42A04NW0016 2.10983 REEVES

010

PROGRESS REPORT
TRENCHING AND SAMPLING
on the
Reeves Joint Venture Property
of
GOLDROCK RESOURCES INC.
and
GLEN AUDEN RESOURCES LIMITED
Reeves, Sewell, Penhorwood and Kenogaming Twps.
Porcupine Mining Division
by
Don Garner, B.A., B.Sc.
November, 1987

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MINING LANDS SECTION

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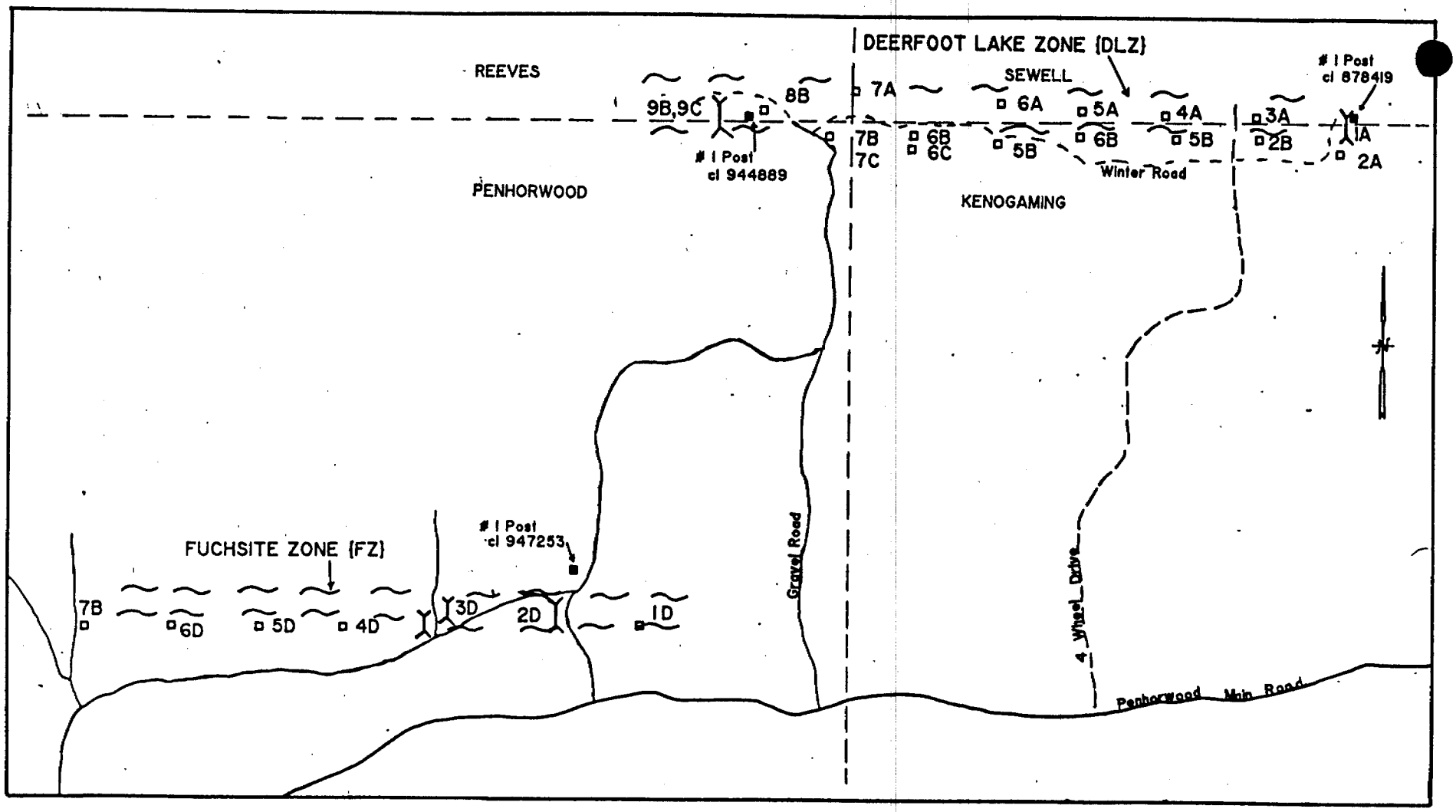
TABLE OF CONTENTS

LIST OF FIGURES

INTRODUCTION

A program of glacial till sampling, mechanical outcrop stripping and rock sampling was conducted during November, 1987, on the Reeves Joint Venture Property situated in Reeves, Sewell, Penhorwood and Kenogaming Townships, Porcupine Mining Division, Ontario (Figure 1). The property is held jointly by Goldrock Resources Incorporated and Glen Auden Resources Limited. The work was done on two zones interpreted by Burk (1987) to be highly prospective sites for gold mineralization, which are marked by pronounced structural deformation, i.e. shearing, as well as hydrothermal alteration in the form of pervasive carbonatization and, locally, quartz veining and sulfide mineralization. The 'Deerfoot Lake Zone' trends in a west-northwest direction and lies between Deerfoot Lake and the four contiguous township corners (Figure 1). The 'Fuchsite Zone' trends east-west and lies within a few hundred meters of the southern property boundary in Penhorwood Township (Figure 1).

Eighteen pits and trenches were excavated in the Deerfoot Lake Zone (DLZ). Glacial till and bedrock samples were collected from these sites where conditions permitted. An older set of trenches, pits and stripped bedrock on the western part of the zone in Reeves Township were mapped at a scale of 1:500. A 150-meter portion of previously stripped bedrock, representing a complete cross-section of the older trenching was cleaned of



LEGEND

- Pit
- Trench
- Claim Post
- Alteration Zone

SCALE
0 200M

REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.		
	for GOLDROCK RESOURCES INC. AND GLEN AUDEN RESOURCES LTD.		
	Title REEVES JOINT VENTURE PROPERTY		
	TRENCHING		Fig.
	Date: NOV/87	Scale:	N.T.S.:
	Drawn: D.G./S.S.	Approved:	File: M-223

loose soil, rubble and encroaching vegetation. Bedrock exposures, apparently not prospected before, to the north and west of the older trenches were enlarged and sampled. Channels were cut in the north-west 'discoveries' to provide a continuous set of assay samples across this extension of the zone. Maps at 1:100 scale were made of these locations. Channels were also cut in the northern end of the 150-meter exposure in the older trenched area, but time permitted the taking of only 5 samples from this part of the zone.

Seven pits and trenches were also excavated in the Fuchsite Zone (FZ). Glacial till and bedrock samples were collected where conditions permitted. One long trench (2D) of 75 meters dug at this phase of the programme was also cleaned. Time permitted the taking of only four channel samples from this site.

PREVIOUS WORK

Two 'old' trenches exist at the eastern end of the DLZ. Although well overgrown the trenches are on a hillside, 200 meters apart, and some bedrock remains exposed. The geology and history of these sites has been given by Burk (1987). 2.6 kilometers to the west along regional strike a series of pits, trenches and stripped bedrock have been preserved in varying conditions. Blast pits in hillsides 200 meters apart are readily accessible to channel sampling and detailed mapping. Trenches in

the till between these pits are partially filled in and well overgrown. Few grab samples can be taken. A grid at 100 meter intervals was cut over this portion of the zone in 1986.

The FZ has a single blast pit at its eastern end. Six hundred meters west along regional strike there are small roadside exposures of the zone. The geology of this zone was also described by Burk (1987).

TRENCHING AND TILL SAMPLING

A track-mounted backhoe with a boom capable of a twelve-foot reach was used to excavate pits and trenches in the glacial till along strike in the two zones. It was hoped the boom could reach bedrock through shallow overburden in which case a long trench could be opened enabling follow-up surface geology. Where bedrock was beyond the reach of the boom, it was expected that glacial till suitable as a sampling medium would be encountered.

During excavation of the pits, the till was closely monitored and logged (See Appendix A). Using 1-meter intervals in vertical depth (or lithological change as a criterion) a maximum of 4 samples was permitted by the reach of the boom. Since humus, organic soil and lacustrine sediments were not collected, four samples were rarely taken. In some cases no samples were collected. Ten to twenty-kilogram samples were collected in large plastic bags after being sieved through coarse

1/4-inch wire mesh. Where safety permitted samples were collected from the walls of the pit, otherwise the sample was brought up by the boom. Where till samples alone were the sampling medium, the pit was filled in. Pits were located at 400-meter intervals east-west along strike.

A 30-meter cross-section of altered bedrock was opened up near an older pit at the eastern end of the DLZ (Trench 1A, Figure 1). The trench is 20M west of Post #1, claim 878419. It was not cleaned, cut or sampled. It remains open. A step-out 50 meters south (Pit 2A) was meant to sample glacial till downice. Bedrock was encountered within centimeters of the surface.

Pits 3A to 7A followed a bearing at 275° from Trench 1A. No bedrock was encountered and since glacial till alone was sampled, the pits were filled in. During the excavation of Pit 7A it was discovered that the bearing had resulted in Pits 3A-7A being atop or upice from the zone. The pits were relocated at a bearing of 90° beginning with 7B back to 2B. Where unfavourable conditions required (usually low topography) a step-out of 25m to 50m was made to the south (7C, 6C, 9C). Trenches 8B, 9B and 9C were made atop the zone. With the exception of the last three trenches mentioned all oters in th "B" series were filled in. These last three trenches encountered altered bedrock in addition to providing basal till samples. Trench 9C was subsequently cleaned, cut and channel sampled.

Pits and trenches in the "D"-series were along the proposed strike of the Fuchsite Zone. Trench 2D was excavated 75 meters north-south near the old blast pit. Two samples were taken in the shallow basal till, one from the north end of the trench, the other from the south end. The whole trench was cleaned, a few meters of channels cut and 4 bedrock samples taken. Pit 1D was made 400 meters to the east to sample glacial till. It was filled in. Trench 3D, 600m west of 2D was opened up over a roadside exposure. The site has been left open, but has not been cleaned or sampled. Pits 4D to 7D made at 400 meter intervals westward were dug for glacial till samples and filled in.

TRENCHING - RESULTS AND CONCLUSIONS

Approximately 68% of the pits and trenches yielded till samples which are considered of value in detecting Au-dispersion trains. The other 32% of the diggings either did not penetrate below lacustrine sediments which are of little value in till sampling, or encountered bedrock near surface with no till cover. In total 52 till samples were collected and delivered to Overburden Exploration Services for preparation. Each sample weighed between 10 and 20kg. 1kg of the till was screened through a -80 mesh to prepare a sample of "fines". The other 9-19kg was used to prepare a heavy metal concentrate (HMC) which is the usual procedure in dealing with glacial tills. Both sets

of samples were conveyed to Bondar-Clegg, Ottawa for gold and multi-element analysis using neutron activation and the "Gold Plus 33, Option 1" package offered by the company.

A preliminary mineralogical report from OES (see Appendix B) indicates that gold was suspected in 9 samples. "Super-panning" of the HMC's revealed visible gold in 6 of these. Three of these samples ("D"-series) are from the Fuchsite Zone, the remainder from the DLZ. (See Figure 1. Sample numbers refer to Pit number with numeric suffixes denoting vertical depth in meters in descending order. See also Trenching Logs - Appendix A). Statistical treatment of the 6 data points (see Bulk Assay Report, Appendix C) indicates that only the 7,380 ppb Au in Pit 2D is anomalous. Time permitted the cutting of 4 meters of channels and sampling of bedrock in this pit at the conclusion of Channel Sampling (see below). There is no outcrop immediately proximal to the other sample locations of the OES report.

The assays for the heavy metal concentrates (HMC's) are contained in Appendix G where it is noted that two of the samples were "oversized" and split (1D-02 and 6B-03) yielding 54 samples. The data contained in this report needs to be filtered to be meaningful. This is done by dividing the results by the concentration factors for each sample found in Appendix F. This was done for Cr, Co, As, Sb and Au. Each of these 5 elements was statistically treated and statistical anomalies were delineated

as being those greater than two standard deviations above the mean. These anomalies are indicated by the rectangular blocks on the report.

There are 3 statistically anomalous results for gold. Two of these, 2D-01 and 7C-02N, had been detected by OES (see Appendix C). 2D-01 is also anomalous in Cr, Co, As and Sb. Field inspection had indicated that the rock type is ultramafic accounting for the Co and Cr anomalies. This is the only area where arsenic is anomalous. Antimony is also anomalous in Pit 3D. The Au-anomaly in 7C may also be associated with ultramafics since Co is anomalous as well. The Au-anomaly in Pit 4D is not associated with any other anomalies. However, the position of this anomaly "high up" in the stratigraphic column indicates it may have been transported a greater distance than the other Au anomalies. These results indicate possible gold mineralization a short distance up ice (north-northwest) from trenches 2D, 3D and 7C and further up ice from trench 4D.

Thirty-four samples of fines were sieved into -80 and -250 size fractions as an experiment to determine by bulk analysis if these fractions contained gold which might have been masked by the HMC's. The samples chosen had been nalyzed as being anomalous for gold (HMC's) or were in close proximity to anomalous samples. As the results show (Appendix I) the results for these fines were totally insignificant and nothing was gained

by the experiment.

MAPPING

Mapping at 1:500 was done to tie in the older workings near the Four Corners. A grid had been cut over the workings in 1985 when part of it (between L0 and 4W and between 8W and 12W) was mapped for Goldrock. Lines on the existing grid are at 100m intervals east-west with pickets at 25 meter intervals north-south. Tie lines were flagged at 25 meter intervals east-west and north-south. Because magnetics on this part of the property are unreliable, the flagged tie lines had to be made using triangulation. It is assumed the cut lines were made using backsighting and are correct. The full extent of the previous workings at the Four Corners is given in the 1:500 Map in the pocket at the end of this report. The condition of these older trenches has been mentioned in Previous Work above.

It was hoped that cleaning and sampling of the new trenches, new and old bedrock exposures, and selected old trenches would provide a complete cross section of the two zones which could be mapped at 1:100. Unfortunately only the north west corner of the DLZ could be sampled and mapped this year. Six maps of this part of the zone are to be found as insets on the map in the pocket at the back of this report.

TRENCH CLEANING AND CHANNEL SAMPLING

A Wajax water pump and 1,000 feet of canvas hose were used to clean cross sections of bedrock in the two zones. Approximately 250 meters across strike have been cleaned in the DLZ west of the Four Corners. Pit 1A excavated this season at the eastern end of the zone remains to be cleaned and sampled. Pit 2D in the FZ exposes 75m of altered bedrock which was cleaned. About 15m of trenching in Pit 3D, 600m to the west of this zone remains to be cleaned and sampled.

A Stihl rocksaw (chainsaw type with stone blades not requiring water) was used to cut about 50 meters of cleaned bedrock. Approximately 35 meters of channel cuts were sampled leaving about 15 meters in the west DLZ for another season. Each sample was at most one meter in length.

Of the 35 samples collected, 31 were in the northwest corner of the DLZ. These samples were made in intensely to well foliated schists of mafic volcanic origin. The schists were chloritic to the north with increasing sericitization southward. Discontinuous quartz veining or blebs were common. Sulphides were locally abundant or absent although rusty weathering was ubiquitous. (See Bedrock Sample Tags - Appendix D).

Samples A22351-81 inclusive were collected over the DLZ. All but the first and last in this set were channel samples, A22351 and A22381 being grab samples. Another 100 samples could

be cut and collected at the western end of the zone between L475W and 500W. Another 25 to 30 samples could be taken from Trench 1A at the eastern end of the zone.

Although 75 meters of bedrock had been cleaned in Trench 2D in the FZ only 4 meters were cut and sampled at the north end of the trench where an anomalous gold value turned up in a till sample. The bedrock in the zone is intensely to well foliated believed to be ultramafic in origin or magnesium-rich tholeitic. The north part of the zone contains talc schists while the south contains chlorite schists. Small scale quartz veining is present. Another 50 to 60 samples could be cut and collected in this trench. The samples collected from this zone are A22382-85 inclusive.

The channel and grab samples from this phase of the operation have been sent to Bondar-Clegg, Ottawa for multi-element geochemical analysis using neutron activation and the "Gold Plus 33, Option 1" package.

CHANNEL SAMPLING - RESULTS AND CONCLUSIONS

The assay results for the channel samples are contained in Appendix H. Samples A22382-85 which were made in Trench 2D to follow up the gold anomaly in the HMC's have low gold values. This would indicate that the gold in the till had been transported from elsewhere upice. However, since both the HMC's

and the channel samples are anomalous in Cr with a distinctively high As signature, and since ultramafic rocks are not locally abundant to the north or northwest, the gold may have been transported along strike from the east or west as the result of some local perturbation in ice movement.

Interesting mineralization in that portion of the DLZ sampled is limited to 5 samples. In the extreme northwest corner of the zone samples A22352 and 53 are highly anomalous in As while samples A22355 and 56 are slightly anomalous in Sb. Sample A22381 is the only sample with a gold anomaly (approximately 10X background). In addition this sample is enriched in Na with anomalous values in Mo, Sb, Ba and W. The sample was taken above an old trench that had been made through the overburden to the face of the outcrop. The trench is now waterfilled. The sample is a sulphide iron formation which appears to have continuity to the east, but may be cut by faulting a few metres to the west.

The results from both the DLZ and FZ are encouraging in that favourable mineralization is present. Although the mineralization is spotty, so far, it is expected that groundwork in geophysics will be of valuable assistance in determining the extent of such zones. This phase of the programme is now underway.

EXPENDITURES - SUMMARY (Estimate)

TRENCHING:		
Backhoe 13 days @ $350./day	$4,550.00	
Operator 190 hours @ $20./hour	3,800.00	
Truck rental (km & gas) @ $82./day	820.00	$ 9,170.00
TRENCH CLEANING & CHANNEL SAMPLING:		
Water Pump: 5 days @ $60./day	$ 300.00	
Hose & Acc. 5 days @ $44./day	220.00	
Rock saw 3 days @ $40./day	120.00	
Blades 11 @ $10. each	110.00	
Operator(s) 93.5 hours @ $20./hour	1,870.00	
Fuel	70.00	2,690.00
MAPPING & REPORT WRITING:		
Geologist 40 days @ $225./day	$9,000.00	
Truck Rental 20 day @ $77./day	1,540.00	10,540.00
SAMPLES:		
Till Sample Prep'n 51 samples @ $25./sample	$1,275.00	
Till Sample Analysis 51 samples @ $33./sample	1,683.00	
Channel Sample Analysis 35 samples @ $33./sample	1,155.00	4,113.00
TOTAL		$26,513.00

Respectfully submitted

Don B Garner

Don Garner, B.A., B.Sc.

REFERENCES

BURK, RON
October 1987 "Geological Report on the Reeves Joint Venture Property of Goldrock Resources Inc. and Glen Auden Resources Limited, Reeves, Sewell, Penhorwood and Kenogaming Townships. Porcupine Mining Division"

CERTIFICATION

I, Donald B. Garner, B.Sc., of Timmins, Ontario, certify that:

1) I am a graduate of the University of Toronto with a B.Sc. degree in Geology obtained in 1985.

2) I have been practicing my profession in Canada since 1981.

3) I have no direct or indirect interest in the properties, leases or securities of Goldrock Resources Inc. nor Glen Auden Resources Limited, nor do I expect to receive any.

Dated this November 27, 1987
TIMMINS, Ontario

Donald B. Garner, B.Sc.

APPENDIX A

CLAIMS - TRENCHED

DEERFOOT LAKE ZONE	FUCHSITE ZONE
878419	947253
947257	947150
933572	944898
947069	944900
933570	944911
933571	944912
933564	901339
933528	
944882	
933545	
933562	
933565	
932074	
901334	

A P P E N D I X B

DATE Oct. 3/87 HOLE No. TRENCH 1A GEOLOGIST DG DRILLER DS

HOLE LOCATION 20M WEST OF #1 POST CLAIM 878419

BIT No. _____ FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

LENGTH OF TRENCH 25 M N-S. (LEFT OPEN)

DEPTH (FT)	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES
2		No SAMPLES	0'-2' ORGANIC SOIL - buff coloured sandy loam 2' BEDROCK - f.g. well-foliated maf. vol. with carbonate, qtz veining, and ankerite weathering.	
4				

DATE Oct. 3/87 HOLE No. PIT 2A GEOLOGIST DG DRILLER DS

HOLE LOCATION 50M South TRENCH 1A

BIT No. _____ FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

- High Ground, above TRENCH 1A (LEFT OPEN)

DEPTH (FT)	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES
		No SAMPLES	0'-0.5' ORGANIC SOIL - sandy loam	
2			0.5' - BEDROCK - f.g. mafic volcanic	

DATE Oct. 3/87 HOLE No. PIT 3A GEOLOGIST DG DRILLER DS

HOLE LOCATION 400 M WEST OF TRENCH 1A @ 275°

BIT No. _____ FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

- LOW GROUND in alder swamp below 1A (FILLED IN)

DEPTH	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES
0			0-3' HUMUS	
2			3-12' LACUSTRINE SEDS - stratified fine sand, silt and clay with defined coarse sandy seams - dropstones peb. to cob size. - fine sand & silt = 85%.	
4		01		
6		02		
8				
10		03		
12				

DATE Oct. 4/87 HOLE No. PIT 4A GEOLOGIST DG DRILLER DS

HOLE LOCATION 400 M WEST OF PIT 3A

BIT No. _____ FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

High GROUND ABOVE 3A (FILLED-IN)

DEPTH (ft)	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES
2		01	0-12 TILL (SANDY) - Matrix supported (~95%) - Matrix = fine sand & silt - First 0.75m = orange-brown, thereafter buff-coloured. - Compaction increasing with depth. - clasts unsorted ranging from pebs to boulders, subrounded to subangular. - Composition of clasts = granitoids, gneiss, mafic volcanics. - some cobbles completely oxidized. - clay present as irregular masses or finely disseminated throughout.	
4		02		
6		03		
8				
10		04		
12				

DATE Oct. 4/87 HOLE No. PIT 5A GEOLOGIST DG DRILLER DS

HOLE LOCATION 400 M W OF PIT 4A @ 275°

BIT No. _____ FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

- High ground with cedar swamp between it and 4A (- FILLED IN)

DEPTH (FT)	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES
			0'-2' ORGANIC SOIL 0'-0.75' Humus 0.75-2.0 orange sandy loam.	
2			2-11.5 SANDY TILL - fine sand & silt matrix. - V. well compacted. - 50% clasts - clasts peb. to boulder size, rounded to angular, but predominantly angular. - clast composition: 95% f.g. well-foliated maf. vol. with carbonate, sericite, trace sulphides & reddish ankeritic weathering. - no particular orientation to clasts	
4		01		
6		02		
8		03 (03B)	Sample 03B * f.g. well-foliated maf. volc boulder with ankeritic weathering, trace sulphides.	
10		04		
12				

DATE Oct. 5/87 HOLE No. PIT 6A GEOLOGIST DG DRILLER DS.

HOLE LOCATION 400 M WEST OF PIT 5A @ 275°, 30M S.

BIT No. _____ FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

- LOW GROUND. (FILLED IN)

DEPTH (F)	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES
2			0-3' ORGANICS & BOULDERS - large angular boulders, f.g. maf. volcanics & gabbro 3-6 SAND & SILT - no clasts	
4		01	6- TILL - f. to coarse sand, silt & clay. - 50% clasts > 1/4" with occasional boulder. - unsorted. - clasts predly subrounded to subang. - predlly granitoid clasts with some thoroughly oxidized.	
6				
8		02		
10				
12				

DATE Oct 5/87 HOLE No. PIT 7A GEOLOGIST DG DRILLER DS

HOLE LOCATION 800 M W OF 6A @ 275°,

BIT No. _____ FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

- LOW GROUND (FILLED IN)

DEPTH	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES
			0-3 ORGANICS	
			3-12 LACUSTRINE SEDS - fine sand and silt	
2		No SAMPLES		
4				
6				
8				
10				
12				

DATE 08/9/87 HOLE No. PIT 2B GEOLOGIST DG DRILLER DS

HOLE LOCATION 400 M E. of PIT 3B, (70M S. of PIT 3A)

BIT No. _____ FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

LOW GROUND - (FILLED IN)

DEPTH (FT)	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES
2		No SAMPLES	0-3' ORGANICS - humus 3'-12' LACUSTRINE SEDS - fine sand, silt & clay - few dropstones. - defined coarse sandy seams.	
4				
6				
8				
10				
12				

DATE Oct 9/87 HOLE No. PIT 3B GEOLOGIST DG DRILLER DS

HOLE LOCATION 460 M E of 4B (100 M S of 4A)

BIT No. _____ FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

HIGH GROUND (FILLED IN)

DEPTH (FT)	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES
2		01	0-12 TILL - matrix of compacted f. sand, silt & clay: 70% silt & clay brown grey to grey in colour. ~ 10-15% clasts of which 70% maf. vol. - clasts unsorted, peb. to boulder size, subrounded to sub ang. - maf. vol., gabbro & granitoid. - smaller size fraction more angular.	
4		02		
6		03		
8				
10		04		
12				

DATE Oct 8/87 HOLE No. PIT 4B GEOLOGIST DG DRILLER DS

HOLE LOCATION 400M EAST OF PIT 5B (150M S OF LINE A)

BIT No. _____ FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

HIGH GROUND (FILLED IN)

DEPTH (FT)	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES
2			0-2 ORGANIC SOIL - orange sandy loam 2-12 TILL - top 3' unconsolidated, with increasing compaction down hole - matrix - unsorted fine to coarse sand, silt & clay - matrix: clasts = 75:25 - clasts subrounded to subang. 70% peb size, with boulders - clast comp.: 70% f.g. maf. vol. 30% granitoids & rare gabbro - frequency of large clasts decreasing down hole to 95% peb size.	
4		01		
6		02		
8				
10		03		
12				

DATE Oct 8/87 HOLE No. PIT 5B GEOLOGIST DG DRILLER DS

HOLE LOCATION 400 M E of PIT 6B, 25 M S.

BIT No. _____ FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

HIGH GROUND (FILLED IN) - "A" refers to rock sample.

DEPTH	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES
0			0-1 ORGANIC SOIL - orange sandy loam & humus.	
2		01A 01	1-12 TILL - Totally unsorted with clay rich sections & coarse sandy sections. - Matrix = sand, silt & clay ~60% sand, 30% silt, 10% clay. - Clasts: 55% granitoid, 45% f.g. maf. volc. - peb to boulder size. - no particular orientation. - rounded granitoids & ang. maf. volc: massive to foliated, with or without weathered ankeritic rind, with or without sulphides, with silicification & carb. - rare gabbro boulder.	
4				
6		02		
8				
10		03		
12				

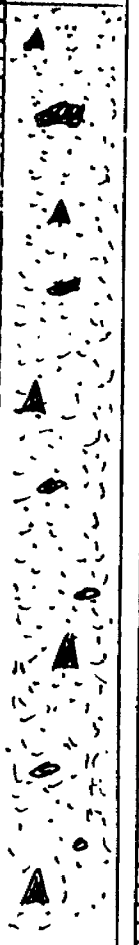
DATE Oct. 6/87 HOLE No. PIT 6B GEOLOGIST DG DRILLER DS

HOLE LOCATION 400 M EAST OF 7B

BIT No. _____ FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

HIGH GROUND (FILLED IN)

DEPTH Ft	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES
0			0-2 ORGANIC SOIL & BOULDERS - boulders = rounded granitoids	
2		01	2-12 SANDY TILL - fine to coarse sandy matrix with silt. - Matrix : clasts = 90:10. - clasts rounded to angular 75% maf. volcanics, 25% granitoids - grain to cobble size. with occasional boulder.	
4				
6		02		
8		03		
10				
12				

DATE Oct. 6/87 HOLE No. PIT 6C GEOLOGIST DG. DRILLER DS

HOLE LOCATION 50M S OF PIT 6B (20M W & 20M S OF POST #2 CL 933529)

BIT No. _____ FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

HIGH GROUND (FILLED IN) (B = rock sample)

DEPTH (Ft)	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES
			0-2 ORGANIC SOIL & BOULDERS - rounded granitoids & angular mafic volcanics	
2		01B	2-12 TILL - coarse to fine sand, silt & a bit of clay. Matrix : clasts = 70:30 - clasts grain to boulder size - rounded granitoids & ang. maf. vol.	
4		01		
6		02	- Sample 01B = f.g. maf. vol. with tr. sulphides, ankerite weathering & carb; well foliated with folding. - clasts & matrix unsorted with no particular orientation - sample 03B = rusty maf. vol. pebs.	
8				
10		03		
		03B		
12				

DATE Oct. 6/87 HOLE No. PIT 7B GEOLOGIST DG DRILLER DS

HOLE LOCATION 55M WEST & 50M S OF FOUR CORNERS (TWP POST)

BIT No. _____ FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

- how GROUND (FILLED IN)

DEPTH	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES
2		No SAMPLES	0-2 ORGANICS (Humus) and BOULDERS - boulders of granite and gneiss (rounded) and maf. volc (angular) with carbonate. - >90% of boulders angular. 2-12 LACUSTRINE SEDS - unconsolidated fine sand silt and a bit of clay - no clasts	
4				
6				
8				
10				
12				

DATE Oct. 7/87 HOLE No. Pit 7C GEOLOGIST DG DRILLER DS

HOLE LOCATION 25 M South of 7B

BIT No. _____ FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

- High ground (filled in) - trenche 15M N-S;

Letters >B refer to rock samples except N+S which are till at N or S end of pit

DEPTH F	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES
2		01B – C – D – E – F – G	0-3 ORGANIC SOIL & BOULDERS - orange to buff coloured sandy loam. - angular boulders of f.g. mafic volc rich in carb., trace sulphides, 1/2" weathered ankeritic rind, some qtz veining; rare gabbro - boulders range up to shed-size. - samples 1C, 1D, 1E taken from V. weathered schistose maf. vol. w 1-2% py. - some boulders have tremolite	
4				
6		02N 02S		
		02B	3-5 LAC. SEDS - f. sand, silt & clay.	
8			5- TILL - well compacted sand, silt & clay. Matrix supported (~50%)	
		03N	- clasts angular maf. vol., f.g., schistose with carb & sulphides. Some pebs reduced to rust spots in pit wall. - no particular orientation	
10			2B = rusty black qtz bld. with visible mineralization; angular.	
12				

DATE 08/15/87 HOLE No. PIT 8B GEOLOGIST DG DRILLER DS

HOLE LOCATION 25 M EAST OF #1 POST, CLAIM 944889.

BIT No. _____ FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

HIGH GROUND (LEFT OPEN)

DEPTH	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES
FT				
			0-2 ORGANIC SOIL	
2			2-6 SANDY TILL - coarse to find sand & silt matrix - buff coloured. - Matrix : clasts = 60:40. - clasts 100% weathered maf. vol : sericite-chlorite schist, peb to cob. size, very ang. & rusted.	
4		01		
6			6- BEDROCK - f.g. maf. vol.	

DATE Oct 5/87 HOLE No. PIT 9B GEOLOGIST DG DRILLER DS

HOLE LOCATION 200M WEST OF 8B, 100 M N.

BIT No. _____ FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

HIGH GROUND (LEFT OPEN)

DEPTH	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES
			0-1 ORGANIC SOIL	
2			1- BEDROCK - schistose maf. vol. with rusty weathering	
4				

DATE Oct 15/87 HOLE No. PIT 9C GEOLOGIST DG DRILLER DS

HOLE LOCATION 200 M WEST OF 8B, 50 M S OF 9B.

BIT No. _____ FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

TRENCHED 25 M N-S (LEFT OPEN)

("N" & "S" refer to ends of trench)

DEPTH (FT)	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES
			0 - 1.5' ORGANIC SOIL - orange sandy loam	
2			1.5' - 3.0' SILT & FINE SAND - with rare pebble.	
4		015 01N	3.0' - 5.0' LODGEMENT TILL - unsorted coarse sand & clay matrix. - matrix : clasts = 30:70 - clasts peb to boulder - clasts >80% sheared maf. volcanics with sericite & up to 1% sulphides, ang. & unsorted. - misc. boulders of gabbro, granitoid & porphyry.	
6			5.0' - BEDROCK - silicified schist with up to 1% sulphides & abundant rusty weathering.	

DATE Oct 1/87 HOLE No. PIT 1D GEOLOGIST DG DRILLER DS

HOLE LOCATION 400 M E. OF TRENCH 2D

BIT No. _____ FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

HIGH GROUND (FILLED IN)

DEPTH	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES
			0-1' ORGANIC SOIL - orange sandy loam.	
2		01	1-12 TILL - Fine sand & silt matrix - Matrix: clasts = 80-90 : 10-20 - clasts sub rounded to sub ang pred'ly maf. volc with some granitoids (80:20) - few clasts completely weathered leaving rust stains in pit wall - unsorted. - clasts peb to bld size.	
4		02		
6				
8		03		
10		04		
12				

DATE 08/10/87 HOLE No. PIT 2D GEOLOGIST DG DRILLER DS

HOLE LOCATION 150M S OF #1 POST, CLAIM 947253

BIT No. _____ FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

TRENCHED 50M N-S (LEFT OPEN)

DEPTH (FT)	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES
2		01 015	0-3 BASAL TILL - regolith, sand, clay & silt with weathered ang. clasts - clasts : matrix = 60:40 - 90% clasts local ultramafic	
4		02	3-7 REGOLITH - weathered bedrock - angular bits of carbonitized chloritized bedrock in a clay-like matrix	
6			7- BEDROCK - soft carbonatized talc-chlorite schist with ankeritic weathering.	
8				

DATE 08/12/87 HOLE No. PIT 3D GEOLOGIST DG DRILLER DS

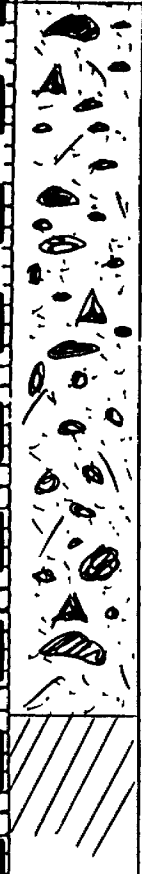
HOLE LOCATION 600 M W OF 2D.

BIT No. _____ FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

HIGH GROUND (LEFT OPEN)

(TRENCHED 20M N-S)

DEPTH (FT)	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES
2		01	0-7' TILL - compacted matrix of coarse to fine sand (70%) silt (20%) + clay (~5%) - oxidized at top of section but grownish grey downhole. ~60% matrix, 40% clasts. - clasts subang & subrounded boulder to peb. size ~80% mafic to ultramafic, 20% granitoid & gabbro.	
4		02		
6				
8				

DATE Oct. 12/87 HOLE No. PIT 4D GEOLOGIST DG DRILLER DS

HOLE LOCATION 400 M WEST OF SD

BIT No. _____ FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

HIGH GROUND (FILLED IN)

DEPTH F	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES
			0-2' LACUSTRINE SEDS - light beige fine sand & silt	
2		01	2-12' TILL - matrix predom. f. sand with silt & minor clay & coarse sand. - matrix : clasts = 60:40 - clasts pred'ly f.g. maf. volc with carb & tr. sulphides; ang. to sub rounded, peb. to bld	
4				
6		02		
8		03		
10		04		
12				

DATE Oct. 13/87 HOLE No. PIT 5-D GEOLOGIST DG DRILLER DS

HOLE LOCATION 400 M W OF 4D

BIT No. _____ FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

TRENCHED 50' N-S (FILLED IN.)

DEPTH	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES
			0-1 ORGANIC SOIL - orange sandy loam.	
2		01N	2-6 SANDY TILL - find sand & silt matrix - matrix : clasts = 60:40	
		01S	- Clasts - bld to peb size, ang. to rounded, 85% maf. volc with carb, ankerite & tr. sulphides.	
4		02N	- 15% clasts granitoids - rounded, remainder ang. maf. volc. - unsorted.	
			6 BEDROCK - fg. maf. volc. with ankerite & carb.; massive.	
8				
10				
12				

DATE Oct. 14/87 HOLE No. Pit 6D GEOLOGIST DG DRILLER DS

HOLE LOCATION 400 M West of Pit 5D

BIT No. _____ FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

High Ground (Filled in)

DEPTH (ft)	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES
		No Samples	0 - 1 ORGANIC SOIL - orange sandy loam. 1 - 8 FINE SAND & SILT - stratified, unconsolidated. - no clasts - hole abandoned due to massive cave-ins.	
2				
4				
6				
8				
10				

DATE Oct. 14/86 HOLE No. PIT 7D GEOLOGIST DG DRILLER DS

HOLE LOCATION 400 M W OF PIT 6D (10 M E OF ROAD)

BIT No. _____ FOOTAGE ON BIT _____

HOURS MOVE _____ HOURS DRILL _____ OTHER _____

LOW GROUND (FILLED IN)

DEPTH (M)	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	ANALYSES
2		No SAMPLES	0-1 ORGANIC SOIL - orange sandy loam 1-12 FINE SAND & SILT - identical to 6D with no clasts.	
4				
6				
8				
10				
12				

A P P E N D I X C

OVERBURDEN EXPLORATION SERVICES LTD.

GOLD GRAIN/MINERALOGICAL REPORT

Company: R. S. Middleton Exploration Services Inc.
Series: PIT

Date: Oct. 26, 1987

Sample No.	Shape	Length (microns)	Width (microns)	Thickness (microns)	H.M.C. Weight (grams)	Est. AU (ppb.)	Other Metallics
1D-01	Abraded grain.	300	200	100	46.01	769	no py., 20% hem., 10% ilmen.
					TOTAL EST. AU -	769	
1D-03							no py., 20% hem., 5% ilmen.
1D-04	Abraded flake.	300	200	20	76.68	92	no py., 20% hem., 10% ilmen.
					TOTAL EST. AU -	92	
2D-01	Regular grain.	200	140	120	28.67	691	no py., tr. sphalerite,
	Abraded grain.	650	500	100	28.67	6,688	5% hem., 10% ilmen.
					TOTAL EST. AU -	7,380	
6A-02	Irregular grain.	1300	180	20	61.74	447	no py., 10% hem., 20% ilmen.
	Irregular flake.	220	200	20	61.74	84	
					TOTAL EST. AU -	531	
6A-03							tr. py., 20% hem., 10% ilmen.
6B-03	Abraded grain (qtz. attached).	500	200	100	105.07	562	tr. py., 20% hem., 10% ilmen.
					TOTAL EST. AU -	562	
6C-01							no py., 20% hem., 10% ilmen.

Company: R. S. Middleton Exploration Services Inc.
Series: PIT

Date: Oct. 26, 1987

Sample No.	Shape	Length (microns)	Width (microns)	Thickness (microns)	H.M.C. Weight (grams)	Est. AU (ppb.)	Other Metallics
7C-02N	'Delicate' grain (qtz. attached).	140	120	30	30.14	99	no py., tr. sphalerite, 10% hem., 20% ilmen.
	'Delicate' grain (qtz. attached).	230	120	20	30.14	108	
					TOTAL EST AU -	207	

A P P E N D I X D

OVERBURDEN EXPLORATION SERVICES LTD.

ESTIMATED AU - BULK ASSAY REPORT

Company: R. S. Middleton Exploration Services Inc.

Date: Nov. 9, 1987

Series: PIT

HOLE	SAMPLE	TBFD	MIH	AU PPB	CONCF	BULKASS	VG
	* *2D-01*	*10.84*	*28.67*	*7380*	*378*	*19.52*	2
	6B-03	22.08	105.07	562	210	2.67	1
	1D-01	14.55	46.01	769	316	2.43	1
	6A-02	22.60	61.74	531	366	1.45	2
	7C-02N	11.79	30.14	207	391	.53	2
	1D-04	16.25	76.68	92	212	.43	1
(unfiltered)	No. - 6		Average	1590		4.51	
			Standard Deviation	2847		7.41	
(filtered)	No. - 5		Average	432		1.50	
			Standard Deviation	277		1.04	

* Italicized figures denotes anomalous sample

A P P E N D I X E

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22353

Date Oct. 29/87
Place SPRK 850W, 275N
Width .75m
Description Intensely foliated chlorite - sericite schist - abund rusting.
Assay For Au
P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22352

Date Oct 29/87
Place (SPRK) 850W, 275N
Width .75m
Description Intensely foliated chlorite schist w. (a-w) streak of white sulphide (well rusted)
Assay For Au
P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22351

Date Oct. 22/87
Place 410W, 75N Sewell Prop
Width
Description maf. vol., mod'ly foliated, ankeritic weathering gtz units
Assay For Au
P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22356

Date Oct. 29/87
Place SPRK 850W, 275N
Width 1.0m
Description Sulphide Facies IF with ~~75~~ 5-8% sulphides in mod-well foliated maf. volc
Assay For Au
P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22355

Date Oct. 29/87
Place SPRK 850W, 275N
Width .75M
Description sericitic schist (well rusted) WZ-3% sulphides (silver?)
Assay For Au
P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22354

Date Oct. 29/87
Place SPRK 850W, 275N
Width .75M
Description Sericitic maf vol (sed?) with chlorite & tr. diss'd (white-silver sulph
Assay For Au
P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22357

Date Oct 30/87
Place SPRK 735W 225-225
Width 1.0 M
Description Intensely foliated maf vol → sericite schist well rusted, 1% diss'd sulphides visible in less altered material
Assay For Au
P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22358

Date Oct 30/87
Place SPRK 735W 225-225
Width 0.75M
Description Well foliated, well rusted, sericite
Assay For

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22361

Date: Oct. 30/87
Place: SPRK 735W 218.5–219.5
Width: 1.0 m
Description: chlorite – sericite schist, well foliated, well rusted, [illegible]
Assay For: Au
P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22360

Date: Oct. 30/87
Place: SPRK 735W 219.5–220.5
Width: 1.0 M
Description: chlorite – sericite schist, well foliated, fairly well rusted, no vis. sulph.
Assay For: Au
P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22359

Date: Oct. 30/87
Place: SPRK 735W, 220.5–221.25
Width: 0.75
Description: Well foliated. Well rusted, sericite schist – no unaltered mat'l to view sulphides
Assay For: Au
P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22364

Date: Oct. 30/87
Place: SPRK 730W 216N
Width: 1m
Description: as 22362
Assay For: Au
P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22363

Date: Oct. 30/87
Place: SPRK 730W 217N
Width: 1m
Description: as 22362
Assay For: Au
P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22362

Date: Oct 30/87
Place: SPRK 730W, 218N
Width: 1M
Description: Well fol'd, rusted, sericite schist [illegible] dk qtz bl.
Assay For: Au
P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22365

Date: Oct 30/87
Place: SPRK 723W, 199N
Width: 0.75M
Description: Chlorite – ser. schist, well foliated fairly well altered, with narrow dk qtz vns & blebs, no visible sulphide
Assay For: Au
P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22366

Date: Oct. 30/87
Place: 722W, 198N [illegible]
Width: 1.0M
Description: Sericitic schist with abund [illegible] qtz
Assay For: [illegible]

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22369

Date: Oct 30/87
Place: 597W, 150N SPRK
Width: 1.0 M
Description: Sericitic chlorite schist well to intensely folded, minor rusty weathering
Assay For: Au

P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22368

Date: Oct. 30/87
Place: SPRK 697W, 200N
Width: 1.0 M
Description: as 22368
Assay For:

P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22367

Date: Oct. 30/87
Place: SPRK, 692W, 204N
Width: 1.0 M
Description: Chlorite schist, well fol'd, fairly well [illegible] [illegible] veining no visible [illegible]
Assay For: Au

P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22372

Date: Oct. 30/87
Place: 0.5 M
Width: 602W 81.5N SPRK
Description: Mod'ly foliated maf. volc. with [illegible] ~1% sulphides [illegible] some sericite + chl.
Assay For: Au

P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22371

Date: Oct. 30/87
Place: SPRK 597W 154N
Width: 1.0 m
Description: Chlorite schist, intensely foliated with occasional qtz blebs
Assay For: Au

P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22370

Date: Oct. 30/87
Place: SPRK 597W 157N
Width: 1 M
Description: as 22369
Assay For: Au

P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22373

Date: [illegible] 30 87
Place: SPRK 602W, 81N
Width: 0.5
Description: Intensely foliated, well weathered schist
Assay For: Au

P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22374

Date: Oct. 30/87
Place: SPRK 602W, 80.5N
Width: 0.5
Description: Mod'ly fol'd maf. volc. with some [illegible]
Assay For:

P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22377

Date: Oct 30/87
Place: SPRK 499W 126N
Width: 0.5M
Description: DK quartz [illegible] intensely altered pinch + swell 1-2% sulphides
Assay For: Au
P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22376

Date: Oct. 30/87
Place: SPRK 600W, 75N
Width: 1.0 M
Description: Sulphide I F ~1-2% sulphides, carb, & silicification
Assay For: Au
P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22375

Date: Oct. 30/87
Place: SPRK 601W, 77N
Width: 1.0 M
Description: Chlorite sericite schist with rusty weather well foliated.
Assay For:
P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22380

Date: Oct. 30/87
Place: SPRK 482W, 124N
Width: 1.0M
Description: Well foliated country rock to 22379 - maf volc. qtz blebs
Assay For: Au
P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22379

Date: Oct 30/87
Place: SPRK 482W, 125N
Width: 1.0m
Description: ~~Well~~ Intensely foll'd maf. volc., 1-2% sulphides, rusty weathered surface
Assay For: Au
P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22378

Date: Oct. 30/87
Place: SPRK 125N 499W
Width: 1.0 M
Description: Well foliated maf. volc with ~1% sulphides & [illegible] qtz veins
Assay For: Au
P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22383

Date: [illegible]
Place: 12M S. of N. END of TRENCH 2D
Width: 1m
Description: Talc- seric[illegible] schist – [illegible] foliated with some qtz
Assay For: Au

P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22382

Date: OCT. 30/87
Place: SPRK 1m from N END of TRENCH 2D
Width: 1m
Description: Well weathered ultramafic a mafic – with ankerite vein & talc.
Assay For: Au

P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22381

Date: Oct 30/87
Place: SPRK 481 12N
Width: 1.0M
Description: Well weathered, well foliated sulph facies IF
Assay For: Au

P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22385

Date: Oct 30/87
Place: 51m S. of N. END of TRENCH 2D
Width: 0.75M.
Description: Talc-chlorite schist, intensely foliated with minor Qtz veins
Assay For: Au

P.A.P. 10775

BELL-WHITE LABS
Haileybury, Ontario

Sample A 22384

Date: OCT. 30/87
Place: 12M S. of N. [illegible] of TRENCH 2D
Width: 1m
Description: Talc- sericite schist intensely foliated
Assay For: Au

P.A.P. 10775

A P P E N D I X F

OVERBURDEN EXPLORATION SERVICES LTD.

REPORT DATE: Oct. 26, 1987
CLIENT: R. S. Middleton Exploration Services Inc.
SERIES: PIT

	Kg.(wet)		Grams (dry)						
Sample No.	Bulk	+10 Mesh	Table Feed	Table Conc.	Mags.	NonMags.	M.I.Lites	M.I.H.	Con.F.
1A-01	21.74	1.66	20.08	105.91	9.40	96.51	55.68	40.83	492
1D-01	18.70	4.15	14.55	150.98	20.61	130.37	84.36	46.01	316
1D-02	17.04	2.08	14.96	209.15	31.21	177.94	96.80	81.14	184
1D-03	15.25	1.81	13.44	144.31	19.59	124.72	81.40	43.32	310
1D-04	17.74	1.49	16.25	229.03	24.29	204.74	128.06	76.68	212
2D-01	16.89	6.05	10.84	108.98	25.25	83.73	55.06	28.67	378
2D-01S	15.06	4.05	11.01	63.43	15.31	48.12	30.80	17.32	636
2D-02	17.31	6.44	10.87	33.15	6.35	26.80	15.09	11.71	928
3A-02	16.00	2.02	13.98	80.15	7.96	72.19	43.90	28.29	494
3A-03	16.79	2.16	14.63	104.25	8.73	95.52	61.39	34.13	429
3B-01	18.44	1.15	17.29	96.87	8.12	88.75	55.12	33.63	514
3B-02	16.34	.64	15.70	180.94	10.66	170.28	141.27	29.01	541
3B-03	13.27	.72	12.55	67.65	6.14	61.51	37.09	24.42	514
3B-04	16.73	.93	15.80	65.99	6.32	59.67	38.06	21.61	731
3DW-01	12.18	3.16	9.02	86.50	20.53	65.97	46.41	19.56	461
3DW-02	14.67	2.47	12.20	124.50	21.91	102.59	64.06	38.53	317
4A-01	16.51	.90	15.61	58.77	4.18	54.59	33.69	20.90	747
4A-02	13.01	.49	12.52	48.20	5.78	42.42	23.22	19.20	652
4A-03	14.10	.78	13.32	98.95	7.86	91.09	58.59	32.50	410
4A-04	13.95	.66	13.29	70.93	6.48	64.45	39.89	24.56	541
4B-01	12.74	1.67	11.07	128.48	16.55	111.93	69.57	42.36	261
4B-02	13.55	.72	12.83	93.36	9.16	84.20	56.39	27.81	461
4B-03	15.00	.90	14.10	59.63	8.46	51.17	29.13	22.04	640
4D-01	15.80	2.51	13.29	162.52	16.15	146.37	108.01	38.36	346
4D-02	14.35	2.19	12.16	123.92	14.24	109.68	58.94	50.74	240
4D-03	16.76	3.28	13.48	104.41	15.61	88.80	45.21	43.59	309
4D-04	17.60	2.40	15.20	75.30	15.02	60.28	28.79	31.49	483
5A-01	9.91	1.88	8.03	46.77	9.71	37.06	21.64	15.42	521
5A-02	13.05	3.50	9.55	59.23	15.57	43.66	24.85	18.81	508
5A-03	14.37	3.08	11.29	67.38	13.96	53.42	33.38	20.04	563
5A-04	15.18	3.58	11.60	101.85	18.47	83.38	54.90	28.48	407
5B-01	14.65	1.36	13.29	130.61	15.59	115.02	75.59	39.43	337
5B-02	13.34	.87	12.47	34.95	4.17	30.78	19.40	11.38	1096
5B-03	14.39	1.37	13.02	37.65	5.06	32.59	22.83	9.76	1334
5D-01N	17.36	3.07	14.29	104.33	15.32	89.01	51.87	37.14	385
5D-01S	18.08	2.42	15.66	95.39	16.31	79.08	38.98	40.10	391
5D-02N	17.74	2.65	15.09	102.40	16.39	86.01	44.04	41.97	360
6A-01	15.73	.01	15.72	142.36	9.63	132.73	96.02	36.71	428
6A-02	29.09	6.49	22.60	170.93	35.87	135.06	73.32	61.74	366
6A-03	19.14	4.58	14.56	160.94	26.09	134.85	83.48	51.37	283
6B-01	16.68	2.24	14.44	126.74	19.12	107.62	62.14	45.48	318
6B-02	16.17	1.38	14.79	131.46	18.56	112.90	64.96	47.94	309

1) M.I.H. = Final non-magnetic heavy mineral concentrate.

2) Con.F. = Concentration factor.

OVERBURDEN EXPLORATION SERVICES LTD.

REPORT DATE: Oct. 26, 1987
CLIENT: R. S. Middleton Exploration Services Inc.
SERIES: PIT

Sample No.	Kg.(wet) Bulk	+10 Mesh	Grams (dry) Table Feed	Table Conc.	Mags.	NonMags.	M.I.Lites	M.I.H.	Con.F.
6B-03	23.90	1.82	22.08	222.51	31.52	190.99	85.92	105.07	210
6C-01	18.47	1.37	17.10	124.22	17.22	107.00	68.66	38.34	446
6C-02	22.46	1.98	20.48	200.02	21.87	178.15	117.34	60.81	337
6C-03	20.54	2.35	18.19	142.42	22.13	120.29	73.18	47.11	386
7C-02N	15.24	3.45	11.79	74.09	12.44	61.65	31.51	30.14	391
7C-02S	18.17	3.23	14.94	52.67	9.41	43.26	22.94	20.32	735
7C-03N	14.44	3.15	11.29	61.32	11.92	49.40	24.60	24.80	455
8B-01	14.68	3.01	11.67	24.54	1.91	22.63	15.00	7.63	1529
9C-01N	16.53	7.27	9.26	52.63	7.56	45.07	28.50	16.57	559
9C-01S	17.56	4.72	12.84	109.94	17.04	92.90	57.78	35.12	366
							Average -	35.00	492
							Standard - Deviation	18.49	259

1) M.I.H. = Final non-magnetic heavy mineral concentrate.

2) Con.F. = Concentration factor.

APPENDIX G

Bondar-Clegg & Company Ltd.
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BONDAR-CLEGG

Geochemical Lab Report

M-223

ROBERT S. MIDDLETON EXPL. SERV.
J. NEWSOME
BOX 1637
TIMMINS. ONTARIO
P4N 7W8

Bondar-Clegg & Company Ltd.
54 Cantwell Rd.,
Ottawa, Ontario,
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Telex 053 3233

BONDAR-CLEGG

Geochemical Lab Report

REPORT: 017-6084 (COMPLETE)

REFERENCE INFO:

CLIENT: ROBERT S. MIDDLETON EXPL. SERV.

SUBMITTED BY: J.W. NEWSOME

PROJECT: M-223

DATE PRINTED: 25-NOV-87

ORDER		ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Na	Sodium	54	0.05 PCT		Neutron Activation
2	Sc	Scandium	54	0.5 PPM		Neutron Activation
3	Cr	Chromium	54	50 PPM		Neutron Activation
4	Fe	Iron	54	0.5 PCT		Neutron Activation
5	Co	Cobalt	54	10 PPM		Neutron Activation
6	Ni	Nickel	54	50 PPM		Neutron Activation
7	Zn	Zinc	54	200 PPM		Neutron Activation
8	As	Arsenic	54	1 PPM		Neutron Activation
9	Se	Selenium	54	10 PPM		Neutron Activation
10	Br	Bromine	54	1 PPM		Neutron Activation
11	Rb	Rubidium	54	10 PPM		Neutron Activation
12	Zr	Zirconium	54	500 PPM		Neutron Activation
13	Mo	Molybdenum	54	2 PPM		Neutron Activation
14	Ag	Silver	54	5 PPM		Neutron Activation
15	Cd	Cadmium	54	10 PPM		Neutron Activation
16	Sn	Tin	54	200 PPM		Neutron Activation
17	Sb	Antimony	54	0.2 PPM		Neutron Activation
18	Te	Tellurium	54	20 PPM		Neutron Activation
19	Cs	Cesium	54	1 PPM		Neutron Activation
20	Ba	Barium	54	100 PPM		Neutron Activation
21	La	Lanthanum	54	5 PPM		Neutron Activation
22	Ce	Cerium	54	10 PPM		Neutron Activation
23	Sm	Samarium	54	0.1 PPM		Neutron Activation
24	Eu	Europium	54	2 PPM		Neutron Activation
25	Tb	Terbium	54	1 PPM		Neutron Activation
26	Yb	Ytterbium	54	5 PPM		Neutron Activation
27	Lu	Lutetium	54	0.5 PPM		Neutron Activation
28	Hf	Hafnium	54	2 PPM		Neutron Activation
29	Ta	Tantalum	54	1 PPM		Neutron Activation
30	W	Tungsten	54	2 PPM		Neutron Activation
31	Ir	Iridium	54	100 PPB		Neutron Activation
32	Au	Gold	54	5 PPB		Neutron Activation
33	Th	Thorium	54	0.5 PPM		Neutron Activation
34	U	Uranium	54	0.5 PPM		Neutron Activation
35	WT	Test Weight	54	0.01 g		

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Geochemical Lab Report

ORT 017-6084 (COMPLETE)

REFERENCE INFO:

ENT: ROBERT S. MIDDLETON EXPL. SERV.
JEC M-223

SUBMITTED BY: J.W. NEWSOME
DATE PRINTED: 25-NOV-87

SAMPLE TYPES	NUMBER
HEAVY MINERAL CONC.	54

SIZE FRACTIONS	NUMBER
-200	54

SAMPLE PREPARATIONS	NUMBER
AS RECEIVED, NO SP	52

REMARKS: < MEANS LESS THAN

REPORT COPIES TO: J. NEWSOME

INVOICE TO: J. NEWSOME

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Geochemical Lab Report

REPORT 017-6084

PROJECT: M-223 PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Na PCT	Sc PPM	Cr PPM	Fe PCT	Co PPM	Ni PPM	Zn PPM	As PPM	Se PPM	Br PPM	Rb PPM	Zr PPM
1A-01		<0.27	85.3	680	1.38	20.0	45	.09	<50	210	<5	.01	<10	<5	<10	10000
1D-01		<0.37	84.2	940	2.97	22.0	44	.14	<50	240	<6	.02	<10	<5	<22	14000
1D- A		<0.30	85.2	810	4.40	22.0	41	.22	<50	240	<5	.03	<10	<5	<10	10000
1D-02 B		<0.45	91.7	840		21.0	50		<58	<200	<9		<10	<5	<32	6000
1D-3		<0.37	93.1	930	3.00	23.0	52	.17	<50	280	8	.03	<10	<5	<22	13000
1D-		<0.27	81.6	650	3.07	19.0	36	.17	<50	<200	<5	.02	<10	<5	<10	9500
2D-01		<0.26	72.0	26300	60.58	24.0	190	.50	220	680	197	.52	<10	<5	<21	6200
2D- S		<0.41	79.0	20100	31.60	27.0	160	.25	110	560	77	.12	<10	<5	<27	12000
2D-		<0.44	80.6	19000	20.47	23.0	160	.17	110	470	118	.13	<10	<5	<29	12000
3A-2		<0.39	79.3	600	1.21	19.0	35	.07	<50	260	<7	.01	<10	<5	<22	14000
3A-		<0.22	75.6	580	1.35	17.0	39	.09	<50	<200	<4	.01	<10	<5	<10	10000
3B-1		<0.30	92.5	910	1.77	22.0	36	.07	<50	<200	<5	.01	<10	<5	<10	14000
3B-2		<0.26	88.7	770	1.42	20.0	38	.07	<50	<200	<4	.01	<10	<5	15	12000
3B-		0.31	88.2	770	1.50	20.0	36	.07	<50	<200	<5	.01	<10	<5	<10	11000
3B-		<0.32	94.1	920	1.26	22.0	43	.06	<50	210	<5	.01	<10	<5	<10	14000
3D		<0.26	98.9	1500	3.25	21.0	73	.16	110	<200	19	.04	<10	<5	<10	14000
3D-2		<0.20	103.0	2000	6.31	23.0	70	.22	62	260	16	.05	<10	<5	17	9400
4A-1		<0.33	98.1	1100	1.47	24.0	33	.04	<50	240	6	.01	<10	6	<10	15000
4A-		<0.32	93.4	780	1.20	22.0	37	.06	<50	200	<5	.01	<10	<5	<10	15000
4A-		<0.30	90.1	670	1.63	20.0	39	.10	<50	<200	<5	.01	<10	<5	<10	12000
4A-4		<0.32	93.8	740	1.37	21.0	43	.08	<50	<200	<5	.01	<10	<5	<10	13000
4B		<0.28	96.2	820	3.14	23.0	48	.18	<50	210	<5	.02	<10	<5	<10	13000
4B-2		0.51	98.2	770	1.67	23.0	47	.10	<50	220	<5	.01	<10	<5	<10	13000
4B-3		0.51	98.8	880	1.38	24.0	41	.06	<50	<200	<6	.01	<10	<5	<10	15000
4D-		<0.26	101.0	860	2.49	24.0	70	.20	<50	<200	<5	.01	<10	<5	<10	11000
4D-2		0.29	85.8	610	2.54	19.0	58	.24	<50	<200	6	.03	<10	<5	<10	8300
4D-		<0.25	104.0	770	2.49	24.0	78	.25	59	240	<5	.02	<10	<5	17	11000
4D-		<0.31	95.9	860	1.78	24.0	85	.18	<50	<200	15	.03	<10	<5	<10	15000
5A-1		<0.36	86.4	760	1.46	21.0	110	.21	50	<200	11	.02	<10	<5	<10	14000
5A-		<0.34	75.4	600	1.18	19.0	110	.22	59	210	17	.03	<10	<5	<10	12000
5A-3		<0.37	86.8	690	1.23	22.0	110	.20	<50	240	11	.02	<10	<5	<10	14000
5A-4		0.56	92.8	750	1.84	22.0	130	.32	<50	280	12	.03	<10	<5	17	12000
5B-		0.27	87.1	700	2.08	20.0	38	.11	<50	<200	<4	.01	<10	<5	<10	11000
5B-2		0.39	86.6	800	0.73	20.0	37	.03	<50	<200	<6	.01	<10	<5	<10	11000
5B-3		<0.36	86.6	810	0.61	21.0	34	.03	<50	<200	<7	.01	<10	<5	<10	12000
5B- N		<0.23	88.7	670	1.74	21.0	58	.15	<50	<200	5	.01	<10	<5	<10	8000
5D-01S		<0.26	91.2	730	1.87	22.0	58	.15	<50	220	7	.02	<10	<5	<10	12000
5D- 2N		<0.23	84.4	580	1.61	20.0	61	.17	<50	<200	5	.01	<10	<5	12	9500
6A-		0.45	77.0	600	1.40	18.0	38	.09	50	<200	<5	.01	<10	<5	<10	19000
6A-2		<0.25	81.7	660	1.80	21.0	46	.13	<50	<200	<4	.01	<10	<5	15	9000

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Geochemical Lab Report

[illegible] 017-6084

PROJECT: M-223 PAGE 1B

SAMPLE NUMBER	ELEMENT UNITS	Mo PPM	Ag PPM	Cd PPM	Sn PPM	Sb PPM	Te PPM	Cs PPM	Ba PPM	La PPM	Ce PPM	Sm PPM	Eu PPM
1A-01		<5	<5	<10	<200	0.3 .0006	<20	<1	<100	430	800	64.6	3
1D[illegible]01		<7	<5	<24	<200	<0.2 .0006	<48	<1	<100	606	1090	73.4	4
1D-02		<7	<5	<20	<200	<0.2 .001	<41	<1	<100	530	990	71.7	4
1D-02 A		<7	<5	<20	<200	<0.2 .001	<62	<2	<100	340	640	41.0	5
1D-02 B		<7	<14	<33	<200	<0.2 .001	<62	<2	<100	340	640	41.0	5
1D[illegible]3		<7	<10	<24	<200	0.4 .0012	<48	<1	<100	560	1030	70.5	5
1D-4		<7	<5	<10	<200	<0.2 .0009	<20	<1	<100	390	760	58.7	4
2[illegible]01		<6	<5	<21	<200	3.8 .01	<46	<1	<100	270	500	35.0	4
2[illegible]01S		<7	<12	<28	<200	4.5 .007	<57	<1	<100	400	720	49.0	3
2D-02		<7	<13	<31	<200	3.5 .004	<61	<1	260	360	680	48.0	6
3[illegible]2		<6	<5	<24	<200	0.2 .0004	<48	<1	<100	480	860	65.9	3
3A-3		<4	<5	<10	200	0.2 .0004	<20	<1	<100	370	670	53.2	4
3B-1		<5	<5	<10	<200	<0.2 .0004	<60	<1	<100	644	1150	75.5	5
3[illegible]2		<4	<5	<10	<200	1.0 .002	<36	<1	<100	460	850	58.0	4
3[illegible]3		<4	<5	<10	<200	0.3 .0006	<20	<1	<100	470	890	59.8	6
3B-4		<5	<5	<10	280	0.3 .0004	<20	<1	<100	592	1100	72.9	6
3[illegible]-1		<2	<5	<10	<200	3.1 .007	<20	<1	<100	350	690	50.1	5
3DW-2		<4	<5	<10	<200	1.5 .005	<20	<1	<100	390	750	56.0	5
4[illegible]1		<5	<5	<10	<200	0.3 .0004	<42	<1	<100	613	1100	69.4	3
4[illegible]2		<5	<5	<10	260	0.3 .0005	<20	<1	<100	542	1000	68.1	4
4A-3		<5	<5	<10	250	0.3 .0007	<20	<1	<100	480	870	72.1	6
4[illegible]4		<5	<5	<10	250	0.4 .0007	<20	<1	<100	530	990	70.5	5
4B-1		<5	<5	<10	<200	0.2 .0008	<48	<1	<100	549	1010	70.5	4
4B-2		<5	<5	<10	240	0.2 .0004	<20	<1	<100	518	970	66.1	4
4[illegible]3		<5	<5	<20	<200	<0.2 .0003	<20	<1	<100	642	1170	76.7	3
4[illegible]1		<4	<5	<10	<200	0.4 .001	<20	<1	<100	440	790	57.5	4
4[illegible]2		<2	<5	<10	<200	0.6 .003	<26	<1	<100	320	620	51.1	5
4[illegible]3		<4	<5	<10	<200	0.7 .002	<20	<1	<100	420	790	60.5	6
4D-4		<5	<5	<10	210	0.8 .002	<20	<1	<100	538	940	68.6	4
5[illegible]1		<2	<5	<21	280	0.3 .0006	<20	<1	<100	450	840	62.8	4
5[illegible]2		<5	<5	<10	290	0.4 .0008	<20	<1	<100	420	770	58.1	6
5A-3		<5	<5	<20	<200	<0.2 .0004	<20	<1	<100	556	1010	66.2	6
5[illegible]4		<4	<5	<10	<200	0.4 .001	<20	<1	<100	460	860	58.9	5
5B-1		<4	<5	<10	<200	<0.2 .0006	<20	<1	<100	420	820	58.6	6
5B-2		<5	<5	<21	<200	0.2 .0002	<20	<1	<100	450	850	51.8	4
5[illegible]3		7	<5	<23	<200	0.3 .0002	<41	<1	<100	480	940	55.8	4
5B-01N		<2	<5	<10	<200	0.4 .001	<28	<1	<100	340	650	47.0	3
5[illegible]D-01S		<4	<5	<10	250	0.6 .002	<20	<1	<100	440	820	58.0	5
5[illegible]D-02N		<2	<5	<10	<200	0.5 .001	<20	<1	100	350	680	52.2	4
6A-1		<5	<5	<10	<200	0.4 .0009	<20	<1	<100	555	1050	83.5	6
6[illegible]A-2		<5	<5	<10	<200	<0.2 .0005	<20	<1	<100	410	780	58.1	4

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REPO : 017-6084 | PROJECT: M-223 | PAGE 1C

SAMPLE NUMBER	ELEMENT UNITS	Tb PPM	Yb PPM	Lu PPM	Hf PPM	Ta PPM	W PPM	Ir PPB	Au PPB	Th PPM	U PPM	WT g
1A-01		9	23	4.0	203	11	<14	<100	<12	191.0	23.0	40.53
1 01		8	26	5.0	263	13	<18	<100	605	263.0	27.0	45.69
1 02 A		8	26	5.4	222	12	<16	<100	150	211.0	25.0	73.35
1D-02 B		7	26	4.0	130	10	<27	<100	67	158.0	14.0	8.32
1D-3		8	26	5.5	257	13	20	<100	180	239.0	27.0	43.27
1 4		7	22	4.5	190	9	<14	<100	330	143.0	21.0	76.34
2D-01		5	15	3.2	120	7	18	<100	3100	107.0	12.0	28.83
2 01S		7	22	4.3	242	9	<23	<100	1280	177.0	19.0	17.13
2 02		7	24	4.2	219	9	<26	<100	260	163.0	18.0	11.36
3A-2		9	26	4.7	265	13	<19	<100	200	221.0	26.0	28.15
3 3		7	21	3.8	190	9	<12	<100	<10	155.0	18.0	34.08
3B-1		9	28	5.5	297	13	<15	<100	350	273.0	29.0	33.36
3B-2		8	27	4.6	237	10	<13	<100	25	194.0	21.0	28.92
3 3		8	27	4.9	238	9	<13	<100	61	196.0	22.0	24.26
3 4		9	29	5.4	293	13	<16	<100	92	255.0	26.0	21.99
3 -1		7	24	4.6	278	9	<15	<100	360	143.0	18.0	19.21
3 -2		8	24	4.9	200	10	<13	<100	738	151.0	19.0	38.73
4A-1		9	30	5.5	304	12	<16	<100	59	274.0	27.0	20.79
4 2		9	30	5.1	293	11	<16	<100	19	239.0	25.0	19.10
4 3		9	25	4.5	246	12	<16	<100	18	210.0	26.0	32.34
4 4		9	27	5.1	267	11	<16	<100	210	231.0	26.0	24.38
4 1		9	27	5.5	272	12	<14	<100	65	239.0	27.0	42.13
4B-2		9	31	5.3	250	15	<15	<100	29	226.0	24.0	27.42
4B-3		9	31	5.5	279	13	29	<100	140	297.0	27.0	21.94
4 1		8	26	4.8	206	11	<14	<100	2010	185.0	20.0	38.13
4D-2		7	22	4.0	170	9	<11	<100	44	121.0	17.0	50.75
4 3		8	26	4.9	218	12	<14	<100	250	170.0	21.0	43.30
4 4		9	27	5.2	287	13	<15	<100	280	246.0	26.0	31.27
5A-1		8	26	4.2	266	11	<18	<100	67	218.0	24.0	15.30
5 2		7	22	3.8	229	10	<17	190	82	199.0	22.0	18.68
5A-3		8	28	4.7	274	12	<17	<100	220	241.0	25.0	20.35
5 4		8	27	4.8	237	11	<16	<100	250	182.0	22.0	28.26
5 1		7	24	5.0	233	10	<13	<100	140	174.0	22.0	39.28
5B-2		7	26	4.5	220	9	<19	<100	<14	201.0	18.0	11.28
5B-3		7	23	4.8	219	11	<20	<100	160	218.0	18.0	9.69
5 01N		7	23	4.3	170	9	<13	<100	220	143.0	17.0	36.91
5D-01S		7	26	4.6	235	10	<13	<100	120	186.0	22.0	40.08
5 02N		7	23	4.2	180	9	<12	<100	180	153.0	18.0	41.93
6 1		10	26	4.9	384	12	<16	<100	36	233.0	36.0	36.27
6A-2		7	22	4.3	180	10	<12	<100	350	167.0	19.0	62.17

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BONDAR CLEGG

Geochemical Lab Report

ORT: 017-6084

PROJECT: M-223 PAGE 2A

PLE BER	ELEMENT UNITS	Na PCT	Sc PPM	Cr PPM	Fe PCT	Co PPM	Ni PPM	Zn PPM	As PPM	Se PPM	Br PPM	Rb PPM	Zr PPM
6A-		<0.28	85.5	700	2.47	21.0	48	<50	210	<4	.01 <10	<5	<10	12000
6B-		<0.27	92.1	800	2.52	22.0	37	<50	<200	<4	.01 <10	<5	<10	9500
6B-2		<0.25	87.1	690	2.23	20.0	36	<50	<200	5	.02 <10	<5	<10	9500
6B-	A	<0.24	92.1	700	3.33	22.0	43	<50	270	<4	.02 <10	<5	<10	8900
6B-	B	0.33	85.9	670		20.0	37	<50	200	<4	<10	<5	<10	7700
6C-1		<0.37	95.8	940	2.11	23.0	42	<50	230	<6	.01 <10	<5	<10	15000
6C-		<0.26	90.4	740	2.20	22.0	43	<50	<200	<4	.01 <10	<5	<10	11000
6C-3		<0.32	78.3	750	1.94	20.0	39	<50	<200	<5	.01 <10	<5	19	14000
7C-02N		<0.32	79.6	650	1.66	22.0	200	<50	<200	44	.11 <10	<5	<10	8300
7C-	2S	<0.36	89.5	710	0.97	24.0	190	86	<200	41	.06 <10	<5	<10	11000
7C-03N		<0.27	89.9	750	1.65	24.0	210	55	<200	47	.10 <10	<5	<10	7400
8B-		<0.48	64.7	580	0.38	33.0	310	180	330	137	.09 <10	<5	<25	11000
9C-	1N	<0.38	98.6	820	1.47	24.0	110	51	<200	22	.04 <10	<5	<10	11000
9C-01S		<0.32	87.0	730	1.99	21.0	66	<50	<200	15	.04 <10	<5	<10	15000

N = 52
$\bar{x}$ = 4.20
σ = 10.46
$\bar{x}$ + 2σ = 25.12

N = 52
$\bar{x}$ = .16
σ = .11
$\bar{x}$ + 2σ = .38

$\bar{x}$ = .04
N = 52
σ = .07
$\bar{x}$ + 2σ = .19

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Geochemical Lab Report

REPORT: 017-6084 | PROJECT: M-223 | PAGE 2B

SAMPLE NUMBER	ELEMENT UNITS	Mo PPM	Ag PPM	Cd PPM	Sn PPM	Sb PPM	Te PPM	Cs PPM	Ba PPM	La PPM	Ce PPM	Sm PPM	Eu PPM
6A-3		<5	<5	<10	<200	0.3	<43	<1	<100	480	890	65.3	5
6B-1		<4	<5	<10	<200	<0.2	<20	<1	<100	440	780	55.2	4
6B-2		<4	<5	<10	<200	0.3	<20	<1	<100	420	780	54.3	4
6B-03 A		<5	<5	<10	<200	<0.2	<35	<1	<100	410	780	58.1	4
6B-03 B		<2	<5	<10	<200	0.7	<20	<1	110	360	660	48.0	3
6C-1		<5	<5	<10	<200	0.3	<20	1	<100	675	1230	82.7	4
6C-2		<5	<5	<10	<200	<0.2	<20	<1	<100	450	850	63.7	5
6C-3		<5	<5	<10	<200	0.3	<20	<1	<100	544	970	74.9	5
7C-02N		3	<5	<10	<200	1.0	<20	<1	<100	340	670	52.2	5
7C-02S		<4	<5	<10	300	1.2	<20	<1	<100	390	710	49.0	5
7C-03N		<2	<5	<10	<200	1.0	<20	<1	210	370	680	47.0	5
8B-01		3	<5	<28	<200	2.6	<50	<1	<100	360	650	43.0	5
9C-01N		<5	<5	<21	<200	0.9	<20	<1	<100	390	740	52.8	5
9C-01S		<5	<5	<10	370	0.7	<20	<1	110	503	880	64.0	6

N = 52
$\bar{x}$ = .002
σ = .002
$\bar{x}$ + 2σ = .005

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BONDAR-CLEGG

Geochemical Lab Report

PO# 117-6084

PROJECT: M-223 PAGE 2C

SAMPLE NUMBER	ELEMENT UNITS	Tb PPM	Yb PPM	Lu PPM	Hf PPM	Ta PPM	W PPM	Ir PPB	Au PPB	Th PPM	U PPM	WT g
6A-3		8	24	5.4	242	11	<13	<100	210.74	190.0	24.0	51.54
6B		7	25	4.8	200	11	<14	<100	170.53	188.0	21.0	45.26
6B-2		7	24	4.6	190	10	<13	<100	21.07	171.0	19.0	48.07
6B-03 A		7	22	4.7	170	9	<13	<100	29.11	162.0	19.0	67.94
6B-03 B		6	21	4.1	150	9	<13	<100	24	153.0	16.0	36.79
6C-1		10	28	5.8	303	17	<17	<100	350.78	300.0	30.0	38.06
6C-2		8	24	4.9	216	11	<13	<100	61.18	179.0	23.0	60.58
6C-3		9	23	4.6	270	12	<14	<100	220.57	254.0	29.0	47.12
7C-02N		7	20	3.6	170	9	<17	<100	2900 7.42	138.0	17.0	29.97
7C-02S		7	26	4.4	212	8	<18	<100	300.41	145.0	18.0	20.54
7C-03N		7	24	4.2	150	8	<17	<100	738 1.62	133.0	13.0	24.81
8B-01		7	23	4.0	236	7	<24	<100	220.14	145.0	17.0	7.65
9-01N		7	27	4.5	220	10	<20	<100	250.48	157.0	17.0	16.47
9-01S		9	27	5.0	285	12	<16	<100	300.82	204.0	25.0	34.65

$N = 52$
$\bar{x} = .89$
$s = 1.65$
$\bar{x} + 2s = 4.19$

A P P E N D I X H

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Geochemical Lab Report

PORT 017-6384 (COMPLETE)

REFERENCE INFO:

IENT ROBERT S. MIDDLETON EXPL. SERV.
OJE : M-223

SUBMITTED BY: D. GARNER
DATE PRINTED: 1-DEC-87

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Na	Sodium	35	0.05 PCT		Neutron Activation
2	Sc	Scandium	35	0.5 PPM		Neutron Activation
3	Cr	Chromium	35	50 PPM		Neutron Activation
4	Fe	Iron	35	0.5 PCT		Neutron Activation
5	Co	Cobalt	35	10 PPM		Neutron Activation
6	Ni	Nickel	35	50 PPM		Neutron Activation
7	Zn	Zinc	35	200 PPM		Neutron Activation
8	As	Arsenic	35	1 PPM		Neutron Activation
9	Se	Selenium	35	10 PPM		Neutron Activation
10	Br	Bromine	35	1 PPM		Neutron Activation
11	Rb	Rubidium	35	10 PPM		Neutron Activation
12	Zr	Zirconium	35	500 PPM		Neutron Activation
13	Mo	Molybdenum	35	2 PPM		Neutron Activation
14	Ag	Silver	35	5 PPM		Neutron Activation
15	Cd	Cadmium	35	10 PPM		Neutron Activation
16	Sn	Tin	35	200 PPM		Neutron Activation
17	Sb	Antimony	35	0.2 PPM		Neutron Activation
18	Te	Tellurium	35	20 PPM		Neutron Activation
19	Cs	Cesium	35	1 PPM		Neutron Activation
20	Ba	Barium	35	100 PPM		Neutron Activation
21	La	Lanthanum	35	5 PPM		Neutron Activation
22	Ce	Cerium	35	10 PPM		Neutron Activation
23	Sm	Samarium	35	0.1 PPM		Neutron Activation
24	Eu	Europium	35	2 PPM		Neutron Activation
25	Tb	Terbium	35	1 PPM		Neutron Activation
26	Yb	Ytterbium	35	5 PPM		Neutron Activation
27	Lu	Lutetium	35	0.5 PPM		Neutron Activation
28	Hf	Hafnium	35	2 PPM		Neutron Activation
29	Ta	Tantalum	35	1 PPM		Neutron Activation
30	W	Tungsten	35	2 PPM		Neutron Activation
31	Ir	Iridium	35	100 PPB		Neutron Activation
32	Au	Gold	35	5 PPB		Neutron Activation
33	Th	Thorium	35	0.5 PPM		Neutron Activation
34	U	Uranium	35	0.5 PPM		Neutron Activation
35	WT	Test Weight	35	0.01 g		

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Geochemical Lab Report

ORT[illegible]017-6384 (COMPLETE)

REFERENCE INFO:

ENT[illegible] ROBERT S. MIDDLETON EXPL. SERV.
JEC[illegible] M-223

SUBMITTED BY: D. GARNER
DATE PRINTED: 1-DEC-87

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
ROCK	35	-200	35	CRUSH,PULVERIZE -200	35

REMARKS: < MEANS LESS THAN

REPORT COPIES TO: DON GARNER

INVOICE TO: DON GARNER

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Geochemical Lab Report

REPO: 017-6384 | PROJECT: M-223 | PAGE 1A

SAMP JMB	ELEMENT UNITS	Na PCT	Sc PPM	Cr PPM	Fe PCT	Co PPM	Ni PPM	Zn PPM	As PPM	Se PPM	Br PPM	Rb PPM	Zr PPM
A 22351		1.10	31.0	370	7.8	53	100	<200	77	<10	<5	14	<500
A 22352		1.10	17.0	190	12.0	16	<50	300	260	<10	<5	36	<500
A 22353		1.70	26.0	270	10.0	23	56	330	250	<10	<5	44	<500
A 22354		1.40	22.0	250	9.3	21	53	310	15	<10	<5	29	<500
A 22355		0.86	16.0	170	19.0	63	91	210	38	<10	<5	26	<500
A 22356		1.00	17.0	190	18.0	55	69	220	27	<10	<5	24	<500
A 22357		0.78	30.0	210	11.0	44	73	330	24	<10	<5	50	<500
A 22358		0.83	45.0	190	12.0	55	88	240	27	<10	<5	41	<500
A 22359		1.40	39.0	240	10.0	62	110	<200	49	<10	<5	45	<500
A 22360		1.40	37.0	270	9.0	56	82	<200	38	<10	<5	44	<500
A 22361		1.60	37.0	320	7.7	70	95	<200	62	<10	<5	40	<500
A 22362		1.10	34.0	290	9.0	56	100	<200	43	<10	<5	65	<500
A 22363		1.40	41.0	280	8.8	65	140	<200	55	<10	<5	48	<500
A 22364		1.60	42.0	300	10.0	68	110	200	49	<10	<5	49	<500
A 22365		1.50	37.0	330	8.0	82	130	<200	11	<10	<5	85	<500
A 22366		0.82	30.0	410	8.1	48	99	<200	6	<10	<5	41	<500
A 22367		1.70	42.0	300	8.2	100	150	230	64	<10	<5	53	<500
A 22368		1.60	37.0	280	7.3	77	160	<200	29	<10	<5	40	<500
A 22369		1.60	32.0	260	7.8	47	68	270	15	<10	<5	30	<500
A 22370		1.40	27.0	310	7.3	45	120	240	13	<10	<5	50	<500
A 22371		1.60	16.0	240	7.3	49	70	590	3	<10	<5	44	510
A 22372		1.60	73.6	150	13.0	78	76	270	43	<10	<5	26	<500
A 22373		1.40	42.0	120	11.0	58	63	<200	4	<10	<5	17	<500
A 22374		1.40	47.0	140	13.0	59	<50	<200	13	<10	<5	28	670
A 22375		1.70	18.0	120	6.3	33	<50	310	15	<10	<5	38	<500
A 22376		0.44	12.0	120	12.0	29	<50	390	3	<10	<5	17	<500
A 22377		0.48	11.0	380	3.5	20	<50	220	7	<10	9	11	<500
A 22378		1.60	35.0	440	6.5	53	71	<200	40	<10	<5	27	<500
A 22379		1.20	23.0	140	12.0	49	<50	380	22	<10	<5	39	<500
A 22380		1.40	36.0	470	9.0	53	110	<200	54	<10	<5	13	<500
A 22381		3.30	24.0	280	13.0	20	<50	330	114	<10	<5	54	<500
A 22382		0.28	10.0	3800	6.0	72	1200	<200	650	<10	<5	<10	<500
A 22383		0.25	5.9	1200	5.8	77	1400	<200	635	<10	<5	<10	<500
A 22384		0.21	10.0	1500	6.4	130	2180	<200	265	<10	<5	<10	<500
A 22385		0.14	17.0	1600	6.1	74	660	<200	27	<10	<5	<10	<500

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Geochemical Lab Report

REPORT [redacted]017-6384

PROJECT: M-223 PAGE 1B

SAMPLE NUMBER	ELEMENT UNITS	Mo PPM	Ag PPM	Cd PPM	Sn PPM	Sb PPM	Te PPM	Cs PPM	Ba PPM	La PPM	Ce PPM	Sm PPM	Eu PPM
A 22351		2	<5	<10	<200	0.4	<20	<1	<100	<5	<10	2.2	<2
A 22[redacted]52		2	<5	<10	<200	1.1	<20	<1	130	13	24	2.7	<2
A 22353		<2	<5	<10	<200	1.3	<20	2	250	14	27	3.3	<2
A 22354		<2	<5	<10	<200	1.0	<20	<1	180	14	27	3.0	<2
A 22[redacted]55		4	<5	<10	<200	2.1	<20	<1	<100	10	25	2.3	<2
A 22356		4	<5	<10	<200	2.1	<20	1	<100	10	21	2.3	<2
A 22[redacted]57		<2	<5	<10	<200	0.7	<20	1	350	7	16	2.3	<2
A 22[redacted]58		<2	<5	<10	<200	0.4	<20	1	260	<5	<10	1.6	<2
A 22359		<2	<5	<10	<200	0.6	<20	1	350	<5	<10	1.6	<2
A 22360		<2	<5	<10	<200	0.6	<20	2	380	<5	<10	1.5	<2
A 22[redacted]61		<2	<5	<10	<200	0.6	<20	1	330	<5	11	1.6	<2
A 22362		<2	<5	<10	<200	0.6	<20	2	460	<5	<10	1.5	<2
A 22[redacted]63		<2	<5	<10	<200	0.6	<20	2	390	<5	10	1.8	<2
A 22[redacted]64		<2	<5	<10	<200	0.5	<20	1	330	<5	10	1.6	<2
A 22365		<2	<5	<10	<200	0.6	<20	2	650	<5	12	1.5	<2
A 22[redacted]66		2	<5	<10	<200	0.5	<20	1	330	<5	15	1.5	<2
A 22367		<2	<5	<10	<200	0.6	<20	2	370	<5	10	1.7	<2
A 22[redacted]68		<2	<5	<10	<200	0.6	<20	2	360	<5	<10	1.5	<2
A 22[redacted]69		<2	<5	<10	<200	0.8	<20	<1	310	<5	<10	1.7	<2
A 22370		<2	<5	<10	<200	0.6	<20	2	500	8	<10	2.5	<2
A 22[redacted]71		<2	<5	<10	<200	1.1	<20	2	330	16	36	3.0	2
A 22372		<2	<5	<10	<200	0.8	<20	1	170	6	15	3.4	<2
A 22373		<2	<5	<10	<200	0.5	<20	<1	160	<5	15	2.1	<2
A 22[redacted]74		<2	<5	<10	<200	0.6	<20	<1	170	8	17	3.4	<2
A 22[redacted]75		<2	<5	<10	<200	0.7	<20	<1	280	12	26	2.8	<2
A 22[redacted]76		<2	<5	<10	<200	0.5	<20	<1	110	9	16	2.0	<2
A 22[redacted]77		<2	<5	<10	<200	0.4	<20	<1	210	<5	<10	1.0	<2
A 22378		<2	<5	<10	<200	0.8	<20	<1	240	<5	<10	2.3	<2
A 22[redacted]79		3	<5	<10	<200	0.7	<20	1	260	9	17	3.0	<2
A 22[redacted]80		<2	<5	<10	<200	0.7	<20	<1	<100	<5	12	2.3	<2
A 22[redacted]81		91	<5	<10	<200	3.7	<20	1	410	9	12	1.8	<2
A 22[redacted]82		<2	<5	<10	<200	0.8	<20	<1	<100	<5	<10	<0.5	<2
A 22383		3	<5	<10	<200	0.8	<20	<1	<100	<5	<10	<0.5	<2
A 22384		<2	<5	<10	<200	2.7	<20	<1	<100	<5	<10	<0.5	<2
A 22[redacted]85		<2	<5	<10	<200	0.9	<20	<1	<100	<5	<10	0.7	<2

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[redacted]x: 053-3233

BONDAR-CLEGG

Geochemical Lab Report

REPOR[redacted] 017-6384

PROJECT: M-223 PAGE 1C

SAMPL[redacted] NUMBE[redacted]	ELEMENT UNITS	Tb PPM	Yb PPM	Lu PPM	Hf PPM	Ta PPM	W PPM	Ir PPB	Au PPB	Th PPM	U PPM	WT %
A 22351		<1	<5	<0.5	<2	<1	4	<100	<5	<0.5	<0.5	11.60
A [redacted]352		<1	<5	<0.5	3	<1	<2	<100	8	1.9	<0.5	10.83
A 22353		<1	<5	<0.5	3	<1	<2	<100	8	2.0	<0.5	8.61
A 22354		<1	<5	<0.5	3	<1	<2	<100	<5	1.8	<0.5	8.30
A [redacted]355		<1	<5	<0.5	3	<1	<2	<100	12	1.6	<0.5	12.03
A 22356		<1	<5	<0.5	4	<1	<2	<100	10	1.5	<0.5	10.65
A [redacted]357		<1	<5	<0.5	2	<1	4	<100	23	0.9	<0.5	11.55
A [redacted]358		<1	<5	<0.5	<2	<1	<2	<100	12	<0.5	<0.5	11.31
A 22359		<1	<5	<0.5	<2	<1	<2	<100	6	<0.5	<0.5	9.11
A [redacted]360		<1	<5	<0.5	<2	<1	<2	<100	11	<0.5	<0.5	11.26
A 22361		<1	<5	<0.5	<2	<1	<2	<100	12	<0.5	<0.5	9.16
A 22362		<1	<5	<0.5	<2	<1	<2	<100	9	<0.5	<0.5	9.00
A [redacted]363		<1	<5	<0.5	<2	<1	<2	<100	<5	<0.5	<0.5	7.89
A 22364		<1	<5	<0.5	<2	<1	<2	<100	7	<0.5	<0.5	8.45
A 22365		<1	<5	<0.5	<2	<1	7	<100	28	<0.5	<0.5	9.01
A [redacted]366		<1	<5	<0.5	<2	<1	<2	<100	8	<0.5	<0.5	9.70
A 22367		<1	<5	<0.5	<2	<1	<2	<100	9	<0.5	<0.5	9.15
A [redacted]368		<1	<5	<0.5	<2	<1	<2	<100	10	0.6	<0.5	8.17
A [redacted]369		<1	<5	<0.5	<2	<1	2	<100	6	<0.5	<0.5	9.78
A 22370		<1	<5	<0.5	2	<1	2	<100	8	0.9	<0.5	9.07
A [redacted]371		<1	<5	<0.5	2	<1	4	<100	27	1.9	<0.5	10.35
A 22372		<1	<5	0.6	4	<1	<2	<100	<5	0.5	<0.5	8.95
A [redacted]373		<1	<5	<0.5	3	<1	2	<100	<5	<0.5	<0.5	10.51
A [redacted]374		1	<5	0.5	<2	<1	<2	<100	<5	<0.5	<0.5	8.02
A 22375		<1	<5	<0.5	2	<1	<2	<100	<5	1.6	<0.5	10.23
A [redacted]376		<1	<5	<0.5	<2	<1	<2	<100	<5	0.9	<0.5	9.33
A [redacted]377		<1	<5	<0.5	<2	<1	2	<100	<5	<0.5	<0.5	12.47
A 22378		<1	<5	<0.5	<2	<1	8	<100	<5	<0.5	<0.5	8.74
A [redacted]379		<1	<5	0.5	4	<1	4	<100	41	0.8	<0.5	10.15
A [redacted]380		<1	<5	<0.5	<2	<1	<2	<100	7	0.6	<0.5	8.91
A [redacted]381		<1	<5	<0.5	3	<1	10	<100	120	1.3	<0.5	10.40
A [redacted]382		<1	<5	<0.5	<2	<1	3	<100	6	<0.5	<0.5	8.89
A 22383		<1	<5	<0.5	<2	<1	<2	<100	<5	<0.5	<0.5	11.21
A [redacted]384		<1	<5	<0.5	<2	<1	<2	<100	<5	<0.5	<0.5	9.17
A [redacted]385		<1	<5	<0.5	<2	<1	<2	<100	16	<0.5	<0.5	9.48

A P P E N D I X I

MIN-EN LABORATORIES LTD.
Specialists in Mineral Environments
705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE:(604)980-5814 OR (604)988-4524 TELEX:VIA USA 7601067 UC

Analytical Report

Company:MIDDLETON EXPL.SERVICES
Project:M-223
Attention:J.W.NEWSOME

File:82-5
Date:JAN 10/88
Type:TILL ASSAY

Date Samples Received :JAN 9/88
Samples Submitted by :J.W.NEWSOME

Report on ..... Geochem Samples
.....
.....34..... Assay Samples
.....

Copies sent to:
1. MIDDLETON EXPL.SERVICES, C/O J. LAITIN, TIMMINS, ONT.
2.
3.

Samples: Sieved to mesh ..... Ground to mesh .....

Prepared samples stored:.....X.... discarded:.....
rejects stored:.....X.... discarded:.....

Methods of analysis:

AU-FIRE ASSAY.

Remarks

MIN-EN LABORATORIES LTD.

Specialists in Mineral Environments
705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604)980-5814 OR (604)988-4524 TELEX: VIA USA 7601067 UC

Certificate of ASSAY

Company: MIDDLETON EXPL. SERVICES
Project: M-223
Attention: J.W. NEWSOME

File: 82-5/P1
Date: JAN 10/88
Type: TILL ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AU G/TONNE	AU OZ/TON
1D-01-80	.19	0.006
1D-01-250	.18	0.005
1D-02-80	.03	0.001
1D-02-250	.04	0.001
2D-01-80	.03	0.001
2D-01-250	.12	0.004
2D-01S-80	.07	0.002
2D-01S-250	.14	0.004
3DW-01-80	.18	0.005
3DW-01-250	.03	0.001
4D-01-80	.09	0.003
4D-01-250	.02	0.001
4D-02-80	.03	0.001
4D-02-250	.01	0.001
4D-03-80	.02	0.001
4D-03-250	.01	0.001
4D-04-80	.01	0.001
4D-04-250	.02	0.001
6A-01-80	.03	0.001
6A-01-250	.02	0.001
6A-02-80	.01	0.001
6A-02-250	.05	0.001
6A-03-80	.04	0.001
6A-03-250	.02	0.001
6C-01-80	.01	0.001
6C-01-250	.01	0.001
7C-02N-80	.02	0.001
7C-02N-250	.03	0.001
7C-03N-80	.02	0.001
7C-03N-250	.03	0.001

Certified by ____________

MIN-EN LABORATORIES LTD.

MIN-EN LABORATORIES LTD.

Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE:(604)980-5814 OR (604)988-4524 TELEX:VIA USA 7601067 UC

Certificate of Assay

Company:MIDDLETON EXPL. SERVICES
Project:M-223
Attention:J.W.NEWSOME

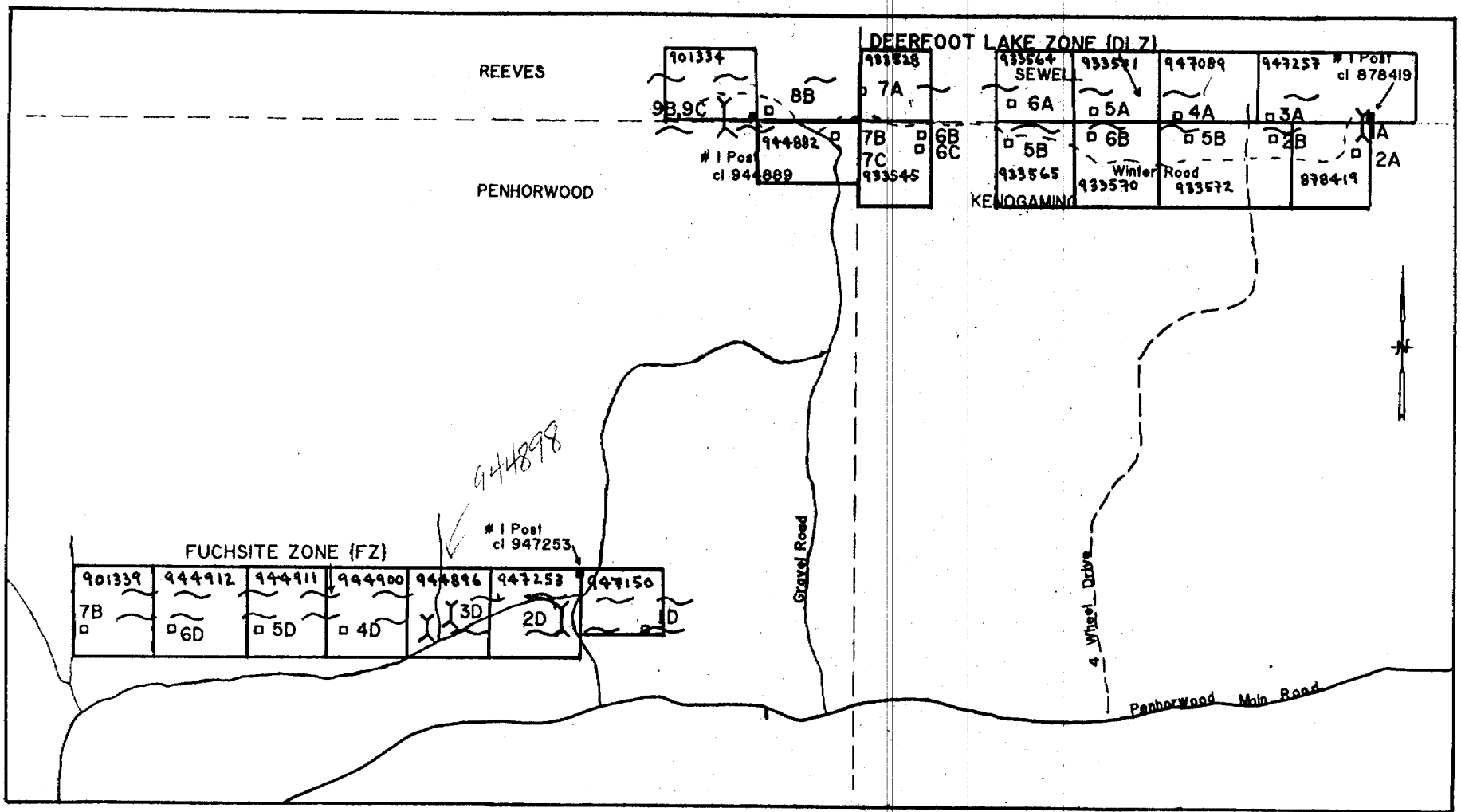
File:82-5/P2
Date:JAN 10/88
Type:TILL ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AU G/TONNE	AU OZ/TON
9C-015-80	.02	0.001
9C-015-250	.03	0.001
3DW-02-80	.04	0.001
3DW-02-250	.02	0.001

Certified by _____

MIN-EN LABORATORIES LTD.


DEEFOOT LAKE ZONE (DLZ)
REEVES
PENHORWOOD
901334
9B,9C
8B
1 Post
cl 944889
944892
7A
7B
7C
6B
6C
933545
933564
SEWELL
933571
947089
947257
1 Post
cl 878419
6A
5A
4A
3A
5B
6B
5B
2B
1A
2A
933565
933570
Winter Road
933572
878419
KENOGAMING
944898
1 Post
cl 947253
FUCHSITE ZONE (FZ)
901339
944912
944911
944900
944896
947253
947150
7B
6D
5D
4D
3D
2D
1D
Gravel Road
4 wheel Drive
Penhorwood Main Road
N
LEGEND
Pit
Trench
Claim Post
Alteration Zone
901334 Claim Number
Township Boundary
SCALE
0 200M

Ministry of Northern Development Mines

Ontario

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

DOCUMENT W8800

#007 2.10983

42A04NW0016 2.10983 REEVES

900

Type of Survey(s): Assaying/Geochem	Township or Area: Reeves, Sewell, Kenogaming, Penhorwood
Claim Holder(s): Glen Auden Resources Limited	Prospector's Licence No.: T-1915
Address: P.O. Box 1637, Timmins, Ont. P4N 7W8	
Survey Company: R.S. Middleton Exploration Services Inc.	Date of Survey (from & to): 01 Day | 10 Mo. | 87 Yr. — 15 Day | 11 Mo. | 87 Yr.
Total Miles of line Cut: N/A	
Name and Address of Author (of Geo-Technical report): D. Garner P.O. Box 1637 Timmins, Ont. P4N 7W8	

Credits Requested per Each Claim in Columns at right

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

RECEIVED JAN 12 1988 Mining Lands Section

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

CANCELLED BB

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

JAN 11 1988 MINING ACT 85-1(C)

Expenditures (excludes power stripping)

Type of Work Performed: Assaying/Sampling

Performed on Claim(s): P-878419, P-901339, P-933545, P-933564, P-933565, P-933570, P-933571, P-933572, P-944898, P-944900, P-944911, P-944912, P-947069, P-947150, P-947253, P-947257

Calculation of Expenditure Days Credits

Total Expenditures			=	Total Days Credits
$ 3331.72	÷	15	=	222

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.

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P	944887	15
	947131	57
	947266	15
	949111	15
	950272	60
	950273	60

RECEIVED FEB 03 1988 MINING LANDS SECTION

RECEIVED MAR 30 1988 MINING LANDS SECTION

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

RECORDED JAN 12 1988

Total number of mining claims covered by this report of work: 6

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
222	JAN 12/88	D. White
	Date Approved as Recorded	Branch Director
	See Statement AB	

Date	Recorded Holder or Agent (Signature)
12.01.88	

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	Date Certified	Certified by (Signature)
Dan Farrow P.O. Box 1637 Timmins, Ont. P4N 7W8	12.01.88	

CLAIMS - TRENCHED

DEERFOOT LAKE ZONE

878419
947257
933572
947069
933570
933571
933564
933528
944882
933545
933562
933565
932074
901334

FUCHSITE ZONE

947253
947150
944898
944900
944911
944912
901339

Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

May 31, 1988

Your file: W8806-007
Our File: 2.10983

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE
JUN 6 1988
RECEIVED

Mining Recorder
Ministry of Northern Development and Mines
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

RE: Data for Assaying submitted under Section 77(19) of the Mining Act R.S.O. 1980 on Mining Claims P901334 et al in the Townships of Reeves, Sewell, Kenogaming & Penhorwood

The enclosed statement of assessment work credits for assaying has been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

W.R. Cowan, Manager
Mining Lands Section
Mines and Minerals Branch

Whitney Block, Room 6610
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

AB:pl
Enclosure (2)

cc: Resident Geologist
Timmins, Ontario

Glen Auden Resources Limited
P.O. Box 1637
Timmins, Ontario
P4N 7W8

Ministry of Northern Development and Mines

Ontario

Technical Assessment Work Credits

File: 2.10983

Date: May 31, 1988

Mining Recorder's Report of Work No.: W8806-007

AMENDED

Recorded Holder: Glen Auden Resources Limited

Township ~~or Area~~: Reeves, Sewell, Kenogaming and Penhorwood

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	$3,331.72 SPENT ON ASSAYING SAMPLES TAKEN FROM MINING CLAIMS:
Electromagnetic _____ days	P 901334
Magnetometer _____ days	944882
Radiometric _____ days	933528
Induced polarization _____ days	933545
Other _____ days	933564-65
Section 77 (19) See "Mining Claims Assessed" column	933570-71-72
Geological _____ days	947089
Geochemical _____ days	947257
Man days ☐ Airborne ☐	878419
Special provision ☐ Ground ☐	901339
☐ Credits have been reduced because of partial coverage of claims.	944911-12
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	944900
	944898
	947253
	947150
	222 DAYS CREDIT ALLOWED WHICH MAY BE GROUPED IN ACCORDANCE WITH SECTION 76(6) OF THE MINING ACT R.S.O. 1980.

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

☐ not sufficiently covered by the survey ☐ insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

828 (85/12)

REFERENCE

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+ S. – MINING AND SURFACE RIGHTS

	Description	Order No.	Date	Disposition	File
(R)	400' RESERVE			S.R.O.	135537
(R)	SEC. 43/70 W 91/72		27/12/72	S.R.O.	163006 V.2
(R)	SEC. 36/80		11/7/81	S.R.O.	135537
(R)	ORDER OF THE MINISTER #33/87 DATED MARCH 30/87 WITHDRAWS MINING AND SURFACE RIGHTS UNDER SECTION 36 OF THE MINING ACT,RSO 1980				

SAND AND GRAVEL

(G)	GRAVEL	FILE	38729
(G)	GRAVEL PIT	FILE	13555 V.6
(G)	GRAVEL	FILE	106274
(Q)	QUARRY PERMIT # 22805 ISSUED FOR THE REMOVAL OF QUARTZ JULY 1, 1987		
(Q)	QUARRY PERMIT # 22808 ISSUED FOR THE REMOVAL OF QUARTZ SEPT. 10, 1987.		

NOTES

FLOODING RIGHTS ON HORWOOD LAKE RESERVED TO ONTARIO HYDRO TO CONTOUR ELEVATION 117' ... L.O. 7746

REEVES TWP.

KEITH TWP.

KENOGAMING TWP.

HARDIMAN TWP.

L. Mooney O.L.S. 1921

LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
  - TOWNSHIPS, BASE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" , SURFACE RIGHTS ONLY	⊖
" , MINING RIGHTS ONLY	⊖
LEASE, SURFACE & MINING RIGHTS	■
" , SURFACE RIGHTS ONLY	⊟
" , MINING RIGHTS ONLY	⊟
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	(R)
CANCELLED	⊗
SAND & GRAVEL	(G)
LAND USE PERMIT	*

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC 1.

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000

METRES 0 200 1000 (1 KM) 2000 (2 KM)

RECEIVED
APR 13 1988

TOWNSHIP

PENHORWOOD

M.N.R. ADMINISTRATIVE DISTRICT

CHAPLEAU

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

SUDBURY

Ontario Ministry of Natural Resources — Land Management Branch

Date MARCH 1985

checked June 14/85 L.P. L.H.

Number G-3244

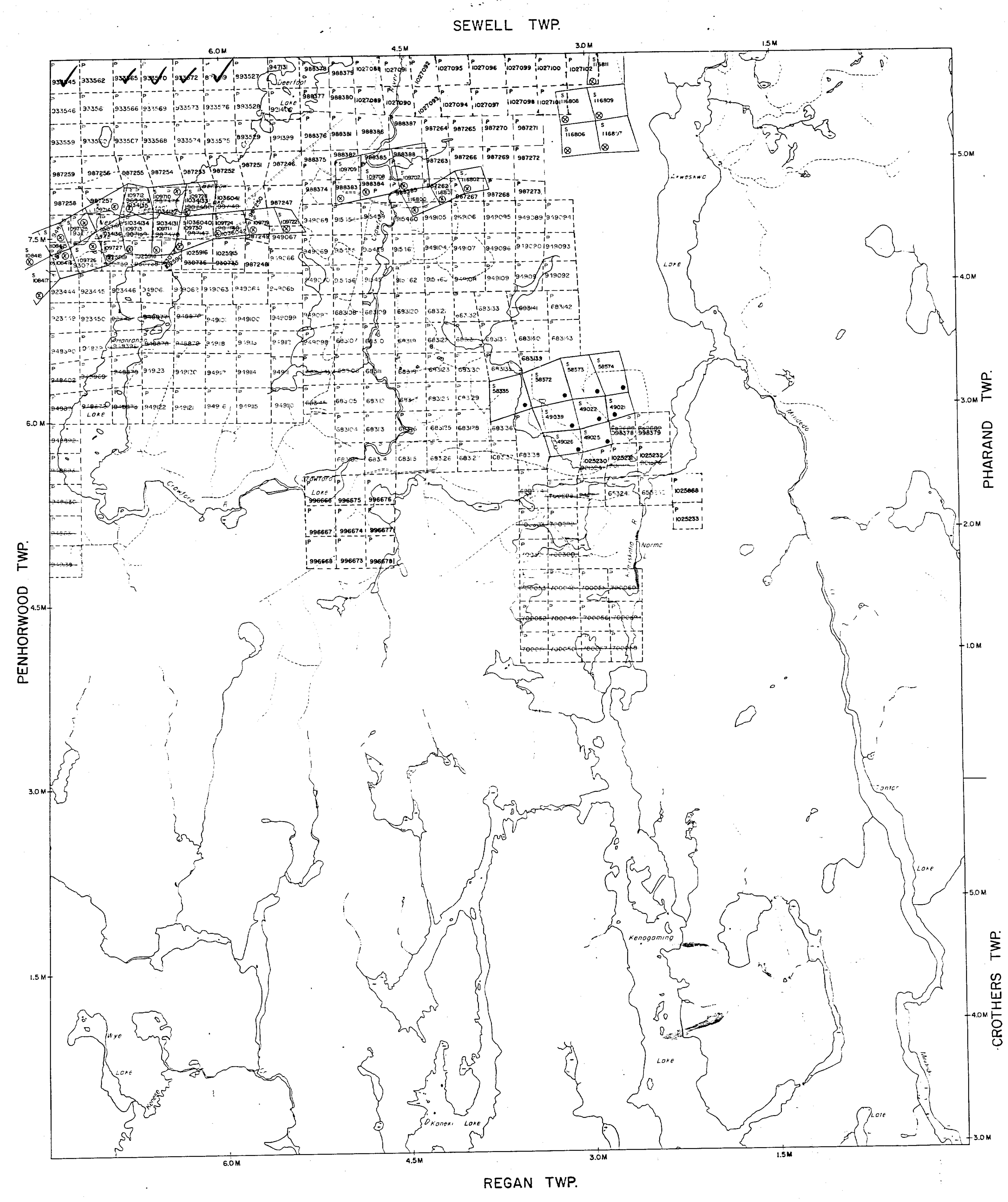
42A04NW0016 2.10983 REEVES

REFERENCE

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+ S. – MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File



LEGEND

HIGHWAY AND ROUTE No.
OTHER ROADS
TRAILS
SURVEYED LINES:
TOWNSHIPS, BASE LINES, ETC.
LOTS, MINING CLAIMS, PARCELS, ETC.
UNSURVEYED LINES
LOT LINES
PARCEL BOUNDARY
MINING CLAIMS ETC.
RAILWAY AND RIGHT OF WAY
UTILITY LINES
NON-PERENNIAL STREAM
FLOODING OR FLOODING RIGHTS
SUBDIVISION OR COMPOSITE PLAN
RESERVATIONS
ORIGINAL SHORELINE
MARSH OR MUSKEG
MINES
TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" , SURFACE RIGHTS ONLY	◓
" , MINING RIGHTS ONLY	◒
LEASE, SURFACE & MINING RIGHTS	■
" , SURFACE RIGHTS ONLY	⬒
" , MINING RIGHTS ONLY	⬓
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	⊛
CANCELLED	⊗
SAND & GRAVEL	⊙

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1000 (1 KM) 2000 (2 KM)

TOWNSHIP

KENOGAMING

M.N.R. ADMINISTRATIVE DISTRICT

TIMMINS

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

SUDBURY

Ontario — Ministry of Natural Resources — Land Management Branch

Date: APRIL 1985

RECEIVED APR 22/87

Number: G-3239

42A04NW0016 2.10983 REEVES

210

REFERENCES

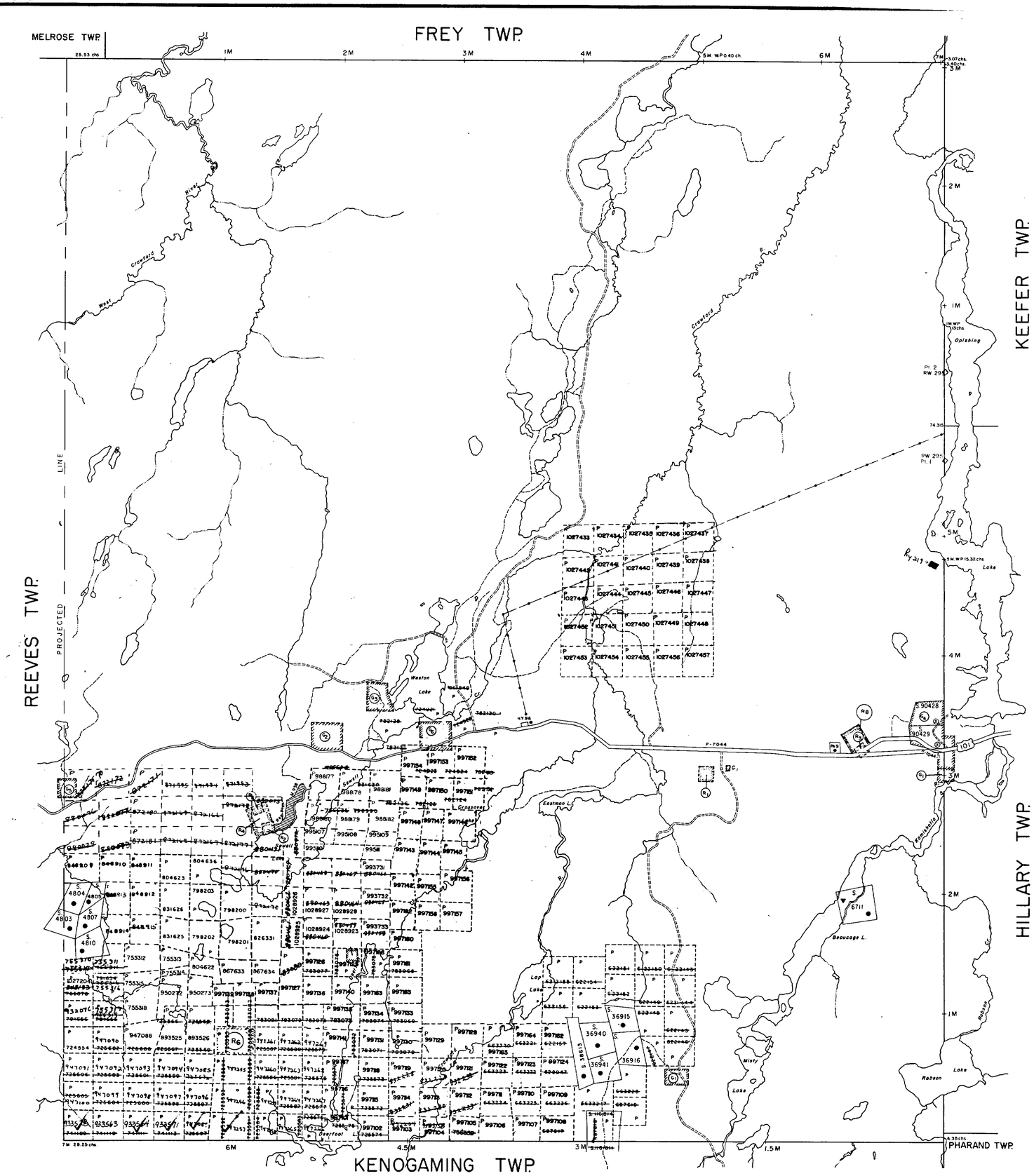
AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+S. – MINING AND SURFACE RIGHTS

	Description	Order No.	Date	Disposition	File
(R1)	SEC 43/70	W. 30/77	11/3/77	S.R.O.	135748
(R2)	SEC 43/70	W. 19/78	10/4/78	S.R.O. = M.R.O.	188543
(R3)	SEC 43/70	W. 10/78	14/11/78	S.R.O.	135748
(R4)	DUMP ATTENUATION ZONE				
(R5)	SEC 36/80	W. 46/83	14/8/83	M. + S.	
(R6)	Not open for staking AWAITING INSPECTION 71/86				
(R7)	"FILED ONLY" D-26/86				
(R8)	NOT OPEN FOR STAKING - BONA FIDE APPLICATION UNDER PUBLIC LANDS ACT PENDING 21/01/87				

SAND AND GRAVEL

(G1)	GRAVEL	FILE	135748	
(G2)	M.T.C.	PIT	1577	
(G3)	M.T.C.	PIT	3M-1	FILE 135748
(G4)	M.T.C.	PIT	1576	
(G5)	M.T.C.	PIT	3M-2	FILE 184702
(G6)	M.T.C.	PIT	1243	



LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
  - TOWNSHIPS, BASE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" , SURFACE RIGHTS ONLY	◓
" , MINING RIGHTS ONLY	◒
LEASE, SURFACE & MINING RIGHTS	■
" , SURFACE RIGHTS ONLY	◨
" , MINING RIGHTS ONLY	◧
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	(R)
CANCELLED	⊗
SAND & GRAVEL	(G)

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC 1.

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1000 (1 KM) 2000 (2 KM)

RECEIVED
APR 26 1988

TOWNSHIP

SEWELL

M.N.R. ADMINISTRATIVE DISTRICT

TIMMINS

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

SUDBURY

Ministry of Natural Resources — Land Management Branch — Ontario

Date MARCH, 1985

Number G-3247

42A04NW8816 2.10983 REEVES

MELROSE TP. M.861

MUSKEGO TP. M.881

SEWELL TP. M.1102

PENHORWOOD TP. M.1055

THE TOWNSHIP OF REEVES

DISTRICT OF SUDBURY

PORCUPINE MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

PATENTED LAND	● or (P)
CROWN LAND SALE	C.S.
LEASES	(L)
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
PATENTED S.R.O.	

NOTES

400' surface rights reservation along the shores of all lakes and rivers

Areas withdrawn from staking under Section 43 of the Mining Act (R.S.O. 1970)

Order No.	File	Date	Disposition
(43)	163002	27-7-72	S R & M R

(S) S.R.O. withdrawn from staking under Sec. 34(e) of the Mining Act (R.S.O. 1960) File 163006

RECEIVED
FEB 10 1980

Rec. Feb 11/80

PLAN NO. M.1074

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

42A24NW0016 2.10983 REEVES

230

REEVES TWP.

PENHORWOOD TWP.

SEWELL TWP.

KENOGAMING TWP.

Chubb Lake

Sewell Lake

Eastman L.

Lap Lake

Crawford Lake

Hanrahan Lake

2.10983

1 inch = 1/2 mile

0 1/2 1 1 1/2 2 miles

0 1 2 3 kilometres

REVISIONS	ROBERT S. MIDDLETON EXPLORATION SERVICES INC.		
	for GOLDROCK RESOURCES INC. & GLEN AUDEN RESOURCES LTD.		
	Title REEVES JOINT VENTURE PROPERTY CLAIM MAP		
	Date: Oct. 87	Scale: 1:32500	N.T.S.:
	Drawn: B.S.B.	Approved:	File: M-223

42A04NW0016 2.10983 REEVES


REVISIONS
ROBERT S. MIDDLETON
EXPLORATION SERVICES INC.
for GOLDROCK RESOURCES INC.
& GLEN AUDEN RESOURCES LTD.
Title REEVES PROPERTY JOINT VENTURE
TRENCHING & SURFACE GEOLOGY
DEERFOOT LAKE ZONE (WEST)
Date: NOV/87
Scale: 1:500
N.T.S.:
Drawn: D.G./S.S.
Approved:
File: M-223
2.10983
NOTE: Due to strong magnetics, compassing was not reliable and backsighting and triangulation was employed.
LEGEND
ROAD (Gravel, Dirt, Bush)
exposed O/C (overgrown = overgrown)
slope
Direction of slope
man made trenches and pits, dug (blasted = blasted)
Pit 8B, 9C Excavated, OCT 87
A223XX Channel samples collected OCT 87 (grab = grab)
existing cut line with pickets
(X;X;X;X) (Au;ppb, Zn;ppm, As;ppm, Sb;ppm)
SCALE 1:500
AREA A
AREA B
AREA C
AREA D
AREA E
AREA F
Pit 9C
Sulphide facies Iron Formation
Beaver Meadow
Aligned N-S with O/C on E+W
Brecciated Basalt 4+00 N
REEVES TOWNSHIP
PENHORWOOD TOWNSHIP
GRAVEL ROAD
BUSH ROAD
REEVES, SEWELL, PENHORWOOD KENOGAMING, Townships Common Post 175m