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 August 6 - August 21, 1980

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

Vancouver, B.C. September 19, 1980



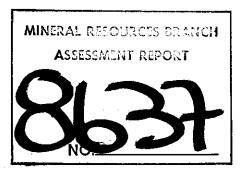


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SUMMARY

The 1980 exploration program on the Hatsoff Property consisted of drilling one hole to a depth of 701.6 metres in order to test a zone of quartz-sericite-pyrite-molybdenite stockwork. The drill hole was at an elevation of 2930 metres and located 53 metres away from the Hatsoff 1-4 Legal Corner Post at a bearing of 008°.

INTRODUCTION

Diamond drilling of one hole was carried out on the Hatsoff Property from August 7th to 28th, 1980. The drilling was totally confined to claim Hatsoff #2.

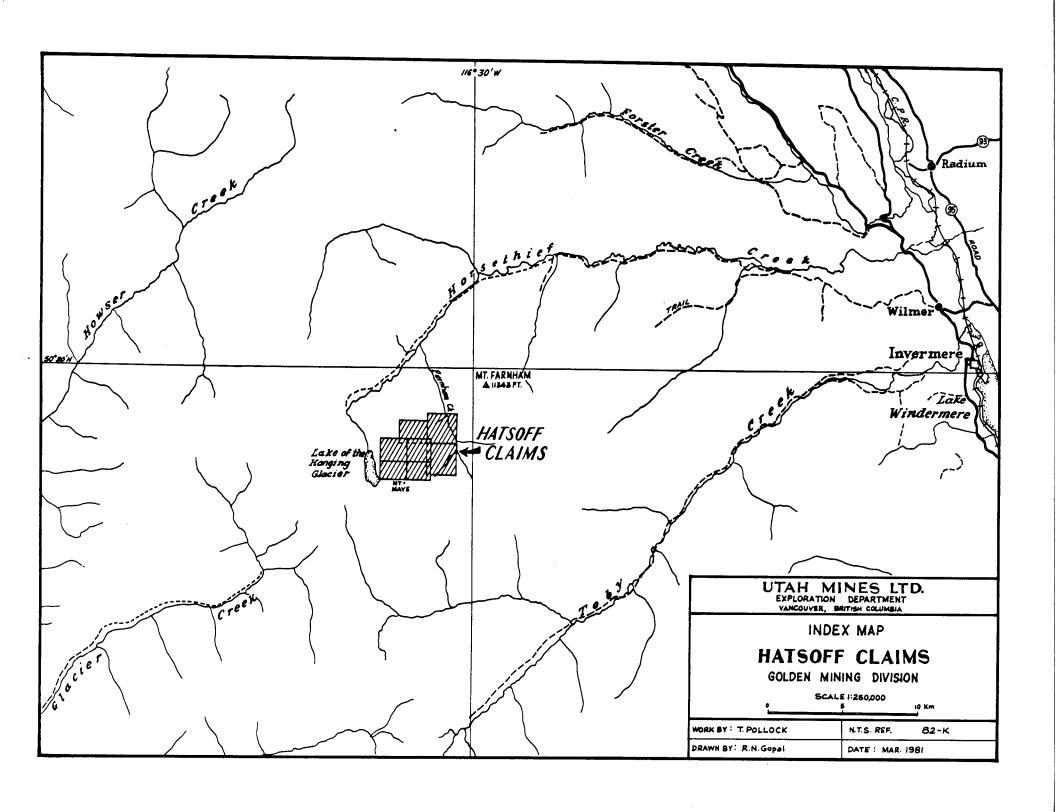
This report will claim the following as assessment work:
(1) the direct diamond drilling cost, (2) necessary camp costs, (3) helicopter costs, and (4) fuel costs.

The following Utah Mines Ltd. personnel supervised and performed the geological work for the Hatsoff prospect: T. Pollock, geologist, and M. Stewart, field assistant.

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 seven claims (85 units) covering an area of 1844 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 (totally 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. The Property is 100% owned and operated by Utah Mines Ltd.

DIAMOND DRILLING PROGRAMME

Drilling was performed by Longyear Canada Limited utilizing one Longyear "44" drill equipped to drill NQ core size. The camp and drill were flown up to the property from the access road by an Okanagan 214 helicopter on July 26, 1980. Drilling began 12 days later on August 7th after the camp and its facilities were erected. The hole was terminated August 28th, 1980.

Core was logged in detail by a Utah Mines Ltd. geologist, then split in half, with one-half of the core returning to the core box to be stored on the property. Of the other half, every other 3 meter section of core was sent for analysis while the other unanalyzed sections were sent to Utah's storage facility in Vancouver. The core that remained on the property was stored in wooden core boxes that were piled neatly up off the ground. All core boxes were clearly labelled with metal tags giving the hole and box number, and the meterage contained within.

The drilling was generally in good ground with an average core recovery of approximately 97%. The only major problem encountered in the drilling was from ice forming on the inside of the hole when the rods had to be pulled. Salt was used to control the amount of ice formation.

The depth of the first hole on the Hatsoff property extended to 701.3 meters. The following table gives the particulars of the hole drilled.

		(M)	Elev.	Date	Angle	Azimuth	Hole Depth
No.	<u>N.</u>	<u>E.</u>	<u>(M)</u> S	tart/Fini	ısn		<u>(M)</u>
HO-1	12790 12	2410	2930 Au	ig 7-Aug 2	28 -060 ⁰	012 ⁰	701.3

Data accompanying the drill report are found in the Appendices following this report. The data consists of the complete diamond drill log and associated assay log for the diamond drill hole HO-1 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.

DRILL HOLE GEOLOGY

Lithology:

Although only two basic rock types were encountered in hole HO-1, namely quartz monzonite and quartz porphyry, variations in these two rock types were numerous.

Quartz monzonite was the most predominant rock type occurring from 0 to 90 metres and from 480 metres to the bottom of the hole. This rock type was typified by its salt and pepper texture, equigranular appearance and low K-feldspar content. Above 540 metres where quartz monzonite was present, it typically was logged as the coarse grained phase of the Hanging Glacier Stock but below this depth the grain size decreased noticeably to a medium grain size. Associated with this finer grain size was the presence of large K-feldspar crystals averaging between one and two centimetres square, thus establishing this variety of quartz monzonite as the medium grained phase of the Hanging Glacier Stock as described by surface mapping.

The geology between 90 to 480 metres varied from a weakly porphyritic quartz monzonite with quartz phenocrysts to a quartz porphyry. Localized within this zone were sections up to 85 metres wide of non-porphyritic coarse grained quartz monzonite similar to that described above. Generally the contacts were gradational over several metres.

The presence and extent of well developed quartz porphyry rock increased with depth. The most continuous section was from 400 to 480 metres where the rock was characterized by a low mafic content (2-3%) and 10% rounded quartz phenocrysts set

in a fine grained granular groundmass of quartz and feldspar.

The number of dykes occurring in HO-1 was very small, totally less than ten. The dykes present were as follows: 1) feldsparquartz-biotite porphyry, 2) alaskite, 3) aplite, 4) quartz porphyry and 5) quartz-feldspar porphyry.

Alteration:

The most prominent alteration present in the drill hole was the direct result of vein formation and was of the phyllic alteration type. Most of the veins logged had associated with them quartz-muscovite (sericite) - pyrite alteration envelopes; their width being directly proportional to the width of the vein.

Alteration in the envelopes consists of feldspar and mafic minerals (mainly biotite) altering to muscovite and the formation of pyrite, partially from biotite. In veins larger than lcm, there is on occasion an envelope bordering the phyllic zone characterized by a pale green colour. This envelope would represent the final extent of the vein solutions that have penetrated the host rock and is characterized by plagioclase being altered by muscovite, carbonate and clinozoisite.

Where the rock was moderately fractured, fine veinlets (< lmm) of quartz, sericite and pyrite were common forming a stockwork pattern. Where this stockwork was present, for example in quartz monzonite, the rock lost its typical salt and pepper texture for a sparkly texture from a 10-20% contained sericite content.

Other forms of alteration observed that were only of local extent were propylitic alteration, and potassic alteration found in the envelopes of some quartz veins.

Mineralization:

Molybdenite mineralization throughout HO-1 was most commonly associated with quartz-pyrite veins and on occasion in their phyllic alteration envelopes. The molybdenite values were very irregular due to the fact that the Mo was mainly vein associated but generally the highest values were obtained in the first 180 metres of the hole. The values in this section averaged roughly 40 ppm Mo and then subsequently decreased downhole to an average of 8 ppm in the lower 200 metres of the hole.

Zinc and tungsten both increased downhole to values in the lower 150 metres roughly four times those found at the beginning of the hole. Sphalerite and to a lesser extent scheelite were commonly logged in quartz veins with or without pyrite below 500 metres.

Fluorine values showed slightly anomalous results over two sections of the hole. These were from 0 to 120 metres and 550-650 metres where values were on average 400 ppm higher than over the rest of the drill hole.

Other minerals logged were calcite, gypsum, beryl, tetrahedrite (?), garnet (along fault planes) and magnetite.

CONCLUSIONS

Results from D.D.H. HO-1 have indicated the following:

- The medium grained quartz monzonite phase found below 525 metres is anomalous in zinc, tungsten and fluorine with respect to the other rock units logged in the hole. It should be noted that this medium grained phase partially surrounds the alaskite unit on the central ridge.
- 2) Molybdenum values decrease slightly downhole.
- 3) Due to the small number and width of the dykes intersected in the hole, it was impossible to tell whether any of the dykes carried anomalous metal values.
- 4) Nearly all the alteration observed in HO-1 is phyllic in nature and associated with fracturing and quartz veining.

Surface mapping and the drilling of HO-1 have indicated that the best potential for molybdenum mineralization lies in the quartz-sericite-pyrite molybdenite stockwork zone. The fact that zinc and tungsten values are increasing with depth might suggest that good molybdenite mineralization is possible at greater depths. Since it was felt from field mapping a genetic relationship exists between the alaskite and pyrite-molybdenite mineralization, our drill target would be a mineralized alaskite related phase below the anomalous medium grained quartz monzonite. This quartz monzonite represents the core of the Hanging Glacier Stock.

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
Diamond Drilling	77,907.93	77,907.93
Okanagan Helicopter	17,365.95	95,273.88
Shirley Helicopter	16,546.99	111,820.87
Camp Cost		
(E.G. Walley & Sons Ltd.)	12,162.80	123,983.67
Fuel	5,684.52	129,668.19
Eddies Fairmont Grocery	2,848.35	132,516.54
Power Lease & Export	1,883.76	134,400.30
Sperry Sun Rental	1,070.00	135,470.30
Thiessen Equipment Ltd.	861.12	\$136,331.42

Depth drilled up to and including August 21, 1980 = 567.84mTotal meterage drilled = 701.30m

Therefore, total value of assessment work spent up to and including August 21, 1980 equals:

 $\frac{567.84m}{701.30m} \times \$136,331.42 = \$110,387.03$

APPENDIX C

MAJOR INVOICES



8/11/80

Longyear Canada Inc.

CONTRACT DRILLING DIVISION

721 Alaford Avenue

Annacis Island, New Westminster, B.C., V3M SP5

Terephone: 604-524-2511

Telex. 43-51280

Invoice No. 8555 Cust. No. 6051 Job No. 6277 Dest. 062

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

Utah Hatsoff
Invoice date: August 6, 1980
for July 1980

To: Invoice regarding diamond drilling programme on Hatsoff Project near Invermere, B.C., during period July 24-28, 1980 per agreement dated March 21, 1980.

Move In To First Site 46 1/2 hours @ 74.00 93 hours @ 23.00

3,441.00 2,139.00

\$5,580.00

Longyear

0/8/80

Utah Mines Limited Exploration Department Suite 1600 -1050 West Pender Street, Vancouver, B.C. V6E 3S7

Longyear Canada Inc.

CONTRACT DRILLING DIVISION

721 Alaford Avenue

Annacis Island, New Westminster, B C.

Telephone. 604-524-2511

Telex. 43-51280

Dest.

DECENTED

Invoice No. 8713 Cust. No. 6051 Job. No. 6277 SEP4-1980

UTAMA MENUES LTD. EXPLORATION DEPT.

Utah Hatsoff
Invoice date: August 29, 1980
for August, 1980

062

To: Invoice for diamond drilling performed on Hatsoff project near Invermere, B.C., during period August 05-15, 1980 as per agreement dated March 21, 1980

Hole No.	Size	From	To	Total	Rate	Amount
H01	NQ Wireline	Ø 1600	1000 1085	1000 85	21.20 23.30	21,200.00 1,980.50
				1085		23,180.55
Drilling	Mud & Additiv	ves (attache	ed)			
Thiessen Valley Bu	Equipment Ltdus Ltd.	1.		,	949.52 8.00	
					957.52	
		Plus 18%			172.35	
						1,129.87
Client Ch	narge - attacl	ned				
Travel He E.W. Hage	eadquarters en			-	302.40 1,278.50	_
		Plus 18%		_	1,580.90 284.56	_
			·			1,865.46
Move in t	o Hole HOl	<u>-</u>				
25 hours 34 hours		0 \$74.00 0 \$23.00		_	1,850.00 782.00	
•				-		2,632.00



Longyear Canada Inc.

CONTRACT DRILLING DIVISION

721 Alaford Avenue

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

Telephone 604-524-2511

Telex. 43-51280

Utah Mines Limited

page 2

Invoice No. 8713

Reaming Casing & Cave

Hole H01

15 hours	@ \$74.00	1,110.00
1 NQ Bit GR.32827 1 NQ Bit SI.35835	431.60 322.40	
1 NQ Bit SI.35833	322.40	
1 NQ Shell E.2253 1 NQ Shell E.2252	161.20 161.20	
Prorated recovery - se		

Plus 18%

1,398.80 251.78

1,650.58

2,760.58

\$31,568.41

Longyear

SEP 1 5 1380

9/17/50

EXPLOTATION

Longyear Canada Inc.

CONTRACT DRILLING DIVISION

721 Aidford Avenue

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

Telephone: 604-524-2511

Telex: 43-51280

Invoice No. 8714 Cust. No. 6051 Job No. 6277 Dest. 062

Utah Mines Limited, Exploration Department, Suite 1600-1050 West Pender St., Vancouver, British Columbia V6E 3S7

Utah Hatsoff Invoice date: September 10, 1980 for August 1980

To: Invoice for diamond drilling performed on Hatsoff project near Invermere, B.C. during period August 16-30, 1980 per agreement dated March 21, 1980.

Hole No.	Size	From	To	Total	Rate	Amount
HO-1	NQ Wireline	1085	<u>15</u> 00	415	$\overline{23.30}$	9,669.50
	NQ Wireline	1500	2000	500	26.10	13,050.00
	NQ Wireline	2000	2301	301	29.75	8,954.75
	•			1216		31,674.25

Reaming Casing and Car	ve - Hole HO	1-1		
10 hours @ 74.00				740.00
1 NQ Bit SI35836		N/C		
1 NQ Bit SI35840		N/C		
1 NQ Bit SI35841		322.40		
-1 NQ Shell E2252 (char	rged previou	ısly) -		
1 NQ Shell E2253	ff 1f	-		
1 NQ Shell E5041		N/C		
Prorated recovery for	SI35841	(228.90)	CR.	
Prorated recovery for	Invoice			
•	8713	(1,038.28)	CR.	
	•	(944.78)	CR.	
Plus	18%	(170.06)	CR.	
· · · · · · · · · · · · · · · · · · ·			(1 .114 .84) CI

(374.84) CR.

Drilling Mud and Additives - attached
Thiessen Equipment Ltd.

Plus 18%

85.44

560.10

Left in Hole
Hole HO-1

1 NW Casing Cap

1 NW Shoe E751

1 NW 5' casing

NW 10' casing

Plus 18%

Plus 18%

438.11

Invoice No. 8714

CONTRACT DRILLING DIVISION 721 Aldford Avenue Annacis Island, New Westminster, B.C. V3M 5P5 Telephone: 604-524-2511 Telex. 43-51280 Utah Mines Limited 2...

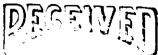
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Water Supply Hole H0-1 15 1/2 hours @ 69.00		1,069.50
Client Testing Hole HO-1 7 1/2 hours @ 74.00		555.00
Lost Circulation Hole HO-1 4 1/2 hours @ 74.00		333.00
Client Delays Hole HO-1 24 hours @ 69.00		1,656.00
Move Out From Hole HO-1 18 hours @ 74.00	2.00	1,700.00
Demobilization Lump Sum		2,670.00
Core Splitter 1 Longyear Core Splitter #9326		478.40
	\$	40,759.52

OTERS OF THE CONTERS

OKANAGAN HELICOPTERS LTD.

4391 AGAR DRIVE, RICHMOND, B.C. V7B 1A5 TELEPHONE (604) 278-5502 TELEX 04-355594



AUG 1 1 1980

8/12/10

UTAH MINEL 1. EXPLORATION BLAT.

Utah Mines Ltd. 1600 - 1050 W. Pender St., Vancouver, B.C. V6E 3S7

17 5X

1-6069

30/ 07/ 80

OUR REFERENCE NO.

CUSTOMER P.O. NO.

PAGE

85027

TO

1

For charter of our 214 helicopter, GJNU

Flying July 25-27, 1980 as per attached flight report #'s 377389 - 377391

10.4 hours @ 1650.00 per hour

\$ 17160.00

Plus oil supplied by Okanagan Helicopters Ltd.

10.4 hours € 2.50 per hour

26.00

Plus Expenses

A. MacDougald # 60301

179.95

\$ 17365.95

Payment Terms: 30 days from date of invoice.

Interest at 1½% per month will be charged on overdue invoices.



INVOICE

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

9/2/80

August 22, 1880

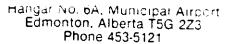
TO

Utah Mines Ltd., Suite 1600 - 1050 W. Pender Street, Vancouver, B.C. V6E 3S7

ACCOUNTS DUE WHEN RENDE	PAYABLE AT	E AT PAR EDMONTON				
CUSTOMER'S ORDER NUMBE	А	HELICOPTERS		PILOT		
		C-GLMW	Levesque			
		DESCRIPTION		CHARGES		
August 13, 1980	76033	1.3 hrs. @ \$375. per hr.		\$ 4 87.50		
,	,0055	Plus Fuel @ \$1.30 per gal fo	r 32.5g.	42.25		
August 15, 1980	76041	Plus 0il @ \$1.20 per hr. 1.9 hrs. @ \$375. per hr.		1.56 712.50		
		Plus Fuel @ \$1.30 per gal fo	r 47.5g.	61.75		
		Plus Oil @ \$1.20 per hr.	_	2.28		

A 12904

TERMS NET 30 DAYS \pm 2% PER MONTH CHARGED ON CVEPDUE ACCOUNTS





August 28, 1980

TO

Utah Mines Ltd., 1600 - 1050 W. Pender, Vancouver, B.C.

0/5/86

ACCOUNTS DUE WHEN RENDERED		PAYABLE A	T PAR EDMONTON
CUSTOMER'S ORDER NUMBER	HELICOPTERS		PILOT
	C-GIMW	Levesqu	e
	CHARGES		

August 20, 1980 76051 4.4 hrs. @ \$375. per hr.
Plus Fuel @ \$1.30 per gal for 30g.
Plus Oil @ \$1.20 perhr.

\$1,650.00 39.00 5.28

\$1,694.28

A 12980

TERMS NET 30 DAYS $\pm 2^{\circ}$ PER MONTH CHARGED ON CVERDUE ACCOUNTS

OFFICE COF +



August 29, 1980

TO

Utah Mines Ltd., 1500 - 1050 W. Pender Street, Vancouver, B.C. V6E 3S7

9/10/80

ACCOUNTS DUE WHEN RENDERED	······	PAYABLE A	T PAR EDMONTON	
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	DESCRIPTION		CHARGES	

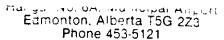
August 28, 1980 76073 3.0 hrs. @ \$380. per hr.

Plus Fuel @ \$1.30 per gal for 75g.

Plus Oil @ \$1.20 per hr.

\$1,140.40 97.50 3.60

\$1,241.10

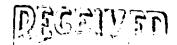




September 9, 1980

TO

Utah MineslLtd. 1600 - 1050 West Pender Street, Vancouver, B.C. **V6E 3S7**



SEP 1 2 1980

UTAH MINES .

EXPLORATION DE .- PAYABLE AT PAR EDMONTON **ACCOUNTS DUE WHEN RENDERED** CUSTOMER'S ORDER NUMBER HELICOPTERS PILOT C-GLMW Levesque DESCRIPTION CHARGES

5.2 hrs. @ \$380. per hr. Plus Fuel @ \$1.30 per gal for 40g. September 3, 1980 70785 \$1,976.002 52.00 Plus Oil @ \$1.20 per hr. 6.24 \$2,034.24

A 13340

TERMS NET 30 DAYS - 216 PER MONTH CHARGED ON GVERDUE ACCOUNTS.

OFFICE COPY

INVOICE N: 9672

/HONE: 433-5141

SOLD TO Utah Mines Ltd.,



5791 BERESFORD STREET BURNABY, B.C. V5J 1J9

June 23/80 -

DIAMOND DRILL REPAIRS & SERVICE CORE BOXES WIRE-LINE HOISTS

TERMS NET 15th OF MONTH FOLLOWING SALES TAX LIC. No. نا تــ تــ لانت S.S.M.A. TAX No.

#1600 - 1050 West Pender St., VACCUVER, 3.C. EXTRA CUSTOMER'S ORDER No. 8549 SHIP TO Above, Invenere, E.C. ORDER DATE SHIPPING DATE June 23/30 Apr. 7/80 P.P.D. COLL. OUR ORDER No. VIA 4225 Direct Transportation System .` . DESCRIPTION UNIT PRICE QTY. SHIPPED AMOUNT GTY. ORDERED BACK O. To supplying Material and Assembling Components for rour only Presacritated Caro Shacks. 457 4% PST TERMS: As per our letter of March \$1/80: \$ 1,695.00 on receipt of Orfer 3 5.000.00 on completion, シシシ 5,000,00 on delivery Balance owing: . 10,000.00 Luo on rosean UTALL JE VA #TO,467.80 of Invoice EXPLOS Harolt. TERMS: ACCOUNTS DUE & PAYABLE ON OR BEFORE 30 DAYS FROM DATE OF INVOICE. 2% PER MONTH TOTAL 0 12,162.30 9672 CHARGED ON OVERDUE AMOUNTS

STATEMENT

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UTAH HINES LTD 1600 - 1050 WEST PENCER ST VANCLILIVER BC

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GULF GANADA

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PLEASE PAY

TOTAL DUE

9/10/80	
FARMONT HOT SPRINGS, B.C.	
M Mate Sept 4	19 80
1 Grocery Bill 2 Son Jely Hay.	
3 2 8 ⁴	48,35
6 My The Thanks	
10 g. femery	Goods.
11 12 13 SEP 8 - 1980	
UTAH MINES LTD.	

POWLR LEASE & EXPORT

BOX 1209, PLANTE, WARRINGTON 66230 BOX 1215, VARCOUVER, D.C. 1988 403 D HEALY

 \Diamond

8 Utah Mines Limited

Suite 1600-1050 West Pender Street

Vancouver, B.C.

6 VSE 337

02/21/3.

S T Utan Mines Ltd c/o
S Jhirley Helicopters,
E Fairment Hot Springs B.C.
T Air Frt to Vancouver
O Greynound to Fairment.

	E DATE	FEDERAL SA	LES TAX NO.	ACCOUNT NO.	YOUR OPDER NO.	OUR ORDER N			SALES	MAN
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v June	25/80	Cha	arge	•	Montreal,	cueb é c '	8 11	Frt	_ &c _ 0	reyhound
QUANTITY ORDERED	QUANTITY SHIPPED	BACK ORDERED		DESCRIPTION			UN	IT PRICE	PER	AMOUNT
Lot	Lot	0	Lct of lightning protection materials as described in detail in our quotation V-865, for the sum of					† † † 1		\$1, 695.29
6	6	0	No 67B Bases (formerly No. 60)				••	9 53		57.18
5	5	0	No. 89	Points (for	merly No.	331A)		1,77		58.39
				P 1 u:	s 4% S.S. 1	ſax	• •			1,611.31
				4 678 & 4 # and snipped v 2 678 and 1 from B.Richar Howe at Mtn 1	sith origin = 89 added rds and ser	nal lot. I by tel. nt to J.	,	• • • • • •		\$1, 383.73
F 4	4603	TERMS:	Net 30	days	2		1	OTAL	\rangle	\$1,883.79
STOCKFORMS #1016-5 SMALL INVOICE UNRULED					ε	4 0 E				

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YOUR CHEQUE IS YOUR RECEIPT PLEASE PAY LAST AMOUNT . .

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EDMONTON, ALBERTA

T6E 4S8

JOB No. RENTAL ORDER No. INVOICE NO. DELIVERY TICKET No. INVOICE DATE SSB-753 19800731 C 10651 FROM TO DATE SHIPPED VIA CUST. ORDER No. UTAH MINES LTD. EDMONTON PWA 19800624 UTAH MINES LTD. 1600, 1050 WEST PENDER STREET VANCOUVER, B.C. **V6E 3S7** 8/12/20

TERMS: Net 30 Days.

PROBE No.

MONTHLY RENTAL (NR) OF STANDARD SPERRY-SUN MAGNETIC SINGLE-SHOT INSTRUMENT COMPLETE, TYPE "B" FROM JUNE 24/80 THRU JULY 23/80 ONE (1) MONTH @ \$1,000.00 PER MONTH	\$1,000.00
MONTHLY RENTAL (NR) OF STANDARD SPERRY-SUN 90-DEGREE COMPASS ANGLE UNIT ONE (1) MONTH @ \$70.00 PER MONTH	70.00
_ARESEORTATION CHARCE: PWA, AWB # 227-41992661 -	31.90
TOTAL INVOICE AMOUNT	\$1, 101.90

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RENTAL CONTINUED

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THIESSEN EQUIPMENT LTD.

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DATE:

August 14, 1980

INVOICE TO:

Utah Mines

\$1600 - 1050 W. Pender St. Vancouver, BC V6E 3S7

CONSIGNED TO:

Above @ c/o Whirley Helicopters

Fairmont, BC

U / H ... 135 ETD.

INVOICE No

8219

SHIPPED VIA		PREPAID	COLLECT	SHIPPING ORDER No.		
Public			X	D 21920		
SHIPPING DATE	FEDERAL SALES TAX	PROVINCIAL	SALES TAX	CUSTOMER'S ORDER No.		
August 14, 1980	Exempt	4% Extra		8827		

8/19/8

Quantity	Unit	Description	Unit Price	Amount
36	88 1 b	Calcium Chloride	\$23.00/ea	\$628.00 33.12
				\$861.12
				:
		After 30 days interest of 11 will be charged on Declining Account Balance.		

APPENDIX D

DIAMOND DRILL LOG

PROJECT: Ha, ff HOLE NO .: 10-1-80 PAGE NO .: / OF 47 REF. TO CLAIM CORNER: 53m @ 008° COLLAR ELEV .: 2930.4 m DATE STARTED: August 7/80 GROUND ELEV. : N. 12431 BEARING: 0/2 " TOTAL DEPTH: ALTERATION COMMENTS: REC'Y / HOLE MATED SECTION DESCRIPTIVE GEOLOGY Casing 3 meters (10') Coarse Grained Quartz Monzonite 4 -equigranular, homogeneous, moderately hard, salt and pepper texture, 15% 9tg, 10% matics A Fractures @150+550 gossant 43.8 (mainly biotite, minor hbl) some of matics Sericite Same, ruggy with py + 93.3 slightly chloritized, 74% white felds por, Gtz vein @ 350 for wide, vuggy with sericite + gtz, XL's in vugs, also 22 diss. py. (mainly plag) 12 py & sericite which is mainly concentrated about or within 100 9tz veins or siliceous patchs. py + seriete Fractures e15°+45° mainly coated upper 9 reters of core has a slightly with gossan, minor sericite try rusty colour through & .22-7.6 93.5 10 Vein 865, Icm of mainly py, minor 11.3-12.1 mi high 9tz content (225%) due to 126 mo.

Of veinlete 25, 9cm wide with 9tz veins + silieeous zonea associated with the 9tz is moderate py +, sericite. py + minor mo. 12 100 Fractures e 5, 25 + 35; all gossan coated. similar to above with fractures coated with gossan, gtz + py veinlets common, occasional large plag crystal -1.5x.50m Two gtowers @ 30, 2-3.5 cm wide Minor py + sericite.

PAGE NO.: 2 or 47 PROJECT: Hatsorf HOLE NO.: > DATE STARTED: August 7/80 2930.4 REF. TO CLAIM CORNER: 534 @ 0080 MOUND ELEV .: 2930,2 COLLAR ELEV,: DATE FINISHED: August 28/80 SCALE: 1:100 COORDINATES: LOGGED BY: Tom Pollock INCLINATION: -680 BEARING: 0/2° TOTAL DEPTH: AVE CORE ALTERATION COMMENTS: REC'Y / HOLE MATED MINERAL SECTION DESCRIPTIVE GEOLOGY -15 Fracture e 5, along a gto tpy on 2mm thicky conted with gossar. Coarse grained quartz Mongonite
quite fresh, + homogenens, occasional large 93.5 16 Vaialet E7, 2mm of 9t3 + PY feldsper crystals (some to 2 x 1.5 cm) × weak .56-16.8 9tz veins with py commm, all tractures 0 Fracture @ 250, coated with gossan chloritization of biotite that, most of the sericite along fractures or associated with at mine. 100 19 Vein @ 180, km of gtz with py at 15-2020 gtz, 102 matics, rest mainly k-falling. 52 194 Zυ Fracture @30° coated with py, 9tz large feldspar crystals, few veins, just rusty tracture @50°, minor gossont service tractures. 21 22-229 -23 Otz vein@20, 1.3 cm of gtz with rock has 2/5% sericite + 1.5% py 96.6 24.0-26.2 m: moderate clay atteration of teldyals 124 felds pars have a pale green colour + are easily scratched, crumbly + locally has zones or being high in sericite tpy, minor mo -25 crumbly .22 -26.17 on fractures. 26 Fracture @ 20, minor day. 27 -27 > Fractures @ 50 moderate clay minor 28.05-28.5m: highly fractured + locally country. 100 gossan + e 55; the same with py tractures couted with gossan + clay.

Otz vein e 45°, white with disseminated filicitication associated with zone + with it

Porto, sericite conc at vein edges sericite + minor mo. 28 Otrveine 159 . 60m with py, ser + mo

-/-80 PROJECT: Hatsory HOLE NO.: 77 PAGE NO.: 3 OF 47 2930.4 DATE STARTED: August 7/80 COLLAR ELEV,: MOUND ELEV.: 2930m REF. TO CLAIM CORNER: 5374 @ 0080 DATE FINISHED: August 28/80 11793 1243/ e. COORDINATES: SCALE: /1/00 LOGGED BY: Jon, Polland 701.3M INCLINATION: -60 BEARING: 0/20 TOTAL DEPTH: ALTERATION COMMENTS: AVE CORE ESTI-FRACTURING REC'Y / HOLE SULPHIDES
DRILLING
INTERVAL
% CORE
RECOVERED
CORE
SIZE MATED GEOLOGY MINERAL SECTION DESCRIPTIVE GEOLOGY - 30 30. Veralet 8.45, 3mm of 9t, tpy/an me Course grained Quartz Mongarite of py+ ser on either side. quitefresh, + hard, homogeneous 202 gtz .31 Fracture @ 450, Minorpy + 9053an Veinlet of ser, alterition (10%) 10% matics + mainly biotite, which are partially 1.5% 32.0 Cuts al vinlet of potassic ateration altered to chlorite; pyt sericite mainly -32 concentrated along veins. Oty on @32.5°, 3.5 on wide with 32.05-3307m: vein like zone of medium grained 93,3 -33 33 monzonite, zone some what bleached compared to y, my trace fl 133.5 surfounding rock, sharp contacts & 30. Ot on e50, SAM of 9t3, Py MINOR -34 the ser along contacts .42 34.7 3re @ 300 of potassic afteration? where not cut by year the rock is fresh with -35 3 m wide, nost feldsper pink. Fracture @ 40; mor gossan. There appears to be 3 sets of veins 1) 9th uns , 2) 9th veins with or without py that have -36 from the on to the wife goved green colonyation of the mongante 36 87.1 sericite zones for 2/cm then a fam zone of green -3.7 Two veights (3mm) of weak potassic alteration, +3) uns of potassic alteration al .22 37.81 the py a sericite is associated with ateration, one @30° of Bets the 38 other @150 by . Som. occasional teldsporkl's to 2x1.5 op. 39 Fractures @ 35+55 minor gosson + 39 une 25, 2 cm wide with PY, 39.5m - 49.8 mi Bone of weak to moderate .40 Hace no, Plak feldspar on either alteration. 250% of the feldspars 100 Vein @229,50m of gts tpx are pink + the zone has numerous gtz wins. From 42.05 The rock Is quite siligens + Vein @28, 1.5 an of ots, py, trace from 42.05-42.5 the rock has moderate Mu, fracture along un 408 - 42sericite with mos Bone @30; 3 Som of at 1 py, mo rock typically tos few matics = 25 sesicité. with a pale pinkish + green colour. 12 Fractures @ 30" +60, +@35, in -44 the opposite direction, minur gossan. Its in @ 20, 5 mm wide with PY

-1-80 HOLE NO .: / Hat soi 1 PROJECT: PASE NO.: DATE STARTED: August 7/80 REF. TO CLAIM CORNER: 534 & DOS MOUND ELEV.: 2930 M COLLAR ELEV,: 2930.4 DATE FINISHED: August 28/80 m. /243/ SCALE: ///00 COORDINATES: INCLINATION: -60 DEARING: 0/20 TOTAL DEPTH: LOGGED BY: AVE CORE ALTERATION COMMENTS: ESTI-REC'Y / HOLE MATED FRACTURING MINERAL DRILLING
INTERVAL
% CORE
RECOVERED
CORE
SIZE SAMPLE INTERVAL % REC'Y. SAMP INT GEOLOGY SECTION DESCRIPTIVE GEOLOGY Time of weak to moderate potassic alteration continues. 45.25-45.6 m: pagnatitic, very coasse grained feldspar + 9tz , 12 py. teldspars look, to be intermediate between K-feldspar 46.9 100 17.5-48:11: highly fractured with gossar on the fractures. .7% Contact shop @ 30: -50 Valt @25°, 2mm of off opp, minor Coarse grained gtz mongonite -503 quite fresh, salt peppet texture, similar, Fracture @ 35°, winor Py -51 veins. These veins either give a greenish colour to the rock or a pink potassic alteration colour. Fracture @20, minor coating by PY, 52 967 .72 528m: thin (2/mm) units of 9th try with Vein @50,2cm wide of gtz w PY at edges, then sericities while all .53. associated service + green attention gones. -53.3 MINOT MO. 417 tpy unit @30°, 2 mm wide 54 54 similar to above. due to many of ms thanking 3.5 in wide potassic alteration which have sericite + on either side. 96.8 Oto on @ 250, 4cm with some Kefeldspariser tpy on edges minor no units in the rock green colored alteration, the typical salt - pepper texture is commonly masked. along these wilts the matics are wiped .52 Plactures @ 35, runor gossan to -56.4 on # + the plagioclase is turned pale green.

K-feldspar occurs within & along some of
the lorger (</on) 9tz veins. Fractures C20+2/16 core axis
Mod. coating by py gosson + ser.
Of the unice 250/ Form wide w
form k-fuldsper along on similar
to above fractures # to this on. 57 100 .42 Fractures, @ 22, Minor gosson, PY raffwes @ 65+25 puderate
asssen by + serie He

-1-10 PROJECT: Hatsu, + PAGE NO.: 5 OF 47 HOLE NO.: REF. TO CLAIM CORNER: 53M & 908° 2930.4m DATE STARTED: August 7/80 CROUND ELEV.: 2930 m COLLAR ELEV.: August 28/80 //7-93 H. /243/ SCALE: //100 DATE FINISHED: COORDINATES: LOGOED DY: T. Pollock BEARING: 0/2" 701.3M TOTAL DEPTH: INCLINATION: AVE CORE ESTI-ALTERATION COMMENTS: REC'Y / HOLE MATED SAMPLE INTERVAL MINERAL GEOLOGY % CORE SECTION DESCRIPTIVE **GEOLOGY** 60 Fractures 830° Coaise grained gtz monzonite Va of st. type 7,5 mm with who less vein of coarse of the fellow (miner sericite) from of ser either side plus ple 61.5 m: Vein of coarse of the fellow (miner sericite) given att. (10m). -61 100 Grandar of typeser zone & 45° pink feldsper rock is f.g. as well green att. ranular of the ser zone @ 45 can wider to some & filosoper to rean att. 63 63 Fractures CSO; nod gosson. 100 64 12 65 65.9 1.5 can zone of glz, py+ sor, pule green alt. on edges tracture up center of zone 66 -py on 920°, 5mm w ser+ -67 Vn @ 25 of potassic att. From wide to green salvages. 969 .18 -68 -68.6 69 Bone @50, You with no at the coafer w py, then ser & green 69 - 70 Fractures 15-38, weak 100 .32 gossan, pyrsus 71 -71.6 72.3m = due to the high number of 9th ofpy vns + vn/ts to associated potassic alt. having a more bleached colour. 72 -72 -73 the rock has a pule green pink colour to locally my 220 nations. one have no set correctation + as their density increases the pot alt e edge on @ 30, 5 mm w no.

6 0 47 -480 DATE STARTED: August 7/80 BEP. TO CLAIM CORNER: 534@ 008° 2930.4m COLLAR ELEV.: August 28/80 Pollar LOGGED BY: TOTAL DEPTH: INCLINATION: AVE CORE ESTI-ALTERATION COMMENTS: REC'Y / HOLE MATED FRACTURING DRILLING INTERVAL % CORE RECOVERED MINERAL GEOLOGY SECTION DESCRIPTIVE GEOLOGY **-**75 Coarse grained of mongonite Fractures @ 150+300, both -76 Orted to gossan, pyrsar.

Oto in (/mm) to minor sert weak
Opotassic alt. 18.7 NQ .32 -77 This on X-cut by another @60; so mo 78 -79 100 locally porphyritic from white to pale -22 pink phenoxysts. I con zon @ 30; of K-fildsportplay -50 Main un type is of they to service selvages to sometimes to pot alt. for a few rais -808 Otyppy unit @ 45° 2 mm wide, 5 mm ett + ser se lunges Fracture @ 20°, coated is gossan 82 100 Gtz+py un@ 20, Smn thick, -83 through this section the rock becomes fines grained to the salt + pepper texture failes 1838 84 84 Ots-py in e15% Ymm thick, pot -85 96.5 .82 wear 86.7 Qts +py on from 86.8-87.6 211 87 -87 to core axis, 3mm w typical alt. lets-py in w rinor mo @200 -88 96.8 K-feldsper content increasing slightly. 3.5 cm zone of chl, py reser 81.8 90

PAGE NO.: 7 OF 47 COLLAR ELEV .: 2930.4m August 7 80 REF. TO CLAIM CORNER: 534@ 8080 DATE STARTED: N. 12431 COORDINATES: 70/.3 h 0/20 INCLINATION: BEARING: LOGGED BY: TOTAL DEPTH: ALTERATION AVE CORE COMMENTS: ESTI-REC'Y / HOLE MATED SECTION DESCRIPTIVE **GEOLOGY** -90 Fracture 2409 coated to govern Of monzonite to Otz Porphyry 1907 100 Otz-py units @ 45, ang 2 are that 10-152 gtz of which 52 is ptz phonocysts 91 100/14 At + py on @ 20° has some k-felder locally the rock is aphanitic + creamy coloured (all plag?) also locally the rock is very high in biotite (225%) to pet. -93 100 Gossen conted fractures @ 40° 1943-py on @ 35% /mm thick 96 100 Of yn to river no C30, In white the winder winde to a 2 on 3 one on either side of gtz + ser 1986 99 the rock through this section takes on many variations. - typically n.g., matics vary from 1-10% prost of which is birtite, ninor mt. locally there are no rounded glots or zones of high matic content (25-30%). -99 100 100 Hy py m @ 35,5 mm thick Fracture @ 25, minor py. -100 102 102 -103 -104 Fracture @30; minor gossar

HOLE NO.: - 1-80 COLLAR ELEV,: 2930.4/ COORDINATES: //793 INCLINATION: -60°	on the second elevity of the second elevity $\frac{1}{243}$ is a second elevity of the second elevity $\frac{1}{243}$ is a second elevity $\frac{1}{243}$ in the second elevity $\frac{1}{243}$ is a second elevity $\frac{1}{243}$ in the second elevity $\frac{1}{243}$ is a second elevity $\frac{1}{243}$ in the second elevity $\frac{1}{243}$ is a second elevity $\frac{1}{243}$ in the second elevity $\frac{1}{243}$ is a second elevity $\frac{1}{243}$ in the second elevity $\frac{1}{243}$ is a second elevity $\frac{1}{243}$ in the second elevity $\frac{1}{243}$ is a second elevity $\frac{1}{243}$ in the second elevity $\frac{1}{243}$ is a second elevity $\frac{1}{243}$ in the second elevity $\frac{1}{243}$ is a second elevity $\frac{1}{243}$ in the second elevity $\frac{1}{243}$ is a second elevity $\frac{1}{243}$ in the second elevity $\frac{1}{243}$ is a second elevity $\frac{1}{243}$ in the second elevity $\frac{1}{243}$ is a second elevity $\frac{1}{243}$ in the second elevity $\frac{1}{243}$ is a second elevity $\frac{1}{243}$ in the second elevity $\frac{1}{243}$ is a second elevity $\frac{1}{243}$ in the second elevity $\frac{1}{243}$ is a second elevity $\frac{1}{243}$ in the second elevity $\frac{1}{243}$ is a second elevity $\frac{1}{243}$ in the second elevity $\frac{1}{243}$ is a second elevity $\frac{1}{243}$ in the second elevity $\frac{1}{243}$ is a second elevity $\frac{1}{243}$ in the second elevity $\frac{1}{243}$ is a second elevity $\frac{1}{243}$ in the second elevity $\frac{1}{243}$ is a second elevity $\frac{1}{243}$ in the second elevity $\frac{1}{243}$ is a second elevity $\frac{1}{243}$ in the second elevity $\frac{1}{243}$ is a second elevity $\frac{1}{243}$ in the second elevity $\frac{1}{243}$ is a second elevity $\frac{1}{243}$ in the se	oject: Hats. f te started: August 7/80 te finished: August 28/80 tal deptu: 701.3	PAGE NO.: 8 OF 4 REP. TO CLAIM CORNER: SCALE: ; 00 LOGGED BY: Tom	7 53m e 008° Pollock
SECTION // ca	comments: Ptz-py un cut by	y 9tz-py vn with cal, morsph.	AVE CORE REC'Y / HOLE	CORE ONE ONE ONE ONE ONE ONE ONE ONE ONE ON
		CRIPTIVE GEOLOGY	2. SUL 2. SUL DRI	RECC SAN
Moduste 201-	I'm zone of 9tz, Py+ser @ 30° fracture up center of 3me	Transition between 9tz mmzmite porphyry. generally homogeneous, equipmentar,	22	93.8 NQ
100/1 100 mg 100/1 / 1	Otz-py-ser un, fracture up conter Otz-py un @ 50 from 109.3-108.8m 355m with minor mo conca along	with 702 feldspor (13 K-feld matics 5-72, of this minor m there are high cone's of mas	dspar) to locally lies.	7.9 108
100 2	Fracture @ 25°, Minor Py.	110.5 m: Vein @ 65; 1.5 cm wide or py + ser. Good potassic alters either side.	f gts, cakite	7.9 /11/
-1/51 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	along the edges, this on is cut by another gt, on @ 22° w py calcite, moint a resinous brown			
117 - 117 - 118 -	Mineral (sph). Fractures & 40°, Minor pyrgosson	Similar to above	2-32 frace	7.0 1/7
-118- -119- -120.			Progenitive of the second	189.5 189 100 120

DATE STARTED: August 7/80 REF. TO CLAIM CORNER: 53M C 0080 BEARING: 0/26 701.3 M LOGGED BY: John TOTAL DEPTH: ALTERATION COMMENTS: REC'Y / HOLE MATED SECTION DESCRIPTIVE GEOLOGY To smeared on fracture with gossan @ 450 4+3 - monzonite homogeneous, equigranular + m.g.,

the # of veins has dropped stroches
alteration which in turn gives a more
consistant colour to the rock **L**/2/ Fractures @ 45° moderate py +@ 50° w niver py 100 NG Ptz-ser zone @25; with trace Mo, 3, mm wide 100 46 - Vein @ 20°/.3cm of mainly py - plus gtz + mo. similar to above but the pinkish tingo in the rock is docreasing with silica content is increasing. 100 150 132 black alteration clots common -/33-Oty-py on @ 10,8 mm wike long of sether side

66	DLE NO.: PLLAR ELEV PORDMATES: ICLINATION:	0-	1- 29- 74	80 30. 3	4,	PROJECT: Hal Juff PAGE NO.: / M. GROUND ELEV.: 2930 M. DATE STARTED: August 7/80 N. /243/ E. DATE FINISHED: " 28/80 BEARING: 8/2° TOTAL DEPTH: 701.3M. LOGGED BY:	100 100	RHER: 2	7 53n Bllo	_	000	, <u>.</u> 90	
SECTION	ALTERAT		URING	ERAL	LOGY	comments: At -py vein to trace mo (ser-py-gtz envelopes) AVE CORE acts a gtz-py-ser in (no envelopes). AVE CORE REC'Y/HOLE	3	LING	RVAL ORE	RE	APLE RVAL	EC'Y.	ESTI- MATED
	7/75	Sla	FRACT	Z	GE0	DESCRIPTIVE GEOLOGY	2	DA	RECOVE	ပိုင်	SAN	% RI SAMF	
-/35 -/36 -/37	west along was	weak	week	pylur		Fracture @ 35°, minor py Otz mon zonite homogeneous & equigranular, pale pink ruhite w black diotite, occasional larger M Otz m @ 65°, little ser @ edges of otz & plag. biot, he 5°6, which has been slightly		7.		NO	135		
-138 - -139 - -140 -	nod almotutus	12 fels / Lucuk	week	AN MA		Chloritized, not one in matic patchs chloritized, not one in matic patchs chloritized, not one in matic patchs Oty-py on @20,5 mm wide w py come mainly in sty was but does because occur as time disseminations replacing sintite.		77		\	/38 14/		
-142 -143 -144	nod aling fac.	12 feb Twent	weak	by may my		Off-py on @40° w 2 fine Vein types from 139-143 m; most common is ribbons of Mo, 3 cm thick, lim 9tz-py-ser ons -21 ser envelopes.	3.7	1.]44		
-145 -146 -147	ed, along ins	weak	moderate	IN low ho	×	Of -py on @40° w 2 fine Vein types from 139-143 m; most common is ser envelopes. Of, py on w rinor no @15 (lon finally gtz one some times to k-feldspar-1 wide w 5 mm gtz-ser-py envelopes acits, a gtz py-ser on @30° (lon vide w ho movelages)		trave			147		,
-148 -149 -150	ing traduces	Hace	weat	py /m/m/ ho		Barren 9/2 m @45, 2mm wide	120	trase			150		

PAGE NO.: // OF 47

MEF. TO CLAIM CORNER: 53, @ 008° PROJECT: Hatsy it HOLE NO.: 12431 LOGGED BY: COMMENTS: No in 97-Py veins. One on w bery! AVE CORE REC'Y / HOLE ALTERATION ESTI-MATED SECTION **GEOLOGY** DESCRIPTIVE -15T Otz-py on w Mo @75, 3mm wide. Otz Penzonite 152 Fracture @ 45; roducate coating -153 -154 -156 My on C 25°, 7mm wide to PY + Bery in the 9th is long stender, mu, kery = 6 an wide to 9th - ser hexagonal XL's = agreement in colour.
Py envelopes 15% Aty-py in to no @ 25° 2mm of py (mo) + gty-py-ser ins still will to 7mm of y-py-ser ins still Barren gty on 6 65° 5mm wide. barren gty on. 158. 926 -/60 1 50.8 161 162 1.2 Rock throughout this section has a high sericite content due to the # of por ins some of which are quite large. 100 163 164 100

MOR NO.: /2 0147 MEP. TO CLAIM CORNER: 534 @ 008° MOUND ELEV.: 2930 pm BEARING: 0/20 LOGGED BY: TOTAL DEPTH: INCLINATION: ESTI-AVE CORE ALTERATION COMMENTS: REC'Y / HOLE MATED SAMPLE MINERAL GEOLOGY SECTION DESCRIPTIVE GEOLOGY -/6: Practures @50-65, dem Qty-py on to no @15, 3cm wide Etz Menzonite 166 Fracture @35° along a 2mm -/68 offer, minor Py 100 174 17/7 175 Contact quite sharp @ 650 102 om gtz-pf on w trave no B 20, weak envelopes. 175.4-177.05: 3 one consists of milkly white plag (possibly 9/3) 80%, 2/82 white 9/2 + minor pyr ser. I trave no Momos enems fire to M.g., pale green in colour, no matics. 100 -177 177.7 Oty on @ 35°, w px + mo. 10m Owide, 10+ on gtz-py-set. enveloper Book appears to be in a transition your between 9/3 monzonite + quartz porphyry. Fracture @35, clean.

COL	LE NO.: LAR EI ORDINAT	LEV,: Es:	, 0. 2.				PROJECT: Hatsorf REPROJECT: Hatsorf DATE STARTED: August 7/6 DATE FINISHED: August 26/ BEARING: 6/2° TOTAL DEPTH: 70/.3m	PAGE NO.: /3 OF 4'7 O REF. TO CLAIM CORNER: 53M @ 008° /80 BCALE: ///00 LOGGED BY: John Pollock
1	ALTER	RATH		URING	NERAL		Sty-py was we no dropping oft.	HIDES AND THE CORE CORE CORE CORE CORE CORE CORE COR
SECTION	57.70	Ci	11/0	FRACT	Z	OE C	DESCRIPTIVE GEOLOGY	SULP ORIII SAM SAM SAM
-180 -181	> 1/2		c,			7	p + pavry +	9/2 monzonite -9/3 1821 94.7
- 182 -183	Deal alac	2	I very weak	Seak	10110		1/3-DV IN @ 30, 4MM WILL W UTS + 8-102 blotile	equigranular, 10-152 12070 K-feldspar 1's not easily K-feldspar occurs bic + rect. 12's
-/84 - -/85 - -/86 -	7 49.11		nery wat	week mod	11/10	1	Oty-py va @ 35,0/mm with ser analyses	bic + rect. 123
- /87 - - /38 - - /89 -	7 -47	J'AR	very weak	wesk	Du, mt		Otz-py m w mo @ 50° 5mm wide w. a langty-ser-py envelope	188-4 1875 100 169
-/90 -/9/		year.	very week	weak	pynt		w a low gtz-ser-py envelope Then a 5pm potassic envelope Otz-py-ser uns so	4;11 the major va type. 190.5
-197 -193 -194	wak	* Fak		mod to hish	1	3	lity-py-ser on @ 40, 5mm wide 193.4-198.6: rock is some green highly fractured, fractures & 25-30° dark green specks possible fault, downside moved you of biotite, it is magnetite, but it is magnetite, but it is	a spears to be silicified in to white we wanted are the remains of 193.7 and 193.7 and primary or secondary.

PAGE NO.: 14 OF 47 HOLE NO.: # -/-80
COLLAR ELEV.: 2930.4m REF. TO CLAIM CORNER: 534 @ 0000 MOUND ELEV.: 2930/m ECALE: 1:100 Pollock n. /243/ DEARING: 0/20 70%.3m TOTAL DEPTH: INCLINATION: ESTI-AVE CORE ALTERATION COMMENTS: REC'Y / HOLE MATED MINERAL GEOLOGY SECTION GEOLOGY DESCRIPTIVE - Otz un @ 15°, 15 mm with w #3 Clay + green slippury surfaces. Fractures the diffuse py-ser envelopes commonly @ 40° x = 10° Otz-py une 50° to minor mo
6 mm wide to faint 97 - py-ser
envelopes 25 Otz monzonite to 2/5-20% K-feldyar m.g., homogeneous, tresh, equigranular, matics 8-10% (mostly biotite) ptz 16-15-%, rest majnly plag. 200 1201 ·_3)/ 70/2 Fracture @ 20; Minorpy mo, 9 man wide to potassic 100 -202 alteration envelopes. 12028 -203 204 -204 100 -205 Oty-py on e 45; 8mm wide to Rock contains 15-20% enhedred K-fellspar of langty-py-ser envelopes.

Crystals any 1×2 mm.

Rounded patchs of high matic minutes

Rounded patchs of high matic minutes

are still occurring? -206 207 100 -207 -208 N+208.3 -209 150 2/0

DATE STARTED: August 7/80
DATE FINISHED: " 28/80 LOGGED BY: 7mm Pollock 701.3m TOTAL DEPTH: ALTERATION COMMENTS: AVE CORE REC'Y / HOLE MINERAL MATED SECTION DESCRIPTIVE GEOLOGY 210 Att borbyld -2/1 rare K-fallspar phonocrysts 105-py m @ 25, 3mm wide wo biotike is very weakly chloritized -212 Otz-py in to good Mo. 2cm wide to Min. 3 cm gtz-py-ser envelopes 213 96.7 Otz-py un @ 30° /mm wide, weak </ % matics, = 10% ofz, plag \$ - 3/3 envelopes. -244 -2/5 M M-2/79 2/6 Otz-py in @ 350 to mo (mostly concr on fractures on either side to 5mm gtz-py-ser envelopes -217 7-2179 -718 -219 219 Fractures @ 60°+20; minorpy -_'20 -22/ -321 222 10-152 k-feldspar, partial replacement of biotike by py. -733 Oty in @ 20°, 5 am wide w py. 225

CO	CLIM	NATES ATION	/.: :	211	9.7		PROJECT: //KYSOFF M. MOUND ELEV.: 2930M DATE STARTED: August 7/8 M. /243/ E. DATE FINISHED: 41 26 BEARING: 0/2° TOTAL DEPTH: 70/.3M	PAGE NO.: 16 OF 47 O HEF. TO CLAIM COMMER: 53M @ 005° SCALE: 1,100 LOBGED BY: 7mm Block
SECTION	S://:c	Serieik A	TIO	がアを	F KACI UKING	MINERAL	COMMENTS: DESCRIPTIVE GEOLOGY	SAMPLE SA
-225 -226 -227		weak	400	\ \ \ \ \	N Cak	1111	atz-py-ser m @40°, 3nm wide Quertz Monzon it n.g., homogenese =10-152 K-fellene	"".
-228-		-	3			W. W.	-102 grz, rest	chloritized) frace mt 2224 NO 228 mainly plas.
-230		- -		Jane 1	200	2/2	Oth-py m E15° to trace mg Zom wide	2324 23/
232- 233- 234-	- +-			2 - 1700.	2000	5/ w//w 3/	Fault @ 22; lower side moved up?	233.0
235				weak	1	200		5-10% Max, pt3=20% 1. 284.
237 238	-		7	weak	D. A. T.		tick on fractured Off-py un @35, 4mm wide w time dissen ma Fractures @ 20° 430, minor py+	3 100 232
239 240		3 8 8	3	33	3		ser very little k-feldspertextweed grz monz	on the 231/100 240

HOLE N COLLAR COORDIN INCLINA	ELE	:v,: s:] []	79.	30 93	.4	H. /243/ E. DATE FINISHED: August 28/80 BEARING: 0/2° TOTAL DEPTH: 70/3	PAGE NO.: / REF. TO CLA SCALE: /, , LOGGED BY	10	CORI	ER:	53,		00	~~ ~~	
SECTION TIME	ERA Y/3	ATIC	ite ž	URING	ERAL	LOGY	comments: Oty in w sph + garnet? cuts a 9ty-py in w silvery mineral.	AVE CORE REC'Y / HOLE		HIDES	LING	% CORE	RE 2E	APLE RVAL	EC'Y.	ESTI MATE
240 SEC	3	2/2	2/2	FRACI	Z	GEC	DESCRIPTIVE GEOLOGY		ì	A PSULP	DRIL	% ECO.		SAI INTE	% R SAME	
24/-	weak		weak	week	Janut.	600	Fracture of slickenslides, lower side moved up. Self+ pepper textured 52 feldager, 5-82 bio, trace in sert plag., 5-12 py, sec., in.g., homogeneous	or hess K- nt, 152 ptg. nt, -12 ns, rare large	3	7.	2921	100	NA			
44.	4		weck-nod.	weak	Phonomy	//	Pty-py m @25, 3.4cm with to mo @ contacts. Oty-py on to strong my family Oty-py on to strong my family		7	4.	3457	100		243		
17-			weak	mod.	i Im, on ye	X	Pts-py un @ 10° (no mo) cuts a prs-py un @ 26° w mo, both uns Imm.			Fac	21K	100		246		
50.			very weak !	weak - mod.	Py, mo, art	/ /	Fracture @ 25, minor py +ser similar to above Oto-py on @ 35, 3 nm wide w strong no along contacts.			, 1	-24	100		249		
52-53-	- =		_	8	13, mg stt. st. nt!		Otz in 3mm w sphrgarnet out a gtz-py m w silvery mineral Faultzone on fracture		4	, ,	294	16.7		252		
255				3	1/3				\perp			96.8	1	258		

HOLE NO .: / -/-80 PROJECT: Hayson & PAGE NO .: 18 OF DATE STARTED: August 7/80 COLLAR ELEV.: 2930. 4m GROUND ELEV.: 2930m REF. TO CLAIM CORNER: 53m @ 008° DATE FINISHED: August 28/80 LOGGED BY: Tom Pollock BEARING: 0/2.0 -60° INCLINATION: TOTAL DEPTH: comments: Pt3-py vn cuts a pt3-ser-py m ALTERATION REC'Y / HOLE SECTION DESCRIPTIVE **GEOLOGY** -255 sivery mineral. 9tz Monzonite 256 96.8 -257 Ots-py vy, Yan to one 5 nn silver as Mayaite -258 -259. 25° sharp Ary Porphyry -260. phy py in 5mm cuts a 9th-sirphy on 2mm

- phy in 220; 6cm wide in py, mo, beryl,

Fractures @15+45; nod pyrsis.

Sericite + k-feldspor, 3cm pty-eur-py

anvelopes + /cm potassic alt. envelopes 261 -26/ 262 -263 Ats-py un @ 55°, 6 mm wide, trace 264 269 265 100 Pty-py in 2mm with no envelopes Qty Parphyry -266 25% K-felds per , 1-2% bio, 20-25% 9/3 (10% phenos) , rest mainly plag. 267 -267 Contact gradational 268 M.g., high matic clots still present. 100 -269 pts py in to minor no 4mm Fracture @ 40° minor chimpy

HOLE NO.: PROJECT: Harsoff PAGE NO.: / 9 OF 47 53m @ 008 2930.4 m COLLAR ELEV,: MOUND ELEV .: 2930m DATE STARTED: August 7/80 1/793 1243/ E August 28/80 SCALE: /1/00 BEARING: 0120 INCLINATION 70%.3m LOGGED BY: Im Bllock TOTAL DEPTH: ALTERATION COMMENTS: AVE CORE ESTI-REC'Y / HOLE MATED DESCRIPTIVE GEOLOGY -270 Quartz mongmite, salt + papper textured, 271 Ot-py-se wilts, 3mm or less 7-10% matics, trace mt, homogeneous, 100 K-feldspar < 5%, 9/3 202, plag. 60-702 . \$
runor py vser 272 273 Fracture @ 25; ninor py+ ser 274-16 -275. Occasional of phonocryst. 276.87-276.9/n. Aplite diku -276-276 Aplitedyke, f.s., pink-grey, 10-152 9th < 102 natics, 25 of felder play. NE Ptg-srpy un, 3mm To no -277 100 dissay me mainly one" @ typt bottom of 278 Contact 5° Otz monzanite -279 271 913-Fald-Bio Porphyry Oyke. Otym, Ich to K-feldsper down cuter plus py. -280-100 281. Of Monganite that commonly has -282 282 (Otz-py-servas common, 3ma) phy phenocrysts.
) or less (16/m) occasional -2834 stockwork, some have pot. -284

0-1-80 PAGE NO.: 20 OF 47 PROJECT: Harsoff DATE STARTED: August 7/80
DATE FINISHED: August 28/80 REF. TO CLAIM CORNER: 53M @ 0080 COLLAR ELEV .: 2930. 4m GROUND ELEV .: 2930m COORDINATES 12431 LOSSED DY: Tom Pollak BEARING: 0/20 TOTAL DEPTH: INCLINATION AVE CORE ESTI-ALTERATION COMMENTS: REC'Y / HOLE DRILLING
INTERVAL
% CORE
RECOVERED MATED MINERAL DESCRIPTIVE GEOLOGY -265 Otz-py ms (largest 5 mm) aug 40 Otz Monzmite 913-ser-py envelopes. 286 12.9 287 Fracture @ 45, niner py+ ser 287.6 288 288 Oty-ser-py in @ 50, 6 mm wide is minor potassic alt.

Contact @ \$00 289 100 Ot - feldspar porphyry dyla dark green, siliams, ets phenes 10%, feldspar xc's to 6 x1.5 m -290 2108 29/ -291 4 292. Weak stockwork of pty-ser-py locally over 2 10m there are spots with units. 100 -293 -2128 rare feldspar phenos 1.5 cm 294 294 of -py m @ 10° 2 mm wide w of 77 Py Of - feldspar porphyry -295 100 -216 -2169 297 -297 -298-96 -211 Pty-py in @ 150 3.2 cm wide w fine no inbands 1211 300

2-1-80 HOLE NO.: 53n @ 0080 COLLAR ELEV.: 2930.4 MOUND ELEV.: 2930 AL REF. TO CLAIM CORNER: /243/ E COORDINATES: LOGGED BY: Tom Pollock BEARING: 0/2 = INCLINATION: TOTAL DEPTH: ALTERATION COMMENTS: AVE CORE REC'Y / HOLE FRACTURING MATED GEOLOGY SECTION DESCRIPTIVE GEOLOGY 300 Otz Mongaite salt r pepper texture, max 82 K-fallyne Frecture @ 50°, minor py
Aty -py un @ 10°, 3mm to trace
silvery mineral, 6mm py - surry
anualopes. 301 100 302 - 303 303 304 16.6 Fracture @ 50° runorpy. 305 347 . 306 306 Dyke -like structure that looks divile the in composition. 307 9th Monzonite 100 -308 Qty-py m @35, 2ma vide w km 341 -309 301 Irregular of sur-py us, 3mm wide, on un cut by barrong tym 100 -310 3012 Pts -rangite - very weakly perphyritic from ? -3// 96.7 -312 3/2 303 Qts - Feldspar Porphyry dyka . 3/3 100 - 314 Objern @ 20, 2 cm wide wift, 315

Hatsoft HOLE NO .: ,, D-/-80 PAGE NO.: 22 OF 47 August 7/80 CROUND ELEV.: 2930m REP. TO CLAIM CORNER: 534 @ 008 2930.4m COLLAR ELEV,: DATE STARTED: August 28/80 m. /243/ SCALE: /6/00 DATE FINISHED: COORDINATES: LOGGED BY: Jon Pollock 70/.3m 0/20 BEARING: TOTAL DEPTH: INCLINATION: AVE CORE ESTI-ALTERATION COMMENTS: REC'Y / HOLE MATED MINERAL GEOLOGY SAMPLE INTERVAL % REC'Y. SECTION DESCRIPTIVE **GEOLOGY** -315 Qualty - Feldspar porphyry dyke unt. 3/5,3 Otz-py in @25, 3mm wide slightly higher ser around in than in tratix - 7/E 100 .37 Oty-py m @ 35 / non wide minor no Contact sharp @ 500 318 3/8 Quartz Monzonite 318.4 - 3/9 Vein@320.lm: @50°, 5cm wide to gtz, Alwrite calcite, py, sph, silvery mineral, 8cm -320 100 Fractures @ 7+50, minor py on both - low angle thing angle fractures. gty-ser-py envelopes. 321 -32/4 -322 my Fractive to small movement & 20°, calcite rich on plane 323.15-324./m: Atz porphyry-matrix looks like an altered gtz monzonite

Atz monzonite very weakly porphyritic -323-100 324 H324 3246 -325 -326 Fracture @ 45°, minor py 100 327 -27 vein types 327-330m 9tz-py-6 9tz-su-py-18. Minor my 5 mm pt - ser-py envelopes. 327 -1-17 100

HOLE NO .: MAR NO.: 23 OF 47 2430.4m MOUND ELEV.: 2930 mg REF. TO CLAIM CORNER: 534 @ 008° COLLAR ELEV,: N 12431 LOGGED DY: Tom Pollock BEARING: 0/20 TOTAL DEPTH: ALTERATION COMMENTS: AVE CORE ESTI-REC'Y / HOLE FRACTURING DRILLING
INTERVAL
% CORE
RECOVERED MINERAL MATED SAMPLE INTERVAL SECTION DESCRIPTIVE **GEOLOGY** Mour calcite, mm of ser-py weakly porphyritic, Quarty Mongonite: M.g. - toj., Fracture along a /mm of py m, m, nor no month on plane. 338 K Minor stock work of ot, -py ms w more me, minor ollewhy of rock <u>- 616</u> 100 **-****%. 1336 38.8 max 10% ytz phenos, rounded ang 3-4
mm across, time of ser py units most
common in type. Small (=/mm) gtg-sw-py un/ts 100 339 339.8 Potassic alteration evelopes. 100 342 Calcite on @ 50, lotum wide w py o trace Mc, lim ser- 9te envelope

6-1-80 PAGE NO .: 24 OF 47 MOUND ELEV .: 2930m REF. TO CLAIM CORNER: 534 @ 008 August 28/80 70/.3m INCLINATION TOTAL DEPTH: LOGGED BY: ALTERATION COMMENTS: AVE CORE ESTI-REC'Y / HOLE SECTION MATED DRILLING INTERVAL % CORE RECOVERE DESCRIPTIVE GEOLOGY 345 Fracture @ 45° minor py. Partz Monzonik 346 M.g., Isalt + popper textured, fresh, weakly porphyritic, 2-3 % ptz phenos, very weak replacement of biotike by albrite + pyrite. 347 1935 14 3481 45-PY in @ 20° lan wide to -348 -349 Contact @ 40° -350 Adite (possibly alaskite) dyke. Contact @ 300 -351 10 351 -352 -353 -354 Otz monzonite, locally weakly porphyritic. 354 100 -355 355.1 Ptz-py vn, /mm @ 35: -356 -357 Fracture @ 30; along a gty-ser 357 100 -358 358/ Weak got porphyry. -359

HOLE NO.: PAGE NO .: 25 . 47 . DATE STARTED: August 7/80
DATE FINISHED: August 28/80 2930 4m mound ELEV .: 2930m COLLAR ELEV.: REF. TO CLAIM CORNER: 5 3m @ 0080 · 1243/ LOGOED DY: Tom Pollock BEARING: 0/20 TOTAL DEPTH: ALTERATION COMMENTS: ESTI-REC'Y / HOLE MATED SECTION DESCRIPTIVE **GEOLOGY** 260 Crosscutting 913-py + 9t3-sar Oty mongonite
py with session profice content highly variables 36/ 362 100 Fracture @ 60% minor py+ ser. 363-363 363 Contact @ 60° -364. Quartz porphyry dyku. creany 119ht grey, fresh, 10-152 rounded 364.4 -365 Pt phenos, Comp: 9tz 15 %, matics Ots-py on @ 20, 2mm which frace 3-52, K-feldsper 5-35%, py /2 may, -366 366 100 rest mainly play, often fuldspers -367 have a welded together silivenes look 15 cm is 4 mm gtz-ser py envelopes -368 369 369 100 Ptz-py un@ 23°, 6mm wick w mo, 5 mm enve/opes. -370-3703 -37/ -372 935 372 rock through this section is more granular looking, feldspars are easier to pick out. -373 Otz m @10, 2.5 cm wide w minor sph, py + no, weak an relopes. -374

HOLE NO: 9-1-80
COLLAR ELEV.: 2930, 4m PAGE NO.: 26 OF 47 DATE STARTED: August 780 MOUND ELEV.: 2930~ REF. TO CLAIM CORNER: 53m @ 0080 1243/ e. BATE FINISHED: Ancus 7 28/80 LOGGED DY: Tom Pollock BEARING: TOTAL DEPTH: ALTERATION COMMENTS: AVE CORE REC'Y / HOLE MATED MINERAL SECTION DESCRIPTIVE GEOLOGY Fracture @60°, minor py + ser Quarty Porphyry continues 376 Small gtz-sur-py un w minor sph. 377 Fractures @ 35; minor movement. 379 2 375 180-Fracture possible faultzone 8 150 380.1-380.8 -rock has a high sericite content, no matics, trace k-feldspar, 38/ 381 10 382 white in colour w . 12 dissem. 100. Ptz-pp m @ 10, 4mm wide to 1cm ptj-py-sor envelopes. 383 184 96.7 384 bottom part of dyke is dark green siliceous looking, with=20% sericite, 20py + 3% no. 355 ?86 Fracture @ 50°, minor py. Quarty Monzonite: m.g., enhedral feldspars, 2/08 K-feldspar, Salt + pepper textured. 387-387 6/3-py in @15, 3mm wide Is trace mo. 188-346 189 100 380

PAGE NO .: 27 OF 47 : 10-1-80 REF. TO CLAIM CORMER: 534 @ 0000 GROUND ELEV.: 2990m LOGGED BY: 7om Pollock TOTAL DEPTH: INCLINATION: ESTI-ALTERATION COMMENTS: REC'Y / HOLE MATED SECTION DESCRIPTIVE GEOLOGY +390 -390 trace me, 1.5 cm grz-sx-py envelopes of Manzon ite -391 -392 Oty-py on wser +tracemo, 2mm 393 -393. 100 -394-Fracture @ 35, minor py. | Aunity Maymite: good salt + papper 1 3 3143 Fracture @ 35, minor py. | texture, 102 biotite, trace mt, 9tz 15% -395 396 Fine of -ser-py units, 3mm -316-98.7 still getting rounded to irregular high -397 -398 399 Otz-sur-py in to minor mo, 2mm wide to 1.5 am 1/3-sur-joy env. -399 100 400 Oty Monzonite: moderately porphyritic from 9tz phenos, in these spots biotite is slightly more chloritized than usual. . 400.1 -401 402 -402-90.3 - 403--409

40-1-80 HOLE NO .: REF. TO CLAIM CORNER: 53M & OOF TOTAL DEPTH: COMMENTS: Barren gtz in cuts a gtj-py in. Atj-py in cuts a gtj-ser-py in. ALTERATION ESTI-REC'Y / HOLE MATED DESCRIPTIVE **GEOLOGY** 977-py on 2nm wide to 5mm gry-ser-py envelopes. Quartz Mongmite (to Qtz Arphyry). 406 salt + papper textuse, quarty phanos common. 407 colour variations Hextures numerous due to -408the large number of ons. 100 409 Atz-py in 1.4m wide @ 20; Mor no + wos 410 Quartz Monzonite to Quartz Porphyry 411 4/2 Fracture @ 35°, moderate py +ser. -413 -4130 917-py in to trace mo, bun wide 414 414 415 Vein like structure of potassic afteration 7mm wide. 416 417 417 418 Doses its sold r pepper texture 419

5-1-80 Harsoff PAGE NO .: 29 01 47 COLLAR ELEV .: 2930.4 m DATE STARTED: August 7/80
DATE FINISHED: " 28/10 MOUND ELEV.: 2930m REF. TO CLAIM CORNER: 53M @ 008 0/20 INCLINATION: LOGGED BY: Tom Pollock 701.3m ALTERATION COMMENTS: REC'Y / HOLE MATED DESCRIPTIVE **GEOLOGY** 420 Otz-py in @20° to irregular offshow 20-25-8 K-feld spar, 45-2 planes mo in iris plas the gry-ser-py mothed pink - pale are envelopes. 421 100 no thed pink - pale green in adour tresh. 422 423 423 Minor ch/ of bio 424 100 425 Pty u e 35, w py+ sph, 2mm wide **12**22 426 426 rock has a granular look to it from the Imm pink twhite K-feldspar 427 5% subrounded of phenos (any 3-4 mm) 10 2 428 biotite is 22 tis partially replandby py. och, rock also has =/2 dissm sericik Oty m w sphr mind py, nor situry mineral - auts a gtz m with minor ser. 429 8.7 430 Fracture w stickenslides (2mm wide) . 43/ 143 432 432 Pty try on @10° 3mm wide to U.F. dissen. no, 3mm gty-eur-pyeak Feldspar content varies from = 10% - 40% K- fuldspar. 100 - 433 -434. Qty-pyvn @ 30, 4mm wide w sph. 4313

HOLE NO : 40-1-80 Hatsoff PAGE NO .: 30 OF 47 DATE STARTED: August 7/80 2930.4m MOUND ELEV .: 2930 COLLAR ELEV,: DATE FINISHED: August 28/80 n. 1243/ 70m Pollak LOGGED BY: INCLINATION: AVE CORE ESTI-ALTERATION **COMMENTS:** REC'Y / HOLE MATED SECTION GEOLOGY DESCRIPTIVE 435 Quartz Porphyry K-foldspor has increased greatly. Gry-pym 220; //cm wide J Smm gry-su-py envelopes, traumo. 436. 100) Ptz-202, =52 in 1 to phones, biotite 3%, 12 437. 70-75% feldspor (K-teldspor varies from Fractures @35; hielday +@ 438 -438 of plag. 431 Crosscutting of py ms one 8 45 has little py but minor me. 440 774 44/ 44/ Rock has a gravelly look to it. max 152 k-fulds par., grz =25%, 10% 442 100 Fracture @ 10° 3mm wide along p 15-20-py m. in 9th phonos. rock is a mottled colour from pink + 443 48 white feldspars. 444 -444 Barren of m 850; 3 mm wide no envelopes -445 10 vesk 446 47 447 447 Oty-sar-py on @ 25; 3mm wide. Oty porphyry (Oty mongonite composition) -448 100 Barren 9/2 in @ 35° 2.1cm wido w. 5 cm otj-su-by envelopes -449

HOLE NO.: COLLAR ELEY, COORDINATES: INCLINATION:	7-80 2930.4 1/793 -60°	PROJECT: Matsoff M. CHOUND ELEV.: 2930 M. DATE STARTED: August 7/80 N. /243/ E. DATE FINISHED: 11 28/80 DEARING: 012° TOTAL DEPTH: 701.3M	PAGE NO.: 3/ OF 47 REF. TO CLAIM CORMER: SCALE: ///OD LOGGED BY: 7	53m @ 008°
SECTION SECTION CAN	FRACTURING MINERAL GEOLOGY	DESCRIPTIVE GEOLOGY	ASUL PHIDES ASULLING	% CORE SORE SAMPLE INTERVAL % REC'Y SAMP INT METERVAL % REC'Y SAMP INT
457 -457 -457 -453 -453 -453 -453 -453 -453 -453 -453	We PYI	Fracture along a 9th tay m. 2mm fresh, m.g.) mottled pink wide with mo along the break 2-3 %, 9th 20 % (5-8%) Oty-py vn e 50; 3mm wide.	white matics of polenos).	100 NQ 453
-454 -455 -456		Otz-py un @ 80,2mm wide Joh occasional salmon pink to the porphyry.	[]	100 452
-458 -459 -460 -461	sph, calcite, PY15	Barren 9tz vn @ 50°, 2mm wide Org vn \overline py \text{sph, 6mm wide} Org vn \overline py \text{sph, 6mm wide} 2-9tz -py ms	13 1950 1970 1970	
-462	veak PY	Fracture @20; minor py At -py un @ 30; 2mm & minor ser. Large # of 9t3-py uns & section. Fracture along = ptz -py un @ 55, un is 2mm wide.	hrough this	18 462

10-1-80 HOLE NO.: PAGE NO.: 32 or 47 MOUND ELEV.: 2930~ DATE STARTED: REF. TO CLAIM CORNER: 534 @ 000 August 28/80 70m Pollock 701.3m TOTAL DEPTH: LOGGED BY: ALTERATION COMMENTS: AVE CORE ESTI-REC'Y / HOLE MATED DESCRIPTIVE GEOLOGY Quartz Porphyry to Quartz Mongmite. 466 Fracture @ 35, minor py. rock is returning to its salt + pepper terture + 12 phenos are decreasing. 913-py in from 466.4-467.4m, lan -467. 100 K-feldspar 25% to I'm of - surpy envelopes, good frace fl'in hairlin mlt, biotite up to 468 **%**8 5% +mt starting to reappear 461 eak 1/00 -470 Grantz Monzanite Shairline pts-py uns w 3-1/9tz -1-471 47/ occasional ptz pheno or large feldspar & -472 473 474 474 -475 minor no . 5cm gtz = Py envelopes. 100 good no disson in oty-su-py from 475.85-476.07m. -476 -477. 478 Otz-py in @ 30, 2 mm wike. Fault @ 35, 1.2 cm of ground up biotite weakly altered to py + chl. 100 47

HOLE NO .: 0-1-80 MAR NO .: 33 or 47. DATE STARTED: PROSEST 7/80 2930. YAL MOUND ELEV .: 2930m COLLAR ELEV.: REF. TO CLAIM CORNER: 53M @ DO8" Anoust 28/80 BEARING: DIZ. LOSSES SY: Jon Polled 74.3m TOTAL DEPTH: ALTERATION COMMENTS: AVE CORE ESTI-REC'Y / HOLE MATED SECTION DESCRIPTIVE GEOLOGY 480 At , -py m @ 20; 5 mm wide + cuts Quart Monzanite generally salto pepper texture d 481 however locall variations such as 100 1) porphyritic (pt, phenos). 2) zones higher in maties (15-202) some of which are obloritized 482 483 MKI 3) zones low in matics + 10% 10% (K-feldspar giving the tock a pinkish as 484 100 485 93-py m e 55; 5000 mo, 2.5 mm tinge. 486 486 487 3 Fine sty-ser-py with, 3 monders 100 488-Barren sty in e 50°, Yma wich, Good salt + pepper testured 9 ty mongrish 481-48/2 -490. Exprise of - py + pty-ser-pop units Vein types 489-492 m: Fractures @ 30 +35 10 -491 25-17-surpy (many hairline milts 2-17-17 -492 412 493 Two of ms @45; it swicite, From wide, much off-ser apy 150 494 around ins.

40-1-80 Harots HOLE NO.: 2930.4m COLLAR ELEV .: MOUND ELEV.: 2130m CLAIM CORNER: 53M @ 0080 DATE FINISHED: August 28/80 COORDINATES: SCALE: LOGGED BY: 7om Pollock INCLINATION: 012. TOTAL DEPTH: ALTERATION COMMENTS: AVE CORE ESTI-REC'Y / HOLE MATED INERAL SECTION DESCRIPTIVE GEOLOGY 495 Quarty Mongonite weak chloritization of biotite 7953 Phon envelopes destr مرسه س 496 497 10 Fracture to good slickenslides, bottom moved up. 179 498 498 Otym 5 py + silvery mineral cats a ptz in w potossic alt. 477.3 499 Pant zone @20; /cm wide = 9th rare feldspar XC (pink) /.5 cm = ser +py +ms, s/ichons/ides much | 13-ser ppy on 1ts dominant on type.

15-ser-py along taultzone 500 100 501 50/ H Say -502 -503 100 504 507 -577.4 -505 whis, and Imm wide weak pot. all envelopes. -506 96.7 97 507 Similar to above. 508 . Fine ply-surpy unlts max/mm trace sph SOT 100

8-1-80 HOLE NO.: PAGE NO.: 35 OF 47 MOUND ELEV.: 2930 REF. TO CLAIM CORNER: 53M @ 008° August 7/80 7 m Pollak 701.3m BEARING: TOTAL DEPTH: ALTERATION COMMENTS: ESTI-REC'Y / HOLE MATED DESCRIPTIVE GEOLOGY 570 Pty-py in @ 40°, 4mm wide 53mm Quartz Mongonite
949-str-py envelopes
Contact @ 60° Dulita / Alaskita 511 Aplite (Alaskite) dyke. 5/2-513 5/3 Quarty Mongonite occasional of pheno, rare pink feldspor 1 to 1/2 514 Barren gt m @ 40; 5 mm wide -515-/A Contacts @ 300 5/6. 516 white, v.f.g., gt, * plag dy ka. 517 } Ptz-serpy valts, max 2mm. Qualy Monzaire Vein types 5-16-579:

15-50-py ms 29 (mainly unles)

15-py ms: 2 518 96.7 5/1 519 -5717) Otz-se-py wit stockwork. 520. local stockworks common from gty-ser-py units. generally = 3mm. .. -521 -522-522 3 522.7 Fracture @ 50; minor gts +197 -523--524-20.3 Weak stockwork of pty-se-py

10-1-80 HOLE NO .: PAGE NO.: 36 OF 47 August 7/10 August 21/10 701.3m COLLAR ELEV .: 2930. 4m MOUND ELEV.: 2930 REF. TO CLAIM CORNER: 534 @ 608 1243/ 1 SCALE: /:/00 0120 TOTAL DEPTH: T. Pollock LOGGED BY: ALTERATION COMMENTS: Fault offsels us. AVE CORE ESTI-REC'Y / HOLE MATED DRILLING
INTERVAL
% CORE
RECOVERED
CORE
SIZE ECTION DESCRIPTIVE **GEOLOGY** 525 5253 90.3 Oty-py in @ 25; Im 5 4mmpt; - Quarty Mongonite: skr-py envelopes. salt Popper textured, fresh, hards 526 numerous gry-serpy mits, biotite weaky in state NO 527 100 528 -27:1 529 Week stockwork of off-ex--530-100 -53/ 531 Contacts @ 450 Vf.g., light grey dike, < 12 matics, looks to made solely of prophag. w minor dissen in ser. 332 -533 Fracture @ 10; minor gypsumopy 100 334 534 Otz-py me 20; 4mm ptz-ser-py Quartz Manzite has many otz-ser-py unlts, sometimes " or crosscutting. -535 -536 96.7 537 -537. Fracture e 50; modurate ply -538 Cemented faultzone @ 25. by calacite, offsets two pot. -539-150

0-1-30 HOLE NO .: PAGE NO.: 37 OF 47 DATE STARTED: August 7/80
DATE FINISHED: August 28/80 2930.4 m GROUND ELEV .: 2930 REF. TO CLAIM CORNER: 530 @ 0080 COLLAR ELEV .: LOGGED BY: Tom Pollock INCLINATION BEARING: TOTAL DEPTH: ALTERATION COMMENTS: AVE CORE ESTI-REC'Y / HOLE MATED SECTION DESCRIPTIVE GEOLOGY basil texture but the took has many 541 -541 gree Possible tault you @ 5°. colour variations due to a large # of vns that locally cause chloritization of blother to the the themselves play 16; green & soft giving 967 NQ 543 the rock a green tinge. -544 -545 B Qtz-ser-py vas, /cm wide 546 546 Contact @ 300 Dike-like structure w a basic 977 monganite comp. but w = 2020 matics a 597. - 547-Weak stockwork of gits-py milts -548 -549 I Stockwork of off-ser-py milts wassociated green alteration -550 Contact @ 55 95-py m e15, 20muid = fl. Quartz Mongonite 551 -55z 100 550 K-feldspor has become present again giving the rock a pink tinge & feldspor 5-10%, m.g., fresh, grapossible foult zone @25°/cm.

Zone of chushed rock + day. -553 -554 966 .555

HOLE NO.: COLLAR ELEV,: COORDMATES: INCLINATION:	0-1-80 : 2930.4 !1793 -60°	4m GROUND ELEV.: 7 CZA	PROJECT: Hatsoff DATE STARTED: August 7/80 DATE FINISHED: August 26/80 TOTAL DEPTH: 701.3M	PAGE NO.: 30 REF. TO CLAIM SCALE: //	CORNER:	53me Pollock		
SECTION Sericite	Alarite 2 RACTURING MINERAL GEOLOGY	COMMENTS:	SCRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	SULPHIDES DRILLING	% CORE CORE SIZE	SAMPLE INTERVAL % REC'Y. SAMP INT	ESTI- MATED
-555	weak weak F	Otz-py in @ 30; 8mm w cal,	Quartz Monzite generally salt + pepper text K-feldspar giving the rock n tinge.	we, 5-10% a pJe piak	359	十	5\$5	
-559-	1 C W	Or-py me10; Imm is mo, syps	tinge.		ST ST	96.7	558	
-560	├ <i>-</i> ┼ -┤ -	Ptz-py on @ 60; arg 2m = fl mo Fracture @ 50; mod gtz +p)	/		3.	93.8	561	
- 582 - 583 - 584	48116				3 2 4	100	58Y	
-565	kd	Fracture @10; clean.	the # of ms has dropped this section giving the rock homogeneous appearance.	through a more	y = 2	(00)	0.2	
-567	duate	Plyme 20; SAM I Sph.	Oty Mong. to Quarty Mongoni large feldspar KL's Comma vo vale pink to white any 1.2	te Porphyry from 2 m.	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		S67	
-570	, §]	Fracture @ 55°, mod py.	/				570	

10-1-80 HOLE NO.: MAR NO.: 35 or 47 MOUND ELEV.: 2930m CORRERES 53m @ OOK" 2930.4 M COLLAR ELEV.: 12431 COORDINATES: LOSSES ST: Tom Pollrak BEARING: 0/2" 701.3m INCLINATION: TOTAL DEPTH: ALTERATION COMMENTS: AVE CORE ESTI-REC'Y / HOLE MATED DESCRIPTIVE **GEOLOGY** -570 Quart Mongmite weakly perphyritic from large foldspar KL's, mg.-cg., salt papper top tored. Or, me 45, 1.3 maid sprosph SH 532 Ply un @25, 7mm wich wpy + 5/ 573 -573--574 575 576 576 100 Otz-pym @ 40, /mn 5 mo. 577 578 Auart Mongonite mg. to eg., relatively homogeneous, gry-sy-py envelopes. 579 /ad 913 20-25% plag 70%, bistile 10%, 580 suicite /2 Fracture @40; minor 913 Mpy. \$-150A 581 B 4th - py + gts-ser-py unly solm 572 582 163 # of uns have dropped off slightly. Vein types 579-582: 9tg-surpy mlts -13
9tg-py-6. 583. 17 E BI 584 Week stockwork of ptg-surpry units OD) 585

10-1-80 PROJECT: Hat off HOLE NO .: PAGE NO.: 40 OF 47 DATE STARTED: August 7/60 MOUND ELEV.: 2930m COLLAR ELEV.: REF. TO CLAIM CORNER: 53m @ 008" LOGGED BY: Pom Block 701.3m BEARING: 02 20 TOTAL DEPTH: ALTERATION COMMENTS: AVE CORE ESTI-REC'Y / HOLE MATED DESCRIPTIVE **GEOLOGY** Quartz Mongonite 913-sr-pym @30,4mm wide 9tz-px m Ess, 3mm & good no large felds par XL's common.

Your off-ser-py envelopes. 586 587 #of uns has dropped considerably. 588 588 100 589 Fractures @ 50; minor py+slick-enslides. -590 591. 591 Barren gtj un 0 50; 6mm vide. 100 592 Pharty Monganite to Quarty Mongonite Brokyry -593 Otz-py m, 2mm wide wsph. 1594 594 96.7 595 287 -576 Oty-ser-py on @ 65° /mm is bleached + potassic alt. morelopes -597 597 3 Oty-ser gy ms, minor stockwork, 598-1-592.25 n: Dike like structure of 100 -598 mg gtg + play , 12 matics. 5775 599 .600

HOLE NO.: COLLAR ELEV, COORDINATES: INCLINATION:	1-1-8 2930. 11793 -60°	4pm enound elev.: 2930m DA H. 12431 E. DA	TOJECT: Maysoff ATE STARTED: August 7/80 TE FINISHED: 128/80 TAL DEPTH: 70/3m	PAGE NO.: 4 REF. TO CLAIR SCALE: /, /C LOGGED BY:	CORNER:	53m @	008*
SECTION Silie Suricife Clay	FRACTURING MINERAL GEOLOGY		CRIPTIVE GEOLOGY	AVE CORE REC'Y / HOLE	SULPHIDES DRILLING INTERVAL	% CORE RECOVERED CORE SIZE	SAMPLE NTERVAL % REC'Y SAMP INT
600 -601 -602	weak Py MX	3 PM-ser-py ms, may 3mm, minor stockwork.	Quartz Monzonite -weakly porphyritic from a feldspar XL's.	white + pink	3 602.	96.7	
-603 -604 -605	hosiya	Brany pro-py unto.	Aplite dike, pale pink, gro 190 matics, many \$13-py Otz. Mon weakly porp from feldspar XL also the	hyritic occasional	- 1 tos	/00	603
606 - 500 - 608 -	week-strong ->	Practure @ 55° along a 915-py unit. Oty-py un @ 40°, 5 nn vide w trace han, much ser. + green altered plag.	rounded of pheno.	t Mers	n 2 60r.	100	606
-609 -610 -611	2	Eracture @50°, mod. gypsumopy	alt > biotite altering to plag. turning pake green &	Marite +); N;1	/00	609
- 613	gypsum!	Basible fault @ 30, much ch	· .		• W	76.7	6n
- 614 - - 615	1000 11 12 12 12 12 12 12 12 12 12 12 12 12	Possible fault zone @5°			-648	100	615

2-1-80 HOLE NO.: PAGE NO .: 42 OF 47 DATE STARTED: August 7/80 COLLAR ELEV .: 2930. 4m MOUND ELEV .: 2930m MEF. TO CLAIM CORNER: 53m @0000 H. /243/ COORDINATES: DATE FINASHED: LOSSED BY: Ton Pollock BEARING: 0/2" 701.3m INCLINATION: TOTAL DEPTH: ALTERATION COMMENTS: AVE CORE ESTI-REC'Y / HOLE MATED MINERAL DESCRIPTIVE GEOLOGY 615 Ptj-py on @ 25, 7 mm wide at no, /cm ptj-sr-py eavelopes. Quarty Mozarite weakly perphyritic from an hadral fuldspar XL's, pale Pink phenocrysts. 616 100 Fracture @50; minor slickenslides 617 most phy. sauswittged 618 612 619 10 -620 -(203 To small 9ty-ser-py units, maxsma Buarty Monganite Porphyry increasing feldsparks, generally pink & any 1-1.5cm2. 621 622 623 High sericite content in the rock (22) 624 624 100 625 626.25-626.35 m; v.fg. , siliceous looking dike-like structure. Fracture w good slickensling, minor fl, bottom moved of. 626 -LX 627 627 95 m@20; 5 fl, py+feldspar -628 100 -629 Aplite dyla @35°, 3cm vide. -630

16-1-80 HOLE NO .: 2930 M COLLAR ELEV.: 2930.4m TO CLAIM CORNER: 534 @ DOF GROUND ELEY. : DATE STARTED: LOGGED BY: Tom Pollback 701.3m TOTAL DEPTH: ALTERATION COMMENTS: REC'Y / HOLE MATED SECTION DESCRIPTIVE GEOLOGY -630 Quartz Monyonite Qtj-py on w minor mo.

M.g., weakly porphyritie, 5-102 k-felder

20% , K, bibfile = 10%, weakly replaced .9

by chlorite & some py. remainder

by chlorite & some py. remainder

mainly plag, ser py = 1.5% -63/ 100 -632 NQ -6325 -633 633 -634 Aplite dila @ 30; 5cm wide -635 .636 6% **L34** rock here has a cloudy siliceons appearance, is still slightly 637 porphyritic + plag is still generally .s pale green in colour. 96.0 638 んぱく Qtz-py on @ 50, 1cm wide 639 631 -640 10 -64/ -644 -642 642 Fractures @ 30° (is slickenslides + gypsum + @ 60° is py. Otz Monzonite: M.g., 2-102 k-feldspar, weakly perphyritic from pink K-feldspar XL's. -643 96.7 .6 -644 -645

PAGE NO.: 44 OF 47 PROUND ELEV.: 2930. M REF. TO CLAIM CORNER: 53m @ 008 " /243/ LOGGED DY: 70m Pollock TOTAL DEPTH: 701.3m ALTERATION COMMENTS: AVE CORE REC'Y / HOLE MATED DRILLING INTERVAL % CORE SECTION CORI DESCRIPTIVE GEOLOGY 645 Qty-py m w no, 4nngly- 1/3-2 plag is pale green, biotite weekly ser-py envelopes. Chloritized 9tz-py on @ 50; 4mm vide to minor fle mo .646 -646. 1941 NO 647 648 648 10% matris, = 5% K-feldyar. 649 100 .6 650 9ts-py me 30; Ino + 3 one of weak potassic alteration 651 652 Fractures @ 650+ 25' 967 -653an wide. W 654-654 655 /00 .5 656. Oty Monzaite 657 657 Fracture along a sty-sur-py unit w mo. 658 96.9 Otz-py m @ 20; /cm wide 5 659

40-1-80 Harsoff PAGE NO.: 45 OF 47 MOUND ELEV .: 2930 M DATE STARTED August 7/80 2930.4m COLLAR ELEV,: REF. TO CLAIM CORNER: 534 8005" LOGGED BY: 7om Pollock BEARING: 0/20 701.3m TOTAL DEPTH: ALTERATION COMMENTS: AVE CORE REC'Y / HOLE MATED DESCRIPTIVE GEOLOGY Quarty Monzonite
f.g., peppery textured, occasional gry
phane, 102 matics, trace mt, grz 661 At - py m @15, 8 mm wide w 100 Mg 662 20-25; play 65%, fresh, hard 663 Vein types 660-665: 9tz-py: 6
9tz-sph-mo:1
9tz-sr-py: 14 664 Atz-py un 660; 2mm wide. 167 665 -666 666 -667 913-py m 040° 5 sph + ser. 100 688 41 669 Fracture @ 20°, along & 9tg-se ppm w mo. 670 150 671 672 612 Fractures @ 10+45° minor py pepper tayture, homogeneous. 673-674 675

PROJECT: Na. off PAGE NO.: 46 OF 110-1-80 HOLE NO : DATE STARTED: August 7/80
DATE FINISHED: 11 28/80 MOUND ELEV .: 2930m REF. TO CLAIM CORNER: 53m @ 0080 SCALE: 1/100 LOGGED BY: T. Pollock 701.3m TOTAL DEPTH: ALTERATION COMMENTS: AVE CORE ESTI-REC'Y / HOLE MATED SECTION DESCRIPTIVE **GEOLOGY** 675 9tz-ser-py une 15° 9mm wide Quartz Monzonitei
generally f.g., good sall - pepper
texture, homogeneous. 676 100 NP 677 678 678 -671 -680 100 Fracture @ 20; minor 68/ 681 Fire g. ots + play dyke, matics < 120, 2-3 % ser, minor py. Vein types 678-68/m: 5-913-54-py: 5-947-py:/ 181.2 682 100 683 687 684-**4843** 625 similar to above 5-10% max K-foldspar. In ak m e35°, w ser rsph outs a 686 100 687 487 487 9+3-py m @ 45; w sursph. 688 689 Qtz-14 un @50; 1.5 mm wide

PROJECT: Hatsoff HO-1-80 PAGE NO .: 47 OF 47 HOLE NO. DATE STARTED: August 7/10

DATE FINISHED: August 21/80 COLLAR ELEV .: 2930. 4m GROUND ELEV .: 2930 M REF. TO CLAIM CORNER: 53m 2008 n /243/ SCALE: /./00 COORDINATES: LOGGED BY: 7m Pollock. BEARING: 0/20 701.3m TOTAL DEPTH: INCLINATION AVE CORE ESTI-ALTERATION COMMENTS: REC'Y / HOLE MATED DRILLING
INTERVAL
% CORE
RECOVERED
CORE
SIZE SECTION DESCRIPTIVE GEOLOGY -690 69ay 96.7 Fracture @ 15% minor calcitet Quarty Mongon ite slickenslides. weak in my follows phenos + the occasional longe teldspor ! -691 -692 1001 -693 Fracture e su; mod gt + ser. 684 96.7 695-696 696 cality, en gry-ex-pyenuclops. 697 A; mo, /cm envelopes 698 100 611 699 Fracture 240°, minor sertpy. 700 944 701 End of hole 701.3 meters. 702 702

