

REPORT ON

MAGNETIC SURVEY

EAST BLACK PROPERTY

LEBEL TOWNSHIP

LARDER LAKE MINING DIVISION

ONTARIO

RECEIVED MINING LANDS SECTION MICHAEL LEAHY

2.2689 2.2689

INTRODUCTION:

The property herein described consists of two contiguous unpatented claims located at the center of the west boundary of Lebel Township, Larder Lake Mining Division, Ontario. The property lies on the eastern outskirts of the town of Kirkland Lake about 3,000 feet south of Highway 66 and the Toburn Mine property. Two powerlines, one along the township line and the second along the central claim line, traverse the property. The total area covered by both claims is about 50 acres. The claims are numbered as follows: L-893697 and L-893818.

ACCESS:

The property is accessible from the parking lot of the Kirkland Lake Community Complex, situated in the south-east section of the townsite of Kirkland Lake, off of Allen Avenue. The #4 post of L-893697 lies about 50 feet south of the cross-country ski trail as it emerges onto the powerline, approximately 500 feet from the parking lot.

HISTORY:

The claims were mapped at a scale of 1" = 1000' from 1936-1939 and appear on coloured geological map #53a, 1944 which accompanies the report covering the township. An airborne mag. and EM survey funded by The OGS [Map P2264] covers all of Lebel Township. Some old trenches were found by the author; but to his knowledge no further work has been done on the property.

GEOLOGY:

The claims are underlain by steeply dipping Timiskaming sediments including conglomerate, graywacke and tuffaceous rocks. The tuffaceous unit sandwiched between two conglomerate bodies has been altered by porphyritic intrusion and it is cut off to the south by the NE trending North Harvey fault zone.

MAGNETIC SURVEY:

On May 17, 1987, a magnetic survey was carried out over the property. A baseline was established along the north boundary with lines running south from it at 400' intervals. All lines were chained with stations established every 100'. A total of 1.3 miles of line were traversed and readings were taken. The instrument used was a Geometrics proton magnetometer with an accuracy of +- 1 gamma. Readings were plotted on a map with a scale of 1" = 100' and values were contoured at 100 gamma intervals. The purpose of the survey was to locate geological boundaries between the different rock units present on the property.

RESULTS OF MAGNETIC SURVEY:

Magnetic relief over the group was found to be quite low with readings ranging from 58,000 gammas over the graywacke and tuff to 60,000 gammas over local highs in the conglomerate. The most prominent feature is a fold near the west boundary where the strike varies 90° from the normal E-W direction. Evidence of the North Harvey fault was not apparent although the folded unit appears to be cut off by the fault just south of the survey area, [see geology map].

CONCLUSIONS AND RECOMMENDATIONS: The magnetic survey corroborates the mapping depicted on Map 53a although the North Harvey fault was not located. Two miles to the east along the Harvey fault system the Highland Kirkland shaft and workings including significant gold mineralization can be found in similar porphyritized sediments. Since most gold mineralization in the area is structure- related a VLF-EM survey is recommended to try to locate the North Harvey fault along the south boundary of the East Black property. Further work on the group would be considered as results warrant, eg. if the fault is located a gold in humus geochem survey would be recom-

mended.

Michael Leahy

CERTIFICATE

THIS IS TO CERTIFY THAT:

- I am a graduate in Prospecting Techniques from the Northern College of Applied Arts and Technology, Haileybury campus, 1976. I have been active as a prospector and exploration contractor since 1974.
- 2. I am a member in good standing of the P.D.A., C.I.M.M., and I reside and hold office at 139 Carter Ave., Kirkland Lake, Ontario.
- 3. I have no interest in this property.
- 4. My report is based upon having personally carried out the magnetic survey, interpretation of the results, and upon my familiarity and experience as a prospector in the Kirkland Lake gold area.

Kirkland Lake, Ontario July, 1987

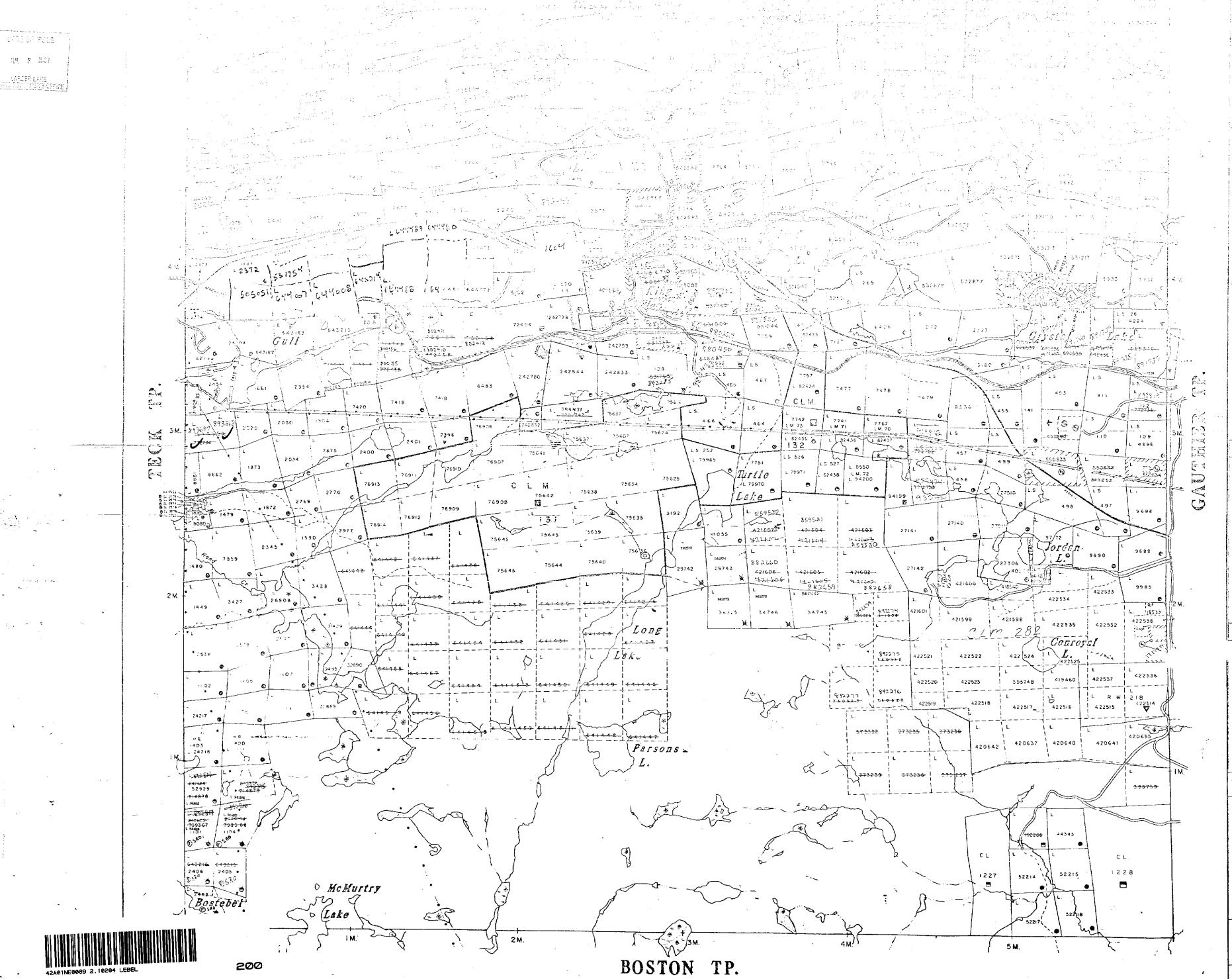
Signed Michael Leahy Prospector

MichaelLeaby





	AND ISIMINIA	t was the com	
	f		Instructions: - Please type or print.
Ministry of Northern Development	Repor: of Work		15 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 "Expenditures" section as the columns.
and Man	(Geophysical, Geo Geochemical and	ological, Expenditut	res) 232/87 Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
ю	Getichemical and	Expension	Mining Act 2 10204 "Expenditures" section may be entered in the "Expend. Days Cr." columns. — Do not use shaded areas below. Township or Area
·			Township or Area LEBEL TP.
of Survey(s)			Prospector's Licence No.
MAGNETIC n Holder(s)			K20126
A B/ACK			
ress (107 CP	Ave. Ki	aklan	A LAKE VIV.
39 CARTER			Date of Survey (from & to) 17 05 87 (7 05 87) Day Mo. Yr. Day Mo. Yr.
MIEDHY			
ne and Address of Author (of	Cherry Aug.	Kirk	Mining Claims Traversed (List in numerical sequence)
1. LEAHY (39) lits Requested per Each CI	aim in Columns at rig	ht	Mining Claim
cial Provisions	Geophysical	Days per Claim	Mining Claim Expend. Prefix : Number Days Cr. Prefix : Number Days Cr.
For first survey:	. Electromagnetic		L 893697
Enter 40 days. (This includes line cutting)	• Magnetometer	40	893818
IUCINOS IIIIE COLLINA	- Radiometric	<u> </u>	
For each additional survey: using the same grid:			
Enter 20 days (for each)	- Other		
	Geological		
	Geochemical		
an Days	Geophysical	Days per Claim	
Complete reverse side	' - Electromagnetic		RECEIVED
and enter total(s) here	. Magnetometer		
	- Radiometric		JUN 1 5 1987
	- Other		MINING LANDS SECTION
	Geological		
	Geochemical	Days per	
Airborne Credits		Claim	
Note: Special provisions	Electromagnetic		
credits do not apply to Airborne Surveys.	Magnetometer		
	Radiometric		
expenditures (excludes pov	ver stripping)		J WAY DE 13
Type of Work Performed			9.30 4 77
Performed on Claim(s)			
Celculation of Expenditure D	eys Credits	Total	
Total Expenditures	ا لــا لــ	ays Credits	Total number of mining
\$	+ [15] = [claims covered by this report of work.
Instructions Total Days Credits may be	apportioned at the claim	m holder's	For Office Use Only
Total Days Credits may be	lays credits per claim sel	ected	Total Days Cr. Date Recorded Recorded MAY 2.5 137 Mining Recorder Mining Reco
choice. Enter number of the			William Becorded Branch Birectory
in columns at right.		nt (Signature	ALL LOT PERFORMS OF ALL MANUALITY AND
in columns at right.	Recorded Holder or Age		" 8 1.08.28 PV M Champool
choice. Enter number of the in columns at right. Date May 2 < /87	Michael In	the	118108-20-11111
Date May 25 /87 Certification Verifying Re	Michael Les eport of Work	ehy_	of the facts set forth in the Report of Work annexed hereto, having performed the wor
Date May 25 /87 Certification Verifying Representation or witnessed same during	eport of Work we a personal and intimate and/or after its complete	ehy_	of the facts set forth in the Report of Work annexed hereto, having performed the work
Date May 25 /87 Certification Verifying Re	eport of Work we a personal and intimate and/or after its complet Person Certifying	te knowledge tion and the a	ge of the facts set forth in the Report of Work annexed hereto, having performed the work annexed report is true.



HU S EST

CRAMEL FILE 48784 O cravel e le modific

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 FTC. RAILWAY AND RIGHT OF WAY UTILITY LINES
MON-PERENNIAL STREAM FLOODING OR FLOODING RIGHTS SUBDIVISION OR COMPOSITE PLAN -ORIGINAL SHORELINE MARSH OR MUSKEG MINES

DISPOSITION OF CROVILL LAND.

TENT	<u>\$Y:</u>
PATENT, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	- t
LEASE SURFACE & MINING RIGHTS	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
" SURFACE RIGHTS ONLY	
" , MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
ORDER-IN-COUNCIL	٨_
RESERVATION	
CANCELLED	
SAND & GRAVEL	
NOTE: MINING RIGHTS IN PARCELS PATENTE! 1913, VESTED IN ORIGINAL PATENTE	PRIOR TO I

SCALE: 1 inch 20 chains

M.N.R. ADMINISTRATIVE DISTRICT KIRKLAND LAKE MINING DIVISION

LARDER LAKE LAND TITLES / REGISTRY DIVISION TIMISKAMING :



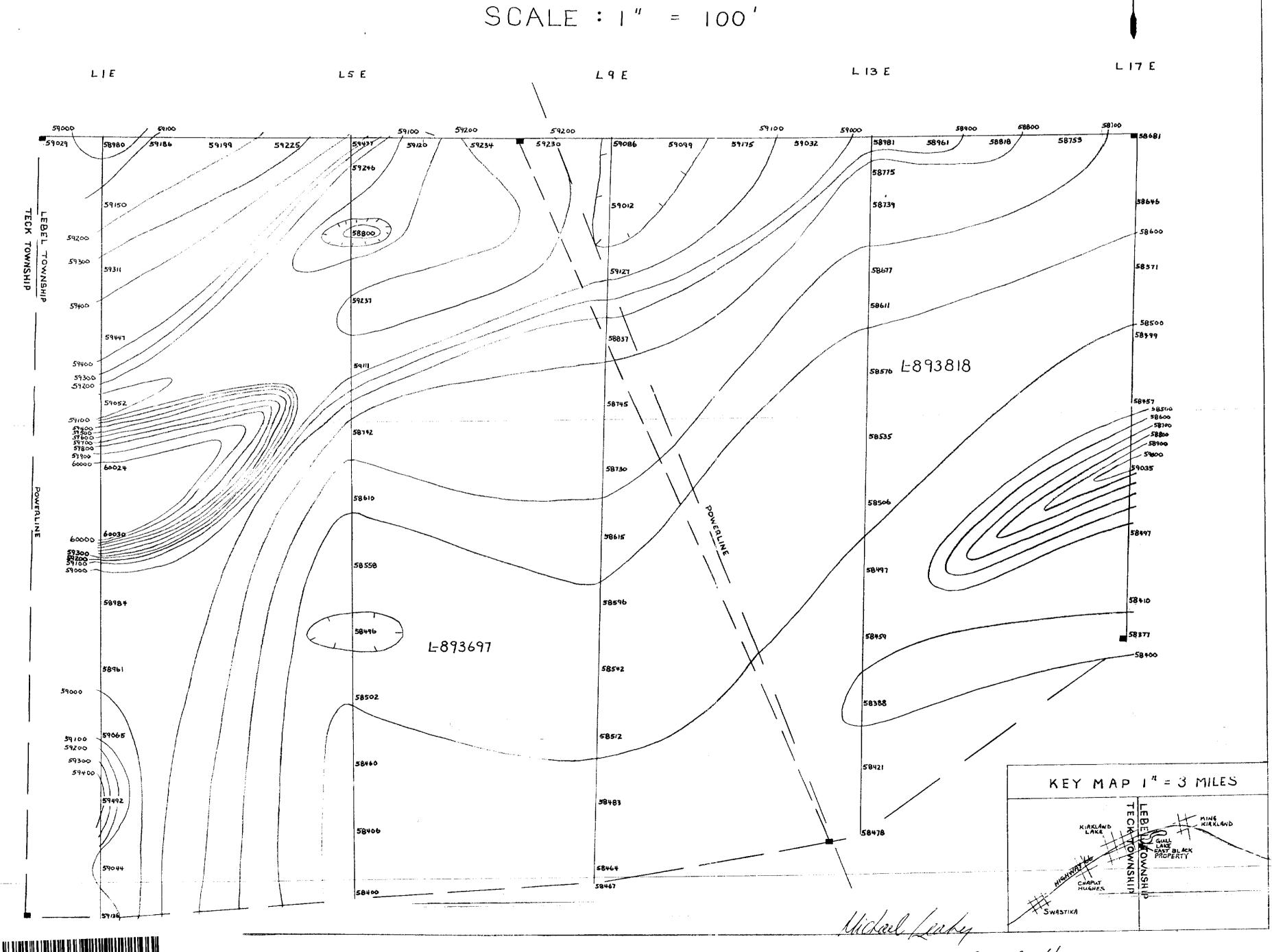
Ministry of Land Natural Management Resources Branch

MARCH 1982

G-639

MAGNETIC SURVEY EAST BLACK PROPERTY

LEBEL TOWNSHIP SCALE: 1" = 100'





2.10204