



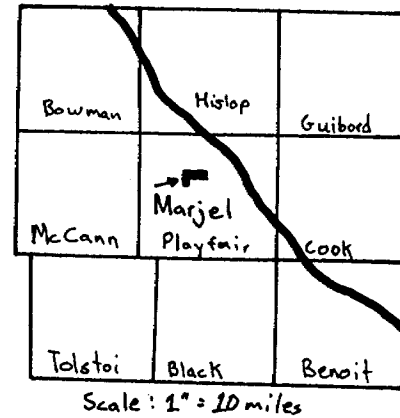
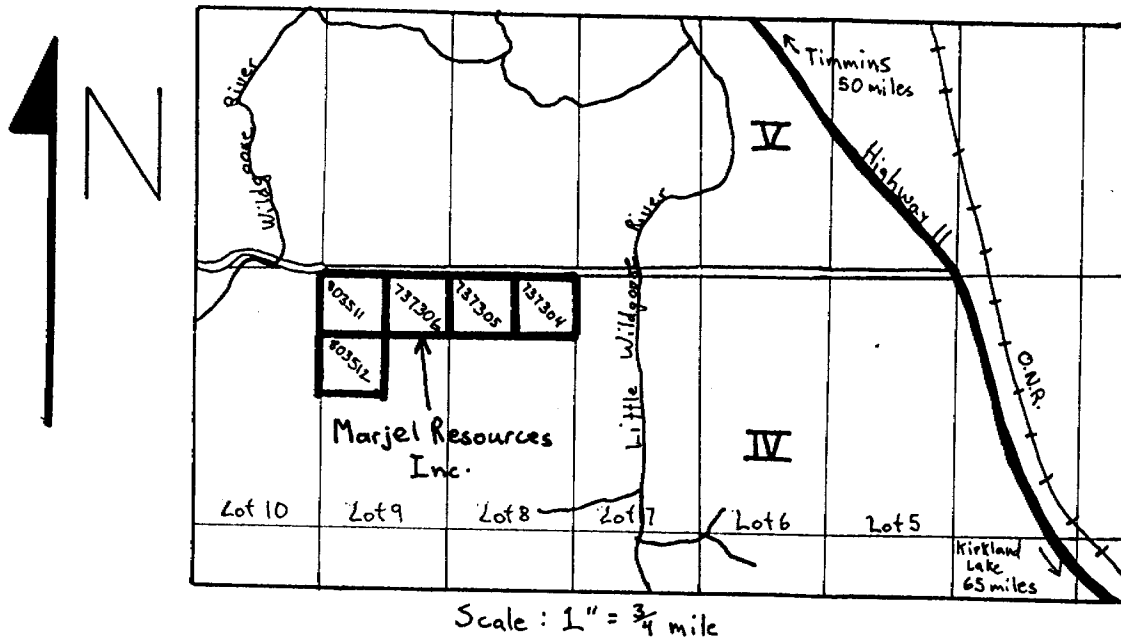
42A0BNW0216 2.8135 PLAYFAIR

010

MARJEL RESOURCES INC.  
Exploration Activities  
on the  
Playfair Township  
Property  
May 15, 1985

RECEIVED  
MAY 22 1985  
MINING LANDS SECTION

Eduard Ludwig  
Geologist  
R.R.#2  
Red Deer Lake Road North  
Wahnapitae, Ontario  
POM 3CO



Marjel Resources Inc.  
 Location of the Playfair  
 Township Property  
 District of Cochrane  
 September 1984  
 Larder Lake Mining Division  
 Figure 1

LOCATION AND ACCESS

The three claim property is located in Playfair Township encompassing portions of lot 8 and 9 of concession IV, in the District of Cochrane, the Larder Lake Mining Division.

An all weather road, leads to the property and forms its northern boundary. Highway 11 is three miles east of the property, with the town of Ramore, Ontario situated 4 miles north along highway 11 (Fig. 1).

Hydro electricity passes along the northern boundary of the property paralleling the road.

TOPOGRAPHY

Areas around the property are largely made up of flat-lying farm land. The property is bordered by the Little Wild Goose River on the east and the Wild Goose River on the west. Swamps are located in the vicinity of these two rivers.

Overburden cover is extensive.

PROPERTY OWNERSHIP, CLAIM LIST, ASSESSMENT STATUS

At this date, the following claims are held by Marjel Resources Incorporated, Suite 402- 27 Queen Street East, Toronto, Ontario, M5C 2M6.

Claim List:	Claim No.	In good standing to:
	L-737304-306	March 27, 1985

### PROPERTY GEOLOGY

Poor outcrop exposures make it difficult to determine underlying lithologies but, together with recent airborne geophysics (O.G.S. 1984) an interpretation can be made.

A large gabbroic stock lying 0.25 mile south suggests a source of gabbroic intrusions which underlie most of the property. Gabbro forms a fault contact with andesites trending north, dipping 80 degrees east. Gold mineralization is hosted by a silicified section of fault breccia, gouge, and mylonitic material within the fault contact. Andesites are highly sheared, trend north, and show varying degrees of brecciation and silicification. Shear fractures trend north whereas extension fractures trend east indicating movement in a north-south direction.

Alteration is limited to silicification in the fault zone and minor carbonatization and silicification in the wall rocks.

### GEOPHYSICS

The entire 3-clim group had grid coverage with lines at 300-foot centres and stations set at 100-foot intervals.

A Geonics EM-16 was the survey instrument, utilizing the frequency from Annapolis, Maryland, U.S.A. (21.4 kHz). The resolution of this instrument is reported at - 1 percent (tangent of tilt angle).

Date of ground work was on March 1, 1985.

Concession road IV of Playfair Township acts as the tie in point for the baseline being easily identified on airphotographs.

INTERPETATION - Map 1

Only one weak conductor crossed the property, traversing all four grid lines. It trends, on average, N 15 degrees W and probably dips steeply north or vertically. The strength of this conductor is indicative of a wet shear zone, which may or maynot be mineralized.

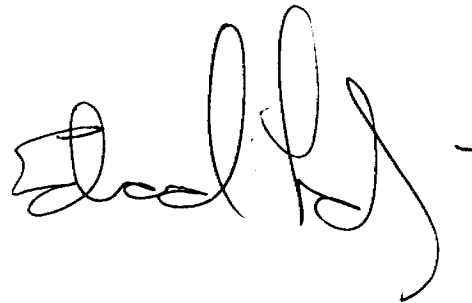
CONCLUSION

As a follow-up, soil samples should be collected over the conductor, testing the "B" horizon for possible gold anomalies, indicative of bedrock mineralization.

CERTIFICATE

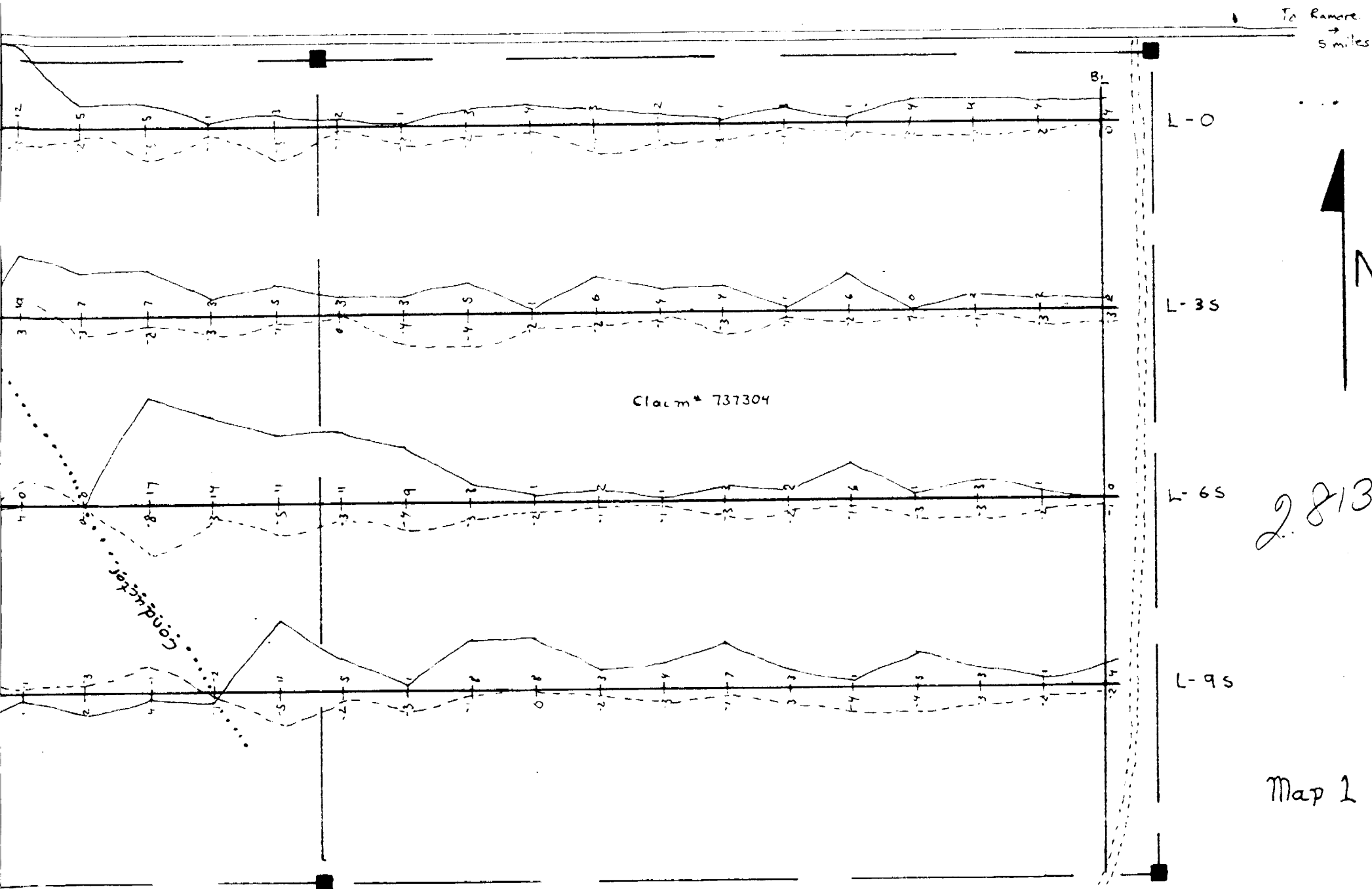
I, Eduard Ludwig certify that I am a consulting geologist, residing at R.R.#2 Red Deer Lake Road North, Wahnapiatae, Ontario, and that I have been practising my profession since 1976.

I am a graduate of both, Sir Sanford Fleming College and Laurentian University in Sudbury, obtaining both a technician's diploma and an HSc. in geology.

A handwritten signature in cursive script, appearing to read 'Eduard Ludwig', with a horizontal line extending to the right from the end of the signature.

Eduard Ludwig

May15, 1985

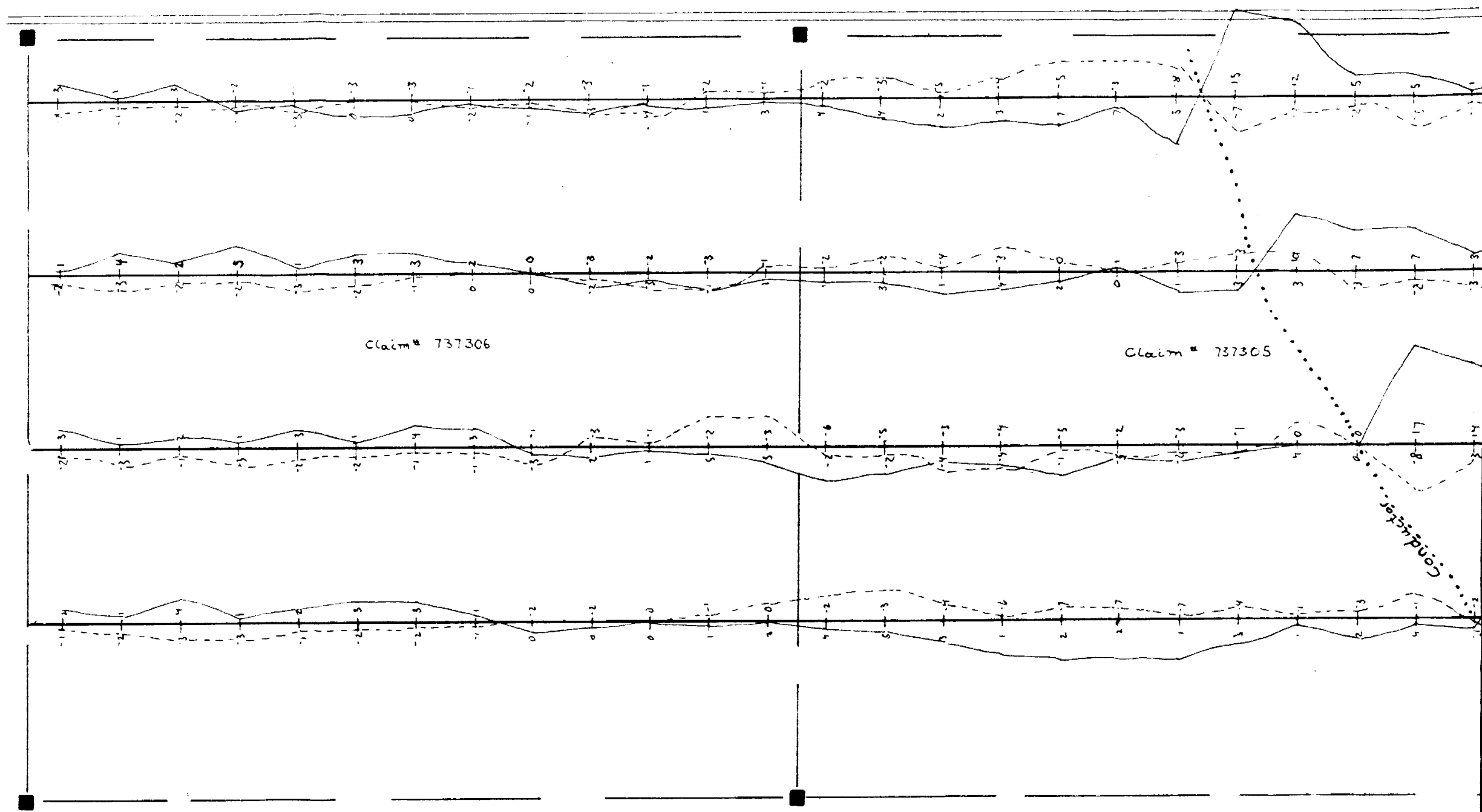


28135

Map 1

+ Solid Line - In Phase  
 - Dashed Line - Quadrature  
 Profile Scale: 1" = 20%  
 Readings Facing West

Marjel Resources Inc.  
 VLF Survey  
 Playfair Township  
 1" = 200'  
 May 15, 1985  
 E. Ludwig



Claim # 737306

Claim # 737305

Göddäktar



Claim Post  
 Bush Fract  
 Fixed Road







**GEOPHYSICAL TECHNICAL DATA**

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations \_\_\_\_\_ Number of Readings \_\_\_\_\_

Station interval \_\_\_\_\_ Line spacing \_\_\_\_\_

Profile scale \_\_\_\_\_

Contour interval \_\_\_\_\_

**MAGNETIC**

Instrument \_\_\_\_\_

Accuracy – Scale constant \_\_\_\_\_

Diurnal correction method \_\_\_\_\_

Base Station check-in interval (hours) \_\_\_\_\_

Base Station location and value \_\_\_\_\_

**ELECTROMAGNETIC**

Instrument Geonics EM-16

Coil configuration \_\_\_\_\_

Coil separation \_\_\_\_\_

Accuracy ± 1% (tangent of tilt Angle)

Method:  Fixed transmitter  Shoot back  In line  Parallel line

Frequency Annapolis, Maryland (21.4 kHz)  
(specify V.L.F. station)

Parameters measured In Phase and Quadrature

**GRAVITY**

Instrument \_\_\_\_\_

Scale constant \_\_\_\_\_

Corrections made \_\_\_\_\_

Base station value and location \_\_\_\_\_

Elevation accuracy \_\_\_\_\_

**INDUCED POLARIZATION RESISTIVITY**

Instrument \_\_\_\_\_

Method  Time Domain  Frequency Domain

Parameters – On time \_\_\_\_\_ Frequency \_\_\_\_\_

– Off time \_\_\_\_\_ Range \_\_\_\_\_

– Delay time \_\_\_\_\_

– Integration time \_\_\_\_\_

Power \_\_\_\_\_

Electrode array \_\_\_\_\_

Electrode spacing \_\_\_\_\_

Type of electrode \_\_\_\_\_

SELF POTENTIAL

Instrument \_\_\_\_\_ Range \_\_\_\_\_

Survey Method \_\_\_\_\_

Corrections made \_\_\_\_\_

RADIOMETRIC

Instrument \_\_\_\_\_

Values measured \_\_\_\_\_

Energy windows (levels) \_\_\_\_\_

Height of instrument \_\_\_\_\_ Background Count \_\_\_\_\_

Size of detector \_\_\_\_\_

Overburden \_\_\_\_\_

(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey \_\_\_\_\_

Instrument \_\_\_\_\_

Accuracy \_\_\_\_\_

Parameters measured \_\_\_\_\_

Additional information (for understanding results) \_\_\_\_\_

AIRBORNE SURVEYS

Type of survey(s) \_\_\_\_\_

Instrument(s) \_\_\_\_\_

(specify for each type of survey)

Accuracy \_\_\_\_\_

(specify for each type of survey)

Aircraft used \_\_\_\_\_

Sensor altitude \_\_\_\_\_

Navigation and flight path recovery method \_\_\_\_\_

Aircraft altitude \_\_\_\_\_ Line Spacing \_\_\_\_\_

Miles flown over total area \_\_\_\_\_ Over claims only \_\_\_\_\_

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Total Number of Samples \_\_\_\_\_

Type of Sample \_\_\_\_\_  
(Nature of Material)

Average Sample Weight \_\_\_\_\_

Method of Collection \_\_\_\_\_  
\_\_\_\_\_

Soil Horizon Sampled \_\_\_\_\_

Horizon Development \_\_\_\_\_

Sample Depth \_\_\_\_\_

Terrain \_\_\_\_\_  
\_\_\_\_\_

Drainage Development \_\_\_\_\_

Estimated Range of Overburden Thickness \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**SAMPLE PREPARATION**  
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

General \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

ANALYTICAL METHODS

Values expressed in: per cent   
p. p. m.   
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, -(circle)

Others \_\_\_\_\_

Field Analysis (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Field Laboratory Analysis

No. (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Commercial Laboratory (\_\_\_\_\_ tests)

Name of Laboratory \_\_\_\_\_

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

General \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_  
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\_\_\_\_\_  
\_\_\_\_\_

REGISTERED

May 13, 1985

Work Report #116

Marjel Resources Inc.  
R.R. #2  
Red Deer Lake N.  
Wahnapiatae, Ontario  
POM 3C0

Dear Sirs:

RE: Mining Claims L 737304 et al in the  
Township of Playfair.

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I have not received the reports and maps (in duplicate)  
for the Geophysical (Electromagnetic) survey on the  
above-mentioned claims.

As the assessment "Report of Work" was recorded by the  
Mining Recorder on March 22, 1985, the 60 day period  
allowed by Section 77 of The Mining Act for the  
submission of the technical reports and maps to this  
office will expire on May 21, 1985.

If the material is not submitted to this office by  
May 23, 1985, I will have no alternative but to instruct  
the Mining Recorder to delete the work credits from the  
claim record sheets.

For further information, please contact  
Mr. Arthur Barr at (416)965-4888.

Yours sincerely,

S.E. Yundt  
Director  
Land Management Branch

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

S. Hurst:sc

cc: Mining Recorder  
Kirkland Lake, Ontario

