WEIR MOUNTAIN REPORT NO. 8

GEOPHYSICS

CLAIMS ENG 1-3, CY 1-8, CY-9, CY-10

RECORD NOS. 221-231, 479, 1124

WEIR MOUNTAIN AREA

59°39'N, 132°59'W

NTS 104N/10W

ATLIN MINING DISTRICT

OWNER: NORANDA MINES LIMITED

OPERATOR: MATTAGAMI LAKE EXPLORATION LIMITED

AUTHOR: W. MERCER

DATE: SEPTEMBER 1980

part 3 of 5

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Chapter One: Introduction

1-1 Property and Ownership

Noranda Mines Limited is the owner of mineral claims ENG 1-3, CY 1-10, record numbers 221-231, 479 and 1124 respectively.

The claims cover 207 units or about 5,174 hectares.

1-2 Location and Access

The claims are located in the Weir Mountain area, northern British Columbia, NTS 104N (Figures 1 and 2). The property lies about 41 km northeast of the community of Atlin and its geographical co-ordinates are 59°39'N and 132°59'W.

There are no roads to the property. Access is via helicopter from Atlin. A gravel road connects Atlin with the west shore of Surprise Lake, 22 km west of Weir Mountain.

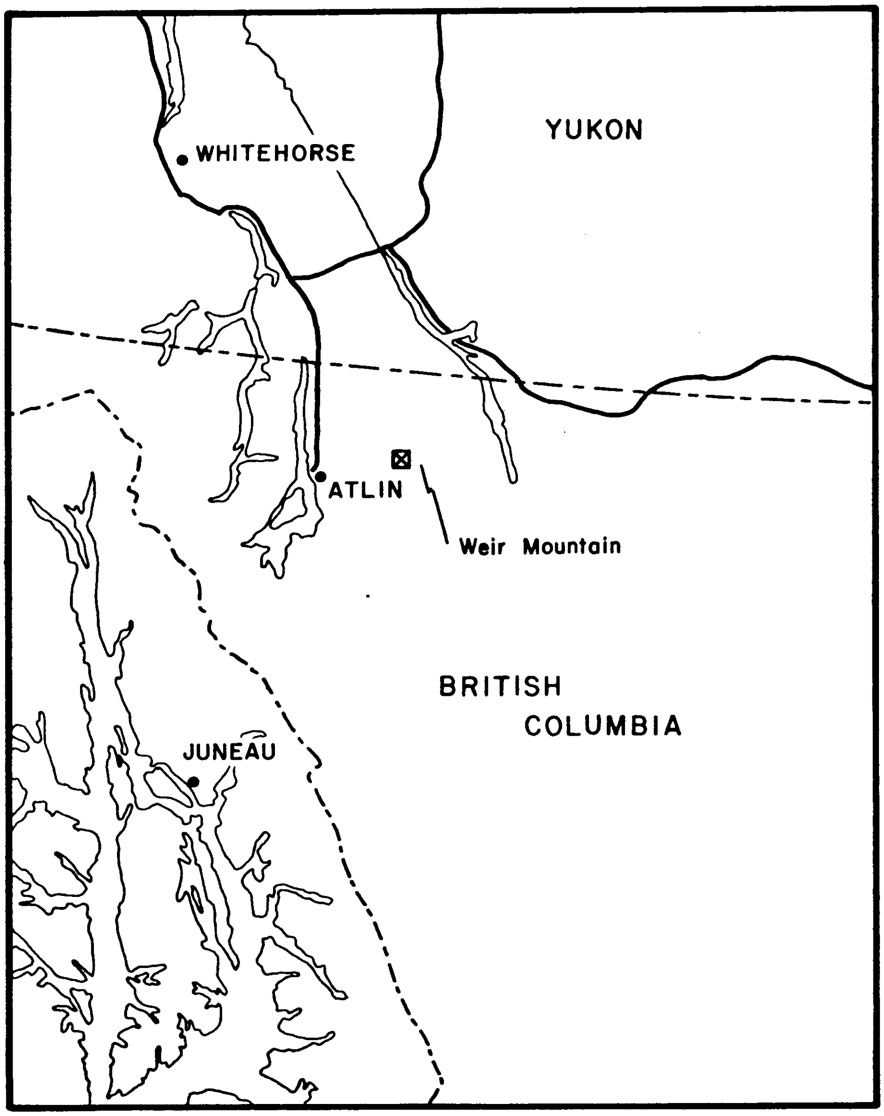
1-3 Physiography

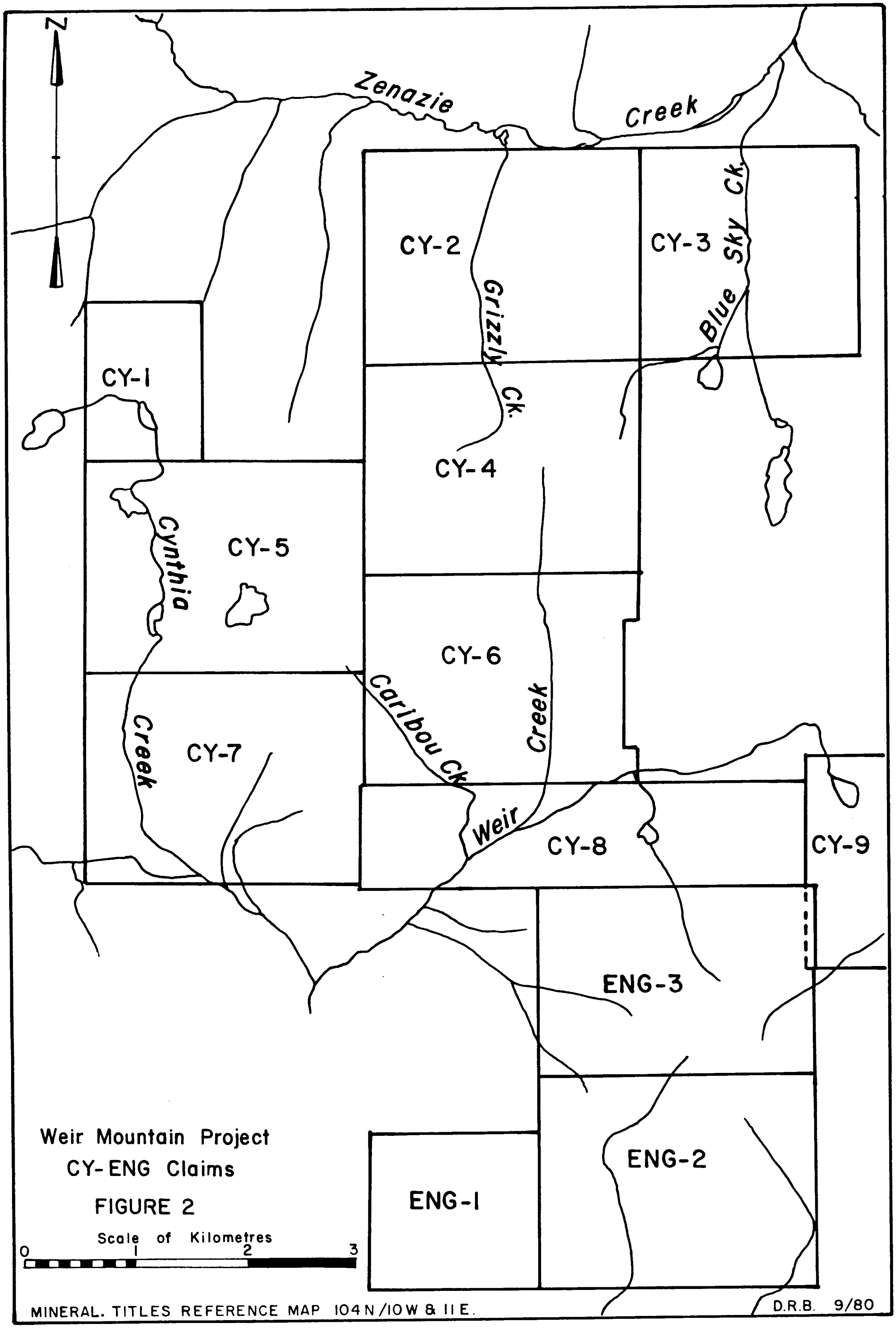
The area is mountainous, with gently sloping, vegetation covered, southeast flanks and precipitous cliffs on the northwest flanks. Recent glaciation has left wide U-shaped valleys as well as cirques and hanging valleys. The elevation is 1,000 to over 2,000m above sea level.

Vegetation is dense, short, willow bush up to 1,300m. Above this elevation, there is very immature alpine-type soil, 10 to 50 cm thick. Vegetation here constitutes grass and lichens. Valley bottoms are covered by extensive fluvial and moraine deposits.

Figure 1

LOCATION MAP
CY & ENG CLAIMS, B.C.
WEIR MOUNTAIN AREA





Weir Mountain Project
CY-ENG Claims
FIGURE 2

1-4 Climate

The CY and ENG claims are almost completely free of snow from early July to the end of August although many cornices persist for much of the summer.

The area is characterized by strong winds, generally from the southwest. Summer temperatures average +4°C and snow storms are common during the summer months, especially June and August.

1-5 History

During July 1977, eleven claims (187 units) were staked in the Weir Mountain area for Mattagami Lake Mines Limited to cover a radioactive area discovered by a regional helicopter-borne radiometric survey in 1977. One additional claim (CY-9, 8 units) was staked in 1978 and another (CY-10, 12 units) was staked in 1980.

Geochemical sampling, radon detection in water and soil and radiometric surveys were carried out to cover most of the CY claims in 1977, (Weir Mountain Report No. 2, F. Morra).

Detailed geochemical and geophysical surveys (magnetometer, RADEM, VLF, I.P., Radiometric) were completed during the summer of 1978, predominantly on the CY-3, CY-4 and CY-6 claims. The results of this work are presented in Weir Reports, Numbers 3 and 4, the CEM Report, Weir Mountain (T. Gledhill and D. Sutherland, 1978) and the I.P. Report (Phoenix Geophysics).

This work helped delineate the source of some of the geochemical anomalies, namely two uranium anomalies and several sphalerite and magnetite occurrences.

During the first part of the 1979 program (June and July) work was concentrated on the CY-3, CY-6 to CY-9, and ENG-1 to ENG-3 claims. This included geological mapping, prospecting, magnetometer, radiometric and radon in soil surveys.

No primary uranium mineralization was discovered, however following encouraging results for other metals obtained during the June-July 1979 period of work, exploration was renewed in August and September. A base camp was established at the mouth of Caribou Creek. Further geophysics, geochemistry and trenching was done (J. Biczok, Weir Mountain Report No. 6, April 1980).

1-6 Summary of Work

During the summer of 1980 the following work was performed on the property:

1) Geophysical surveys including airborne EM and magnetometer and ground surveys utilizing Geonics EM31, Geonics VLFEM16R, McPhar fluxgate magnetometer, Crone Radem and Crone Shootback EM.
2) Geochemical surveys including soil and stream sediment sampling.
3) Limited trenching.
4) Diamond drilling using a BBS-1 drill and AQ core, for a total of 1,926 metres. Drilling was performed by Morrisette Diamond Drilling of Haileybury, Ontario.

Mattagami personnel involved in the work were as follows:

Paul Nielson	Exploration Geologist
Lloyd Alterton	Geophysical Supervisor
George Doucet	Camp expeditor, trenching and assistance with geophysics and drilling
Jim Thorpe	Junior Assistant
Victor Nishi	Junior Assistant
Kevin Tomlinson	Junior Assistant

This report is concerned with the geophysical surveys. Lloyd Alterton supervised this work throughout the programme.

The geophysics performed is as follows:

Claim	EM31	EM16	EM16R	Crone	Magnetometer
ENG-1	1.45 Km	1.45	----	0.30	1.50
ENG-2	8.85	8.85	----	5.80	8.90
ENG-3	----	3.75	----	2.25	3.70
CY-1	----	3.85	3.85	----	4.80
CY-2	----	----	----	----	----
CY-3	4.00	7.20	2.40	----	8.05
CY-4	----	----	----	----	----
CY-5	----	0.50	0.50	----	0.50
CY-6	20.70	12.30	12.05	----	21.00
CY-7	----	8.80	8.80	----	8.05
CY-8	----	6.00	4.50	----	0.70
CY-9	----	----	----	----	----
CY-10	----	1.90	1.90	----	2.30

Chapter Two: Survey Methods

2-1 Geonics EM31

Pioneered by Geonics Limited, the EM31 measures the electrical conductivity of the ground without physical contact. Very samll currents induced in the earth from a magnetic dipole transmitter* produce a weak secondary magnetic field which, under certain conditions fulfilled in the EM31 is linearly related to the ground conductivity. The EM31 compares the weak secondary field with the primary field, using advanced circuit techniques to produce an entirely self-contained instrument which is direct reading in terrain conductivity.

Unlike plane wave systems the depth of penetration is determined by the intercoil spacing (in this case 12 feet) and is independent of terrain conductivity. The EM31 has been designed for engineering geophysics- the effective depth of investigation is six metres, although under favorable conditions (searching for a conductive medium beneath a resistive layer) this figure will be substantially exceeded as shown in the "two layer" curves supplied with each instrument.

For storage, or carrying to the survey site, the instrument breaks down into a compact package which is easily extended on-site to perform the survey. Terrain conductivity measurement is carried out by walking over the ground and either continously noting the meter output or recording the output at fixed station intervals.

It is well known that the absolute value of terrain conductivity (or resistivity) is seldom diagnostic; great reliance is always placed on the spatial variation of resistivity for survey interpretation. A faster

* at 39.2 kHz

survey technique produces, for the same expenditure, either more detailed surveys or surveys over larger areas, thus greatly increasing survey interpretability. The facility for continuous observation of terrain conductivity permits the operator to examine anomalous regions immediately, to whatever detail is required.

Terrain conductivity can be measured to much higher resolution than is achieved with probes; the repeatability of 2% over typical ground allows the detection and accurate mapping of areas of very low conductivity contrast, again at high speed. The instrument is almost completely insensitive to orientation with respect to the ground; a small correction factor can be applied to the readins to correct for different operator heights. Rotation of the instrument of each survey station quickly allows determination of the local uniformity of the ground. Current injection problems in hgih resistivity areas are avoided, although instrumental accuracy is reduced at low conductivity due to the extremely small nature of the induced eddy currents. Completely self-contained, the instrument can be used at any time, anywhere in the world. Conservative design and excellent noise rejection permit use except under conditions of very intense local thunder storm activity in regions of low conductivity.

The EM31 has been used successfully for:

1) detecting, delineating, and extending the boundaries of gravel deposits.
2) detecting and delineating regions of high ice content in shallow permafrost.
3) determining the thickness of the active layer i.e. the depth to permafrost.

4) locating buried river valleys infilled with glacial till.

5) delineating conductive regions due to groundwater pollution.

6) determing depth to bedrock through muskeg.

In this case the instrument is used to detect narrow, near vertical bodies of base metal mineralization surrounded by highly resistive alaskite.

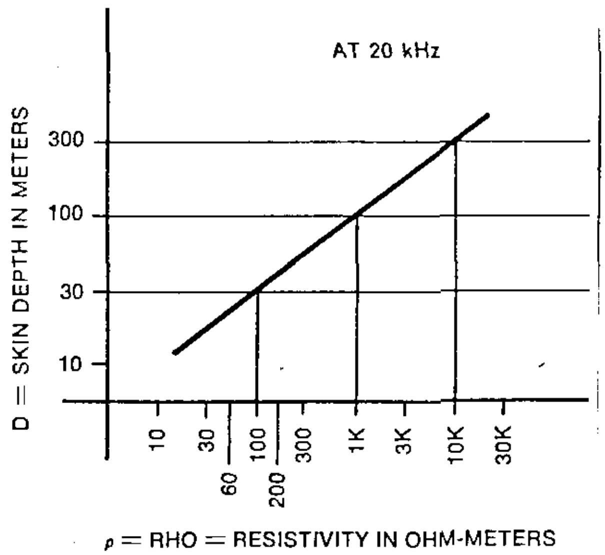
2-2 Geonics VLF EM16R

The VLF EM16R is a conventional VLF EM receiver with an attachment added to enable direct reading of the apparent resistivity of the ground in ohm-meters. This requires only the non-critical insertion of two ground probes 10 meters apart.

The depth to which the field is penetrating is proportional to the so called skin depth which is a function of the apparent resistivity.

When layering is present the apparent resistivity depends on the resistivity and thickness of the top layer and the resistivity of the second layer.

In general the rock beneath overburden will be of much higher resistivity and if the overburden is less than a skin depth thick, the phase and apparent resistivity will indicate the overburden conductivity and thickness quite well. The phase between Ex and Hy is nominally 45° and generally decreases if there is a second layer of higher resistivity, and increases over a more conductive second layer.



The EM16R attachment comprises a pair of ground electrodes with internal preamps, which are pushed into the ground, 10 meters apart in the direction of the station to receive the electric field, a case attachment to the EM16, containing electronic circuits and controls to amplify and phase shift the electric field signal, and the EM16 unit itself, of which the reference coil is maximum coupled to the magnetic field. The EM16 null detection circuitry is employed.

EM16R measures the ration and phase between the horizontal magnetic field and the horizontal electric field components of the plane wave which is radiated from a selected one of the number of powerful VLF stations located around the world.

Operation is based on the principle of the RADIOHM patent of Becker and Collett of the Geological Survey of Canada.

2-3 Magnetometer

The instrument utilized was a McPhar M700 fluxgate magnetometer. For a base station an identical machine was attached to a chart recorder in camp to record diurnal variations.

Readings were taken facing north at 25m intervals at waist height, except when anomalies were encountered. In this case more frequent readings were taken.

2-4 Crone Shootback EM

In very hilly terrain it is difficult to maintain correct alignment of the transmitter and receiver coild during a horizontal loop EM survey and as a result false dip angles are often obtained. The shootback method, developed by Crone Geophysics, was intended to overcome this problem.

The field procedure is similar to using a conventional portable transmitter except that the coils are convertible to be transmitters or receivers. The spacing is usually 50m or 100m. Standard frequencies used are 390, 1,830 and 5,010 Hz.

When coil 1 transmits, coil 2 is rotated about a horizontal axis normal to the traverse line to obtain a minimum. Then a second reading is taken for the same station with transmitter and receiver interchanged.

In homogeneous ground the difference between the two tilt angles will be zero. This will be true regardless of the relative elevations of the two coils. However, with a conductor present, the secondary field will affect the tilt angles at the two receiver positions in the opposite sense.

Usually two frequencies are utilized, 390 and 1,830 or 390 and 5,010 Hz. A positive resultant is obtained over a conductor that is near surface. A dipping sheet, near-surface, results in an asymmetric profile which is positive over the upper end and crosses zero to a negative maximum downdip. Flat lying conductors produce a negative anomaly symmetric about the midpoint.

Chapter Three: Results

3-1 Introduction

Results will be covered by area, as follows:

1) ENG 1, 2, 3 claims, so called Galena Creek and Feather Creek grids.
2) CY-6 claim, so called main grid, east part.
3) CY-7/8, so called main grid, west part.
4) CY-1 claim, Cynthia Lake Grid
5) CY-3 claim, Blue Sky Grid

3-2 ENG-1, 2 and 3 Claims

3-2-1 EM31

Four main anomalies have been outlined on the map (Map 1):

ANOMALY R: has good strike length and strong response on line 9500NE. Anomalies R_1 and R_2 may be branches off this one, and are relatively weak.

ANOMALY N: 600m of strike length and strong response on line 9900NE.

ANOMALY P: 300m of strike and weak.

ANOMALY Q: 400m of strike and weak.

Trenches have exposed weak galena mineralization on anomalies R and Q on lines 9000 and 9100NE respectively. Anomalies N and P cross Galena Creek close to occurrences of boulders mineralized with galena and sphalerite.

3-2-2 EM16 (VLF)

Crossovers (Map 2) were obtained corresonding to anomaly R in the EM31 survey and a new anomaly, T, on the Feather Creek Grid at eg. 11000NE, 7100NW. The significance of the latter is not clear.

3-2-3 Magnetometer (Map 3)

On the ENG-2 claim a magnetic anomaly is present at the easterly continuation of anomaly P (EM31) especially at 9500NE, 5625NW. This may indicate a lateral change in mineralogy along a near vertical vein.

On the Feather Creek Grid, at 11200NE, 6550NW a spot high, anomaly S, was obtained.

3-2-4 Crone Shootback

Values of less than +10° were not considered significant. Thus only one anomaly is picked out (Maps 4 and 5). This corresponds to EM31 anomaly N on 9800NE, 5725NW having vlaues of +12° (390 Hz) and +10° (5,010 Hz).

3-3 CY-6 Claim

3-3-1 EM31

Numerous anomalies were obtained in this area (Map 6). In the south part of the area (south of line 10000NW) two main anomalies are visible, anomaly E, which is strong and has been trenched and drilled, and anomaly J, also strong. These have strikes of 500m and 300m respectively.

The center part (lines 10000NW to 10500NW) has swarms of short anomalies over 800m x 300m. One dominant trend has been picked out as anomaly G.

In the north two long anomalies, C and H, and one small one, A, have been found. Anomaly C is associated with a train of magnetite-sphalerite-chlorite boulders. Anomaly A is near a tiny pos of sphalerite and galena mineralization.

3-3-2 EM16 (VLF) and EM16R

One crossover was outlined that is clearly associated with the upslope edge of anomaly C (Map 7). No crossovers were obtained in the extension of the grid to the east (Map 8).

Map 9 shows the EM16R data that shows a weak condition with the EM31 data. There are differences partly due to the difference in penetration of the instruments.

3-3-3 Magnetometer

All EM31 anomalies have corresponding, but less continuous, magnetic anomalies (Map 10). This presumably relates to the fact that the mineralization in this area is almost invariably related to magnetite whereas in Galena Creek it is not.

The magnetic data also suggests that the E and F anomalies may be one and the same.

Magnetic data to the east (Map 11) shows weak discontinuous anomalies on 10800NE, 9850NW and 9600NW and on 11700NE, 10300NW.

3-4 CY-7/8 Claims

3-4-1 EM16 (VLF) and 16R

One distinct line of crossovers, probably anomaly F, occurs in the eastern part of the area (Map 12). Two crossovers, uncorrelated with other information occur in the west area, 8350 and 8400NE, near 10+100NW.

Map 13 shows a number of zones of low resistivity. The VLF crossovers on the west side of the area show a good correlation with a zone of low resistivity with a similar N-S strike. Anomaly F does not show a good correlation with low resistivity. Note that a detailed VLF EM16R survey over known mineralization at Anomaly F in fact, did show a resistivity low. However, the survey shown in Map 13 was not sufficiently detailed to pick this up.

3-4-2 Magnetometer

One through-going magnetic anomaly is present and is marked as anomaly F (Map 14). It appears to be the continuation, or close to, that zone. Spot anomalies are present in the north part of the area.

3-5 Cynthia Lake Grid, CY-1 Claim

3-5-1 EM16 (VLF) and EM16R

Two distinct anomalies are present as crossovers, designated on Map 15 as CL-1 and CL-2. EM16R data (Map 16) correlates roughly with these zones indicating areas of low resistance, around 450 ohms. The strike lengths, so far are 1000m (CL-1) and 300m (CL-2).

3-6 Blue Sky Grid, CY-3 Claim

3-6-1 EM31

Two main anomalies are present (Map 17):

ANOMALY K, strike length 700m, running north

ANOMALY L, strike length 500m, running northeast

These two anomalies appear to coalesce. Three short one-line anomalies are also present.

3-6-2 EM16 (VLF) and EM16R

Two isolated crossovers were obtained on anomaly L (Map 18). EM16R data extends anomalies K and L to the east for 500m as resistivity lows (Map 19).

3-6-3 Magnetometer

Spot anomalies were obtained, two of which correspond to spot (one-line) EM31 anomalies (Map 20).

Chapter Four: Conclusions and Recommendations

A large number of geophysical anomalies have been outlined by electromagnetic, resistivity and magnetic surveys. The most important of these are:

1) Two anomalies on Blue Sky Grid (K and L)
2) Five anomlies on CY-6 Claim (C, G, H, E and J)
3) One anomaly on CY-7/8 (F)
4) Two anomalies on ENG-2 (R and N)
5) Two anomalies on Cynthia Lake Grid (CL-1, CL-2)

Recommendations are as follows:

1) Correlation of geochemical results with geophysical anomalies to ascertain which are associated with geochemical highs.
2) Relate geophysical data to actual geology and mineralization in diamond drill holes.

WM/sal

CERTIFICATE

I, William Mercer, of the City of Edmonton, Province of Alberta, do hereby certify that:

1. I am a geologist residing at 6814 - 110 Street, Edmonton.
2. I am a graduate of Edinburgh University, Scotland, with a B.Sc. Hons (1968) in geology and McMaster University, Ontario, with a Ph.D. (1975) in geology.
3. I have been practicing my profession since 1974 and am at present Regional Manager for Mattagami Lake Exploration Limited in Edmonton.
4. I am a fellow of the Geological Association of Canada and a member of the Society of Economic Geologists and the Canadian Institute of Mining and Metallurgy.
5. I supervised the work that is described in this report.

Dated: December 31st 1980

W. Mercer

W. Mercer, Ph.D.

APPENDIX ONE: STATEMENT OF COSTS

WEIR MOUNTAIN 1980

STATEMENT OF GEOPHYSICAL AND GEOCHEMICAL COSTS

CAMP COSTS (Per Manday)

Telephone		$ 1,930.83	
Camp Installations		5,999.24	
Camp Supplies		17,655.20	
Miscellaneous Supplies		6,701.82	
Freight		1,303.90	
Vehicle Rental			
Passenger Van 2-1/3 mo. x $ 690.00 =	$ 1,610.00		
Panel Van 1/3 mo. x $ 575.00 =	210.83		
Panel Van ½ x 3-1/3 mo. x $ 575.00 =	967.92		
Panel Van (1) - Repairs	267.50		
Panel Van (2) - Repairs	276.27		
		3,332.52	
Vehicle Operation		5,508.88	
Radiophones			
2 SBX radios x 4 months x $ 150.00/month		1,200.00	
		$ 43,632.39 ÷ 942 mandays =	$ 46.32
Helicopter			
214½ hours x $ 305.00/hour		$ 65,346.25 ÷ 542 mandays =	$ 120.57
			$ 166.89/manday

CAMP COSTS	Days to	July 26, 1980	Days after	July 26, 1980
General	80	$ 13,351.20	64	$ 10,680.96
Linecutting	67	11,181.63	24	4,005.36
Core Splitting	14	2,336.46	2	333.78
Geology	10	1,668.90	Ø	---
Engineering	33	5,507.37	7	1,168.23
C.E.M.	32	5,340.48	Ø	---
Magnetometer	21	3,504.69	4	667.56
EM16/16R	24	4,005.36	32	5,340.48
Trenching	20	3,337.80	Ø	---
Geochemistry	43	7,176.27	14	2,336.46
EM31	33	5,507.37	1	166.89
Prospecting	6	1,001.34	Ø	---
Technical Studies	Ø	---		1,835.79
TOTAL	383	$ 63,918.87	159	$ 26,535.51

SALARIES (Up to July 26, 1980)*

Employee	Per day*	Line Cutting	Core Splitting	Geology	Engineering	C.E.M.	Magnetometer	EM16	Trenching
G. Doucet	$ 85.32	511.92	853.20						
P. Nielson	93.49	560.94		93.49	2,898.19	1,308.86			1,109.16
L. Alterton	71.06	355.30		71.06		284.24	994.84	142.12	
J. Biczok	81.80			409.00	163.60				
V. Nishi	41.14	740.52	82.28	123.42		164.56	41.14	82.28	
J. Thorpe	41.14	534.82	82.28			205.70	123.42	411.40	
K. Tomlinson	38.56	462.72				192.80	77.12	347.04	
A. Doucet	51.84	362.88					51.84	51.84	362.88
TOTAL		3,529.10	1,017.76	696.97	2,898.19	2,156.16	1,288.36	1,034.68	1,472.04

Employee	Per day*	Geochemistry	EM31	Prospecting	Technical Studies	General
G. Doucet	$ 85.32			255.96		2,047.68
P. Neilson	93.49	186.98				186.98
L. Alterton	71.05	284.24	426.36			1,065.90
J. Biczok	81.80	245.40		163.60		245.40
V. Nishi	41.14	329.12	329.12			370.26
J. Thorpe	41.14	329.12	205.70			287.98
K. Tomlinson	38.56	347.04	154.24	38.56		539.84
A. Doucet	51.84	466.56	518.40			311.04
TOTAL		2,188.46	1,633.82	458.12		5,055.08

*Salary includes daily pay, bush bonus and payroll burden

SALARIES (After July 26, 1980)

Employee	Per day*	General	Line Cutting	Core Splitting	Engineering	Magnetometer	EM16	Geochemistry	EM31
G. Doucet	$ 85.32	1,535.76	426.60	170.64	85.32	85.32			
P. Nielson	93.49				467.45				
L. Alterton	71.06	994.84	71.60		71.06	213.18	284.24	71.06	71.06
V. Nishi	41.14	452.54	287.98				246.84	165.56	
J. Thorpe	41.14	287.98	41.14				493.68	123.42	
K. Tomlinson	38.56	77.12	192.80				115.68	77.12	
A. Doucet	51.84	622.08	259.20				362.88	207.36	
		3,970.32	1,278.78	170.64	623.83	298.50	1,503.32	643.52	71.06

Employee	Per Day*	Technical Studies
G. Doucet	$ 85.32	85.32
P. Nielson	93.49	
L. Alterton	71.06	213.18
V. Nishi	41.14	
J. Thorpe	41.14	205.70
K. Tomlinson	38.56	77.12
A. Doucet	51.84	
TOTAL		581.32

* Salary includes daily pay, bush bonus and payroll burden

GRID LOCATION (Cost per km)

	Prior to July 26, 1980	After July 26, 1980
Camp Costs	$ 11,181.63	$ 4,005.36
Salaries	3,529.10	1,278.78
TOTAL COST	$ 14,710.73	$ 5,284.14
TOTAL Km	36.56km	13.14km

Claim	No. of km	Cost	No. of km	Cost	Total Cost
CY- 1			4.70	1,890.86	1,890.86
CY- 3	8.55	3,439.75			3,439.75
CY- 5			0.45	181.04	181.04
CY- 6	15.60	6,276.04			6,276.04
CY- 7	2.06	828.76	5.69	2,289.14	3,117.90
CY-10			2.30	925.31	925.31
ENG-1	0.60	241.39			241.39
ENG-2	4.15	1,669.59			1,669.59
ENG-3	5.60	2,252.94			2,252.94

Cost per km = $ 402.31

KM OF GEOPHYSICS PER CLAIM

Claim \ Technique	Magnetometer	EM16	EM16R	EM31	C.E.M.
CY- 1	4.80	3.85	3.85	----	----
CY- 2	----	----	----	----	----
CY- 3	8.05	7.20	2.40	4.00	----
CY- 4	----	----	----	----	----
CY- 5	0.50	0.50	0.50	----	----
CY- 6	21.00	12.30	12.05	20.70	----
CY- 7	8.05	8.80	8.80	----	----
CY- 8	0.70	6.00	4.50	----	----
CY- 9	----	----	----	----	----
CY-10	2.30	1.90	1.90	----	----
ENG-1	1.50	1.45	----	1.45	0.30
ENG-2	8.90	8.85	----	8.85	5.80
ENG-3	3.70	3.75	----	----	2.25
TOTAL	59.50	54.60	35.10	35.00	8.35

GENERAL COSTS

General costs cover camp costs, etc. for rain days, expediting days and travel days. These have been divided up according to mandays of work on each work type.

Work Type	Mandays before July 26, 1980	Mandays after July 26, 1980	Cost/km	Total
Engineering	33	7	n/a	2,369.60
C.E.M.	32	Ø	227.22	1,895.68
Magnetometer	21	4	24.91	1,481.00
EM16/16R	24	32	37.01	3,317.44
Trenching	20	Ø	n/1	1.184.80
Geochemistry	43	14	1.66/sample	3,376.68
EM31	33	1	57.60	2,014.16
Drilling	224	70	n/a	17,416.56

Total General Cost = $ 33,057.56
Total Mandays = 558
Cost per manday = $ 59.24

GEOPHYSICAL COST PER KILOMETRE

Technique	Camp Cost	Salaries	Instrument Rental	General Cost	Kilometres	Cost/km
Magnetometer	$ 4,172.25	$ 1,586.86	$ 1,993.50	$ 1,481.00	59.50	$ 155.20
EM16	4,672.92	1,269.00	Ø	3,317.44	54.60	169.49
EM16R	4,672.92	1,269.00	Ø	3,317.44	35.10	169.49
EM31	5,674.26	1,704.88	1,396.00	2,014.16	35.00	308.32
C.E.M.	5,340.48	2,156.16	1,020.00	1,895.68	8.35	1,247.18

Magnetometer Rental

One McPhar M700 Base Station @ $ 12.15/day
One McPhar M700 @ $ 10.00/day
TOTAL 90 days x $ 22.15/day = $ 1,993.50

Geonics EM31 Rental

One month from Geocon, Calgary @ $ 500.00
One month from GeoAnalytical, Calgary 896.00
$ 1,396.00

Crone Shootback EM

1½ Units 1 month @ $ 1,020.00/month = $ 1,020.00

WEIR MOUNTAIN GEOPHYSICAL COSTS, 1980

Claim \ Technique	Magnetometer 155.20/km	EM16 169.49/km	EM16R 169.49/km	EM31 308.32/km	C.E.M. 1,247.18/km	Total
CY- 1	744.96	652.54	652.54	---	---	2,050.04
CY- 2	---	---	---	---	---	---
CY- 3	1,249.36	1,220.33	406.78	1,233.28	---	4,109.75
CY- 4	---	---	---	---	---	---
CY- 5	77.60	84.75	84.75	---	---	247.10
CY- 6	3,259.20	2,084.73	2,042.35	6,382.22	---	13,768.50
CY- 7	1,249.36	1,491.51	1,491.51	---	---	4,232.38
CY- 8	108.64	1,016.94	949.14	---	---	2,074.72
CY- 9	---	---	---	---	---	---
CY-10	356.96	322.03	322.03	---	---	1,001.02
ENG-1	232.80	245.76	---	447.06	374.15	1,299.77
ENG-2	1,381.28	1,499.99	---	2,728.63	7,233.64	12,843.54
ENG-3	574.24	635.59	---	---	2,806.16	4,015.99
TOTAL	9,234.40	9,254.17	5,949.10	10,791.19	10,413.95	45,642.81

WEIR MOUNTAIN GEOCHEMICAL COSTS, 1980

Claim	No. of Samples	Sample Analysis	General and Camp Cost	Total Cost
CY- 1	105	1,065.45	812.70	1,878.15
CY- 2	---	---	---	---
CY- 3	---	---	---	---
CY- 4	116	1,212.20	897.84	2,110.04
CY- 5	10	104.50	77.40	181.90
CY- 6	603	6,054.15	4,667.22	10,721.37
CY- 7	447	4,282.95	3,459.78	7,742.73
CY- 8	226	2,007.70	1,749.24	3,756.94
CY- 9	---	---	---	---
CY-10	53	553.85	410.22	964.07
ENG-1	44	459.80	340.56	800.36
ENG-2	282	2,946.90	2,182.68	5,129.58
ENG-3	143	1,494.35	1,106.82	2,601.17
TOTAL	2,029	20,181.85	15,704.46	35,886.31

Collection Cost

	Before July 26, 1980		After July 26, 1980	
Camp Costs	7,176.27		2,336.46	
Salaries	2,188.46		643.52	
	9,364.73	+	2,979.98	= $ 12,344.25 ÷ 2,029 samples = $ 6.08/sample

General Cost 1.66/sample

TOTAL GENERAL AND COLLECTION COST = $ 7.74/sample

DISTRIBUTION OF COSTS OF GEOPHYSICS AND GEOCHEMISTRY BY CLAIM AND DATE

		Prior to July 26, 1980		After July 26, 1980		Total Costs
CLAIM	Amount Applied	Costs	Note	Costs	Note	
CY- 1	3,000.00*[1]	1,890.86	Grid Location Only	4,582.69	All geophysics and geochemistry	6,473.55
CY- 2	---	---	---	---	---	---
CY- 3	6,400.00	8,204.00	All geophysics	---	---	8,204.00
CY- 4	---	---	---	2,110.04	All geochemistry	2,110.04
CY- 5	*[1]	1,264.54	All incurred costs	---	---	1,264.54
CY- 6	25,000.00	30,558.83	All costs except EM16	4,127.08	EM16/16R surveys	34,685.91
CY- 7	1,000.00	3,117.90	Grid Location	12,629.61	All geophysics and geochemistry	15,747.51
CY- 8	---	---	---	6,486.16	All incurred costs	6,486.16
CY- 9	---	---	---	---	---	---
CY-10	---	925.31	Grid Location	2,619.59	All costs except grid location	3,544.90
ENG-1	20,000.00*[2]	2,712.76	All incurred costs	245.76	EM16	2,958.52
ENG-2	*[2]	22,062.72	except EM16	1,499.99	EM16	23,562.71
ENG-3	8,500.00	9,524.60	All incurred costs	---	---	9,524.60

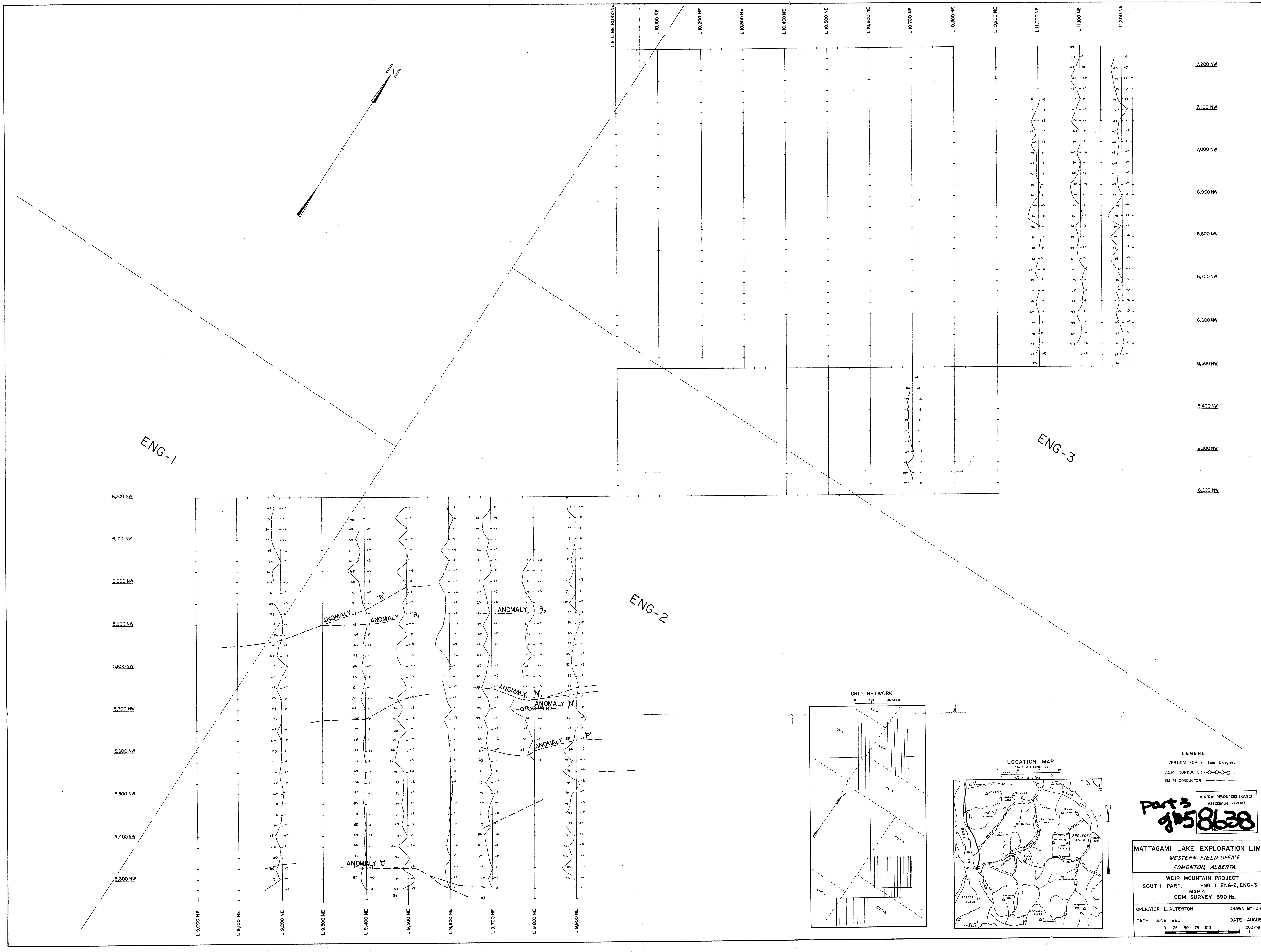
*[1] With CY-5

*[2] With ENG-2

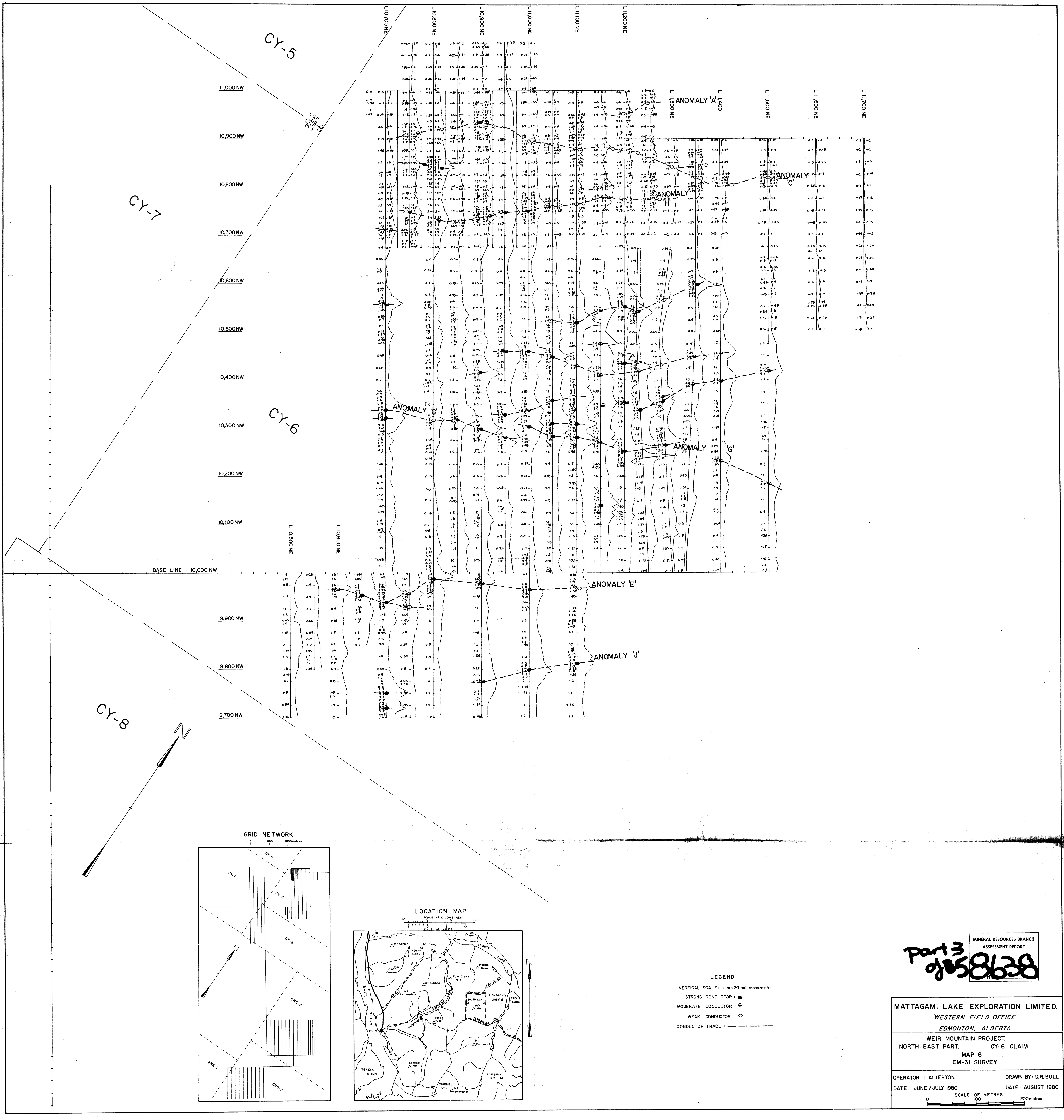

ENG-1
ENG-2
ENG-3
TIE LINE 10,000 NE
L 10,100 NE
L 10,200 NE
L 10,300 NE
L 10,400 NE
L 10,500 NE
L 10,600 NE
L 10,700 NE
L 10,800 NE
L 10,900 NE
L 11,000 NE
L 11,100 NE
L 11,200 NE
7,200 NW
7,100 NW
7,000 NW
6,900 NW
6,800 NW
6,700 NW
6,600 NW
6,500 NW
6,400 NW
6,300 NW
6,200 NW
6,100 NW
6,000 NW
5,900 NW
5,800 NW
5,700 NW
5,600 NW
5,500 NW
5,400 NW
5,300 NW
L 9,000 NE
L 9,100 NE
L 9,200 NE
L 9,300 NE
L 9,400 NE
L 9,500 NE
L 9,600 NE
L 9,700 NE
L 9,800 NE
L 9,900 NE
ANOMALY 'R'
ANOMALY R1
ANOMALY R2
ANOMALY 'N'
ANOMALY 'P'
ANOMALY 'Q'
GRID NETWORK
LOCATION MAP
LEGEND
VERTICAL SCALE : 1cm = ·25 millimhos/metre
STRONG CONDUCTOR :
MODERATE CONDUCTOR :
WEAK CONDUCTOR :
CONDUCTOR TRACE :
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
part 3 of 58638
NO.
MATTAGAMI LAKE EXPLORATION LIMITED.
WESTERN FIELD OFFICE
EDMONTON, ALBERTA.
WEIR MOUNTAIN PROJECT
SOUTH PART. ENG-1, ENG-2, ENG-3
MAP 1
EM-31 SURVEY
OPERATOR : L. ALTERTON.
DRAWN BY : D.R. BULL.
DATE : JULY 1980
DATE : AUGUST 1980
0 25 50 75 100 200 metres

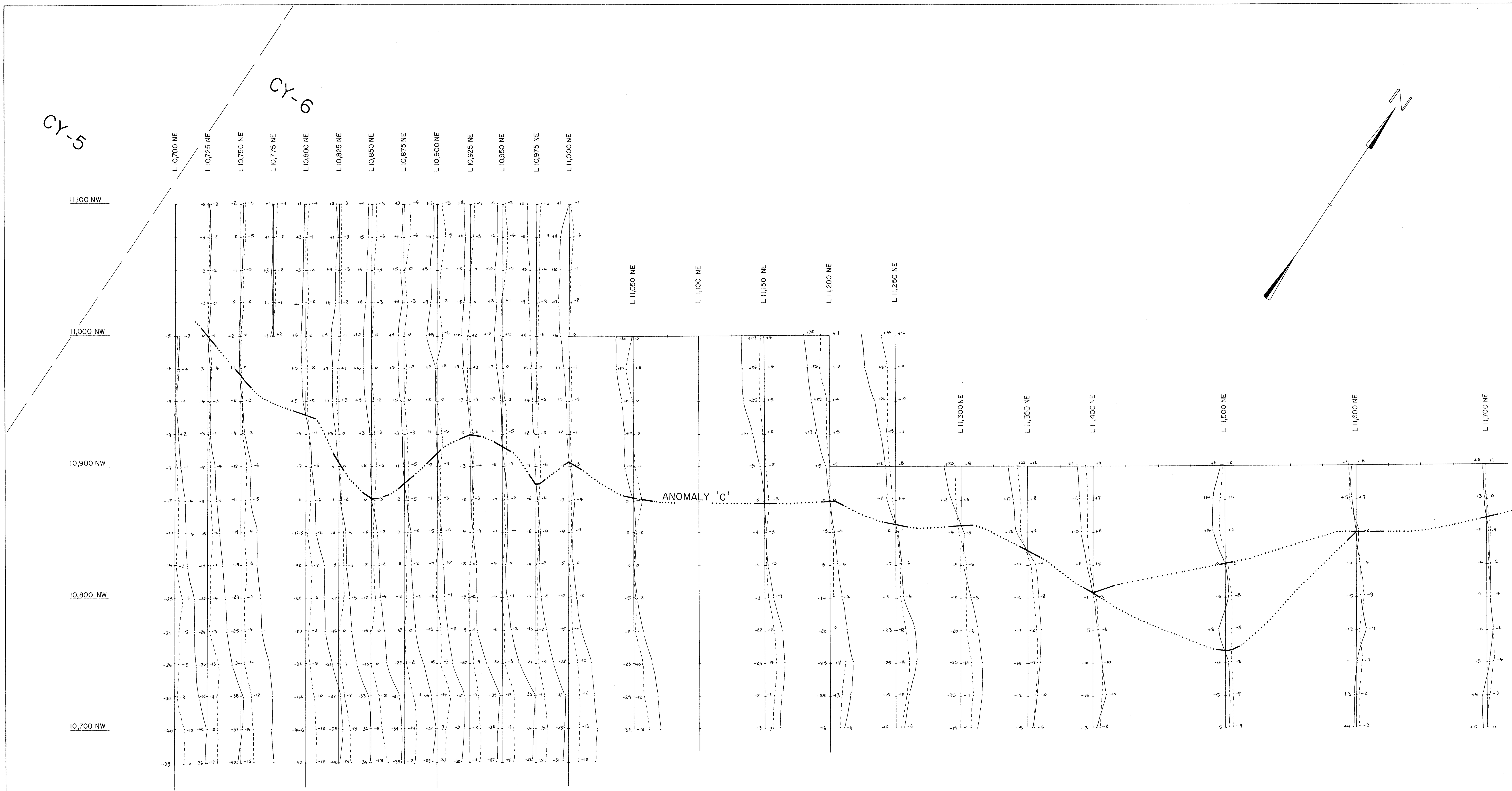
TIE LINE 10,000 NE
L 10,100 NE
L 10,200 NE
L 10,300 NE
L 10,400 NE
L 10,500 NE
L 10,600 NE
L 10,700 NE
L 10,800 NE
L 10,900 NE
L 11,000 NE
L 11,100 NE
L 11,200 NE
7,200 NW
7,100 NW
7,000 NW
6,900 NW
6,800 NW
6,700 NW
6,600 NW
6,500 NW
6,400 NW
6,300 NW
6,200 NW
ANOMALY 'T'
ENG-1
ENG-2
ENG-3
6,200 NW
6,100 NW
6,000 NW
5,900 NW
5,800 NW
5,700 NW
5,600 NW
5,500 NW
5,400 NW
5,300 NW
ANOMALY 'R'
ANOMALY 'R1'
ANOMALY 'R2'
ANOMALY 'N'
ANOMALY 'P'
ANOMALY 'Q'
L 9,000 NE
L 9,100 NE
L 9,200 NE
L 9,300 NE
L 9,400 NE
L 9,500 NE
L 9,600 NE
L 9,700 NE
L 9,800 NE
L 9,900 NE
GRID NETWORK
LOCATION MAP
SCALE of KILOMETRES
PROJECT AREA
TROUT LAKE
LEGEND
VERTICAL SCALE: 1cm = 20
STATION USED: CUTLER, MAINE
FACING DIRECTION: 130°
IN PHASE
OUT OF PHASE
CROSSOVER
EM-31 CONDUCTOR:
part 3 of 5
MINERAL RESOURCES BRANCH ASSESSMENT REPORT
8638
NO.
MATTAGAMI LAKE EXPLORATION LIMITED.
WESTERN FIELD OFFICE
EDMONTON, ALBERTA.
WEIR MOUNTAIN PROJECT
SOUTH PART. ENG-1, ENG-2, ENG-3
MAP 2
EM-16 SURVEY
OPERATOR: L. ALTERTON.
DRAWN BY: D.R. BULL.
DATE: JULY 1980
DATE: AUGUST 1980
0 25 50 75 100 200 metres

TIE LINE 10,000 NE
L 10,100 NE
L 10,200 NE
L 10,300 NE
L 10,400 NE
L 10,500 NE
L 10,600 NE
L 10,700 NE
L 10,800 NE
L 10,900 NE
L 11,000 NE
L 11,100 NE
L 11,200 NE
7,200 NW
7,100 NW
7,000 NW
6,900 NW
6,800 NW
6,700 NW
6,600 NW
6,500 NW
6,400 NW
6,300 NW
6,200 NW
6,100 NW
6,000 NW
5,900 NW
5,800 NW
5,700 NW
5,600 NW
5,500 NW
5,400 NW
5,300 NW
N
ENG-1
ENG-2
ENG-3
ANOMALY 'R'
ANOMALY R1
ANOMALY R2
ANOMALY 'N'
ANOMALY 'P'
ANOMALY 'Q'
L 9,000 NE
L 9,100 NE
L 9,200 NE
L 9,300 NE
L 9,400 NE
L 9,500 NE
L 9,600 NE
L 9,700 NE
L 9,800 NE
L 9,900 NE
GRID NETWORK
LOCATION MAP
LEGEND
UNITS: GAMMAS
MAG. CONTOUR:
EM-31 CONDUCTOR:
Part 3 of 5
MINERAL RESOURCES BRANCH ASSESSMENT REPORT
NO. 8638
MATTAGAMI LAKE EXPLORATION LIMITED.
WESTERN FIELD OFFICE
EDMONTON, ALBERTA.
WEIR MOUNTAIN PROJECT
SOUTH PART. ENG-1, ENG-2, ENG-3
MAP 3
FLUXGATE MAGNETOMETER SURVEY
OPERATOR: L. ALTERTON.
DRAWN BY: D.R. BULL.
DATE: JUNE / JULY 1980
DATE: AUGUST 1980
0 25 50 75 100 200 metres

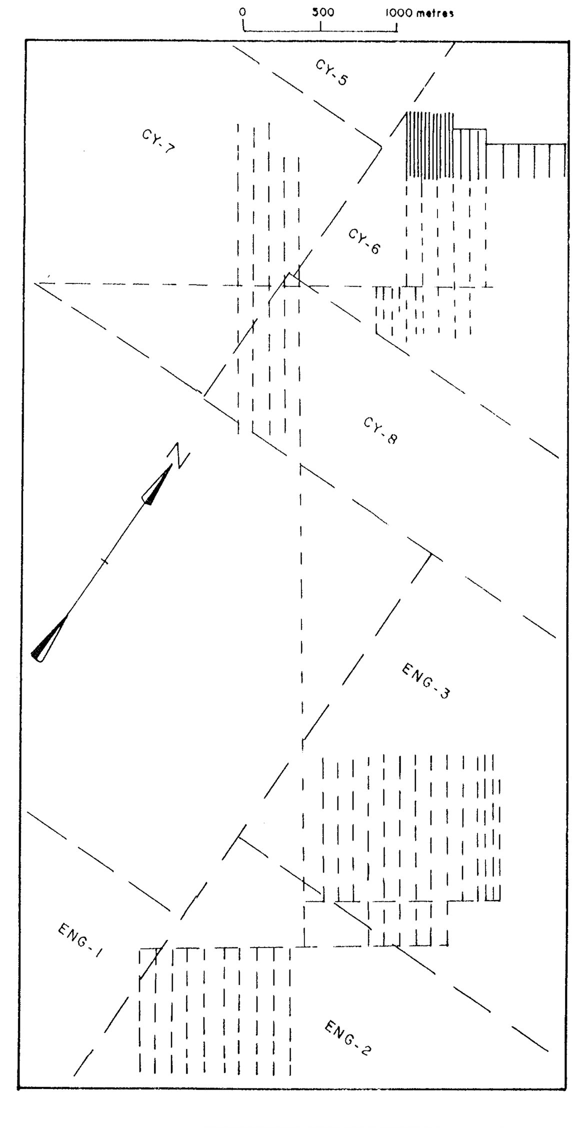

N
TIE LINE 10,000 NE
L 10,100 NE
L 10,200 NE
L 10,300 NE
L 10,400 NE
L 10,500 NE
L 10,600 NE
L 10,700 NE
L 10,800 NE
L 10,900 NE
L 11,000 NE
L 11,100 NE
L 11,200 NE
7,200 NW
7,100 NW
7,000 NW
6,900 NW
6,800 NW
6,700 NW
6,600 NW
6,500 NW
6,400 NW
6,300 NW
6,200 NW
6,100 NW
6,000 NW
5,900 NW
5,800 NW
5,700 NW
5,600 NW
5,500 NW
5,400 NW
5,300 NW
ENG-1
ENG-2
ENG-3
ANOMALY 'R'
ANOMALY 'R1'
ANOMALY R2
ANOMALY 'N1'
ANOMALY 'N'
ANOMALY 'P'
ANOMALY 'Q'
L 9,000 NE
L 9,100 NE
L 9,200 NE
L 9,300 NE
L 9,400 NE
L 9,500 NE
L 9,600 NE
L 9,700 NE
L 9,800 NE
L 9,900 NE
GRID NETWORK
ENG-1
ENG-2
ENG-3
LOCATION MAP
ATLIN LAKE
PROJECT AREA
TROUT LAKE
TERESA ISLAND
LEGEND
VERTICAL SCALE : 1 cm= 5 degrees
C.E.M. CONDUCTOR
EM-31 CONDUCTOR
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 8638
Part 3
MATTAGAMI LAKE EXPLORATION LIMITED.
WESTERN FIELD OFFICE
EDMONTON, ALBERTA.
WEIR MOUNTAIN PROJECT
SOUTH PART. ENG-1, ENG-2, ENG-3
MAP 4
CEM SURVEY 390 Hz.
OPERATOR: L. ALTERTON.
DRAWN BY: D.R. BULL.
DATE: JUNE 1980
DATE: AUGUST 1980
0 25 50 75 100 200 metres

TIE LINE 10,000 NE
L 10,100 NE
L 10,200 NE
L 10,300 NE
L 10,400 NE
L 10,500 NE
L 10,600 NE
L 10,700 NE
L 10,800 NE
L 10,900 NE
L 11,000 NE
L 11,100 NE
L 11,200 NE
7,200 NW
7,100 NW
7,000 NW
6,900 NW
6,800 NW
6,700 NW
6,600 NW
6,500 NW
6,400 NW
6,300 NW
6,200 NW
ENG-1
ENG-2
ENG-3
N
6,200 NW
6,100 NW
6,000 NW
5,900 NW
5,800 NW
5,700 NW
5,600 NW
5,500 NW
5,400 NW
5,300 NW
ANOMALY 'R'
ANOMALY 'R1
ANOMALY R2
ANOMALY 'N'
ANOMALY 'P'
ANOMALY 'Q'
L 9,000 NE
L 9,100 NE
L 9,200 NE
L 9,300 NE
L 9,400 NE
L 9,500 NE
L 9,600 NE
L 9,700 NE
L 9,800 NE
L 9,900 NE
GRID NETWORK
LOCATION MAP
LEGEND
VERTICAL SCALE: 1cm = 5degrees
CONDUCTOR:
EM-31 CONDUCTOR:
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
Part 3
8638
NO.
MATTAGAMI LAKE EXPLORATION LIMITED.
WESTERN FIELD OFFICE
EDMONTON, ALBERTA.
WEIR MOUNTAIN PROJECT
SOUTH PART. ENG-1, ENG-2, ENG-3
MAP 5
CEM SURVEY 5010 Hz.
OPERATOR: L. ALTERTON.
DRAWN BY: D.R.BULL.
DATE: JUNE 1980
DATE: AUGUST 1980
0 25 50 75 100 200 metres

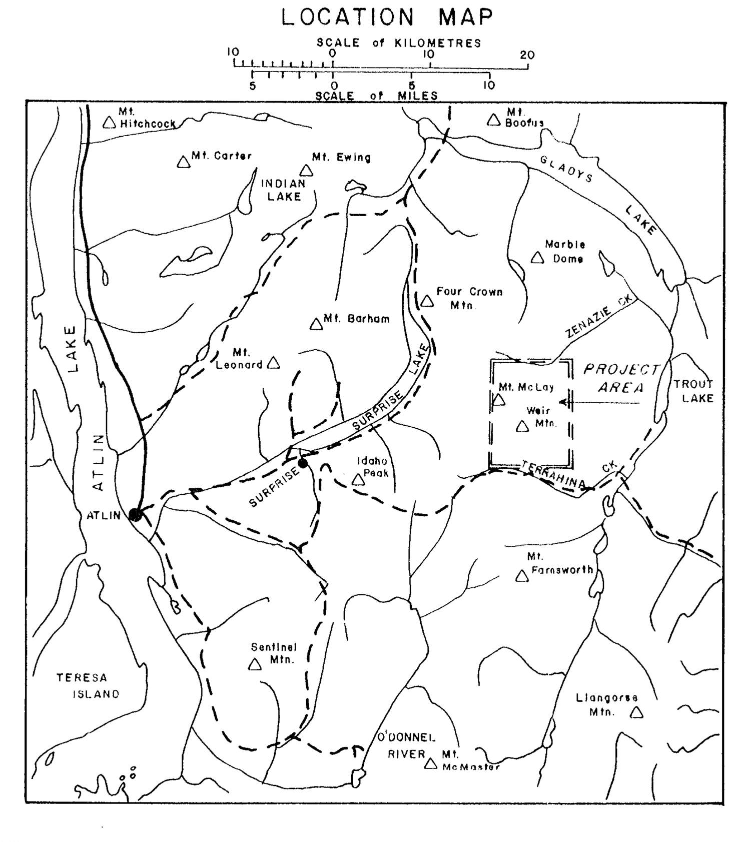

CY-5
CY-7
CY-6
CY-8
N
L 10,700 NE
L 10,800 NE
L 10,900 NE
L 11,000 NE
L 11,100 NE
L 11,200 NE
L 11,300 NE
L 11,400
L 11,500 NE
L 11,600 NE
L 11,700 NE
L 10,500 NE
L 10,600 NE
11,000 NW
10,900 NW
10,800 NW
10,700 NW
10,600 NW
10,500 NW
10,400 NW
10,300 NW
10,200 NW
10,100 NW
BASE LINE 10,000 NW
9,900 NW
9,800 NW
9,700 NW
ANOMALY 'A'
ANOMALY 'C'
ANOMALY 'H'
ANOMALY 'G'
ANOMALY 'G'
ANOMALY 'E'
ANOMALY 'J'
GRID NETWORK
LOCATION MAP
PROJECT AREA
LEGEND
VERTICAL SCALE: 1cm = 20 millimhos/metre
STRONG CONDUCTOR :
MODERATE CONDUCTOR :
WEAK CONDUCTOR :
CONDUCTOR TRACE :
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
Part 3 of 5 8638
MATTAGAMI LAKE EXPLORATION LIMITED.
WESTERN FIELD OFFICE
EDMONTON, ALBERTA
WEIR MOUNTAIN PROJECT.
NORTH-EAST PART. CY-6 CLAIM
MAP 6
EM-31 SURVEY
OPERATOR: L. ALTERTON
DRAWN BY: D.R. BULL.
DATE: JUNE / JULY 1980
DATE: AUGUST 1980
SCALE OF METRES
0
100
200 metres



GRID NETWORK



LOCATION MAP

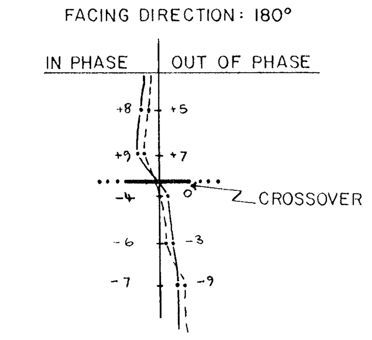


LEGEND

VERTICAL SCALE : 1cm = 20°

STATION USED : CUTLER MAINE

FACING DIRECTION : 180°



Part 3 of 5

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 8638

MATTAGAMI LAKE EXPLORATION LIMITED.

WESTERN FIELD OFFICE

EDMONTON, ALBERTA

WEIR MOUNTAIN PROJECT.

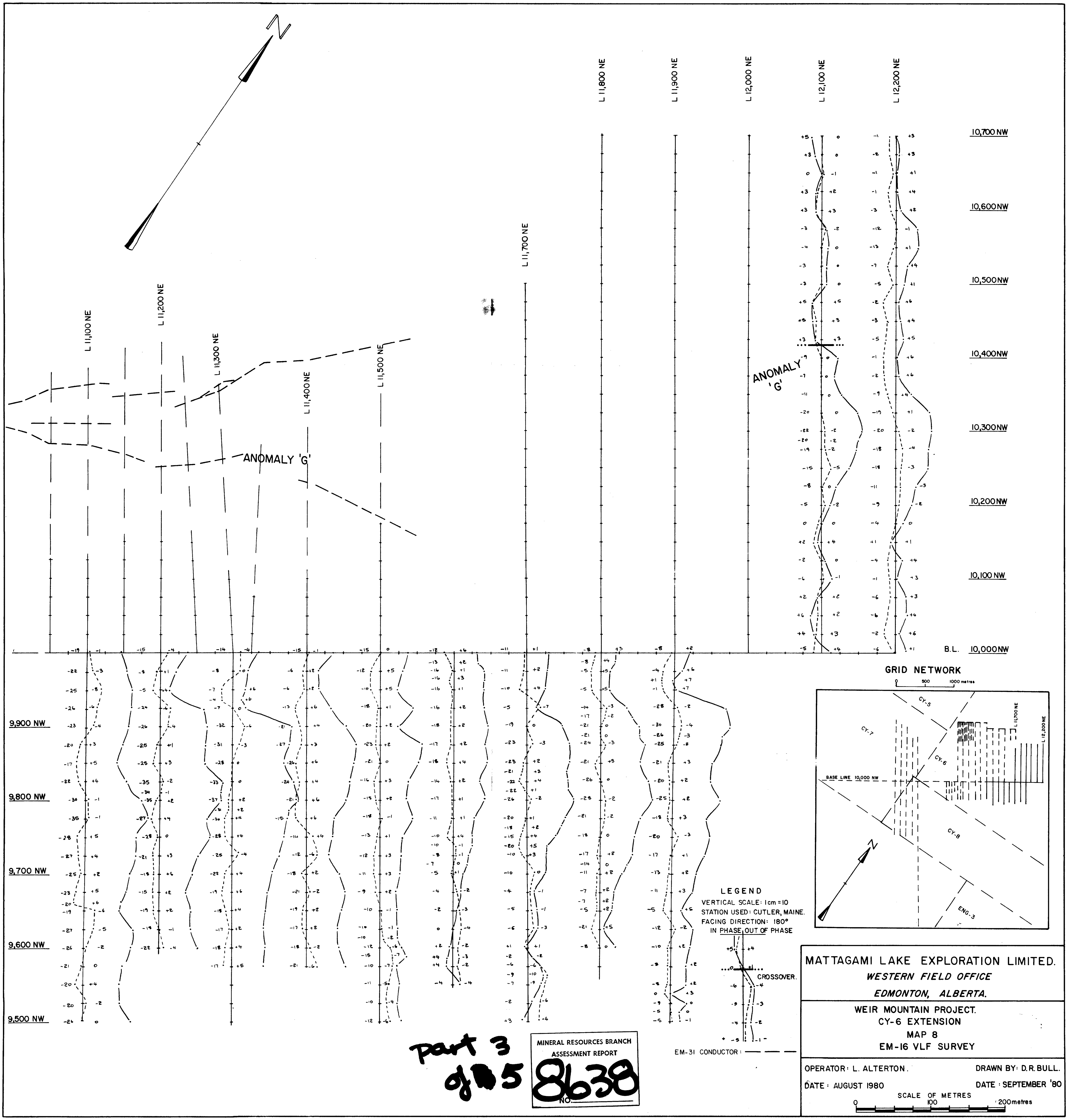
ANOMALY 'C', CY-6 CLAIM, DETAIL GRID.

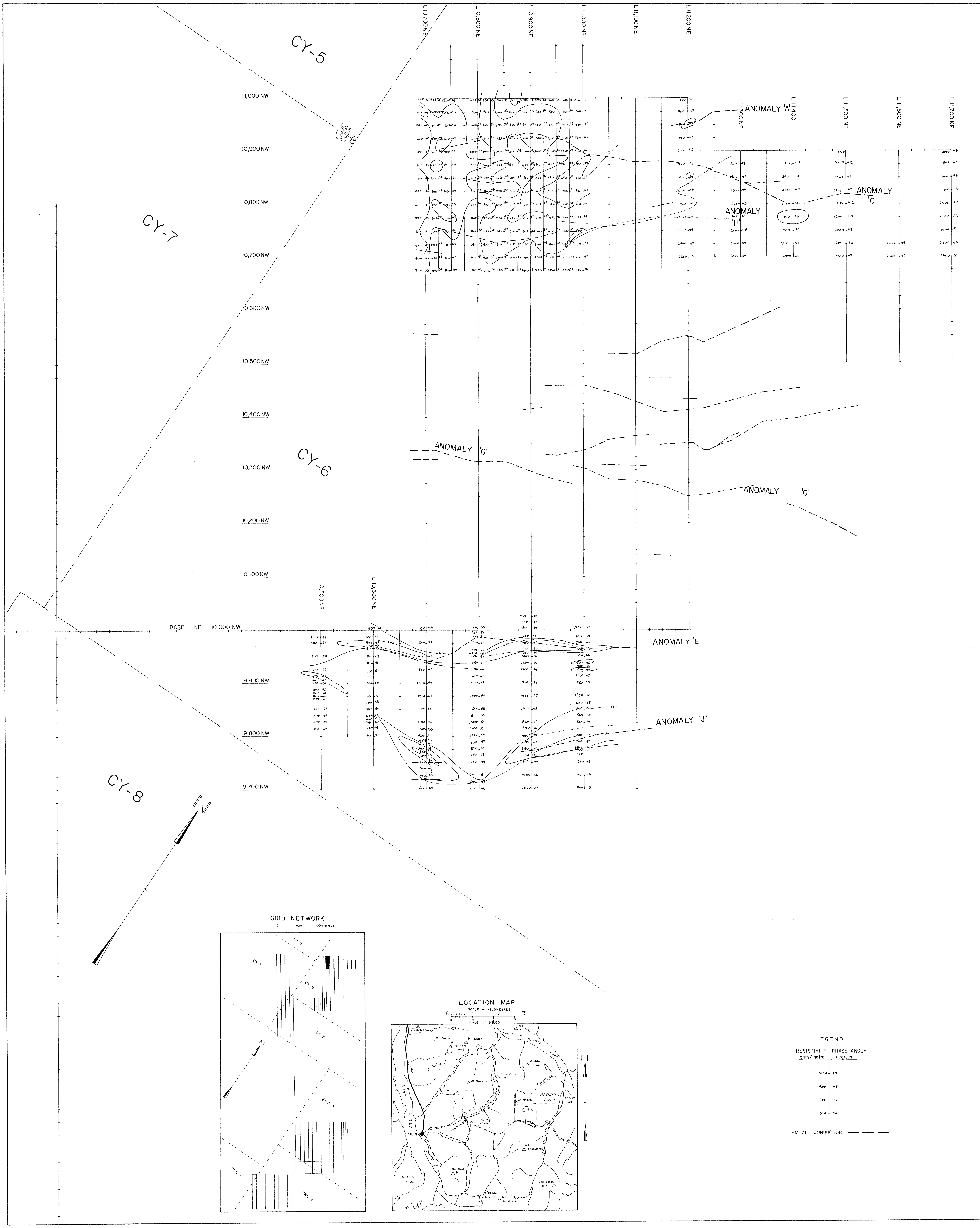
MAP 7

EM-16 SURVEY

OPERATOR: L. ALTERTON.	DRAWN BY: D.R. BULL.
DATE: JUNE / JULY 1980	DATE: SEPTEMBER '80

SCALE OF METRES
0 25 50 75 100 metres


N
L 11,100 NE
L 11,200 NE
L 11,300 NE
L 11,400 NE
L 11,500 NE
L 11,700 NE
L 11,800 NE
L 11,900 NE
L 12,000 NE
L 12,100 NE
L 12,200 NE
10,700 NW
10,600 NW
10,500 NW
10,400 NW
10,300 NW
10,200 NW
10,100 NW
B.L. 10,000 NW
9,900 NW
9,800 NW
9,700 NW
9,600 NW
9,500 NW
ANOMALY 'G'
ANOMALY 'G'
GRID NETWORK
0 500 1000 metres
CY-5
CY-7
CY-6
CY-8
ENG-3
BASE LINE 10,000 NW
L 11,700 NE
L 12,200 NE
LEGEND
VERTICAL SCALE: 1cm = 10
STATION USED: CUTLER, MAINE.
FACING DIRECTION: 180°
IN PHASE OUT OF PHASE
CROSSOVER.
EM-31 CONDUCTOR:
MATTAGAMI LAKE EXPLORATION LIMITED.
WESTERN FIELD OFFICE
EDMONTON, ALBERTA.
WEIR MOUNTAIN PROJECT.
CY-6 EXTENSION
MAP 8
EM-16 VLF SURVEY
OPERATOR: L. ALTERTON.
DRAWN BY: D.R. BULL.
DATE: AUGUST 1980
DATE: SEPTEMBER '80
SCALE OF METRES
0 100 200 metres
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 8638
part 3 of 5



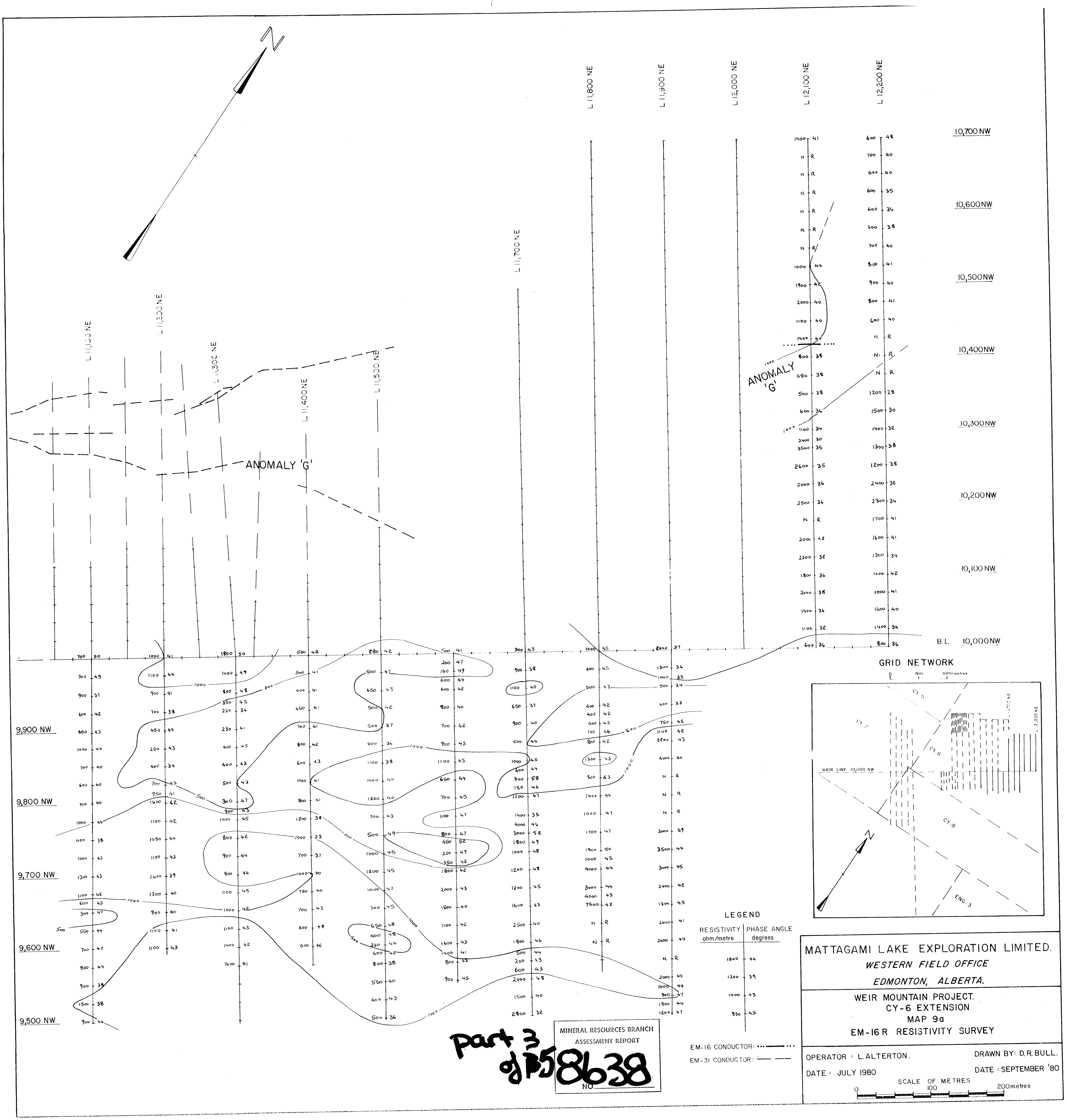
Part 3 of 5

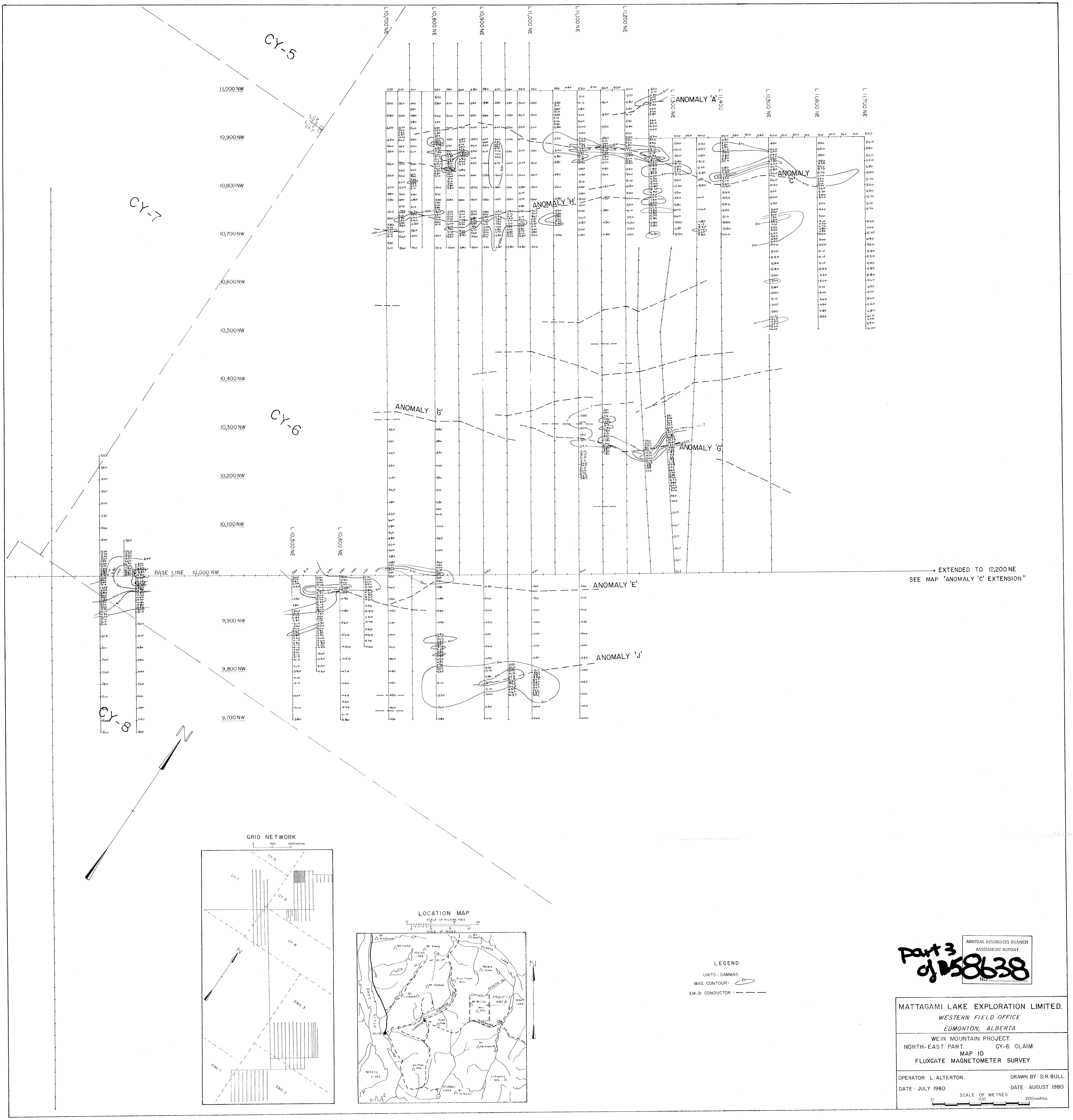
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 8638

MATTAGAMI LAKE EXPLORATION LIMITED.
WESTERN FIELD OFFICE
EDMONTON, ALBERTA

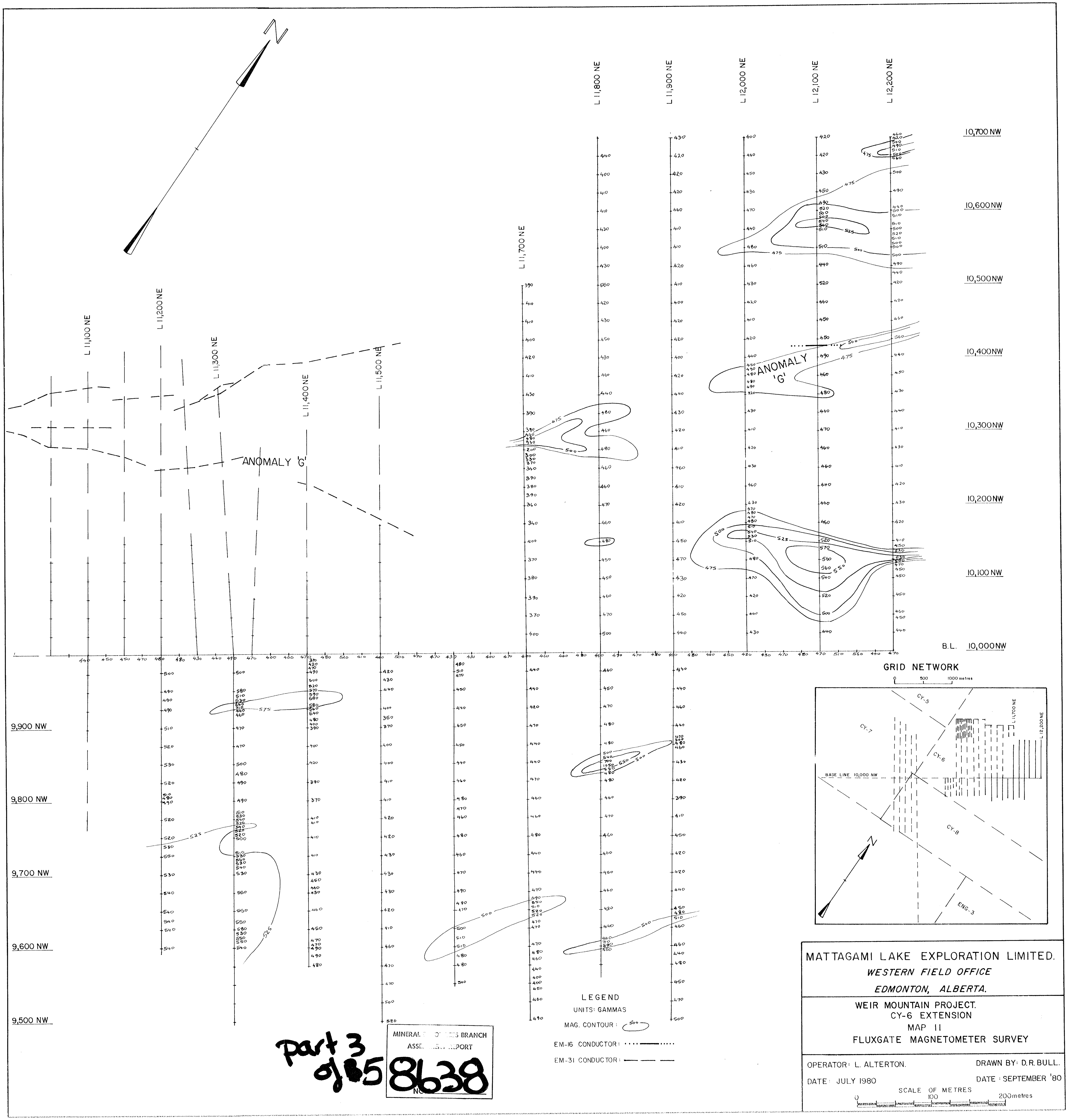
WEIR MOUNTAIN PROJECT.
NORTH-EAST PART. CY-6 CLAIM
MAP 9
EM-16R SURVEY

OPERATOR: L. ALTERTON. DRAWN BY: D.R. BULL.
DATE: JUNE 1980 DATE: AUGUST 1980
SCALE OF METRES
0 100 200 metres


N
L 11,100 NE
L 11,200 NE
L 11,300 NE
L 11,400 NE
L 11,500 NE
L 11,700 NE
L 11,800 NE
L 11,900 NE
L 12,000 NE
L 12,100 NE
L 12,200 NE
ANOMALY 'G'
ANOMALY 'G'
10,700 NW
10,600 NW
10,500 NW
10,400 NW
10,300 NW
10,200 NW
10,100 NW
B.L. 10,000 NW
9,900 NW
9,800 NW
9,700 NW
9,600 NW
9,500 NW
GRID NETWORK
BASE LINE 10,000 NW
CY-6
CY-8
ENG-3
LEGEND
RESISTIVITY ohm/metre
PHASE ANGLE degrees
EM-16 CONDUCTOR
EM-31 CONDUCTOR
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 8638
Part 3 of 5
MATTAGAMI LAKE EXPLORATION LIMITED.
WESTERN FIELD OFFICE
EDMONTON, ALBERTA.
WEIR MOUNTAIN PROJECT.
CY-6 EXTENSION
MAP 9a
EM-16 R RESISTIVITY SURVEY
OPERATOR : L. ALTERTON.
DATE : JULY 1980
DRAWN BY: D.R. BULL.
DATE : SEPTEMBER '80
SCALE OF METRES
0
100
200 metres



CY-5
CY-6
CY-7
CY-8
L 10,500 NE
L 10,600 NE
L 10,700 NE
L 10,800 NE
L 10,900 NE
L 11,000 NE
L 11,100 NE
L 11,200 NE
L 11,300 NE
L 11,400 NE
L 11,500 NE
L 11,600 NE
L 11,700 NE
11,000 NW
10,900 NW
10,800 NW
10,700 NW
10,600 NW
10,500 NW
10,400 NW
10,300 NW
10,200 NW
10,100 NW
9,900 NW
9,800 NW
9,700 NW
BASE LINE 10,000 NW
EXTENDED TO 12,200 NE
SEE MAP "ANOMALY 'C' EXTENSION"
ANOMALY 'A'
ANOMALY 'C'
ANOMALY 'H'
ANOMALY 'G'
ANOMALY 'E'
ANOMALY 'J'
N
GRID NETWORK
LOCATION MAP
LEGEND
UNITS: GAMMAS
MAG. CONTOUR
EM-31 CONDUCTOR
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO.
MATTAGAMI LAKE EXPLORATION LIMITED.
WESTERN FIELD OFFICE
EDMONTON, ALBERTA
WEIR MOUNTAIN PROJECT.
NORTH-EAST PART. CY-6 CLAIM
MAP 10
FLUXGATE MAGNETOMETER SURVEY
OPERATOR: L. ALTERTON.
DRAWN BY: D.R. BULL.
DATE: JULY 1980
DATE: AUGUST 1980
SCALE OF METRES
0
100
200 metres



MATTAGAMI LAKE EXPLORATION LIMITED.

WESTERN FIELD OFFICE

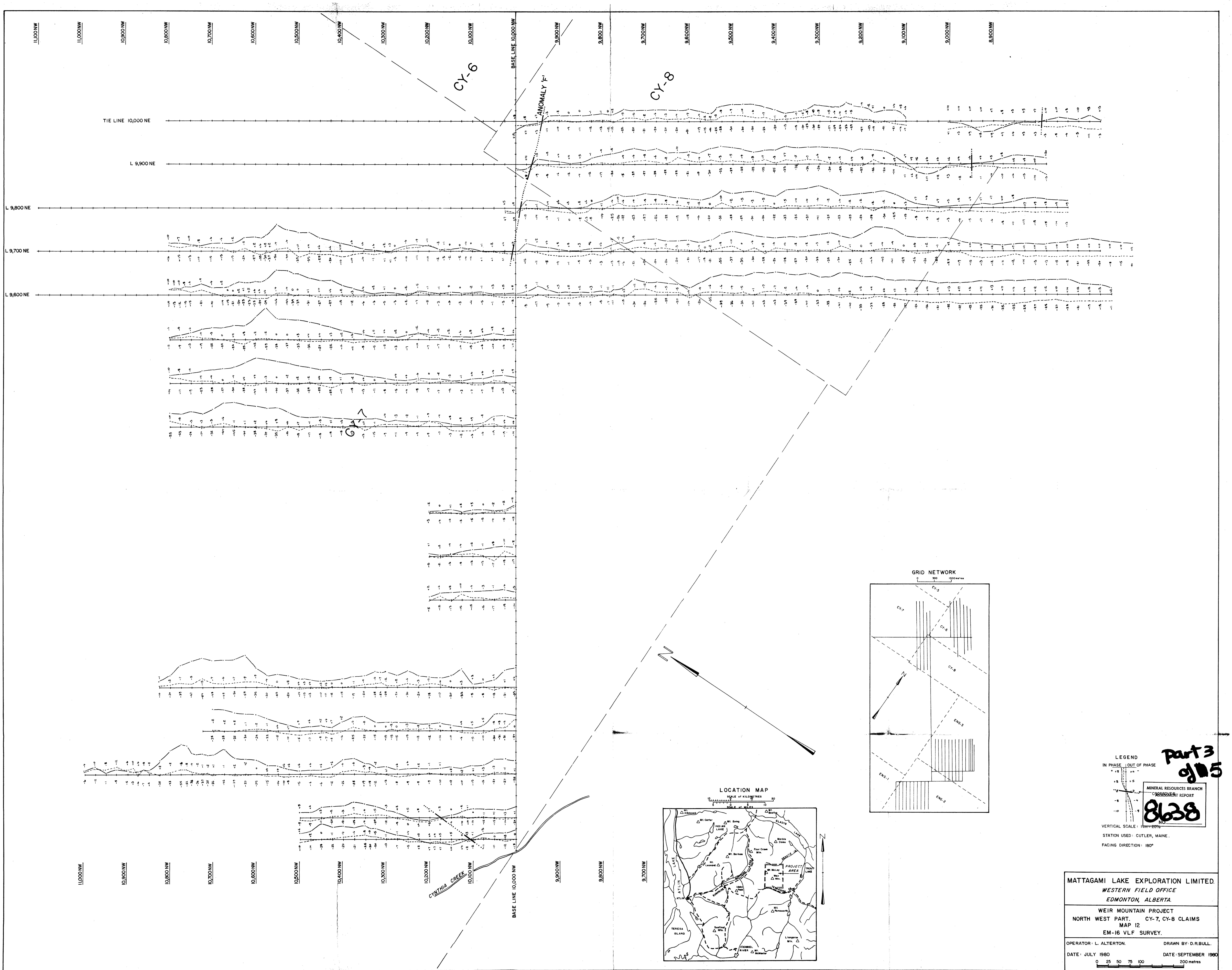
EDMONTON, ALBERTA.

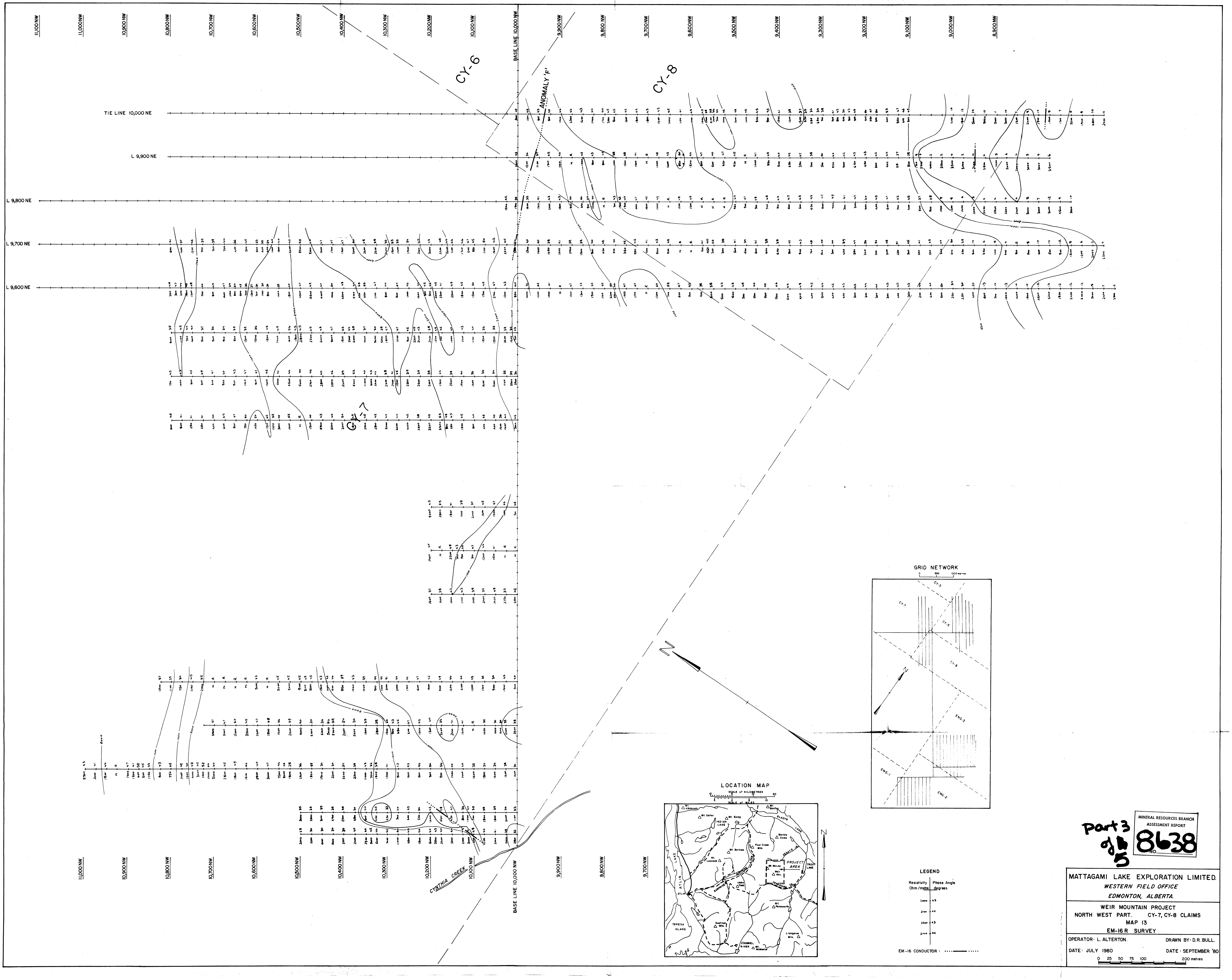
WEIR MOUNTAIN PROJECT.
CY-6 EXTENSION
MAP 11
FLUXGATE MAGNETOMETER SURVEY

OPERATOR: L. ALTERTON. DRAWN BY: D.R. BULL.

DATE: JULY 1980 DATE: SEPTEMBER '80

SCALE OF METRES
0 100 200 metres


11,000 NW
10,900 NW
10,800 NW
10,700 NW
10,600 NW
10,500 NW
10,400 NW
10,300 NW
10,200 NW
10,100 NW
BASE LINE 10,000 NW
9,900 NW
9,800 NW
9,700 NW
9,600 NW
9,500 NW
9,400 NW
9,300 NW
9,200 NW
9,100 NW
9,000 NW
8,900 NW
CY-6
CY-8
ANOMALY 'F'
TIE LINE 10,000 NE
L 9,900 NE
L 9,800 NE
L 9,700 NE
L 9,600 NE
CYNTHIA CREEK
N
GRID NETWORK
LOCATION MAP
LEGEND
IN PHASE
OUT OF PHASE
CROSSOVER
VERTICAL SCALE: 1cm = 20%
STATION USED: CUTLER, MAINE.
FACING DIRECTION: 180°
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8638
NO.
Part 3 of 5
MATTAGAMI LAKE EXPLORATION LIMITED.
WESTERN FIELD OFFICE
EDMONTON, ALBERTA.
WEIR MOUNTAIN PROJECT
NORTH WEST PART. CY-7, CY-8 CLAIMS
MAP 12
EM-16 VLF SURVEY.
OPERATOR: L. ALTERTON.
DRAWN BY: D.R.BULL.
DATE: JULY 1980
DATE: SEPTEMBER 1980
0 25 50 75 100 200 metres

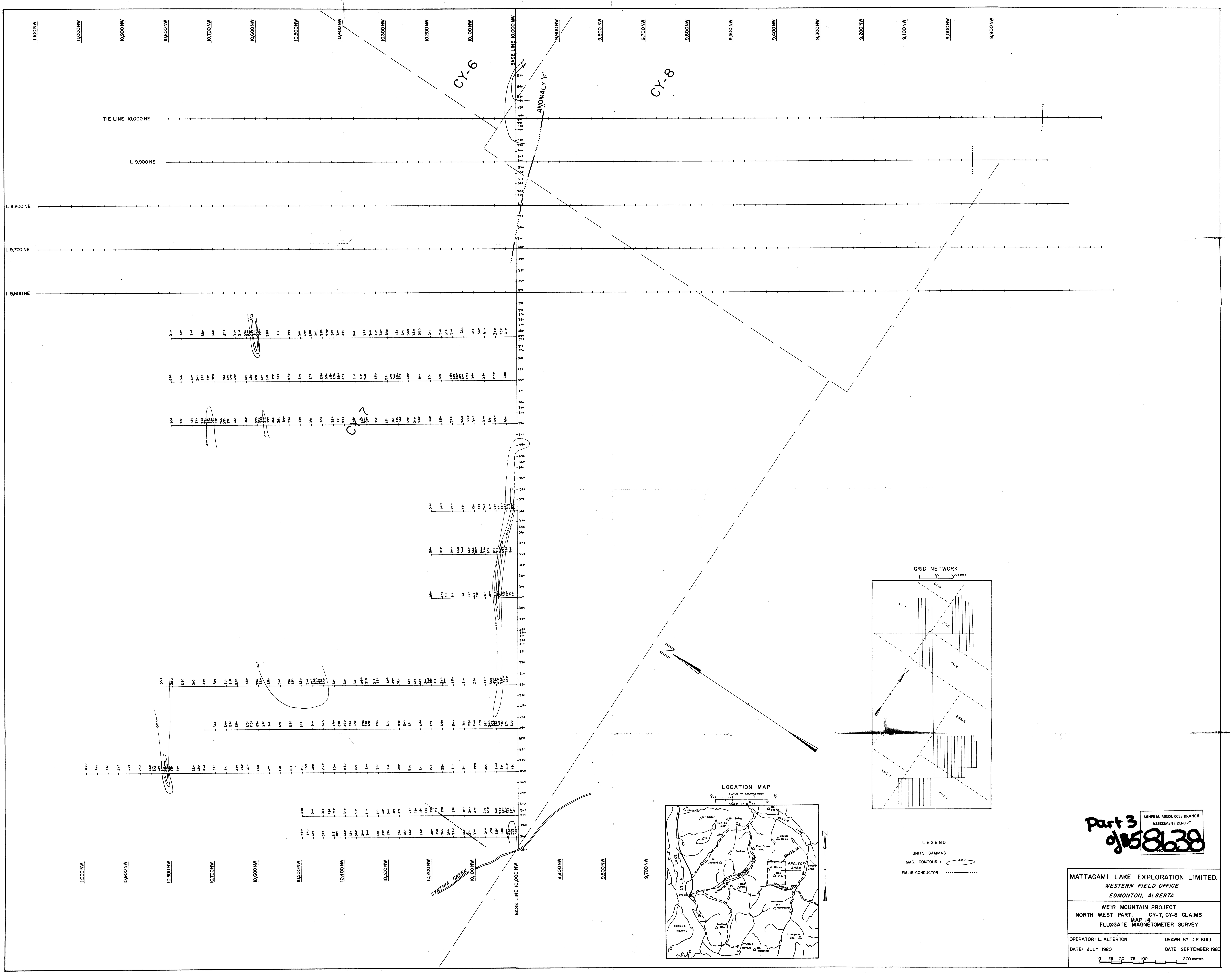


MATTAGAMI LAKE EXPLORATION LIMITED.
WESTERN FIELD OFFICE
EDMONTON, ALBERTA.

WEIR MOUNTAIN PROJECT
NORTH WEST PART. CY-7, CY-8 CLAIMS
MAP 13
EM-16 R SURVEY

OPERATOR: L. ALTERTON.
DRAWN BY: D.R.BULL.
DATE: JULY 1980
DATE: SEPTEMBER '80

0 25 50 75 100 200 metres

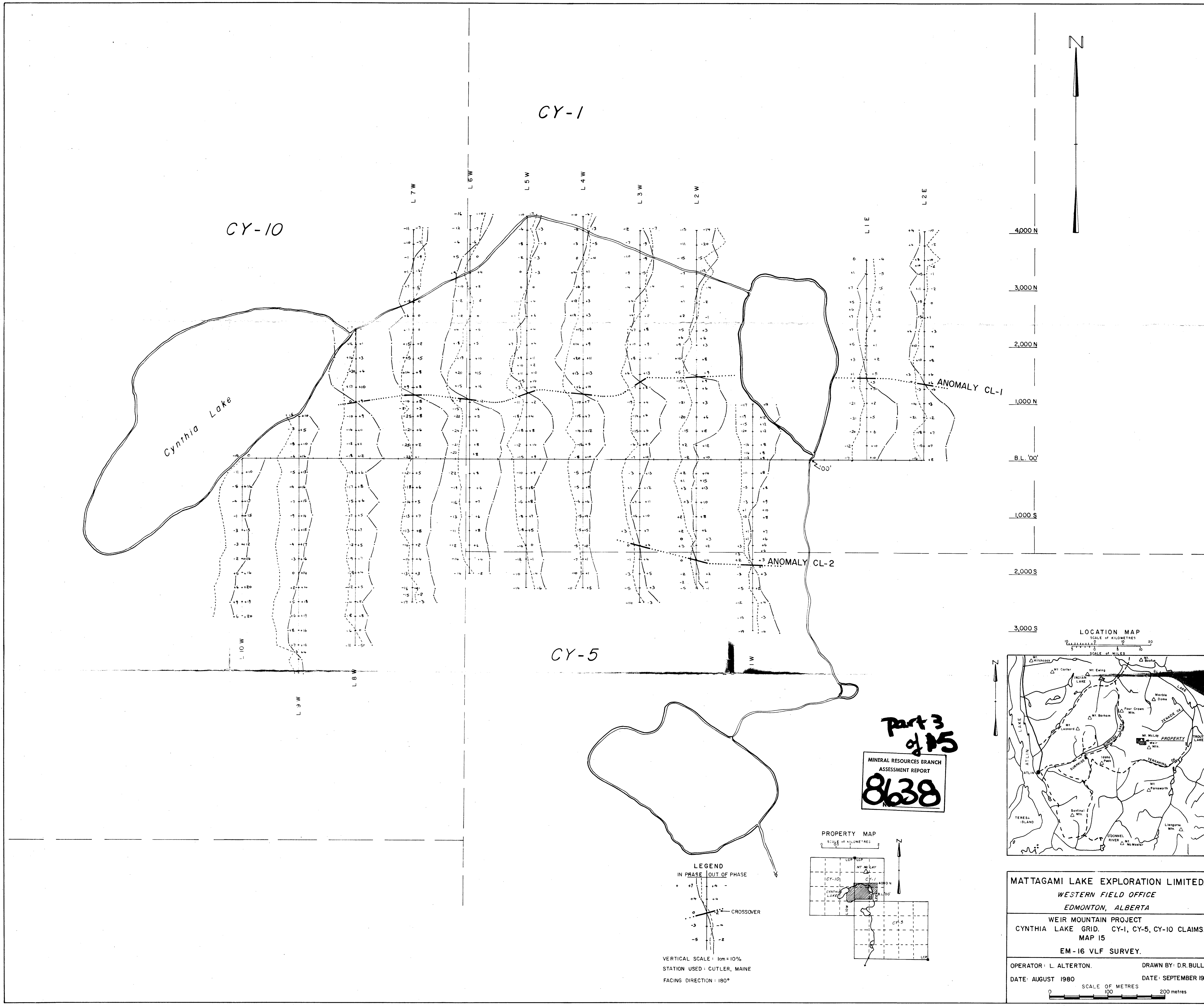


MATTAGAMI LAKE EXPLORATION LIMITED.
WESTERN FIELD OFFICE
EDMONTON, ALBERTA.

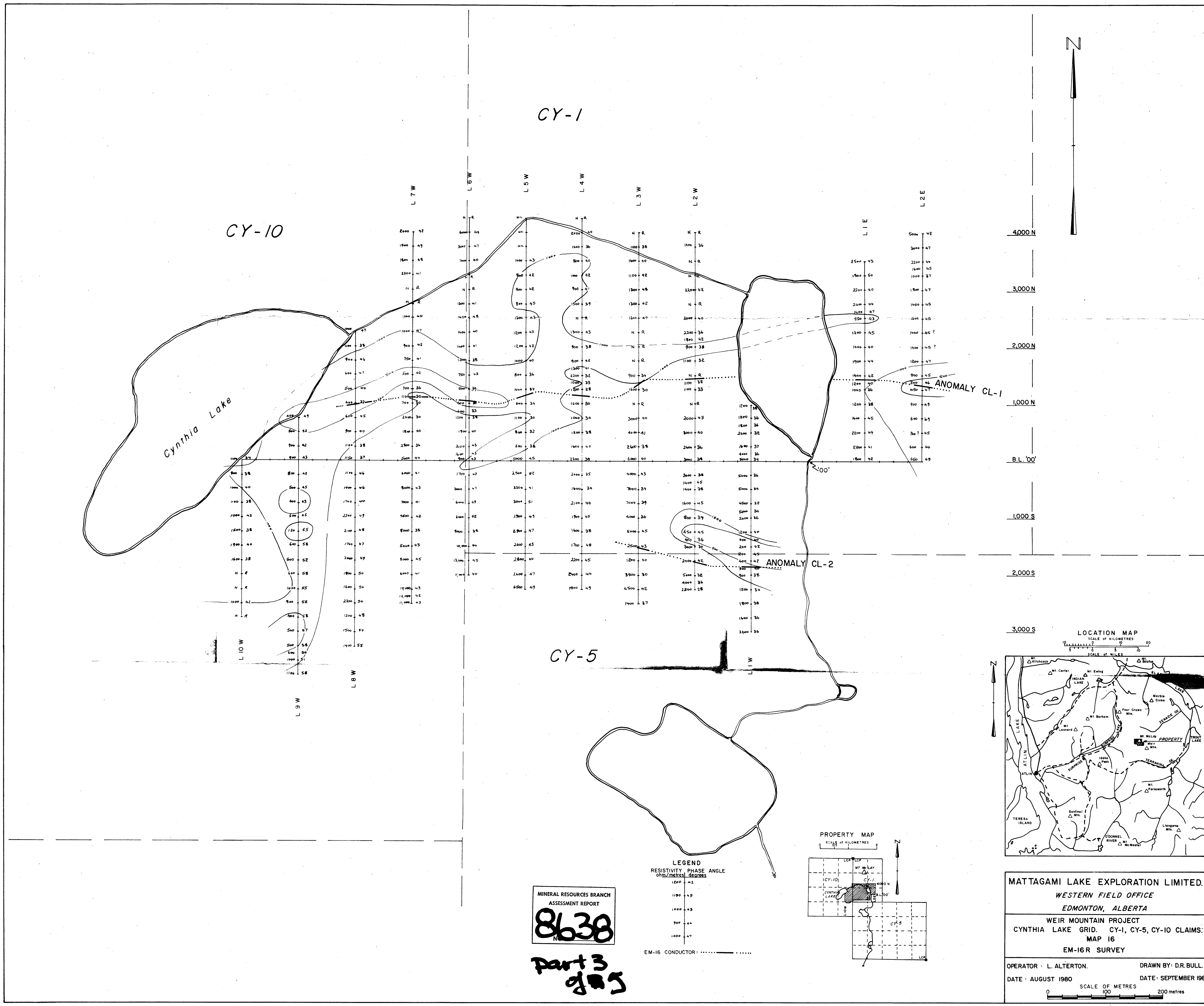
WEIR MOUNTAIN PROJECT
NORTH WEST PART. CY-7, CY-8 CLAIMS
MAP 14
FLUXGATE MAGNETOMETER SURVEY

OPERATOR: L. ALTERTON. DRAWN BY: D.R. BULL.
DATE: JULY 1980 DATE: SEPTEMBER 1980

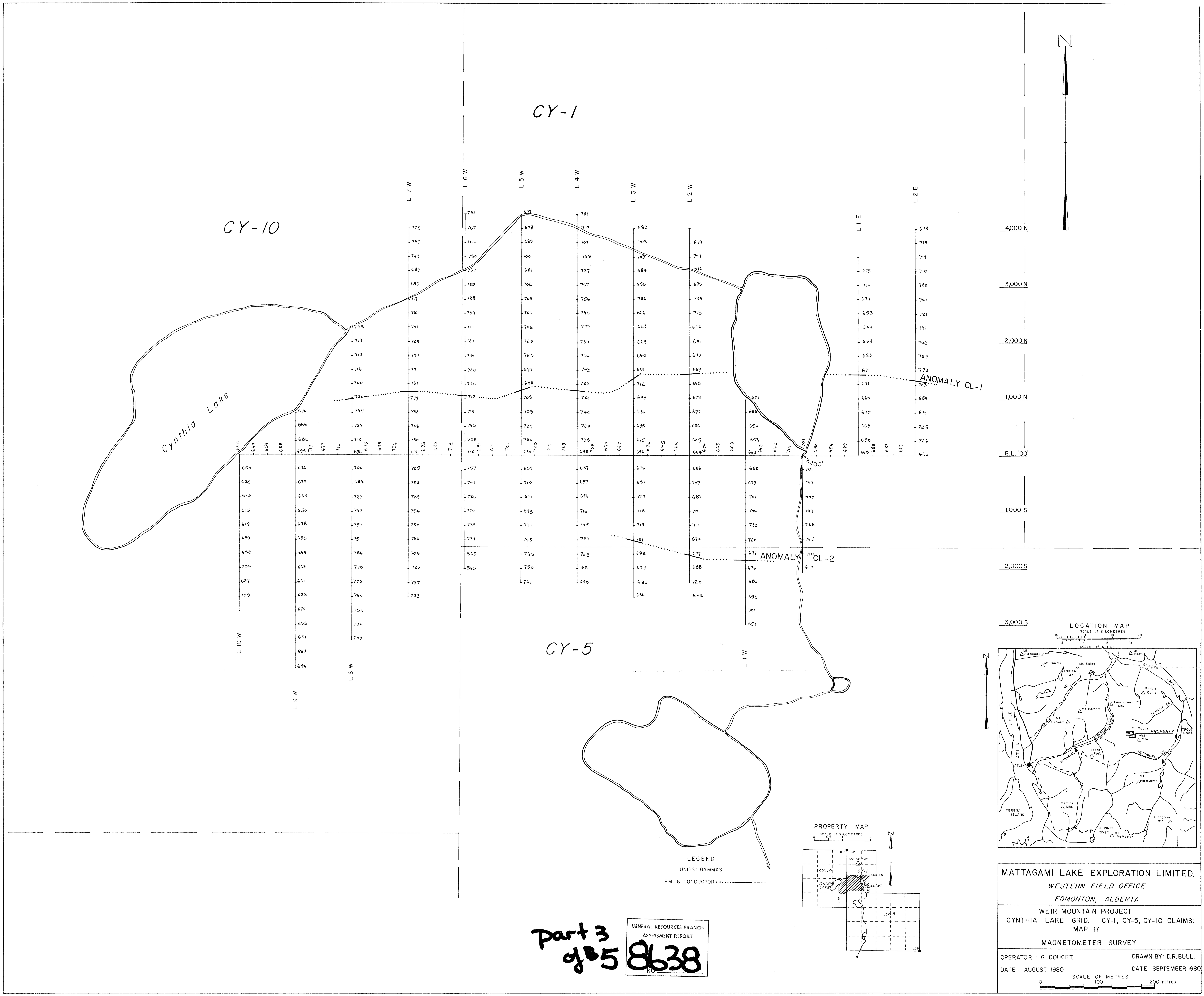
0 25 50 75 100 200 metres

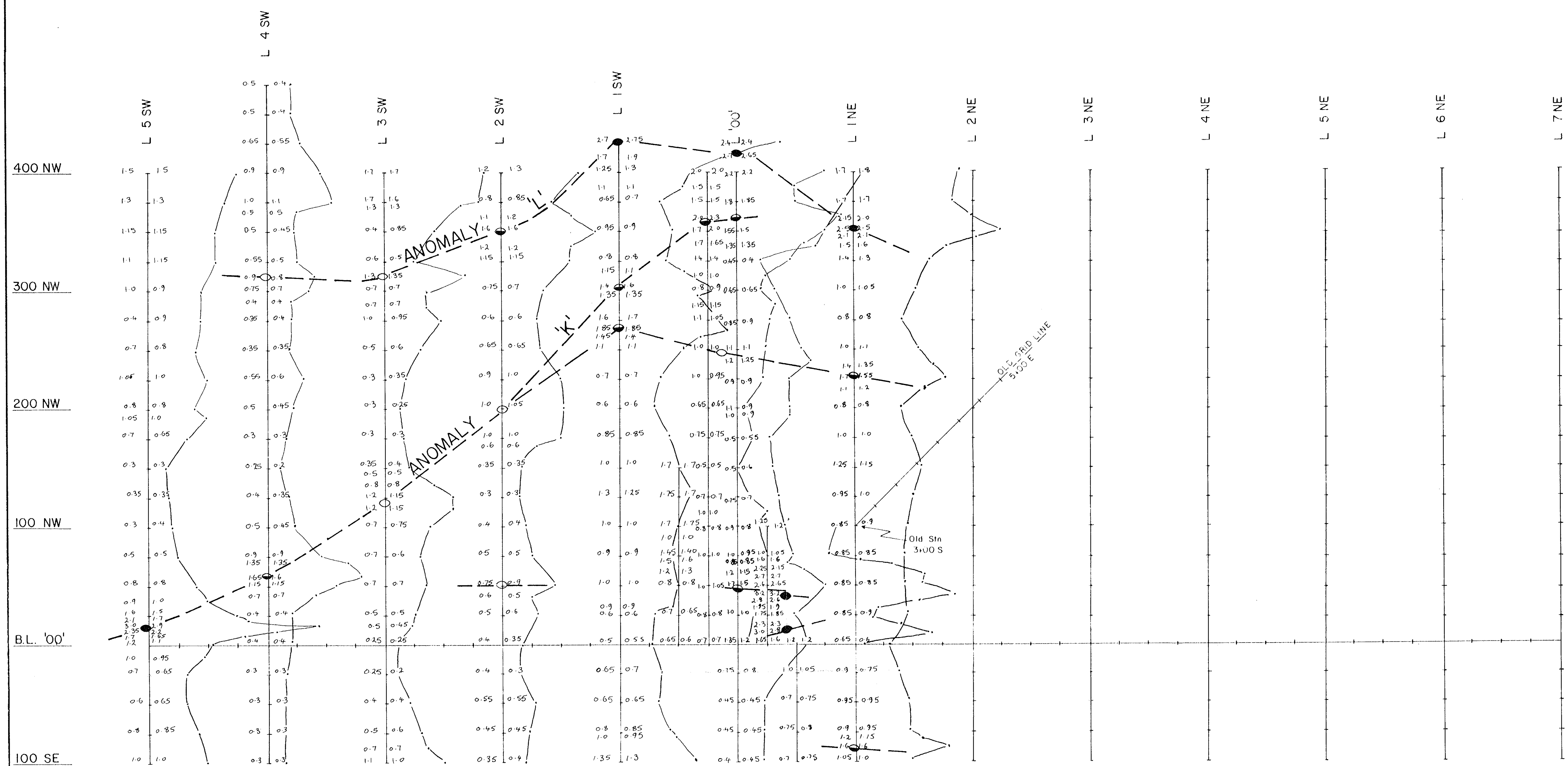


N
CY-1
CY-10
CY-5
Cynthia Lake
L 10 W
L 9 W
L 8 W
L 7 W
L 6 W
L 5 W
L 4 W
L 3 W
L 2 W
L 1 W
L 1 E
L 2 E
4,000 N
3,000 N
2,000 N
1,000 N
B.L. '00'
1,000 S
2,000 S
3,000 S
'00'
ANOMALY CL-1
ANOMALY CL-2
part 3 of 5
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8638
LOCATION MAP
PROPERTY MAP
LEGEND
IN PHASE
OUT OF PHASE
CROSSOVER
VERTICAL SCALE : 1cm = 10%
STATION USED : CUTLER, MAINE
FACING DIRECTION : 180°
MATTAGAMI LAKE EXPLORATION LIMITED.
WESTERN FIELD OFFICE
EDMONTON, ALBERTA
WEIR MOUNTAIN PROJECT
CYNTHIA LAKE GRID. CY-1, CY-5, CY-10 CLAIMS.
MAP 15
EM-16 VLF SURVEY.
OPERATOR: L. ALTERTON.
DRAWN BY: D.R. BULL.
DATE: AUGUST 1980
DATE: SEPTEMBER 1980
SCALE OF METRES
0
100
200 metres

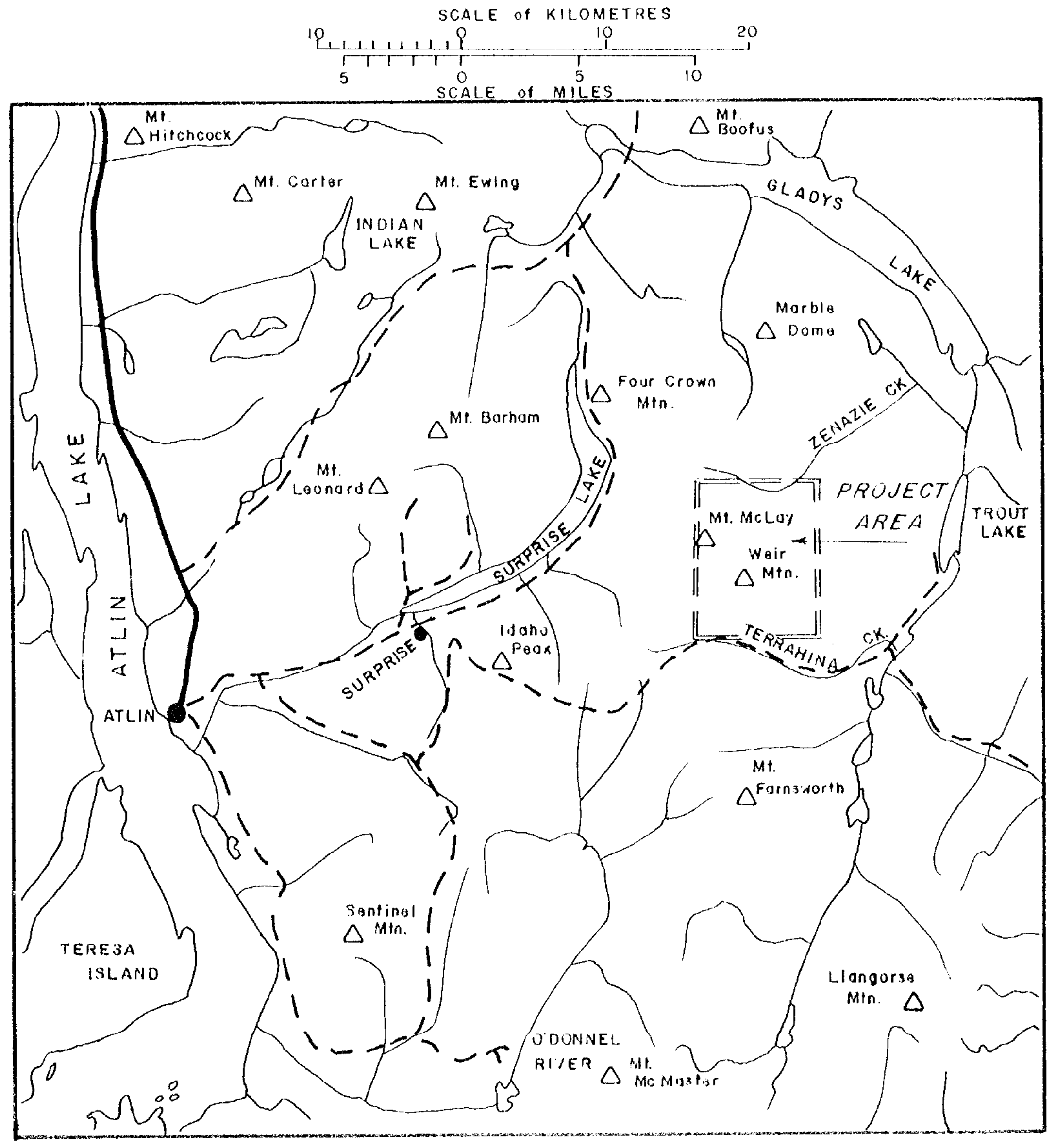

CY-1
CY-10
CY-5
Cynthia Lake
L 10 W
L 9 W
L 8 W
L 7 W
L 6 W
L 5 W
L 4 W
L 3 W
L 2 W
L 1 W
L 1 E
L 2 E
4,000 N
3,000 N
2,000 N
1,000 N
B.L. '00'
1,000 S
2,000 S
3,000 S
ANOMALY CL-1
ANOMALY CL-2
N
LOCATION MAP
SCALE of KILOMETRES
SCALE of MILES
ATLIN
PROPERTY
PROPERTY MAP
SCALE of KILOMETRES
LEGEND
RESISTIVITY PHASE ANGLE
ohm/metres degrees
EM-16 CONDUCTOR
MATTAGAMI LAKE EXPLORATION LIMITED.
WESTERN FIELD OFFICE
EDMONTON, ALBERTA
WEIR MOUNTAIN PROJECT
CYNTHIA LAKE GRID. CY-1, CY-5, CY-10 CLAIMS.
MAP 16
EM-16R SURVEY
OPERATOR : L. ALTERTON.
DRAWN BY: D.R. BULL.
DATE : AUGUST 1980
DATE: SEPTEMBER 1980
SCALE OF METRES
0 100 200 metres

part 3 of 5

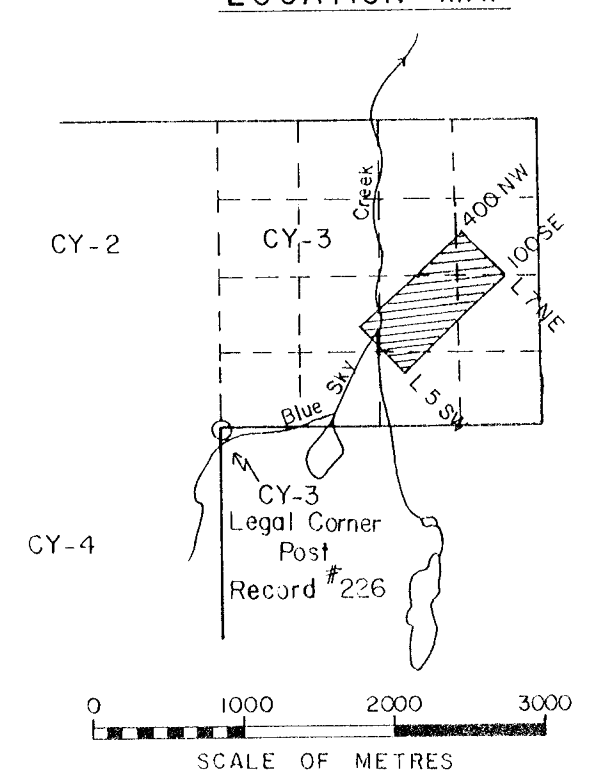

N
CY-1
CY-10
CY-5
Cynthia Lake
L 10 W
L 9 W
L 8 W
L 7 W
L 6 W
L 5 W
L 4 W
L 3 W
L 2 W
L 1 W
L 1 E
L 2 E
4,000 N
3,000 N
2,000 N
1,000 N
B.L. '00'
'00'
1,000 S
2,000 S
3,000 S
ANOMALY CL-1
ANOMALY CL-2
LEGEND
UNITS: GAMMAS
EM-16 CONDUCTOR :
PROPERTY MAP
SCALE of KILOMETRES
LOCATION MAP
SCALE of KILOMETRES
SCALE of MILES
PROPERTY
ATLIN
ATLIN LAKE
MATTAGAMI LAKE EXPLORATION LIMITED.
WESTERN FIELD OFFICE
EDMONTON, ALBERTA
WEIR MOUNTAIN PROJECT
CYNTHIA LAKE GRID. CY-1, CY-5, CY-10 CLAIMS;
MAP 17
MAGNETOMETER SURVEY
OPERATOR : G. DOUCET.
DRAWN BY: D.R. BULL.
DATE : AUGUST 1980
DATE: SEPTEMBER 1980
SCALE OF METRES
0
100
200 metres
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO 8638
part 3 of 5



LOCATION MAP



LOCATION MAP



LEGEND

VERTICAL SCALE: 1 cm = 0.5 millimhos/metre

STRONG CONDUCTOR: ●

MODERATE CONDUCTOR: ◒

WEAK CONDUCTOR: ○

CONDUCTOR TRACE: — — — —

MATTAGAMI LAKE EXPLORATION LIMITED.

WESTERN FIELD OFFICE

EDMONTON, ALBERTA

WEIR MOUNTAIN PROJECT

BLUE SKY GRID (NEW GRID) CY-3 CLAIM

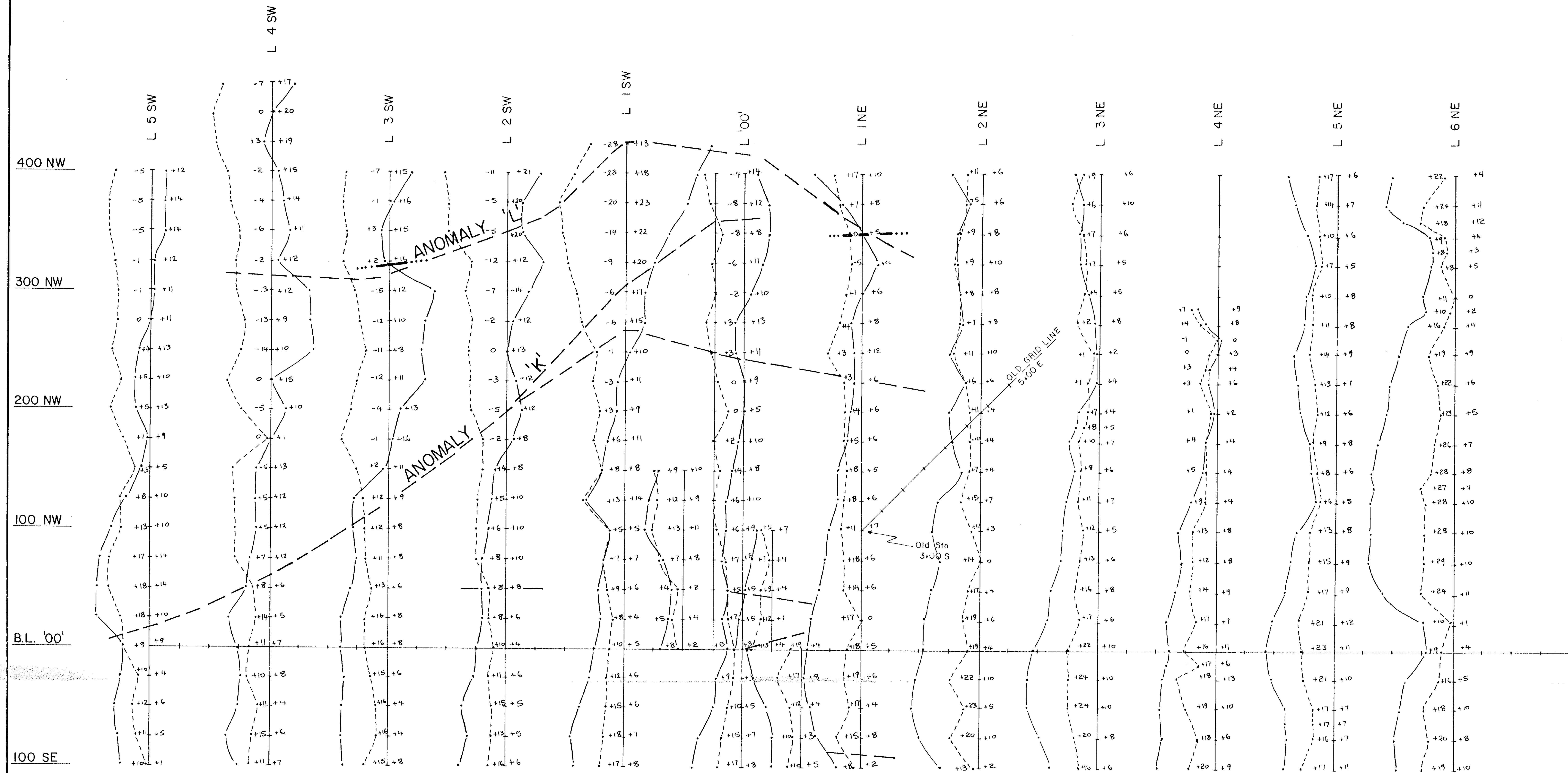
MAP 18

EM-31 SURVEY

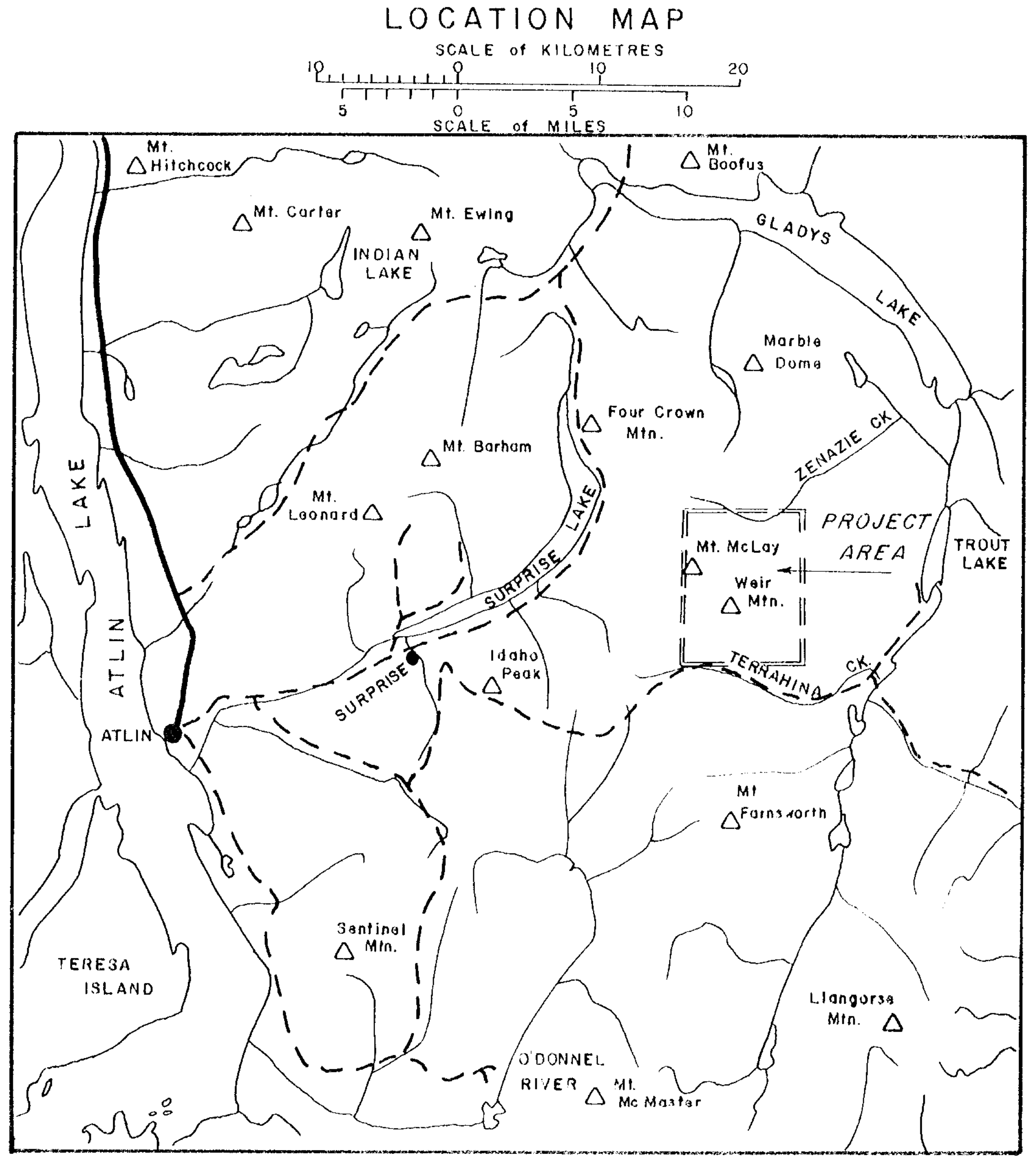
OPERATOR: L. ALTERTON. DRAWN BY: D.R. BULL.

DATE: JULY 1980 DATE: AUGUST 1980

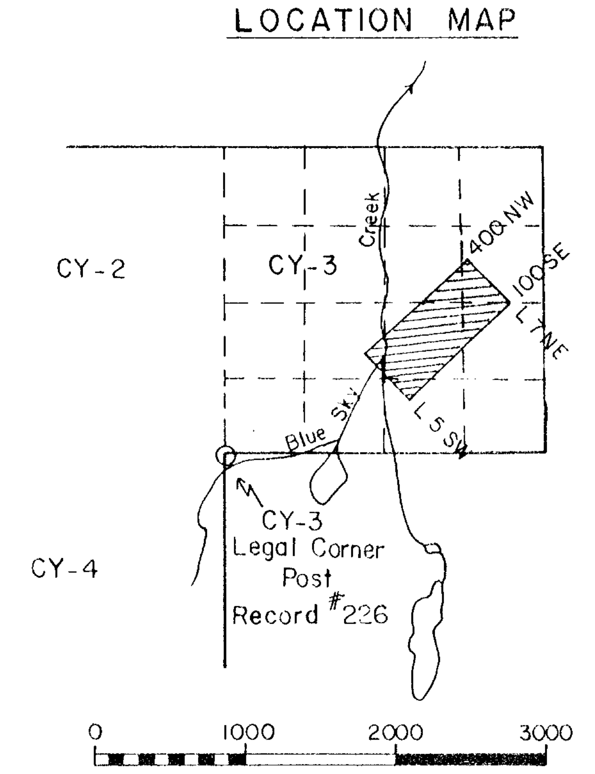
SCALE OF METRES 0 100 200 metres



LOCATION MAP



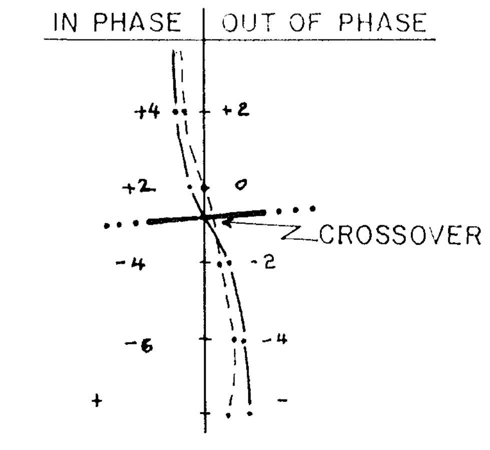
LOCATION MAP



LEGEND

VERTICAL SCALE: 1cm: 10
STATION USED: CUTLER, MAINE
FACING DIRECTION: 180°

IN PHASE | OUT OF PHASE



EM-31 CONDUCTOR: — — —

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 8638

Part 3 of 5

MATTAGAMI LAKE EXPLORATION LIMITED.

WESTERN FIELD OFFICE

EDMONTON, ALBERTA

WEIR MOUNTAIN PROJECT

BLUE SKY GRID (NEW GRID) CY-3 CLAIM

MAP 19

EM-16 SURVEY

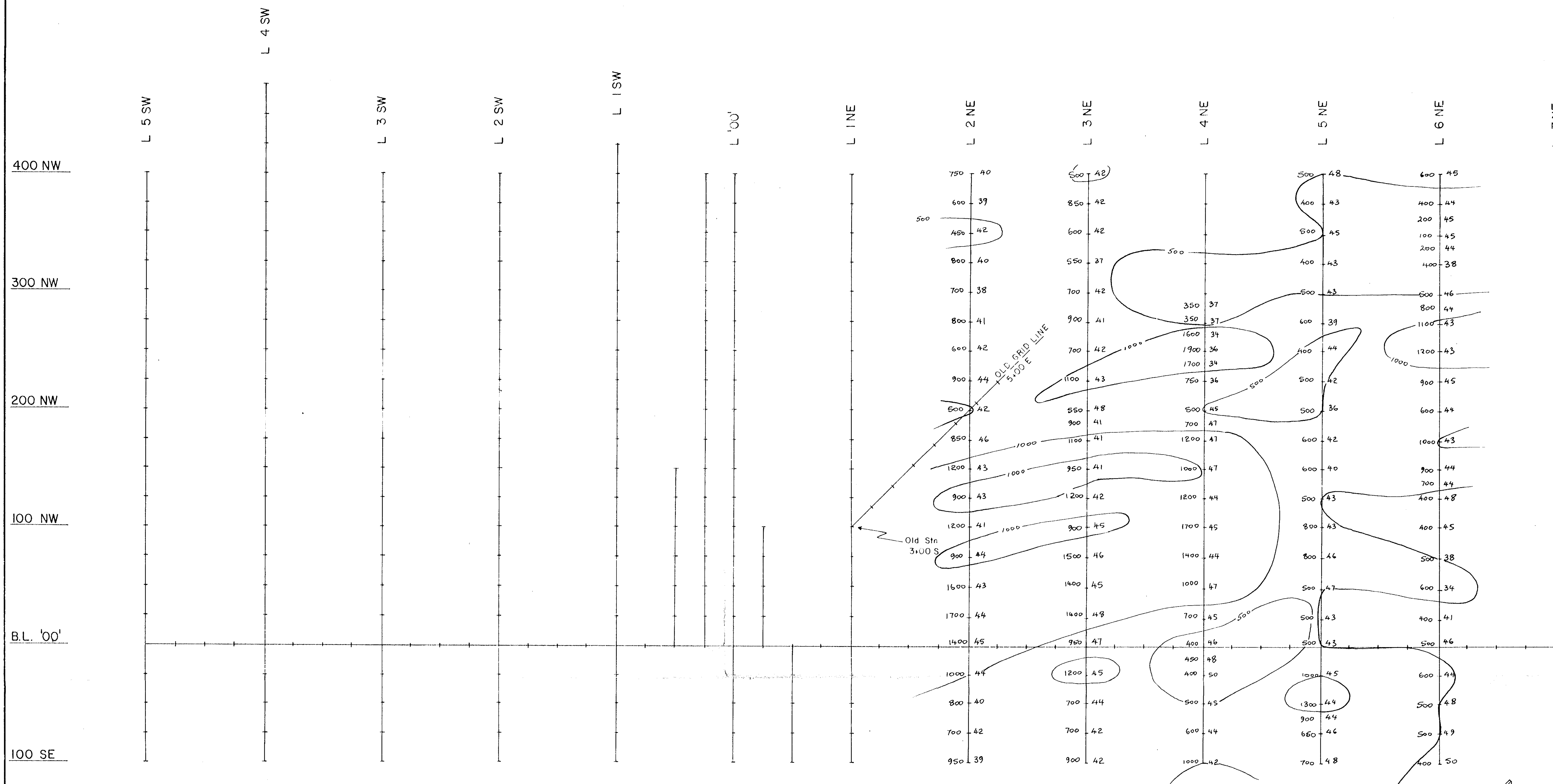
OPERATOR: L. ALTERTON.

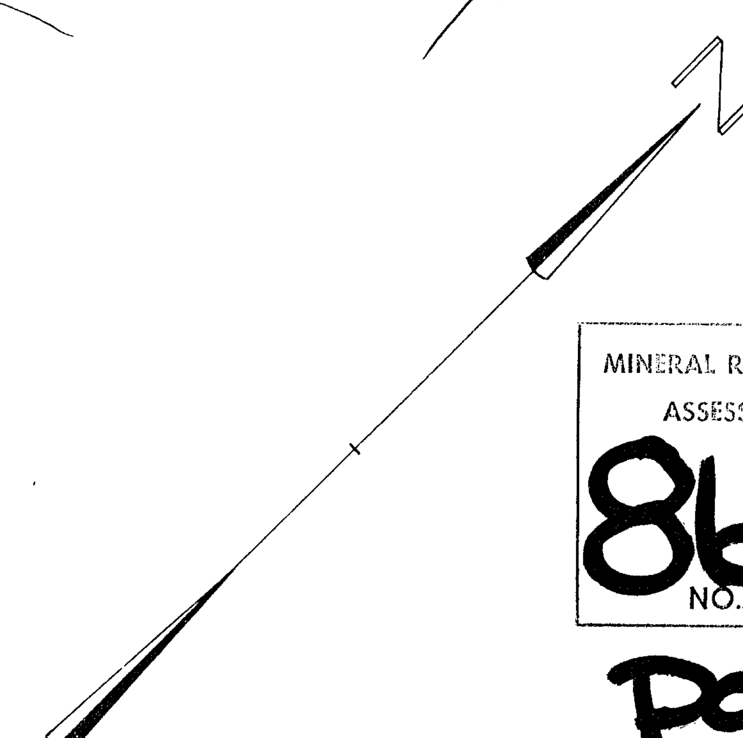
DRAWN BY: D.R. BULL.

DATE: JULY 1980

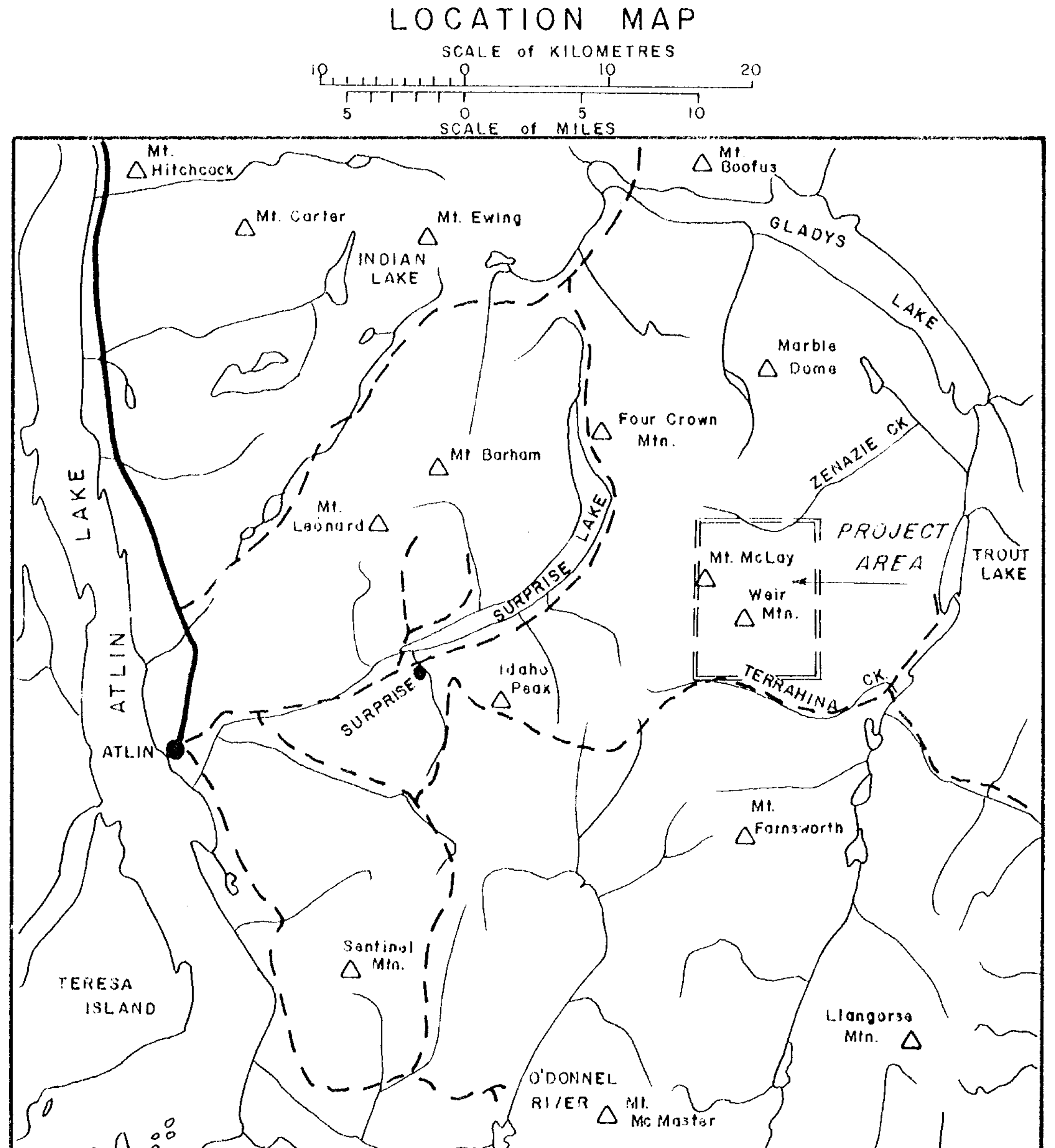
DATE: AUGUST 1980

SCALE OF METRES 0 100 200 metres

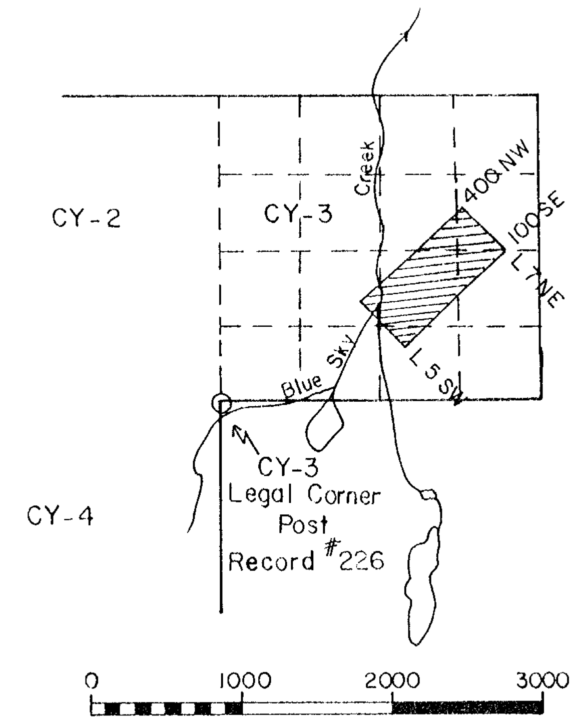




LOCATION MAP



LOCATION MAP



LEGEND

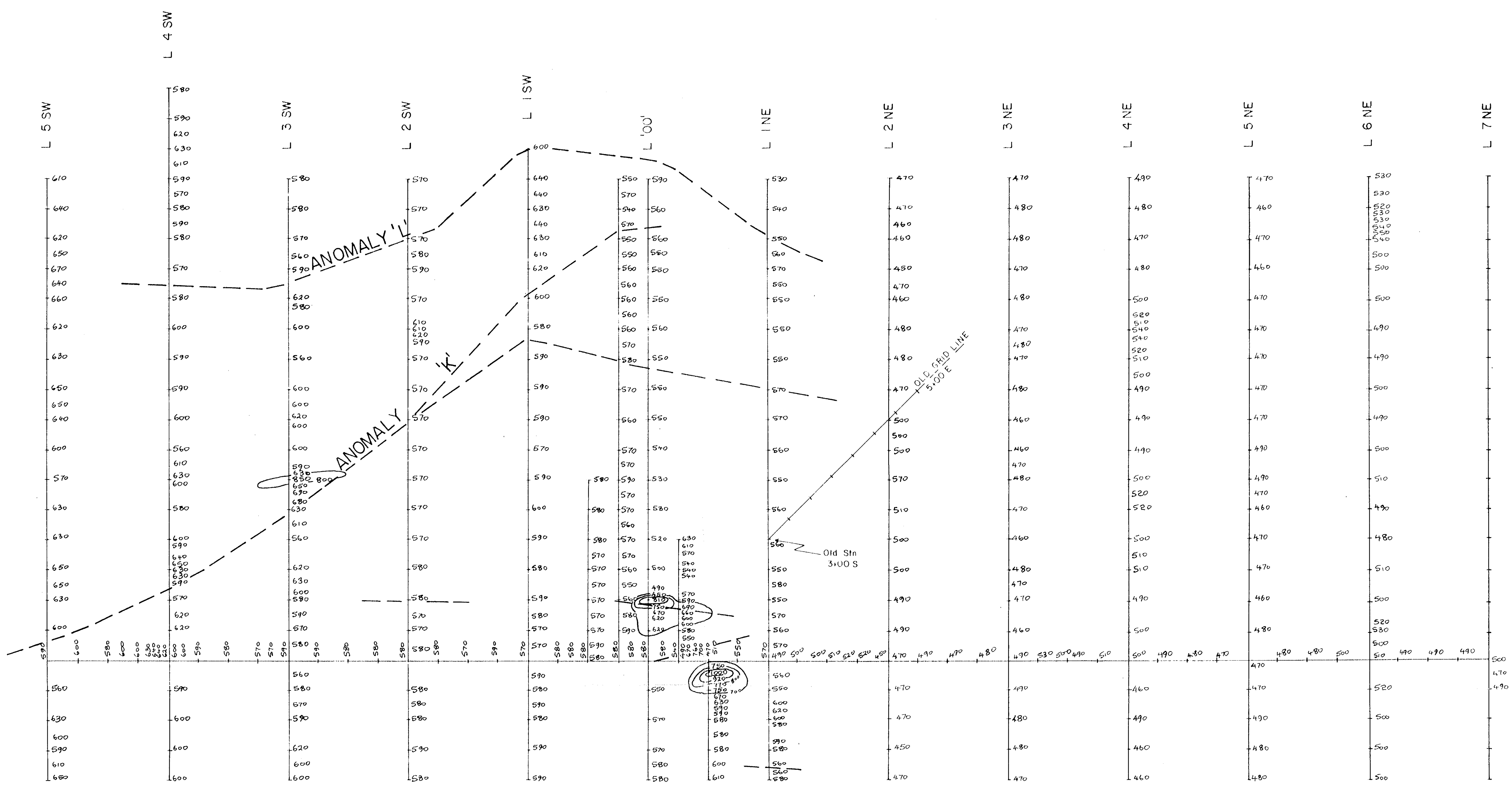
RESISTIVITY ohm/metres	PHASE ANGLE degrees
2000	40
1600	42
1100	45
900	42
1200	40

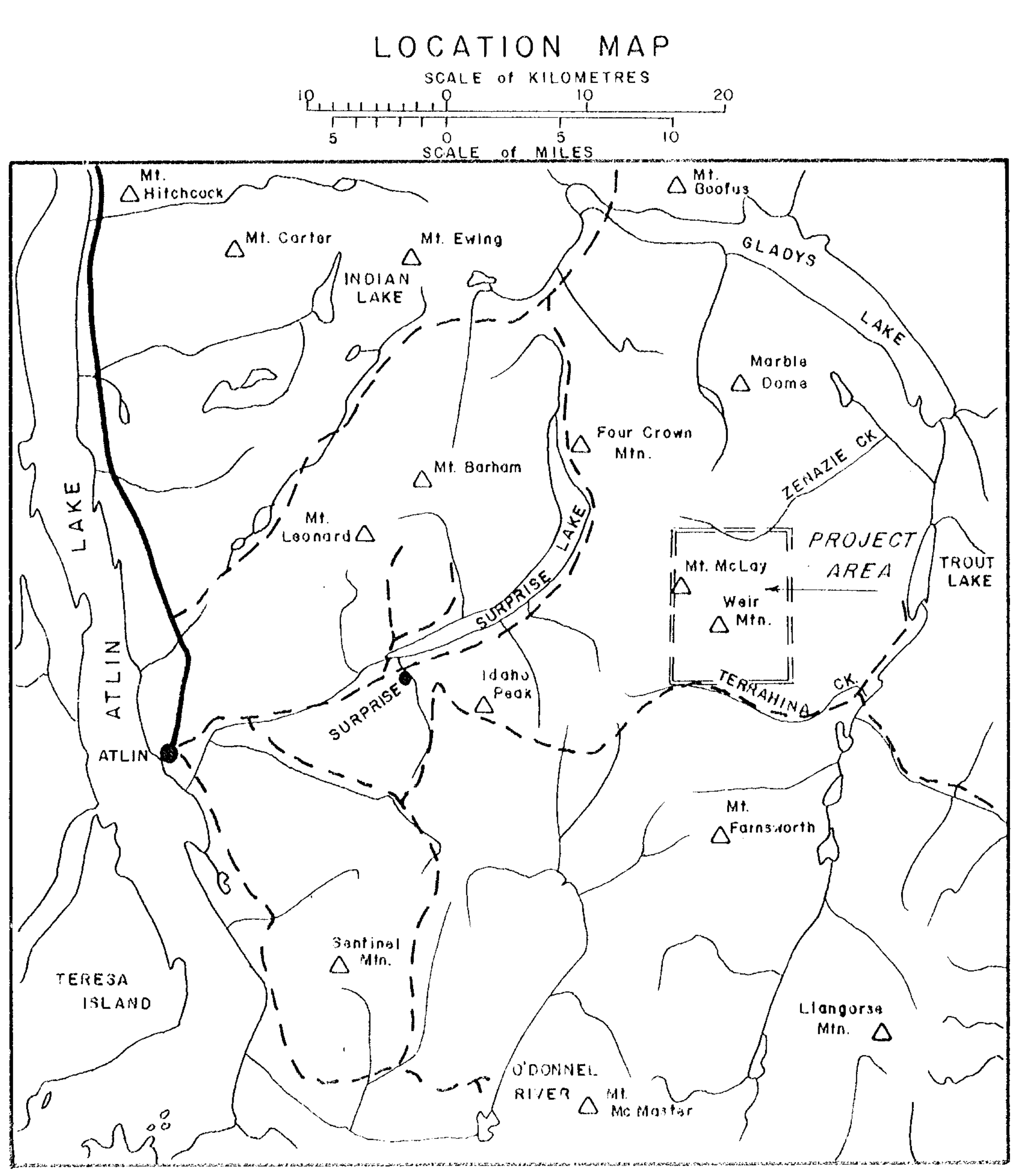
MATTAGAMI LAKE EXPLORATION LIMITED.
WESTERN FIELD OFFICE
EDMONTON, ALBERTA

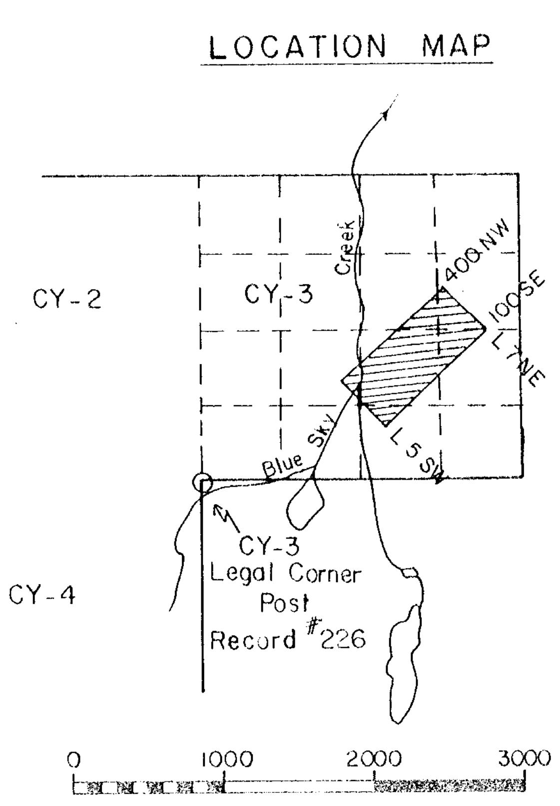
WEIR MOUNTAIN PROJECT
BLUE SKY GRID (NEW GRID) CY-3 CLAIM
MAP 20
EM-16R RESISTIVITY SURVEY

OPERATOR: L. ALTERTON.
DRAWN BY: D.R.BULL.
DATE: AUGUST 1980
DATE: AUGUST 1980

SCALE OF METRES
0 100 200 metres







LEGEND

UNITS : GAMMAS

MAG. CONTOUR: 500

EM-31 CONDUCTOR: — — — —

MATTAGAMI LAKE EXPLORATION LIMITED.

WESTERN FIELD OFFICE

EDMONTON, ALBERTA

WEIR MOUNTAIN PROJECT

BLUE SKY GRID (NEW GRID) CY-3 CLAIM

MAP 21

MAGNETOMETER SURVEY

OPERATOR : L. ALTERTON. DRAWN BY: D.R. BULL.

DATE: JULY 1980 DATE: AUGUST 1980

SCALE OF METRES 0 100 200 metres

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
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Part 3 of 5