

32D05NW0865 2.12590 HARKER

010

# RECEIVED

JUN 2 9 1989

MINING LANDS SECTION

### SUMMARY REPORT

### ON THE

### GHOST RIVER PROPERTY

### GARRISON AND HARKER TOWNSHIPS, ONTARIO.

FOR

CHESBAR RESOURCES INC. GRANDAD RESOURCES INC.

NTS 32 D/5,12

Toronto, Ontario June, 1989

X

K.S. Sutherland H. Brodie-Brown



32005NW0865 2.12590 HARKER

### Ø10C

page no. Summary 1 Introduction 2 Location and Access 2 Claim Status 2 Regional Geology 2 Property Geology 5 1988 Geophysical (IP) Survey 5 1989 Programme 7 Conclusions and Recommendations 9 References 10 List of Figures ii List of Appendices iii

TABLE OF CONTENTS

### LIST OF FIGURES

			page	no
Figure 1	•	Property Location Map	3	
Figure 2	2.	Claim map	3	
Figure 3	•	Geological map of Lake Abitibi area	6	
Figure 4	•	Jensen Cation Plot of Rock samples	8	

### LIST OF APPENDICES

- Appendix A List of Claims
- Appendix B Geophysical Compilation Map
- Appendix C Sample Descriptions
- Appendix D Geochemical and Whole Rock Analyses
- Appendix E Sample location maps with gold values plotted in ppb's (2maps at a scale of 1:2,500)
- Appendix F Assay Invoice

### SUMMARY

The Ghost River property consists of 45 contiguous unpatented mining claims located in Garrison and Harker Townships, approximately 45 kilometres east of Matheson, Ontario. A limited prospecting and lithogeochemical sampling programme was carried out over localized areas of the property during the period June 5 to 10, 1989. The objective of the programme was to ground test induced polarization anomalies which had been delineated during an orientation survey carried out in October 1988. In addition, geochemical analysis of rock samples was completed to determine the presence of alteration halos which may indicate the presence of gold mineralization.

The results of the programme were disappointing. The highest gold value returned from the programme was 60 ppb gold from a massive mafic volcanic rock (Fe-tholeiite) located at 5+70E, Most of the rocks that were mapped and sampled were 0+15S. massive to pillowed mafic volcanic rock and minor flow top breccia and tuff. The pillows were relatively undeformed and although the rocks had undergone greenschist facies metamorphism there was no surface evidence of any hydrothermal alteration patterns indicative of gold mineralization. There was no surface expression of the IP anomalies and it may be warranted to drill test these areas. They appeared to all be associated with relative topographic lows which may be the reason for the anomaly or the recessive area may be due to alteration and as such is considered a good target. A compilation of all the data from work carried out on the property to date is recommended before a definitive recommendation for further work on the property can be made.

### INTRODUCTION

The Ghost River property is located in Harker and Garrision Townships, 45 kilometres east of Matheson, Ontario. It is 10.5 kilometres west along the strike from American Barrick's Holt-McDermott mine, which has reserves of 2,067,000 tons grading 0.149 oz gold per ton (proven and probable). The property was staked in 1984 to cover the projected western extension of the gold-bearing Ghostmount zone. A programme of linecutting, geophysical surveying (magnetometer and VLF-EM), geological mapping and humus sampling was carried out over the property in 1984. Nine holes, totalling 5,113 ft were drilled to test geological and geophysical targets on the property from December 1986 to February 1987. The highest gold value intersected during the drill programme was 2 g/tonne over 0.31 m in hole 86-GR-3. No gold-bearing horizon was delineated. An orientation induced polarization (IP) survey was carried out over localized areas of the property during late 1988 to outline areas of disseminated sulphide mineralization associated with potential gold-bearing These areas were ground tested in June 1989, before a horizons. diamond drill programme was recommended.

The property is held 100% in the name of Grandad Resources Incorperated. Chesbar Resources Incorperated has the option to earn an interest in the property by contributing to exploration expenditures.

### LOCATION AND ACCESS

The Ghost River property is located in east central Garrison and west central Harker Townships, approximately 45 kilometres east of the town of Matheson, Ontario (Figure 1). Access to the property is good via Highway 101, then south on the Harker-Holloway Mineral Access road for 3.7 kilometres and west on a logging road for 4 kilometres to the property boundary.

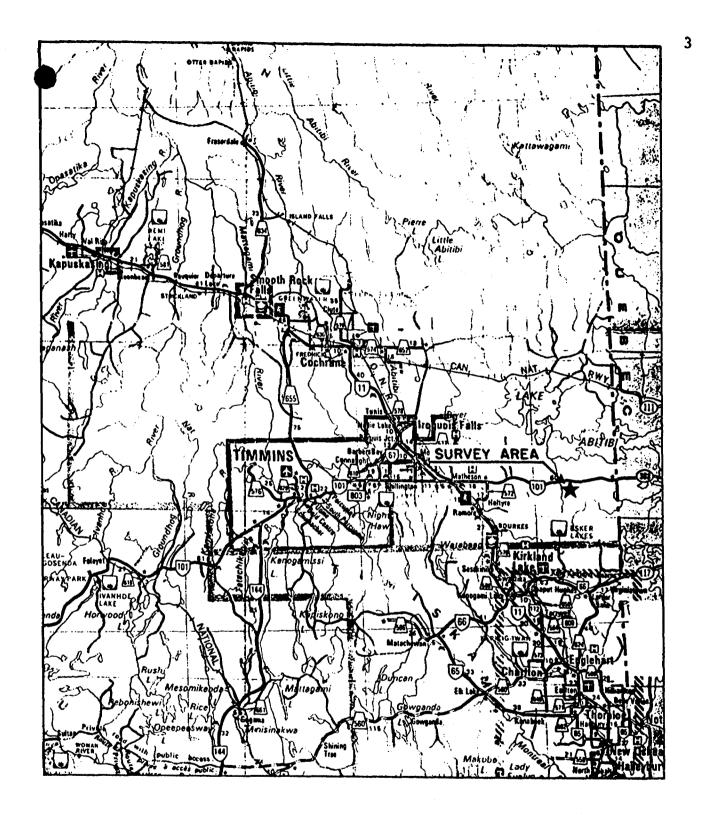
#### CLAIM STATUS

The Ghost River property consists of 45 contiguous unpatented mining claims located in Garrison and Harker Townships, Larder Lake Mining Division (Figure 2). The claims are registerd in the name of Grandad Resources Inc. (100% interest) with Chesbar Resources Inc. holding an option to earn an interest in the property by contributing to exploration expenditures.

A list of the claims is found in Appendix A.

#### REGIONAL GEOLOGY

The Ghost River property lies 5 kilometres south of the south branch of the Dester-Porcupine fault zone within the



LOCATION MAP

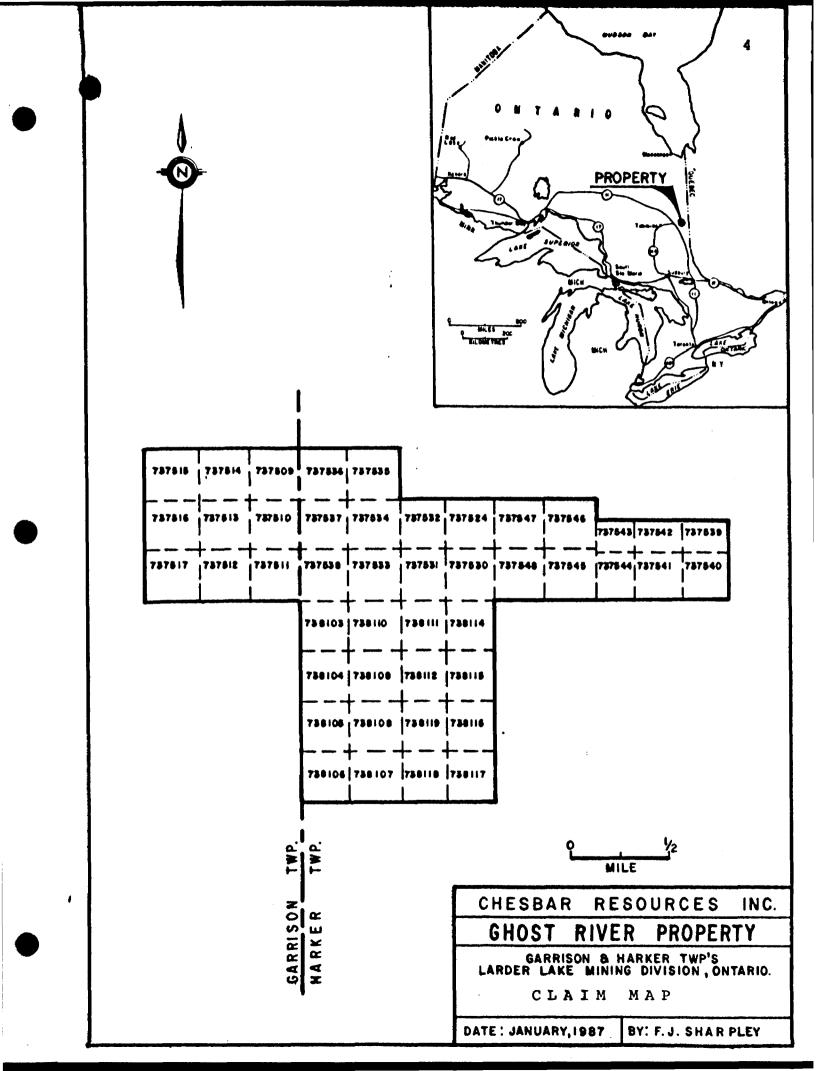
MUSCOCHO EXPLORATION LTD.

**OHOST RIVER PROPERTY** BARKER TOWNSHIP, ONTARIO

IP/ RESISTIVITY SURVEY

Scale : 1 : 1,600,000

Figure 1



tholeiitic iron and magnesium-rich basalt of the Kinojevis Group in the western part of the Abitibi Greenstone Belt (Figure 3). The volcanic rocks strike north-northeast and dip steeply to the south in the property area and are located on the north limb of a major east-trending, east-plunging synclinorium. Interflow sedimentary rocks occur within the volcanic sequence. Felsic intrusive rocks, north-trending Matachawan diabase dykes, minor Keweenawan diabase dykes and splay faults off the Dester-Porcupine fault crosscut the volcanic rocks. The rocks have undergone greenschist facies metamorphism.

The gold deposits in the Pipestone and Dester-Porcupine deformation zone areas have been divided into three structural domains (Wittaker, 1987). There are those related to A) the major east-striking zones, B) east-northeast striking splay faults, such as the Holt-McDermott deposit, and C) northwest to northeast striking faults. Government regional compilations indicate that the Ghost River property lies at the intersection of the Holt-McDermott fault and a northwest striking type C fault which enhances the economic potential of the property.

### PROPERTY GEOLOGY

Property geology consists dominantly of magnesium rich and iron rich tholeiitic basalts which strike 070° and dip approximately 70° south. Minor tuffaceous rocks and interflow sedimentary rocks occur within the volcanic sequence. The volcano-sedimentary package is transected by a steeply south dipping fault striking subparallel to stratigraphy. A number of late diabase dykes also crosscut stratigraphy in a north-south direction.

The volcanic rocks are fine to locally medium grained, weather green-grey and are occur both in pillowed and massive form. They are locally weakly magnetic and contain trace to 2 % disseminated pyrite. Finely laminated mafic tuffs, agglomerates and flow top breccias are also present and contain minor pyrite. Minor cherty horizons occur within the volcanic rocks. The volcanic rocks observed in outcrop are relatively unaltered aside from greenshcist facies metamorphism and are relatively undeformed. Pillowed sequences indicate tops are to the south.

A large diabase dyke striking at 160° and dipping near vertical crosscuts the property in the vicinity of L 13 E.

### **1988 GEOPHYSICAL IP SURVEY**

A induced polarization (IP) survey was carried out on parts of the Ghost River property between October 22 and 26, 1988 by JVX Limited to better define areas related to gold-bearing sulphide mineralization. Approximately 4.4 line kilometres of IP coverage were completed south of 3+00S along lines 2E, 4E and 9E and north of 1+25N along the north-south road between lines 1E and 2E.

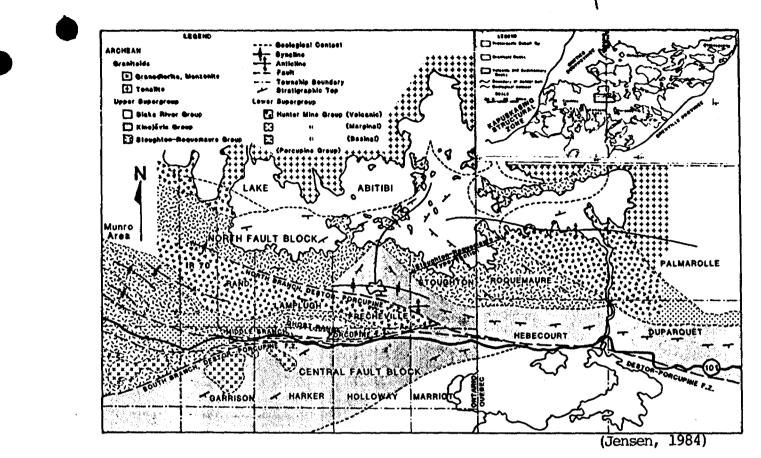


Figure 3 Geological map of the Lake Abitibi area.

The survey defined eight individual line anomalies and one anomalous zone (Appendix B). This zone, located near station 10+50S on lines 2E, 4E and 9E corresponds to a narrow VLF-EM anomaly south of and parallel to the main (drill tested) VLF conductor on the property. The five line anomalies on the lines 2E, 4E and 9E are poorly defined and may in part be due to topographic or overburden effects. Three line anomalies, the best being at 400S (survey, not grid co-ordinate) along the road to the north were better defined.

### 1989 PROGAMME

A localized programme of prospecting and lithogeochemical sampling was carried out on the Ghost River property between June 5 and 10, 1989 (see Appendix C for sample locations and descriptions). The objective of the programme was to ground test anomalies which were delineated during the orientation IP survey carried out in late October, 1988. As the geology map indicated outcrop in some of these areas ground testing was conducted to try and explain or further enhance the anomalies before recommending any drilling.

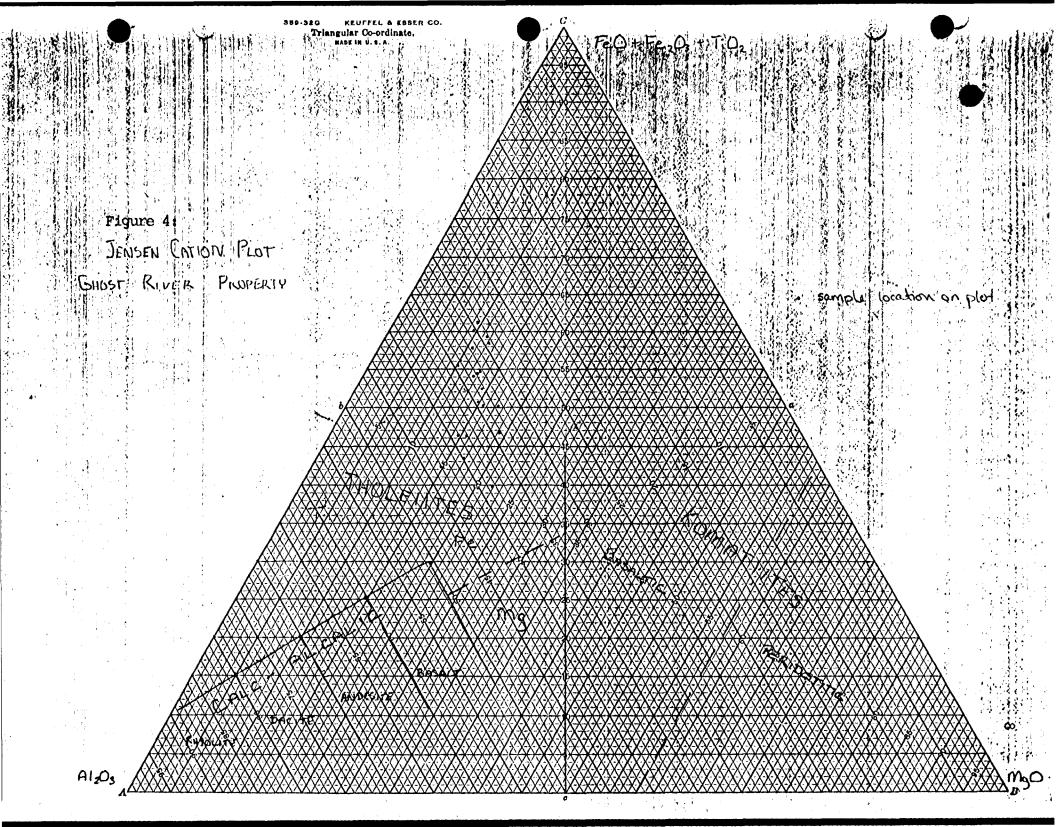
A total of 46 rock samples were collected for analysis. The samples were sent to Asseyer's (Ontario) Ltd. in Toronto and were analysed for 25 elements by ICP (induced coupled plasma spectrometry). Whole rock analysis was conducted on twenty-two of the samples to determine rock geochemistry and possible alteration patterns. The analytical results can be found in Appendix D. The sample locations and gold values were plotted on the geology map at a scale of 1:2,500 and can be found in Appendix E.

Outcrop exposure on the property is moderate to good with localized ridges exposing well defined volcanic assemblages.

The results of the survey were disappointing. The majority of rock outcrop and samples collected were pillowed to massive mafic volcanics. The rocks vary from fine to medium grained and are locally magnetic. Pillowed outcrops are relatively unaltered and undeformed and indicate tops are to the south, which agrees with the regional interpretation. The highest gold value obtained during the sampling programme was 60 ppb gold from a massive magnetic mafic volcanic rock (geochemistry indicates it is an iron-tholeiite) containing 1-2% disseminated pyrite. Although this is above the generally accepted background gold values in mafic volcanic rocks it is not considered worthy of significant follow-up and may be more indicative of the presence of gold mineralization on a more regional scale. Potential gold indicator elements, As, S, W, Sb, Cu, Zn and Mo, and K20 were also consistantly low.

Whole rock analysis indicates that all of the volcanic samples taken fall well within the iron tholeiite field on a Jensen Cation plot (Figure 4). A linear trend towards the magnesium tholeiite field is also observed.

None of the targets from the IP survey were observed on surface. The area of the IP anomaly zone in the vicinity of



lines 2E to 9E, 10+50 S forms a slight topographic depression with no rock exposure. Rock outcrop on either side of the depression is massive and pillowed mafic volcanic rock which shows no evidence of structural deformation or hydrothermal alteration. The stronger anomaly on the road (north zone) corresponds with a creek and beaver pond, another topographic low and no rock exposure.

### CONCLUSIONS AND RECOMMENDATIONS

The geochemical and whole rock results of the sampling programme undertaken on the Ghost River property in June, 1989 were discouraging. Values for gold and gold indicator elements were consistantly low and whole rock analysis showed very little evidence of hydrothermal alteration. IP anomalies, the targeted areas of the programme, were not explained by geology due to overburden coverage and correpsond to topographic depressions.

The rocks on the property are primarily massive and pillowed mafic volcanics with minor flow top breccias, mafic tuffs and agglomerates containing minor cherty horizons and north-southtrending diabase dykes. The volcanic rocks are oriented 070°/70° south. The rocks observed during the limited sampling programme were relatively undeformed and unaltered. All the volcanic rocks, when plotted on a Jensen Cation plot, lie within the irontholeiite field.

As the results of the current programme as well as previous geological mapping and drill programmes on the property have not been encouraging it would appear no further work is recommended for the property at this time. However, due to the proximity to a producing gold mine and the favourable land position based on the regional interpetation of stratigraphy the following suggestions are recommended:

A regional compilation of available recent government data (geophysical, assessment etc.) to determine if the potential for a favourable gold horizon is still present on the property.

If the results from the above are favourable, a detailed structural mapping and prospecting programme over the entire property to delineate potential zones of mineralization and areas to be drill tested.

Should the results of the compilation and detailed mapping and prospecting indicate viable targets a small drill program to test these targets as well as the IP zones may be warranted.

Raspidfully sobmitted, "The Sutherlad SUBraration BRANN

#### REFERENCES

- Jensen, L.S., 1986. Mineralization and Volcanic Stratigraphy in the Western Part of the Abitibi Subprovince in Volcanology and Mineral Deposits, OGS MP 129, pp.69-87.
- Sharpley, F.J., 1984. Report on the Geology and Geochemistry of the Ghost River Property.
- Sharpley, F.J., 1987. Report on Diamond Drilling, Ghost River Property.
- Webster, B., 1988. Report on Ground Geophysical Surveys Conducted on the Ghost River Property, Harker Township, Ontario. JVX Limited.
- Wittaker, P.J., 1986. Gold Metallogenesis Along th e Pipestone and Destor-Porcupne Deformation Zones and Associate Structures, OGS MP 134.

### CERTIFICATE OF QUALIFICATIONS

I, Heather Brodie-Brown of the city of Toronto, Province of Ontario, do hereby certify:

- 1) That I am a geologist and reside at 305 Inglewood Drive, Toronto, Ontario, M4T 1J4.
- 2) That I graduated from McGill University, Montreal, Quebec in 1987 with an honours degree of Bachelor of Science, Geology.
- 3) That I have been practising my profession for a period of two years.
- 4) That I was personally involved in the technical work and writing of this report.

Hadher Chaster - Prour

APPENDIX A

٩.

APPENDIX	Α
----------	---

-							SESSMENT SUM	MADY
N	APPENDIX	A			ti	ABA Ghstr Ghost		MARI
#1 12						SUBIK GUODI	KI VBR	
, I E=	CLAIN #	X#	RECORD	EXPIRES	EXCED	APPROVED	HCR/UNITS	TAX
N	737509	1	• •		0.00	190.00	16.00	
N	737514	1	83/12/29		0.00	190.00	16.00	•
	737515	1	83/12/29		0.00	190.00	16.00	
H	737516	1	83/12/29		0.00	190.00	16.00	
H	737529		83/12/29		0.00	190.00	16.00	-
H	737532		83/12/29		0.00	190.00	16.00	
U.	737547	_	83/12/29		0.00	193.00	16.00	
	738106	1			0.00	190.00	16.00	
- 81 - 81	738107 737510	-	84/02/24		0.00	190.00	16.00	
-11 11	737510	0 0	83/12/29	89/12/29	0.00 0.00	200.00 200.00	16.00 16.00	\$ 0.00 \$ 0.00
14 81	737512	0	83/12/29		0.00	200.00	16.00	
H B	737513	ŏ		89/12/29	0.00	200.00	16.00	
41 1	737517	Ő		89/12/29	0.00	200.00	16.00	•
Ï	737530	Ō		89/12/29	0.00	200.00	16.00	•
l	737531	Ō		89/12/29	0.00	200.00	16.00	
H	737533	0		89/12/29	0.00	200.00	16.00	•
H	737534	0	83/12/29	89/12/29	0.00	200.00	16.00	
N	737535	0	83/12/29	89/12/29	0.00	200.00	16.00	\$ 0.00
H	737536	0	83/12/29	89/12/29	0.00	200.00	16.00	\$ 0.00
ų	737537 737538	Ŏ	83/12/29	89/12/29 89/12/29	0.00	200.00	16.00	\$ 0.00
		0	83/12/29	89/12/29	0.00	200.00		
H H	737539 737540	0		89/12/29	0.00	200.00		
۲ N	737541	0 0		89/12/29 89/12/29	0.00	200.00		
- #	737542	0		89/12/29	0.00	200.00	16.00	
H	737543	0			0.00 0.00	200.00 200.00		•
Ħ	737544	Ő			0.00	200.00	16.00	•
H	737545	Ő			0.00	200.00		•
i	737546	ŏ		89/12/29	0.00	200.00	16.00	•
Ï	737548	õ		89/12/29	0.00	200.00	16.00	
ŧ	738103		84/02/24		0.00	200.00	16.00	
ł	738104	0		90/02/24	0.00	200.00		
ł	738105	Ó		90/02/24	0.00	200.00		
H	738108	0		90/02/24	0.00	200.00		
H	738109	0	84/02/24	90/02/24	0.00	200.00		
l	738110	0		90/02/24	0.00	200.00	16.00	\$ 0.00
N	738111	0		90/02/24	0.00	200.00		•
N	738112	0		90/02/24	0.00	200.00		
H	738114	0		90/02/24	0.00	200.00		
1	738115	0		90/02/24	0.00	200.00		
1	738116	0		90/02/24	0.00	200.00		
推 此	738117 738118	0		90/02/24	0.00	200.00		
•••			84/02/24	90/02/24	0.00	200.00		
1	1281113	Ð	07/02/24	30/02/24	0.00	200.00	16.00	\$ 0.00

45 Claims reported on GHSTR [ GHOST RIVER

# 61

P

]

APPENDIX B

ΥŢ	പല്പാല	Mun				FAX (416)	239-4012	
	JUN 16		Cert	ificate o	f Analys	sis		
 Certificate M	₩o. <u>CH-C</u>	01/01/893	32			Date:J u	ine 13, 1	1989
Received			i	24 Sav	mples of <u>Ro</u>	ock		
Submitted t	y <u>Che</u> s	sbar Reso	ources In	nc/	tt'n: N	ls_KSut	herland	
			W		ANALYSIS			
	68826	68828	68829	68830	68831	68832	68833	68834
%								
SiO₂	47.85	50.24	47.33	48.76	49.15	45.68	44.51	48.19
Al <sub>2</sub> O <sub>3</sub>	12.21	12.45	13.16	12.91	11.03	13.31	15.18	12,55
Fe <sub>2</sub> O <sub>3</sub>	19.65	18.38	17.44	19.03	19.47	17.60	14.95	17.74
CaO	7.38	8.12	8.39	7.92	5.92	11.37	11.94	8.08
MgO	4.11	3.65	5.69	4.74	4.36	5.94	8.59	5.37
Na₂O	4.28	2.93	2.77	2.52	2,52	1.93	1.61	4.10
K₂O	.24	.15	.36	.29	.11	.28	.37	.10
TiO <sub>2</sub>	2.59	2.06	1.77	1.89	2.43	1.96	.86	2.07
MnO	.27	.22	.23	.25	.26	.33	.20	.23
P₂O₅	.47	.52	.67	.32	.49	.39	.01	.29
L.O.I.	.16	.39	2.19	.57	3.01	.89	1.88	1.17
ppm								
Ва	112	150	95	57	91	69	35	22
Cr	94	125	211	164	61	232	422	) 106
Nb	<10	<10	<10	<10	<10	<b>(10</b>	<10/	<10
Sr	107	215	156	94	241	97	162	69
Y	51	58	30	33	54	18	13	37
Zr	155	177	107	154	166 <b>ASSAYERS</b>	68 ONTARIO L	48 ABORATORI	116 ES

ANALYTICAL CHEMISTS . ASSAYING . ICP MULTI-ELEMENT ANALYSIS . REPRESENTATION

L

·

A DIVISION OF ASSAYERS CORPORATION LTD. 33 CHAUNCEY AVENUE, TORONTO, ONTARIO M8Z 2Z2 • TELEPHONE (416) 239-3527 FAX (416) 239-4012

# **Certificate of Analysis**

Certificate I	10. <u>CH-(</u>	01/02/893	32		Date: <u>June 13, 1989</u>				
Received _				2 <u>4</u> Sa	amples of	Rock			
Submitted t	y <u>Che</u> s	sbar Reso	burces II	nc.	Ms K. Sut	therland	······	<u></u>	
			W	HOLE ROC	K ANALYSIS	)			
	68837	68840	68846	68847	68848	68849	68855	68856	
%									
SiO <sub>2</sub>	55.84	48.44	50.58	44.31	44.38	42.84	48.28	46.55	
$AI_2O_3$	10.34	11.39	10.53	13.46	11.99	12.72	12.57	14.34	
Fe <sub>2</sub> O <sub>3</sub>	15.06	19.83	19.55	18.68	21.58	19.05	18.48	16.43	
CaO	7.49	10.51	10.15	9.69	9.01	10.09	8.15	13.11	
MgO	3.07	3.63	3.42	6.43	4.79	5.14	4.68	5.86	
Na <sub>2</sub> O	2.19	2.38	2.05	1.64	2.30	2.82	2.56	1.90	
K₂O	.22	.36	.31	.21	.11	.09	.19	.08	
TiO <sub>2</sub>	1.95	2.66	2.42	2.55	2.68	2.59	1.86	.94	
MnO	.23	.30	.30	.27	.31	.33	.28	.26	
P <sub>2</sub> O <sub>5</sub>	.21	.31	.25	.36	.61	.53	.28	.40	
L.O.I.	2.76	.26	.01	2.25	1.73	3.64	1.58	.10	
ppm									
Ba	46	34	19	83	57	84	37	30	
Cr	40	118	146	121	154	59	160	425	
Nb	<10	<10	<10	<10	<10	<10	<10	<10	
Sr	105	116	104	156	115	163	190	100	
Y	25	24	22	25	26	38	/ /34	/*10	
Zr	105	88	92	91	105	138	118 ABORATORIE	29	
					MOOMTENO				
,				Per .		4r,	/		
					J. van	Engelen	Mgr.		

ANALYTICAL CHEMISTS . ASSAYING . ICP MULTI-ELEMENT ANALYSIS . REPRESENTATION

A DIVISION OF ASSAYERS CORPORATION LTD. 33 CHAUNCEY AVENUE, TORONTO, ONTARIO M8Z 2Z2 • TELEPHONE (416) 239-3527 FAX (416) 239-4012

# **Certificate of Analysis**

Certificate N	ю. <u>СН-01</u>	/03/8932		Date: June 13, 1989						
Received			2	24 Sa	nples ofF	lock				
Submitted b	y <u>Chest</u>	oar Resou	irces Inc	. A	tt'n: Ms	K. Sut	herland			
							97 (			
			W	HOLE ROCH	ANALYSIS					
	68858	68859	68860	68865	68866	68867	68870	68871		
%										
SiO <sub>2</sub>	46.46	48.16	48.37	47.60	48.23	48.75	47.61	47.80		
$AI_2O_3$	13.07	12.48	12.10	13.14	14.36	13.20	14.56	15.23		
Fe <sub>2</sub> O <sub>3</sub>	18.85	14.37	14.14	16.84	14.84	18.59	16.50	15.79		
CaO	10.09	12.29	11.70	10.49	8.65	9.77	10.43	10.70		
MgO	6.81	8.31	9.18	7.43	7.79	4.89	5.44	6.37		
Na <sub>2</sub> O	3.00	2.11	2.18	2.04	3.87	2.79	3.17	2.60		
K₂O	.21	.09	.12	.10	.21	.18	.39	.01		
TiO <sub>2</sub>	1.10	.95	.88	1.12	1.01	1.05	.83	.82		
MnO	.33	.23	.23	.24	.23	.34	.30	.32		
$P_2O_5$	.01	.02	.03	.44	.01	.20	.36	<b>.</b> 18		
L.O.I.	.01	.89	.48	.51	1.73	.01	.40	.01		
ppm										
Ва	41	72	94	29	2278	39	59	25		
Cr	319	287	332	401	296	416	488	462		
Nb	<10	<10	<10	<10	<10	<10	<b>₹</b> 10	<10		
Sr	116	301	302	106	91	114	118	85		
Y	14	<10	<10	19	17	12	19	17		
Zr	40	56	47	63	48	36	55	53		
					ASSAYERS	ONTARIO LI	ABORATORIE	ES		
				Per "		An	< (			
-					J. van	Engelen	Mgr.			

ANALYTICAL CHEMISTS . ASSAYING . ICP MULTI-EVEMENT ANALYSIS . REPRESENTATION

# **ASSAYERS (ONTARIO) LIMITED**

33 CHAUNCEY AVENUE, TORONTO, ONTARIO M8Z 2Z2 • TELEPHONE (416) 239-3527 FAX (416) 239-4012

# **Certificate of Analysis**

eived	<u></u>		46		esof <u> </u>				
mitted by	Chest	oar Resourc	es inc.	<u> </u>	<u>, K. 3</u>	Sutherla			
Sample	No.	Au ppb	Sample	No.	Au pr	ob s	Sample N	۰.	Au ppb
68826		60	68846		12		68866		16
68827		36	68847		21		68867		22
68828		59	68848		36		68868		26
68829		28	68849		17		68869		27
68830		37	68850		19		68870		40
68831		25	68851		25		68871		38
68832		34	68852		11				
68833		15	68853		23				
68834		39	68854		32				
68835		20	68855		28				
68836		16	68856		40				
68837		26	68857		34				
68838		37	68858		25				
68839		40	68859		15				
68840		28	68860		16				
68841		34	68861		18				
68842		35	68862		22				
68843		45	68863		17				
68844		44	68864		25				
68845		18	68865		23				
						5			
							$\bigcap$	4	
					ASS.	AVERS (ONT	TARIO) LIMITE	Ð	
				Per			7/(		
					I. yan	Engele	n Mgr.		

A DIVISION OF ASSAYERS CORPORATION LTD.

33 CHAUNCEY AVENUE, TORONTO, ONTARIO M8Z 2Z2 • TELEPHONE (416) 239-3527 FAX (416) 239-4012

Certificate of Analysis	ficate of Analys	is
-------------------------	------------------	----

						•				
Certi	ificate	No. <u>CH-O'</u>	1/05/893	2		Dat	e: <u>June</u>	13, 198	9	
Sam	ples C	of: <u>Rock</u>						· · · · · · · · · · · · · · · · · · ·		
Subr	nitted	by: <u>Ches</u> l	b <mark>ar R</mark> esou	urces In	C .	Att'	n: <u>Ms K</u>	. Suther	land	
				GEO-S	CAN — RES	ULTS IN PP	°M			
		68826	68827	68828	68829	68830	68831	68832	68833	
				_						
Ag		.1	.2	.3	<.1	.1	<.1	<.1	<.1	
AI	%	• 6.	.4	.9	1.4	1.5	1.6	1.0	1.9	
As		<10	<10	<10	<10	<10	<10	<10	<10	
Bi		<10	<10	<10	<10	<10	<10	<10	<10	
Ca	%	.7	.4	.5	.7	.7	.9	.6	.7	
Cd		10	<10	<10	<10	<10	<10	<10	<10	
Co		28	13	17	24	22	26	17	20	
Cr		62	81	71	76	74	35	62	141	
Cu		151	143	87	83	81	111	107	122	
Fe	%	4.8	2.5	4.0	3.3	4.3	4.9	2.5	2.6	
Mg	%	.4	.4	.6	1.0	.9	1.3	.6	1.3	
Mn		401	285	406	404	465	520	368	317	
Мо		<10	<10	<10	<10	<10	<10	<10	<10	
Ni		37	51	38	41	47	29	44	77	
Ρ	%	.1	.04	.1	.06	.07	.09	.05	.02	
Pb		33	26	31	37	39	45	28	38	
S	%	.6	.3	.1	.1	.09	.7	.05	.04	
Sb		<10	<10	<10	<10	<10	<10	<10	<10	
Sr		<10	10	15	18	<10	25	<10	23	
Th		<10	<10	<10	<10	<10	<10	<10	<10	
U		37	14	28	33	38	51	21	21	
V		112	19	58	94	119	131	58	46	
W		<10	<10	<10	<10	<10	<10	10	)<10	
Zn		33	129	34	40	43	63	25	22	

ASSAYERS ONTARIO LABORATORIES

ingelen

Mgr.

Per . J. van

ANALYTICAL CHEMISTS . ASSAYING . ICP MULTI-ELEMENT ANALYSIS . REPRESENTATION

A DIVISION OF ASSAYERS CORPORATION LTD.

33 CHAUNCEY AVENUE, TORONTO, ONTARIO M8Z 2Z2 • TELEPHONE (416) 239-3527 FAX (416) 239-4012

	•			Certit	icate of	Analysi	S			
Certi	ficate	No	01/06/89	32		Date	e: <u>June</u>	13, 1989	·	
Sam	ples C	of: <u>Rocl</u>	k							
Subr	nitted	by: <u>Che</u> s	sbar Res	ources II	10.	Att'ı	n: <u>Ms K.</u>	Sutherla	and	
<u> </u>				GEO-S	CAN - RES	ULTS IN PP	M			
		68834	68835	68836	68837	68838	68839	68840	68841	
Ag		.2	<.1	<.1	.1	<.1	<.1	<.1	<.1	
AI	%	. 1.1	1.8	.6	1.2	.1	1.4	.9	.7	
As		<10	<10	<10	<10	<10	<10	<10	<10	
Bi		<10	<10	<10	<10	<10	<10	<10	<10	
Ca	%	.6	.3	.5	1.0	.1	.9	.7	.5	
Cd		<10	<10	<10	<10	<10	<10	<10	<10	
Со		20	27	11	16	<10	23	22	15	
Cr		51	78	41	36	67	67	66	77	
Cu		49	95	47	52	70	92	90	91	
Fe	%	3.6	3.8	2.1	3.1	1.9	3.8	3.7	3.1	
Mg	%	.9	1.3	.3	.5	.05	.8	.5	.4	
Mn		378	424	238	387	200	538	453	401	
Мо		<10	<10	<10	<10	<10	<10	<10	<10	
Ni		39	55	26	25	29	43	41	38	
Ρ	%	.08	.07	.04	.08	.01	.07	.08	.04	
Pb		34	43	24	32	13	37	31	25	
S	%	.03	.1	.05	.08	.04	.09	.1	.1	
Sb		<10	<10	<10	<10	<10	<10	<10	<10	
Sr		<10	<10	12	18	<10	10	10	10	
Th		<10	<10	<10	<10	<10	<10	<10	<10	
U		31	31	13	21	<10	33	25	<10	
V		108	97	47	106	<10	104	80	7 44	
W		<10	<10	<10	<10	<10	<10	<10 /	<10	
Zn		29	61	20	35	35	52	37	27	

ASSAYERS ONTARIO LABORATORIES

Per \_ J. yan Engelen Mgr.

ANALYTICAL CHEMISTS . ASSAYING . ICP MULTI-ELEMENT ANALYSIS . REPRESENTATION

A DIVISION OF ASSAYERS CORPORATION LTD.

33 CHAUNCEY AVENUE, TORONTO, ONTARIO M8Z 2Z2 • TELEPHONE (416) 239-3527 FAX (416) 239-4012

### **Certificate of Analysis**

	10. <u>Ch-U</u> Rock	1/07/893	2		Date:	June 1	5, 1989	
		bar Reso	urces In	C .	Att'n:	Ms K.	Sutherla	and
			GEO-SC	AN — RESU	ILTS IN PPM			
	68842	68843	68844	68845	68846	68847	68848	68849
Ag	<.1	<.1	.<.1	<.1	.3	<.1	<.1	<.1
AI %	1.5	1.1	1.5	2.3	1.1	2.1	1.4	1.4
As	<10	<10	<10	<10	<10	<10	<10	<10
Bi	<10	<10	<10	<10	<10	<10	<10	<10
Ca %	.9	. 4	.9	.5	1.0	.5	.6	.8
Cd	<10	<10	<10	10	<10		<10	<10
Co	16	12	14	31	22	28	24	28
Cr	41	51	24	66	90	52	83	36
Cu	60	57	28	115	116	86	121	83
<sup>-</sup> e %	4.8	3.7	4.4	5.3	4.2	3.8	4.3	
/g %	.5	. 4	.7	1.2	.5	1.4	.7	.7
Лn	733	598	776	695	564	530	497	436
No	<10	<10	<10	<10	<10	<10	<10	<10
Ni	24	25	18	56	46	45	51	30
> %	.1	.08	.1	.07	.06	.09	.07	.09
Pb	42	34	41	52	36	44	39	36
S %	.1	.05	.04	. 4	. 1	.1	.1	.3
Sb	<10	<10	<10	<10	<10	<10	<10	<10
Sr	23	11	11	<10	13	12	<10	14
Th	<10	<10	<10	<10	<10	<10	<10	<10
U	38	20	31	53	33	30	35	28
V	18	14	17	161	104	88	124	93
W	<10	<10	<10	<10	<10	<10 🧹	<10	/ <10
Zn	68	52	80	96	47	56 \	48	49

ASSAYERS ONTARIO LABORATORIES

Engelen

J.

vap

Mgr. ANALYTICAL CHEMISTS . ASSAYING . ICP MULTI-ELEMENT ANALYSIS . REPRESENTATION

A DIVISION OF ASSAYERS CORPORATION LTD.

33 CHAUNCEY AVENUE, TORONTO, ONTARIO M8Z 2Z2 • TELEPHONE (416) 239-3527 FAX (416) 239-4012

### **Certificate of Analysis**

				Certini	cate of A	Analysis			
Certif	licate I	No. <u>CH-O</u>	1/08/8932	2	<u></u>	Date:	June_1	3, 1989	
,	les Of						<u></u>		
Subm	nitted I	oy: <u>Ches</u>	bar Resou	urces Ind		Att'n	Ms K. S	Sutherlar	nd
				GEO-SC	LTS IN PPN	R			
		68850	68851	68852	68853	68854	68855	68856	68857
Ag		<.1	.1	.1	.1	<.1	.1	<.1	<.1
AI	%	1.6	1.4	1.3	1.2	1.7	1.7	1.0	.8
As		<10	<10	<10	<10	<10	<10	<10	<10
Bi		<10	<10	<10	<10	<10	<10	<10	<10
Ca	%	.5	.4	.6	.9	.6	.9	.9	1.8
Cd		<10	<10	<10	<10	<10	<10	<10	<10
Со		22	20	22	30	25	23	12	27
Cr		45	55	55	143	74	78	84	94
Cu		64	92	90	210	93	101	84	226
Fe	%	3.8	3.4	3.4	2.8	3.9	4.0	2.2	3.5
Mg	%	.9	.9	.8	.7	1.2	1.0	.3	.5
Mn		467	401	409	435	512	602	296	506
Мо		<10	<10	<10	<10	<10	<10	<10	<10
Ni		33	34	38	87	47	46	44	41
Ρ	%	.07	.04	.07	.02	.07	.06	.02	.02
Pb		39	35	34	33	41	40	25	33
S	%	.03	.1	.1	.1	.09	.06	.04	. 4
Sb		<10	<10	<10	<10	<10	<10	<10	<10
Sr		<10	11	<10	16	<10	<10	14	11
Th		<10	<10	<10	<10	<10	<10	<10	<10
U		32	26	25	20	31	30	12	47
V		94	79	86	54	96	103	36	46
W		<10	<10	<10	<10	<10	<10	<10 /	<10
Zn		60	40	41	21	51	48	17	51

ASSAYERS ONTARIO LABORATORIES

y∕an En∕geleń

Mgr.

Per

J.

ANALYTICAL CHEMISTS . ASSAVING . ICP MULTI-ELEMENT ANALYSIS . REPRESENTATION

A DIVISION OF ASSAYERS CORPORATION LTD.

33 CHAUNCEY AVENUE, TORONTO, ONTARIO M8Z 2Z2 • TELEPHONE (416) 239-3527 FAX (416) 239-4012

# **Certificate of Analysis**

Certificate Samples C	No. <u>CH-</u> Df: <u>Roc</u>		52		Date:	June 1	3, 1989		-	
Submitted	by: <u>Che</u>	sbar Resc	ources Ir	0.0.	Att'n:	Att'n:Ms K. Sutherlan				
GEO-SCAN — RESULTS IN PPM										
	68858	68859	68860	68861	68862	68863	68864	68865		
Ag	<.1	<1.	<1.	<1.	.5	.2	.1	.1		
AI %	1.2	1.5	1.5	1.6	.7	1.8	1.3	1.7		
As	<10	<10	<10	<10	<10	<10	<10	<10		
Bi	<10	<10	<10	<10	<10	<10	<10	<10		
Ca %	.9	.7	.7	.6	.3	1.1	.6	.9		
Cd	<10	<10	<10	<10	<10	<10	<10	<10		
Со	17	21	23	22	20	16	39	21		
Cr	132	54	51	54	70	120	135	128		
Cu	212	176	174	131	179	72	348	147		
Fe %	3.8	2.6	2.9	3.6	3.7	3.0	4.8	3.3		
Mg %	.5	.9	.9	.8	.5	.8	.6	1.1		
Mn	534	250	288	393	412	517	697	449		
Мо	<10	<10	<10	<10	<10	<10	<10	<10		
Ni	50	69	87	37	42	64	94	58		
P %	.02	.03	.03	.03	.03	.02	.02	.03		
Pb	36	33	35	37	28	38	49	37		
S %	.07	.06	.07	.1	.07	.03	.3	.06		
Sb	<10	<10	<10	<10	<10	<10	<10	<10		
Sr	17	56	55	21	<10	20	<10	16		
Th	<10	<10	<10	<10	<10	<10	<10	<10		
U	26	15	21	27	22	18	34	25		
V	62	69	91	90	146	46	49	68		
W	<10	<10	<10	<10	<10	<19	<10	<10		
Zn	23	32	34	39	30	23	31	30		

ASSAYERS ONTARIO LABORATORIES

Per \_

J, van Engelen Mgr. ANALYTICAL CHEMISTS • ASSAYING • ICP MULTI-ELEMENT ANALYSIS • REPRESENTATION

A DIVISION OF ASSAYERS CORPORATION LTD.

33 CHAUNCEY AVENUE, TORONTO, ONTARIO M8Z 2Z2 • TELEPHONE (416) 239-3527 FAX (416) 239-4012

### **Certificate of Analysis**

					•			
Certificate	No	01/10/89	32		Date	:June	13, 1989	
Samples (	Of: <u>Roc</u>	k					-	
	lby: <u>Che</u>	sbar Res	ources In	Att'n	<u>Ms K.</u>	Sutherland		
	<u></u>		GEO-SC	AN - RESL	JLTS IN PP	A		
	68866	68867	68868	68869	68870	68871		
Ag	.1	.1	.1	.2	.3	<.1		
AI %	1.3	.6	.9	.5	.7	1.0		
As	<10	<10	<10	<10	<10	<10		
Bi	<10	<10	<10	<10	<10	<10		
Ca %	.3	.5	.4	.2	.4	.6		
Cd	<10	<10	<10	<10	<10	<10		
Со	20	17	17	14	33	141		
Cr	109	123	83	99	122	106		
Cu	137	184	257	134	235	151	,	
Fe %	2.7	3.3	3.0	2.6	3.5	2.5		
Mg %	1.2	.4	.3	.3	• 4	.2		
Mn	396	466	385	315	428	351		
Мо	<10	<10	<10	<10	<10	<10		
Ni	49	52	42	50	101	61		
P %	.02	.02	.01	.01	.02	.01		
Pb	32	26	26	22	28	26		
S %	.02	.08	.08	.1	.5	.09		
Sb	<10	<10	<10	<10	<10	<10		
Sr	<10	<10	<10	<10	<10	13		
Th	<10	<10	<10	<10	<10	<10		
U	19	20	16	14	19	13		
V	52	41	30	26	29	24		
W	<10	<10	<10	<10	<10	<10		
Zn	36	18	16	12	16	11		
-					ASSA	YERS ONT	ARIO LABORATORIES	

APPENDIX C

APPENDIX C

### ROCK SAMPLE DESCRIPTIONS

SAMPLE	LOCATION	DESCRIPTION
68826	5+70E/0+15S	Fe-tholeiite, magnetic, massive, 1-2% fine grained pyrite.
68827	5+43E/0+12N	Cherty sediment/tuff, aphanitic, weakly laminated, concoidal fracture, 1-2% very fine grained pyrite.
68828	5+83E/0+22N	Fe-tholeiite, magnetic, massive, 1% fine grained, disseminated pyrite.
68829	8+15E/1+05S	Coarse mafic flow (diorite?), fine grained, non-magnetic, 1% py.
68830	8+80E/1+40S	Mafic volcanic, mainly massive with minor pillows, weakly magnetic, 1% fine grained disseminated pyrite.
68831	12+65E/0+25S	Mafic volcanic, fine grained, massive, weakly magnetic, 3-4% finely disseminated pyrite.
68832	2+00E/7+43S	Pillow basalt, non-magnetic, well defined margins, pillow size varies, trace pyrite.
68833	2+00E/8+35S	Pillow basalt, as 68832, rims not quite as well defined.
68834	<b>2+</b> 00E/9+25S	Pillow basalt, pillows less obvious than above.
68835	1+90E/9+65S	Flow top breccia, fragmented pillows and cherty material, non-magnetic, trace to 1% pyrite.
68836	1+90E/9+66S	Cherty inclusion in flow top breccia, no visible sulphide.
68837	9+90E/10+75S	Mafic volcanic, massive, possibly weak pillow structure, 5% white porphyroblasts <2 mm, very weakly magnetic, trace pyrite.
68838	1+89E/11+25S	Cherty intersticial material, near flow top breccia, laminated, conchoidal fracture, no visible sulphide.

	1+89E/11+25S	Mafic volcanic, non-magnetic, locally to 15% chloritic amygdules <2 mm, 2% stretched subrounded quartz fragments <2 cm.
68840	1+91E/11+25S	Mafic volcanic, fine grained, magnetic, locally 2% pyrite.
68841	2+00E/11+25S	Cherty intertitial material, concoidal fracture, banded.
68842	2+00E/11+75S	Agglomerate, cm scale clasts, locally weakly magnetic, trace pyrite.
68843	2+00E/11+75S	Lapilli tuff, fine grained, mm to cm scale lamination of silicic to mafic bands, non-magnetic, no sulphides, minor agglomeritic bands.
68844	2+40E/11+75S	Agglomerate, fine grained, cm scale clasts (coarser than 68842), trace pyrite, non-magnetic.
68845	2+95E/11+25S	Selvage and intersticial material of pillow basalt, quartz rich, non- magnetic, 2-3% pyrite.
68846	2+95E/1+25S	Pillow basalt, very fine grained, trace pyrite.
68847	3+00E/11+30S	Gabbro or coarse grained basalt, massive, non-magnetic, fine to medium grained, equigranular, trace pyrite.
68848	5+00E/10+90S	Mafic volcanic, massive, non-magnetic, trace pyrite.
68849	4+25E/10+90S	Mafic volcanic, massive to weakly pillowed, non-magnetic, 1% py.
68850	4+25E/10+90S	Interflow material, 0.5m transition zone between gabbro and basalt, flow top?
68851	<b>4</b> +08E/9+85S	Interflow breccia, non-magnetic, no visible sulphides.
68852	4+00E/7+75S	Flow top breccia , 2-5 cm volcanic fragments, no visible sulphides.
68853	12+75E/1+50S	Pillow basalt, well defined margins, non-magnetic, trace pyrite.

<b>8</b> 854	12+75E/1+50S	Interflow pillow material, coarse grained, no visible sulphide.
68855	12+50E/1+80S	Pillow basalt, vesicular, tops to south.
68856	12+80E/3+95S	Pillow basalt, non-magnetic, trace pyrite.
68857	13+25E/4+25S	Pillow rim and interstitial material, weakly magnetic, minor quartz, 1% disseminated pyrite.
68858	13+25E/4+25S	Pillow basalt, non-magnetic.
68859	13+23E/4+25S	Diabase dyke, 0.2m from contact with basalt, medium grained, equigranular, no visible sulphide.
68860	13+23E/4+25S	Diabase dyke, as 68859 but 1.5m from contact.
68861	12+80E/5+25S	Flow top breccia, variable fragment size, non magnetic, trace - 1% pyrite.
68862	12+95E/5+30S	Transition zone between breccia and diabase dyke, concoidal fracture, aphanitic, highly silicic, trace pyrite.
68863	<b>9</b> +90E/6+60S	Flow top breccia, 1mm-2cm angular fragments, chloritic.
68864	9+90E/6+60S	Flow top breccia, limonitic, 3% very fine grained pyrite.
68865	10+00E/6+40S	Mafic volcanic, massive (possibly weakly pillowed), non-magnetic, no visible sulphide.
68866	12+00E/4+35S	Mafic volcanic, medium grained, non- magnetic,massive, no visible sulphides.
68867	1+40E/8+90N	Pillowed mafic volcanic, fine grained, non-magnetic, trace pyrite in fractures.
68868	3+27E/8+79N	Pillow selvage, oxidized, fine grained, non-magnetic, 2% pyrite.
68869	3+30E/8+82N	Pillow selvage, non-magnetic 1-2% disseminated pyrite.

970 3+30E/8+82N

Interpillow material, oxidized, 2-3% pyrite both disseminated and in veinlets.

68871 3+30E/8+82N

Pillow basalt, non-magnetic, trace disseminated pyrite.

APPENDIX D

ANALYTICAL CHEMISTS - ASSAYERS - SPECTROSCOPISTS - REPRESENTATIVES

At 95 T0	esbar Resources Inc., tention: Ms K. Sutherla O - 36 Toronto Street, RONTO, Ontario C 2C5	nd,		189 18 Inchargenggyv NNUAL RATE 18	edatore contribution ER 30
FED. LICENCE +	KO. PROV. LICENCE NO.	YOUR ORDER NO.	OUR ORDER NO.	TERMS NET 30 DAYS	SALES REP.
QUANTITY	DES	CRIPTION		UNIT PRICE	AMOUN
46 24 46	Geoscans + Au Whole Rock Analysis Sample Prep Cert. No. CH-O1	June 13/8 <sup>19</sup> Date R Entere Approv Distribu	eri meni KS	\$ 17.50 ne 14/6g20.00 ne 19 3.00 other hag	\$ 805.0 480.0 138.0
		<u> </u>	2004	423.00	\$ 1423.(

	Ministry of Northern Developme and Mines Type of Survey(s) EXPENDITURE Claim Holder(s) GRANDAD RESOL	Report of Wo (Geophysical, G Geochemical an <u>J8908-234</u> (Lithogeoch (RCES <del>ENC</del> L	eological, L d Expenditu emical	- <sup>3</sup>	2D05NW0865 2.125	590 HARKER Hark		Garison Sarison	900
6 KE	Chestar Resources	the Dit.)					T-	685	
	Suite 950, 3 Survey Company CHESBAR RESOL Name and Address of Author (o	6 TORONTO IRCES INC. Geo Technical report) Brodie - Brown			Date of Survey OS OG Day Mo.	391 09	06 89 Mo.   Yr.	15C OC5 Fotel Miles of line	
	Credits Requested per Each C	Claim in Columns at rig	pht	Mining C	laims Traversed (L		erical seque	nce)	
	Special Provisions	Geophysical	Days per Claim	N Prefix	lining Claim Number	Expend. Days Cr.	Mi Prefix	ning Claim Number	Expend. Days Cr.
	For first survey: Enter 40 days. (This	- Electromagnetic		L	737509	10			
	includes line cutting)	Magnetometer		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	737514	10			
	For each additional survey: using the same grid:	- Radiometric		and the second	737515	10			
	Enter 20 days (for each)	NTAKIO" BEOLOGICA	SUBVEY	9.13 <b></b>	737516	10			
		ASSIGNSMENT I	-1LES	1. <del>1</del> . 11	737529	10	and the second		
	Man Days	Geochemical			737532	10			
		Geophylin 1 0 19	Days per Claim		737547	7			
	Complete reverse side and enter total(s) here	Electromagnetic		-	738 106	10		**	
		R E C E V			738107	10			
		- Radiometric			738109	8			
		- Other					teres a		
		Geotogical Geochemical				R E	CEI	VED	
	Airborne Credits		Days per Claim			<u></u> н	25	1989	-
	Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic Magnetometer				MINING	LANDS	SECTION	
	Expenditures (excludes powe	Radiometric er stripping)		1	arent	W.S.F	M -		
	Type of Work Performed Li Huggecc. Nom. (ill Sa Performed on Claim(s)	Sec 77(19 mpling 7 9559	ling			-1989			
	737509, 737529 737532, 737534, Calculation of Expenditure Days	737530, 7375 738117 7381091, 738110	31,		8:50	lan LA			
	Calculation of Expenditure Days Total Expenditures S 1, 423,00	10	Crecits					·····	
	Instructions Total Days Credits may be ap choice. Enter number of days	portioned at the claim ho	bider's main		For Office Use O	inly_		per of mining ered by this vork.	10
	in columns at right.			Recorded		JH 139 as Recorded	Mining Rec	order i. Och M	1~c
	Juy 5 189	K.S. Holder or Agert Si K.S. Herland		95	Hug 9	1989	ant	Pura	<b>`</b>
	Certification Verifying Repo I hereby certify that I have a or witnessed same during and	personal and intimate kno				of Work anne	xed hereto, h	aving performed	the viore
	Name and Postal Address of Pers K. Sytherland	on certifying C/o Chesbar	Resou	irces	Inc.				
	950 - 36 TORC	clo Chesbar NTO ST. TURU	NTO QU	т. Н5С	25 JUL 5	189	Certified b	y (Signature) Sher a c	

LAMPLUGH TWP.

			.•			. /	-		•				,								۱ <u>.</u>	
		1	;			5M L	) J		- 4	м .				3M		·	+	M	·····		I M	
	۲	L .	<u>د</u>	ί L Ι	1096962	L ()	L 1089845		L. 7096	50	0	70957	V 70956	55172	40536	L. 40537	L 40538		L. L 173 9517		. I	
	، كم	632511	525415	525416	1006260		1	1 1			0 709	<u> </u>	$\setminus$ ()	<u>(</u> ) мар	D.	Ø						
			L	L 	1096361	1088844	L 1096965	L   109696   506264	· · ·			. 43931	با 1 (D)		40540	L 40541	40542	LANSAS N		L 11079		
	í.		632513		606/267	<del>806866</del>	506265			10 11-0		43930		0	D .	P	<u> </u>	1-1	-	L 29745	586438 10693	1069
		L. 70977	L 70978			1		<b>-</b> . 		L		L	D 4392	A 15	$\int $	30155		!(P) J	®		3 #0 (P). '	
		10	U 72979	01	086466	586467	825486	525467	525488	52548	9   L \ 	4392		a 43921	a / ""	$\sim$	Ø	- L.	29748	29746	10694	(11053 (D)
	Ň	101979	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1 .0. L	L   .	j L I	L 				 		D (13926	0			L 2375	(12)	) ©		(P) sad	1
	rs pa		988436	586 460	P 586465	1 586468 701	029369	1 529370	529371	1 02937	2   5293   L			51 149	-		9 <sup>C</sup>		L 29749		L 10695	<u>م</u>
							9				· ·		//	· 1	P (	₽ ; <u></u>		\1 1258 └ 1L 39751 ② \	() (g)		(P)	1
	· · · · · ·	586455	596458	6	8048 Bie			- <u>661901</u>	586435	1 52937	9 1 5293.	78   52937 			32729 30	0279_\30		<u> </u>		ON Ö	10695	)/@
	•		<b>[*</b> ]					   	02   52938	     82088	0 - 829 E	77 82033				$\overline{\mathbb{O}}$		30151	(P) 19199 10150 198865	506013	L 11166	
		599455	586457	101	را برا	( <i>i</i>	NO SPEN								<b>*</b>	1 - 1 - 1	30152	D	L. /L.804		エネの	୬∖"
	7	╯┤╾╼╺┥	- <u>२</u> := <u>-</u> ग्र		1 6		ekou Nd	2 564	566 684	567 .				() 14040	`\ 32730 _\@	)	(D)	31	2638/()	- Last	861 /1687 	
					ح ا	Ì					B4568  6	584569 (C		\t	<u> </u>	32637	32640 3	() 2639		88/ (p)3#0		5
		641516	641817	579110 	87¢109 		e 	1684	575 684	 574   61	84573 6	j 384572 je	384671	RY 222- 34849	1 /		P) 1	$\sim$	1771 - 1880		<u></u>	-10345
			641518	Nove	PEN C	Those w	わず		!			[~~IT	4580	(P) /		2641		$-\underline{\psi}_{1}$	1200 (D) =	565534		
			-		   L			7i ii 684	578 684	577 6	84578) G	64579 j	485		[	D (1	2635 1		2728 L	1    53   610804	سمير ]	، مہمر 
			650891			64733	1	1 1 10	Opt of L		<sub> </sub> ī		•,		L 3	2536	D .+		1.547	- 12-6	~+/ \   5 2906	5
		L		ا متواصف منها و	=¦		/		1	583 68	14582	884561	7. '4051 	- EB-	4144.7	U .4		De la conte		8657	I L   612907	L  5;
					1	1			i T			I .	~ 1		· · · · · · · · · · · · · · · · · · ·	h		(D) / 146(	1459	6/080	5   	
	•		756896	- 1 - 622	69		IT_TV	e02 6 6 8		584   68	84585 6	84586			130 11	13 9~ (む)	43 6 430	)     	1 -		598873	
				¦ L	L '   · <b>3</b>	L 	¦∟ (	ir ir	/	==1			╎╷╶┯┛┈┈			~~~ (	AL.	L.11461		698671   i		<u> </u>
<u> </u>	·		765895		64139		1641391 1L )	<u>p</u>  L   <del> </del>     *  oo		1 28		1 99 891	X 0030	093 663098 980668 660		$\lfloor \frac{1}{2} \rfloor$	y   11570 ത		598850 (	598872	C	<u>ل</u> الم
$\geq$		-q		805 105 105				02671 1 16	1389   641 102672   60	<u>-</u>	-	1	1 <u>8</u>   <del>9933</del> 1 (1	175 893374	1 525472 I L 11-				; ۲ او	- 6	L' (L)	
•		765698	1765894	641395			10412	- !!	- IL	1		' L	-5454	400500 6			1		63334		633306	1000
Z						1 <b>-</b> 1 .			579105 5	79095	579094 <u> </u>					525)474 711 847/01		/ •	628520	633340 O	902557	OF
် ပိ	• • • • •	765099	765893			.'				 		1	1	-+		ļ	598854		LOL	802686	L. 7529	
ī		765900	1L 17658921	ň,	I '-	i	-~~.	1 110 0	179097 57 579097 57	r		<u>× 579100</u>		L	;	579585 	1L 	1	628533	୭		2
2			-` _\$ 	·	641404			GRO	· /		7	•  •	i I	ł			15-7	- W 90266	- 5i268i	512658	L-982897 8/2039	1.9026
<.( ر)	• .•					1 - 	i . ۲۰۰۰ ۱	j			738090	1738089   L			579573	1 598856		55090	5 1- 9020951 5 1812651	51265e	<u>512000</u>	1
		737536	7 37935	641416	641415	t	i	\$ <u>\</u> [6	41411		-			Ì	i . I	M ·	0	1 5070	MRO	MAO	MRO	10 512 1 - 882
	2 M					1		641412 L		4 A	738091				760394	}669799  }		00000000000000000000000000000000000000	+ 'l ·u  362618		342613	1-5120
• .				-,			1 737546	<del>137543  <u>7</u>   56   1</del>	37 542			[				]   ·   669798	L	5655	10 512664 510664	L MRO.	A AREA	51286
				V				· · ·				1.55603				[i]]	·			342815	012083 12:363(97	F
			737533   L	-,				j737544 7 ∫	37641 7:			``\   			760396	1 11	669792	1	737603	737805	L 7376	)0 L. \
ı	•	i	1, /	í I 🗍 👘		1	ר ו	!!!	j	i 1  -	735607	735606	735605	L 760967	160397			L 	L	1470	4	<u>`</u> \9197
•		738103	1736HD	738111	7				38280 73	58275	L		1				L 	     56553;	2 737504		<u> </u>	୭∖ઉ
· ·					l, , , , ,	<del> </del>	1		. \  \  \	<u>í</u>		736844	736845	760968	760398	669795	669794	-tr	TEM			1677
			1738109		·)	7380 <u>5</u> 9 L	!	1738266 7:	38281 ( 73	·	L	L .	L	í. r		╘╼╟	4		75 57037	3 5783		<u></u>
L.	E M		i i	1	i i	5	i –	1		i	736848	736847	736846	<sup>⊾</sup> 737900	737281	678900	57837	18 5785	副こう	13139.4	L. 73¦06	L. T. G
		738108	758108	738119		738080	738055-		30202	38277	ī — — —		/,~   L 	┶┒╺╴┲╍╍	Ł.	$\gamma $	Le K	0317 578	378	13138 //	Ð	<u>ب</u>
		-	1	1	F I			i · !"		} i	737975   	757978	737977	50ZI	17 802110		9 3 010	1111111			د.730 ک	
	·	738108	j 738107	1 736116	<u>738  7</u>   L	739078	738050	130200 7	36203 72	16270	' L   	L	L			L // @				KL.7312		
		780147	1	1		Ì	ĺ	1	36284 73	•   38279   1	\ /88399	737979	737978	18	- CLM-	1 11 **	- ett. 1	13	342	0566.7	L.7308	k
•			-   L											-   į '0	© کر ا				.13/343 ().1 ().99	ତା ତ	L. 7310	L.8
		760152	1 760153	760184	780155	738080	738081	738082 7	36083 73	38084	738801	138608	738603	P	462120		ant (12) In (23)			921. 6	10	6
		T 50181	1	1			ו <del>ר</del> !			(1 	l	τ <b>-</b> λ	तिन <b>नन</b> । २				2113 D		·   (	D (54525)	9/	1
				738611	7 38 612			738402 7	36403 73		·····	738605	738604-	- 1-+	_286517[		L 7	6 <mark>1</mark> 5452p3  5	45252 1.77	39 . KR90		+7-
	•	G	м		•.	- 7 <b>N</b>	<b>A</b>	1		91	V.			9	М	•		10 M				IIM

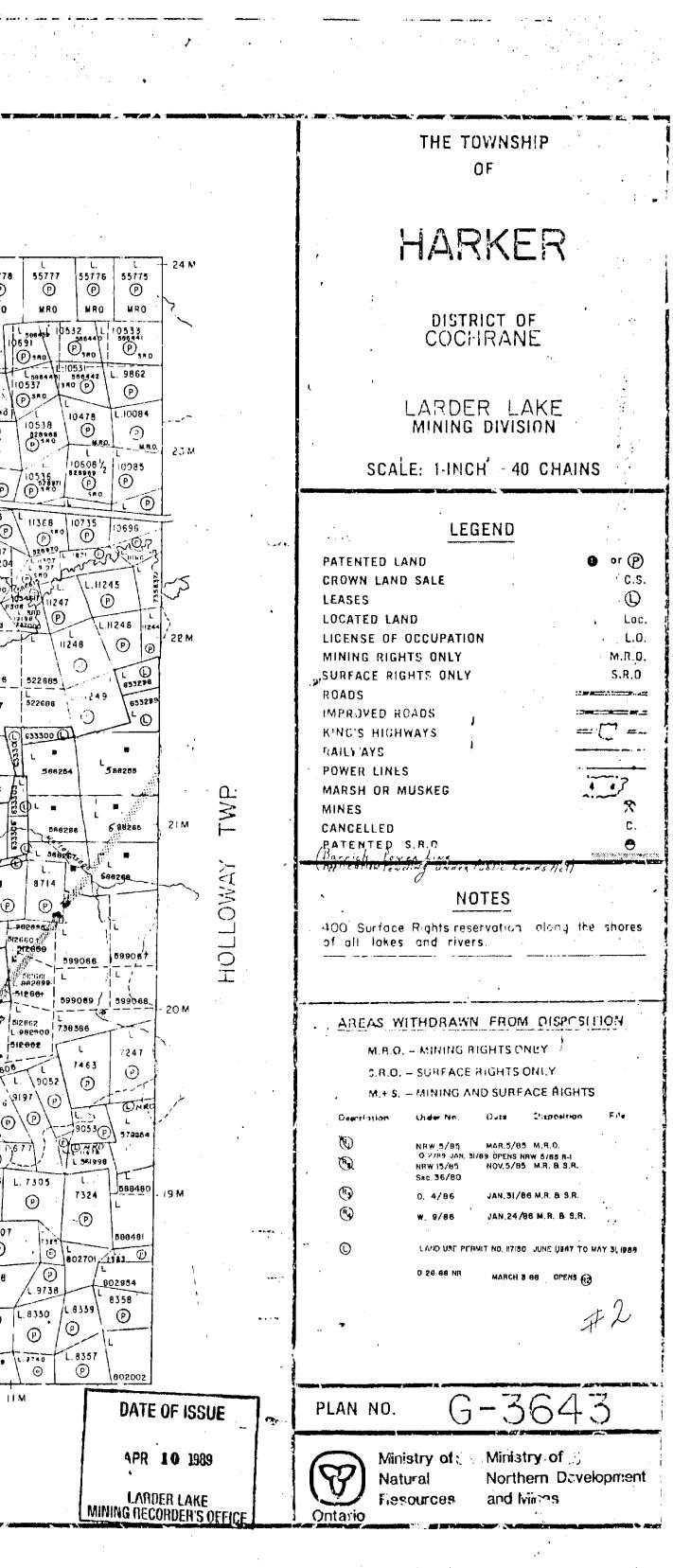
ELLIOTT TWP



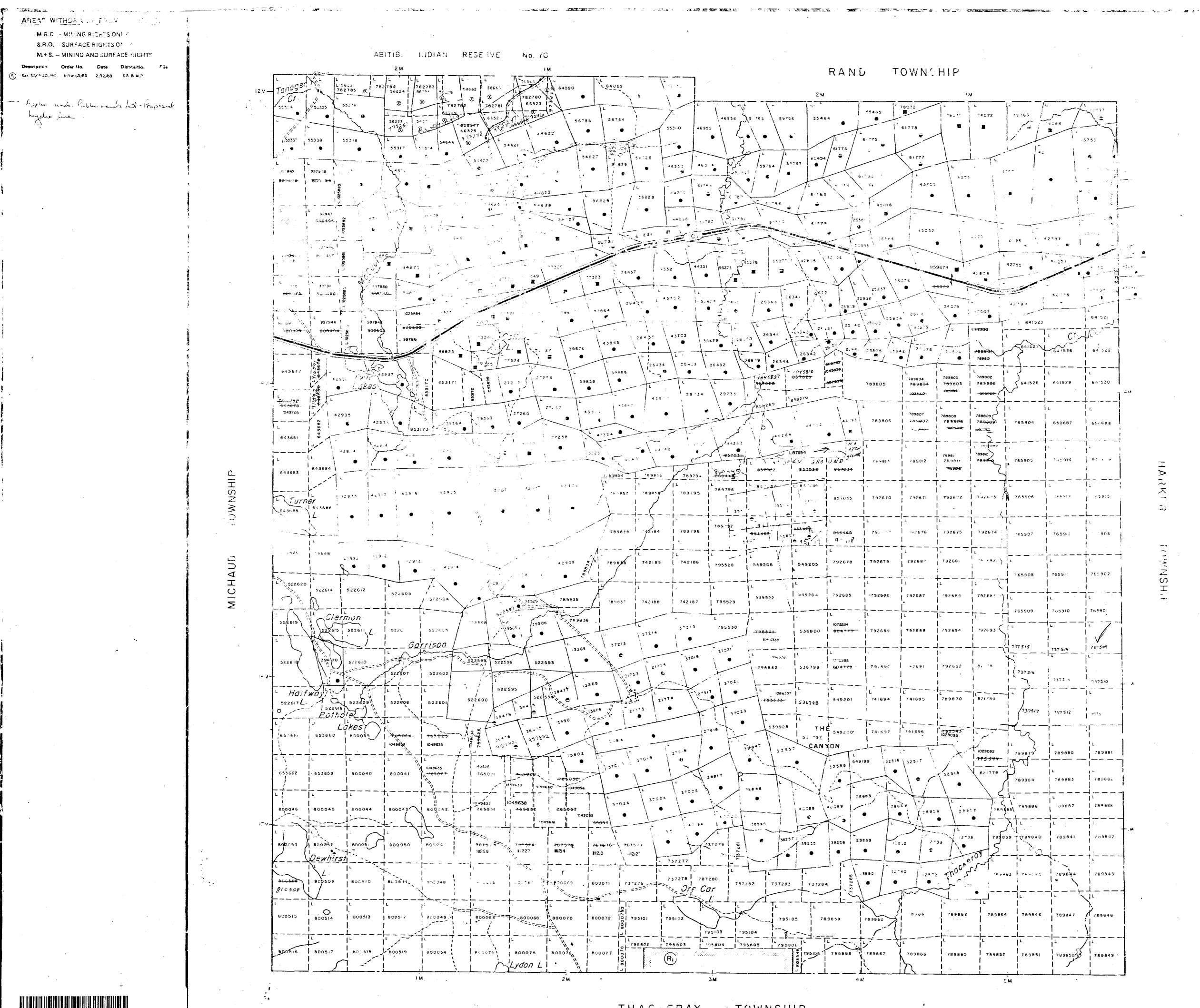
200

( ja A

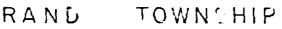
2. 1



1 🙀



210



THACKERAY TOWNSHIP

TO. SEALTHER & 1. ------HIGHWAY AND HOUT е <u>ж</u> OTHER GOADS SENC - The TRACS \_\_\_\_ SUP VEYED LINES TOWNSHIPS, BAGE LINES ETC. LOTS, MINIT J CLA US, PARCELS FTC -UNSURVEYED LINES LOTUNES ----PARCEL BOUNDARK \_\_\_\_ MENING CLAFFS ETC \_\_\_\_ RAILWAY AND RIGHT U. WAY ------UTIL 1+ LINES NC 1 PLANAL GEREAN and the second FLOCOING OR FLOODING RIGHTS SUBDIVE CRECIMPOLITE PLAN RESERVED TRONS URIGINAL SHORELINE M A eC TRIVIES MONUMENT DISPOLITION COLOR -----TYPE OF DCCLINEINT PATENT, SURFACE & 11 MING RIGHTS THE ISOPIACE FROM IS INVER MM ING PROHTS UND 51 4.6.1 LICENCE CH -ROER IN ( RESERVAT 2 CANCELLED SAND & GEAVEL NOTE: MINING RIGHTS IN PARCELS PATENTED PRICE TO MAY 6. 1913 VESTET & ORIGINAL PATTNEE BY THE PUBLIC LANDS ALT RIST 1970, CHAP LIN SEC 63, SUBSEC 1 Metres **Hetres** 41 50 60 \*C **- 5**.- 5 . . . . . Little of entry in the one Change 500 Y \*GO**O** 2001 10**00** 4000 5J00 Fe t Tanana and Tan COALE 1020 00 Application for 5 4 ATS under prover hand Art DATE OF ISSUE NHL 17 1989 LARDER LAKE

 $\mathbf{\nabla}$ 

 $\sim$ 

ス

N N N

I

# TOWNSHIP GARRISON

M.N.R. ADMINISTRATIVE DISTRICT KIRKLAND LAKE MINING DIVISION LARDER LAKE LAND TITLES / REGISTRY DIVISION COCHRANE

Ministry of

Date STEMBER 956

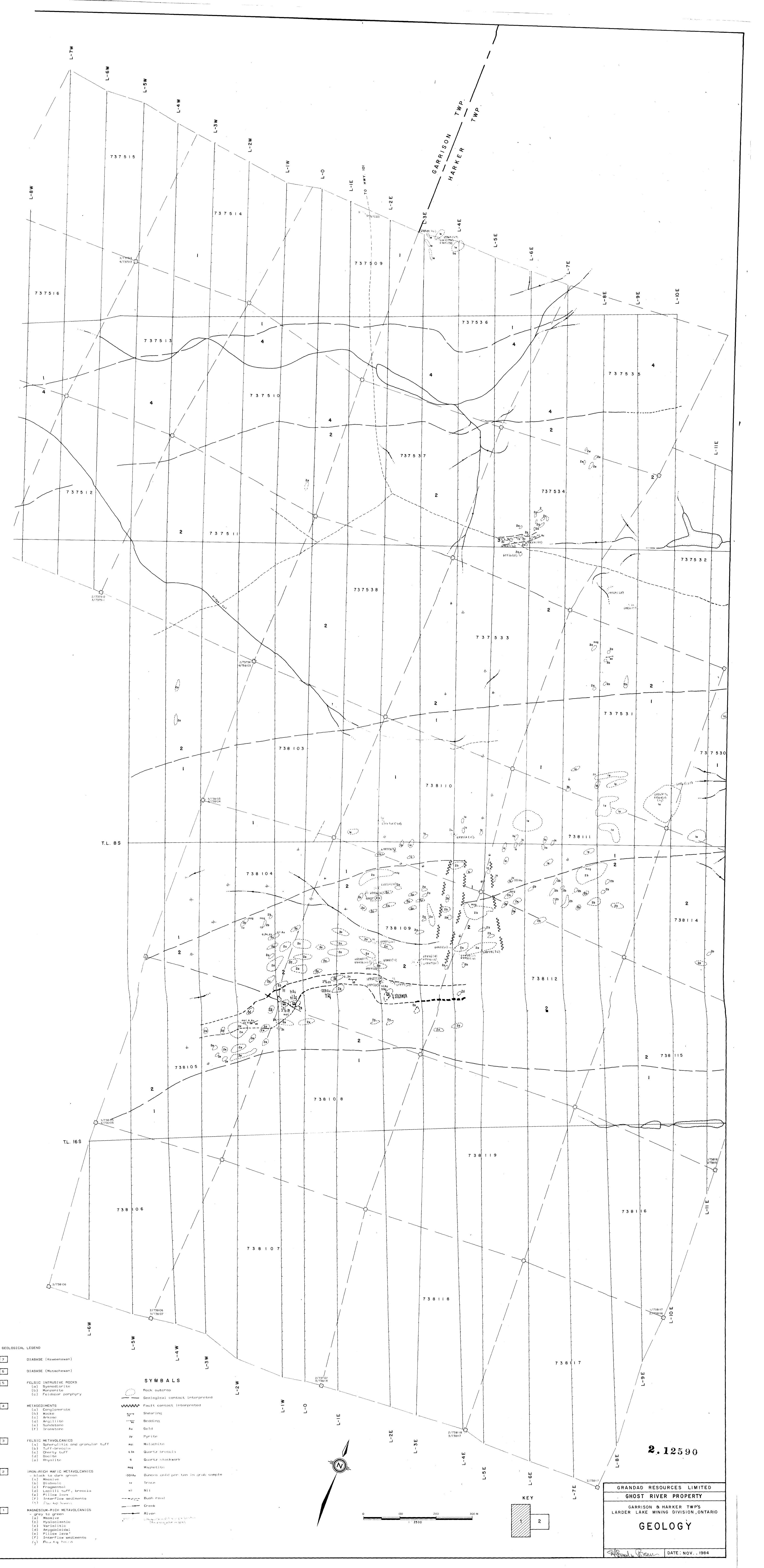
Ontario Ontario

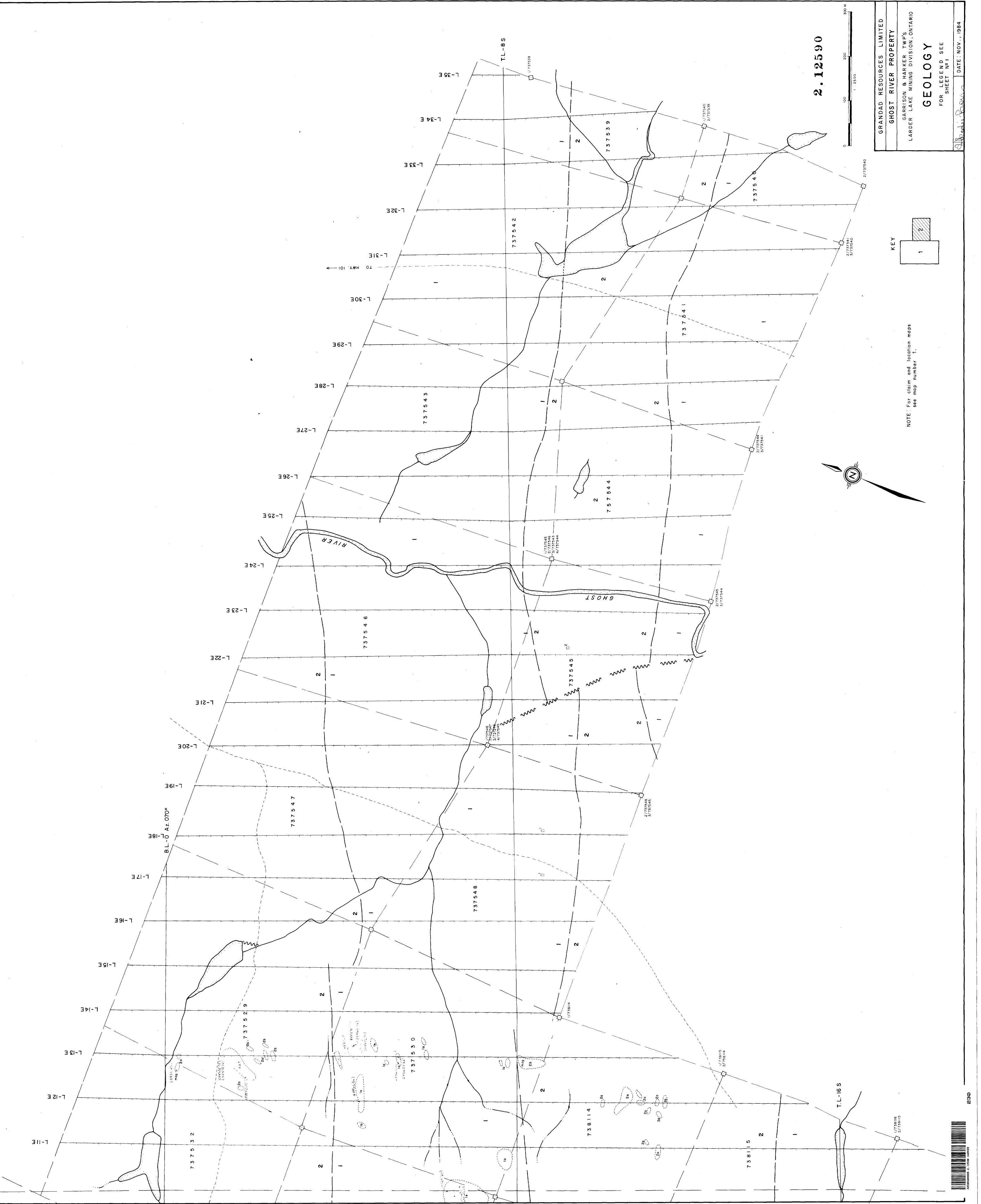
-----

Ministry of Northern Development Resources and Mines

A MOMO

7 \*\*





\_\_\_\_\_ \_\_\_\_\_



