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<u>REPORT ON</u> <u>GEOPHYSICAL SURVEYS</u> <u>AND</u> <u>TRENCHING</u> <u>OSSIAN TOWNSHIP PROPERTY</u> <u>FOR</u> <u>FIRESPUR EXPLORATIONS LTD</u>.

Toronto, Ont. Sept. 4, 1985

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Robert L. V. Ekstrom B.A.Sc. P. Eng.

# RECEIVED

SEP 0.9 1985

MINING LANDS SECTION



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#### SUMMARY

Linecutting, geophysical surveys and trenching were carried out on the Firespur Explorations Limited (c/o John Tokarsky, 8th floor, 88 University Ave., Toronto) property in Ossian Twp., Ont. during July, 1985. The property consists of seven unpatented claims lying five miles northeast of Virginiatown (24 miles east of Kirkland Lake) and accessible by road.

Exploration has been going on in the area since the early 1900's and the showing on the property near Glover Lake was discovered in 1933. Samples taken during the early work gave assays of 0.05 - 0.42 oz. Au/ton. Silt samples taken over the showings were reported to be 0.01 to 0.03 oz. Au/ton. Extensive trenching was done in the southeast part of the group but no data have been located concerning this work.

The group is underlain by Archian massive and pillowed volcanic rocks of basic to intermediate composition. Strikes are ENE and dips are steep. Some feldspar porphyry dykes have been discovered.

Magnetometer and VLF-EM surveys were carried out on the newly cut grid of picket lines.

Two main magnetic anomalies were located which parallel the general rock trend. One of the anomalies gives evidence of the offset of a NNW trending fault passing through Gardner Lake. The anomalies are on more magnetic bands of volcanics.

Seven VLF-EM conductors were located. Three of these are probably soil conductors and soil has influenced the profiles on the west ends of two others. The four conductors thought to be caused by bedrock conditions are weak and may be caused by shears or very weakly conductive sulphide zones. All the conductors are covered by overburden or water.

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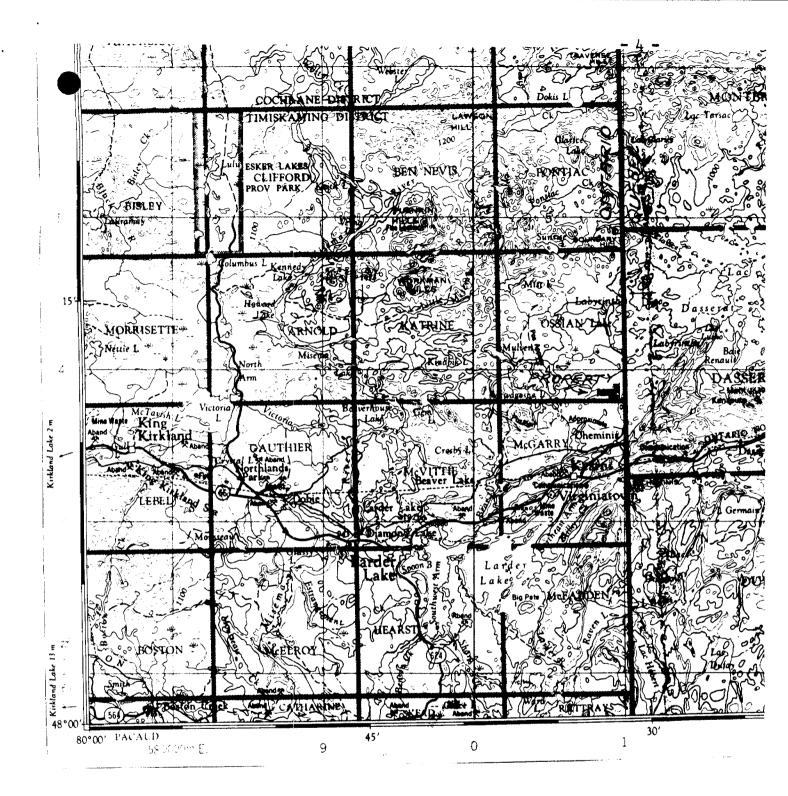
Trenching was carried out at the original Glover Lake showing and other locations. Sixteen rock samples and one silt sample were taken. Fire assays on the rock samples returned values of less than 0.01 oz. Au/ton. Geochemical analysis of the silt sample gave 18 ppb in gold. The results on the samples from the trench at Glover Lake did not confirm the better results

of the original work.

#### PROPERTY, LOCATION AND ACCESS

The Firespur Explorations Limited property consists of seven unpatented mining claims (L807415 - 807421, incl.) in the southeast corner of Ossian Township, Larder Lake Mining division, northeastern Ontario. The property is five miles north northeast of Virginiatown (the location of the Kerr Addison gold mine) and twenty-four miles east of Kirkland Lake close to the Ontario-Quebec border.

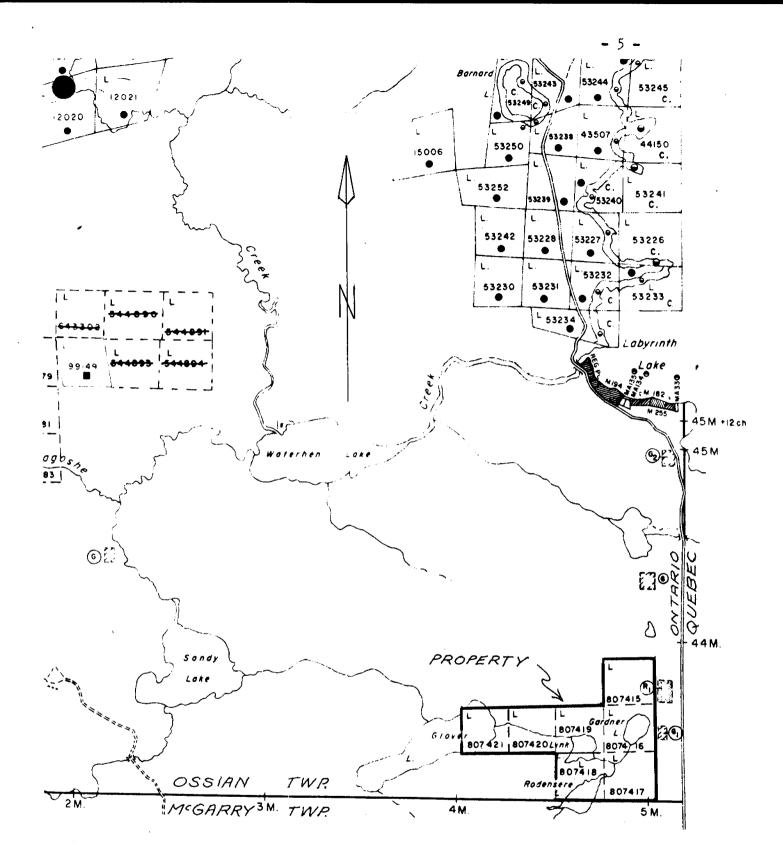
The property is readily accessible by motor vehicle from Highway 66 using the gravel all-weather road to Cheminis and Labyrinth Lake. A driveable bush road branches west to the property some two miles north of Cheminis.



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Gonadian Oresearch Inc. FIRESPUR EXPLORATIONS LTD. PROPERTY LOCATION MAP OSSIAN TWP, ONT.

Scale 10 mi. 5 



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Conadion Oresearch Inc. FIRESPUR EXPLORATIONS LTD. CLAIM LOCATION MAP OSSIAN TWP., ONT. Scale: 2 in. = 1 mj.

#### ENVIRONMENT

The topography in the claim group is relatively flat with a maximum relief of seventy-five feet. Soils appear to be clay, silt and sand from west to east with a north-south esker crossing the east end of the claims. Two small (10-20 acre) lakes lie within the claims and parts of two others enter the west and south boundaries. Alder swamps join three of the lakes. Gardner Lake, on the side of the esker in the eastern part of the group, has no surface exit and is probably a kettle.

Timbering has been done on parts of the area and scarification and reforestration with spruce and jack pine has been done. The remainder of the area is forested with spruce and jackpine with some birch and poplar. Some soft maple trees were seen on the eastern sand ridge.

Several outcrop ridges were noted but overburden, swamp and lake areas are extensive and outcrop exposure is estimated at less than one percent.

#### HISTORY

The first geological mapping in Ossian Township was reported by W. J. Wilson in 1901. Major prospecting followed with a report of work at Ossian Gold Mines Limited (in the north-central part of the township) as early as 1926.

The showing at Glover Lake on the west end of the current claim group was discovered in 1933 and subsequent work by Norontic Gold Mines Limited located extensions and adjacent veins up to 4000 feet east of the discovery. None of the eastern trenches were seen in the current work. It is believed that the trenches were destroyed by the scarification carried out to facilitate reforestration.

Evidence of extensive trenching were seen on claim L807418. The work follows a feldspar porphyry dyke cutting basalt. Minor pyrite and irregular small quartz veins were seen. No reports of this work have been located.

#### GEOLOGY AND MINERAL DEPOSITS

The claim group is shown to be underlain (ODM Map 2236) by Archean basic and intermediate volcanic rocks. Massive and pillowed basalt, andesite and dacite are noted. Gabbroic flows were seen west of Link Lake. Strikes are ENE and dips are steep.

Reports on the work by Norontic Mines indicated the presence of quartz veins with gold at Glover Lake and in the showings to the east. Assays reported ranged from 0.05 to 0.42 oz. Au/ton.

Gold has been detected in the sands, silts and gravels in the Twp. and samples of silt from the Norontic showings assayed from 0.01 to 0.03 oz. Au/ton.

#### WORK DONE

A grid of lines was cut using an east-west base line and north-south cross-lines at 400-foot intervals except on claim L807415 where three lines were cut at 300-foot intervals. Pickets were placed at 100-foot intervals along all lines.

Magnetometer and electromagnetic surveys were carried out on the grid lines.

- 7 -

Trenching was carried out on the original showing at Glover Lake and stripping and trenching was done some 1700 feet east of Glover Lake in the possible Norontic number two vein area. Sixteen rock samples and one silt sample were taken.

#### MAGNETOMETER SURVEY

The magnetometer survey was completed using a McPhar GP-81 Proton Magnetometer. The instrument is equipped with a staff-mounted sensor-head, has a sensitivity of one gamma, an accuracy of ±10 gammas and direct LCD read-out of the total magnetic field. Base stations were tied-in at convenient locations along the grid and loop-traverses were completed with base station tie-ins at less than one hour and a half intervals. Readings were taken at 100 foot intervals with interim readings at anomalous gradients. Magnetic variation was very flat during the survey with a maximum correction of eleven gammas.

Corrected readings were plotted at 1" = 200 and contoured at 100 gamma intervals. An attempt to draw 50 gamma contours did not enhance the interpretive quality of the map.

The survey located two northeast trending anomalies. The more northerly extends from the west side of Link Lake towards the north end of Gardner Lake and continuing east from the east side of Gardner Lake.

The second lies north of Rodensere Lake in the area of old trenches previously noted.

#### ELECTROMAGNETIC SURVEY

The electromagnetic survey was carried out using a

- 8 -



Crone Radem VLF EM receiver. Dip angles were taken while receiving Cutler, Maine transmitting at 24.0 K Hz. Readings were taken at 100' intervals. The readings were plotted on the 1" = 200' map and profiled at 1" = 20°.

Seven conductor axes have been interpreted. Conductor A and C are on swamps and the lines running into lakes show anomalous: build-ups. Both conductors E and F have increased amplitude near their west ends near swamps or lakes. Anomaly E lies on the flank of a magnetic anomaly.

#### TRENCHING

Trenching was carried out at the old showing at Glover Lake and trenching and stripping at the No. 2 vein location east of Glover Lake at 1700E, 2505; 1710E, 1105; and 1750E, 0655. Chip samples were taken. The Glover Lake trench proved to be very difficult to re-open. The silt had refilled the original trench and due to water content, during the present work, the silt flowed back into the trench while the work was in progress.

Grab samples were taken at some of the trenches located north of Rodensere Lake.

The following is a list of samples taken:

Sample <u>No</u> ,	Location		Remarks		
A9 <b>24</b>	Glover Lake *24	•5-26.0S	Qtz. veins in andesite, Minor py.		
A <b>925</b>	" 23.	0-24.55	Massive, jointed andesite		

\* Samples at Glover Lake are measured from zero at the north end of trench. Trench 0.0' is at Grid 050W, 050S.

0-7.05 - massive, glaciated volcanics, never sampled or blasted.

26-43.5 - Massive intermediate volcanics.

Sample No.	Locat:	ion	Itemarks
A92 <b>6</b>	Glover Lake	17 <b>.5-</b> 23.05	Massive intermediate volcanic. Two small white quartz veins at 18.0S
A927	19	15.0-17.58	Massive mfg andesite
A928	n	11.0 <b>-1</b> 5.0S	Massive fg andesite. Two small qtz. veins
A9 <b>29</b>	łt	7.0-11.0S	Massive fg andesite
A930	11	50 <b>.0-</b> 53.0S	vfg intermediate volc. Qtz. vein zone 50.5-51.4 Minor py
A931	n	43.0 <b>-</b> 46.0S	vfg interm. volc., fractured, qtz. lenses, py blebs, chloritic slips.
A9 <b>32</b>	11	46.0 <b>-</b> 50.0S	massive fg int. volc., minor py specks.
Á933	n	58.0 <b>-</b> 63.0S	Fg andesite, minor qtz veinlets. 1" qtz-carb vein at 62.0S
A <b>-935</b>	11	18.05	Silt from undisturbed wall of trench.
A934	1750E, 065S		Channel across 2.0' N-S Two 6" cataclastic qtz veins with wallrock frags. Schistose chloritic and silcified wallrocks. Minor py.
A9 <b>36</b>	1710E, 110S		Channel across 210' Two 3" qtz. veins and altered wallrocks minor py.
A <b>-</b> 940	1700E, 250S		Channel across 2.0' Irregular qtz veins to 2" in altered volc.
A93 <b>7</b>	Rodensere L.	2800E, 1600S	Grab, minor qtz, py. Alt. basic volc.,epidote
A9 <b>38</b>	11	2400E, 1615S	Grab, Feldspar porphyry, diss. py cubes, minor white qtz vns.
A939	11	2330E, 1670S	Grab. As above.

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The samples were assayed at the Geoscience Laboratories of the MNR. All of the rock samples returned assays (five samples) of less than 0.01 oz. Au/ton. The single silt sample (A935) was geochemically assayed and returned 18 parts per billion of Au (equivalent to 0.00052 oz. Au/ton).

#### CONCLUSIONS

The magnetic anomaly extending NE from the west side of Link Lake is probably on a more magnetic phase of the observed gabbroic flow. The apparent offset at Gardner Lake is probably caused by the NNE trending fault shown on the ODM Map 2296.

The anomaly north of Rodensere Lake may be on the more basic basalts observed in the trenches or increased magnetite as a result of alteration along the porphyry dyke.

Electromagnetic anomalies A and C and the anomalous build-up on the lines terminating at lakes are probably due to conductive wet soils in swamps and lake bottoms. Conductive soils similarly increase the amplitude at the west ends of anomalies E and F. The long south dip build-up to the north of anomaly D prbably indicates a buried clay conductor.

Anomalies B, E, F and G are weak but probably are true bedrock conductors. Anomaly E lies on the flank and parallel to a magnetic anomaly and may be formaticnal in nature. The conductors may be wet shears or very weakly conductive sulphides. All the conductors are in covered areas.

The sample analyses were low and did not confirm any of the better original assays.

Respectfully submitted

Robert L. W. Ekstrom B.A.Sc. P. Eng.

Toronto, Ont. Sept. 4, 1985

# REFERENCES

J. B.	Currie	Ossian Twp, Dept of Mines & Tech. Surv. GSC Paper 50-6, Ottawa 1950			
L. S.	Jensen	Geology of Pontiac & Ossian Twps ODM Geol. report 125, 1975			
E. W.	Middleton ·	Through Norontque with a Kodak, Oct. 1933			
Norontic Gold Mines - various reports, letters, newspaper items, etc.					

### MAPS

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2296	-	accompanying GR 125
P150	-	Preliminary Geological $1" = 2 \text{ mi.}$
P630	~	Ossian Twp. $l'' = 1/4$ mi.
P <b>249</b> 0	-	Sand & Gravel Resources 1:50,000
47G	-	Airborne Magnetometer 1:50,000

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Ministry ofOntarioNaturalGeologicalResourcesSurvey

77 Grenville Street 11th Floor Toronto, Ontario M5S 1B3 Telephone 965-1337

M4G 3M3

Geoscience Laboratories Report

SILVER OZ./TON

issued to:

R. EKSTROM 1 ROLPH ROAD TORONTO, ONTARIO 0 18000

SAMPLE	GOLD OZ./TON
A924	<0.01
925	<0.01
926	<0.01
927	<0.01
928	<0.01
929	<0.01
930	<0.01
931	<0.01
932	<0.01
933	<0.01
934	<0.01
936	<0.01
937	<0.01
938	<0.01
939	<0.01
940	<0.01

FEES RECEIVED: 16 Comps. Cand # 3554

CHRIS CHIEF ANALYST

SEPTEMBER 4,1985

Except by special permission reproduction of these results must include any qualifying remarks made by this ministry with reference to any sample.



Ministry of<br/>NaturalOntario<br/>GeologicalResourcesSurvey

77 Grenville Street 11th Floor Toronto, Ontario M5S 1B3 Telephone 965-1337

Geoscience Laboratories Report

Issued to:

R. EKSTROM 1 ROLPH ROAD TORONTO, ONTARIO M4G 3M3 0 23721

SAMPLE # A935

Gold (Au) 18 ppb

1 Caup. land # 3554 FEES RECEIVED:

CHRIS RIBBLE, CHIEF ANALYST

SEPTEMBER 4, 1985

Except by special permission reproduction of these results must include any qualifying remarks made by this ministry with reference to any sample.

	Ministryof
$(\mathcal{Q})$	Natural
U)	Resources
Ontario	

Work Permit

Under The Forest Fires Prevention Act and the regulations, and subject to the limitations thereof and subject also to the terms and conditions herein, this permit is issued to:

Name of Permittee							
·····	Canadian Oresearch	Inc.					
Post Office Address	l Rolph Rd. Toronto, Ontario.	M4G	3M3				
To conduct an operation on the following work	ion from the 19th day of	July		to and including the 17th	day of	August	, 19 85 ,

Ossian Township (shown on attached map)

For the purpose of mining operations (2employees)

#### Subject to the following conditions

- 1. The Permittee shall keep this permit or a true copy thereof on the work permit area.
- 2. The person in charge of the operation conducted under this permit shall produce and show this permit or the true copy kept on the work permit area to any officer whenever requested by the officer.
- 3. Other conditions:

Under the Forest Fire Prevention Act and your Application for Work Permit, your operation requires fire equipment as follows: 1 shovel and 1 axe.

Please note: Fire equipment must be located within 500 feet of mechanical equipment and workers on job site.

All buildings must be removed on termination of work. Upon abandonment, work area to be cleaned up in a manner satisfactory to this Ministry.

Work Permit No. KM -- 159

Place of Issue		Date of Issue	Signature of Issuing Officer
	Swastika, <u>Ontario</u>	July 19, 1985	Marchiften
Important			7

Important

Separate authority must be obtained before cutting any timber and before doing any burning.

This permit does not authorize the permittee to carry on operations on privately held land, as such authority can be given only by the owner of the land.

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GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

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

Type of Survey(s) TACHE TOM	TER & ELEC TROMAGNETIC	
Township or Area 531A1	V TWP.	MINING CLAIMS TRAVERSED
Claim Holder(s) FIRE SPUE	R EXPLORATIONS	List numerically
	LIMITED	
Survey Company CANAPIAN	ORESEARCH INC.	L 807415
Author of Report ACGERY	K.V. EKSTROM	(prefix) (number)
Address of Author IROLPH	D. TORONTO, ONT	
Covering Dates of Survey JULY	17 - AUG 2, 1985	<u> 6 807417</u>
	30 miles	L 807 418
		2 807419
SPECIAL PROVISIONS	DAYS	L 807420
CREDITS REQUESTED	Geophysical per claim	
	Electromagnetic 20	6807421
ENTER 40 days (includes	–Magnetometer <u>40</u>	
line cutting) for first survey.	-Radiometric	
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837 (5/79)

**OFFICE USE ONLY** 

## GEOPHYSICAL TECHNICAL DATA

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	Corrections made	
GRAVIT		
ତି	Base station value and location	
	Elevation accuracy	
	Instrument	
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	Parameters – On time	
IX	Off time	Range
IVI	– Delay time	
RESISTIVITY	Integration time	
RES	Power	
	Electrode array	
	Electrode spacing	
	Type of electrode	

September 17, 1985

File: 2.8426

Mining Recorder Ministry of Natural Resources 4 Government Road East Kirkland Lake, Ontario P2N 1A2

Dear Sir:

We received reports and maps on September 9, 1985 for Geophysical (Magnetometer and Electromagnetic) Surveys submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims L 807415 to 21 inclusive in Ossian Township.

This material will be examined and assessed and a statement of assessment work credits will be issued.

We do not have a copy of the report of work which is normally filed with your office prior to the submission of this technical data. Please forward a copy as soon as possible.

Yours sincerely,

S.E. Yundt Director Land Management Branch

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

A. Barr:mc

cc: Firespur Exploration Limitéd c/o J. Tokarsky 8th Floor, 88 University Avenue Toronto, Ontario M5J 1T6

File No 2. 8426

Mining Lands Section

### Control Sheet

TYPE OF SURVEY \_/ GEOPHYSICAL

GEOLOGICAL

GEOCHEMICAL

EXPENDITURE

#### MINING LANDS COMMENTS:

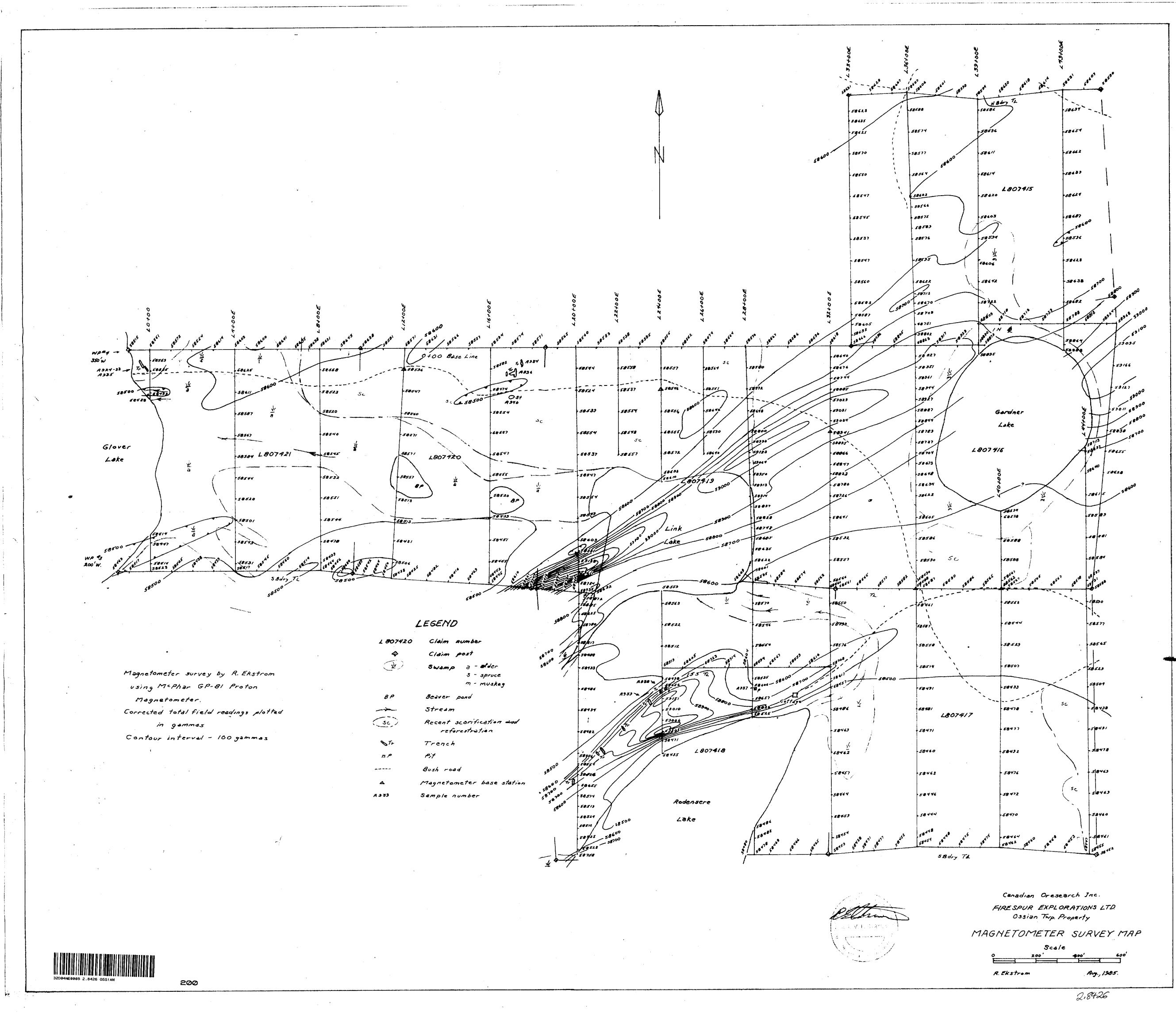
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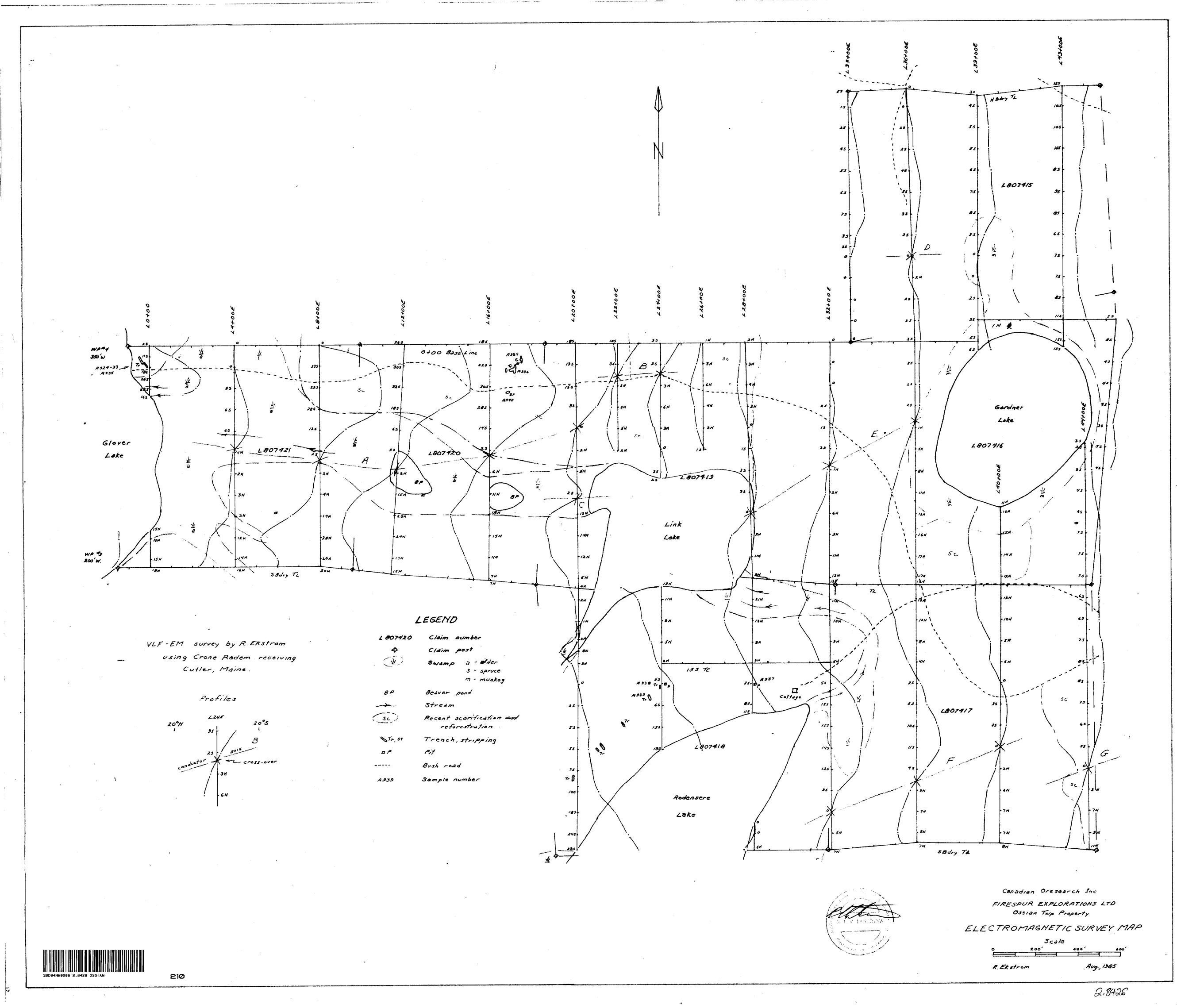
Signature of Assessor

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Date

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L 807420	Claim aumber
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BP	Beaver pond
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