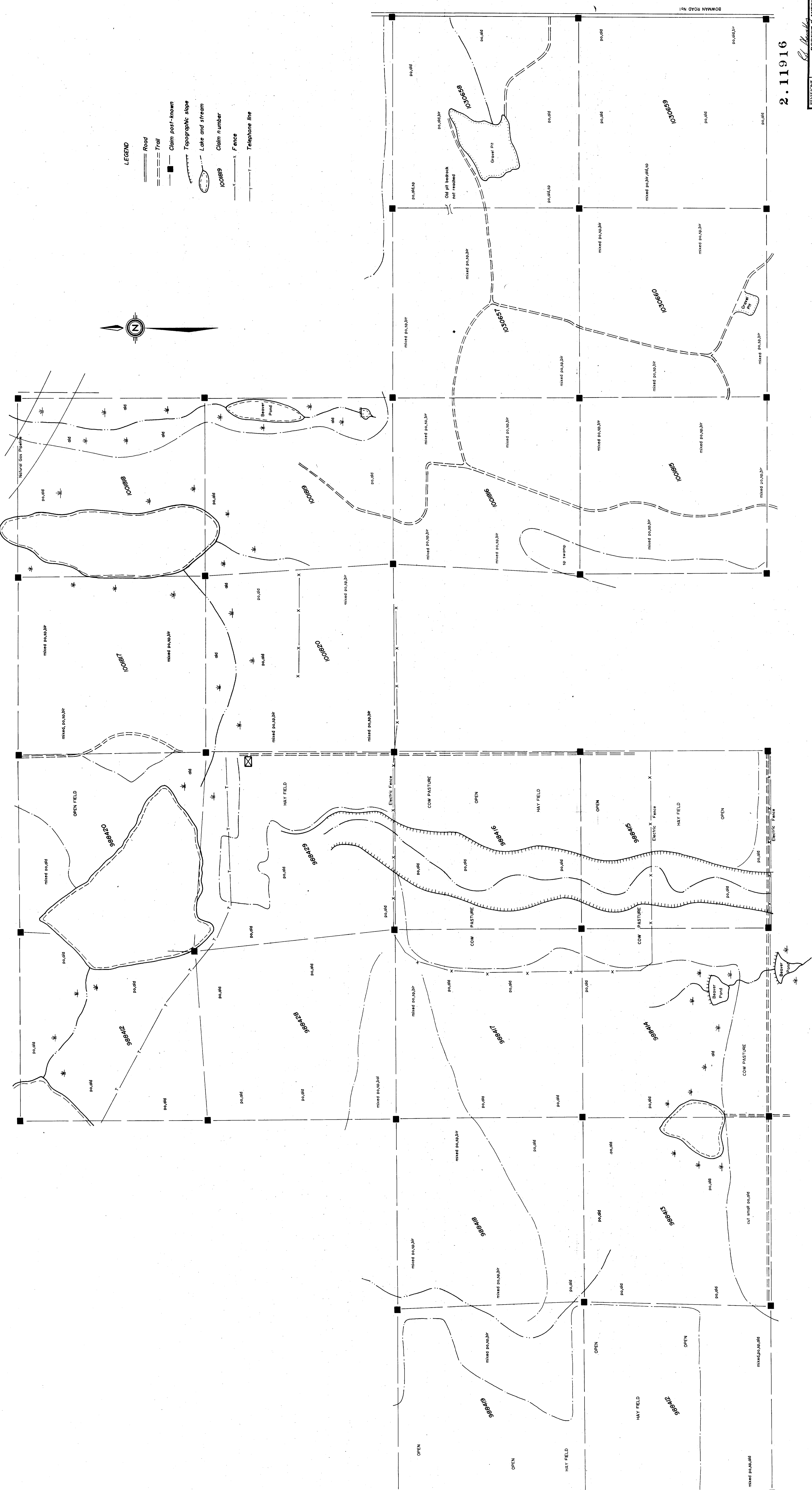
REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.		
	for	CROSS LAKE MINERALS LTD.	
	Title	CURRIE-BOWMAN PROJECT	
		GROUP I	
	Date: Nov. 1988	Scale: 1:2500	N.T.S.: Fig. 5
	Drawn: R.A./A.M.	Approved:	File: M288



- LOT 8 -



LEGEND



LEGEND

- Road
- - - Trail
- Claim post-known
- Topographic slope
- Lake and stream
- 1000ft
- Fence
- Telephone line

2.11916

REVISIONS	GROUP 1
ROBERT & MURPHY	CURRE-BOWMAN PROJECT
EXPLORATION SERVICES INC.	
CROSS LAKE MINERALS LTD.	
DATE: Nov 28th 1988	SHEET: 2500
DRAWN: R.A.M. Approved:	FILE: 4288

REVISIONS

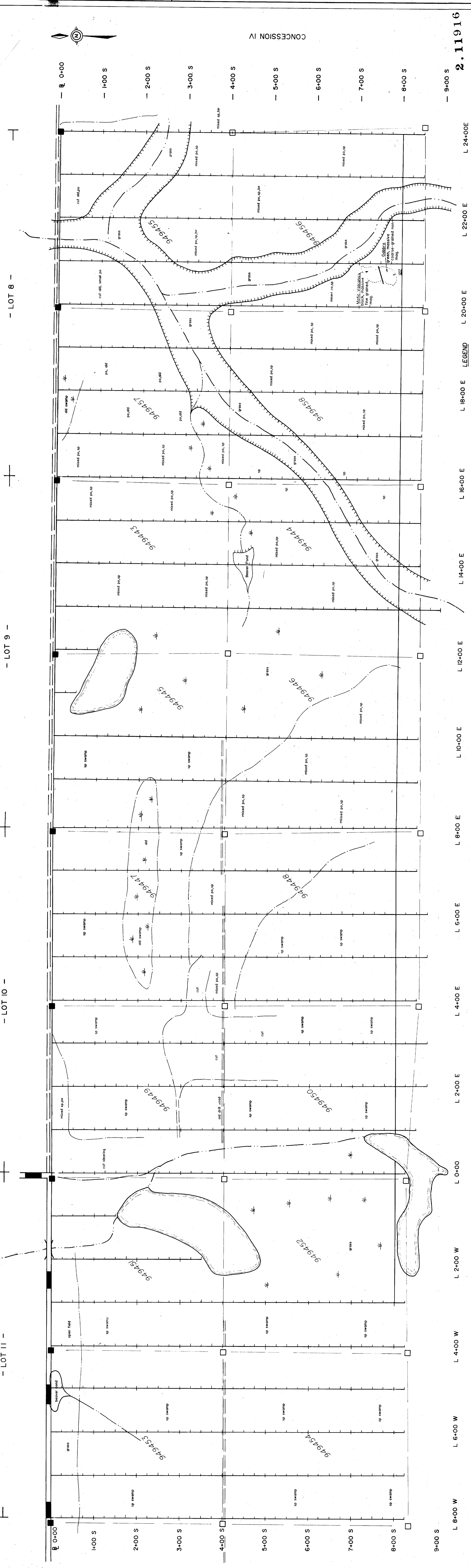
ROBERT S. MIDDLSTON
for
EXPLORATION SERVICES INC.
Title **CURRIE-BOWMAN TWP.**
GRID 1
Date: Dec. 87 Scale: 1:2500
Drawn: B.S.S. Approved: [Signature]

LEGEND

	Road		Claim Number
	Power Line		Body of Water
	Known Claim Post		Trail
	Assumed Claim Post		Bridge
	Fence		

GRID 1

L 8+00 W	L 6+00 W	L 4+00 W	L 2+00 W	L 0+00	L 2+00 E	L 4+00 E	L 6+00 E	L 8+00 E	L 10+00 E	L 12+00 E	L 14+00 E	L 16+00 E	L 18+00 E	L 20+00 E	L 22+00 E	L 24+00 E
1+00 S	2+00 S	3+00 S	4+00 S	5+00 S	6+00 S	7+00 S	8+00 S	9+00 S								



CONCESSION IV

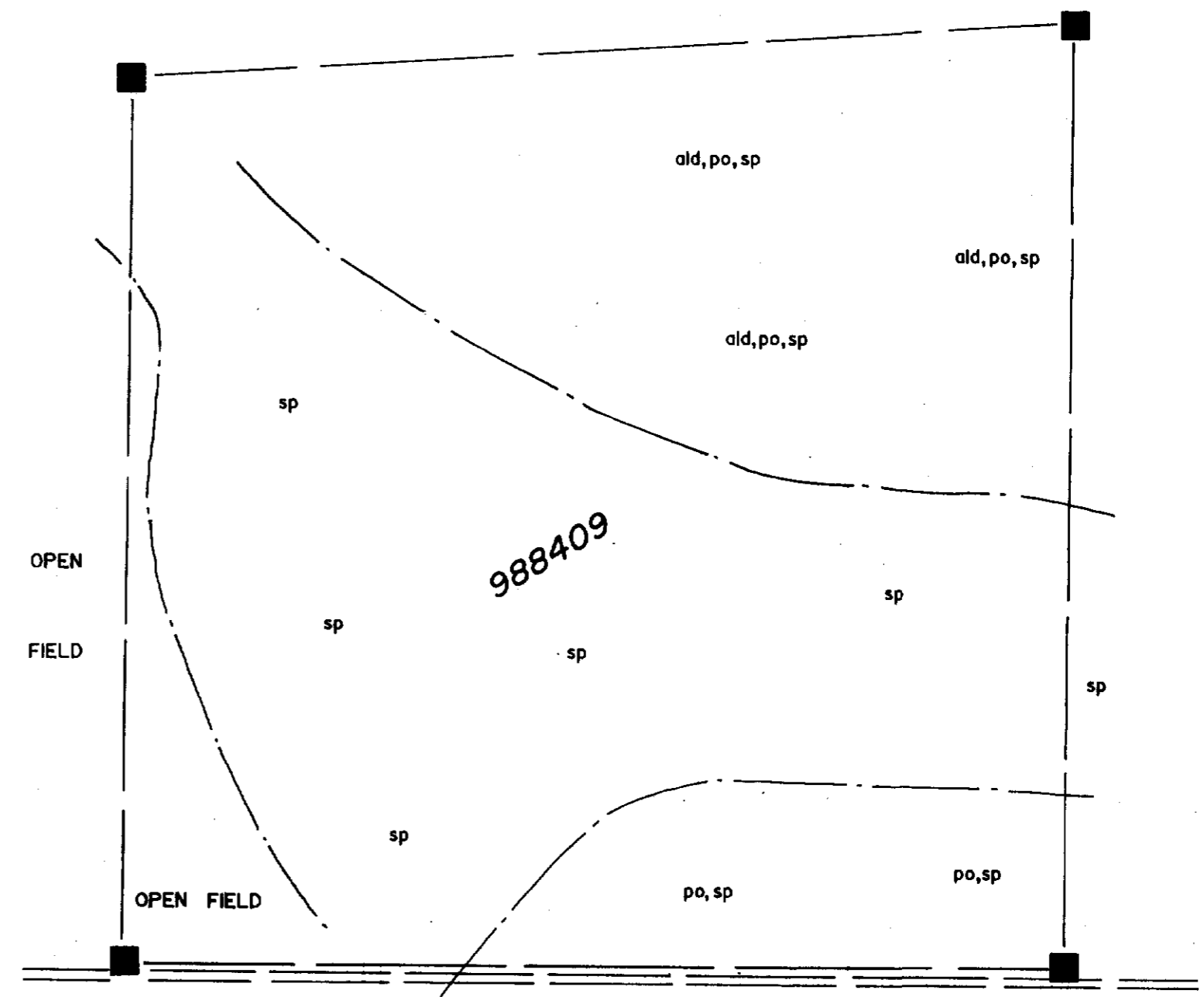
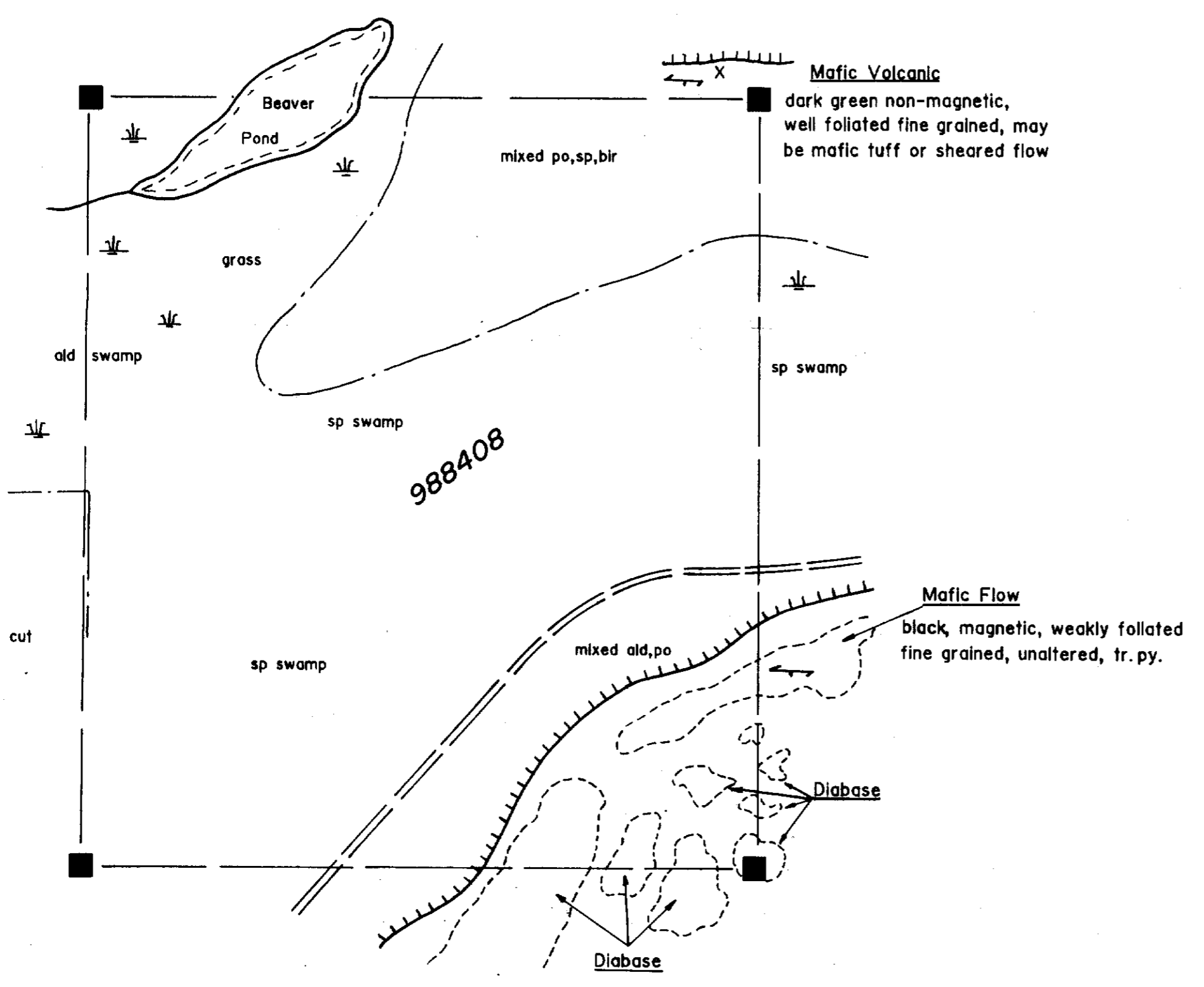
CONCESSION IV

- LOT 8 -

- LOT 9 -

- LOT 10 -

- LOT 11 -

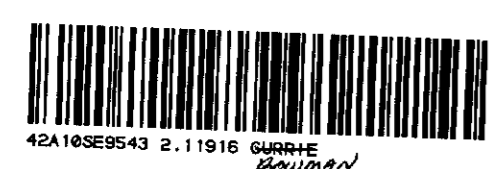


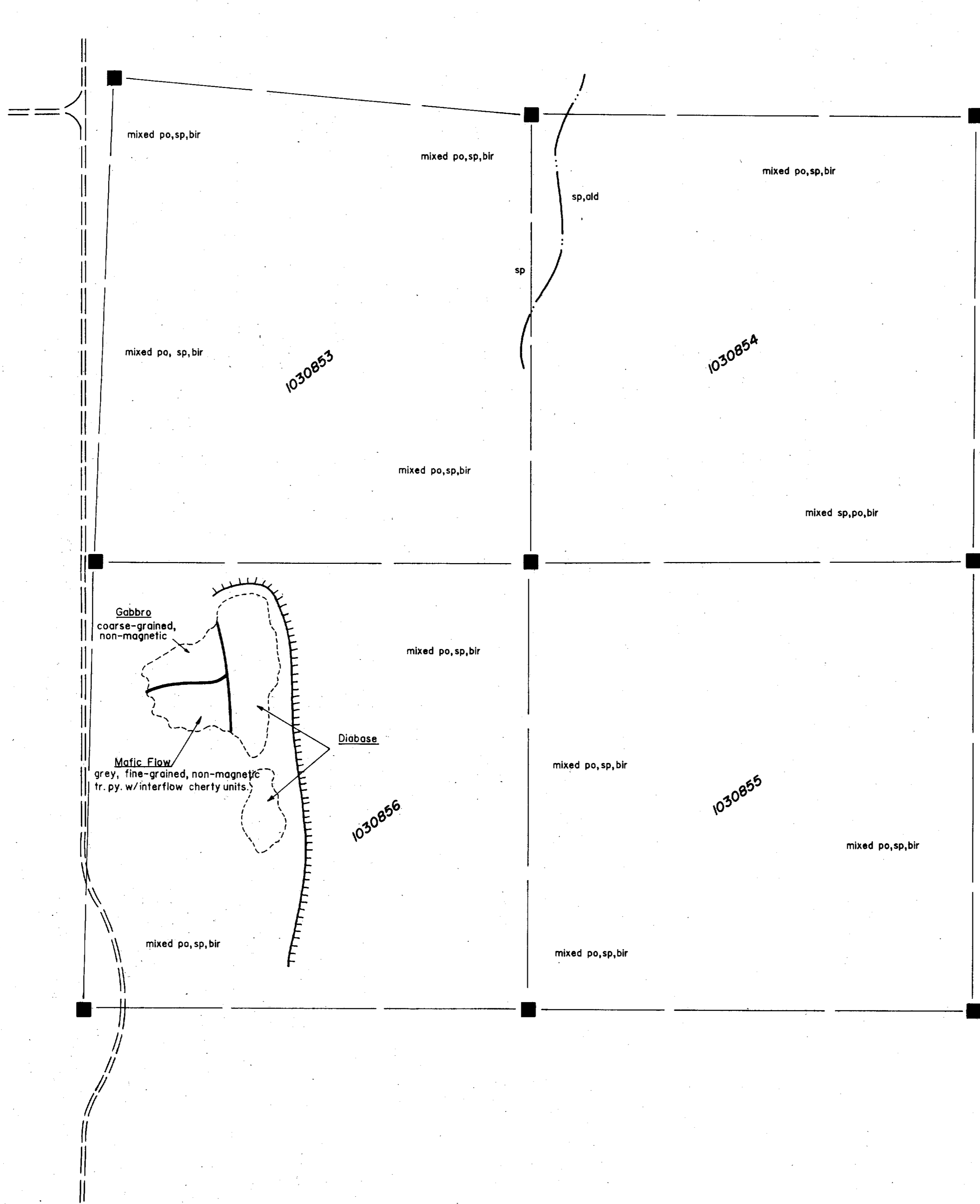
LEGEND

- Trail
- Claim Post-known
- Topographic slope
- Outcrop, small outcrop
- foliation, schistosity
- Lake and stream

2.11916

REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.		
	for	CROSS LAKE MINERALS	
	Title	CURRIE-BOWMAN PROJECT GROUPS 2 and 3	
	Date: Oct. 1968	Scale: 1:2500	N.T.S. Fig. 9
	Drawn: R.A./A.M.	Approved:	File: M288





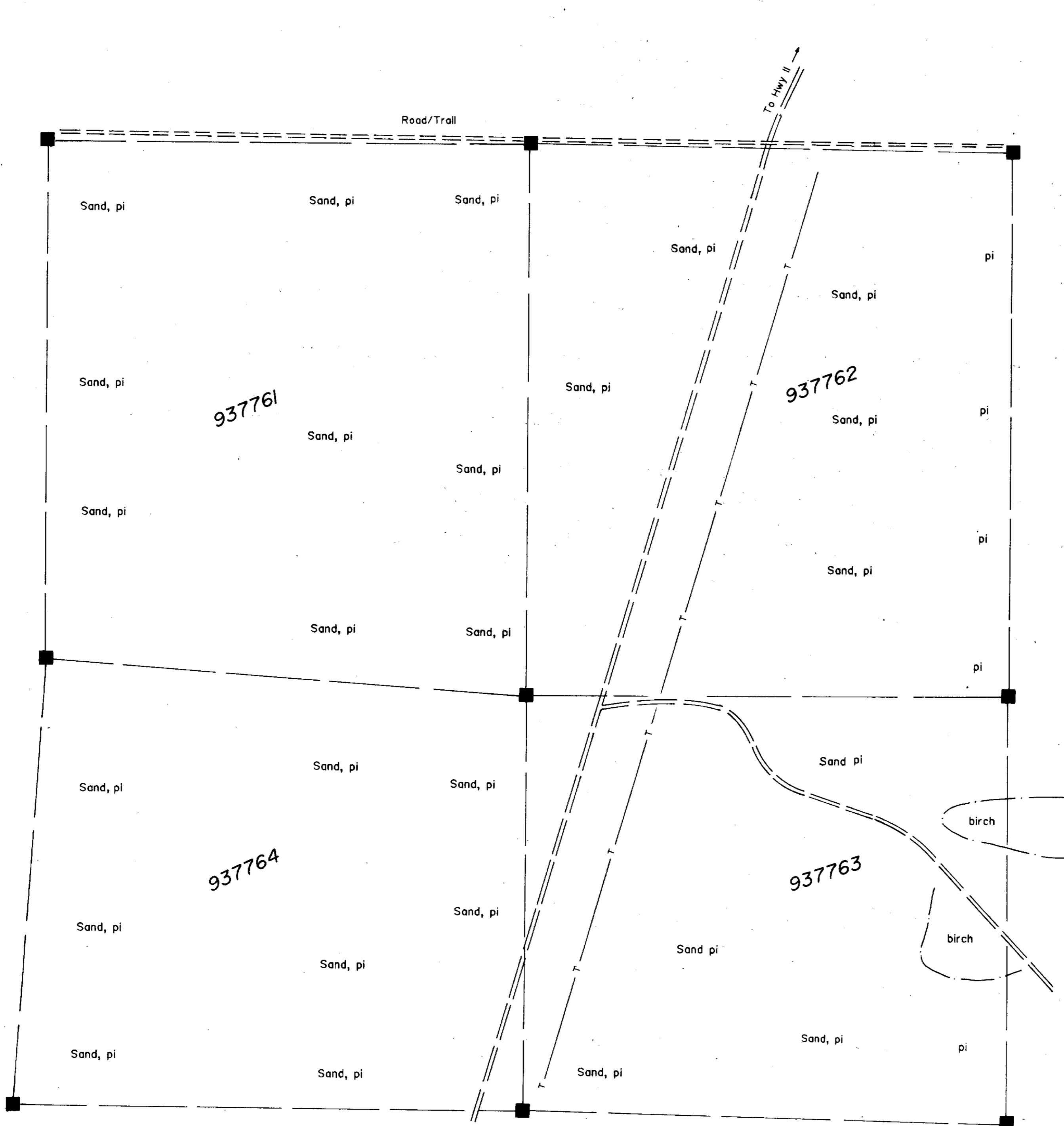
LEGEND

- Trail
- Claim Post-known
- Topographic slope
- Outcrop with geological contact
- Stream

2.11916

REVISIONS	 ROBERT S. MIDDLETON EXPLORATION SERVICES INC.		
	for	CROSS LAKE MINERALS LTD.	
	Title	CURRIE-BOWMAN PROJECT GROUP 4	
	Date:	Dec. 1988	Scale: 1:2500
	Drawn:	Approved:	N.T.S.: Fig. 10 File: M288





- LEGEND**
- Road
 - Trail
 - Telephone Line
 - Assumed Claim Post
 - Known Claim Post
 - 937763** Claim Number.

2.11916

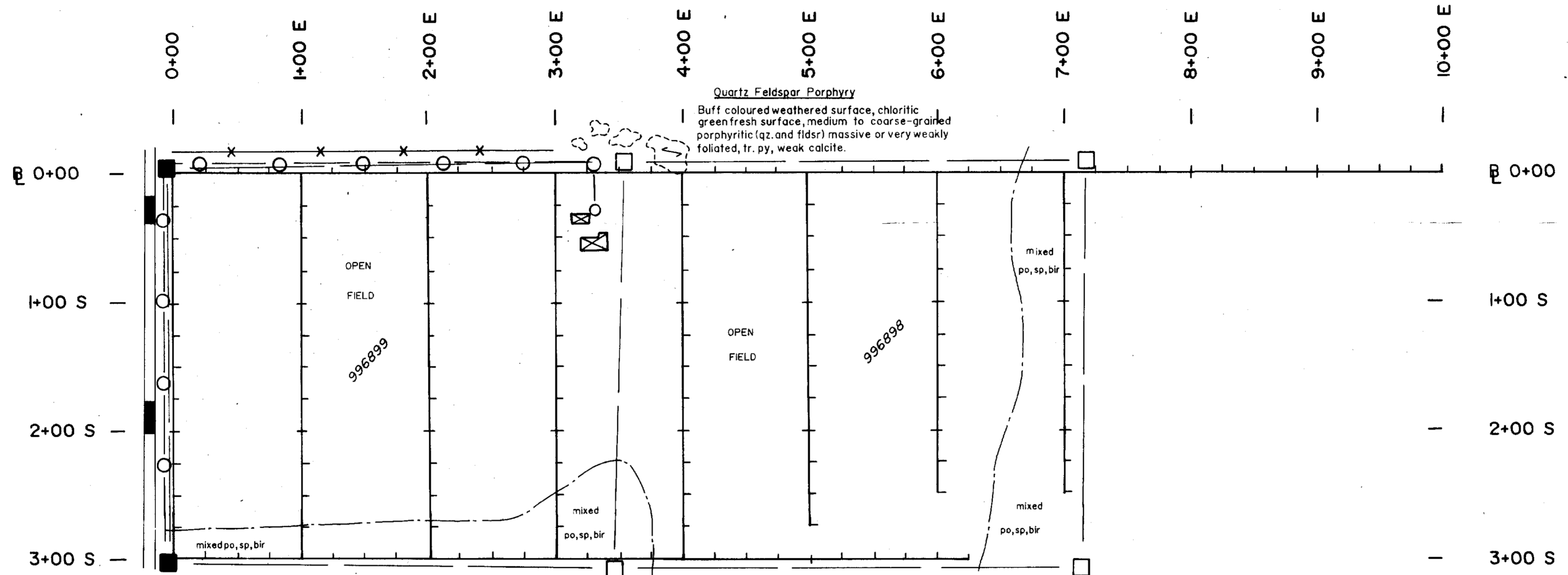
Robert S. Middleton

REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.		
	for	CROSS LAKE MINERALS	
	Title	CURRIE-BOWMAN PROJECT CLAIMS 937761-937764 INCL. GROUP 5	
	Date:	Oct. 88	Scale: 1:2500 N.T.S. Fig. II
	Drawn:	R.A./A.M.	Approved: File: M288







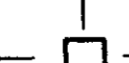
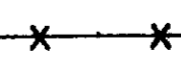
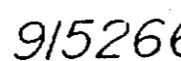
CONCESSION III

CONCESSION III



- LOT 2 -

LEGEND

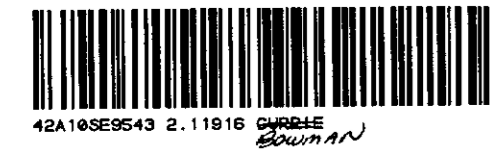
-  Building
-  Road
-  Power Line
-  Known Claim Post
-  Assumed Claim Post
-  Fence
-  Claim Number

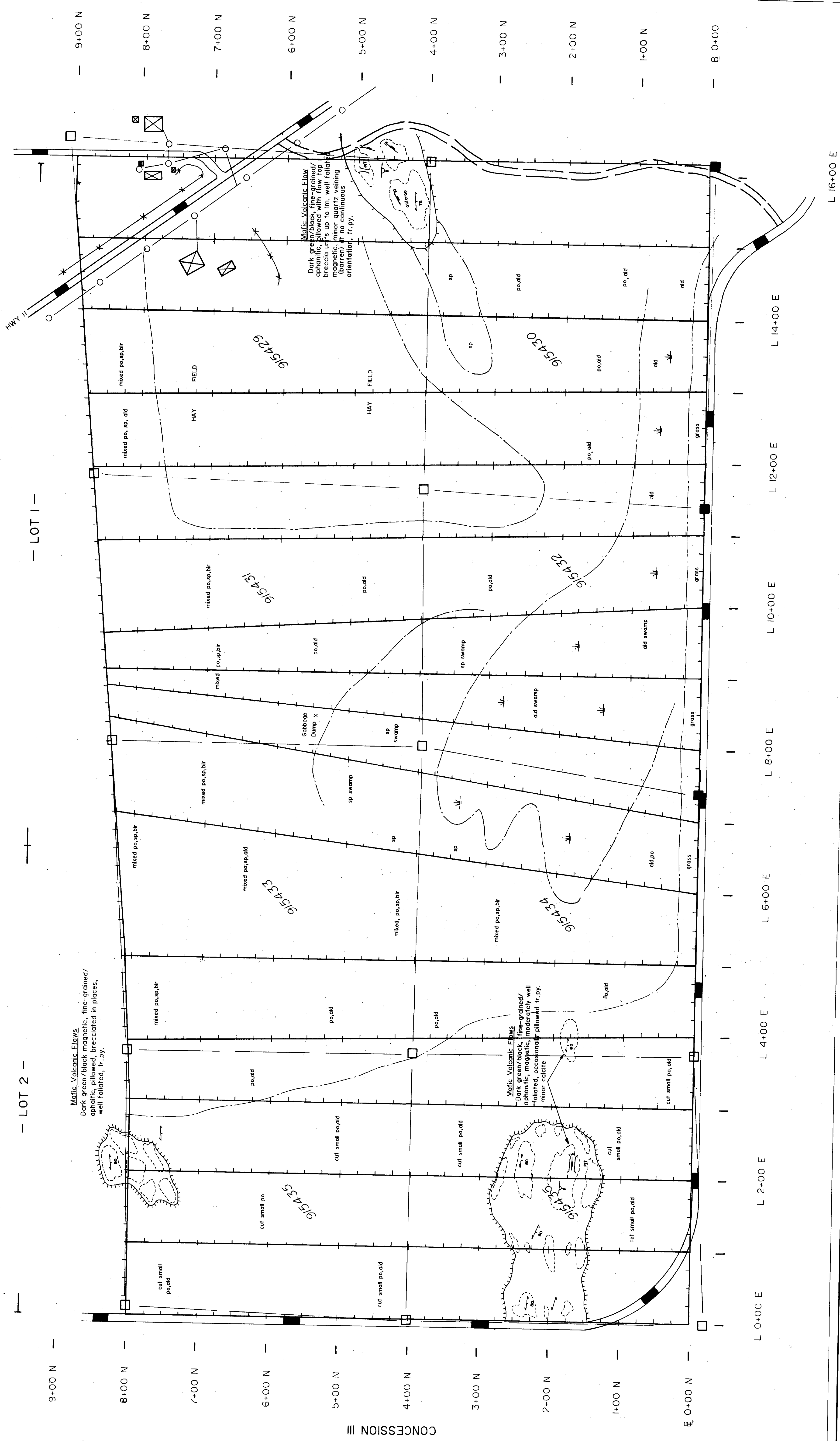
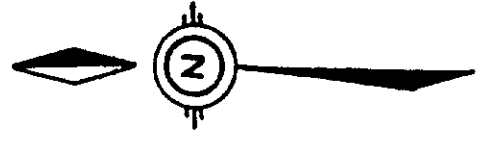
915266

Foliation, schistosity 2.11916

Rob A. Kennedy

REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.		
	for	CROSS LAKE MINERALS LTD.	
	Title	CURRIE-BOWMAN TWP. GRID 5 GROUP 6	
	Date: Dec. 87	Scale: 1:2500	N.T.S.: Fig. 12
	Drawn: B. S. B.	Approved:	File: M-288





SYMBOLS

Flow top direction

Ox vein orientation with thickness in cm.

Foliation with dip

PH

LEGEND

Road

Power Line

Known Claim Post

Assumed Claim Post

Fence

Claim Number

Body of Water

Trail

Building

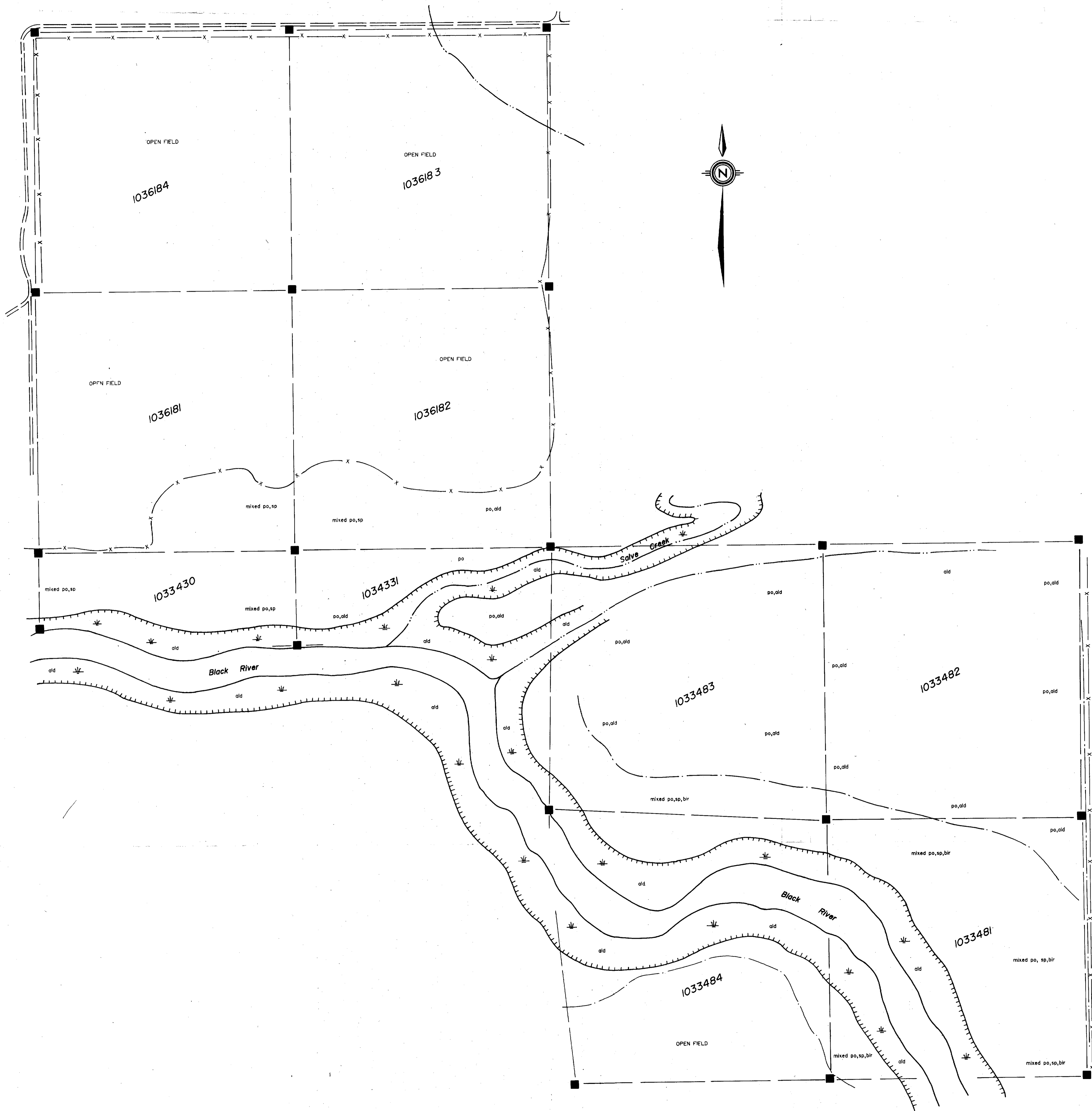
915266

2.11916

REVISIONS

ROBERT S. MIDDLETON
EXPLORATION SERVICES INC.
for
CROSS LAKE MINERALS LTD.
TITLE
CURRIE-BOWMAN TWP.
GROUP 6

Date: Dec 87 Scale: 1:5000 N.T.S.: Fig. 15
Drawn: S.S.B. Approved:



LEGEND

- Trail
- Claim post - known
- Topographic slope
- Outcrop, small outcrop
- Faultion, schistosity
- Lake and stream
- Claim number

2.11916

REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.		
	for CROSS LAKE MINERALS LTD.		
	Title CURRIE-BOWMAN PROJECT		
	GROUP 8		
Date: Nov. 1988	Scale: 1:2500	N.T.S.	Fig. 14
Drawn: R.A./A.M.	Approved:	File:	4268

