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#### PIPESTONE BAY RESOURCES, LTD.

TODD TOWNSHIP, ONTARIO

REPORT ON DIAMOND DRILLING

PHASE I

5 October, 1983

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Peter J. Vamos P. Eng.

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#### SUMMARY

The first phase of exploration on the Pipestone Bay property is finished with the completion of 1066.4 m. diamond drilling. Three geophysical anomalies were tested, as recommended in the earlier reports on electromagnetic and magnetic surveys. The anomalies were confirmed as conductive sulphide mineralization with traces or low values of gold. The deep exploration confirmed the northerly dip of the favourable rock types and the northwardly dip of the auriferous structure known from the neighbouring Goldquest property. Gold values of significant magnitude were found in volcanic rocks associated with quartz veins and minor sulphides. Quartz veins found were of random orientations, some with gold values, others barren.

The program is concluded as a success and recommendations are given for an additional 2650 m. drilling along the south boundary to test the auriferous structure on strike east and west of the present intersections.

#### PROPERTY, LOCATION AND ACCESS

The property consists of eleven contiguous Patented Claims and two recently staked claims in the north half of Todd Township which is located in the Red Lake Mining Division of the District of Kenora (Patricia Portion). The claims are approximately  $\frac{1}{2}$  mile north of Rowan Lake and are numbered as follows:

KRL	11067	KRL	11072
	11068		12993
	11069		12994
	11070		13418
	11071		13419
			13420

The claims staked for the project are numbered as KRL 681106 and KRL 681107.

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The claims are located  $1\frac{1}{2}$  miles east of the east shore of Pipestone Bay of Red Lake and roughly  $2\frac{1}{2}$  miles north of the mouth of the "Golden Arm" of the same lake.

A bush road has been established between the above mentioned two locations in the early days. It was improved at the time the Lake Rowan property was reactivated (1952) and more recently by Keeley Frontier Mines Ltd (1983). At the present it can be utilized as a means of transportation using pick-up trucks and larger vehicles. This road touches on the southwest corner of the Pipestone Bay property. Access to the landings on either end of the road can be gained by water or float-equipped aircraft from the town of Red Lake. This community is serviced by air from Winnipeg or Dryden, Ontario, or by Highway 125.

#### PAST HISTORY

The files of the Ministry of Natural Resources were searched, both at Queens Park in Toronto and in the office of the Regional Geologist in Red Lake. In addition, the author checked the files of Golden Arm Mines.Ltd., the predecessor of Pipestone Bay Resources. Very little information was obtained. While the claims were patented a long time ago, suggesting that considerable work was done to satisfy the patent requirements, now very little is known from the early work. It appears that since the mid-thirties, no work has been done short of geological and airborne geophysical surveys conducted by the Geological Survey of Ontario.

Trenching and sampling constituted most of the work on the property. A sketch map dated 1936 shows a series of trenches on the south half of the property. Most of these

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are north-south cut and appear to be in the sedimentary units.

Some of these trenches were located during the season by the author. They are narrow at times, 2-3 feet deep cuts, all are caved-in and completely overgrown, visible only from a very short distance. Judged by the size of trees growing from the sides of the trenches, they are likely fifty years old.

Geological and airborne geophysical maps done recently by the Ontario Geological Survey show the property. These maps were used as a basis for the present work.

#### GENERAL GEOLOGY

The region was mapped twice by the Ontario Department of Mines (Ontario Geological Survey). The earlier work (1940) being outdated, we will only refer to the more recent maps. According to these, the area of Todd Township is underlain by a series of volcanic flows where the mafic types of flows do predominate. These rocks strike in a horseshoe shape with Pipestone Bay being at the open base of the "horseshoe". Intervolcanic sediments also follow this trend along with narrow but highly magnetic iron formations. The reason for this strike is structural; a major anticline strikes southwestnortheast. On Riley's map (1978) it is identified as the "Rowan Lake Anticline" and it is shown to be in the vicinity of Rowan Lake.

A major ultrabasic intrusion lies under the waters of Pipestone Bay in the neighbouring Ball Township. Associated with the intrusion are several smaller ultrabasic bodies varying between sill-like features and irregular plugs.

Several smaller acid intrusions were mapped. They are found in various places called feldspar porphyries and quartz diorites; they are often associated with anomalous or significant gold values along their contacts. It has been believed

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that such intrusives are genetically related to the gold deposition, though we have known of some such mineralized bodies without any known intrusive close by.

The bulk of the Pipestone Bay property is underlain by clastic and chemical sediments. The volcanic rocks are represented by intermediate flows, a narrow band at the center of the property and a thick pile of volcanic rocks underlying the scuth boundary. A minor intrusion (Hornblende trondhjemite) was found on the south side of the property (KRL 12992). Dips to the north and the south have been recorded on the property; all dips tend to be steep. The writer counted more northerly dips in this vicinity on the regional geological maps than to the south.

#### ECUNOMIC GEOLOGY

Gold occurs in Todd Township in a variety of geological conditions. R. A. Riley in his "Marginal Notes" on his preliminary map states:

> Gold occurs with quartz in shear zones and tension fractures with or without sulphide mineralization. Its most common associations include quartz veins in tension fractures along or near contacts, tension fractures in gabbro, tension fractures in felsic flows, with iron formation and felsic tuff and in quartz veins in carbonate.

(Property identifications in brackets were deleted from the original text by the author of this report.)

Two gold deposits are found adjoining the Pipestone property, both have proven reserves and both have just been reactivated. The property on the west, Keeley Frontier Mines Ltd. (formerly; Red Poplar, Frontier, New Dimensions, Mount Jamie), has reported average values of 0.45 ounces of gold per ton (No. 2 shaft, Harwood 1945). The author has not found any data regarding published reserves from this property. The No. 1 shaft has been dewatered this year. Surface and underground drilling is currently in progress. News releases indicate confirmation of earlier results. No. 1 shaft is less than 0.5 miles west of the Pipestone boundary.

The second deposit with possible commercial potential lies just south of the Pipestone Bay boundary. Here Goldquest Explorations (formerly Rowan Lake, Consolidated Rowan), announced their new figures for reserves taken from three levels of their mine as 89;160 tons of 0.289 ounces of gold per ton.

The Goldquest shaft lies approximately 600-700 feet south of the boundary. *Q*old occurs here in quartz veins along tension fractures striking east-west. /Minor sulphides accompany the mineralization, which is near the contact between intermediate and mafic metavolcanics. The vein is quoted to average 10 inches (25 cm.) in width. This structure does seem to weaken below 250 feet. However, it still can be found on the 400 foot level. Besides this major vein system, several parallel veins have been located. Riley takes note of a surface exposure and subsequent diamond drilling on claim 8167 where drilling "indicated several narrow gold bearing zones, primarily quartz veins in or along contacts between intermediate and felsic metavolcanics. The best intersection reported from this drilling assayed 1.25 ounces gold/ton over 1.4 feet (0.42 m.)." This showing is approximately 300-400 feet south of the boundary.

Dip of the quartz veins on the Goldquest property was given as north at  $75^{\circ}$ .

Other surface exposures such as claim 9999 west and south have also shown gold mineralizations dipping to the north. The west showing is approximately 1400-1500 feet from the southwest corner of the Pipestone Bay prospect. Here Harwood reports 1.207 ounces gold/ton across 1.4 feet (0.42 m.)

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#### DESCRIPTION OF PROGRAM

Pipestone Bay Resources, upon the completion of a geophysical survey, undertook a diamond drilling program to test some of the geophysical anomalies located by the recent surveys. It was also decided that one of the drill holes be continued to a greater depth after both anomalies have been successfully explained.

Benoit Diamond Drilling of Val d'Or, Quebec, was contracted to drill a total of 3500 feet of NQ core. A Boyles 38 hydraulic diamond drill was moved by barge to the property on 10 July, 1983. Drilling continued without interruption until 27 August, 1983, when the contracted footage of 3500 feet was reached.

During the program three holes were completed: P-1 on 2+00W, 1+60N of Baseline 2 at 50° to a depth of 130.4 m; P-2 on 0+00 , 1+60S of Baseline 1 at 55° to a depth of 387. m.; P-3 on 9+50E, 2+00S of Baseline 1 at  $65^{\circ}$  to a depth of 549 m. Total depth of the three holes was 1066.4 m (3499 feet).

Drilling was done using NQ equipment to obtain bigger samples. The core was logged at the Pipestone Bay Camp. All siliceous material, quartz veins, sulphide mineralization was split in the field and half of the material was sent for fire assay to Baurlamaque Assay Laboratories in Val d'Or, Quebec.

A total of 317 samples were taken from the drill core. The rejects and pulps were saved and are currently stored at the laboratory.

All three drill holes were aimed to test three geophysical anomalies which were attributed to conductive and magnetic iron formations. Hole P-2 was also aimed to test the contact zone between the sediments and volcanic rocks at the south edge of the property.

Hole P-3 was also to intersect two geophysical anomalies and to continue at depth to explore for parallel quartz veins hosting gold values which were known from the surface and underground work on the Goldquest (Rowan) property.

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#### CONCLUSIONS

After all drill logs are completed and assay results have been received, we have to conclude that the drilling has successfully proven that the conductivity found by geophysical means was caused by electrically conductive sulphide zones associated with cherty chemical sediments.

While several of these zones indicated highly anomalous gold values (0.01 - 0.06 ounces/ton range), none of the sulphide zones have returned any economical grades, though such occurrences are reported on one of the adjoining properties.

Hole 2 explored the contact zone at depth on the southeast portion of the property. An extensive quartz carbonate body was located, with some sulphide mineralization and quartz stringers. Though several samples were taken, no encouraging results were obtained. The volcanic unit was located at a depth of 337.2 m. with a few quartz veinlets and stringers; again, no significant values were found.

Hole P-3 was the most encouraging of all three drill holes. It again intersected the geophysical targets. The first such intersection was high in the hole which was almost collared in the anomaly. 5.5 m. of anomalous material was found between 9.9 and 15.4 m. Values here ranged between 0.01 ounces of gold/ton and 0.03 ounces /ton. The second geophysical anomaly was located at 267 m. Gold here was represented by traces only.

Deeper in the hole, already within the volcanic rocks, three intersections of commercial grade were found. These have been described as quartz stringers and veinlets with sulphide mineralizations. Each is a single high value taken over a 40 cm. sample in the commercial range such as 419.6-420 m., 0.48 ounces of gold/ton; 440.4-440.8 m., 0.52 ounces and 476.1-476.5 m., 0.31 ounces/ton. This type of intersections and values resemble the ones reported by Harwood (Riley) from the early surface work on Rowan.

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It is a very important fact that three gold intersections were found which are at a relatively short distance from one another. This signifies that the auriferous structure, well-explored on the surface and underground on the neighbouring Goldquest ground, follows the dip assumed by the author and will cross over to the Pipestone Bay property.

This auriferous structure has been traced along several miles to the west as far as the western boundary of the Keeley Frontier property. The major characteristics of the mineralized bodies or shoots are: that they are not large in size; they follow the regional strike and can be found in subparallel positions in an area which is up to 200-300 m. in width. Economic considerations therefore lie not only with the size of a shoot, but with the frequency and geometry with which they occur. The numbers of the shoots and total tonnage and the waste material between the shoots will be just as important as the size of the shoots, if and when a production decision on any of these properties is made.

The past drilling clearly indicates the possibility of a major auriferous structure appearing on the Pipestone Bay property, below the depth of 300 m. vertical. The possibility of a Malartic Hygrade situation is very strong, which necessitates further exploration efforts along the auriferous structure.

We also have to conclude that hole P-3 was found to deviate strongly in the vertical plane. Because of the high magnetic susceptibility of the rocks, the downhole survey for deviation along the horizontal plane could not be completed. The results of such a survey under these conditions may be erroneous or are always subject to doubt. A further complicating factor is that the surveyed line separating the Pipestone and Goldquest properties was destroyed by a forest fire many years ago. Therefore, the exact location of the boundary line between the two properties is at the present not established. Efforts to find some of the

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steel pins along the line were fruitless, though field crews of both Goldquest and Pipestone were at times conducting a search.

As we have suggested before, the property has definite potential to present a Malartic Hygrade type deposit. In that situation, a mining property with not too encouraging results near the surface became a producer by having the neighbouring Camflo orebody crossing the property boundary at depth.

The exploration and development of such a deposit does require special goals and methods. It also presents special hurdles during the exploration and definition drilling.

Consequently, the future drilling should be aimed to define the following:

a) A definite indication that the structural assumption our work is based on is correct.

b) The presence of the auriferous structure on the property boundary and/or its continuation on the Pipestone at depth.

c) The horizontal extension or a definite indication of such an extension with a reserve potential.

d) The correlation between individual drill intersections along the auriferous structure.

None of the above goals are to establish any reserves, nor to make a decision regarding the economy of the deposit. It is certain that an orebody found at such depth would have to be of a considerable size to support development on its own merits. Therefore, at least for the present time, one has to aim for a joint development venture with the neighbouring Goldquest Explorations Ltd., providing there is enough information to create an interest in the other party. This is in essence what our proposed program would have to achieve.

Besides the above listed goals, some specific methods will have to be employed to assure the required results. Considering deep targets,

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the drill footage should be used to provide optimum results. Therefore, while the unit cost of drilling will exceed the past costs, the possibility of losing holes to deviation could be significantly decreased.

In our judgment, the present work has sufficiently indicated that the auriferous structure known from the Keeley Frontier and Goldquest properties indicates a northerly dip south of the Pipestone boundary.

Narrow quartz veins with significant gold values were found and the favourable rock types definitely occur at depth on the Pipestone Bay property, though these rocks are not found on surface in the same area. It is suggested that further work be done over the four claims on the south side, aiming to further define the position; extent and geometry of the auriferous structure.

#### RECOMMENDATIONS

To achieve the goals set out in the previous chapter, we are suggesting to drill a series of holes which are deeper than the usual exploration holes but significantly less than the depth of P-3.

In order to maximize our drill footage, we will have to employ methods which will eventually increase our unit costs, but will safeguard against serious losses to extreme deviation.

Since we are now in the position to aim more directly at certain areas, we can decrease our required footage by stepping closer to the targets while increasing the drilling angle.

The following methods to assure straight drilling will be suggested:

a) Controlled drilling (rotation, head pressures) for the first 100 or 150 metres of drilling.

b) Increased testing for deviation, dip testing and compass testing if the conditions allow. Optical fibre type testing if compass cannot be used.

c) Deviation preventive devices to be used during the entire program.

d) Wedging to be considered whenever such measures are required.

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The work proposed is to cover an area between lines 8+00E and 10+50E. Our hole is to be sunk on every line (50 m. separation). The first hole to be drilled on 9+00E should be recessed approximately 150 metres from the property boundary. It should be collared at 800 with an allowable deviation of 12-140 in the horizontal plane. The intersections are to be made before reaching the depth of 510 metres.

While the coordinates and depths for the subsequent holes will depend on the results of the first drill hole, estimated average depth is 530 m. giving 2650 m. as a total depth for the program.

Further follow-up alone, or in a joint venture with Goldquest or involvement of others should be considered after full assessment of the results is made.

#### COST ESTIMATE

Mobilization and (includes b	l demobil barging)	lization	\$ 12,000.
Diamond drilling	g (\$90./m	n <b>.)</b>	239,109.
Deviation contro	51		15,000.
Sampling			5,000.
Assays			25,000.
Supervision			15,000.
Camp costs			5,000.
Office overhead	(5%)		15,805.
Contingencies	(10%)		33,191.
		Total	\$365,105.

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REFERENCES

- Ontario Department of Mines, Forty-ninth Annual Report. Vol. XLVIV, Part II, 1940. H. C. Harwood. Geology and Mineral Deposits of the Red Lake Area.
- Ontario Division of Mines, Preliminary Map P. 1052 Geological Series. Todd Township, by R. A. Riley, 1975. Geology-1971.
- Ontario Geological Survey, Map 2406. Todd Township, by R. A. Riley, 1977. Geology-1971.
- Ontario Geological Survey, Preliminary Map 1577. Red Lake Area, Airborne Electromagnetic Survey, 1978.

Golden Arm Mines Ltd. - files.

Pipestone Bay Resources, Ltd. Report on Electromagnetic surveys, P. J. Vamos, P. Eng., 1983.

NAME OF PROPERTY	Pipestone Bay
HOLE NO. P-1	LENGTH 130.4 m.
LOCATION	
LATITUDE 2+00W	DEPARTURE 1+60N of BL-2
ELEVATION	AZIMUTH South (180°) DIP -50°
STARTED 20 July 198	3 FINISHED

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
75 m.	490				
130m	480				

HOLE NO. \_\_\_\_\_ SHEET NO. \_\_\_ 1 REMARKS

LOGGED BY P. Vamos

FOO	TAGE				SAMP	LE		ASSAYS					
FROM	то	DESCRIPTION	NO.	SUL PH-	FROM	FOOTAGE TO	TOTAL	78	76	ALY TON	OZ/TON		
0	22.55	Casing.	and a second and a s										
22.55	30.40	Acid volcanics. light greenish grey to darker grey, very fine grained matrix, medium grained feldspar phenocrysts with rounded edges. Very siliceous, hard and massive.	1001		29.7	30.4	0.70			Tr			
		29.60 - 29.80 Chloritic. Lower 60 cm coarser and slightly foliated.							-				
30.40	30.90	Intermediate dyke? fine grained greenish grey, chloritic.	1002	-	30.4	30.9	0.50			Tr			
30.90	31.10	Acid volcanic, as above.	1003		30.9	31.4	0.50		1	Tr			
31.10	31.70	Intermediate dyke, as before, chloritic.	n de la construcción de la constru La construcción de la construcción d										
31.70	33.90	Intermediate volcanic, with occasional chloritic sections. Lower contact transitional.											
33.90	99.40	Sediments. generally fine grained, dark to greenish grey with occasional garnetiferous. also some feldspathic sections. Occasional foliation at 65° to C.A. Generally silicified with fine quartz veinlets also interstitially. Minor epidotisation. Massive and hard.											
		51-57 Increased alteration.											
		53.30-54.90 Minor sulphides, also approximately 40% lost core.	1004 1005 1006		53.30 53.80 54.80	53.80 54.80 55.50	0.50 1.00 0.70			Tr Tr Tr			

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NAME OF PROPERTY\_\_\_\_\_Pipestone Bay

HOLE NO.

P - 1 \_\_\_\_\_ SHEET NO. \_\_\_\_\_

FOO	TAGE		SAMPLE						ASSAYS	YS		
EROM	70	DESCRIPTION	NO. UDES FROM TO TOTA			TOTAL	7.	7	OZ/TON	OZ/TON		
			1	1023			1017.0			1		
		57-64 Less altered, less foliated, more massive.										
		64-72 Gradually increasing chloritisation and fracturing, also few feldspathic stringers.										
		72- Increasing amounts of silica.	1007		72.00	72.50	0.50			Tr		
		72.30 Irregular quartz veinlet.	1008 1009 1010		72.50 73.00 73.50 74.00	73.00 73.50 74.00 74.50	0.50 0.50 0.50			0.01 Tr Tr Tr		
		74.67 Less altered.	1012		74.50	75.00	0.50			Tr		
		74.90 Quartz veinlet 3 cm.										
		77.6-79.0 "Banded" sulphides mainly pyrite and pyrrhotite banding 50° to C.A.	$1013 \\ 1014 \\ 1015$		77.50 78.00 78.50	78.00 78.50 79.00	0.50 0.50 0.50			Tr Tr Tr		
		81.00 Minor sulphides over 10 cm.										
		81.0-84.5 Increased alteration mainly chloritic.				ł						
		84.50 Less altered, massive.										
		90.30 10 cm, crenulated.										
		93.00 Minor quartz stringers.										
		96.7-98.2 Coarser grained more grey, top contact sharp at 65° to C.A. Minor quartz stringers.										
99.40	100.45	Intermediate dyke. lighter grey fine grained, less chloritised, finel disseminated, euhedral pyrite 1% or less.	y									
100.45	130.4	Sediment. (undifferentiated) as before.										
		103 Minor quartz stringers.										
		<pre>117.65 becoming more massive, quartz veinlet at top (2 cm. broken). few fine quartz string- ers 1-2 mm.</pre>	101 101 101	678	117.5 118.0 118.5	118.0 118.5 119.0	0.50 0.50 0.50			Tr Tr Tr		
		121.3 Quartz veinlet 1 cm										

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NAME OF PROPERTY\_\_\_\_\_Pipestone Bay

HOLE NO. \_\_\_\_\_ SHEET NO. \_\_\_\_

FOOTAGE	SAMPLE				SAMPLE			E A			ASSAYS			
FROM TO	DESCRIPTION	NO.	% SULPH	58014	FOOTAGE	TOTAL	%	7.	AU OZ/TON	OZ/TON				
FOOTAGE FROM TO	12.1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	N0.	% SULPH IDES	FROM		TOTAL	74	7.	ASSAY	OZ/TON				

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NAME OF	PROPERTY P	ipestone Bay
HOLE NO.	<u>P-2</u>	LENGTH 387 m
LOCATION		
LATITUDE	0+00	DEPARTURE 1+60S of BL-1
ELEVATION		AZIMUTH South DIP 550
STARTED	25 July 198	33 FINISHED 3 August 1983

FOOTAGE	DIP	AZIMUTH	FOOTAGE	DIP	AZIMUTH
 150m	50 <sup>0</sup>				
240m	460				
387m	44 <sup>0</sup>				

HOLE NO. \_\_\_\_\_ SHEET NO. \_\_\_\_

REMARKS

LOGGED BY P. Vamos PIV

FOO	TAGE				SAMP	LE		ASSAYS					
FROM	то		NO.	SULPH-	FROM	FOOTAGE TO	TOTAL	33	76	OZ/TON	OZ/TON		
0	3.8	Casing.											
3.8	8.3	Sediments. greywacke type, greenish grey, fine grained matrix with chloritised fragments up to 1 cm.											
		7.3 Minor quartz veinlet.											
8.3	37.0	Sediments, undifferentiated, generally fine grained, greenish grey, chloritic at top 40 cm sheared at 40-45°to CA.	1019 1020		8.3 8.8	8.8 9.3	0.50 0.50		-	Tr Tr			
		9.25-13.8 Siliceous with occasional enrichment of disseminated sulphides.	1021 1022 1023 1024 1025 1026		9.3 9.8 10.3 10.8 11.3 11.8	9.8 10.3 10.8 11.3 11.8 12.3	0.50 0.50 0.50 0.50 0.50 0.50			Tr Tr Tr Tr Tr Tr Tr			
		18.3 Sulphides, thinly banded approximately 5% over core length. Occasional short sections of heavy sulphides (70-90%).	1027		12.3	12.8	0.50			Tr			
			1020		19.0	19.0	0.50			Ir Tr			
		20.3-20.4 Massive sulphides, pyrite-pyrrhotite (nodular) 90%	1030 1031 1032 1033 1034 1035 1036		19.5 20.0 20.5 21.0 21.5 22.0 22.5	20.0 20.5 21.0 21.5 22.0 22.5 23.0	0.50 0.50 0.50 0.50 0.50 0.50 0.50			Tr Tr Tr Tr Tr Tr Tr Tr			
		23.6-23.7 Massive sulphides 60%	1037 1038		23.0	23.5	0.50			Tr Tr			
		24.4-24.5 Massive sulphides 75%	1039 1040 1041		24.0 24.5 25.0	24.5 25.0 25.5	0.50 0.50 0.50			Tr Tr Tr Tr			

NAME OF PROPERTY\_\_\_\_\_ Pipestone Bay

HOLE NO. P-2 SHEET NO.

FOOT	TAGE	SAMPLE								ASSAY	S	
		DESCRIPTION	NO.	% SULPH		FOOTAGE		7.	7.	OZAYUN	OZ/TON	
FROM	10			IDES	FROM	10	TOTAL					
		25.9-26.1 Massive sulphides 90%	1042		25.50	26.10	0.60			Tr		
		27.0-27.1 Massive sulphides 60%	1043		27.15	27.65	0.50			Tr Tr		
		28.20 Massive sulphides 5 cm 90%	1045		28.15	28.65	0.50			0.01		
		28.7-31.0 Increasingly siliceous, quartz patches minor epidote and occasional sulphides	1046 1047 1048		28.65 29.15 30.15	29.15 30.15 30.65	0.50 1.00 0.50			$0.01 \\ 0.01 \\ 0.01$		
37.00	40.42	Feldspar porphyry dyke, fine grained medium grey matrix with fine to medi- um grained feldspar phenocrysts, rounded. Upper contact 80° to CA, lower 60-70° (not sharp).										
40.42	167.5	Sediments (undifferentiated) fine to medium grained darker grey with greywacke type intersections								-		
		79.7-80.1 Feldspar porphyry dyke.										
		83.8-84.3 Few quartz veinlets less than 1 cm.	1049		83.8	84.3	0.50			Tr		
		90.3-91.3 Silicified.	1050		90.3	91.3	1.00			Tr		
		106 - 107 Silicified.	1051		106	107	1.00			Tr		
		108.0 Minor porphyry dyke.										
		108.1-108.8 Minor sulphides (disseminated pyrite)	.1052		108.1	108.8	0.70			Tr		
		108.8-109.6 Minor quartz stringers.	1053		108.8	109.6	0.80			Tr		
		121.93-123.4 Silicified with minor brecciation.	L 0 5 4 L 0 5 5		121.93	122.73 123.4	0.80 0.67			Tr Tr		
		131.92 Quartz veinlet 1 cm. at $50^{\circ}$ to CA.	1056		131.6	132.	0.40			Tr		
		147.6 Silicified over 1.6 m.	1057 1058		147.6	148.4 149.2	0.80- 0.80			Tr Tr		
167.5	216.7	Sediments (predominantly banded). grey fine grained. Top contact transitional,band- ing 1-2 cm. about 55-60° to CA. Occasional micro- faulting. Core massive and hard.										
		170.6-172.5 Very siliceous with banded sulphides, top 1.2 m approximately 70% sulphides mainly pyrrhotite with pyrite.	,059 ,060 061 062		170.6 171.1 171.6 172.1	171.1 171.6 172: <u>1</u>	0.50 0.50 0.50 0.40			Tr Tr Tr Tr		

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NAME OF PROPERTY\_\_\_\_\_ Pipestone Bay

HOLE NO. \_\_\_\_\_\_ P-2\_\_\_\_\_ SHEET NO. \_\_\_\_\_3

FOOT	AGE					SAMPL	E				ASSAYS	3	
FROM	то		DESCRIPTION	NO.	% SULPH	FROM	FOOTAGE	TOTAL	76	%	OZALUN	OZ/TON	
		172.5-176.7	Darker, more massive, less banded, less silica and less sulphides (10%)	1063 1064 1065 1066		173.2 173.7 174.2 174.7	173.7 174.2 174.7 175.2	0.50 0.50 0.50 0.50			0.01 Tr Tr Tr		
		176.7-176.9	Minor feldspar porphyry dyke, upper contact sharp approximately 55° to CA.			/							
		176.9-180.9	Less banded, less sulphides.										
		180.9-181.3	Argillaceous with approximately 50% pyrrhotite.	1067		180.9	181.3	0.40			Tr		
		181.3-185.9	Clastic material, occasionally banded few sulphide bands, minor argillaceous with section (185.3-15 cm.) with 80% sulphides.	1068 1069 1070 1071		183.5 184.0 184.5 185.0	184.0 184.5 185.0 185.5	0.50 0.50 0.50 0.50			Tr Tr Tr Tr Tr		
		185.9-191.1	Wacke type, coarser.	1072		191.0	191.5	0.50			Tr		
		191.1-195.7	Argillaceous, dark with banded sul- phides (60%), banding shows contortion	1 07 3 1 07 4 1 07 5 1 07 6 1 07 7 1 07 8 1 07 9		191.5 192.0 192.5 193.0 193.5 194.0 194.5	192.0 192.5 193.0 193.5 194.0 194.5 195.0	0.50 0.50 0.50 0.50 0.50 0.50 0.50			Tr Tr Tr Tr Tr Tr Tr		
		195.7-196.6	Silicified section.	1080 1081		195.0 195.7	195.7 196.6	0.70 0.90			Tr Tr		
		196.6	More massive greywacke type material, minor and occasional argillaceous sections with sulphides.										
		200.45	Minor quartz veinlet l cm.	1082		200.0	200.5	0.50			Tr		
		205.9-206.7	Argillaceous with sulphides (20%) and minor quartz.	1083		205.9	206.7	0.80			Tr		
		214.4	Quartz vein 5cm.	1084 1085		214.0 214.5 215.0	214.5 215.0	0.50			Tr Tr Tr		
		215.65	Quartz vein 6cm.	087		215.5	216.0	0.50			Tr Tr		
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NAME OF PROPERTY Pipestone Bay

P-2\_\_\_\_\_\_ SHEET NO.\_\_\_\_4\_\_\_ HOLE NO.

FOO	TAGE				SAMPL	E				ASSAY	5
5001		DESCRIPTION	NO.	% SULPH	50014	FOOTAGE	TOTAL	7.	%	AU 02/TON	OZ/TON
FROM				IDES	FROM		10174				
216.7	234.0	Sediment C (?)	1089		216.7	217.2	0.50			Tr	
		light green to light grey, very fine grained, pos-	1090		217.2	217.7	0.50			Tr	
	[ ]	sibly highly altered, chemical sediment. Very	1091		217.7	218.2	0.50			Tr	
		chloritic with high proportions of quartz as bands	1092		218.2	218.7	0.50			Tr	
		and/or veinlets. Carbonate as patches and stringers	1093		218.7	219.2	0.50		Į	Tr	
		occasionally as high as 30-40%. Minor sulphides as	1094		219.2	219.7	0.50	1		Tr	
		stringers or disseminated, mainly pyrite and pyrrho-	1095		219.7	220.2	0.50			Tr	
		tite.	1096		220.2	220.7	0.50			Tr	
			1097		220.7	221.2	0.50			Tr	
1			1098		221.2	221.7	0.50			Tr	
			1099		221.7	222.2	0.50			Tr	
			1100		222.2	222.7	0.50			Tr	
1	1		1101		222.7	223.2	0.50			Tr	
			1102		223.2	223.7	0.50			Tr	
			1103		223.7	224.2	0.50			Tr	
			1104		224.2	224.7	0.50			Tr	
		224.7-225.2 Dark grey massive, no quartz.	1105		224.7	225.2	0.50		-	Tr	
			1106		225.5	225.7	0.50			Tr	
			1107		225.7	226.2	0.50			Tr	
			1108		226.2	226.7	0.50			Tr	
1	1		1109		226.7	227.2	0.50			Tr	
			1110		227.2	227.7	0.50			Tr	
1			1111		227.7	228.2	0.50			Tr	
			1112		228.2	228.7	0.50			Tr	
			1113		228.7	229.2	0.50			Tr	
			1114		229.2	229.7	0.50			Tr	
1			1115		229.7	230.2	0.50			Tr	
1			1116		230.2	230.7	0.50			Tr	
1			1117		230.7	231.2	0.50	1		Tr	
1			1118		231.2	231.7	0.50			Tr	
			1119		231.7	232.2	0.50			Tr	
		232.6-233.9 Minor disseminated sulphides, mainly	1120		232.2	232.7	0.50			Tr	
		pyrite in very siliceous matrix.	1121		232.7	233.2	0.50			Tr	
			122		233.2	233.7	0.50			Tr	
234.0	234.8	Banded sediments,									
li in the second se		darker grey medium grained banding at 50 <sup>0</sup> to CA.	123		233.7	234.2	0.50			Tr	
1			124		234.2	234.8	0.60			Tr	
234.8	337.2	Siliceous chemical sediments,	125		234.8	235.3	0.50			Nil	[ [
		as before.	126		235.3	235.8	0.50	1		Nil	] [
			127		235.8	236.3	0.50			Nil	
<b>,</b> .					Į				l	1	
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NAME OF PROPERTY Pipestone Bay

HOLE NO. \_\_\_\_\_P-

P-2\_\_\_\_\_\_\_ SHEET NO.\_\_\_\_\_

FOOT	AGE				SAMPL	ε				ASSAYS	5
FROM	то	DESCRIPTION	NO.	% SULPH	FROM	FOOTAGE	TOTAL	7.	7.	0ZAIUN	OZ/TON
			1128 1129 1130	1023	236.3 236.8 237.3	236.8 237.3 237.8	0.50			Tr Nil Tr	
		238.3 Increasing disseminated sulphides.	1131		237.8	238.3	0.30			Tr Tr	
		239.0-239.4 Stringers of sulphides.	1273		239.0	239.4	0.40			Tr	
		239.6 5 cm. quartz veinlets.	1274		239.4	239.9	0.50			Nil	
		239.0-247.6 Increased quartz, could be primary.	1275 1276 1277 1278		239.9 240.4 240.9 241.4	240.4 240.9 241.4 242.0	0.50 0.50 0.50 0.60			Nil Nil Nil Nil	
		253.0-254.1 Dark grey, clastic sediments with mino pyrite disseminations.	r							-	
		256.61-257.76 Quartz, sharp upper and lower contac at 45° to CA. May be primary. Very minor pyrite and pyrrhotite.	ts1279 1280		256.6 257.1	257.1 257.7	0.50			Tr Tr	
		257.76-263.75 Mixing of carbonate quartz chemical sediments and bands of clastic material.									
		262.75 Minor quartz veinlet (1 cm) and string ers 3-4/m. Also minor disseminated pyrite (fine grained), few light blue quartz eyes.	- 1281 1282		262.7 263.2	263.2 263.7	0.50 0.50			Nil Tr	
		263.75-269.8 Clastic sediments predominate.							-		
		266. Sheared (minor).									
		269.8-300. Chemical sediments, quartz carbonate chlorite predominates.									
		274.3-275.05 Thin quartz fracture fillings.	1283		274.2	274.7	0.50			Tr	
		275.05 Quartz veinlet $1.5 \text{ cm}$ . $70^{\circ}$ to CA.	1284		274.7	275.4	0.70			Tr	
		275.6-276.9 Concentration of garnets.									
		276.9-279.0 Garnetiferous.									
		283.65 Minor quartz veinlet 1 cm. or less, also increasing clastic material.	1285		283.45	283.85	0.40			0.01	

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NAME OF PROPERTY \_\_\_\_\_\_ Pipestone Bay\_\_\_\_

HOLE NO. \_\_\_\_\_ P-2\_\_\_\_\_ SHEET NO. \_\_\_\_6\_

F00	TAGE					SAMPL	E			A	SSAYS	5	
FROM	то		DESCRIPTION	NO.	% SULPH	EROM	FOOTAGE	TOTAL	7.	7.	AU OZ/TON	OZ/TON	
		292.85	Quartz veinlet 1.5 cm.	1286	1023	292.6	293.1	0.50			Tr		
		294.1	Quartz veinletlow angle.	1287 1288		293.1	293.9	0.80			Tr Tr		
		295.7 <b>-</b> 295.95	Quartz veinlet and irregular patches of quartz.	1289		295.55	296.1	5 0.60			Nil		
		298.3-298.4	Irregular quartz veinlet	1290		298.2	298.6	0.40			Tr		
		300.	Clastic sedíments predominate.										
		302.65	Quartz carbonate veinlet 3 cm.	1291		302.45	302.8	5 0.40			Nil		
		305.7	Quartz veinletlow angle.	1292		305.5	305.9	0.40		(	Tr		
		310-313	Quartz and carbonate stringers and veinlets, also some irregular patchy quartz carbonate.	1293 1294 1295 1296		310.0 310.5 311.0 312.1	310.5 311.0 311.5 312.5	0.50 0.50 0.50 0.40			Tr Tr Tr Tr		
		217 5.210	Minor quarte mainlate	1297		313.4	314.0	0.60			Tr		
		210	Minor quartz veinlets.	1298		317.5	318.0	0.50					
		326.	Increasing chloritisation, also minor epidote in coarser sediments. Frequent carbonate stringers.	1299		520.2	520.0	0.40					
		330.25	Quartz and carbonate over 25 cm.	1300		330.0	330.5	0.50			Tr		
337.2	387.0	Intermediate vo fine to media massive and	olcanic ? um grained darker grey, more uniform, less altered.										
		333.10 and 3	33.25 Quartz veinlets 1 cm each, approx- imately 30° to CA.	-									
		335.6	Quartz veinlet approximately 1 cm. at 55° to CA.	1301		335.4	335.8	0.40			Tr		
		336.8-341.	Coarser grained foliated at $40^{\circ}$ to CA.										
		342.7	Increasing alteration and silica mainly as quartz eyes and patches.										
		348.	Increasing amounts of sulphides, first as disseminations, later as stringers.	1302		347.4	348.15	0.75			0.01		

# ..... DIAMOND DRILL RECORD

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NAME OF PROPERTY Pipestone Bay

HOLE NO. \_\_\_\_\_P-2\_\_\_\_\_ SHEET NO. \_\_\_7\_\_\_\_

F001	TAGE					SAMPL	E				ASSAY	5	
FROM	то		DESCRIPTION	NO.	% SULPH	FROM	FOOTAGE	TOTAL	7.	7.	ALTON	OZ/TON	
		348.69-350.80	Epidotised with sulphides as fracture fillings.	1303 1304 1305 1306	1023	348.69 349.19 349.69	349.1 349.6 350.1 350.8	9 0.50			Tr Tr Tr		
		350.8-351.67	Dioritic dyke, coarse grained.	1307		350.8	351.67	0.87			0.01 Tr		
		351.67	Intermediate volcanic as before, with minor sedimentary bands.	1308 1309		851.67 852.17	352.1 352.67	0.50			Tr Tr		
		-371.	Same alteration as previously described.										
		362.	Occasional quartz and carbonate stringers and veinlets .5 cm. (2-3/m).										
		376.1	Quartz veinlet, microfaulted (1-1.5cm)	1310		375.8	376.3	0.50			۰Tr		
		387.	End of hole.	1311		385.66	386.46	0.80			Tr		

NAME OF PROPERTY	Pipestone Bay	
HOLE NO. P-3	LENGTH 549 m.	
LOCATION		
LATITUDE _9+50E of	BL-1 DEPARTURE	
ELEVATION	AZIMUTH South DIP -650	
STARTED <u>5 August</u>	: 1983 FINISHED 22 August 1983	

and the second se					
FOOTAGE	미미	AZIMUTH	FOOTAGE	DIP	AZ!MUTH
150m	41.5	0			
300m	350				
450m	320				
549m	250				

HOLE NO. P-3 SHEET NO. \_\_\_\_

REMARKS \_\_\_\_\_

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FOO	TAGE					SAMP	'LE			A	SSA	ΥS	
FROM	то		DESCRIPTION	NO.	SULPH	FROM	FOOTAGE		- 7%	76	OZ/TON	OZ/TON	
07.	7 17.5	Casing. Sediments, fine grained at 50-60° to pyrite with 9.80 -10.40	d, darker grey, occasionally well banded o CA. Occasional banded sulphides, mainly minor pyrrhotite. Occasional bands of massive sulphides 10-15 cm and siliceous sections.	1133 1134 1135 1136 1137 1138 1139 1140 1141	1025	9.4 9.9 10.4 10.9 11.4 11.9 12.4 12.9 13.4	9.9 10.4 10.9 11.4 11.9 12.4 12.9 13.4 13.9	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50		•	Tr 0.01 0.02 0.02 0.01 0.01 Tr Tr		
17.5	160.8	14.30 14.8-15.1 16.3-16.6 Sediments, fine to medi wacke type s 2323.18 25. 39.	Microraulting. Encreased silica. Increased silica. Tum grained, lighter grey, more massive sediments, with some banded sections. Quartz veinlet. Weak shearing appears at 30° to CA. Fine grained matrix with medium grained chloritised "fragments" (some rounded	1 1 4 2 1 1 4 3 1 1 4 4 1 1 4 5 1 1 4 6 1 1 4 7 1 1 4 8 1 1 4 9		13.9 14.4 14.9 15.4 15.9 16.4 16.9 23.0	14.4 14.9 15.4 15.9 16.4 16.9 17.4 23.4	0.50 8:38 0.50 0.50 0.50 0.50 0.40			0.02 8:83 Ni1 0.01 Tr Tr		
		41.8	some cubic) sericitised. Minor quartz veinlet.	<u>1150</u>		41.75	42.25	0.50			Nil		

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NAME OF PROPERTY Pipestone Bay

HOLE NO. \_\_\_\_\_\_ SHEET NO. \_\_\_\_\_

FOOT	AGE					SAMPL	E				ASSAYS	3	
ERON I			DESCRIPTION	NO.	% SULPH		FOOTAGE		*	*	ALLTON	OZ/TON	
PROM				1151	IDES_	42 25	42 85	0.60			Nil		{
		43.25 - 43.7	Irregular quartz, veinlets and patches.	1152		42.85	43.35	0.50			Nil		
		44.55 - 47 0	Quartz veinlets and natches (irregular)	1153 1154		43.35	43.75	0.40			Nil Tr		
		44.55 - 47.0	quartz verniets and patches (friegular).	1155		44.60	45.10	0.85			Nil		
				1156		43:38	45.90	0.80			Tr		ł
				1158		46.60	46.60	0.70			Tr Nil		
				1159		47.00	47.50	0.50			Tr		
				1160		47.50	47.90	0.40			Tr		
		50.8	Quartz veinlet 5 cm. at 75° to CA.	1161		50.60	51.00	0.40			Tr		
		60.95	Quartz veinlet 2 cm. at 70° to CA., minor patchy pyrite at 61.2	1162		60.80	61.20	0.40			Tr -		
		63.2	Quartz stringer less than 1 cm.										
		70.65	5 cm chlorite and quartz.	1163		70.50	70.90	0.40			Tr		
		71.5-73.16	Low angle chloritic shear with natchy	1164		70.90	71.50	0.60			Tr Tr		
			quartz.	1166		72.00	72.50	0.50			Tr		
		86.7	Chlorite patch with minor quartz, pos- sibly related to the above.	1167		72.50	73.20	0.70			Tr		
		87.70 & 87.8	Minor quartz stringers.										
		91.9	Quartz veinlet and chlorite 3 cm.	1168		91.70	92.10	0.40			Nil		
		108.25	Quartz stringers 1 cm.	1169		108.2	108.6	0.40			Tr		
		112.45-112.7	5 Quartz veinlets and stringers at low angles 0.5-2 cm.	1170		112.3	112.7	0.40			Tr		
		121.9-123.5	Quartz stringers and veinlets 0.5-1 cm. irregular patches 122.87-4cm. quartz. Minor pyrrhotite with chlorite stringers	1171 1172 1173		121.9 122.5 123.0	122.4 123.0 123.7	0.50 0.50 0.70			Tr 0.04 Tr		
		132.35	l cm. quartz veinlet.										
		141.45-145.9	Stringers of quartz (low angles).	1174	ł	141.4	142.0	0.60			Tr	Į	
		147.54-147.8	l Intermediate dyke, darker grey, mas- sive.										
						l							

Pipestone Bay

HOLE NO. \_\_\_\_\_\_ P-3\_\_\_\_\_\_ SHEET NO. \_\_\_\_\_3

FOO	TAGE					SAMPL	E				ASSAY	5	
FROM	то		DESCRIPTION	NO.	% SULPH	FROM	FOOTAGE TO	TOTAL	%	7.	AU OZ/TON	OZ/TON	
1.60.0		153153.25	Quartz stringers (2) 1 cm.										
160.8	162.3	fine grained sediments.	yke darker grey with short intersections of	-									
162.3	209.9	Sediments, as before.											
		163.7-163.95	Quartz veinlets (2) 2-3 cm.	1175		163.6	164.0	0.40			Tr		
		163.95-165.9	Intermediate dyke, as before.										
		164.75	Quartz veinlet 1 cm.										
		166.5	Quartz patches.										
		171.8-172.1	Narrow stringers of quartz (3) 0.5 cm.	1176		71.75	172.1	5 0.40			Nil		
		173.5	3 cm. quartz veinlet.	1177		73.25	173.7	5 0.50			Nil		
		174.15	Quartz veinlet with pyrite.	1178		73.75	174.1	5 0.50			Tr		
		185.8-186.55	Minor quartz stringers.	1179 1180 1181		185.8 186.3 186.8	186.3 186.8 187.3	0.50 0.50 0.50			Tr Nil Nil		
		187.55	Quartz veinlet 4 cm.	1182		187.3	187.8	0.50			Nil		
		189.98-190.1	Minor chlorite shear.										
		193.55-194.1	Quartz stringer and quartz chlorite patches, low angle.	$1183 \\ 1184 \\ 1185$		193.5 194.0 194.5	194.0 194.5 195.4	0.50 0.50 0.90			Tr Tr Tr		
		194.9-195.4	Quartz carbonate, chlorite shear.					0.,0					
		206.6	Quartz stringers 2-3 mm. $1/50$ cm. at approximately $30^\circ$ to CA.										
209.9	220.96	Mafic dyke, fine grained laths with ch	, dark grey with coarse 2-3 cm. feldspar hilled edges. Uniform and massive.										
		Note: this n track dyke" o the Rowan Lab	rock likely correlates with the "Turkey lescribed from the lst and 2nd level of ke deposit.										
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NAME OF PROPERTY\_\_\_\_Pipestone Bay\_\_\_\_\_

HOLE NO. \_\_\_\_\_ P-3\_\_\_\_\_ SHEET NO. \_\_4\_\_\_\_\_

FOOT	TAGE					SAMPL	E			ASSAY	s	
			DESCRIPTION		% SULPH		FOOTAGE		 •2	AU 0Z/TON	0Z/TON	
FROM	то			NO.	IDES	FROM	то	TOTAL	 			
		212.55	Quartz veinlet 1.2 cm. at 60 <sup>0</sup> to CA. with disseminated sulphides, mainly pyrite associated, also 5 cm. deep in the dyke also sulphides.	1186		212.3	212.8	0.50		Tr		
		220.9	Fine stringery sulphide mineralization 1-2%.	1187		220.58	220.98	0.40		Tr		
220.96	228.1	Dioritic intrus medium graine massive and l Upper contact	sive, ed, lighter grey equigranular intrusive, hard approximately 40-50% feldspar. t sharp approximately 70° to CA.									
		224224.8	Quartz stringers (3) 0.5-1cm.	1188 1189		224.0	224.8	0.80		Tr		
228.1	300.84	Sediments, as described sections.	before. Occasional short dioritic				227.5	0.90		•		
		250-260.85	Fracturing carbonate, quartz and sericite (?) healed.	1190 1191 1192		258.8 259.3 259.8	259.3 259.8 260.3	$0.50 \\ 0.50 \\ 0.50 \\ 0.50 $		Tr Nil Tr		
		267-270	Fracturing as above, but to a lesser degree.	1102		76 15	276 65	0 50				
		276.65-278.29	9 Iron formation, sulphides pyrite- pyrrhotite 20-30%. Banding about 40° to CA.	1 1 9 4 1 1 9 4 1 1 9 5 1 1 9 6		76.65	277.15 277.65 278.15	0.50 0.50 0.50		Tr Tr Tr		
		282.85-284.7	Fractured, quartz carbonate healed.	1197		/8.15	278.65	0.50		NIL		
		284.7-285	Iron formation with argillitic material.	1198		284.7	285.1 285.7	0.40 0.60		Tr Tr		
		285.8	Short argillitic sections with varying amounts of sulphides.	200		285.7	286.1	0.40		Tr		
		Lower 10 m. v	well banded at 65° to CA.	201		292.8	293.2	0.40		Tr		
800.84	343.8	Chemical sedime light greenis approximately quartz, other carbonate str 30-40%.	ents, sh grey, very fine grained, cherty, with y 50% quartz, some appears to be nodular is look like vein type. Occasional ringers and patches, could go as high as	1202 1203 1204		302.15 302.65 303.15	302.65 303.15 303.65	0.50 0.50 0.50		Tr Tr Nil		
		303.75	Pyrrhotite patches.	ł				l		 		

NAME OF PROPERTY Pipestone Bay

HOLE NO. \_\_\_\_\_\_ SHEET NO. \_\_\_\_\_

FOOT	TAGE			T		SAMPL	Ē				ASSAY	s	
FROM	то		DESCRIPTION	NO.	% SULPH	FROM	FOOTAGE	TOTAL	%	7.	OZ/TON	OZ/TON	
		306.4-306.63	Quartz veinlets.	1205	5	306.4	306.8	0.40			Nil		
		306.63-306.9	Irregular quartz veinlets.	1206	5	306.8	307.2	0.40			Nil		
		313.47-315.4	7 Stringers of sulphides, mainly pyrrhotite 3-5%.	1207 1208 1209		313.47 313.97 314.47	313.9 314.4 314.9	0:50 0.50 0.50			Tr Nil Nil		
		341.2-341.5	Thin stringers of pyrrhotite.	1210		314.97	315.4	0.50 0.40			Tr Tr		
343.8	352.44	Sediments, medium grain fragments si	ed, darker grey with few chloritic liceous and hard.										
352.44	375.	Sediments, light fine g	rained carbonate rich										
		354.3-354.9	Stringer and disseminated sulphides.	1212		354.3	354.8	0.50			Tr Tr		
		355.6 & 356	Minor quartz veinlets.	1214		355.6	356.0	0.40			Tr		
		355.7-356	Intermediate dyke fine grained, dark.										
		360360.4	Intermediate dyke, as above.										
		372372.45	Quartz vein (concordant with faint banding).	1215		372.0	372.45	0.45			Nil		
		374375.	Epidotised bands.										
375.	381.	Sediments, more uniform Faintly band Upper contac	, fine to medium grained, granular. ed 80° to CA. Chloritised, massive. t transitional.										
381.	414.12	Intermediate v fine grained vesicule fil grained euhe	olcanics, , darker grey, massive, with light grey lings. Occasional disseminated fine dral pyrite.										
		383.26	2 cm. quartz with minor sulphides.										
		383386.	Minor siliceous fracture filling 4-5/m. with pyrite and pyrrhotite.	1216 1217 1218 1219		383.1 383.5 384.0 384.5	383.5 384.0 384.5 385.0	0.40 0.50 0.50 0.50			Nil Tr Tr Tr		

NAME OF PROPERTY Pipestone Bay

HOLE NO. \_\_\_\_\_\_ SHEET NO. \_\_\_\_\_6

FOOTAGE					SAMPLE				ASSAYS			
EPON	TO	DESCRIPTION		NO.	NO. UDER FROM				%	%	AU 0Z/TON	OZ/TON
		388.23	Minor quartz veinlet 2 cm. with pyrite, pyrrhotite and arsenopyrite. Quartz veinlet (2 cm) faulted.	1220 1221 1222 1223	1023	388.0 388.4 388.8 407.9	388.4 388.8 389.3 408.3	0.40 0.40 0.50 0.40			Tr Tr Tr Tr	
414.12	424.72	Felsic volcani finer graine appears to b acid intrusi	c ed lighter grey, with chloritic remnants. ee quite siliceous. May be an altered on.									
		419.7-419.8	Quartz veinlet with 10% sulphides. Pyrrhotite-pyrite, sphalerite, very minor chalcopyrite.	1312 1224 1313		419.1 419.6 420.0	419.6 420.0 420.5	0.50 0.40 0.50			Tr 0.48 Tr	
424.72	427.46	Intermediate v same colour, of the above	olcanics, slightly coarser grained with few short described rock.								-	
427.46	439.4	"Felsic" volca as before.	nic or acid intrusive,									
		435.5-439.4	Very minor shearing at 60° to CA.									
439.4	516.6	Sediments fine to medi grey, occasi garnets. Top 4 m. wit stringers of	um grained, darker slightly greenish onal sections chloritised with fractured h fine sulphide dissemination and fine quartz.	1314 1315 1225 1226		439.4 439.9 440.4 440.8	439.9 440.4 440.8 441.2	0.50 0.50 0.40 0.40			Tr Tr 0.52 Tr	-
		441.43	Quartz veinlet 2 cm.	1227		441.2	441.6	0.40			0.06	
		442.75-443.3	8 Irregular quartz.	1229		442.0	442.7 443.15 443.55	0.45			Tr Tr	
		443.68	Quartz veinlet 2 cm.	232		443.55	443.95	0.40			0.01	
		444.6-445.1	Minor banded pyrrhotite.	1233		444.6	445.1	0.50			Tr	
		446.62-451	Minor chlorite healed brecciation.									
		454.45-455.	Slight increase in quartz stringer 7-8/m.	234		454.45	455.0	0.55			Tr	
,		454.9-457.3	Quartz stringers (occasionally contor- ted).	235 236 237		454.8 455.2 455.6	455.2 455.6 457.3	0.40 0.40 0.70			Tr Tr Tr	

NAME OF PROPERTY\_\_\_\_\_\_\_

HOLE NO. \_\_\_\_\_P-3\_\_\_\_\_\_\_ SHEET NO. \_\_7\_\_\_\_\_

FOOTAGE				SAMPLE				ASSAYS					
FROM	то	DESCRIPTION		NO.	% SULPH	EROM	FOOTAGE	TOTAL	7.	%	ozAdh	OZ/TON	
					1023	FROM							
		162 1		1		110 0	((2))	0 (0					
		403.1	contorted quartz verniet.	1230		402.0	403.2	0.40			lr		
		464.35-455.1	Abundant contorted and plain quartz	1239		464.35	465.0	0.65					
			veins.	1240 1241		465.5	467.1	0.50			Tr		
ł				1242		467.1	467.6	0.50			0.01		
		470.4-470.7	Quartz veinlets and stringers.	1243 1244		469.5	470.4	0.90			Tr		
				1316		475.6	476.1	0.50			Tr		
		476.23	Quartz veinlet 7 cm.	1245		476.1	476.5	0.40			0.31		
		478.2	Quartz veinlet 2 cm. minor sulphides.	1317		476.5	477.0	0.50			Tr		
				1246		478.0	4/8.4	0.40			0.01		
		484.5-487.2	Sheared, chloritised with quartz vein-	1247		484.5	485.0	0.50			Tr		
			lets and stringers, also some sulphides	1248		485.0	485.5	0.50			Tr		
			associated with quartz veining.	1249		485.5	480.0	0.50					
				1250		486.5	487.0	0.50			Tr		
		487.2-488.5	Less quartz stringers.	1252		487.0	487.4	0.40			Tr		
				1253		487.4	487.9	0.50			Tr		
		488 5-490	Increased stringsring	1254		487.9	488.5	0.60			Tr		
		400:5 490:	increased stringering.	1256		400.5	409.0	0.50			Nil		
				1257		489.5	490.0	0.50			0.02		
		490499.7	Occasional quartz stringers (l/m).	1258		496.5	497.0	0.50			Tr		
				1259		497.0	497.5	0.50			Tr		
		407 6		1260		497.5	498.0	0.50			Tr		
		497.0	Quartz veiniet 4 cm.	1262		498.7	490.1	0.40					
		499.7-499.9	Increase in quartz stringers.					00.0					
		499.75-499.9	5 Low angle quartz stringer.										
		505.3	14 cm. quartz.	1263		505.3	506.0	0.70			0.06		
		505.95	5 cm. quartz.										
		508.4	and on. slight foliation or shearing										l
			at 70° to CA.										
		509.	Quartz veinlet 1 cm.										
				H	1	1		!		1	•		1

NAME OF PROPERTY Pipestone Bay

HOLE NO. \_\_\_\_\_P-3\_\_\_\_\_ SHEET NO. \_\_\_\_8\_\_\_\_

FOOTAGE				SAMPLE					ASSAYS				
FROM	TO	DESCRIPTION		% SULPH		FOOTAGE				AU OZ/TON OZ/TO			
FROM				IDES	FROM	TO	TOTAL				02/104		
516.6	517.4	Intermediate dyke, medium grey, fine grained, massive, equigranular.											
517.4	549.	Intermediate volcanic, as before.											
		517.4-517.6 Quartz stringers, 1-2 cm.	1264		517.4	517.8	0.4			Tr			
		523.45 & 523.7 Quartz stringers, 2 cm 3 cm.	1265		523.4	523.8	0.4			Tr			
		526.41-528.7 Frequent quartz stringers 4-5/m.	1266		526.3	526.8	0.5			0.01			
			1267		526.8	527.3	0.5			Tr			
			1268		527.3	527.8	0.5			Tr			
			1269		527.8	528.3	0.5			Nil			
			1270		528.3	528.8	0.5			Nil	1		
			1271		528.8	529.3	0.5			Nil			
		533.00 Chloritic patch with minor quartz.	1272		533.0	533.4	0.4			Nil			
		549.00 End of hole.											
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THIS FILE. THE CU	LLED MATERIAL HAD BEEN
PREVIOUSLY SUBMITTE	D UNDER THE FOLLOWING
RECORD SERIES (THE	DOCUMENTS CAN BE VIEWED
IN THESE SERIES):	
THE FOLLOWING REPORTS HAVE	BEEN PREVIOUSLY SUBMITTED:
SURVEY P VAMOS	MINING RECORDER REPORT
O.CT / 83	OF WORK # 8 - 1984
2. REPORT ON ELECTROMA	NETIC - 3 SEE: 2.6877
SURVEY, P. VAMOS	MINING RECORDER REPORT
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