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REPORT ON REVERSE CIRCULATION
OVERBURDEN DRILLING
ON PART OF THE MURPHY HOYLE CLAIM GROUP
PORCUPINE MINING DIVISION

By:

R.B. Durham

Rosario Resources Canada Ltd.
1407 - 7 King Street East, Toronto, Ontario M5C 1A2

December 1981

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MINING LANDS SECTION

INTRODUCTION

Purpose of Program

The work covered in this report was initiated as follow-up to work done previously in Murphy and Hoyle Townships by Rosario Resources Canada Ltd. in 1978 and 1979. The work consisted of reverse circulation drilling and overburden sampling. Bedrock samples were also collected.

Property

The property on which this work was carried out consists of 32 contiguous unpatented claims in Murphy and Hoyle Townships. The Murphy claims cover the N $\frac{1}{2}$ and S $\frac{1}{2}$ Lot 1 Concession III, S $\frac{1}{2}$ Lot 2 concession III and the S $\frac{1}{2}$ of Lot 1 Concession IV. The Hoyle claims cover the N $\frac{1}{2}$ and S $\frac{1}{2}$ Lot 11 Concession III, S $\frac{1}{2}$ Lot 12 Concession III, and the S $\frac{1}{2}$ Lot 12 Concession IV.

The property consists of the following claims:

P	516562 - 516565	incl.	—	✓
	516572 - 516575	"	—	✓
	525270 - 525277	"	—	✓
	525303 - 525306	"		
	540402 - 540405	"		
	546519			
	546522 - 546528	"		

All claims are held by Rosario Resources Canada Ltd.

Access

The property can be reached only via a very wet winter access road, which follows the Whitney - Tisdale Township line and further north the Hoyle - Murphy Township line. This road departs from a gravel road which links Hwy 655 with the old Broulan Reef mine (near Porcupine).

Previous Work

Some geophysics (magnetometer and vertical loop EM) was done over the property by L.P. Industries (2.1853, 2.1702), Jaye Exploration (Murphy Twp.) (63.1664) and INCO (63.1509).

Rosario Resources Canada Ltd. did geophysical surveys over a portion of the claims in 1979 and 1980 and this work was filed for assessment credit (File no. 2.2937 and 2.3170). Rosario Resources Canada Ltd. also filed a limited amount of diamond drilling (and core specimens) for assessment credit in 1980.

DRILLING

Procedure - Nov. 1979

The drilling was done by Bradley Brothers Ltd. using a Longyear 38 drill mounted on a diesel FN 160 Flextrac Nodwell. Also carried on the FN was a three hundred gallon water holding tank, a 125 cfm diesel compressor, a pressure pump, and an 18" cyclone. The drill had a two foot stroke and a hydraulic or manual chuck. Water was hauled to the drill by a second Flextrac Nodwell (a FN 60) which carried a 500 gallon cylindrical tank. This machine also carried the dual tube 2 15/16" drill rods.

Water (or a water/air mix) was pumped down the outside of the inner rod to the face of the tricone button bit where it acted as a lubricant as well as the sample collecting medium. Except in the case of the fine sediment washing away rapidly or the bit blocking (usually in clayey residual bedrock) the water mixed with the overburden strata and returned up the centre of the inner rod. After returning through the drill head, swivel, rubber hose and cyclone the water and sample entered a large (10 - 12 gallon) plastic bucket. The sediment sank to the bottom and the water returned to the 300 gallon storage/supply tank. The lithology being drilled was logged as the sample entered the bucket.

Samples were collected generally at ten foot intervals to the bedrock-overburden interface. Where possible a 2 - 3 foot fresh bedrock sample was collected.

Procedure - May 1979

In May of 1979 two holes were drilled using a system that was originally designed by Alex Gagnon and modified by Dominik Drilling. The system had two definite advantages. The set-up was capable of collecting very large samples doing reverse circulation to the bedrock surface. Upon reaching bedrock the inner string could be retrieved and normal BQ coring done for some distance.

The system was composed of 2 Bombardier dual track MM 70 muskeg tractors, an Inspiration #3 skid mounted diamond drill, cyclone, supply pump, hose, pressure pump and NW and AW casing. The system employed two strings of casing, the outer NW casing being the driven string (at the head). The NW casing was fitted with a casing shoe while the inner (AW) casing was fitted with a 2 15/16" steel tricone bit. The adapter which locked the two strings together was designed such that the face of the tricone bit protruded 1/2" past the crown of the casing shoe.

Water was pumped down between the two casings and between the casing shoe and tricone bit where it lubricated the bits and mixed with the overburden strata and then returned up the inside of the AW casing through the head,

specially designed swivel, a heavy rubber hose, a cyclone and into a large (10 - 12 gallon) plastic pail where the sample then settled out. In this instance the return flow of water was collected in a 200 gallon holding tank.

Program

Holes MHO-32 and 33 were drilled in May 1979 as part of a larger program carried out by Rosario Resources in the area. These two holes were drilled mainly to test the bedrock type, but also to test for anomalous concentrations of gold in the till sections.

Holes MHO-47,48,49,50,52,55,68,73,76,77 and 78 were also part of a larger project in the area. These holes were located in order to test areas near various geophysical anomalies.

A continuous log of the overburden strata was kept by the geologist as each hole was being drilled. These logs include lithologies, sample numbers and footages, amount of return, times, locations, bedrock types, etc. The drill logs with the corresponding results accompany this report, (see Appendix 3).

All samples for which heavy media concentrate results are shown were processed by Overburden Drilling Management in Leitrim Ontario, in the manner described in Appendix 4.

RESULTS

The most significant results were obtained in MHO-33 which encountered anomalous amounts of gold in three continuous samples. Anomalous arsenic values were also obtained, which gives the gold anomaly additional merit. Subsequent diamond drilling in this vicinity and additional overburden sampling has failed to define the bedrock source of this gold anomaly. The heavy media concentrate portion of one sample in MHO-68 returned 1380 ppb which is anomalous but does not appear to warrant follow up. One sample in each of MHO-76 and MHO-77 returned anomalous amounts of gold in the heavy media concentrate portions, but are not considered to be of particular interest.

CONCLUSION

In light of the results obtained further till sampling does not appear to be warranted.

Respectfully submitted,


Bruce Durham

Project Geologist
Rosario Resources Canada Ltd.



Ministry of
Natural
Resources

Diamond Drilling Log

Fill in on
every page

Hole No. MHO-33	Page No. 1
Claim No. P 516575	

Drilling Company DOMINIK	Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar -90	Location of hole in relation to a fixed point on the claim. L 8 + 00W 52 + 80N (BL)	Map Reference No.	Location (Twp., Lot, Con. or Lat. and Long.) Lot 1, Con. III, S½, Murphy Twp.
Date Hole Started May 15, 1979	Date Completed May 15, 1979	Date Logged May 15/79	Logged by Bruce Durham	Ft.		Property Name Grid C	
Exploration Co., Owner or Optionee ROSARIO RESOURCES CANADA LTD.		Date Submitted	Submitted by (Signature) <i>Bruce Durham</i>	Ft.			
				Ft.			

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	ASSAYS + Cu/Zn		
From	To						From	To		Au ppb	As ppm	mm
0	8		Humus + brown clay			8793	0	15	15			
8	20		Grey clay			8794	15	25	10			
20	22		Well washed gravel			8795	25	35	10			
22	37		Grey clay to silty clay			8796	35	45	10	41	37	200/ 170
37	40		Fine well sorted gravel (well rounded pebbles)			8797	45	55	10	980	180	1120/ 850
40	45		Sandy gravelly till (minor clay)									
45	52		Fine gravelly till ½" py chip at 53'			8798	55	60	10	12000	560	390/ 210
52	54		Gravelly clayey till									
54	58		Clayey till			8799	60	70	10	1800	1020	500/ 500
58	70	Residual bedrock	Bright orange mud Chips are not frequent Chips include Cb, sericite green chlorite Qtz + py			chips 8870	66	70	4			



THE MINING ACT - MINISTRY OF NATURAL RESOURCES
DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO. M10-47 PAGE NO. 1

DRILLING COMPANY BRADLEY BROS.		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE 84	DIP OF HOLE AT collar -90	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM L0 53 + 50N	MAP REFERENCE NO.	CLAIM NO. P 516575
DATE HOLE STARTED November 19/79	DATE COMPLETED November 19/79	DATE LOGGED Nov. 19/79	LOGGED BY Bruce Durham		ft		LOCATION (Tp., Lot, Con. OR Lot. and Long.) S½, Lot 1, Con. III, Murphy Twp.	PROPERTY NAME Grid C
EXPLORATION CO., OWNER OR OPTIONEE ROSARIO RESOURCES CANADA LTD.		DATE SUBMITTED	SUBMITTED BY (Signature) <i>Bruce Durham</i>		ft			
					ft			

FOOTAGE FROM	TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS + Zn As				
							FROM	TO		Au ppb	Cu ppm	ppm	ppb	
0	4	No return												
4	8		Brown clay											
8	37		Grey varved clay											
37	46		Sandy gravelly clay till											
46	50		Clayey sandy gravelly till 49 - 50 mafic (gabbroic?) boulder			9755	36	50	14	48	73	80	79	
50	60		Sandy clayey till			9756	50	60	10	17	180	66	170	
60	70		Sandy clayey till plus a few cobbles argillitic boulder 68 - 68.5			9757	60	70	10	23	180	100	160	
70	78		Clay till qtz-carb py chip at 72' Sericitic chips at 76'			9758	70	78	8	960	220	94	180	
78	80	Green residual bedrock				9759*	78	84	6	3				
80	84	Sericitic schist	Much barren white qtz + some sericitic chips & yellow brown + green residual bedrock.											

* bedrock sample



THE MINING ACT - MINISTRY OF NATURAL RESOURCES
DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO. MHO-49
PAGE NO. 1
CLAIM NO. P. 516565

DRILLING COMPANY BRADLEY BROS.		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE 42	DIP OF HOLE AT COLLAR -90	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM L 0 + 00 69 + 00N	MAP REFERENCE NO.
DATE HOLE STARTED November 20/79	DATE COMPLETED November 20/79	DATE LOGGED Nov. 20/79	LOGGED BY B. Durham		ft		LOCATION (Tp., Lot, Con. OR Lot. and Long.) S½, lot 1, Con. III, Murphy Twp.
EXPLORATION CO., OWNER OR OPTIONEE ROSARIO RESOURCES CANADA LTD.		DATE SUBMITTED	SUBMITTED BY (Signature) <i>Bruce Durham</i>		ft		PROPERTY NAME Grid C
					ft		

FOOTAGE		ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS + Zn As		
FROM	TO						FROM	TO		Au ppb	Cu ppm	ppm
0	2	No return										
2	20		Grey clay									
20	28		Gravel (possibly till). A few qtz chips.									
28	30		Gneissic boulder.			9766	20	30	10	69	120	90 50
30	37		Gravelly till + minor sand & clay			9767	30	40	10	11	150	130 70
37	42	Carb rock?	Very hard dark brown to slightly olive coloured massive to weakly schistose rock - a variety of carb rock? 1% py. No qtz.			9768	40	42	2			



THE MINING ACT - MINISTRY OF NATURAL RESOURCES
DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE
HOLE NO. MHO-50 PAGE NO. 1

DRILLING COMPANY BRADLEY BROS.		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE 77	DIP OF HOLE AT collar -90	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM L 16W 52 + 80N	MAP REFERENCE NO.	CLAIM NO. P 516574
DATE HOLE STARTED November 20/79	DATE COMPLETED November 21/79	DATE LOGGED Nov. 20-21/79	LOGGED BY B. Durham		ft		LOCATION (Tp., Lot, Con. OR Lot. and Long.) N ¹ / ₂ , Lot 1, Con. II, Murphy Twp.	PROPERTY NAME Grid C
EXPLORATION CO., OWNER OR OPTIONEE ROSAIRO RESOURCES CANADA LTD.		DATE SUBMITTED	SUBMITTED BY (Signature) <i>Bruce Durham</i>		ft			
					ft			

FOOTAGE		ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS + Zn As			
FROM	TO						FROM	TO		Au ppb	Cu ppm	ppm	ppm
0	2	No return											
2	6		Brown clay										
6	40		Grey clay										
40	44		Gravelly till - some qtz chips.										
44	52		Clayey sandy (gravelly) till - a little qtz			9769	40	50	10	21	120	150	100
52	60		Clayey sandy till			9770	50	60	10	30	87	53	35
60	62		Clayey gravelly till			9771	60	70	10	150	140	42	58
62	70		Gravelly till some grey sericitized chips										
70	71		Gravelly till plus green & brown clay			9772	70	75	5				
71	75	Residual bedrock	Green clay + a few chips + minor qtz.										
75	77	Mafic Volcanic	Dark green fine grained moderately schistose chloritic volcanic + minor qtz.			9773*	75	77	2	3	+ Whole Rock		

* Bedrock samples



THE MINING ACT - MINISTRY OF NATURAL RESOURCES
DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO. MHO-51 PAGE NO. 1

DRILLING COMPANY BRADLEY BROS.		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE 87	DIP OF HOLE AT collar -90	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM L 20W 52 + 80N	MAP REFERENCE NO.	CLAIM NO. P516574
DATE HOLE STARTED November 21/79	DATE COMPLETED November 21/79	DATE LOGGED Nov 21/79	LOGGED BY B. Durham		ft		LOCATION (Twp., Lot, Con. OR Lot. and Long.) N ¹ / ₂ , Lot 1, Con. II, Murphy Twp.	PROPERTY NAME Grid C
EXPLORATION CO., OWNER OR OPTIONEE ROSARIO RESOURCES CANADA LTD.		DATE SUBMITTED	SUBMITTED BY (Signature) <i>Bruce Durham</i>		ft			
					ft			

FOOTAGE FROM TO		ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE †	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM TO		SAMPLE LENGTH	ASSAYS + Zn Ac Au ppb Cu ppm ppm PPM		
0	2	No return										
2	6		Brown clay									
6	27		Grey silty clay			9774	27	40	13	18	110	140 81
27	49		Sandy gravelly clayey till + significant qtz. 32' - small boulder as bedrock in MHO-49			9775	40	50	10	8	130	130 110
49	60		Sandy gravelly clayey till some qtz. Poor return 55 - 60'			9776	50	60	10	70	98	210 68
60	70		Clayey sandy till + a little gravel + argillite chips.			9777	60	70	10	310	100	69 80
70	78		Clayey sandy till + a little gravel			9778	70	80	10	1210	210	97 160
78	85		Clay till			9779	80	85	5	140	190	100 260
85	87	Argillite	Very slightly graphitic sediment 3% py Some qtz veinlets up to .2"			9780*	85	87	2	4		

* Bedrock sample



THE MINING ACT - MINISTRY OF NATURAL RESOURCES
DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO.	PAGE NO.
MHO-68	1
CLAIM NO.	
P 525276	

DRILLING COMPANY BRADLEY BROS.		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE 65	DIP OF HOLE AT collar -90	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM L 36E 53N	MAP REFERENCE NO.	CLAIM NO.	
DATE HOLE STARTED November 26/79	DATE COMPLETED November 26/79	DATE LOGGED Nov. 26/79	LOGGED BY B. Durham		ft		LOCATION (Tp., Lot, Con. OR Lot. and Long.) S½, Lot 11. Con. III, Hoyle Twp.	PROPERTY NAME Grid C	
EXPLORATION CO., OWNER OR OPTIONEE ROSARIO RESOURCES CANADA LTD.		DATE SUBMITTED	SUBMITTED BY (Signature) <i>Bruce Durham</i>		ft				
					ft				

FOOTAGE FROM	FOOTAGE TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS + Zn As			
							FROM	TO		Au ppb	Cu ppm	Zn ppm	As ppm
0	2	No return											
2	6		Brown clay.										
6	18		Grey clay.										
18	40		Sandy gravelly till.										
40	42		Gravelly till			9860	18	30	12	6	86	58	44
42	46		Sandy gravelly clayey till			9861	30	40	10	8	88	52	61
46	50		Clay till + minor sand & gravel portions.			9862	40	50	10	620	82	69	87
50	60		Gravelly till. A little white qtz at 58' A little green clay at 58.5'			9863	50	60	10	1380	120	39	63
60	61	Mafic volcanic	Green sericitic chips.			9864*	60	65	5	3			
61	63.5		Qtz + white sericitic chips.										
63.5	65		Green clay + a few chips.										

* Bedrock sample

MHO-76.

EVERY PAGE ✓ MHO-76 1

DRILLING COMPANY BRADLEY BROS.		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE 64	DIP OF HOLE AT collar -90	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM L 36E 76N	MAP REFERENCE NO.	CLAIM NO. P 52502	
DATE HOLE STARTED November 28/79	DATE COMPLETED November 28/79	DATE LOGGED Nov. 28/79	LOGGED BY B. Durham		ft		LOCATION (Twp., Lot, Con. OR Lot. and Long.) N ¹ / ₂ , Lot 11, Con. III, Hoyle Twp.	PROPERTY NAME Grid C	
EXPLORATION CO., OWNER OR OPTIONEE ROSARIO RESOURCES CANADA LTD.		DATE SUBMITTED	SUBMITTED BY (Signature) <i>Bruce Durham</i>		ft			ft	ft
					ft				

FOOTAGE FROM	TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS + Zn As		
							FROM	TO		Au ppb	Cu ppm	ppm ppb
0	2	No return										
2	6		Brown clay.									
6	37		Grey varved clay.									
37	62		Gravelly sandy till Cb? + qtz vein + py at 39'. Fair concentration of green sericitic chips and contorted, fractured seds. 50 - 60 small sections of grey white + green clay.			9884	37	50	13	2010	89	78 83
						9885	50	60	10	57	120	50 100
						9886	60	62	2	860	140	57 86
62	64	Dark sericitic schist (volcanic?)	Very sericitic highly contorted. Dark green schist + some dark grey slightly graphitic chips + minor qtz.			9887*	62	64	2	3	+ Whole	Rock
			* Bedrock sample									

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Report.

DRILLING COMPANY BRADLEY BROS.		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH 0	TOTAL FOOTAGE 63	DIP OF HOLE AT COLLAR -90	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM L 36E 71N	MAP REFERENCE NO.	CLAIM NO. P 525272		
DATE HOLE STARTED November 28/79	DATE COMPLETED November 28/79	DATE LOGGED Nov. 28/79	LOGGED BY B. Durham		ft		LOCATION (Tp., Lot, Con. OR Lev. and Loc.) N ¹ / ₂ , Lot 11, Con. III, Hoyle Twp.	PROPERTY NAME Grid C		
EXPLORATION CO., OWNER OR OPTIONEE ROSARIO RESOURCES CANADA LTD.		DATE SUBMITTED	SUBMITTED BY (Signature) <i>Bruce Durham</i>		ft			ft	ft	
					ft			ft	ft	

FOOTAGE FROM TO		ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM TO		SAMPLE LENGTH	ASSAYS + Zn AS Au ppb Cu ppm ppm ppm			
0	2	No return											
2	6		Brown clay.										
6	35		Grey varved clay.										
35	37		Gravelly till.			9888	35	50	15	3820	140	110	70
37	40	No return	Water seam.										
40	55	Poor return	Gravelly till.			9889	50	60	10	11	120	100	74
55	60		Sandy gravelly clay till. A little greenish clay at 59'			9890*	60	63	3	4			
60	63	Sericitic andesite?	Schistose sericitic medium green (to brown when weathered) volcanic. A little qtz at 62'.										
* Bedrock sample													

* For features such as foliation, bedding, schistosity, measured from the long axis of the core. + Additional credit available. See Assessment Work Regu...



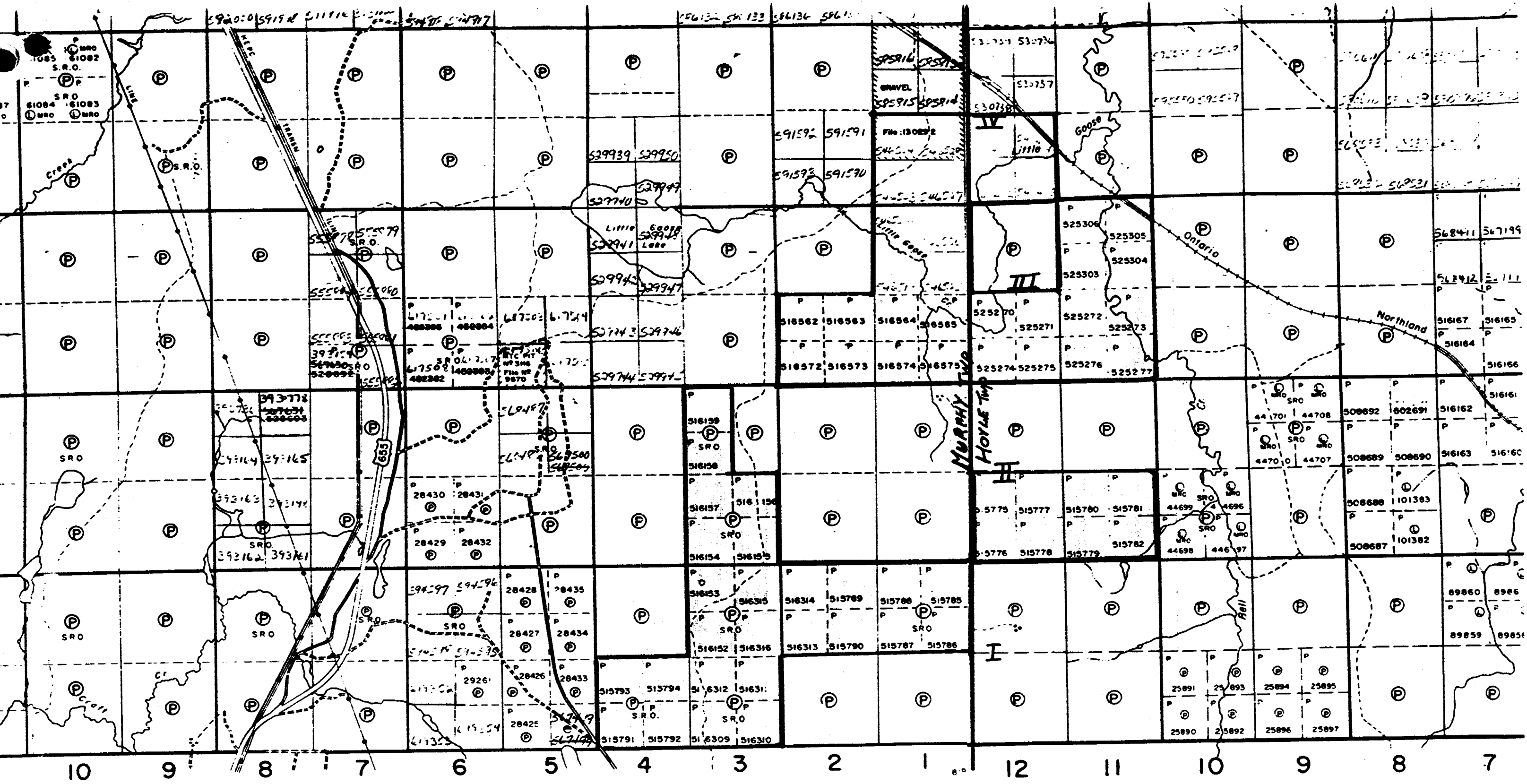
THE MINING ACT - MINISTRY OF NATURAL RESOURCES
DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

DRILLING COMPANY BRADLEY BROS.		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE 38	DIP OF HOLE AT collar -90	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM L 36E 55N	MAP REFERENCE NO.	CLAIM NO. P. 525276	
DATE HOLE STARTED November 28/79	DATE COMPLETED November 28/79	DATE LOGGED Nov 28/79	LOGGED BY B. Durham		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.) S $\frac{1}{2}$, Lot 11, Con. III, Hoyle Twp.	PROPERTY NAME Grid C	
EXPLORATION CO., OWNER OR OPTIONEE ROSARIO RESOURCES CANADA LTD.		DATE SUBMITTED	SUBMITTED BY (Signature) <i>Bruce Durham</i>		ft			ASSAYS + Zn AS	
					ft		Au ppb Cu ppm ppm ppm		

FOOTAGE		ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE +	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS + Zn AS		
FROM	TO						FROM	TO		Au ppb	Cu ppm	ppm
0	2	No return										
2	6		Brown clay.									
6	23		Grey clay.			9891	23	30	7	21	100	83 58
23	34		Sandy gravelly till. Qtz-carb sericite cobble at 30' + qtz vein.			9892	30	34	4	410	130	90 100
34	38	Carbonated Mafic Volcanic	Dark grey to grey green massive to moderately schistose volcanic. Qtz vein at 34.5'.			9893*	34	38	4	< 1		
			* Bedrock sample									

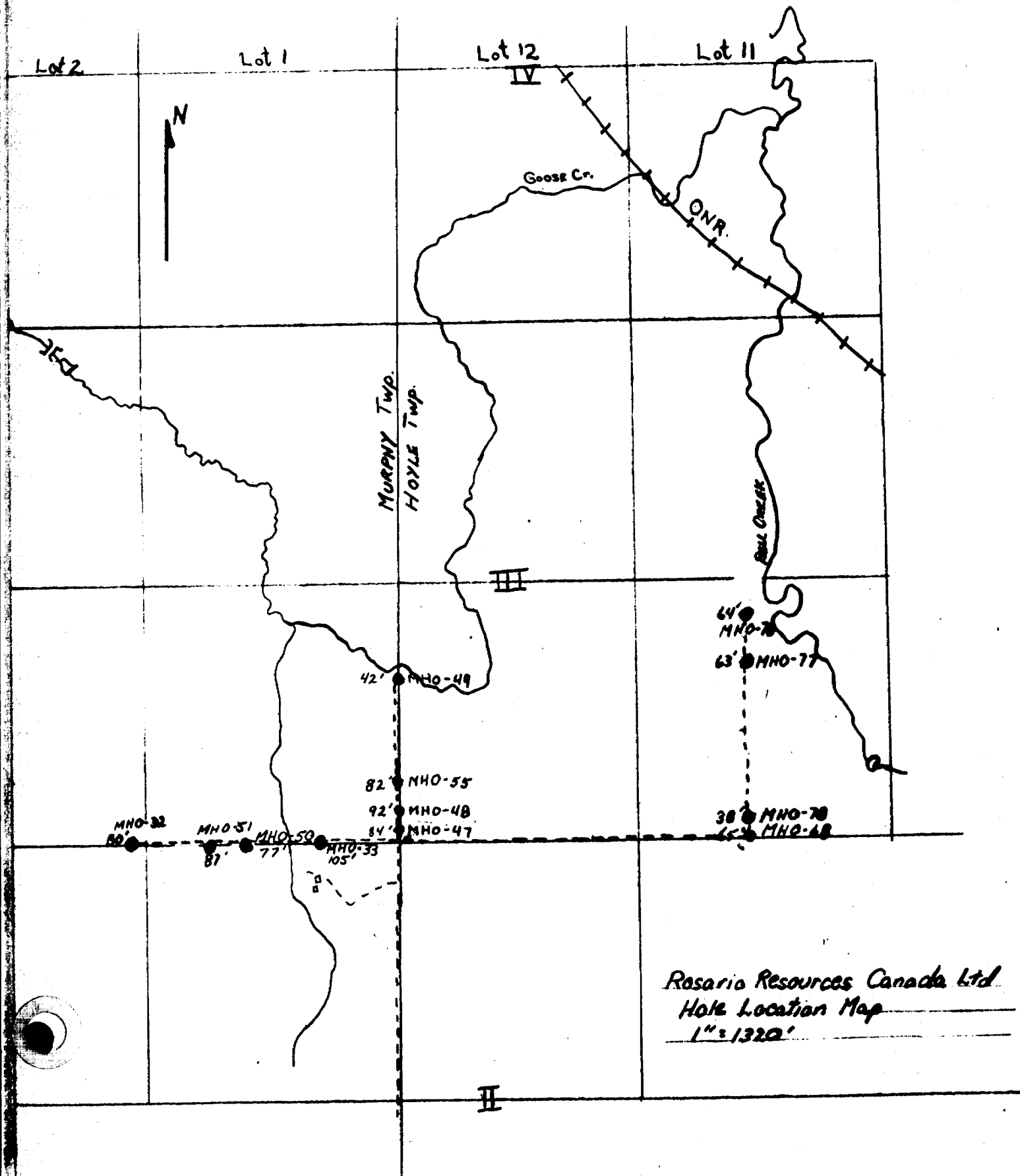
* Additional credit available. See Assessment work required.



TISDALE TWP. - M.315

Rosario Resources Canada Ltd
 Unpatented Claims
 Scale 1" = 1/2 mile

WHITNEY T



MEMO

To: Files
From: Bob Middleton

Date: November 27, 1978

Re: Ontario - Murphy - Hoyle - Overburden Drill Sample Processing

Overburden samples were delivered on November 22 to S. Averill's laboratory in Ottawa. The following procedure is used to process each sample to generate a number of products.

1. A 100 gram sample of the original (20 lb. ?) sample is taken.
2. The sample is then weighed.
3. The sample is screened and the + 10 mesh material is rebagged and saved.
4. The minus 10 mesh is then fed through a special tank feeder with an output on the bottom to a small shaking table. This feeder puts the coarse material onto the table first followed by the fines. This gives the opportunity to tell if the sample is a fill (i.e.) the clays and the coarser fraction can be easily seen.

Approximately 25 - 30 samples per day can be tabled. Over 90% of the heavy minerals are collected by the table process. Heavy minerals are clearly obvious on the table with gold riding at the edge of the tail with pyrite, magnetite, hornblendes, epidote, and garnet in bands in from the edge.

5. The dried heavy mineral preconcentrate (100 - 200 grams) is then put into a special glass funnel and mixed with methalene iodide (S.G. 3.32). Roughly 20% of the sample will sink (20 - 40 grams). The heavy minerals are drawn off the bottom through a valve and caught in filter paper in the mouth of a standard glass funnel, mounted in a rubber stopper and placed into the top of a vacuum flask. The methalene iodide is drawn through the filter paper under vacuum pressure and is thereby saved (its worth \$25.00 per lb.).

The lighter fraction from this heavy media separation step is saved.

6. The heavy mineral concentrate is spread out on a sheet of paper and a hand magnet is used to separate magnetite and drill steel from the heavy mineral final concentrate. However ilmenite, chromite,

and pyrrhotite are left behind in the concentrate. Approximately $\frac{1}{4}$ of this final sample is put into a plastic vial for later mineralogical study and $\frac{3}{4}$ is put into another vial for analysis.

Summary of samples:

- (a) 100 gm of original sample
- (b) + 10 mesh fraction
- (c) - 10 mesh non heavy fraction from table.
- (d) light fraction from heavy media separation
- (e) magnetic fraction from heavies in heavy media separation - mainly epidote & garnet
- (f) $\frac{1}{4}$ of non magnetic heavies
- (g) $\frac{3}{4}$ of non magnetic heavies

Notes on analysis:

Only $\frac{1}{2}$ gram is required to give Zn, Pb, Cu, Ag using AA whereas $\frac{1}{2}$ gram is required to give As using NAA and 10 grams are required for Au fire assay extraction. An attempt will be made to irradiate the 10 gram sample without fire assay extraction to see if both Au, As, and Zn (above 100 ppm) can be read directly.

Bob Middleton

Bob Middleton

BM/lj

c.c. Bruce Denton ✓

Sample No.	Wt. (kg)		Weight (grams)				Py %	Remarks
	Whole Sample	+10	M.I. Lights	M.I. Conc.	Mag.	Non-mag.		
MHO-79-46-36-48	13.2	1.4	129.5	37.1	9.5	27.6	1-2	Till Full F.T.
-48-60	22.0	3.2	129.7	48.4	11.2	37.2	2	"
-60-64	8.5	2.2	62.7	14.4	3.3	11.1	2	Till Wide-Full F.T.
47-37-50	23.0	2.7	127.0	92.2	18.3	73.9	1-2	Till Full F.T.
-50-60	10.1	1.0	101.4	30.0	6.7	23.3	3	"
-60-70	21.2	3.2	110.3	48.6	12.0	36.6	2	"
70-78	17.3	2.4	176.0	42.7	7.8	34.9	5	fair fg mass py "
48-38-50	11.7	1.5	259.4	10.0	3.2	6.8	3	"
50-60	15.6	2.3	156.5	50.5	10.7	39.8	<1	"
60-70	15.0	2.2	110.8	40.3	9.2	31.1	2	"
70-80	19.4	3.3	116.5	36.6	9.2	27.4	2	"
80-87	13.8	1.4	136.9	38.2	10.8	27.4	2	"
49-20-30	11.6	1.4	201.4	42.4	9.6	32.8	1	"
30-40	13.7	3.0	276.2	19.5	4.5	15.0	2	"
50-40-50	7.4	0.6	101.1	26.7	6.1	20.6	1	"
50-60	14.6	1.3	139.0	50.0	9.8	40.2	1	"
60-70	22.8	11.3	314.9	57.2	16.1	41.1	1-2	Till Mod. F.T.
51-27-40	14.1	1.2	238.9	35.1	10.2	34.9	2	Till Wide-Full F.T. some fg mass py
40-50	10.8	1.8	144.7	31.7	7.7	24.0	1	"
50-60	11.6	1.9	176.2	37.8	8.6	29.2	1	"
60-70	15.2	2.5	233.3	26.0	7.1	18.9	1-2	"

Sample No.	Wt. (kg)		Weight (grams)				Py %	Remarks
	Whole Sample	+10	M.I. Lights	M.I. Conc.	Mag.	Non-mag.		
MHO-77-31-70-20	17.4	1.9	341.5	23.9	7.5	16.4	2-3	Till Wide-Full F.T.
80-85	7.8	1.3	201.3	26.6	4.1	22.5	108	" Partly br (py-organic)
52-20-30	11.4	1.0	161.5	44.6	7.0	35.6	1-2	Till Wide F.T.
30-40	5.4	0.8	112.9	19.5	4.1	15.4	<1	"
40-50	7.8	0.9	170.5	36.2	7.9	28.3	1	"
50-60	11.1	1.2	148.7	40.3	9.6	30.7	1	Till Full F.T.
60-70	10.3	1.0	217.6	37.5	8.3	29.2	1	"
70-80	16.3	0.4	206.4	42.4	8.8	33.6	<<1	"
80-84	5.6	0.9	130.0	19.2	2.7	16.5	30	" largely in br chips
53-10-20	7.2	0.9	140.0	28.6	5.8	22.8	1-2	"
20-40	2.9	0.2	108.6	14.9	2.9	12.0	1	"
40-50	3.5	0.2	97.4	16.7	3.3	13.4	1	"
50-60	5.2	0.7	228.9	25.5	6.8	18.7	1	"
60-70	8.9	0.6	203.9	37.8	8.1	29.7	1	"
70-81	18.0	1.6	120.3	54.7	10.5	44.2	1	"
54-17-30	18.9	3.9	300.6	93.9	19.5	74.4	1	Till Wide-Full F.T.
30-40	13.9	3.7	261.9	48.6	10.3	38.3	5	" cb-sen-py chips!
40-42	4.9	1.4	93.3	14.6	3.6	11.0	2	"
55-40-50	0.0	1.2	263.9	41.9	8.3	33.6	1	"
50-60	4.7	0.9	78.8	18.2	3.4	14.8	1-2	"
60-70	12.9	1.7	232.2	28.8	6.6	22.2	2	" a little fg mass py

Sample No.	Wt. (kg)		Weight (grams)				V.G.	Remarks
	Whole Sample	+10	M.I. Lights	M.I. Conc.	Mag.	Non-mag.		
MHO-79-35-70-74	8.2	1.4	116.0	25.0	5.0	20.0	4	Till Wide-F.T.
56-31-40	11.7	2.5	251.9	22.4	5.3	17.1	3	+ some sericite
40-46	6.6	1.0	120.0	13.4	2.3	11.1	3	Some sericite chips (from SAN IP zone)
57-12-30	4.5	0.5	118.8	16.3	3.3	13.0	1	"
30-40	6.7	1.5	175.1	22.9	4.5	18.4	2	Till Wide F.T. some lg mass py
40-50	9.3	1.2	164.6	29.9	5.7	24.2	1	"
50-60	26.4	7.0	232.8	147.6	29.8	117.8	15	some gtz py-seric much lg mass py
60-61	1.3	0.5	121.6	2.6	0.5	2.1	15	as above
59-31-40	11.6	1.3	250.5	44.9	10.1	34.8	2	"
40-50	9.6	1.8	233.3	19.5	4.7	14.8	1	"
50-60	16.8	1.8	253.1	32.1	10.4	42.7	1	"
60-63	6.1	0.9	120.6	18.6	3.7	14.9	2	"
60-18-30	7.9	0.9	174.1	37.6	7.8	29.8	<1	"
30-40	6.8	0.8	161.4	27.0	5.1	21.9	1-2	"
40-50	13.6	2.1	210.7	53.6	12.1	41.5	<1	"
50-60	17.8	4.2	303.4	57.0	12.5	44.5	1	"
60-61	3.6	2.0	90.6	6.3	1.0	5.3	1	Till Mod.-fine F.T. green calc chips
61-10-20	12.8	3.4	196.9	53.1	10.5	44.6	2-3	Till Wide F.T. grey sericite chips
20-30	10.0	3.0	182.3	34.6	7.6	27.0	10-12	" some sericite chips
30-40	3.5	0.4	127.0	15.8	3.3	12.5	2	"
40-48	14.1	2.3	23.9	45.1	10.0	35.1	2	"

Sample No.	Wt. (kg)		Weight (grams)				*% Py	Remarks
	Whole Sample	+10	M.I. Lights	M.I. Conc.	Mag.	Non-mag.		
MHO-79-62-12-20	4.7	0.7	136.9	15.5	2.9	12.6	2	Till Wide F.T.
20-40	5.2	1.1	174.1	20.5	4.9	15.6	1	"
40-48	15.1	2.7	236.5	39.7	11.3	28.6	2	"
63-4-10	2.7	0.7	101.2	9.5	2.1	7.4	<1	"
10-20	10.3	3.2	129.5	27.6	5.6	22.0	4	Py + gtz 70% + 10% py
20-30	10.1	2.9	183.1	31.4	7.7	23.7	1-2	"
30-40	12.0	1.8	226.4	13.5	4.1	9.4	3-4	" Nice gtz-py series chips
40-44	3.8	1.1	99.7	6.2	1.0	5.2	1	"
64-18-30	10.2	2.3	155.0	30.8	7.2	23.6	1	"
30-34	5.9	1.8	89.6	12.7	2.9	9.8	2	" Some gtz-py series
65-2-10	3.9	1.3	94.7	11.5	2.4	9.1	<<1	"
10-30	10.7	1.7	175.6	32.2	7.9	24.3	3	" Some gtz-py series
30-40	15.7	5.4	229.3	39.1	10.4	28.7	2	"
40-50	15.6	6.7	225.3	36.7	8.8	27.9	6-8	" py-gtz series chips
66-20-30	7.5	0.9	144.3	33.3	6.8	26.5	1	"
30-40	9.6	1.3	126.7	37.4	8.6	28.8	1	"
40-30	15.1	6.0	130.6	27.2	7.5	19.7	1	"
50-60	17.7	10.7	159.1	23.0	6.7	16.3	1-2	Till Med-Poor F.T.
60-66	23.9	15.1	139.2	28.9	3.8	25.1	10-15	" some gtz-series py
67-25-30	4.7	0.4	87.5	24.5	4.9	19.6	<1	Till Wide F.T.
30-40	6.4	0.4	112.0	18.5	3.3	15.2	<<1	"

Sample No.	Wt. (kg)		Weight (grams)				Wt. % Py	Remarks
	Whole Sample	+10	M.I. Lights	M.I. Conc.	Mag.	Non-mag.		
MHO-79-67-40-54	5.7	0.7	75.6	31.7	7.2	24.1	<1	Till Wide F.T.
68-18-30	3.3	0.4	122.1	24.2	4.7	19.5	1	"
30-40	10.0	0.2	229.7	31.4	7.5	23.9	1	"
40-50	17.9	6.0	176.7	29.8	27.0	62.8	1	"
50-60	21.5	10.5	257.2	64.3	19.8	44.5	1-2	Till Poor F.T.
69-27-40	15.0	3.4	231.2	65.2	14.9	50.9	2	Till Wide F.T. minor gtz series
40-50	11.1	4.0	136.7	21.2	4.8	17.0	3-4	Till Mod. F.T. minor gtz series py
70-46-50	7.5	2.4	102.3	3.9	0.6	3.3	2	largely Eggs F.T. bedrock - limonite stain
71-38-44	10.7	1.3	255.6	59.6	13.3	46.3	1	Till Wide F.T.
72-41-49	13.2	3.9	153.7	48.5	10.5	38.0	1-2	"
73-29-40	16.0	2.0	68.2	78.6	15.2	63.4	<1	"
40-43	1.0	0.1	27.5	2.2	0.5	1.7	<1	"
74-12-20	11.7	4.0	174.8	30.0	6.5	23.5	2	"
20-30	9.0	2.5	127.1	29.9	6.7	23.2	2-3	"
30-40	16.0	2.7	205.1	72.0	15.8	56.2	2	"
40-42	5.3	0.5	89.4	20.5	4.6	15.9	<1	"
75-30-40	10.6	3.2	117.4	33.5	7.3	26.2	<1	"
40-46	11.1	3.7	125.8	47.0	10.2	36.2	1	tr gtz "
76-37-50	17.5	3.9	190.7	72.0	8.3	63.7	1-2	"
50-60	16.3	5.1	100.0	45.6	12.5	33.1	1	"
60-62	3.4	0.4	45.6	9.6	2.4	7.2	tr	"

X-RAY ASSAY LABORATORIES
LIMITED

1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4

CERTIFICATE OF ANALYSIS

INVOICE 6563 REF. FILE 2675-A5

TO: ROSARIO RESOURCES CANADA LTD.,
ATTN: BRUCE DURHAM,
P. O. BOX 1367,
TIMMINS, ONTARIO.
P4N 1N2

110 HEAVY MINERALS CONCENTRATES SUBMITTED ON 4-JAN-80

WERE ANALYSED AS FOLLOWS:

	UNITS	METHOD	DETECTION LIMIT
AU	PPB	FA-NA	1.000
CU	PPM	AA	1.000
ZN	PPM	AA	1.000
AS	PPM	NA	1.000

DATE 19-FEB-80

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY ... *J. H. Opdebeek* ...

J. H. OPDEBEECK

SAMPLE	AU PPB	CU PPM	ZN PPM	AS PPM
MHO-79-46 36-48	11	110	110	69
MHO-79-46 48-60	130	120	98	64
MHO-79-46 60-64	8	180	100	170
MHO-79-47 37-50	48	73	80	79
MHO-79-47 50-60	17	180	66	170
MHO-79-47 60-70	23	180	100	160
MHO-79-47 70-80	960	220	94	180
MHO-79-48 38-50	<1	160	220	140
MHO-79-48 50-60	86	120	100	85
MHO-79-48 60-70	7	160	95	150
MHO-79-48 70-80	24	260	97	140
MHO-79-48 80-87	50	150	110	180
MHO-79-49 20-30	69	120	90	50
MHO-79-49 30-40	11	150	130	70
MHO-79-50 40-50	21	120	150	100
MHO-79-50 50-60	30	87	53	35
MHO-79-50 60-70	150	140	42	58
MHO-79-51 27-40	18	110	140	81
MHO-79-51 40-50	8	130	130	110
MHO-79-51 50-60	70	98	210	68
MHO-79-51 60-70	310	100	69	80
MHO-79-51 70-80	1210	210	97	160
MHO-79-51 80-85	140	190	100	260
MHO-79-52 20-30	150	95	95	51
MHO-79-52 30-40	290	120	58	58
MHO-79-52 40-50	34	100	72	48
MHO-79-52 50-60	36	130	52	55
MHO-79-52 60-70	17	51	31	31
MHO-79-52 70-80	9	26	120	21
MHO-79-52 80-84	110	340	550	520
MHO-79-53 10-20	25	120	73	77
MHO-79-53 20-40	37	140	130	49
MHO-79-53 40-50	10	120	65	52
MHO-79-53 50-60	35	120	78	49
MHO-79-53 60-70	3	80	68	36
MHO-79-53 70-81	16	110	54	36
MHO-79-54 17-30	320	170	110	78
MHO-79-54 30-40	8	110	84	77
MHO-79-54 40-42	16	110	71	79
MHO-79-55 40-50	13	110	80	59
MHO-79-55 50-60	7	210	92	550
MHO-79-55 60-70	44	130	76	71
MHO-79-55 70-74	120	200	110	160
MHO-79-56 31-40	6	160	130	140
MHO-79-56 40-46	75	210	83	270
MHO-79-57 18-30	14	110	94	78
MHO-79-57 30-40	10	210	71	81
MHO-79-57 40-50	89	97	54	54
MHO-79-57 50-60	84	150	150	200
MHO-79-57 60-61	3	250	140	170
MHO-79-59 31-40	93	100	110	72
MHO-79-59 40-50	4	120	92	73
MHO-79-59 50-60	18	110	62	110
MHO-79-59 60-63	55	110	89	94
MHO-79-60 18-30	28	92	90	44

6g

3.4g

6g

6g

5.6g

6g

7.6g

8.1g

7.6g

SAMPLE	AU PPB	CU PPM	ZN PPM	AS PPM
MHO-79-60 30-40	51	76	71	72
MHO-79-60 40-50	10	100	45	36
MHO-79-60 50-60	1340	94	62	55
MHO-79-60 60-61	1800	210	100	180
MHO-79-61 10-20	38	240	290	45
MHO-79-61 20-30	13	140	220	64
MHO-79-61 30-40	9	110	120	60
MHO-79-61 40-48	11	92	74	71
MHO-79-62 12-20	1800	150	110	61
MHO-79-62 20-40	70	120	150	66
MHO-79-62 40-48	1660	200	56	180
MHO-79-63 4-10	290	95	38	10
MHO-79-63 10-20	74	170	180	750
MHO-79-63 20-30	490	150	190	180
MHO-79-63 30-40	55	210	140	190
MHO-79-63 40-44	160	500	65	110
MHO-79-64 18-30	17	160	150	150
MHO-79-64 30-34	2090	160	110	410
MHO-79-65 2-10	2	87	28	41
MHO-79-65 10-30	100	140	180	130
MHO-79-65 30-40	220	140	120	100
MHO-79-65 40-50	5720	180	250	250
MHO-79-66 20-30	220	120	96	92
MHO-79-66 30-40	19	95	82	100
MHO-79-66 40-50	7110	100	210	89
MHO-79-66 50-60	2730	180	80	100
MHO-79-66 60-66	45	870	77	620
MHO-79-67 25-30	1900	110	83	63
MHO-79-67 30-40	130	88	78	41
MHO-79-67 40-54	64	110	72	83
MHO-79-68 18-30	6	86	58	44
MHO-79-68 30-40	8	88	51	61
MHO-79-68 40-50	620	82	69	87
MHO-79-68 50-60	1380	120	39	63
MHO-79-69 29-40	12	110	130	120
MHO-79-69 40-50	490	220	100	530
MHO-79-70 46-50	8500	670	580	260
MHO-79-71 38-44	140	100	70	52
MHO-79-72 41-49	320	100	69	47
MHO-79-73 29-40	50	85	75	60
MHO-79-73 40-43	10	260	200	34
MHO-79-74 12-20	130	170	220	120
MHO-79-74 20-30	890	240	230	96
MHO-79-74 30-40	210	120	170	96
MHO-79-74 40-42	100	120	100	74
MHO-79-75 30-40	40	110	68	86
MHO-79-75 40-46	120	110	64	75
MHO-79-76 37-50	2010	89	78	83
MHO-79-76 50-60	57	120	50	100
MHO-79-76 60-62	860	140	57	86
MHO-79-77 35-50	3820	140	110	70
MHO-79-77 50-60	11	120	100	74
MHO-79-78 23-30	21	100	83	59
MHO-79-78 30-34	410	130	90	100
MHO-79-80 23-30	300	280	140	410

3.0

6.0

7.0

1.5

4.0

5.5

2.3

5.3

5.3

1.0

2.1

8.5

.3g

4g

2.1

X		X	RRRRR		A
XX		XX	RR	RR	AAA
	XX	XX	RR	RR	AA AA
		XXX	RR	RR	AA AA
		XXX	RRRRR		AAAAAAA
	XX	XX	RR	RR	AA AA
XX		XX	RR	RR	AA AA
X		X	RR	R	AA AA

MAJOR ELEMENTS

ROSARIO RESOURCES

TOTAL IRON REPORTED AS FEO
 THE CONTRIBUTION OF TOTAL IRON TO THE SUM
 IS CALCULATED AS FE2O3

REPORT NO. 6687

25-FEB-80

SAMPLES RECEIVED FROM B. DURHAM REF FILE 2841-14

25-FEB-80

X-RAY ASSAY LABORATORIES

SAMPLE	SI02	AL203	CAO	MGO	NA2O	K2O	FE0	MNO	TIO2	P2O5	L. O. I.	SUM
M-5-5 9813	54.3	15.1	1.33	4.74	3.50	0.13	12.4	0.22	0.87	0.05	4.15	98.2
S 9813	51.0	17.0	0.50	6.34	2.62	0.12	11.3	0.18	0.54	0.02	6.46	97.4
70 9868	46.0	13.8	6.36	13.2	0.64	0.14	9.83	0.20	0.37	0.03	5.69	97.3
M-5-75 9883	48.2	18.1	2.83	7.22	3.01	0.12	11.2	0.28	0.58	0.05	5.15	98.0
5-76 9887	61.9	14.5	1.77	3.14	2.39	1.56	5.93	0.07	0.68	0.16	6.00	98.8

X	X	RRRRR	A
XX	XX	RR RR	AAA
XX	XX	RR RR	AA AA
XXX		RR RR	AA AA
XXX		RRRRR	AAAAAAA
XX	XX	RR RR	AA AA
XX	XX	RR RR	AA AA
X	X	RR R	AA AA

MAJOR ELEMENTS

ROSARIO RESOURCES

**TOTAL IRON REPORTED AS FEO
 THE CONTRIBUTION OF TOTAL IRON TO THE SUM
 IS CALCULATED AS FE2O3**

REPORT NO. 6687

25-FEB-80

SAMPLES RECEIVED FROM B. DURHAM REF FILE 2841-14

25-FEB-80

X-RAY ASSAY LABORATORIES

SAMPLE	SI02	AL203	CAO	MOO	NA2O	K2O	FE0	MNO	TIO2	P2O5	L. O. I.	SUM
9873	54.3	15.1	1.33	4.74	3.50	0.13	12.4	0.22	0.87	0.05	4.15	98.2
9813	51.0	17.0	0.50	6.34	2.62	0.12	11.3	0.18	0.54	0.02	6.46	97.4
9868	46.0	13.8	6.36	13.2	0.64	0.14	9.83	0.20	0.37	0.03	5.69	97.3
9883	48.2	18.1	2.83	7.22	3.01	0.12	11.2	0.28	0.58	0.05	5.15	98.0
9887	61.9	14.5	1.77	3.14	2.39	1.56	5.93	0.07	0.68	0.16	6.00	98.8

X-RAY ASSAY LABORATORIES
LIMITED

1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4

CERTIFICATE OF ANALYSIS

INVOICE 6699 REF. FILE 2840-05

TO: ROSARIO RESOURCES CORPORATION,
ATTN: B. DURHAM,
SUITE 410, 55 YONGE ST.,
TORONTO, ONTARIO.
M5E 1J4

MAR 3 1980

M.H. ✓
was
Copy sent to
✓ Bruce
ask him what
project is a where
from to
Lab this
project
✓ MHC
6
1979
Redrawn

14 PULPS SUBMITTED ON 8-FEB-80

WERE ANALYSED AS FOLLOWS:

	UNITS	METHOD	DETECTION LIMIT
AU	PPB	FA-NA	1.000

DATE 28-FEB-80

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY ... *J. H. Opdebeek*

J. H. OPDEBEECK

SAMPLE	AU PPB
9759 M-0-77	3
9765 M-0-43	4
9780 M-0-51	4
9788	8
9804 M-0-55	2
9807	11
9814	2
9815	1
9831	100
9835	17
9855	25
9859	2
9864 M-0-68	3
9867	5

X-RAY ASSAY LABORATORIES
LIMITED

1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4

CERTIFICATE OF ANALYSIS

INVOICE 6687 REF. FILE 2841-14

TO: ROSARIO RESOURCES,
ATTN: BRUCE DURHAM,
P. O. BOX 1367,
TIMMINS, ONTARIO.
P4N 1N2

21 CHIP ROCKS SUBMITTED ON 8-FEB-80

WERE ANALYSED AS FOLLOWS:

	UNITS	METHOD	DETECTION LIMIT
AU	PPB	FA-NA	1.000
CO2	%	WET	0.100
CR	PPM	XRF	20.000
NI	PPM	AA	1.000

DATE 26-FEB-80

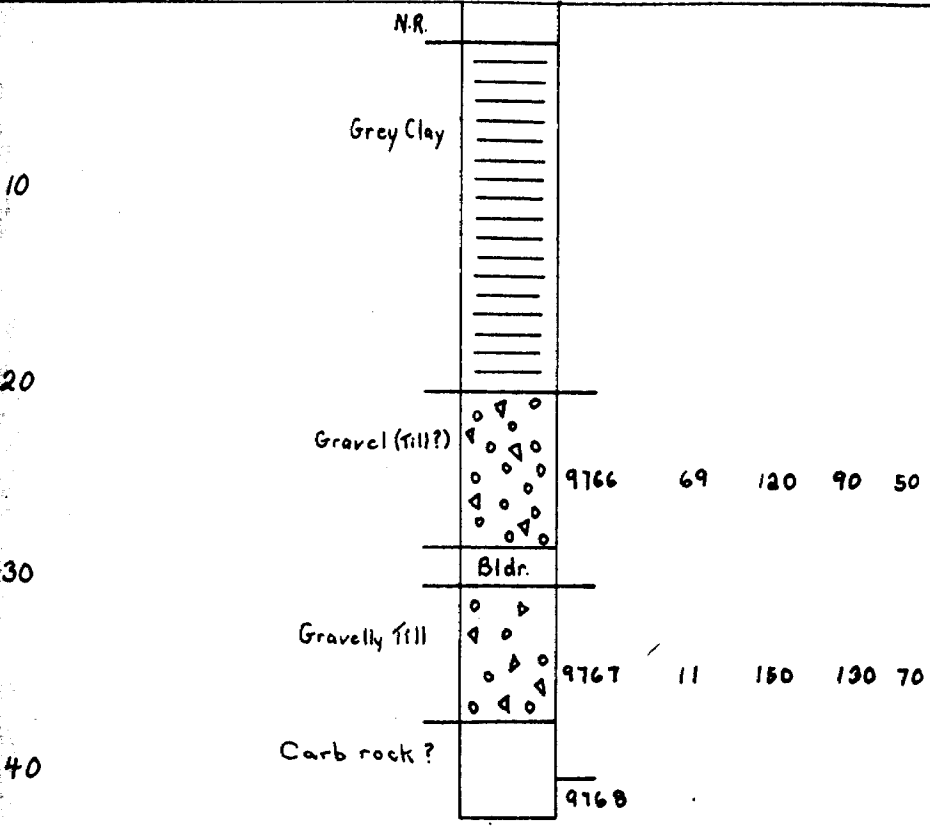
X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY *J. H. Opdebeeck*

J. H. OPDEBEECK

SAMPLE	AU PPB	CO2 %	CR PPM	NI PPM
8720	6	--	--	--
46 9754	3	--	--	--
50 9773	3	0.2	60	49
53 9795	6	--	--	--
54 9799	4	--	--	--
57 9813	1	0.2	140	140
59 9826	<1	--	--	--
63 9841	3	--	--	--
64 9844	2	--	--	--
65 9849	360	--	--	--
70 9868	2	0.2	880	200
71 9870	<1	--	--	--
72 9872	1	--	--	--
73 9875	4	--	--	--
74 9880	3	--	--	--
75 9883	11	0.2	140	120
76 9887	3	0.9	220	120
77 9890	4	--	--	--
78 9893	<1	--	--	--
79 9894	36	--	--	--
80 9896	65	--	--	--

Sample Au Cu Zn As
No. ppb ppm ppm ppm

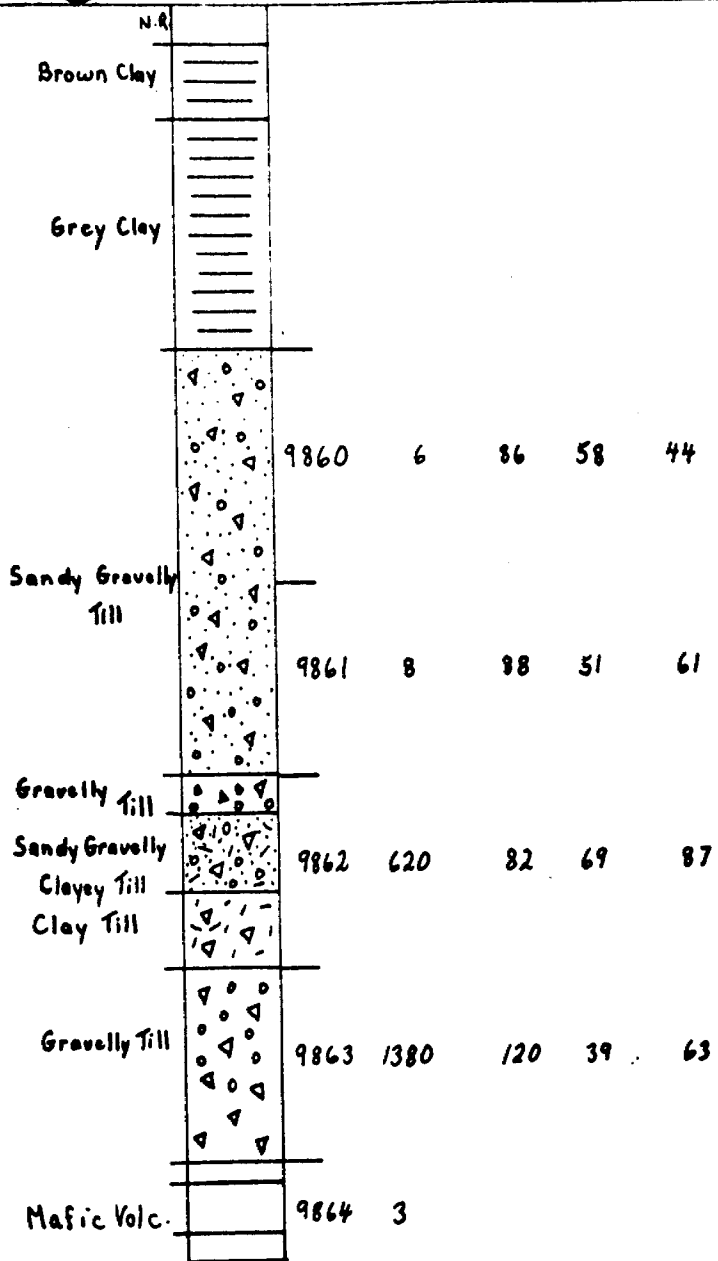


MHO-49
L0+00 69+00N

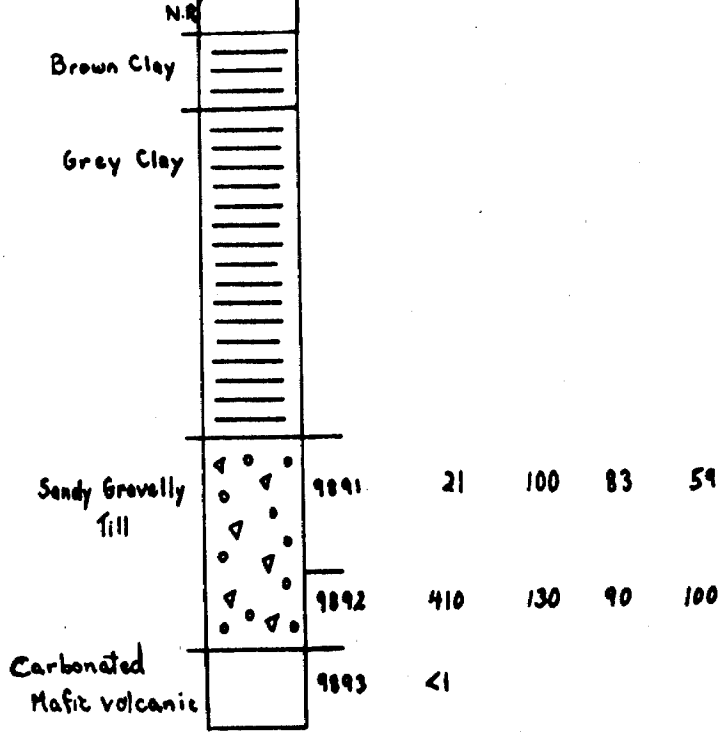
ROSARIO RESOURCES CANADA LTD
MURPHY-HOYLE TWR LINE.
Scale 1" = 10'

Sample No. Au. ppb Cu. ppm Zn. ppm As. ppm

Sample No. Au. ppb Cu. ppm Zn. ppm As. ppm



MHO-68
L36E 53N



MHO-78
L36E 55N

ROSARIO RESOURCES CANADA LTD.
HOYLETWP
Looking West
Scale Vertical 1"=10'
Horizontal 1"=50'



42A11SE0068 2.4434 HOYLE

900

January 15, 1982

2.4434

Office of the Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

We have received data for Overburden Drilling submitted under Section 77(19) of the Mining Act R.S.O. 1980 on Mining Claims P.516562 et al, in the Townships of Hoyle and Murphy.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

J. Skura/bk

cc: Rosario Resources Canada Ltd.
Toronto, Ontario
Attention: Bruce Durham

Murphy Twp. Hoyle

P-516565

Instructions: - Please type or print.
- If number of mining claims traversed exceeds space on this form, attach a list.
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

The Mining Act 2.4434

Type of Survey(s): **OVERBURDEN DRILLING**

Township or Area: **MURPHY & HOYLE TWPS.**

Claim Holder(s): **Rosario Resources Canada Ltd.** 14th floor, 7 King St. E., Toronto, Ont.

Prospector's Licence No.: **T-804**

Survey Company: **BRADLEY BROS, DOMINIK DRILLING Etc.**

Survey Dates (linecutting to office):
Day | Mo. | Yr. Day | Mo. | Yr.

Name and Address of Author (of Geo-Technical report)

Special Provisions Credits Requested

Instructions

For first survey:
Enter 40 days. (This includes line cutting)

For each additional survey:
using the same grid:
Enter 20 days (for each)

Geophysical	Days per Claim
- Electromagnetic	
- Magnetometer	
- Radiometric	
- Other	
Geological	
Geochemical	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
P	516562	60			
	516563	41			
	516564	20			
	516565	20			
	516572	20			
	516573	20			
	516574	20			
	516575	20			
	525270	60			
	525271	60			
	525272	60			
	525273	60			
	525274	60			
	525275	60			
	525276	60			
	525277	36			

Airborne Credits

Instructions

Complete reverse side and enter total(s) here

Geophysical	Days per Claim
- Electromagnetic	
- Magnetometer	
- Radiometric	
- Other	
Geological	
Geochemical	

Note: Special provisions credits do not apply to Airborne Surveys.

Electromagnetic	Days per Claim
Magnetometer	
Radiometric	

Expenditures (excludes power stripping)

Type of Work Performed: **OVERBURDEN DRILLING (Sect 77-19)**

Performed on Claim(s): **516565, 516573, 516574, 516575, 525272, 525276**

Calculation of Expenditure Days Credits

Total Expenditures: **\$10,817.80** + **15** = **721**

Instructions

Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Report Completed

Date of Report: **Dec 1981**

Recorded Holder or Agent (Signature): **Bruce Durham**

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: **Bruce DURHAM, Box 1367 Timmins Ont.**

Date Certified: **Dec 4/81**

Certified by (Signature): **Bruce Durham**

PORCUPINE MINING DIVISION

For Office Use Only

Date Reported: **Dec. 4/81**

Date Approved: **Dec. 17, 81**

Stamp: **7,8,9,10,11,12,1,2,3,4,5,6**

Total number of mining claims covered by this report of work: **16**

RECORDED

Stamp: **DEC 23 1981**

MINING LANDS SECTION



Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

Hoyle + Murphy Twp.
457

Instructions: - Please type or print.
- If number of mining claims traversed exceeds space on this form, attach a list.
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

P-525306

The Mining Act 2.4434

Type of Survey(s) <i>Drilling other than coring</i>	Township or Area <i>HOYLE TWP</i>
Claim Holder(s) <i>Rosario Resources Canada Ltd</i>	Prospector's Licence No. <i>T-804</i>
Survey Company <i>DOMINIK Drilling, Val d'Or Que</i>	Survey Dates (linecutting to office) Day Mo. Yr. Day Mo. Yr. <i>04 05 81 13 05 81</i>
Name and Address of Author (of Geo-Technical report)	

Special Provisions Credits Requested

Instructions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Man Days

Instructions	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits

Note: Special provisions credits do not apply to Airborne Surveys.		Days per Claim
	Electromagnetic	
	Magnetometer	
	Radiometric	

Expenditures (excludes power stripping)

Type of Work Performed
Drilling Overburden

Performed on Claim(s)
P 525306 (Sect. 77-19)

Calculation of Expenditure Days Credits

Total Expenditures	÷	Total Days Credits	=	
<i>\$ 6078.23</i>		<i>15</i>		<i>405</i>

Instructions

Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Report Completed

Date of Report
Oct 22/81

Recorded Holder or Agent (Signature)
R Bruce Durham

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying

R Bruce Durham

Box 1367 Timmins Ont

Mining Claims Traversed (List in numerical sequence)

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
<i>P</i>	<i>516564</i>	<i>40</i>			
	<i>516565</i>	<i>40</i>			
	<i>516572</i>	<i>40</i>			
	<i>516573</i>	<i>40</i>			
	<i>516574</i>	<i>40</i>			
	<i>516575</i>	<i>40</i>			
	<i>546523</i>	<i>40</i>			
	<i>546524</i>	<i>40</i>			
	<i>546527</i>	<i>40</i>			
	<i>546528</i>	<i>26</i>			
	<i>516563</i>	<i>19</i>			

RECEIVED
NOV - 9 1981
MINING LANDS SECTION

RECORDED
NOV 3 1981
REC'D No.

ORPINE MINING DIVISION
RECEIVED
OCT 29 1981
3 9 10 11 12 1 2 3 4 5 6 PM

For Office Use Only

Total number of mining claims covered by this report of work. *11*

Total Days Cr. Recorded
405

Date Recorded
Nov. 3 / 81

Mining Recorder
[Signature]

Date Approved as Recorded
92.12.02

Branch Director
[Signature]



Ministry of Natural Resources

Report of Work (Geophysical, Geological, Geochemical and Expenditures)

Hoyle Twp. #455 2.4434

P-525306

Instructions: - Please type or print. - If number of mining claims traversed exceeds space on this form, attach a list. Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns. - Do not use shaded areas below.

The Mining Act 2.4434

Form header section containing: Type of Survey(s) Assaying, Claim Holder(s) Rosario Resources Canada Ltd, Survey Company BELL WHITE LABS, and Township or Area Hoyle Twp.

Special Provisions Credits Requested section with instructions for Geophysical surveys (Electromagnetic, Magnetometer, Radiometric, Other) and Man Days.

Man Days section for recording days per claim for various survey types.

Airborne Credits section with a note that special provisions do not apply to Airborne Surveys.

Expenditures (excludes power stripping) section detailing Type of Work Performed (Assaying), performed on Claim(s) P525306, and Calculation of Expenditure Days Credits (\$360 + 15 = 2.4).

Report Completed section including Date of Report (Oct 28/81) and Recorded Holder or Agent (Signature).

Mining Claims Traversed table with columns for Mining Claim Prefix and Number, and Expend. Days Cr. Includes a stamp: RECEIVED NOV 3 1981 MINING LANDS SECTION.

For Office Use Only section containing Total Days Cr. Recorded (24), Date Recorded (Nov. 3/81), and Date Approved as Recorded (92.12.02).

Certification Verifying Report of Work section with a declaration: I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work... Name and Postal Address of Person Certifying (R. Bruce Durham) and Date Certified (Oct 28/81).



Mining Lands Comments

To: Geophysics

Comments

Approved

Wish to see again with corrections

Date

Signature

To: Geology - Expenditures

Comments

W/R. Kustra

Approved

Wish to see again with corrections

Date

Signature

10/2/82 C. Kustra

To: Geochemistry

Comments

Approved

Wish to see again with corrections

Date

Signature

LD

To: Mining Lands Section, Room 6462, Whitney Block.

(Tel: 5-1380)

COST BREAKDOWNDrilling (Bradley Bros.)

MHO-47	85'
48	92'
49	64'
50	78'
51	88'
55	82'
68	65'
73	45'
76	64'
77	63'
78	38'
	<hr/>
	764'

Cost/ft. $\$16,384.75/2059' = \$7.95/\text{ft.}$

Allowable expenditure credit: $764' \times \$7.95 = \$6,073.80$ \$ 6,073.80

(Dominik Drilling)

MHO-32	80'
33	108'

Cost/ft. $\$4,356.75/425' = \10.25

Allowable expenditure credit: $188' \times \$10.75 = \$1,927.00$ 1,927.00

Heavy Media Separation Cost (Overburden Drilling Management)

Invoice: Jan. 1980

37 methyl iodide concentrates @ \$25.00 = \$925.00 925.00

Analytical Costs (X-Ray Assay Labs)

46 Au analyses (N.A.A.) @ \$5.00	\$ 230.00	
37 As analyses (N.A.A.) @ \$5.00	185.00	
37 Zn analyses (N.A.A.) @ \$0.60	22.20	
37 Cu analyses (N.A.A.) @ \$0.60	22.20	
37 samples - drying charge @ \$0.35	12.95	
37 samples - acid digestion @ \$0.75	27.75	
2 CO ₂ analyses @ \$8.00	16.00	
2 Cr ² analyses @ \$3.50	7.00	
2 Ni analyses @ \$0.60	1.20	
2 Whole Rock analyses @ \$22.00	44.00	
	<hr/>	
	\$ 568.30	568.30

Salaries

Bruce Durham	Field 5 days @ \$104.87	\$ 524.35	
	Office 5 days @ \$104.87	524.35	
John Kopas	Field 5 days @ \$55.00	275.00	
		<hr/>	
		\$ 1323.70	1,323.70

TOTAL ALLOWABLE EXPENDITURE \$ 10,817.80

No. of days assessment credit: $\$10,817.80 + \$15.00 = 721.19$ days



INVOICE - FACTURE

DOMINIK DRILLING LTD. p. o. box 247, Val d'Or, P.Q. J9P 2X9
LES FORAGES DOMINIK LTEE case postale 247, Val d'Or, P.Q., J9P 2X9

Téléphone: (819) 824-6839 Téléc: 011-75523

Rosario Resources Corporation,
Suite 310 - 55 Yonge Street,
TORONTO, Ont. M5E 1J4

Invoice No. No. De Facture: 1572

Date May 15, 1979

Terms - Net 7 Days Termes - Net 7 Jours

Reverse Circulation Drilling - Timmins Area - May 4-15, 1979.

Table with columns: Hole # M.H.O, From 0 to, and description (e.g., Rev. Circ., Core). Includes entries for M.H.O-32 and M.H.O-33.

Table showing hourly rates for drilling from May 7 to May 15, including hours worked and cost per hour.

Cost of Material Used.

Table listing material costs: 3 NW Casing Shoes @ 111.25, 4 - 2-15/16 Tricone Bits @ 76.05, and Plus 10%.

Other Charges.

Table listing other charges: moving lines cutters @ 11.25, tractor @ 12.50, moving Geologist equipment @ 11.25, tractor @ 12.50. Includes handwritten note 'Cost per foot = 10.25'.

\$3,655.00

701.75
4,356.75

\$4,581.75

Expenditure allowable for MHO-32 and 33 = 188' x 10.25 = 1927.00

BRADLEY BROS. LIMITED

November 30, 1979

CONTRACT DIAMOND DRILLING

Rosario Resources Corporation
Suite 310 - 55 Yonge St.
Toronto, Ontario
M5E 1M4

HOLE NO.

TO COVER DIAMOND DRILLING FOR

November 16 to 28/79

FROM

TO

FOOTAGE COMPLETED

Howie Township

Mobilization

\$200 00

Mobilization from truck
road to drill site -
3 hours

90.00

270 00

M-H-O-46	0'	66'	66'
47	0'	85'	85'
48	0'	92'	92'
49	0'	64'	64'
50	0'	78'	78'
51	0'	89'	88'
52	0'	88'	88'
53	0'	82'	82'
54	0'	43'	43'
55	0'	82'	82'
56	0'	54'	54'
57	0'	63'	63'
58	0'	32'	32'
59	0'	65'	65'
60	0'	63'	63'
61	0'	51'	51'
62	0'	51'	51'
63	0'	50'	50'
64	0'	35'	35'
65	0'	52'	52'
66	0'	71'	71'
67	0'	58'	58'
68	0'	65'	65'
69	0'	52'	52'
70	0'	50'	50'
71	0'	50'	50'
72	0'	53'	53'
73	0'	45'	45'
74	0'	48'	48'
75	0'	48'	48'
76	0'	64'	64'
77	0'	63'	63'
78	0'	33'	33'

172 500 8-06

BRADLEY BROS. LIMITED

November 30, 1979

CONTRACT DIAMOND DRILLING

Rosario Resources Corporation
Suite 310 - 55 Yonge St.
Toronto, Ontario
M5E 1J4

HOLE NO.	TO COVER DIAMOND DRILLING FOR				
	FROM	TO	FOOTAGE COMPLETED		
		November 16 to 28, 1979			
		Equipment rental:			
		91 hours	0	115.00	10,465 00
		Breakdown:			
		✓ 4 hours	0	90.00	360 00
		Down the hole consumables:			
		✓ 5 button bits @ 625.00 -		3125.00	
		✓ 2 adapters @ 480.00 -		960.00	
				<u>4085.00</u>	
		Plus 150		<u>612.75</u>	4,697 75
		80 plastic bags @ 150			12 00
		Cost to move out to truck road:			
		2 hours	0	90.00	180 00
		Demobilization			200 00
					<u>\$16,384 75</u>
					<u>- 12 00</u>
					16 372.75

X-RAY ASSAY LABORATORIES
LIMITED

1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4

INVOICE 6563 REF. FILE 2675-AS

19-FEB-80

TO: ROSARIO RESOURCES CANADA LTD.,
ATTN: BRUCE DURHAM,
P. O. BOX 1367,
TIMMINS, ONTARIO.
P4N 1N2

110 HEAVY MINERALS CONCENTRATES SUBMITTED ON 4-JAN-80
WERE ANALYSED.

	METHOD	UNIT COST	AMOUNT
110	AU PPB	FA-NA	5.00
110	AS PPM	NA	5.00
			\$ 1100.00
110	CU PPM	AA	0.60
110	ZN PPM	AA	0.60
110	DRYING AND SEIVING		0.35
110	ACID DIGESTION		0.75
			\$ 1353.00
			\$ 1353.00
	Shipping & Delivery Charges		10.00
			\$ 1363.00

INVOICE PLEASE PAY THIS AMOUNT

\$ 1363.00

X-RAY ASSAY LABORATORIES
LIMITED

1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4

INVOICE 6687 REF. FILE 2841-14

26-FEB-80

TO: ROSARIO RESOURCES,
ATTN: BRUCE DURHAM,
P. O. BOX 1367,
TIMMINS, ONTARIO,
P4N 1N2

21 CHIP ROCKS SUBMITTED ON 8-FEB-80
WERE ANALYSED.

	METHOD	UNIT COST	AMOUNT
21	AU PPB	FA-NA	5.00
			105.00

			\$ 105.00
5	CO2 %	WET	8.00
			40.00
5	CR PPM	XRF	3.50
			17.50
5	NI PPM	AA	0.60
			3.00
5	W. R. ANALYSIS		22.00
			110.00
16	SAMPLE PREPARATION		1.50
			24.00
5	ACID DIGESTION		0.75
			3.75

			\$ 303.25
	SHIPPING/DELIVERY CHARGES		11.05

			\$ 314.30

INVOICE PLEASE PAY THIS AMOUNT

STATEMENT

K-RAY ASSAY LABORATORIES

LIMITED

45 LESMILL ROAD

DON MILLS ONTARIO M3B 2T8

445-5755

*Rosario Resources,
P.O. Box 1367
Sunnyside Ont.*

April 18/80

Attention Accounts Payable

DATE		PRICE	AMOUNT
<i>Jul 19/80</i>	<i>Invoice # 6563</i>		<i>1363.00</i>
<i>29/80</i>	<i>" # 6687</i>		<i>314.30</i>
			<i>\$ 1677.30</i>
<i>copies attached</i>			

TERMS: NET 30 DAYS

January 03, 1980

Rosario Resources Canada Limited
Suite 410, 55 Yonge Street
Toronto, Ontario
M5E 1J4

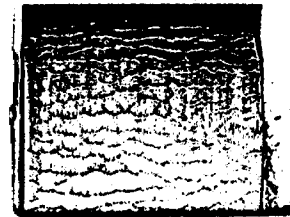
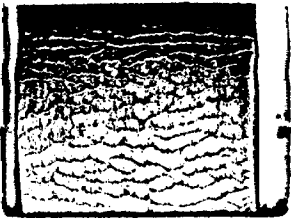
Re: Invoice - Overburden Drilling Program
Timmins, Ontario

Laboratory Services:

110 Overburden samples		
average weight 15 kg.	@ 25.00	\$2750.00

Yours truly,

S. A. Averill
President



ROSARIO RESOURCES CANADA LTD.

55 YONGE STREET, STE. 310, TORONTO, ONTARIO M5E 1J4

No. 2940

THE ROYAL BANK OF CANADA
20 KING ST. W.
TORONTO, ONT.

January 15 19 80

EXACTLY Two Thousand Seven Hundred Fifty ^{XX} DOLLARS \$ 2,750.00
100

PAY
TO THE
ORDER
OF

Overburden Drilling Management Limited

ROSARIO RESOURCES CANADA LTD.

Teo Romo
[Signature]

⑆06012⑆003⑆

265⑆778⑆1⑆

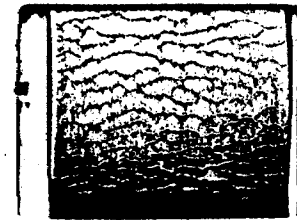
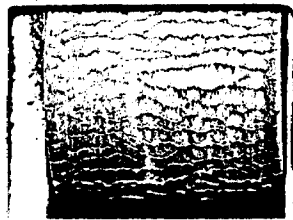
⑆0000275000⑆

60123
JAN 25 80
60123
20 KING ST. W.
TORONTO, ONT.

216-5
1000
ROYAL BANK
ONTARIO CPC

JA - 25
ROYAL BANK
ONTARIO CPC

10351624



ROSARIO RESOURCES CANADA LTD.

No. 3310

55 YONGE STREET STE. 410, TORONTO, ONTARIO M5E 1J4

THE ROYAL BANK OF CANADA
20 KING ST. W.
TORONTO, ONT.

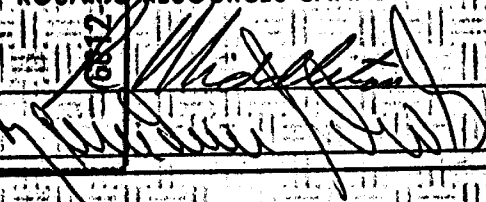
May 6 1980

THE ROYAL BANK OF CANADA
6012
MAY 12 1980
20-KING ST. W.
TORONTO, ONT.

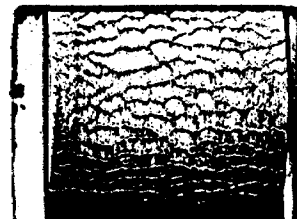
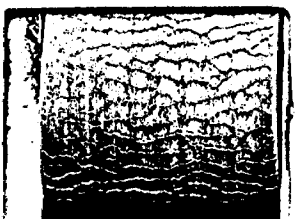
EXACTLY ~~One Thousand Six Hundred Seventy Seven~~ 30 DOLLARS \$ 1,677.30

PAY TO THE ORDER OF
X-Ray Assay Laboratories Limited

ROSARIO RESOURCES CANADA LTD.



⑆06012⑉003⑆ 265⑈778⑈1⑆ ⑈0000167730⑈

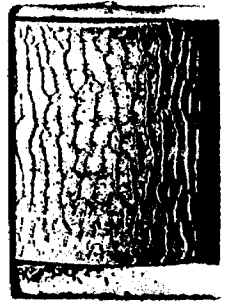
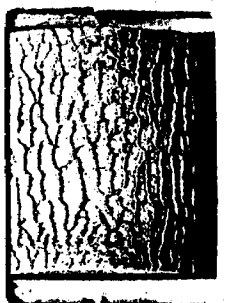


FOR DEPOSIT ONLY
TO THE CREDIT OF

X-RAY ASSAY LABORATORIES LTD.

06852-003
THE ROYAL POST OFFICE OF CANADA
884 YONGE ST. TORONTO, ONT.
M4W 1G7
06852

MAY 12 80



ROSARIO RESOURCES CANADA LTD.
55 YONGE STREET, STE. 310, TORONTO, ONTARIO M5E 1J4

No. 2843

THE ROYAL BANK OF CANADA
20 KING ST. W.
TORONTO, ONT.

December 17 19 79

EXACTLY Sixteen Thousand Three Hundred Seventy Two----- $\frac{75}{100}$ DOLLARS \$ 16,372.75

PAY
TO THE
ORDER
OF

Bradley Bros. Limited

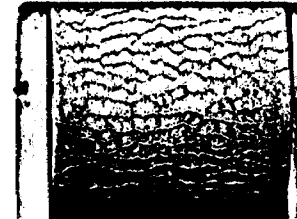
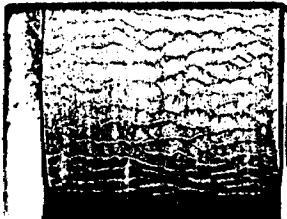
ROSARIO RESOURCES CANADA LTD.

For M. A. [Signature]
[Signature]

⑆06012⑆003⑆

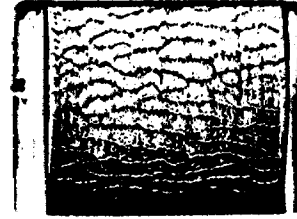
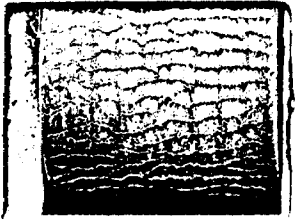
265⑆778⑆1⑆

⑆0001637275⑆



FOR DEPOSIT ONLY
TO THE CREDIT OF
ERACOM LTD. LIMITED

91283
00091010
DEC 1978
QUEBEC
CAMERON DE
MERCER
00091010
00091010



ROSARIO RESOURCES CANADA LTD.
55 YONGE STREET, STE. 310, TORONTO, ONTARIO M5E 1J4

No. 2240

THE ROYAL BANK OF CANADA
20 KING ST. W.
TORONTO, ONT.

May 23 19 79

EXACTLY Eight Thousand Three Hundred Seventy Eight ¹⁸/₁₀₀ DOLLARS 8,378.18

PAY TO THE ORDER OF Dominik Drilling Ltd.

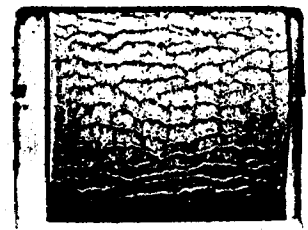
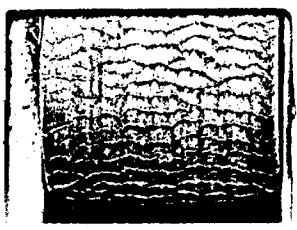
JUN 6 1979
THE ROYAL BANK OF CANADA
TORONTO, ONT.

ROSARIO RESOURCES CANADA LTD.
[Signature]

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265⑆778⑆1⑆

⑆0000837818⑆

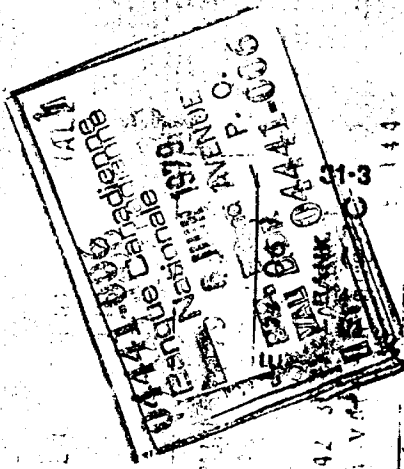


POUR DÉPÔT SEULEMENT
AU CRÉDIT DE
LES FORAGES DOMINIK LTÉE
DOMINIK DRILLING LTD.

Banque Canadienne
Nationale Montréal

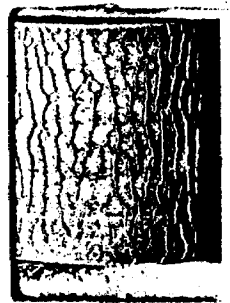
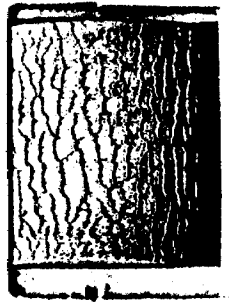
NK 686 NK

JUN -679 010 1226



842
6-444
144

12265920





INVOICE - FACTURE

DOMINIK DRILLING LTD. p. o. box 247, Val d'Or, P.Q. J9P 2X9
LES FORAGES DOMINIK LTEE case postale 247, Val d'Or, P.Q., J9P 2X9

Téléphone: (819) 824-6839 Téléc: 011-75523

Rosario Resources Corporation,
Suite 310 - 55 Yonge Street,
TORONTO, Ont. M5E 1J4

Invoice No. No. De Facture: 1572

Date May 15, 1979

Terms - Net 7 Days Termes - Net 7 Jours

Reverse Circulation Drilling - Timmins Area - May 4-15, 1979.

Hole # M.H.O From 0 to 75 - 75' Rev. Circ.
75 to 85 - 10' Core
0 to 52 - 52' Rev. Circ.
0 to 100 - 100' Rev. Circ.
M.H.O-32 0 to 80 - 80' Rev. Circ.
M.H.O-33 0 to 108 - 108' Rev. Circ.
Total footage for period 425'

May 7 - 9 hours @ 85.00 765.00
8 - 2 " @ 85.00 170.00
11 - 8 " @ 85.00 680.00
12 - 5 " @ 85.00 425.00
14 - 10 " @ 85.00 850.00
15 - 9 " @ 85.00 765.00

\$3,655.00

Cost of Material Used.

3 NW Casing Shoes @ 111.25 333.75
4 - 2-15/16 Tricone Bits @ 76.05 304.20
Plus 10% 63.80

701.75

Other Charges.

May 7 - 1 hour moving lines cutters @ 11.25
1 " tractor 12.50
15 - 9 " moving Geologist equipment @ 11.25
8 " tractor @ 12.50

11.25
12.50
101.25
100.00

\$4,581.75

M 17
=
4356.75
= 10.2

} J



INVOICE - FACTURE

DOMINIK DRILLING LTD. p. o. box 247, Val d'Or, P.Q. J9P 2X9
LES FORAGES DOMINIK LTEE case postale 247, Val d'Or, P.Q., J9P 2X9

Téléphone: (819) 824-6839 Téléc: 011-75523

Rosario Resources Corporation,
Suite 310 - 55 Yonge Street,
TORONTO, Ont. M5E 1J4

Invoice No. No. De Facture: 1571

Date May 3, 1979

Terms - Net 7 Days Termes - Net 7 Jours

BQ Wireline Surface Diamond Drilling - May 1-3, 1979.

Hole # M-H-79.2 From 125 to 441 - 316' coring

Coring 316 feet @ 11.00 3,476.00

Cost of Material Left in Hole.

Table with 3 columns: Description, Amount, Total. Rows include: 2 X 10' BW Casing @ 62.15 (124.30), 1 BW Casing Shoe (167.00), Plus 10% (29.13), and Grand Total (\$3,796.43).

Handwritten invoice form with fields for COMPANY (RRE LTD), CK. No., DATE (23/5/79), APPROVED (MURPHY), and TOTAL (8378.18).

ROSARIO RESOURCES CANADA LTD
 55 YORK STREET, STE. 310, TORONTO, ONTARIO M5E

No. 2240

THE ROYAL BANK OF CANADA
 20 KING ST. W.
 TORONTO, ONT.

May 23 19 79

EXACTLY Eight Thousand Three Hundred Seventy Eight $\frac{18}{100}$ DOLLARS \$ 8,378.18

PAY TO THE ORDER OF **Edminik Drilling Ltd.**

ROSARIO RESOURCES CANADA LTD.

[Signature]
 NOT NEGOTIABLE

⑆06012⑆003⑆ 265⑆778⑆⑆⑆

DETACH BEFORE CASHING

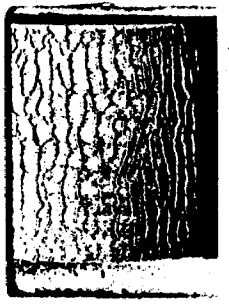
ROSARIO RESOURCES CANADA LTD.

No. 2240

DATE	DESCRIPTION	AMOUNT	DISCOUNT	NET AMOUNT
May 23/79	as per attached	\$8,378.18		\$8,378.18

PAY PERIOD ENDING	GROSS EARNINGS	DEDUCTIONS						NET EARNINGS PAID
		INC. TAX	UN. INS.	C.P.P.	LONG TERM DISABILITY	MAJOR MEDICAL	OTHER	

EMPLOYEE: THIS IS A STATEMENT OF YOUR EARNINGS AND DEDUCTIONS FOR THE PERIOD INDICATED. KEEP THIS FOR YOUR PERMANENT RECORD.



GOWAN TWP. (M.285)

THE TOWNSHIP OF
OF

HOYLE

DISTRICT OF
COCHRANE

PORCUPINE
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

PATENTED LAND	Ⓟ
CROWN LAND SALE	C.S.
LEASES	Ⓛ
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	—
IMPROVED ROADS	—
KING'S HIGHWAYS	—
RAILWAYS	—
POWER LINES	—
MARSH OR MUSKEG	—
MINES	Ⓜ
CANCELLED	C.

NOTES

400' Surface Rights Reservation along the shores of all lakes and rivers.
This township lies within the Municipality of CITY of TIMMINS.
Ont Northland Rwy. spur line R/W patented for S.R.O. File:177607.

Areas withdrawn from staking under Section 43 of the Mining Act (R.S.O.1970).
Order No. File Date Disposition

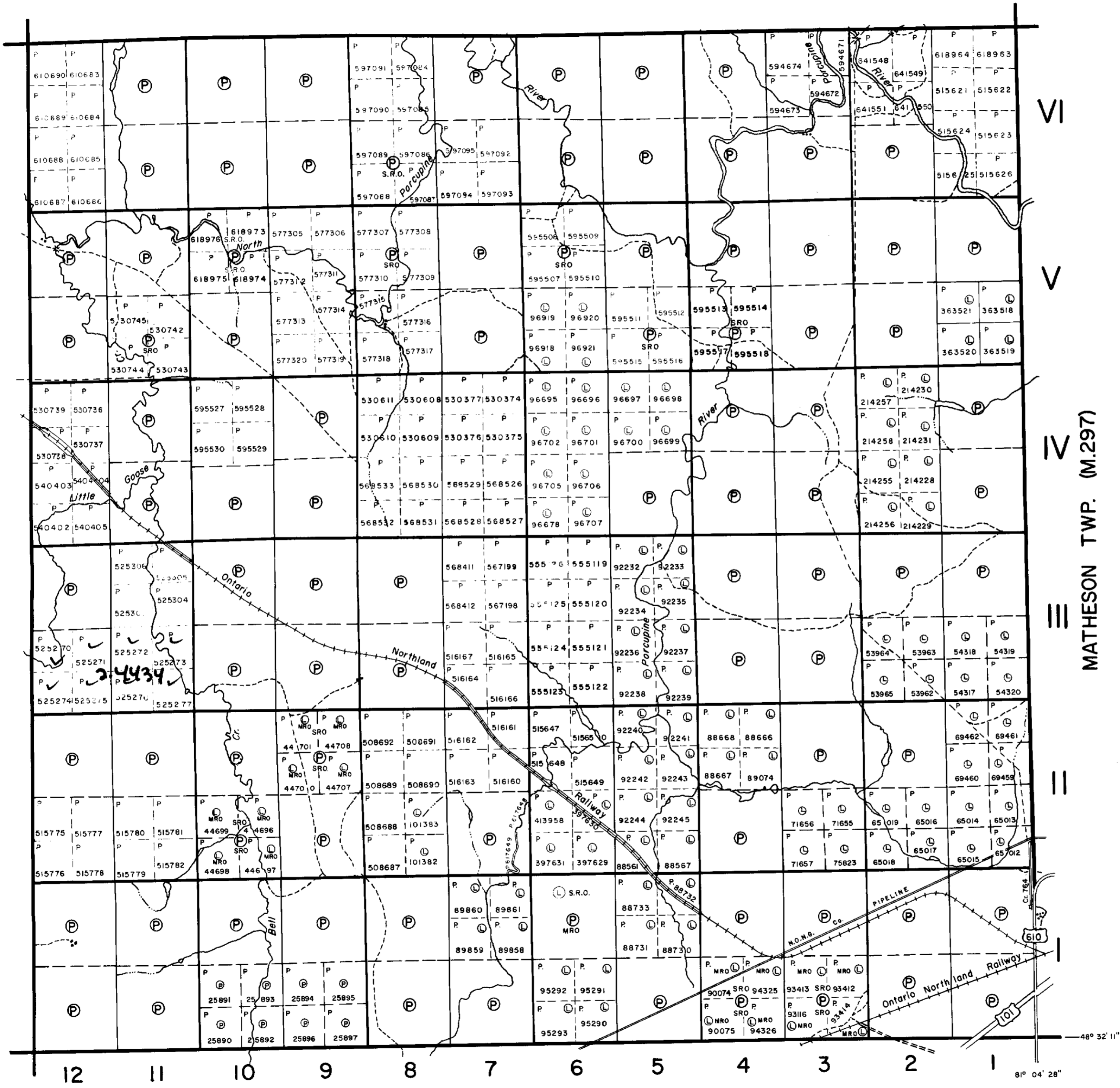
DATE OF ISSUE
DEC 20 1982
Ministry of Natural Resources
TORONTO

PLAN NO. **M.287**
ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

MURPHY TWP. (M.303)

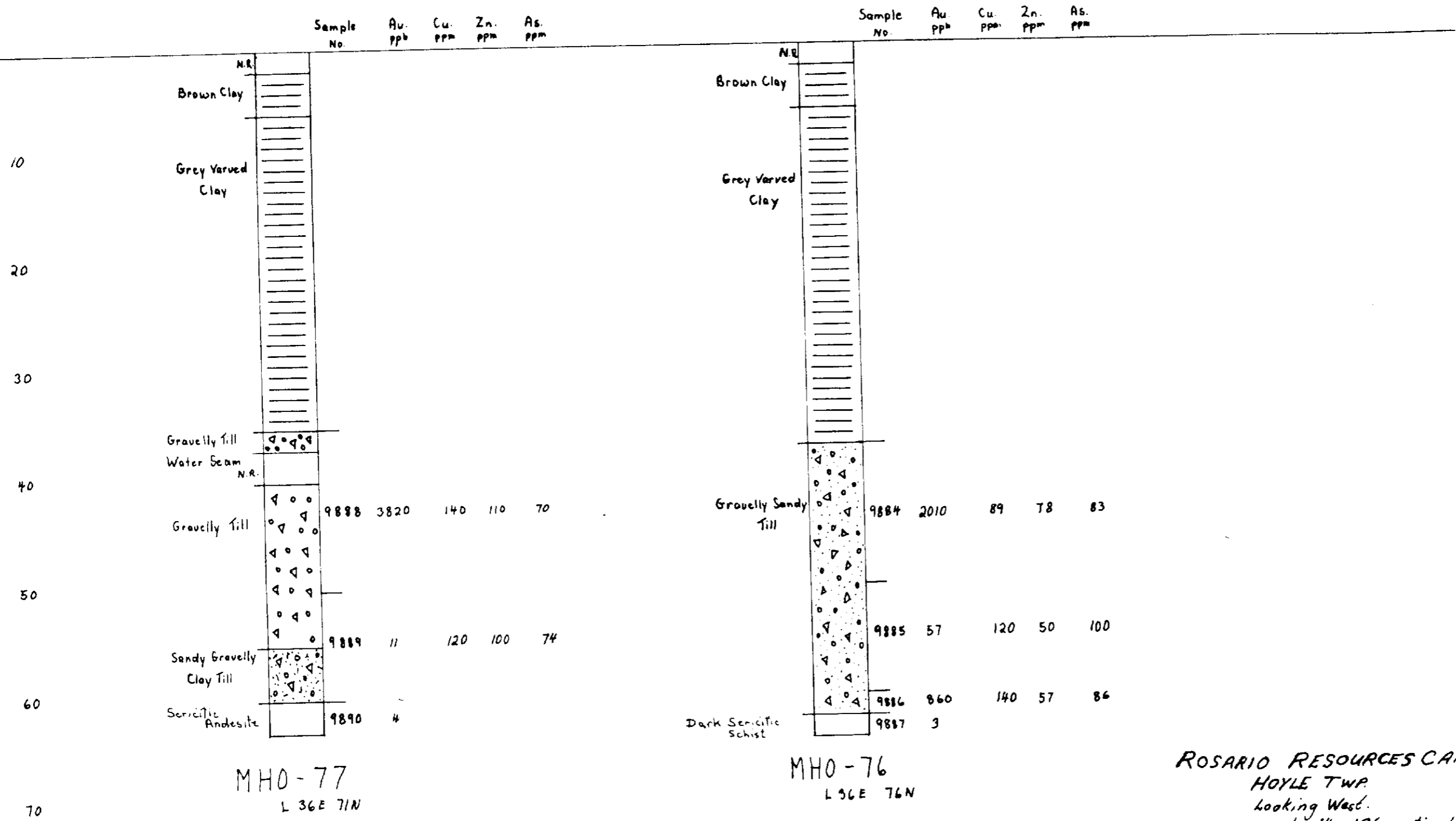
VI
V
IV
III
II

MATHESON TWP. (M.297)



WHITNEY TWP. (M.319)



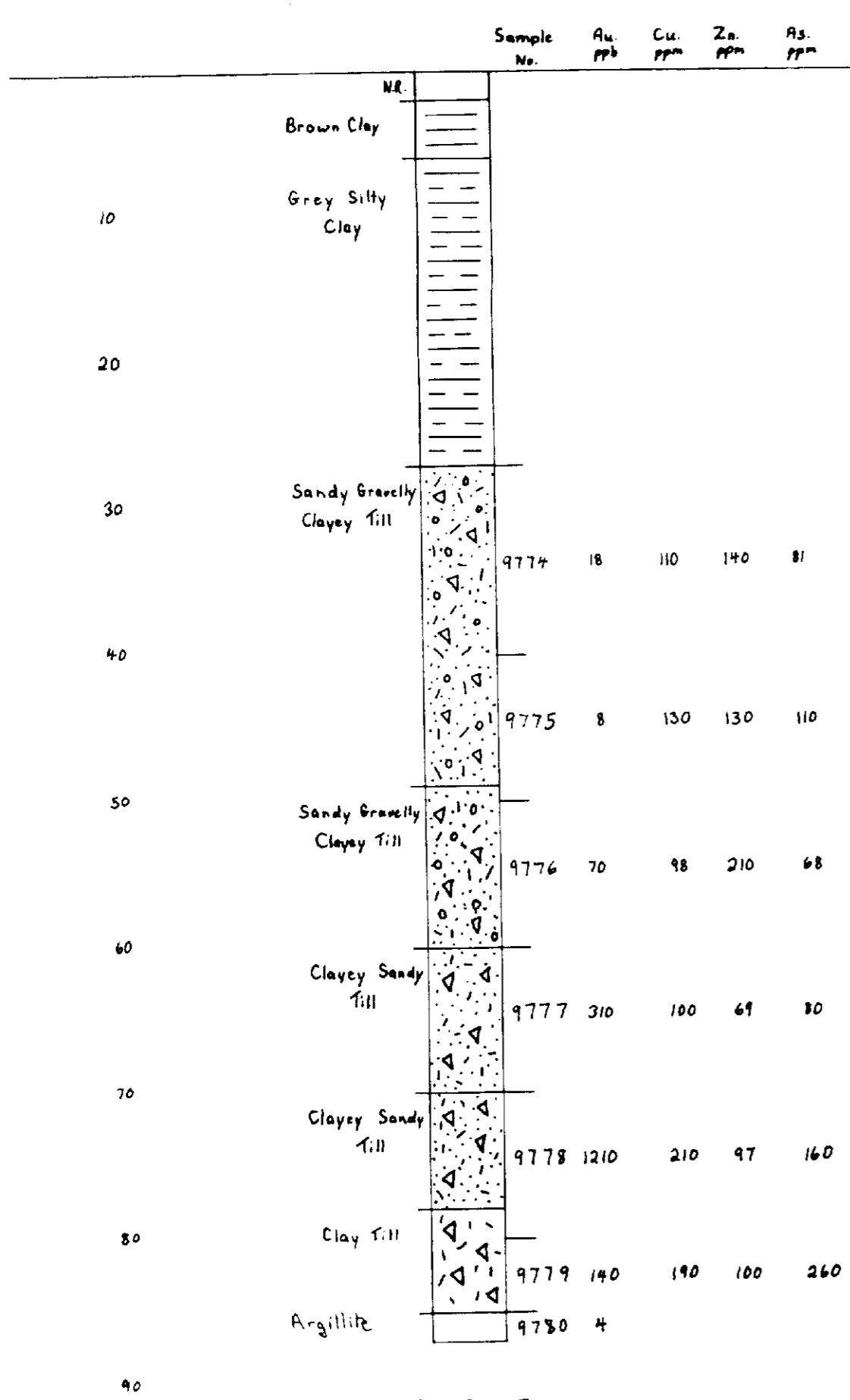


MHO-77
L 36E 71N

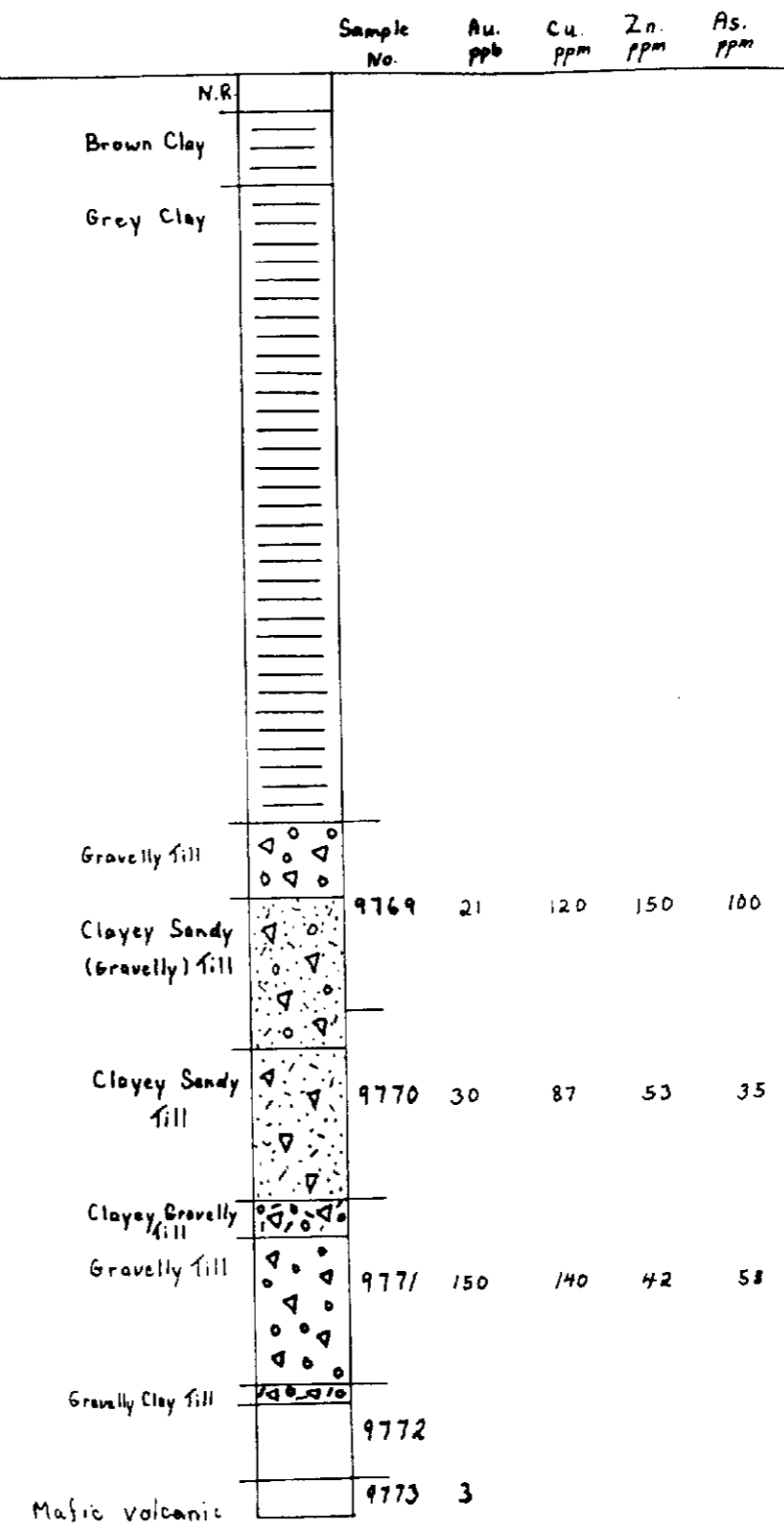
MHO-76
L 36E 76N

ROSARIO RESOURCES CANADA LTD.
HOYLE TWP.
Looking West.
Scale 1" = 10' vertical
1" = 100' horizontal





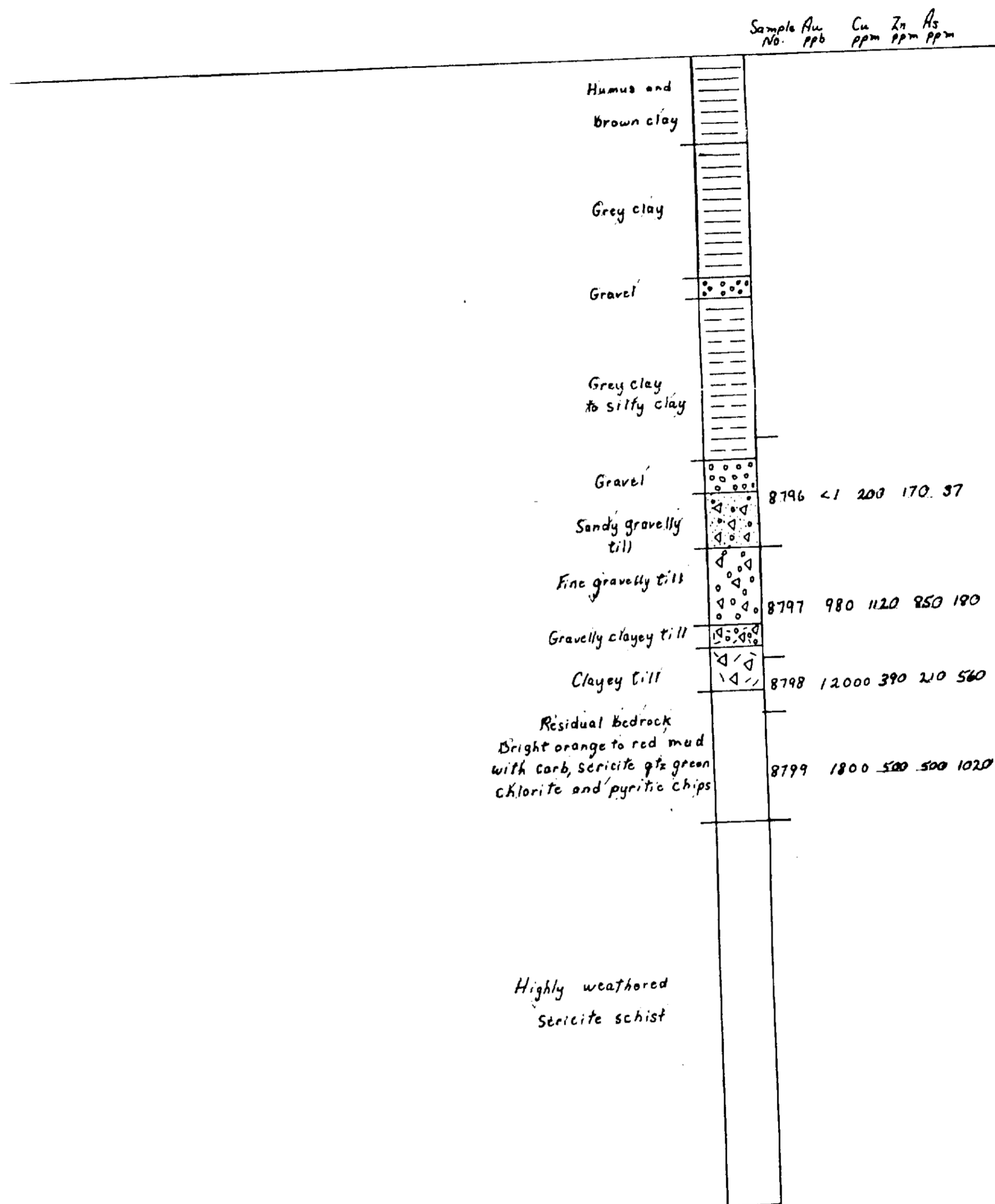
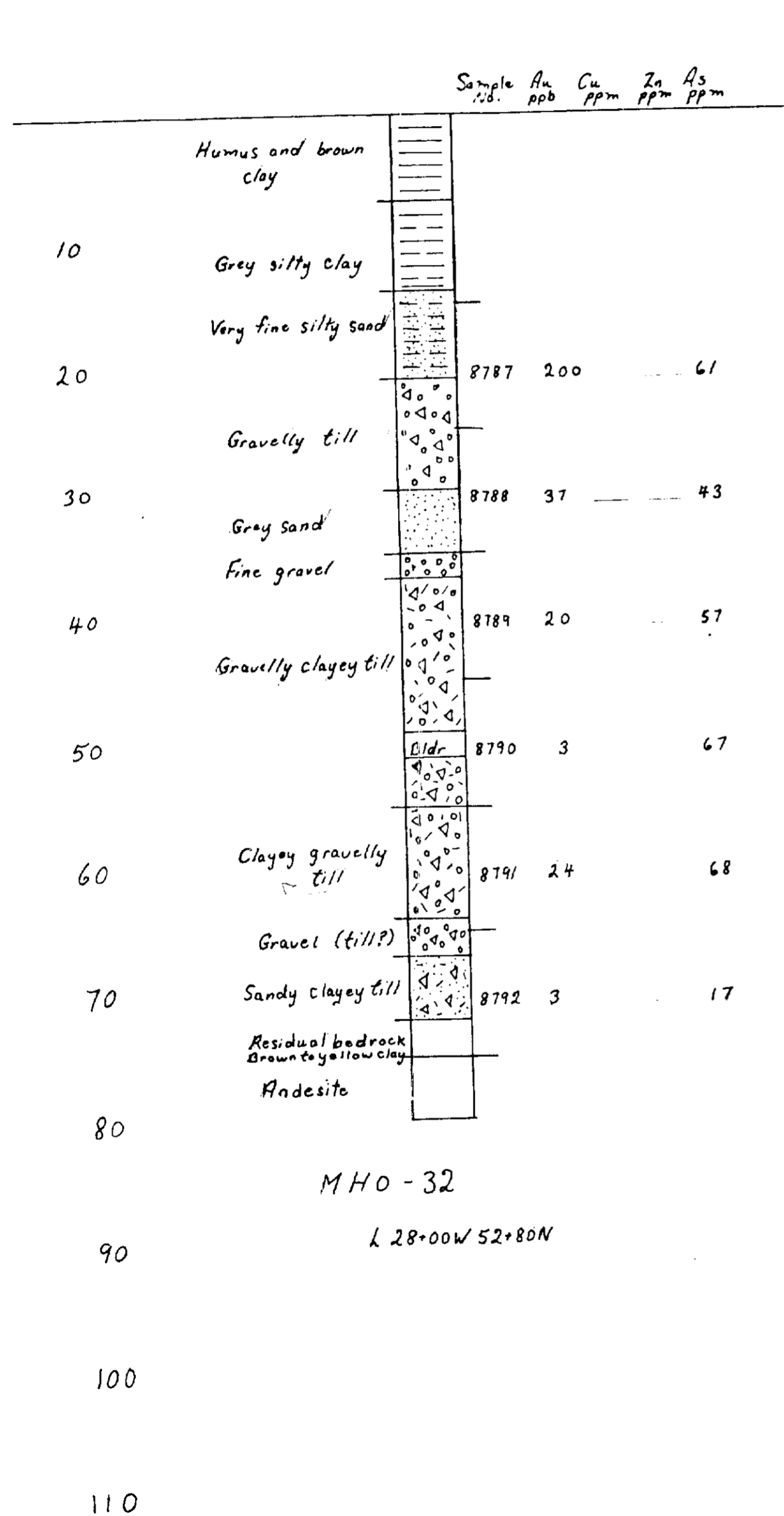
MHO-51
L 20W 52+80N



MHO-50
L 16W 52+80N

ROSARIO RESOURCES CANADA LTD.
MURPHY TWP.
Scale 1" = 10' Vertical
1" = 50' Horizontal

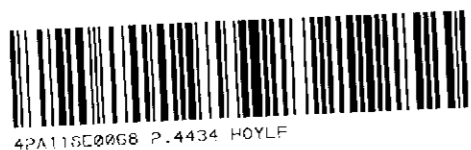


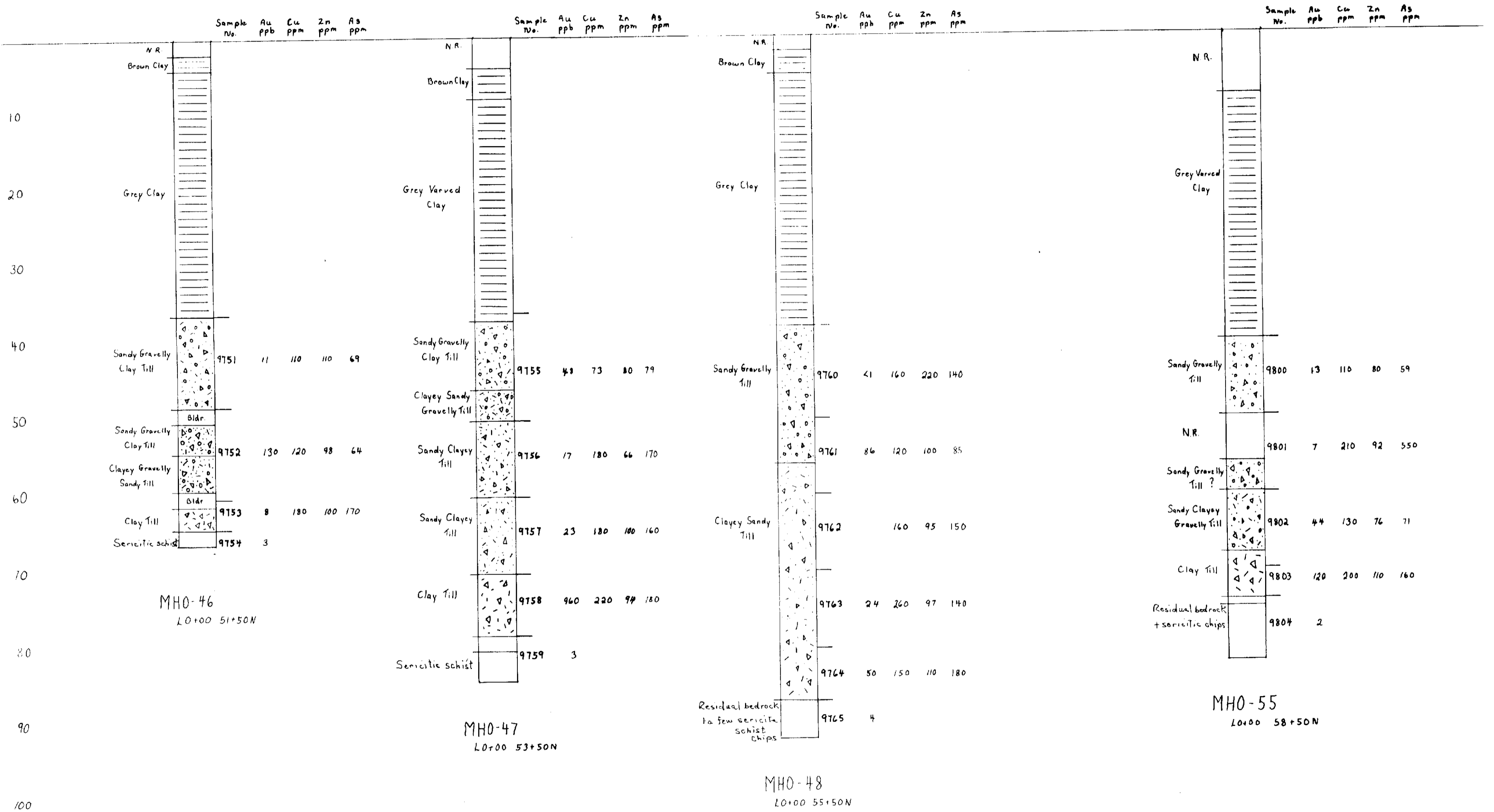


ROSARIO RESOURCES CANADA LTD.

MURPHY TWP

Scale 1" = 10' (Vertical)
1" = 200' (Horizontal)





ROSARIO RESOURCES CANADA LTD
 MURPHY & HOYLE TWP. Line
 Scale 1" = 10' (Vertical)
 1" = 50' (Horizontal)
 Looking West.

