#### DRILLING REPORT

Hatsoff Property

Golden Mining Division

Located 40 Km WSW of Invermere, B.C.

NTS 82 K/7E Lat. 50°27'N

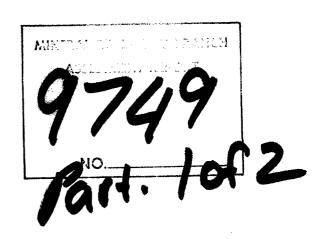
Long. 116°34'W

Owned And Operated By
Utah Mines Ltd.

Work Performed Between June 17 - September 20, 1981

Tom Pollock, M.A.Sc. Utah Mines Ltd.

Vancouver, B.C. November 9, 1981



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## ILLUSTRATIONS (Map Pocket)

						Plate
DIAMOND	DRILL	HOLES	COLLAR	LOCATION	PLAN	
(Sca	le 1:50	000)				1

#### SUMMARY

The 1981 drill program on the Hatsoff Property consisted of extending a preexisting hole and drilling a new hole, both from the same collar. A total of 2133.9 meters have been drilled on the property to date of which 1432.6 meters were drilled in 1981. Both holes were drilled to test a zone of quartz-sericite-pyrite-molybdenite stockwork exposed on surface.

Although the first hole drilled (HO-1) returned discouraging results in regards to alteration and mineralization, the lower 600 meters of the second hole (HO-2) had sporadic but locally strong argillic, phyllic and potassic alteration.

#### INTRODUCTION

The 1981 diamond drill program for the Hatsoff Property was carried out during the period from June 17 - September 20. During this time, a previous hole was extended and a new hole was completed. To date, two holes have been drilled from the same collar on the property.

This report will claim the major costs of this summers drill program for assessment purposes. Some of these costs include:

- 1.) direct drilling costs
- 2.) helicopter costs
- 3.) fuel costs

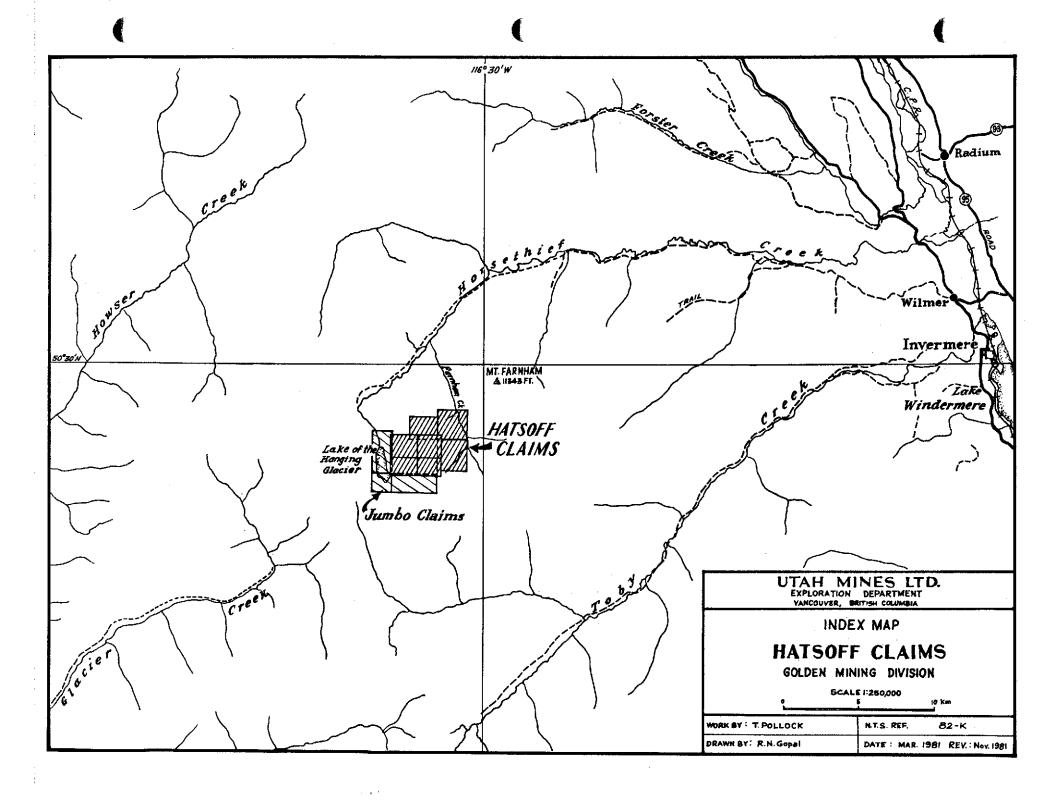
The following Utah Mines Ltd. personnel supervised and performed the geological work for the Hatsoff Property:

- T. Pollock geologist
- T. Doust, J. Rybij, M. Sainas, and
- N. Schmidt field assistants

#### LOCATION AND ACCESS

The Hatsoff Property is located approximately 40 kilometers west-southwest of Invermere, B.C., in the extremely rugged and glaciated terrain of the Purcell Mountains. The property consists of ten claims (109 units) covering an area of 2414 hectares. All claims are above treeline with elevations ranging from 2200 to 3200 meters.

Access to the property is by a dirt two-wheel drive road which leaves Highway 95 at Radium and proceeds westerly and southerly along Horsethief and Farnham Creeks. Helicopter access is required for the last four kilometers from Farnham Creek to the property - a vertical distance of 1200 meters.



#### HISTORY

The area was first staked as a tungsten prospect (Sec claims) by Union Carbide Ltd. After a limited examination in 1972 the claims were allowed to lapse as no assessment was filed.

In July 1978, during the course of an examination of the above tungsten prospect by Utah geologists, a molybdenum occurrence was discovered. The claims Hatsoff 1-4 totalling 30 units were staked and following this the showings were mapped at a preliminary level (scale 1:7,500).

Detailed mapping (scale 1:5,000) of the Hatsoff 1-4 claims was completed in July and August 1979 with the conclusion that the Property had good potential as a porphyry molybdenum prospect. In August 1979 Hatsoff 5-7 claims (totalling 52 units) were staked expanding the Property to the northeast towards the Farnham Creek Valley.

The reader is referred to the 1979 assessment report by B. Bowen for the geology and geochemistry of the Hatsoff Property.

Drilling on the Property began last summer where a single hole was drilled to a depth of 701.3 meters. This hole was extended to a final depth of 914.4 meters this summer in addition to a second hole drilled from the same collar

to a depth of 1219.5 meters.

Three additional claims (24 units) were staked in 1981 called the Jumbo claims. They were added to the southwest corner of the seven existing Hatsoff claims towards the direction of the Lake of the Hanging Glacier. The Property is 100% owned and operated by Utah Mines Ltd.

#### DIAMOND DRILL PROGRAM

Longyear Canada Limited utilizing a Longyear "44" diamond drill performed the required drilling for this summers drill program. Drilling began on hole HO-1 on July 13 at a depth of 701.3 meters with the use of BO drill rods. The smaller core size was necessary at depth (NO used above 701.3 meters) to aid in the drilling process. HO-1 was terminated at 914.4 meters due to the lack of any significant mineralization or promising geology.

HO-2 was started on July 25, 1981 from the same collar as HO-1. The hole was drilled using NO drill rods to approximately 750 meters then BQ rods were used to finish the hole at 1219.5 meters. This hole was terminated because of the lack of promising mineralization and deteriorating weather conditions.

To date two holes have been drilled on the Property totalling 2133.9 meters of which 1432.6 meters were drilled this summer. Both holes were completely contained to claim Hatsoff #2. Sperry-Sun tests were taken on average of every 300 meters in both holes to determine their attitude with depth. The two following tables give the particulars for the two holes drilled.

All the core drilled during this summer was logged in detail by a Utah Mines Ltd. geologist. After the core was logged,

it was split in half with one-half of the core returning to the core box to be stored on the porperty in exterior metal core racks. Of the remaining core, alternate three meter sections were sent to Chemex Labs Ltd. for analysis. The remaining three meter sections were bagged and stored in a box on the property. The wooden core boxes on the property are clearly labelled with metal tags giving the hole and box number, and the meterage contained within. The metal core racks containing a split section of the core from the two holes drilled are roughly 30 meters southeast of the collar for the two holes.

The drilling was generally in competent rock with an average core recovery greater than 95%.

Further data accompanying this drill report is found in the Appendices following the report. The data consists of the complete diamond drill logs and associated assay logs for both holes drilled, found in Appendices D and E respectively. A statement of qualifications, statement of cost and major contract invoices are given in Appendices A, B and C respectively.

Table I

Pertinent data concerning HO-1.

Co-ord N.	s (M) E.	Date ——	Elev.	Depth (M)	Dip	Azimuth
12790	12410	Aug 7/80	2930	0	-60.0°	012°
		Aug 28/80		701.3	-56.4°	031.5°
		Jul 13/81		701.3	FF 20	0000
	Jul 24/81		792.5 914.4	-55.3° -48.0°	033° 039.5°	

Table II

Pertinent data concerning HO-2.

Co-ord N.	s (M) E.	Date ——	Elev.	Depth (M)	Dip	Azimuth
12790	12410	Jul 25/81	2930	0 609.6 914.4	-90.0° -86.0° -85.5°	- 026° 031°
		Sept 5/81		1219.2	-85.5°	041°

#### DRILL HOLE GEOLOGY

#### Lithology:

Drilling to date has aided greatly in the understanding of the subsurface geology on the property.

The geology encountered in the two holes basically consists of three major rock types, two of which are quartz monzonite while the other is a quartz porphyry unit. Both quartz monzonite units are part of the Hanging Glacier Stock (Cretaceous), the coarser of which is its border phase. The stock which is roughly 1.5 km in diameter intrudes several sedimentary sequences on the property such as the Helikian Dutch Creek Formation and the basal formation of the Windermere (Hadrynian) Series.

The border phase of the Hanging Glacier Stock was intruded by a quartz porphyry plug which is exposed on surface in an oval shape measuring 150 by 300 meters. The neck of the plug is a mixture of lens shaped bodies of quartz monzonite, quartz porphyry dykes and large masses of quartz porphyry. The plug has a maximum thickness of 300 meters. The forceful intrusion of the plug is evident from the very strong fracturing in the quartz monzonite near the contact between the two rock types.

Both holes below approximately 500 meters were in the medium grained phase or the main body of the Hanging Glacier Stock.

Although HO-2 intersected over 600 meters of this stock, the rock was very consistent in texture and composition. However, the lower sections of HO-2 did show encouraging results in regards to alteration and mineralization in relation to HO-1 as described in the following two sections.

Several dyke types were intersected in both holes but their numbers were limited. The dykes present were as follows:

- 1.) feldspar-quartz-biotite porphyry
- 2.) aplite
- 3.) quartz porphyry
- 4.) quartz-feldspar porphyry
- 5.) white quartz- plagioclase dykes with disseminated molybdenum

#### Alteration:

The most prominent form of alteration logged in HO-1 was present as alteration envelopes associated with quartz veins. These alteration envelopes consisted of quartz, sericite and pyrite; their width being directly proportional to the width of the vein. Where there was a stockwork of veins with these envelopes in quartz monzonite, the typical salt and pepper texture of the rock was altered to a sparkly texture from 10 - 20% contained sericite content.

Weak propylitic alteration was ubiquitous in quartz monzonite whereas sericite was present in the quartz porphyry to the extent of a few percent. Secondary potassium feldspar was occasionally present in quartz veins and their alteration envelopes in the last 200 meters of the hole.

All the alteration types logged in Ho-1 were present in HO-2 in addition to random whole sections of the rock pervasively altered to one of the following: clay, sericite-quartz-pyrite or secondary potassium feldspar. Argillic alteration characterized by the presence of clay minerals and carbonate was concentrated between 710 and 790 meters. The extent of alteration varied from very weak to strong. Argillic alteration was present below 800 meters but only in two other locations not greater than 9 meters wide.

The most important and pervasive alteration encountered in HO-2 was potassic alteration. Characterized by secondary potassium feldspar this alteration type occurred sporadically from 832 to 1158 meters. The greatest intersection of continuous potassic alteration was 26 meters. The alteration varied from secondary K-feldspar in alteration envelopes, to solid salmon pink zones of secondary K-feldspar.

The only significant section of phyllic alteration was from 1128 to 1136 meters. A majority of the rock in this section consisted of quartz, sericite and pyrite.

Locally there were some overlapping of these three alteration types over distances not greater than a meter or two.

#### Mineralization:

The best mineralization by far was intersected in the potassic

alteration zone, notibly between 1068 and 1101 meters. The molybdenite occurred as disseminations where the rock was totally altered to K-feldspar, as coatings on fractares and in quartz veins. The number of quartz veins with molybdenite in this potassic zone were at least double in number over a given length compared to the rock out of this section.

Geochemical values from HO-2 in the medium grained phase of the Hanging Glacier Stock showed anomalous values in relation to the other rock types encountered in the drilling. It should be noted however that the geochemical values from HO-1 in the same medium grained phase were no higher than the surrounding units. Molybdenite present in the rock types other than the medium grained phase occurred in guartz veins commonly containing pyrite. These veins averaged less than a centimeter in width and were never present to the extent, on average, of one per meter.

No other minerals have been encountered in the drilling thus far in quantities to be considered as economic. Other minerals logged were sphalerite, fluorite, scheelite, gypsum, beryl, calcite and magnetite.

#### CONCLUSIONS

The limited amount of drilling so far carried out on the Hatsoff molybdenum prospect has outlined several interesting features of the property. The most significant of these is the development of a sporadic but mappable alteration pattern.

Results from HO-2 indicate that the alteration found in the medium grained phase of the Hanging Glacier stock increases towards its center, both horizontally and vertically. Ho-2 is approximately 450 meters closer to the center of the stock than the bottom of HO-1 and shows significant increases in alteration. HO-2 is still a few hundred meters east of the stock's center and so subsequent holes will be drilled in a westerly direction to test for further increases in the alteration of the stock.

Associated with the increase in potassic alteration was a significant increase in the molybdenum in the rock. Below 500 meters in HO-2, quartz veins with molybdenum were on average five times more abundant than in HO-1.

Finally, HO-2 intersected several white quartz and plagioclase dykes with considerable disseminated molybdenum. These dykes were not present in HO-1 and it is possible that they increase towards the center of the stock and lead towards a major mineralization source.

Drilling in the future will proceed towards the center of the

Hanging Glacier Stock to test for further increases in alteration and mineralization. It is believed that the property has excellent potential which can be tested only by further drilling.

APPENDIX A

STATEMENT OF QUALIFICATIONS

#### STATEMENT OF QUALIFICATIONS

The field work for this report was done by the following person whose qualifications are outlined below:

T. Pollock, Geologist for Utah Mines Ltd., Vancouver, British Columbia. Completed Hon. B.Sc. (geology) at Queen's University, Kingston, Ontario in 1977; completed M.Sc.A. at McGill University, Montreal, Quebec in 1980; employed by the Ontario Geological Survey as an assistant geologist during the 1974 and 1975 summer field seasons; employed by Inco Limited as a field geologist for the 1976, 1977 and 1978 summer field seasons; employed by the Geological Survey of Canada as a geologist, December 1977 to April 1978; employed by Kelvin Energy Ltd. during the 1979 field season as a field geologist; employed by Utah Mines Ltd. from May 1980 to date as a geologist under the supervision of J.B. Richards, P. Eng.

#### APPENDIX B

STATEMENT OF COSTS

#### STATEMENT OF COSTS

	Total Cost	Cumulative Total
Longyear Canada Inc.	150,599.33	150,599.33
Shirley Helicopter	52,227.44	203,826.77
Quasar Helicopter	20,012.00	222,838.77
Okanagan Helicopter	6,778.76	229,617.53
Gulf Canada Ltd.	9,881.84	239,499.37
Eddies Fairmont Grocery	8,958.65	248,458.02
Westcoast Drilling Supplies	8,787.28	257,245.30
Mohawk Terminals Ltd.	8,483.80	265,729.10
Earl's Machine Shop Ltd.	7,500.00	273,229.10
Chemex Labs Ltd.	3,528.70	276,757.80
Miller & Brown	2,246.78	279,004.58

Therefore, the total value of expenditures towards the Hatsoff Property in 1981 were at least \$279,004.58.

# APPENDIX C MAJOR INVOICES

Utah Mines Ltd., UTAH MINES LTD. EXPLOBATION DEPT. Suite 1600, 1050 W. Pender St., Vancouver, B.C. V6E 3S7

To:

Longyear Canada Inc.

CONTRACT DRILLING DIVISION

721 Aldford Avenue

Annacis Island, New Westminster, B.C. V3M 5P5

Telephone: 604-524-2511

Telex: 43-51280

Invoice No. 1436

Cust. No. 6051 Job No. 6292

Dest. 062

Invoice for diamond drilling performed on Hatsoff Project near Invermere, B.C. during period July 7-14, 1981 per agreement.

Utah Hatsoff

Invoice date: for July 1981 August 14/81

Hechard

·	•		
Hole No. Size From BQ Wireline 2301	$\frac{\text{To}}{2395} \qquad \frac{\text{Total}}{94}$	Rate 21.00	Amount 1,974.00
Mobilization Lump sum			2,800.00
Client Charges 6 pails Polymer (HS) @ 145.60 Direct Transportation System		873.60 421.53 1,295.13	•
<b>_</b> .	Plus 18%	233.12	1,528.25
Moves Move in to Hole H.O. 1 44 hours @ 66.00 149 hours @ 28.00		2,904.00 4,172.00	7,076.00
Hole Reduction Hole H.O. 1 22 hours @ 66.00			1,452.00
Reaming Casing, Cave and Lost Cir Hole H.O. 1 34 hours @ 66.00 1 NQ Bit SI35849 1 NQ Shell E4470	culation)*  360.40 196.10 556.50	2,244,00	
Plus 18%	100.17	656.67	2,900.67
*Prorated diamond recovery - see ater invoice, if applicable.		\$	17,730.92



UTAH MINES LTD. EXPLORATION DEPT.

Utah Mines Ltd., Suite 1600, 1050 W. Pender St., Vancouver, British Columbia V6E 3S7

## ongyear Canada Inc.

CONTRACT DRILLING DIVISION

721 Aldford Avenue

Annacis Island, New Westminster, B.C. V3M 5P5

Telephone: 604-524-2511

Telex: 43-51280

Invoice No. 1617 Cust. No. 6051 Job No. 6292 Dest. 062

Utah Hatsoff Invoice date: August 25, 1981

for August 1981

Invoice for diamond drilling performed on Hatsoff Project near To: Invermere, British Columbia during period July 15-August 15, 1981 per agreement.

Hole No.	Size BQ Wireline	From 2395 2500	To 2500 3000	Total 105 500	Rate 21.00 23.10	Amount 2,205.00 11,550.00
Н02	Overburden NQ Wireline	Ø 22 1500 2000	22 1500 2000 2351	22 1478 500 351	Hourly 18.35 19.45 21.00	Rate - 27,121.30 9,725.00 7,371.00
•	BQ Wireline	2351	2493	142 3098	21.00	2,982.00 60,954.30

Left in Hole Hole HOl 80 NQ 10' rods

no charge

Reaming Casing, Cave	and Lost Cir	cculation	
55 hours @ 66.00		3,630.00	
1 BQ Bit GR66942	328.60	-,	
1 BQ Shell E2643	153.70		
1 BQ Shell E2649	153.70		
D3 2.00	646.00		
Plus 18%	114.48	. 550 110	
		750.48	4,380.48
*Hole HO2		,	4,300.40
117 hours @ 66.00	S .	7,722.00	
1 BQ Bit GR66944	328.60	,	-
1 BQ Shell E3349	153.70		
<b>—</b>	482.30		
Plus 18%	86.81		
		569.11	יי וחר ס

\*Prorated diamond recoveries - see later invoice

12,671.59

## Longyear

Utah Mines Ltd. Invoice No. 1617 2...

Client Work and Testing		4		
Hole H01 3 hours @ 66.00.		198.00		
Hole HO2 3 1/2 hours @ 66.00		231.00		429.00
Moves Hole HO1 to HO2 45 hours @ 66.00				2,970.00
Penetration of Overburden  Hole HO2  11 hours @ 66.00  1 NW Shoe E796	148.40	726.00		
Plus 18%	26.71	175.11		901.11
Hole Reduction Hole H02 17 1/2 hours @ 66.00		,		1,155.00
			Ś	79.081.00

Longyear Canada Inc.

Annacis Island, New Westminster, B.C. V3M 5P5

CONTRACT DRILLING DIVISION
721 Aldford Avenue

Telephone: 604-524-2511

Telex: 43-51280

## Longyear

Longyear Canada Inc. CONTRACT DRILLING DIVISION

ONTRACT BRIEFING BITTISTO

721 Aldford Avenue

Annacis Island, New Westminster, B.C. V3M 5P5

Telephone: 604-524-2511

Telex: 43-51280

Invoice No. 1626 Cust. No. 6051 Job No. 6292 Dest. 062

Utah Hatsoff

Invoice date: September 15/81

30,748.90

for August 1981

Mines Itd

Utah Mines Ltd., Suite 1600, 1050 W. Pender St., Vancouver, British Columbia V6E 3S7

To: Invoice for diamond drilling performed on Hatsoff Project near Invermere, British Columbia during period August 15-28, 1981 per agreement.

Hole No. Size HO2 BQ Wireline	From 2493 2500 3000 3500	To 2500 3000 3500 3527	Total 7 500 500 27 1034	Rate 21.00 23.10 25.90 29.50	Amount 147.00 11,550.00 12,950.00 796.50 25,443.50
Client Charges - attached Westcoast Drilling Supplies	Ltd.	Plus 18	8	1,049.40	1,238.29
Moves Hole H02 4 hours @ 66.00					264.00
Client Testing Hole HO2 1 hour					66.00
Reaming Casing, Cave and Lo  Hole HO2  48 hours @ 66.00  1 BQ Bit GR66935 328.6  1 BQ Shell E3351 153.7  482.3  Plus 18% 86.8	0 0 0	3,168.00			
Prorated diamond recovery - see later invoice	·	569.11		2 727 11	
Hole HOl Prorated diamond recovery-s	ee later	invoice		3,737.11	3,737.11

10/14/81

Utah Mines Limited, Suite 1600, 1050 W. Pender St., Vancouver, British Columbia V6E 3S7

## Longyear Canada Inc.

CONTRACT DRILLING DIVISION

721 Aldford Avenue

Annacis Island, New Westminster, B.C. V3M 5P5

Telephone: 604-524-2511

Telex: 43-51280

Invoice No. 1838

Cust. No. 6051 Job No. 6292

Dest. 062

Utah Hatsoff

Invoice date: October 2/81

for September 1981

Invoice for diamond drilling performed on Hatsoff Project near To: Invermere, British Columbia during period August 28-September 7, 1981 per agreement.

Hole No.	<u>Size</u> BQ Wireline	$\frac{\texttt{From}}{3527}$	To 4000	$\frac{\text{Total}}{473}$	Rate 29.50	 Amount 13,953.50
Client Char Thiessen Ed Westcoast 1	rges quipment Ltd. Drilling Suppli	es Ltd.	And Andrews		694.20 60.53	754.73
Client Test Tole H.O. 7 7 hours 0						462.00
Moves Move Out 39 hours @	66.00					2,574.00
1 NW 5' cas 2 NW 10' ca	2 Sing @ 38.96 Sing asing @ 134.36 E796 (previousl	y charge	d) Plus	18%	77.92 74.73 268.72 	
Reaming Ca	asing, Cave and	Lost Ci				634.80
Hole H.O.	and H.O. 2 lamond recovery					-
•		•			•	\$ 18,379.03

## QUASAR AVIATION LTD.

HELICOPTER CHARTER SERVICE



+ofof 10/13/El

QUASAR AVIATION LTD.
150 . 10451 SHELLBRIDGE WAY
RICHMOND, B.C.
VAX 2W8

INVOICE

No: 81421

To Utah Min	es Ltd.		Date: 25 Sept. 81
	51 West Pender S		
Vancouve	r. B.C.	•••••	Customer Order No.
V6E 3S7			Re: Byyan Richards
			the state of the s
Helicopter Type	Registration	ATC Area	Period/Order Date
Bell 214B-1	C-GVXC	8.1	18 - 20 Sept. 81

## Description | Amount |

Flying Hours: 11.2 @ \$1680.00 | \$ 18,816.00 |

Fuel: 520 gal @ 1.75/gal | 910.00 |

Crew Food: 3 men x 2 days @ \$18.00/day | 108.00 |

Crew Accommodation: as per attached slip | 178.00 |

\*## TOTAL | \$ 20,012.00 |

\*## TOTAL | \$ 20,012.0

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Fac, Wille

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Hangar No. 6A, Municipal Airport Edmonton, Alberta T5G 2Z3 Phone 453-5121

9/6/21

July 28, 1981

TO

CUSTOMER'S ORDER NUM	BER	HELICOPTERS	,	PILOT
•	, ***	C-GLMW	Brown	
	DE	SCRIPTION		CHARGE
	And the second			
June 25, 1981	78719 6.8	hrs. @ \$395. per hr.		\$2,686.00
	Plus	Fuel 0.35/liter for 652	2.74 1.	228.4
<b>.</b>		Oil @ \$2.00 per hr.		13.60
June 26, 1981		hrs. @ \$395. per hr.		1,896.00
	Plus	Fuel 0.35/liter for 460	).8 1.	161.2
7 07. 1001	Plus	Oil @ \$2.00 perhr.		9.60
June 27, 1981		hrs. @ \$395. per hr.		1,066.50
	Plus	Fuel @.35/liter for 331	83 1.	116.1
Trans 20 1001		Oil @ \$2.00 per hr.		5.40
June 28, 1981		hrs. @ \$395. per hr.		2,607.00
	Plus	Fuel 0.45/liter for 633	3.6 1.	285.12
Tune 20 1001	Plus	Oil @ \$2.00 per hr.		13.20
June 30, 1981	78725 3.0	hrs. @ \$395. per hr.		1,185.00
	Plus	Fuel @.35/liter for 288	3.0 1.	100.80
	Plus	Oil @ \$2.00 per h.		6.00
			;	\$10,380.10



9/9/81

July 31, 1981

TO

			PAYABLE A	T PAR EDMONTON
CUSTOMER'S ORDER NUMBER		HELICOPTERS		PILOT
		C-GLMW	Brown	A STATE
 	DES	CRIPTION	A A	CHARGES
			. * * ******	
	* •		•	Ser Service

		•			· with
July	8. 19	81	78655	2.4 hrs. @ \$425. per hr.	\$ 1,020.00
• 44.47		-	••••	Plus Fuel # \$.35 per 1 for 230.4 1.	\$ 1,020.00 80.64 4.80
4				Plus Oil # \$2.00 per hr.	4.80
July	9. 19	81	78656	4.2 hrs. @ \$425. per hr.	1,785.00
<b></b> 1	<b>7.</b> 5			Plus Fuel 6.35 per 1 for 403.2 1	141.12
				Paus Oile \$2.00 per hr.	8.40
July	11. 1	981	78662	2.4 hrs. @ \$425. per hr.	1,020.00
Jung	, _			Plus Fuel @ .35 per 1 for 230.4 1.	80.64
	•			Plus Oil @ \$2.00 per hr.	<b>4.80</b>
July	15. 1	981	78666	4.3 hrs. 6 \$425. per hr.	1,827.50
				Plus Fuel @ .35 per 1 for 412.8 1.	144.48
				Plus Oil @ \$2.00 per hr.	8.60
July	16, 1	981	78669		467.50
				Plus Fuel @ .35 per 1 for 105.6 1.	36.96
				Plus Oil # \$2.00 per hr.	2.20
July	17, 1	981	78671		637.50
				Plus Fuel 6 .35 per 1 for 144 1.	50.40
				Plus Oil @ \$2.00 per hr.	3.00
July	20, 1	981	78674	.8 hrs. @ \$425. per hr.	340.00
	_ • •			Plus Fuel @ .35 per 1 for 76.8 1.	26.88
				Plus Oil @ \$2.00 per hr.	1.60
					\$7,692,02
				· · · · · · · · · · · · · · · · · · ·	



9/8/81

July 31, 1981

, TO

 						PAYABLE A	ABLE AT PAR EDMONTON		
CU	STOMER	S ORDER NU	MBER		C-GIMW	Brown	PILOT		
 				DES	CRIPTION		CHARGES		
July	22,	1981	78676	Plus	hrs. @ \$425. per hr. Fuel @.35 per 1 for 59 Oil @ \$2.00 per hr.	95.2 1.	\$ 2,635.00 208.32 12.40		
July	23,	1981	78678	1.0 Plus	hrs. @ \$425. perhr. Fuel @ .35 per 1 for 9 Oil @ \$2.00 pr hr.	96 1.	425.00 33.60 2.00		
July	29,	1981	78680	3.0 Plus	hrs. @ \$425. per hr. Fuel @.35 per 1 for 28 Oil @ \$2.00 per hr.	38 k,	1,275.00 100.80 6.00		
July	25,	1981	78682	3.9 Plus	hrs. @ \$425. per hr. Fuel @ .35 per l for : Oil @ #2.00 per hr.	374.4 1.	1,657.50 131.04 7.80 \$6,494.46		



9/17/21

August 31, 1981

TO

	1						DAY	YABLE AT PAR EDMONTON
		USTOME	R'S ORDER N	IUMBER		HELICOPTERS	l Pa	PILOT
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•	Aug.	-	1981		Plus 3.1 Plus	Oil @ \$2.00 per hr. hrs. @ \$425. per hr. Fuel @ \$1.64 per gal fo	-	5.00 1,317.50 122.02
	Aug.	7,	1981	83762	3.1 Plus	Oil @ \$2.00 per hr. hrs. @ \$425. per hr. Fuel @ \$1.64 per gal fo	r 74.4g.	5.20 1,317550 122.02
•	Aug.	13,	1981	83764	.9 Plus	Oil @ \$2.00 per hr. hrs. @ \$425. per hr. Fuel @ \$1.64 per gal fo Oil @ \$2.00 per hr.	r 21.6g.	6.20 382.50 35.42 1.80
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APPENDIX D
DIAMOND DRILL LOGS

COMPOSITE DRILL LOG : *BQ* HATSOFF SCALE : 1:100 PROJE HOLE No. CASING COLLAR ELEV: 2930. 4m GROUND ELEV.: 2930 m DATE STARTED: July 13/8/ 1.

N. 1/793 E. 1243/ DATE FINISHED: July 24/8/ PAGE No. 47A OF 61 REF. TO CLAIM CORNER: 53m @ 008° COORDINATES AZIMUTH : 0/2 TOTAL DEPTH : 9/4/4 INCLINATION -60° LOGGED BY COMMENTS: See below for specify sun Tests **ALTERATION** AVG. CORE REC'Y/HOLE **ASSAYS** DESCRIPTIVE GEOLOGY -691 692 -55.3° -693--48.00 39.50 694. 695. 696 697. -698 700 Start of 40-1-81 extension 701.3m 701 7013 Monanite 702 - med. grained, equigranular, 70% feld. (1/3 K feldspar, 15% of, 15% matics 7024 703 204

The second secon

COMPOSITE DRILL LOG BQ CORE SIZE SCALE : 1:100 HATSOFF PROJEC HOLE No. CASING COLLAR ELEV.: 2930.4 GROUND ELEV.: 2930 M July 13/81 DATE STARTED : PAGE No. 49 OF N. // 793 E. /243/ COORDINATES REF. TO CLAIM CORNER: 53m @ OOP ° DATE FINISHED : -60° INCLINATION AZIMUTH : 0120 . TOTAL DEPTH : LOGGED BY **ALTERATION** COMMENTS: AVG. CORE SULPHIDES SO ESTIMATED REC'Y/HOLE SAMPLE No. SAMPLE INTERVAL (M) GEOLOGY **ASSAYS** DESCRIPTIVE GEOLOGY 720. -720-Monsonite 320.9 -721 matres mainly bio. 722 723. -723 - fresh looking , hard 17.9 724 15 0.4 cm gtg-ser-py env. NIL 725. 97% 726. **-**1269 727 0.6 gyp v/n w 3cm 9+2-50-64) env. NJL. 728 100 729 729 large 1x2m white Icm etz va is minor py, mus, 730 730. NIL 0.4 um barren gtz 73/ 732. 732 882 733 NIL 0.3 cm py unit. 734. lan gt, in w sph, WO3 77.b minor py - higher cone of k-feld around in than norma

COMPOSITE DRILL LOG SCALE : /;/00 GROUND ELEV.: 2930 M CORE SIZE 139 Hatsoff HOLE No. 2930.4m DATE STARTED : July 13/8/ PAGE No. 52 OF REF. TO CLAIM CORNER: 53 A @ 008 //793 N. /243/ E. COORDINATES DATE FINISHED : . T. Pollock AZIMUTH : 0/2 TOTAL DEPTH : -60° INCLINATION LOGGED BY COMMENTS: Gypsum unit outs a 95-py unit. **ALTERATION** AVG. CORE REC'Y/HOLE ESTIMATED SULPHIDES SAMPLE NO. % SAMPLE RECOVERED SAMPLE INTERVAL (M) GEOLOGY **ASSAYS** DESCRIPTIVE GEOLOGY Quartz Mongraite

coarse grained, similiar -766 2 2cm 983-py m 5 mo 3 cmen. 767 768 769 F164.34 770 771 772 1/1200 773 1004 774 776 777 777 778 o. 3 cm gtz in w

COMPOSITE DRILL LOG Hatsoff July 13/81 : 1:100 BΦ CORE SIZE SCALE PROJE 2930.4m GROUND ELEV : 2930 m PAGE No. 54 OF CASING COLLAR ELEV. DATE STARTED : : //793 N. /243/ REF. TO CLAIM CORNER: 53M & 008° COORDINATES DATE FINISHED : : T. Pollock -60° : 0/2° INCLINATION AZIMUTH LOGGED BY TOTAL DEPTH : DRILLING
INTERVAL
% CORE
RECOVERED
% SULPHIDES ESTIMATED **ALTERATION** COMMENTS: AVG. CORE REC'Y/HOLE FRACTURING SAMPLE No. GEOLOGY **ASSAYS** DESCRIPTIVE GEOLOGY 795 -795 5 cm aplike dyke 5 - Guarty Monzonite 9 40, PY, MO. ow off Buthe -796 - mottled blacktwhite to blackt pink 12 NSV -lurge feldspor crystals common, 797 798-798-801: 5 ptg-ser-py in Its, 799 800 FROON 801 801 802 NSL -803 804. 804 805 - gtz-ser-py mits diffuse 806 2067 807 807 808 809

COMPOSITE PRILL LOG BP : 1:100 PROJEC CORE SIZE SCALE HOLE No. 2930.4 GROUND ELEV.: 2930.0 PAGE No. DATE STARTED : CASING COLLAR ELEV. REF. TO CLAIM CORNER: 53M @ 0080 1/793 N. 12431 DATE FINISHED : COORDINATES -60° : 0/20 AZIMUTH TOTAL DEPTH : LOGGED BY INCLINATION AVG. CORE REC'Y/HOLE SULPHIDES ESTIMATED COMMENTS: **ALTERATION** % SAMPLE RECOVERED SAMPLE No. SAMPLE INTERVAL (M) FRACTURING MINERALS GEOLOGY **ASSAYS** DESCRIPTIVE GEOLOGY -900 -900 Monamite mits. -401 -90/ .52 NIL west 902 -903 903 NEL 905 906 906 907 NIL -908 909 909 910 906-909m: 2 et, -py 912 912 19137 9/3 -914 9/4.4 m 915

COMPOSITE DRILL LOG NQ CORE SIZE 1.100 SCALE HOLE No. CASING COL ELEV: July 25/81 GROUND ELEV .: 2930.0m DATE STARTED : PAGE No. : 1/793 N. 12431 COORDINATES DATE FINISHED : REF. TO CLAIM CORNER: 53m@ 008° INCLINATION AZIMUTH TOTAL DEPTH : : T. Pollock LOGGED BY **ALTERATION** COMMENTS: AVG. CORE SULPHIDES ESTIMATED FRACTURING REC'Y/HOLE SAMPLE No.
% SAMPLE
RECOVERED **ASSAYS** DESCRIPTIVE GEOLOGY 3mm un-fracture Monzoni de -/6 90.0 .5 1.5 cm 9 ts - ser-py m. 18. 93.5 alteration of bio to chit quite homogeneous .20 F20.\ 2/ 21 22 186.6 D.3 cmg/z-cer-py -23 13.2 24 sph & mo, 2 m w - gossanous common, some coated with sericite 125 -26.2 27 27 -28 29 30

COMPOSITE DRILL LOG : 1100 PROJECT : Hatsoff CORE SIZE SCALE HOLE No. DATE STARTED: July 25/8/ GROUND ELEV.: 2930.0m CASING COLLAR ELEV.: PAGE No. : //793 REF. TO CLAIM CORNER: 53m @ 008° N. 1243/ E. COORDINATES DATE FINISHED : : T. Pollock INCLINATION AZIMUTH TOTAL DEPTH : LOGGED BY DRILLING
INTERVAL
% CORE
RECOVERED
% SULPHIDES ESTIMATED **ALTERATION** COMMENTS: AVG. CORE % SAMPLE RECOVERED REC'Y/HOLE FRACTURING MINERALS GEOLOGY SAMPLE No. SAMPLE INTERVAL (M) **ASSAYS** DESCRIPTIVE GEOLOGY 45. 45 Fractive wated Quartz Monzonite Jrus. -grz. 46 al large (>/cm²) feldspor 93.3 47 0,5 am of - py m 48 48 w lan env! 48-5/m: 49 hairline tracture 111. W Mo 50 is ledden cuts a 0,5 cm or, -ser- py m in trace mo. 51 51 52 - fractures still asssanous NIL 53 87 54 54 55.5 NIL 56 85.7 57 57 59 Tr Zum goz-py un is mo /un envelopes 59 langty-pym 0.5 amons

COMPOSITE DRILL LOG NO CORE SIZE SCALE : 1: 100 PROJECT! HOLE No. DATE STARTED : July 25/81 CASING COLLAN ELEV: GROUND ELEV.: REF. TO CLAIM CORNER: 53 m € 008° : 11793 COORDINATES N. 12431 DATE FINISHED : INCLINATION T. Pollock AZIMUTH TOTAL DEPTH : LOGGED BY **ALTERATION** COMMENTS: AVG. CORE SULPHIDES REC'Y/HOLE MINERALS % SAMPLE RECOVERED DEPTH GEOLOGY SAMPLE No. SAMPLE INTERVAL (M) **ASSAYS** DESCRIPTIVE GEOLOGY 60 60 18.03 61 .5/11 Fracture along 62 60-63 m: 63 100 .63 Contact 6 20 matics partially 2 cm gt, in or surapy langenv. 13.° LLS.8 89.41 66 4 cm pagnetite un 66 fractures gossanous, trace mag -67.4 INIV. 86.7 69 69-72 m: /cal m to WO3 + hem 70 .05 43.3 71 0.3 cm gt, -py-mus m, 0.4 cm. W03 1.3 cm ots -py in is minor MO, bobon env. 14.9 72 50.5 cm gtz -py m 14631 run zonite. 1/2. MEL 1

COMPOSITE DRILL LOG Hatsoft July 25/81 SCALE CORE SIZE PROJECT HOLE No. PAGE No. 18 OF CASING COLLAR ELEV. GROUND ELEV. REF. TO CLAIM CORNER: 537 @ 000° 1/793 N. /243/ COORDINATES DATE FINISHED : : T. Pollock LOGGED BY INCLINATION AZIMUTH TOTAL DEPTH : SESTIMATED COMMENTS: SULPHIDES AVG. CORE **ALTERATION** SAMPLE No.
% SAMPLE
RECOVERED
SAMPLE
INTERVAL
(M) REC'Y/HOLE FRACTURING MINERALS **ASSAYS** GEOLOGY DESCRIPTIVE GEOLOGY 1% 1255. 255 Duart 256 96.9 NIL - matics 320, nottled dork grey + white 257. 0.2 cm oti-py us 7589 258 258 257 100 NIL 260 I con barron etz un -261 -161 261 262 1592 gyp, hen, WOz, Imenv. 263 264 264 -264 265 D. 3 cm of m w spr py 96,7 NIL 266 from hematite staining 267 -267 267 268 52 NSL 46.7 1,3 cm gt, m Jpy+sph. I cm env. 74 1269

心上接,

COMPOSITE DRILL LOG NA CORE SIZE : 1:100 Hatsoff July 25/81 SCALE PROJEC# HOLE No. CASING COLLAR ELEV. GROUND ELEV. : PAGE No. 2/ OF DATE STARTED : : 11793 N. 12431 REF. TO CLAIM CORNER: 53 M @ 008 COORDINATES DATE FINISHED : INCLINATION AZIMUTH : T. Pollock TOTAL DEPTH : LOGGED BY **ALTERATION COMMENTS:** AVG. CORE SULPHIDES & ESTIMATED REC'Y/HOLE % SAMPLE RECOVERED SAMPLE No. GEOLOGY SAMPLE INTERVAL (M) **ASSAYS** DESCRIPTIVE GEOLOGY -300 -300-32 -301-Tr 302. 40,6 303 303 to me, gyp, 0.7 cm env. 304 F 1305 100 306 -306 3066 306-309: 307 NSLI 308 100. 0.3 cm gt, - py m w 309 309 0.1 cm 9 5- py m ~ 0.5 301. 3/0 1.3 am 9t3-py m 0.6 cm env. 311 100 3/2-315m: 3/2 3/2 Sph + Silmin., O.Sim 3/3+ 100. 2% 314 an gty-py m w to 315 Sphi

COMPOSITE DRILL LOG CORE SIZE SCALE HOLE No. DATE STARTED : July 25/8/ PAGE No. 22 OF CASING COLLAR ELEV. GROUND ELEV.: REF. TO CLAIM CORNER: 53m @ 008° COORDINATES DATE FINISHED : INCLINATION TOTAL DEPTH LOGGED BY **ALTERATION COMMENTS:** SULPHIDES S S ESTIMATED AVG. CORE REC'Y/HOLE % SAMPLE RECOVERED FRACTURING SAMPLE NO. SAMPLE INTERVAL (M) MINERALS GEOLOGY **ASSAYS** DEPTH (M) DESCRIPTIVE GEOLOGY -3/5. -315 315.8 -3/6 1.3 cm gyp in w sphy WOs, hem, 0.5 cm env 2% - smillion NIL 317 96.7 -3/8-3/8 3,8,8 319 Tr. 320 16.4 319.7 - 321.7 m, roenv. -32/ 321 Tr .322 322.8 - 324 m : hemotile stained 4 323 324 -324 324-327 m: 3 gtg-py ms 8 gtg-ser-py m/ts. 0.7 cm ets - y vn 1374 325 NEL 326 100 327 327 3213 0.7 am ot m w sph matic content 3-4%, rost bio alt Stak -328 Staining Common 100 22 0,2 mgti-ser-pym

COMPOSITE DRILL LOG NA CORE SIZE SCALE HOLE No. CASING COLLAR ELEV. GROUND ELEV.: DATE STARTED : PAGE No. 23 OF 11793 REF. TO CLAIM CORNER: 53m @ 008° 12431 COORDINATES DATE FINISHED : : T. Pollock INCLINATION AZIMUTH TOTAL DEPTH : LOGGED BY **ALTERATION** % CORE RECOVERED SULPHIDES **COMMENTS:** AVG. CORE FRACTURING REC'Y/HOLE % SAMPLE RECOVERED SAMPLE NO. GEOLOGY SAMPLE INTERVAL (M) **ASSAYS** DESCRIPTIVE GEOLOGY 330 -330,7 no onv. They va 33/ 332 diss. mo. 333 - 333 334 F334. 1:1 335 336 336 337 337. Tr 1338 96,6 739 339 .3 cm gt m in tr -340 34/ Weak kov. 7 m mano, 342 -342 0.4 cm gt - ov m w no, 0.6 ch thu. + 343.1 - 344.m 343 3431 1969 22 fractive coated to tom gti-py un w cal, no env.

COMPOSITE DRILL LOG NA CORE SIZE SCALE PROJEC HOLE No. GROUND ELEV .: 2930.0m CASING COLLAR ELEV. DATE STARTED : PAGE No. 24 OF : //793 REF. TO CLAIM CORNER: 53 m @ 008° COORDINATES N. 12431 DATE FINISHED : INCLINATION AZIMUTH TOTAL DEPTH : LOGGED BY **ALTERATION COMMENTS:** AVG. CORE SULPHIDES S ESTIMATED REC'Y/HOLE SAMPLE NO GEOLOGY **ASSAYS** DESCRIPTIVE GEOLOGY 345 -346 Tr 347 348 100 -348 349 350 35/ 96.6 -357 352 1, 353. 354 354 1355. 356 1 357 -357 3579 358 359

COMPOSITE DRILL LOG CORE SIZE : 1:100 Hatsoft July 25/81 SCALE HOLE No. GROUND ELEV.: 2930. PAGE No. 25 OF CASING COLLAR ELEV: DATE STARTED : REF. TO CLAIM CORNER: 53 M @ 0080 11793 N. 12431 COORDINATES DATE FINISHED : INCLINATION AZIMUTH TOTAL DEPTH : LOGGED BY **ALTERATION** COMMENTS: AVG. CORE S ESTIMATED SULPHIDES A SAMPLE RECOVERED SAMPLE INTERVAL (M) FRACTURING REC'Y/HOLE MINERALS SAMPLE No. DEPTH (M) ASSAYS DESCRIPTIVE GEOLOGY -360 Lengyp in is py, 0.7 cm enx 0.5 cm et, un is py, 6/02, 5ph, Kent., 0.5 cm/env 361 361 10 362 -363. 100 -363 364 364 10 363-366 -365 96.7 -0.2 cm gdz un wpy, sphi 366 -366 367 F367 NSU 97.0 369 -369 370 NSU 371 372 -372 373 39, 10 374 mgt,-py un 5 mo

: 1:100 CORE SIZE SCALE PROJE HOLE No. GROUND ELEV .: 2930.0m July 25 /81 CASING COLLAR ELEV. DATE STARTED : PAGE No. 26 OF : 1/793 REF. TO CLAIM CORNER: 53 M @ 008 ° /243/ E. COORDINATES DATE FINISHED : : T. Pollock INCLINATION AZIMUTH TOTAL DEPTH : LOGGED BY **ALTERATION** COMMENTS: AVG. CORE S S ESTIMATED SULPHIDES REC'Y/HOLE SAMPLE No. SAMPLE RECOVERED SAMPLE INTERVAL GEOLOGY MINERALS **ASSAYS** DESCRIPTIVE GEOLOGY -375 376 5% bio altered to ser NII 378 378 - rare Marge feldspor phonos NIL 371.8 moderate porphyritic texture 380 381 -38/ 0.1 cm gtz-py vn 100. 382 NIL 383 1:5 cm et m 55 PY, 50h, 07 5il. nin. .384 cutedral feldspor phonos common 385 0.4 cm gt -py vn, no NSU -3859 386 -387 387 103,7 388 NSV 389

COMPOSITE DRILL LOG

34

COMPOSITE DRILL LOG NO 1:100 CORE SIZE SCALE PROJEC HOLE No. GROUND ELEV.: 2930.0m CASING COLLAR ELEV. DATE STARTED : PAGE No. 27 OF : //793 N. 1243/ REF. TO CLAIM CORNER: 53 M @ 008° COORDINATES DATE FINISHED : -900 INCLINATION AZIMUTH TOTAL DEPTH : LOGGED BY **ALTERATION** COMMENTS: AVG. CORE SULPHIDES S ESTIMATED REC'Y/HOLE SAMPLE No. % SAMPLE RECOVERED GEOLOGY **ASSAYS** • • DESCRIPTIVE GEOLOGY -390 0,3 cm eti- py into mo 18/28/22 39/ 392. - 393 -3*93* 969 394 - 2 fractures 395 396 100 397 11 398 selectors looking here. 399 400 STIME & 401 402 402 403 10

COMPOSITE DRILL LOG 1/00 SCALE HOLE No. GROUND ELEV.: 2930m CASING COLLAR ELEV. PAGE No. 29 OF DATE STARTED : REF. TO CLAIM CORNER: 53 M & 008° n. /243/ 11793 COORDINATES DATE FINISHED :. -90° : T. Pollock INCLINATION AZIMUTH LOGGED BY TOTAL DEPTH : **ALTERATION COMMENTS:** AVG. CORE SULPHIDES & ESTIMATED REC'Y/HOLE GEOLOGY SAMPLE No. **ASSAYS** DESCRIPTIVE GEOLOGY 420 421 NIL 422 194-1 NIL 425 426 -426 rock is guite consistent 427 100 15 428 -428.9 429 96.4 -430 NJL 43/ 432 19691 NIL above

COMPOSITE PRILL LOG : 1.100 PROJEC SCALE HOLE No. GROUND ELEV .: 2930.0m PAGE No. 37 OF DATE STARTED : CASING COLLAR ELEV. REF. TO CLAIM CORNER: 53 M & OOSO 11793 DATE FINISHED : COORDINATES LOGGED BY INCLINATION AZIMUTH TOTAL DEPTH : COMMENTS: SULPHIDES SESTIMATED AVG. CORE **ALTERATION** REC'Y/HOLE SAMPLE INTERVAL (M) **ASSAYS** DESCRIPTIVE GEOLOGY -540 100 2-32 542 -544 10 545 -546 -546 548 regular aut of et, + feld. 549 549. -550 0,2 551 Un-fracture to mo. -552 552 100 553 0,3 cm st. -py mw 554 Fracture along 3 cm

COMPOSITE DRILL LOG : 1:100 SCALE CORE SIZE HOLE No. PAGE No. 38 OF GROUND ELEV .: 2930.0m CASING COLLAR ELEV. DATE STARTED : REF. TO CLAIM CORNER: 57 7 @ 0080 N. /243/ COORDINATES DATE FINISHED : -90° INCLINATION AZIMUTH TOTAL DEPTH : LOGGED BY SESTIMATED **COMMENTS:** AVG. CORE SULPHIDES **ALTERATION** SAMPLE No. SAMPLE RECOVERED SAMPLE INTERVAL REC'Y/HOLE FRACTURING **ASSAYS** GEOLOGY DEPT! DESCRIPTIVE GEOLOGY (Fine Biotite) nag , no, no, 0, son en -556 F586.11 .02 557 dsar = 1/2 k-felds par -558 -558 -559 ./ Q+, - 1 ms ~ MO, Mag 560 Han, max 1.5 cm, 1 cm lene. rock quite homogeneous -561 56/ 562 11 563 .564 -564 565 SbSi Ti 566 567 0.4 mm similar to 568 10 1.3 cm et m w py mag, hob, ti cp, asmerv. 569 +r co. D.b um env.

NA : 1:100 SCALE CORE SIZE HOLE No. GROUND ELEV.: 2930.0m CASING COLLAR ELEV. DATE STARTED : PAGE No. 39 OF REF. TO CLAIM CORNER: 53m @ 008 11793 N. /243/ E. COORDINATES DATE FINISHED : : T. Pollock -900 INCLINATION AZIMUTH TOTAL DEPTH : LOGGED BY **ALTERATION COMMENTS:** & ESTIMATED AVG. CORE % SAMPLE RECOVERED REC'Y/HOLE SAMPLE No. SAMPLE INTERVAL (M) GEOLOGY **ASSAYS** DEPT) 1% DESCRIPTIVE GEOLOGY -571 1761 .04 572--573 574-1, 576 ag congt - K-filds par in is py, ridg, 0,9 cm env. 577 1, 579 580. I'm gty-pym is mo I'm env. 100 11 581 no, nog, trhen, no en. 582 583 5839 .08 584. 1101.63 Contact @ 600 White - Plag- Pt, dyka 58455-Stockwork of gts-py-mo uns.

COMPOSITE DRILL LOG

COMPOSITE DRILL LOG CORE SIZE : 1:100 SCALE PROJE HOLE No. GROUND ELEV.: 2930,0m DATE STARTED : July 25/8/ CASING COLLAR ELEV. PAGE No. 40 OF 1/793 N. 12431 REF. TO CLAIM CORNER: 534 @ 008 COORDINATES DATE FINISHED : INCLINATION AZIMUTH : 1. Pollock TOTAL DEPTH : LOGGED BY **ALTERATION COMMENTS:** AVG. CORE SULPHIDES S ESTIMATED SAMPLE NO. % SAMPLE RECOVERED REC'Y/HOLE MINERALS **ASSAYS** DESCRIPTIVE GEOLOGY 1% 16 -585 ş Contact @ 60° no, to gyp, 0.5 cm car. Monzmite (time biotite) 587 -588 588 0.3 cm 9+2- py un, no env. 3 cm aphonitic k-feld, dyke. 15894 To 591 -592 100 -593 1 594 599 0.8 m gtg - py m 3 mo, O. lanew. 595 Fracture w no conting Tr .596 Mag, May gyn, 0.2 cm env, 597 Fracture conted wimo 598 0.2 cm gt, m wpy, mo, no WO3, /em en. sph 0.2 m of mis no

: 1:100 SCALE PROJE CORE SIZE HOLE No. GROUND ELEV.: 2930. Om PAGE No. 4/ OF CASING COLLAR ELEV. DATE STARTED : REF. TO CLAIM CORNER: 53 A @ 008° DATE FINISHED : COORDINATES T. Pollock INCLINATION AZIMUTH LOGGED BY TOTAL DEPTH : SESTIMATED **COMMENTS:** AVG. CORE SULPHIDES **ALTERATION** REC'Y/HOLE SAMPLE No. SAMPLE INTERVAL (M) **ASSAYS** DESCRIPTIVE GEOLOGY 1% 600 -600 601 602 1603 -603 F603.7 604 605 606 -606 1.89 607 -608 1017 10.2 cm gt, ms is portmo no env but rock has saucs plag. -609 -609 6/0 1-6/2 6/2 -613 .02

COMPOSITE DRILL LOG

1:100 CORE SIZE SCALE PROJECT HOLE No. DATE STARTED : July 25/8/ GROUND ELEV.: 2930.0 m CASING COLLAR ELEV. PAGE No. 42 OF 11793 REF. TO CLAIM CORNER: DATE FINISHED : COORDINATES : T. Pollock -90° LOGGED BY INCLINATION **AZIMUTH** TOTAL DEPTH : S ESTIMATED **COMMENTS:** AVG. CORE **ALTERATION** SAMPLE NO. % SAMPLE RECOVERED REC'Y/HOLE SAMPLE INTERVAL (N) MINERALS **ASSAYS** GEOLOGY DESCRIPTIVE GEOLOGY -615 -615 Morron ite -616 22 04 617 -618 619 0,3 my env 0.2 cm gk-py mis no, 620 .621 1621 622 -fresh, hard F 623 .624 624 -625 47.4 F 626 -627 627 1628 -629

COMPOSITE DRILL LOG

COMPOSITE DRILL LOG : 1:100 PROJEC SCALE HOLE No. CORE SIZE DATE STARTED : July 25/8/ GROUND ELEV.: 2930, Om PAGE No. 43 OF CASING COLLAR ELEV. REF. TO CLAIM CORNER: 53 M @ 008° 1/793 N. /243/ DATE FINISHED : COORDINATES : 1. Pollock LOGGED BY AZIMUTH TOTAL DEPTH : INCLINATION DRILLING INTERVAL % CORE RECOVERED % SULPHIDES & ESTIMATED COMMENTS: AVG. CORE **ALTERATION** SAMPLE NO. SAMPLE RECOVERED REC'Y/HOLE ASSAYS GEOLOGY DEPTH (M) DESCRIPTIVE GEOLOGY -130 -630 Monjonite D. 8 cm at mw no. py mag, gyp. O. 8 m en -631 Tr 632 432 633 633 0.5 cm gt - py vo in mo, no env. 634 Tr 633-636: 635 20 cm day alt + broken some. -636 636 637 Tr 638 Ot, - pyon (1.2 cm) w to no, sph, gyp - Imenu. cuts 0.8 cm gk, m to py, ma, gip, no env. 639 637 0.8 cm gts py un wish + tracemo, O.7 in env 610 1 Fracture w mo coating 641 -642 642 ser due to many uns in large 643 1 18.3

COMPOSITE PRILL LOG : 1.100 40 NQ SCALE HOLE No. CORE SIZE DATE STARTED : July 25/8/ GROUND ELEV.: 29 30.0 m PAGE No. 44 OF CASING COLLAR ELEV. REF. TO CLAIM CORNER: 53 M@ 008° 1/793 N. 1/243 DATE FINISHED : COORDINATES [ Pollock -90° AZIMUTH LOGGED BY INCLINATION TOTAL DEPTH SULPHIDES & ESTIMATED AVG. CORE **COMMENTS: ALTERATION** % SAMPLE RECOVERED REC'Y/HOLE **ASSAYS** GEOLOGY SAMPLE 8 DESCRIPTIVE GEOLOGY Monzanite Tr 647 648 1,2 cm of - sph on to py, to his in 2 cm end -649 Tr -650 651 98,3 652 Tr 1653 -654 -1541 655 .656 sph, las, tr sil. min. Tr 196.61

COMPOSITE DRILL LOG : 1:100 CORE SIZE Hatsoft July 25/81 SCALE PROJEC HOLE No. PAGE No. 46 OF GROUND ELEV.: 2930.0m CASING COLLAR ELEV. DATE STARTED : REF. TO CLAIM CORNER: 534 @ 008 \* 1/793 N. 12431 COORDINATES DATE FINISHED : -90° INCLINATION AZIMUTH : T. Pollark TOTAL DEPTH : LOGGED BY % CORE RECOVERED % SULPHIDES **ALTERATION** COMMENTS: AVG. CORE & ESTIMATED FRACTURING REC'Y/HOLE A SAMPLE RECOVERED SAMPLE INTERVAL (M) SAMPLE NO. GEOLOGY **ASSAYS** DESCRIPTIVE GEOLOGY -675 H35.71 94P1 2 m env. 676 1-677 678 -678 95,0 679 no type, rolen. 1 680 1 0.1 cm qt -py m to mo, 68/ 681 13/2 1682 Tr 683 684 locally good salt + pepper deschire, 685. V -186 687.7 m - 696,0m: rock has diss mo 687 Mo coated fracture -688 2 .35 1 4 cm gt, - pym w mo

COMPOSITE PRILL LOG CORE SIZE SCALE HOLE No. GROUND ELEV .: 2930.0m PAGE No. 47 OF-CASING COLLAR ELEV. DATE STARTED : REF. TO CLAIM CORNER: 53 M @ 0080 COORDINATES DATE FINISHED : : T. Pollock INCLINATION AZIMUTH TOTAL DEPTH : LOGGED BY AVG. CORE SULPHIDES SESTIMATED **ALTERATION COMMENTS:** REC'Y/HOLE % SAMPLE RECOVERED SAMPLE No. **ASSAYS** DESCRIPTIVE GEOLOGY % -690 691 **b**2 692--693 695 -697 100.0 Tr 698 699 699 0,5 cm gt m, no env. 700 F200.1 701 702 702 100,01 703 1.5 Tr 704

COMPOSITE DRILL LOG : /:/00 CORE SIZE SCALE PROJECT HOLE No. GROUND ELEV.: 2930.0m CASING COLLAR ELEV. DATE STARTED : PAGE No. 49 OF REF. TO CLAIM CORNER: 53 M @ 008° 1/793 COORDINATES DATE FINISHED : -900 INCLINATION AZIMUTH TOTAL DEPTH : LOGGED BY **ALTERATION COMMENTS:** AVG. CORE SULPHIDES ASS ESTIMATED REC'Y/HOLE % SAMPLE RECOVERED **ASSAYS** DESCRIPTIVE GEOLOGY 720 Monzon ite 721 722. 723-723 724 725 1.7 cm et. -py mu minor had, ndg, mo, lon env. 0.1 cm gtg m w no, 0,3 cm env. 726 726 727 480 O, I cm gyp mlt w /m en - approching regular mig 728 729 729 miner of m stockwork wmo O.7 cm gly unit spht sor, lub env 730 7303 731 0,3 m gts mu py, han weakly altered to clay magio, un env. 732 732 pairline units Fracture in Minor MO 733

COMPOSITE DRILL LOG : 1:100 CORE SIZE SCALE PROJEC HOLE No. GROUND ELEV.: 29 30,0m CASING COLLAR ELEV. PAGE No. 5/ OF REF. TO CLAIM CORNER: 53 M @ 0080 : 1/793 N. 12431 COORDINATES DATE FINISHED : : T. Pollak. -90° INCLINATION TOTAL DEPTH LOGGED BY COMMENTS: ALTERATION AVG. CORE SULPHIDES **SESTIMATED** REC'Y/HOLE FRACTURING MINERALS GEOLOGY SAMPLE NO. SAMPLE INTERVAL (M) **ASSAYS** DESCRIPTIVE GEOLOGY 750 -750--751 Tr 12 752 753 -753 759 03 cm gt-mo in is py. -755 756 756 757 2541 10 758 اط 12 759 760 761 762 762 Tr 763 764

COMPOSITE ARILL LOG 1:100 SCALE PROJECT HOLE No. GROUND ELEV.: 2930,0 m CASING COLLAR ELEV. DATE STARTED : PAGE No. 52 OF 53 n @ 008° 1/793 N. 1243/ COORDINATES REF. TO CLAIM CORNER : DATE FINISHED : : To Pollock INCLINATION AZIMUTH TOTAL DEPTH : LOGGED BY ESTIMATED **ALTERATION** COMMENTS: SULPHIDES AVG. CORE SAMPLE No. REC'Y/HOLE SAMPLE INTERVAL (M) GEOLOGY **ASSAYS** DEPTH (M) DESCRIPTIVE GEOLOGY % -765. 2-01 et-moun in either 766 767 768 768 to hen Mag O.6 mens. 769 Īr 770 310,7 771 772 ír 773 47.5 3.5 cm clay-chl gouge 774 hairline no intro 776 777 777 778 10 777-780 m: 10 gly-mo ms. Posen of - py in w mag, 779

COMPOSITE DRILL LOG : 1100 PROJEC SCALE HOLE No. CORE SIZE July 25/8/ GROUND ELEV.: 2930.0m DATE STARTED : CASING COLLAR ELEV. REF. TO CLAIM CORNER: 53 M @ 0080 COORDINATES DATE FINISHED: LOGGED BY INCLINATION AZIMUTH TOTAL DEPTH : SULPHIDES SESTIMATED AVG. CORE **ALTERATION COMMENTS:** REC'Y/HOLE FRACTURING SAMPLE No. SAMPLE INTERVAL (M) **ASSAYS** DESCRIPTIVE GEOLOGY -780 1.7 cm gtz m = pymo, minor -781 782 Silicification from the -783 783 a 0.5 lb gt - no VA. O. For gt - no m, niver py - hem. 783-786- nin 17 gh-no ms -786 787 160 0.05 788. 789 790. -792 792 by mo coated fract 793 Tr dyla & diss mo.

COMPOSITE RILL LOG SCALE : 1.100 HOLE No. July 25/81 GROUND ELEV .: 2970 Om PAGE No. 54 OF CASING COLLAR ELEV. DATE STARTED : REF. TO CLAIM CORNER: 53 m @ 008° : 1/793 N. 1243/ COORDINATES DATE FINISHED : : T. Pollock LOGGED BY INCLINATION AZIMUTH TOTAL DEPTH : COMMENTS: AVG. CORE 3 0 ESTIMATED **ALTERATION** SULPHIDES SAMPLE No.

% SAMPLE
RECOVERED
SAMPLE
INTERVAL
(M) REC'Y/HOLE GEOLOGY **ASSAYS** DESCRIPTIVE GEOLOGY 795 Monzonite 22 796 texture à diss, mag, bio ,02 wealthy hematite stained rock -798 799 97.1 Contact = 350 .01 lengtym = gygmo, 799.45-801.05m. Quarty - Brotike - Feldspar 15 m 9 ty vn wpy, nag, Porphyry Dylu. -800 801 -801 802 -803 804 804 804-807: 7 pt - no ms 1805 1r 806 807 807 808 TI -809

COMPOSITE PRILL LOG Hatsott July 25/81 PROJEC SCALE : 1:100 HOLE No. GROUND ELEV : 29 30.0m PAGE No. 55 OF CASING COLLAR ELEV. DATE STARTED : REF. TO CLAIM CORNER: 53 M & 008 11793 N. 12431 COORDINATES DATE FINISHED : : T. Pollock INCLINATION AZIMUTH LOGGED BY TOTAL DEPTH : DRILLING
INTERVAL
% CORE
RECOVERED
% SULPHIDES SESTIMATED **ALTERATION** COMMENTS: AVG. CORE REC'Y/HOLE FRACTURING MINERALS SAMPLE NO. SAMPLE INTERVAL (M) GEOLOGY **ASSAYS** DESCRIPTIVE GEOLOGY 810 -810 O. I am gt, -moun. 12 811 812 -813 -813 814 10 I'm of-mus. m w to me, I'm car. -8/6 816 813-816: 10 gly-noms nax 0.200. -817 Tr 819 8/9 820 î 821 -827 822 1 03 cm gt - no m -823 10 12 824

: 1:100 Hatsoff July 25/81 PROJE CORE SIZE GROUND ELEV.: 2130. Om CASING COLLAR ELEV.: PAGE No. 57 OF : 11793 N. 12431 REF. TO CLAIM CORNER: 53 M @ 0080 COORDINATES DATE FINISHED : INCLINATION AZIMUTH LOGGED BY TOTAL DEPTH : **COMMENTS:** SULPHIDES **ALTERATION** AVG. CORE REC'Y/HOLE SAMPLE INTERVAL (M) GEOLOGY **ASSAYS** DESCRIPTIVE GEOLOGY Mo -840 gyp, sit. min, lun env. Moran ite 841 03 842 0.1 m gt - nom -843 843 Tr 100 843-846: 19 gly ms I Me 846 846 847 Tr 2- 1 cm pink to fild styms 849 849-852: 12 pt,-no ms -850 4cm gtg - k-kild in in traph plus 85/ 160 0.2 cm gtg mo m You pink, ab- 12-feld, un beside this to 0.5 cm gt; -mom. 852 852 853 Иr 854 100

COMPOSITE PRILL LOG

COMPOSITE PRILL LOG PROJECT HOLE No. SCALE REF. TO CLAIM CORNER: 53 ~@ 0000° GROUND ELEV.: 2930.0x PAGE No. 58 OF DATE STARTED : CASING COLLAR ELEV. : //793 N. /243/ E. DATE FINISHED : COORDINATES : LOGGED BY TOTAL DEPTH AZIMUTH INCLINATION SULPHIDES ESTIMATED AVG. CORE **ALTERATION COMMENTS:** % SAMPLE RECOVERED REC'Y/HOLE SAMPLE No. SAMPLE INTERVAL (M) **ASSAYS** MINERALS DESCRIPTIVE GEOLOGY 855. -855 Morronite -856 1.5 857 858 1858 92 cm g/2 - mo m. diss may trace her 959 Tr 860 1/cm ate-py in 5 mo -861 -861 858-861: 4 0.9 cm gtz-ur-pyun. 0.6 cm gtz m w no, sph + set, lun env. 18.1 -862 Tr 863 864 0.2 cm gt, - nom -865 Tr 866 1867 867 - salt + pepper forture, K-feld 868 0.4 cm et, - no m 869

: 1:100 SCALE HOLE No. GROUND ELEV .: 2930. Om REF. TO CLAIM CORNER: 53 m @ 0080 CASING COLLAR ELEV. DATE STARTED : 1/793 1243/ E. COORDINATES DATE FINISHED : : To Pollak -900 INCLINATION AZIMUTH TOTAL DEPTH : LOGGED BY **ALTERATION COMMENTS:** AVG. CORE **ESTIMATED** SULPHIDES REC'Y/HOLE SAMPLE No. GEOLOGY **ASSAYS** DESCRIPTIVE GEOLOGY -870 -870 8H 872 873 873 874 -875 876 -876 suffered potessic 877 -mo stockwork. Tr Fracture to mo how magg. Cuts + off sets severall of mo ms. 878 879 870 considuable 881 882 882 882.9 K -883 883.5-885.2- massive muscovik 3 gt.

COMPOSITE DRILL LOG 134 : 1.100 SCALE CORE SIZE GROUND ELEV .: 2930. 0-CASING COLLAR ELEV. 11793 N. 12431 REF. TO CLAIM CORNER: 53 M @ 008° COORDINATES DATE FINISHED : . T. Pollock -90° INCLINATION TOTAL DEPTH : LOGGED BY **ALTERATION** COMMENTS: AVG. CORE SULPHIDES OF SO ESTIMATED REC'Y/HOLE SAMPLE NO. % SAMPLE RECOVERED SAMPLE INTERVAL (M) **ASSAYS** DESCRIPTIVE GEOLOGY Tr 0.2 cm gyp m cuts a 0.3 cm 903 98. 1-106 0.5 m gt mis ma, cer .03 100 1.2 mg/, mis +1, mus., noenv. .02 lyon gt into to mo,

COMPOSITE DRILL LOG CORE SIZE SCALE : 1:100 PROJECT Hatsoff HOLE No. GROUND ELEV.: 2930, Om CASING COLLAR ELEV: DATE STARTED : PAGE No. 62 OF N. 12431 REF. TO CLAIM CORNER: 53 M & OOSO COORDINATES DATE FINISHED : -90° INCLINATION AZIMUTH 1. Pollock TOTAL DEPTH LOGGED BY **ALTERATION** COMMENTS: AVG. CORE SULPHIDES of 00 ESTIMATED REC'Y/HOLE DEPTH (M) SAMPLE NO. **ASSAYS** DESCRIPTIVE GEOLOGY ر ا% Morronite Thard, ofresh, nottled pinks 0.3 cm gt, un trmo potassic aft present then 1918.3 915-918- 9 pt uns some in no 1-920 -921 thoritisation of biotite continues, 924 gs. 1925 1 926 927 1928

COMPOSITE DRILL LOG : 1:100 SCALE PROJEC HOLE No. GROUND ELEV .: 2930.0m CASING COLLAR ELEV. DATE STARTED : PAGE No. 23 OF n. /243/ 11793 COORDINATES DATE FINISHED : REF. TO CLAIM CORNER: INCLINATION T. Pollock AZIMUTH TOTAL DEPTH : LOGGED BY **ALTERATION** COMMENTS: SULPHIDES AVG. CORE S ESTIMATED FRACTURING REC'Y/HOLE SAMPLE No. % SAMPLE RECOVERED SAMPLE INTERVAL (M) GEOLOGY **ASSAYS** DESCRIPTIVE GEOLOGY -930 -930 2-0.1 cm 9ts-no ms Beginning @ 93/m good selt & pepper textured begins -931 1 100 932 [432. 933 - 933 934 100 935 1936 936 936- 939: 7 gt - no us 937 0.1 am of - mo vn. 0.6 cmcav. 0.2 cm of no vn. 10 938 100 939 O. Sangt-movn w O.3 cm gyp m cuts a O.1 cm gt-molon. 940 1 diss no on side of core 942 Ol congy m. 943 0.2 m env. 1.3cm 9+5-EN-pym.

COMPOSITE DRILL LOG 130 : 1:100 SCALE PROJEC HOLE No. July 25/8/ PAGE No. 64 OF GROUND ELEV.: 2930.0m CASING COLLAR ELEV.: DATE STARTED : 1/793 N. 1243/ E. REF. TO CLAIM CORNER: 53M & DO8° COORDINATES DATE FINISHED : -90° INCLINATION TOTAL DEPTH : LOGGED BY DRILLING
INTERVAL
' % CORE
RECOVERED
% SULPHIDES **ALTERATION** COMMENTS: AVG. CORE ESTIMATED REC'Y/HOLE GEOLOGY SAMPLE NO **ASSAYS** DESCRIPTIVE GEOLOGY Closimite -946 1/2/1/ 947 -948 -948 949 Tr 950 951 -952 1953 954 1955. <u> L</u>9519 956 1 957 -957 957-960: 5 06-10 ms 1958 7 100

COMPOSITE DRILL LOG SCALE Hatsoff July 25/81 : 1:100 HOLE No. CASING COLLAR ELEV. GROUND ELEV.: Z930.0m DATE STARTED : REF. TO CLAIM CORNER: 537@ 0000 COORDINATES DATE FINISHED : -90. INCLINATION AZIMUTH : T. Bllock TOTAL DEPTH : LOGGED BY **ALTERATION COMMENTS:** AVG. CORE SULPHIDES ESTIMATED % SAMPLE RECOVERED SAMPLE INTERVAL (M) REC'Y/HOLE **ASSAYS** DESCRIPTIVE GEOLOGY 1% Mo -20 -960 -961 962 963 963 969 -966 1966 967 968 196.71 drussy, locally grunbly 969 969 970 971 972-975: 973

COMPOSITE DRILL LOG : 1:100 CORE SIZE SCALE PROJEC HOLE No. GROUND ELEV.: 2930.0m July 25/8/ CASING COLLAR ELEV. DATE STARTED : PAGE No. 67 OF : //*793* N. 12431 COORDINATES REF. TO CLAIM CORNER: 53 m @ 008° DATE FINISHED : -90° INCLINATION **AZIMUTH** TOTAL DEPTH LOGGED BY **ALTERATION COMMENTS:** AVG. CORE SULPHIDES **SESTIMATED** REC'Y/HOLE % SAMPLE RECOVERED SAMPLE NO. SAMPLE INTERVAL (M) DEPTH **ASSAYS** DESCRIPTIVE GEOLOGY 100 alongyp vn Lonion, te 1/2/1/ 191 1992-993 996 1996 minor OK-felds par, no and, mither oftshoots. 997 10 0.1 cmgt, moun. 999 1500 1001 ex m wrag asum an. 1002 -1002 1003 1004 1005

COMPOSITE DRILL LOG : 1:100 CORE SIZE SCALE PROJEC CASING COLLAR ELEV.: GROUND ELEV .: 2930.0m PAGE No. 68 OF DATE STARTED : N. 1243/ REF. TO CLAIM CORNER: 53 A @ 008° COORDINATES DATE FINISHED : INCLINATION **AZIMUTH** : T. Pollock TOTAL DEPTH LOGGED BY **ALTERATION COMMENTS:** AVG. CORE REC'Y/HOLE **SESTIMATED** SULPHIDES DEPTH SAMPLE NO. **ASSAYS** DESCRIPTIVE GEOLOGY -*10*05 -1005 1006 1007--1008-1008 1009 1008-1011: 6 gts-no ms 1010 1011 1011 0,2 an of-no in w 2 mans. 1012 1913 104 1016 1017 1/48 199

COMPOSITE DRILL LOG 1:100 SCALE PROJEC CORE SIZE HOLE No. GROUND ELEV.: 2930,0m CASING COLLAR ELEV.: DATE STARTED : REF. TO CLAIM CORNER: 53M & 0080 11793 N. 12431 COORDINATES DATE FINISHED : INCLINATION AZIMUTH LOGGED BY TOTAL DEPTH DRILLING
INTERVAL
% CORE
RECOVERED
% SULPHIDES **ALTERATION COMMENTS:** AVG. CORE STIMATED REC'Y/HOLE FRACTURING SAMPLE NO. **ASSAYS** DESCRIPTIVE GEOLOGY -1050. 1050 Monzonite 1051 15 1052 1053 -1053 1054 1 1055 1056 1056 4057 1058 1059 1059 1060 1061 1062 1062 1 1063. 1064

COMPOSITE DRILL LOG SCALE CORE SIZE PROJEC HOLE No. July 25/81 GROUND ELEV .: 2930. Om PAGE No. 77 OF DATE STARTED : CASING COLLAR ELEV. REF. TO CLAIM CORNER: 53m @ 008 1243/ E. COORDINATES DATE FINISHED : -90 LOGGED BY INCLINATION TOTAL DEPTH AVG. CORE **ALTERATION COMMENTS:** SULPHIDES JA W ESTIMATED SAMPLE NO. % SAMPLE RECOVERED REC'Y/HOLE FRACTURING MINERALS GEOLOGY **ASSAYS** DESCRIPTIVE GEOLOGY 1140 1/4/ Tr 20 1/42 1143 1143 Tr 1/45 gopm w lamen wmo. Strong 1150 1152 -1152 1153

COMPOSITE DRILL LOG : 1.100 DATE STARTED: July 25/8 SCALE HOLE No. GROUND ELEV: 2930.Om CASING COLLAR ELEV. REF. TO CLAIM CORNER: 537 @ 0080 COORDINATES DATE FINISHED : INCLINATION AZIMUTH TOTAL DEPTH : LOGGED BY AVG. CORE REC'Y/HOLE **ALTERATION COMMENTS:** % · SULPHIDES SE ESTIMATED % SAMPLE RECOVERED SAMPLE No. **ASSAYS** GEOLOGY DESCRIPTIVE GEOLOGY 1/156 1158 1159 10 1160 ry, may then, long pot. env. 1/62 Tr -//63: 1/64 1165 NIL 1/66 -1/67 1/67 1/68 1/69

garang kanggan ang kanggan

