010



DIAMOND DRILLING REPORT

FOR A FOUR CLAIM GROUP

STRACHAN TOWNSHIP

PORCUPINE MINING DIVISION

ONTARIO

NTS 42 B/9

Claim Numbers
1158645 to 1158648 Inclusive



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INTRODUCTION

Property, Location and Access

A group of four claims numbered P-1158645 to 1158648 inclusive and situated in the northwest quadrant of Strachan Township approximately 63 km west northwest of Timmins comprise the property. It straddles the Mallette Inc. all weather, area access road that joins Highway 101 65 km to the southeast at a distance of 13 km west of the Timmins city centre.

Previous Work

Prior to 1991 the only assessment work filed for the area was by Dome Exploration who, in 1971, had contracted Geoterrex to fly an area that covered most of Strachan Township. Line were spaced at 1/8th mile intervals, and oriented at N65 W (Wagg, 1971). Equipment used were a time-domaine em unit & a Geometrics G-803 magnetometer. Only magnetic data were submitted for assessment for claims held. There was no mention of the em results, nor if any ground follow-up work was recommended or performed.

The most recent government data consist of Geological Report 78 and map 2182, scale 1:31,680 (Bennett, 1969), and the results of an airborne em and magnetometer survey for the North Swayze-Montcalm area conducted in 1989 and released in 1990 (OGS, 1990).

During October 1991 geological, magnetic & VLF-em surveys had been conducted on the four claims on flagged lines oriented N40 W. A VLF-em anomaly was delineated and recommended for drilling.

GEOLOGY

Regional Geology

Bennett mapped Strachan Twp. for the Ontario Department of Mines in 1965. Granitic rocks dominate the bedrock geology. The eastern half of the township is underlain by granite / quartz diorite that is part of a large batholith that extends over several townships. To the west are two granite stocks, each 5 to 6 km in diameter. Sandwiched in between is a strip of mafic volcanics 1 to 5 km wide that generally trends NNE-SSW. Locally the trend is more east-west as a result of the intrusions and/or folds.

Outcrops of gabbro occur in the north central part of the township. These are part of a large mafic intrusive complex that occupies approximately 1/3 of Montcalm Twp.

A swarm of NNW striking Matchewan diabase dykes cut all rock types in the area.

Property Geology (form Burns, J.G. 1991)

All rock exposures are located in the southwest portion of the claim group mainly on claim 1158647 (Figure 2). Basalt as both massive and pillowed flows and with minor amounts of inter flow sediment is the dominant rock type. It has been intruded by gabbro and cut by granitic dykes.

The basalts are fine grained, dark green in colour & faintly foliated. They strike east-west & dip steeply south at 70 to 80. Where seen the pillows are stretched, and no top determinations were possible. Inter flow sediments are few, and poorly exposed. They appear to be mainly siltstones with beds 1/2 to 1 cm thick.

The gabbro is massive, fresh in appearance, and composed of 50% mafic minerals & 50% greenish saussuritized feldspars. It is strongly magnetic. Disseminated pyrite is common in amounts up to 1/2%.

An approximate 2m thick granitic dyke striking 115 & cross cutting basalt was noted near the west claim boundary.

1992 PROGRAM

Three ADBGM size core holes, ST-1, 2 & 3, of 763 feet aggregate length were drilled to test the source of the VLF conductors. Hole locations are shown on Figure 1, Plan of VLF Fraser Filter Contours (back pocket). The geology of the holes and assay for samples are plotted on cross sections, Figures 2, 3 & 4 (back pocket). Drill logs are presented in Appendix I, and assay certificates in Appendix II.

A total of 53 samples of half core were taken for assay. All were assayed for gold. In addition 10 of the 53 were also analyzed for copper, nickel & zinc and one for copper and nickel. Assay certificates are appended.

ST-1

Hole ST-1 was drilled northwestward along the grid line for a total of 371 feet. It was designed to cross the heart of the main VLF anomaly, but there is little in the core to explain the source of the anomaly. Locally, ie. 37.7' to 38.0' & 242.2' to 242.7' there are what appear to be beds of interflow sediments, but they are too thin to be the cause. Another possible explanation is the fault that occurs from 300.0' to 302.2'.

The shape of the VLF curve suggests a northward dip for the stratigraphy, and if so, the hole may not have been drilled deep enough. However, the idea of a northward dip is not supported by the core angles.

ST-2

This hole was drilled to cut a VLF peak to the east of the main anomaly. A series of sediments (grit, greywacke and siltstone) and felsic (rhyodacite) crystal were cored for the 223 feet entire length of the hole. The sulphide content within the sediments ranged from trace to 60% (over short intervals) and averaged greater than 10%, but within the rhyodacite units averaged only 1-2%. A 27.2 foot intercept averaged 0.02% Cu & 0.07% Zn. The anomaly is adequately explained by the sulphides.

ST-3

The purpose of ST-3 was to take a second, closer to surface cut at the main anomaly. As for ST-1 only local short intervals of sulphide mineralization or the fault from 153.0' to 156.7' were cored that might possibly causes for the anomaly.

Rock Types Cored

- 1 (a) Mafic Volcanic - amphibole rich

This was the predominant unit cored in ST-1 & 3. It is dark green to black, fine grained, well foliated and locally weakly magnetic, and is composed of greater than 85% amphibole with the remainder being feldspar.

- 1 (b) Mafic Volcanic - amphibole & olivine

This unit was only seen in ST-1. It is light to mid greyish green, fine grained, soft & weakly to moderately magnetic. Amphibole is the main mineral constituent, but remnant olivines are obvious.

- 2 Rhyodacite Porphyry (crystal tuff)

This rock type varies from light to dark greyish green, is hard, siliceous, moderately foliated and biotitic and contains between 5 & 15% 1/16 inch (maximum) white feldspar phenocrysts.

- 3 Sediment

As seen in ST-2 this unit is highly variable and may be represented by grit (of mafic or siliceous composition), greywacke or siltstone. The more mafic members may contain up to 10% 1/16 inch garnets. Some of the quartz veins described in the sample intervals may in fact be siliceous grit.

- 4 Felsic Porphyry Dykes

The dykes are normally less than 2 feet thick, grey or orange in colour and contain approximately 20% 1/8 inch feldspar phenocrysts.

- 5 Diabase

Diabase dykes were only cored in ST-1. The rock is very fined grained, mid grey and moderately magnetic.

DISCUSSION & RECOMMENDATIONS

The drill program was successful in that sulphide mineralization was cored in ST-2 within a sediment/felsic tuff sequence of rocks. Moreover, anomalous assays in copper and zinc were obtained over a 27.2 foot core length. Gold values were, however, disappointingly low.

Onfortunately, no probable cause to explain the main peak of the VLF anomaly was found. In order to obtain a better understanding of the attitude of the anomaly a horizontal loop Max-Min survey is recommended prior to additional drilling.

Respectfully submitted,

James G. Burns

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APPENDIX II

Assay Certificates



Swastika Laboratories

Assaying - Consulting - Representation

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2W-1045-RA1

Date: OCT-06-92

Assay Certificate

Company: JAMES BURNS

We hereby certify the following Assay of 52 SPLIT CORE samples submitted SEP-29-92 by .

Sample Number	Au g/tonne	An check g/tonne	Ср Р РМ	NI PEM	Zn PHM		
3165	Nil					,	,
3166	0.01				-		
3167	0.02	•		-			•
3168	0.01	0.01					
3169	Ni 1						
3170	Ni 1						
3171	Ni 1			_			
3172	Ni l						
3173	Ni 1			-	-	•	
3174	0.01		228	35	126 ·		
3175	0.02		66	72	142	,	
3176	0.02	0.02	493	58	4670	<u>.</u>	
3177	0.02	•	486	36	985		_
31 78	0.03	·	627	- 38	382	•	•
3179	Ni 1		28 '	87	283		
3180	0.01	0.02	378	39	2130		
3181	0.02		280 .	34	242		
3182	0.01		248	35	512		
3183	0.01		83	· 40	470		
3184	Ni 1						
3185	Ni l						
3186	Ni 1			-			
3187	Ni l						
3188	Nil					-	
3189	Nil						
3190	Nil						
31 9 1	Ni l			-			
3192	Ni 1						:
3193	Ni l						•
3194	Ni 1	-					

P.O. Box 10, Swastika, Ontario Pok 1T0 Telephone (705) 642-3244 FAX (705)642-3300



Swastika Laboratories

A Division of TSL/Assayers Inc.

Assaying - Consulting - Representation

Page 2 of 2

Assay Certificate

2W-1045-RA1

Company:

JAMES BURNS

Date: OCT-06-92

Project

We hereby certify the following Assay of 52 SPLIT CORE samples submitted SEP-29-92 by .

	Sample Number	Au g/tonne	Au check g/tonne	Cu PPM	NI PPM	Za PBM	
	3195	0.01	Ni 1				
	3196	Nil					•
•	3197	Ni l			•		
	3198	Ni l				•	
	3199	Ni 1					-
	3200 NOT RECD						
	3201	0.06	-				
	3202	Ni 1			•		•
	3203 ·	0.01	•	•			
_	3204	Ni 1					•
	3205	Nil					
	3206	Ni 1	0.01				
	3207	Ni 1					
	3208	Ni 1		•		-	
	3209	Ni l					
	3210	Nil					
	3211	Ni l		•			•
	3212	Ni l	Ni 1				
	3213 .	0.02					•
	3214	Nil					•
	3215	Nil			~~~~~~		
-	3216	Ni 1		•			
	3217	Nil			-		
			•	-			

Centified by Donna Handrer



Swastika Laboratories

Assaying - Consulting - Representation

Assav Certificate

2W-1088-RA1

Company: JAMES BURNS

Date: OCT-13-92

Project:

We hereby certify the following Assay of 1 SPLIT CORE samples submitted OCT-08-92 by .

Sample	Au	. Cu	Z n
Number	g/tonne	PPM	PFM
3200	0.03	35	61

P.O. Box 10, Swastika, Ontario POK 170 Telephone (705) 642-3244 FAX (705)642-3300 APPENDIX I

Drill Logs

LOGGED BY J. G. Burns ANALYSIS HOLE Nº. S.Z-200 Au PAGE DEPTH 7. 0.45 LENGTH % 7 0 50 - 5 650 21.7 38.0 5 COORDINATES : 600 M 6.4.55 28.5 17.7 SAMPLE Nº FROM LOCATION 7213 32/2 32// ELEVATION LEVEL woderot cochust moc S 11200 50° me 1 . V E DESCRIPTION (i) 25° ACID TESTS 6/2 6 50. 138 Volcanic 0. 25 וילרע 763 Mahe Volcanie 57.8 6 17.0 -30, 3200 3200 Ц, - 5-0 5 ٥ BEARING : PLUNGE : DEPTH : FROM なが į 0 O

ANALYSIS HOLE Nº. 57-/ PAGE 2. OF 7 LOGGED BY_ LENGTH A. O. DEPTH 7 107.7 2 242.2 FROM LOCATION SAMPLE Nº COORDINATES: 3216 ELEVATION LEVEL Jon sort 5~6 n 6005 corpunated 100 VOV 11 111 G DESCRIPTION ACID TESTS incah cach Grains 5 + ron 9 Decomment. sect, ment ar valent 6 522 - 576. · 242. 7 236-7 - 216-5 97.2 - 1040 0.101- 1.001 1242-126 8 grained 0.6%1 @ 0.162 ဥ BEARING : DEPTH : PLUNGE : FROM

ANALYSIS PAGE 3 OF 3 HOLE NS. __ TT-_ L LOGGED BY_ DEPTH 111 lin LENGTH 1.8 304.8 21.70 ဥ 3030 309.2 FROM LOCATION SAMPLE Nº 32/15 COORDINATES: 3216 ELEVATION LEVEL 26.7 . CS @ 7412 kluic dakes 5000 C DESCRIPTION ACID TESTS 20% 212-1 - 312: 6 1.07.2 - 2.60.1 129-1-280-2 209.2 - 3170 201.0 - 304.8 300.0 - 302.2 2492-258.0 Eod 3// 6 0./21 ဝ BEARING : DEPTH : PLUNGE : FROM

2130 4670 183 242 2/5 77 9 14 Calpon N. (100 m) 44 14 \$ 39 7. LOGGED BY J. G. Burns ANALYSIS PAGE / OF 4 HOLE NR. ST- 2 378 248 228 28 280 8 627 99 486 493 20.0 200 10.0 200 000 100 0 700 00 DEPTH LENGTH 6.0 1.1 9 1 1.1 5.3 2.8 0.4 t. 5 SQ.5/ 580 84.8 69.5 22.2 ; 8 85.2 ဥ 1.59 COORDINATES: 425 W 84.8 77.2 52.0 FROM 69.5 71.16 LOCATION 59.5 80.1 580 SAMPLE Nº 081 17418 7/2/2 3/78 3123 2612 1.83 3182 3176 31.79 181 ELEVATION LEVEL DESCRIPTION ACID TESTS . SS @ Sediment Collar 223 -430 000 000 - 50° 52.0 85.2 ر . رن ဥ BEARING : PLUNGE : 85. FROM 25.0 DEPTH d

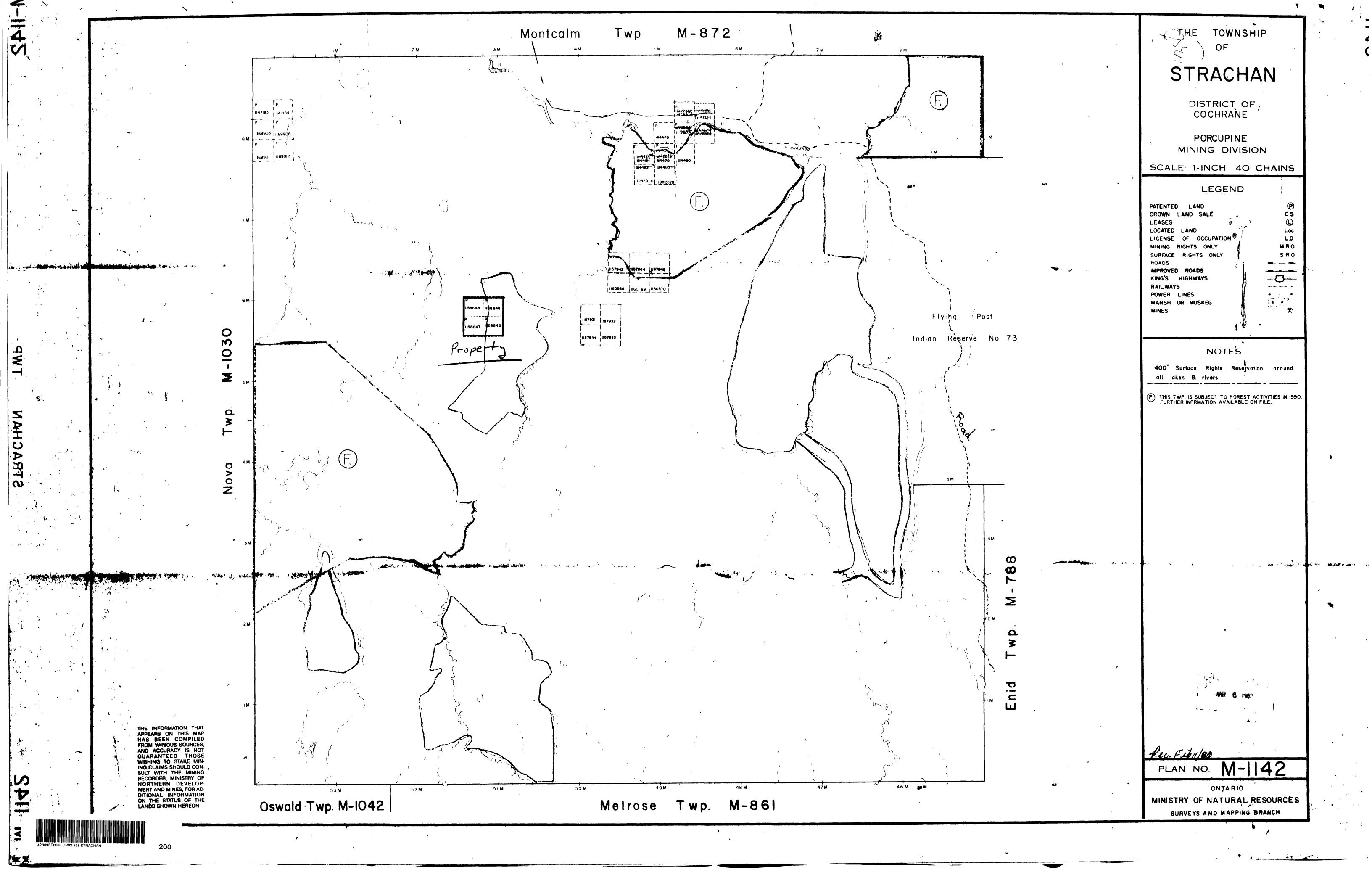
ANALYSIS PAGE 2 OF 4 HOLE Nº. 57-2 LOGGED BY DEPTH LENGTH | AL . = 4.9 5.7 7: 102.5 102.9 88 C 85.6 30.1 ဥ 102.5 881 85.2 FROM 8.56 LOCATION 7.08 SAMPLE Nº COORDINATES :_ 71812 3186 181 3/88 3/80 ELEVATION LEVEL 2600 DESCRIPTION . 2 2 ACID TESTS Sed month 1023 102:5 95.8 ? 8 ဝ BEARING : DEPTH : PLUNGE : 107.17 FROM 812.8

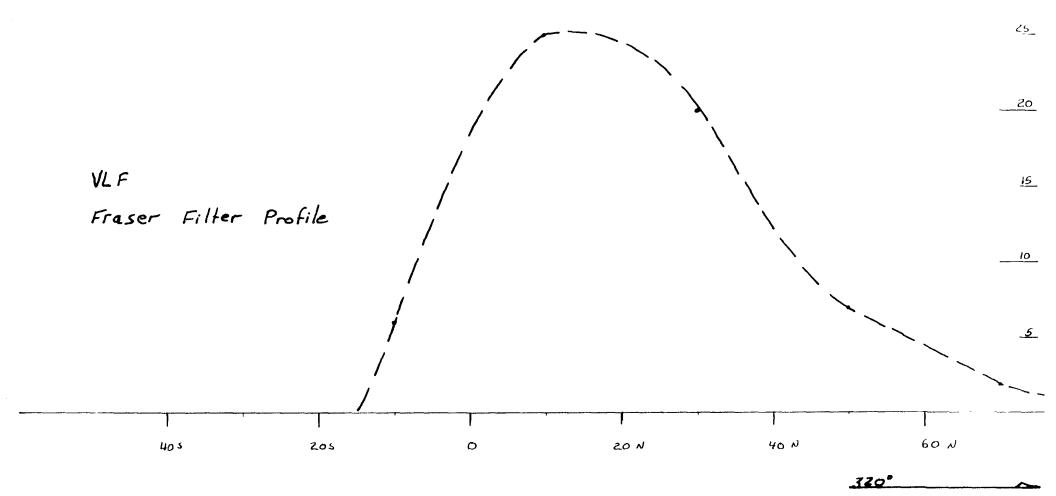
ANALYSIS HOLE Nº. 57- 2 PAGE 3 OF 4 LOGGED BY 10.0 DEPTH LENGTH S. C. 4.3 8.0 5.0 2. 5.0 5.0 1520 1480 128.0 0.87/ 0.5 0.071 2.411 1220 ဥ 0.8%/ 1039 0.01 0.87/ 138.0 122.9 FROM LOCATION SAMPLE Nº COORDINATES: 16 /2 3189 2612 1.6% 1,96 3180 31.92 16/2 ELEVATION LEVEL MARCOS micol a So Co 12. יכר פני ש/מר 141-14 24022 bok. C. A DESCRIPTION inceous soit c/4.1/2/ Co 125 ACID TESTS Mirasin Flow massing sharb 4 Sharp d 122.4- 122.9 Rhyporiacit 122.9 Maho j. 110.5 0.011 ဥ BEARING : . DEPTH : PLUNGE : 6: 22/ FROM [/4:3 6.601 0.0//

ANALYSIS PAGE 4 OF 4 HOLE Nº. 57. 2 سامام سا LOGGED BY 90.0 000 -. . DEPTH LENGTH 4.2 5.0 20 5.0 5:0 5.0 5.0 9.0 5.0 5.0 5.0 Si 203.0 2080 2/5.3 220.3 0.75 0.89/ 0.66 1870 0.880 ე.*95/* 2270 0691 0861 000 ဥ 10.861 208.0 780 187.0 1970 203.0 120 0.881 059/ 0.891 1530 0.85/ 220.7 2/15-7 FROM LOCATION SAMPLE Nº 3205 COORDINATES: 7206 1207 3207 3200 2202 3208 7204 5672 3197 3/98 7209 1201 22.00 ELEVATION LEVEL 199511.2 trac kires 0121 .09 50 542 WINS DESCRIPTION Shar a 10 . 0% © 61412 ACID TESTS 7.0 70% 500,000 183 2/9-1-220-3 Phas dace FOH 223 c 220.3 22.10 6 BEARING : . PLUNGE : DEPTH : 245.3 2.00.7 FROM

LOGGED BY J.G. Burn ANALYSIS PAGE / OF 2 HOLE Nº. ST-3 LENGTH A. 4/6 70.0 10.0 100 DEPTH 2.0 6 , , 48.7 56.1 7/0 49.6 ဥ COORDINATES: 600 - W 48.0 48.3 0.95 9.6% FROM LOCATION SAMPLE Nº 3/67 2/68 ELEVATION LEVEL carbonat misor ha coxeme . 05 @ 14 in 12in + garnet @ 40° with DESCRIPTION ACID TESTS 0.45° ot 12. Foliation @ 45° Overbarden olivin 480 -487 2.29-6.99 000 6 45 000 27.0 0.691 Ð 5 BEARING : PLUNGE : DEPTH : FROM 270

ANALYSIS HOLE Nº ST. Z PAGE 2 OF 2 LOGGED BY DEPTH nil 2.25 LENGTH 0.5 6 6 4.5 156.7 157.6 0.2%/ 146 -5 0.651 9 153.0 147.0 74.0% 0 641 FROM LOCATION SAMPLE Nº COORDINATES : 3217 2172 3171 ELEVATION LEVEL ,090 broken rock 057 DESCRIPTION coords 1/8" when હ Poliabion & 48° ACID TESTS colore change tracture sour 124 - Ela MONSON 166.2 -167.3 139.3 - 140.75 0 2 800 97.5 102.4 1180 76 90 9 BEARING : DEPTH : PLUNGE : FROM





- 5 Diabase
- 4 Felsic Porphyry Dykes
- 3 Sediments: grit, greywacke, siltstone
- 2 Rhyodacite Porphyry (crystal tuff)
- 1 Mafic Volcanic a) amphibole rich b) amphibole + olivine

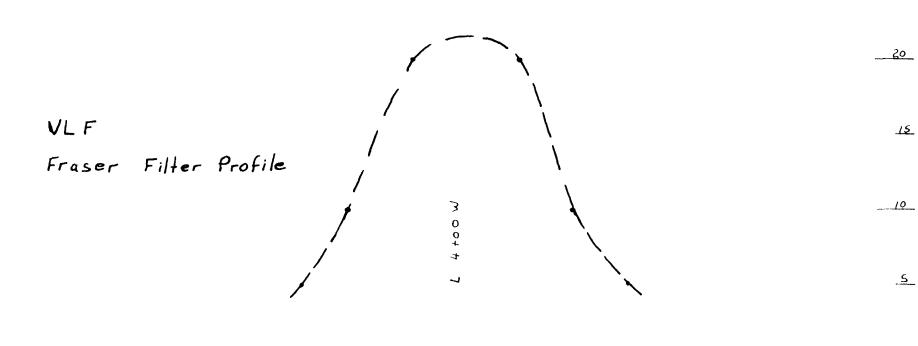
Figure 2

DDH ST-1

1: 500



0 10 20 %



57-2 Q

- 5 Diabase
- 4 Felsic Porphyry Dykes
- 3 Sediments: grit, greywacke, siltstone
- 2 Rhyodacite Porphyry (crystal tuff)
- 1 Mafic Volcanic a) amphibole rich b) amphibole tolivine

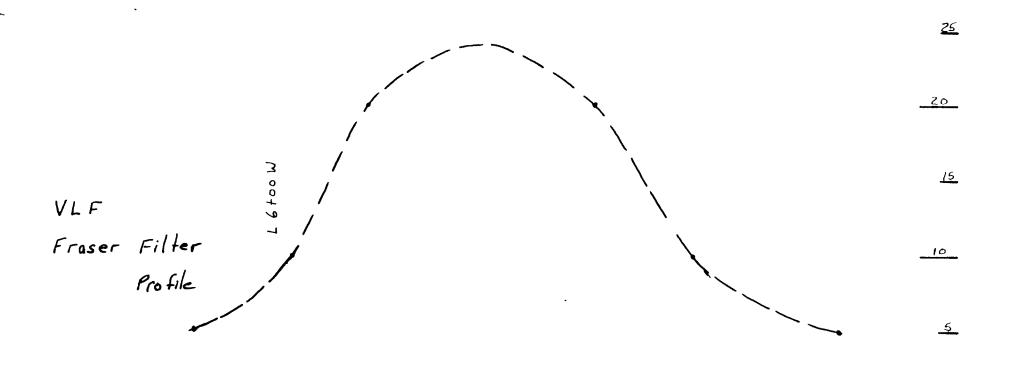
Figure 3

DDH ST-2

1:500



0 /0 20 m



Contraction of the second of t

5 Diabase

4 Felsic Porphyry Dykes

3 Sediments: grit, greywacke, siltstone

2 Rhyodacite Porphyry (crystol tuff)

1 Mafic Volcanic a) amphibole rich b) amphibole t olivine Figure 4

DDH ST-3

]:500



