



42A01NE0078 2.11422 LEBEL

010

REPORT ON

2.11422

ELECTROMAGNETIC SURVEY

EAST BLACK PROPERTY

LEBEL TOWNSHIP

LARDER LAKE MINING DIVISION

ONTARIO

RECEIVED

JUL 25 1988

MINING LANDS SECTION

MICHAEL LEAHY

JULY, 1988

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 central claim line and the second along the township 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" equals 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; and, a Mag. survey was conducted in 1987; 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.

EM-VLF SURVEY: On May 14, 1988, an electromagnetic survey was carried out over the property. A baseline was established along the north boundary with lines running south from it at 200' and 400' intervals. All lines were chained with stations established every 50'. A total of 1.2 miles of line were traversed and 111 readings were taken. The instrument used was a Geonics EM-16 receiver with Cutler, Maine as the transmitter, at 24.0 MHz. All readings were taken facing north making north dips positive. Results were plotted on a base map with a scale of 1 inch = 100'. Vertical scale of the resulting profiles was 1 inch = 50%. The out of phase reading was also read and plotted with a vertical scale of 1 inch = 50. The purpose of the survey was to locate the North Harvey fault along the south boundary of the East Black property.

RESULTS OF ELECTROMAGNETIC SURVEY: One zone of electromagnetic conductivity was defined by the survey. This conductor lies along the contact between dry and wet ground along the south boundary of the claims. No bedrock conductors appear to cross the claims. Some interference from the power lines was seen but it did not impair the interpretation of the results.

CONCLUSIONS AND RECOMMENDATIONS:

Since no bedrock conductors were defined by the survey, the presence of strong shear zones or massive sulfide deposits near surface can be discounted. Follow-up work should be limited to further prospecting for quartz veins or areas of disseminated mineralization, both of which are known to carry gold values in the immediate area of the Kirkland Lake camp. The North Harvey fault mentioned above probably lies just south of the claims and would appear to dip vertically or steeply to the south, away from the claims surveyed.

CERTIFICATE

THIS IS TO CERTIFY THAT:

1. 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 N.P.A., 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 supervised the electromagnetic survey, interpretation of the results, and upon my familiarity and experience as a prospector in the Kirkland Lake gold area.

Kirkland Lake, Ontario
July, 1988

Signed
Micheal Leahy
Prospector

Michael Leahy

*True
2-26-89*



Mining Act

Land Management

Type of Survey(s): **GEOPHYSICAL - EM/VLF 2.11422** Township or Area: **LEBEL TWP.**

Claim Holder(s): **ANN BLACK** Prospector's Licence No.: **K20126**

Address: **PO Box 535, KIRKLAND LAKE, ONTARIO P2N 3J5**

Survey Company: **MICHAEL LEAHY** Date of Survey (from & to): **14 05 88** to **14 05 88** Total Miles of line Cut: **1.2**

Name and Address of Author (of Geo-Technical report): **MICHAEL LEAHY, 139 CARTER AVE., KIRKLAND LAKE, ONTARIO, P2N 2A1**

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
For each additional survey: using the same grid: Enter 20 days (for each)	- Magnetometer	
	- Radiometric	
Man Days Complete reverse side and enter total(s) here	- Other	
	Geological	
	Geochemical	
Airborne Credits MINING LANDS SECTION 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	
L	893697				
	893818				

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE
AUG 17 1988
RECEIVED

KIRKLAND LAKE
MINING DIV.
RECEIVED
JUN - 8 1988
AM 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | PM

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. **2**

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
40	June 4/88	M.G. Weermei
	Date Approved as Recorded	Branch Director
	5 Aug 88	G. Black

Date: **June 8 '88** Recorded Holder or Agent (Signature): **Ann Black**

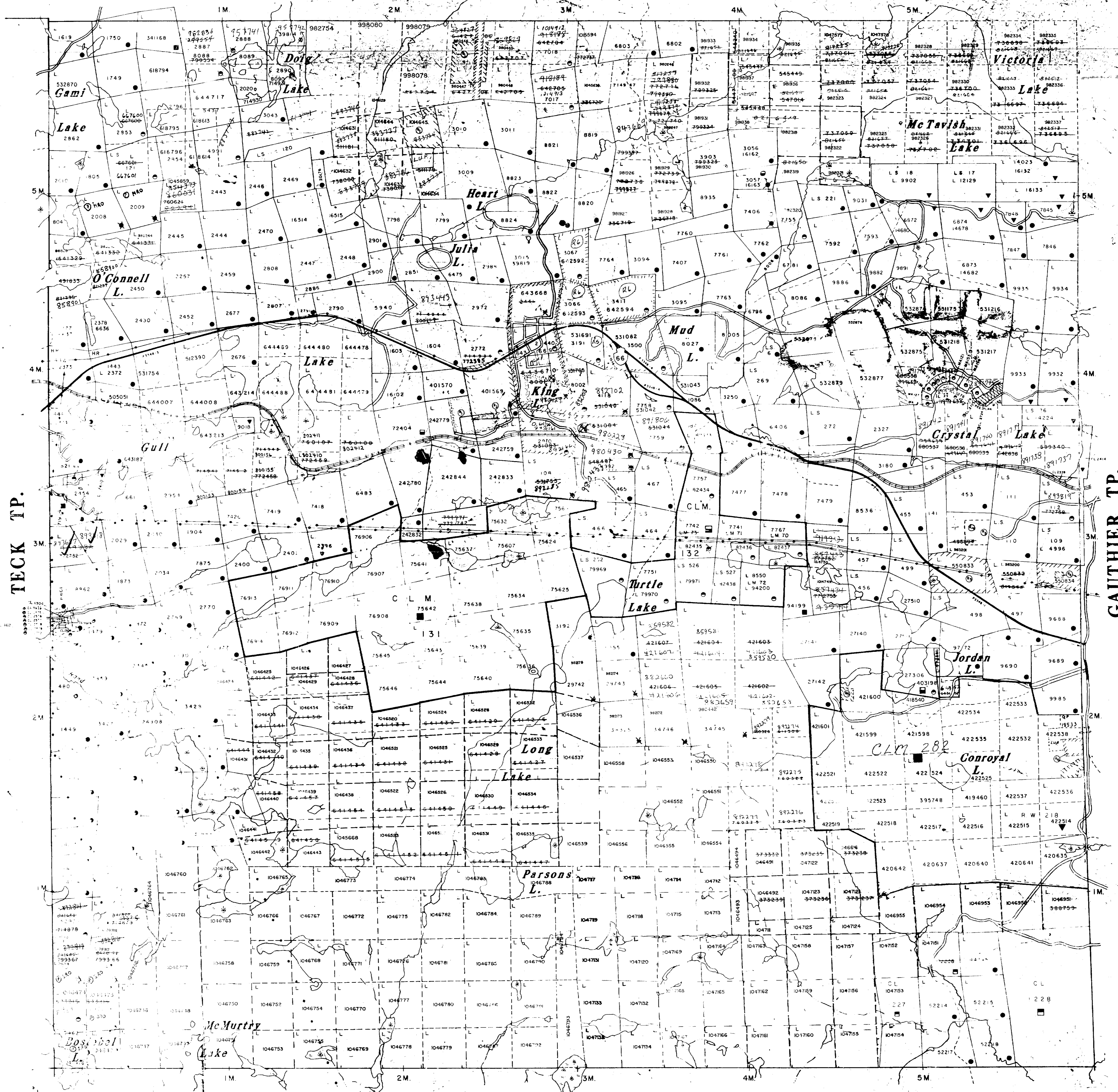
Certification Verifying Report of Work

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: **M. LEAHY 139 Carter Ave Kirkland Lake Ont P2N2A1**

Date Certified: **June 8/88** Certified by (Signature): **Michael Leahy**

MORRISETTE TP.



TOPOGRAPHY
LAKES AND RIVERS ETC. FROM FOREST RESOURCES
INVENTORY SHEETS 481794, 481801, 482754, 482801

SURVEYS
FIELD NOTE BOOKS, 2430, 2431, 2432
PLANS, M.M. 15, M.M. 15, M.M. 20,
S.4-10, X.41-23, X.41-24

HIGHWAYS
HIGHWAYS THROUGH CROWN LANDS ARE SUBJECT TO
TRANSPORTATION AND COMMUNICATIONS ACTS
AS NOTED.

Description	Order No.
SR - SURFACE RIGHTS	
W106/82	201/69
CROWN RES.	154388

- SAND AND GRAVEL**
- ① GRAVEL FILE 38581
 - ② GRAVEL FILE 8816
 - ③ M.T.C. GRAVEL PIT No.513
 - ④ GRAVEL FILE 29795
 - ⑤ GRAVEL FILE 42354
 - ⑥ GRAVEL FILE 105110

⑦ W113/83 S.A.O.

⑧ W 2/86 271/186 5/200 8/11/80
⑨ W 2/86 06/03/84 5/11/81
O. 04/86 - M.O. proposed effective Sept. 20/86

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
- SWAMP 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	◖
RESERVATION	◗
CANCELLED	◘
SAND & GRAVEL	◙

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 20, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1910, CHAP. 300, SEC. 52, SUBSEC. 1.

SCALE: 1 inch = 20 chains

TOWNSHIP
LEBEL
M. N. R. ADMINISTRATIVE DISTRICT
KIRKLAND LAKE
MINING DIVISION
LARDER LAKE
LAND TITLES / REGISTRY DIVISION
TIMISKAMING

CLIMATE POSITION OF CROWN LAND



Rec'd. O. 10/81

ELECTROMAGNETIC SURVEY EAST BLACK PROPERTY

LEBEL TOWNSHIP
SCALE: 1" = 100'



L 17 E

NOTES
 INSTRUMENT: GEONICS EM-10
 TRANSMITTER: CUTLER 24.0 KHz
 VERTICAL SCALE: 1" = 50'
 DIP ANGLE (70): LEFT
 QUADRATURE: RIGHT
 POSITIVES PLOTTED: LEFT
 NEGATIVES PLOTTED: RIGHT
 NORTH DIP: +
 DIP PROFILE: ---
 QUAD PROFILE: - - - -

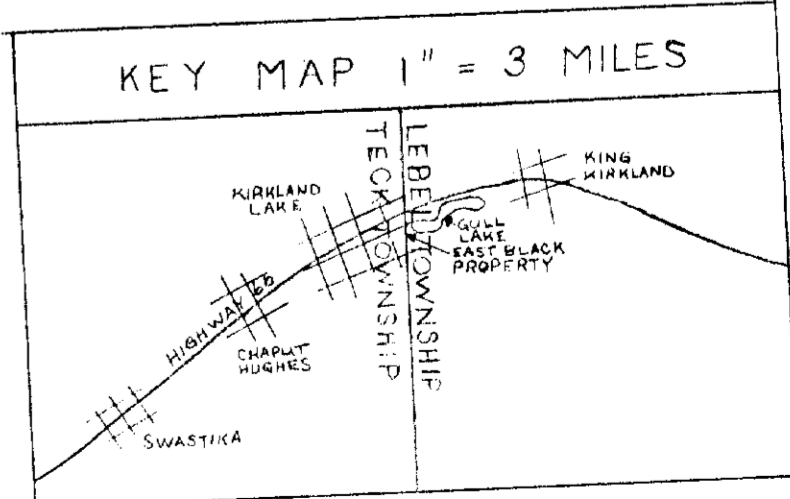
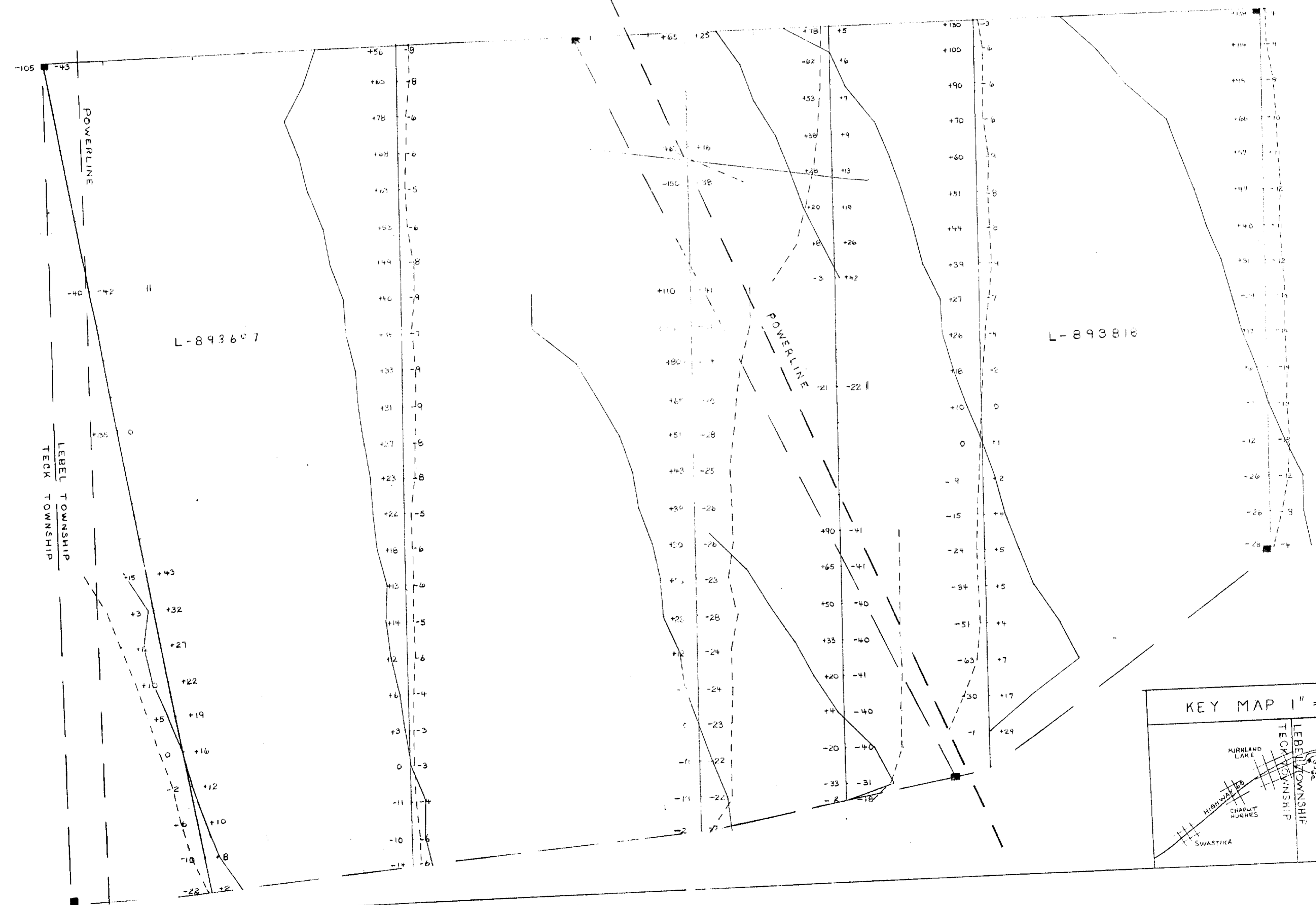
2.11422

L 9 E

L 11 E

L 13 E

L 1 E



Michael Leady July 8/88

