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MARJEL RESOURCES INC.

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Exploration Activities

on the

Playfair Township

Property

RECEIVED

MAY 22 1900

May 15, 1985 MININ

MINING LANDS SECTION

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



Scale : 1" = 3 mile



Marjel Resources Inc. Location of the Phyfair 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 consession 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

2

PROPERTY GEOLOGY

Poor outcrop exposures make it difficult to determine underlying lithologies but, together with recent airborne geophysics (0.G.S. 1984) an interpetation 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 trendeast indicationg 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, utillizing the frequency from Annapolis, Maryland, U.S.A. (21.4 kHz). The resoulution 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.

3

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 anomallies, indicative of bedrock mineralization.

4

CERTIFICATE

I, Eduard Ludwig certify that I am a consulting geiologist, residing at R.R.#2 Red Deer Lake Road North, Wahnapitae, 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 HBSc. in geology.

Eduard Ludwig Nay15, 1985





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Geological	·····				1 100	Y 1011	JUY	
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Eduard	udwig			6 03 Day Mo.	85 16 Yr. Day	03 85 Mo. Yr.	3.0	
Name and Address of Author (o	f Geo Technical regiont)							
Credits Requested per Each (Claim in Columns at r	ight	Mining Cl	aims Traversed (I	List in nur	merical sequ	ence)	
Special Provisions	Geophysical	Days per Claim	M Prefix	lining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
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includes line cutting)	- Magnetometer			727205				
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Type of Work Performed	er stripping)	· · ·			LA	DER MINING	LAKE	
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	claims covered by this report of work.			3				
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March 19/85 Edna Lat			3					
Certification Verifying Repo	Certification Verifying Report of Work							
I hereby certify that I have a or witnessed same during and	personal and intimate k d/or after its completion	nowledge of and the ann	f the facts set f nexed report is	forth in the Report true.	of Work an	inexed hereto	; having performed	I the work
Name and Postal Address of Per	son Certifying	01	~	I L' NI	<u> </u>			a
Lanard Ludu	Date Certified Deter Cartified by (Significant)				ae į			
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Ministry of Natural Resources

File_

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) <u>VLF</u>		
Township or Area Play	Fair Twp.	MINING OLAIMS TRAVERSED
Claim Holder(s) Margel Res	ours Inc.	List numerically
27 Queen St	· East Toionton Ont MSCZME	
Survey Company_ Edward	hudnig	L 737306
Author of Report Edward	Ludwig	(prefix) (number)
Address of Author RE+2, Red	Deer Latte Pd. N Ont: Pom'300	
Covering Dates of Survey Mar	ch 1, 1985	L 157307
Total Miles of Line Cut 3		
SPECIAL PROVISIONS	DAVS	Ĩ
CREDITS REQUESTED	Geophysical per claim	
	Electromagnetic40	······
ENTER 40 days (includes line cutting) for first	Magnetometer	tin a construction of the second s
survey.	-Radiometric	
ENTER 20 days for each		······
additional survey using	Geological	L
same grid.	Geochemical	
AIRBORNE CREDITS (Special prov	ision credits do not apply to airborne surveys)	
MagnetometerElectromag	netic Radiometric	
(enter	days per claim)	
DATE: May 15, 1985 SIGN.	ATURE: Show has a	
	Adult of Report of Ageni	
Res. GeolQuali	fications	
Previous Surveys	$\langle \lambda \rangle$	
File No. Type Date	Claim Holder	
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		TOTAL CLAIMS 3

GEOPHYSICAL TECHNICAL DATA

G	<u>GROUND SURVEYS</u> – If more than one survey, specify data for each type of survey	\bullet
N	Number of StationsNumber of Readings	
St	Station interval Line spacing	
Pr	Profile scale	
 С	Contour interval	
-		
MAGNETIC	Instrument	
	Accuracy – Scale constant	
	Diurnal correction method	
	Base Station check-in interval (hours)	
	Base Station location and value	
	_	
2	g Instrument Geomics EM-16	
L I I I I I I I I I I I I I I I I I I I	Coil configuration	
AGI	Coil separation	
MO	& Accuracy I 10 (tangent at tilt Angle)	
H.K.	Method:	Parallel line
LEC	FrequencyHumpoli's May land (21.4 KHz	<u>.</u>)
Ш	Parameters measured In Phase and Quadrature.	
	Instrument	
	Scale constant	
<u>V TI</u>	Corrections made	
AV	A	
Ü	Base station value and location	
	Elevation accuracy	
	Instrument	
	Method 🗔 Time Domain 🔲 Frequency Doma	in
	Parameters – On time Frequency	· · · · · · · · · · · · · · · · · · ·
RESISTIVITY	∠ - Off time Range	
	- Delay time	
	– Integration time	
	Power	
1	Electrode array	
	Electrode spacing	
	Type of electrode	

INDUCED POLARIZATION

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SELF POTENTIAL

Instrument	Range		
Survey Method	y 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 unders	anding results)		
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<u>AIRBORNE ŞURVEYŞ</u>			
Type of survey(s)			
Instrument(s)	(enacify for each type of eupley)		
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, , ,	(specify for each type of survey)		
Aircraft used			
Sensor altitude			
Navigation and flight path recovery	method		
Aircraft altituda	Line Specing		
Miles flown over total area	Ouer claime welve		
miles nown over total area	Over claims only		

Numbers of claims from which samples taken_____

Total Number of Samples						
Type of Sample (Nature of Material) Average Sample Weight	Walues expressed in: per cent p. p. m. p. p. b.					
Method of Collection	Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)					
Soil Horizon Sampled	Others					
Horizon Development	Field Analysis (tests)					
Sample Depth	Extraction Method					
Terrain	Analytical Method Reagents Used					
Drainage Development	Field Laboratory Analysis					
Estimated Range of Overburden Thickness	No. (tests)					
Estimated Range of Overburden Tinekness	Extraction Method					
	Analytical Method					
	Reagents Used					
SAMPLE PREPARATION (Includes drying, screening, crushing, ashing)	Commercial Laboratory (tests)					
Mesh size of fraction used for analysis	Name of Laboratory Extraction Method Analytical Method					
······ , ····						
	Reagents Used					
General	General					

REGISTERED

May 13, 1985

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Work Report #116

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

Dear Sirs:

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

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.

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cc: Mining Recorder Kirkland Lake, Ontario

Mining Lands Section

File No 2.8/35

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TYPE OF SURVEY

GEOLOGICAL

GEOPHYSICAL

____ GEOCHEMICAL

EXPENDITURE

MINING LANDS COMMENTS:

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Signature of Assessor

85-05-23

Date