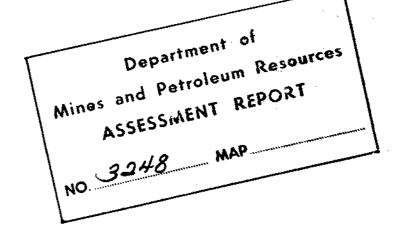
# 3248

GEOLOGICAL, GEOPHYSICAL AND GEDCHEMICAL
RECONNAISSANCE OF THE AUDREY CLAIM GROUP  $50^{0}44^{\dagger}N, 121^{0}5^{\dagger}W$   $92^{I}/11 \quad \text{EAST}$ KAMLOOPS MINING DIVISION
ASHCROFT, B. C.

ВΥ

J. W. CANT, B.Sc.

D. P. ARSCOTT, P.ENG.



May 27 to June 5, 1971

# CONTENTS.

	Page '
INTRODUCTION	1
LOCATION AND ACCESS	1
PREVIOUS WORK	1
GEOGRAPHY	2
GEOLOGY: Lithology, Alteration, Structure, Mineralization	2 & 3
GEOPHYSICS: Magnetometer Survey	3 & 4
GEOCHEMISTRY: Soil Sampling	4 & 5
CONCLUSIONS	5 & 6
CERTIFICATES	
APPENDIX:  Rock Specimen Descriptions Procedures Geochemical Sample Descriptions Geochemical Analyses Summary of Costs Expenditures: Invoices Affidavit: Labour Costs Statement of Qualifications	
<pre>ILLUSTRATIONS:  # / Figure 1: Location and Access</pre>	2 7 n Jacket] n Jacket]

\* \* \*

#### INTRODUCTION:

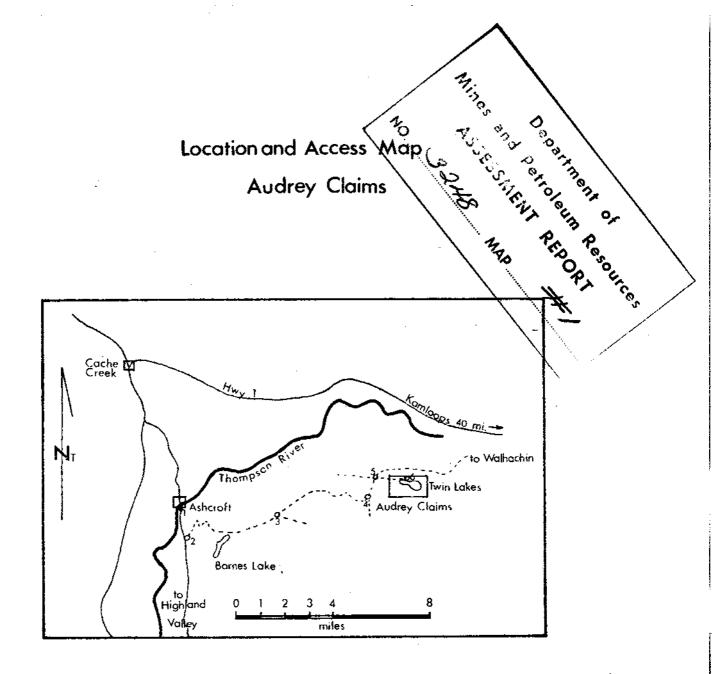
The Audrey Claim Group was staked by Mr. Ab Ablett and subsequently acquired by Thor Explorations Limited in May 1970. It is located adjacent to a reported vein of copper-magnetite mineralization and is partly underlain by intrusives of the Guichon Batholith, well known as a favourable environment for copper mineralization.

## LOCATION AND ACCESS:

The Audrey property comprises of a group of 24 claims on and around Twin Lakes [Pennie Lake] 9½ miles east of the town of Ashcroft. The best access is via the Highland Valley highway from Ashcroft [See figure 1] which is negotiable by good clearance two wheel drive vehicles except during wet weather. Alternative access is via Wallachin on the Trans-Canada highway.

#### PREVIOUS WORK:

The region has been mapped by the Geological Survey of Canada at a scale of 1" = 4 miles [S. Duffell and K.C. McTaggart 1945 - 46, McTaggart 1947: Ashcroft Map Sheet]. Apart from this no work has been done on the claims.



	MILEAGE	
(1)	0	ASHCROFT MOTEL
(2)	5.8	TURN LEFT ONTO GRAVEL ROAD TO BARNES LAKE
(3)	10.6	KEEP STRAIGHT, ROAD TO YD RANCH TO RIGHT
(4)	14.2	TURN BEFT
(5)	15.8	TURN RIGHT AT INTERSUCTION OF TWO ROADS
(6)	17.4	AUDREY WITNESS POST #17 & #18

#### **GEOGRAPHY:**

The claims are situated in the Interior Plateau, to the south of the Thompson River. They cover a shallow south-easterly trending valley with a topographic relief of approximately 600 feet. The vegetation reflects the semi-arid climate of the area, consisting mainly of open jackpine, and sparse sage. The terrain is extremely easy to traverse.

#### **GECLOGY:**

The Tertiary Kamloops group of basic to intermediate volcanics underlies much of the claims area, and is in turn underlain by the Lower Jurassic Guichon Batholith of granitic to dioritic composition. Detailed descriptions of the rock types are included in the appendix. The only alteration mineral of significance is epidote, commonly occurring in the intrusive either as fine disseminations, or as small stringers.

The most common orientation of fracturing in the intrusive averages SSE in strike, with a steep NE to vertical dip. Some epidote and some rust occurs on these fractures. The rust is light brown in colour and there is no evidence to suggest that it could have represented useful sulphides.

# GEOLOGY: [Cont'd]

A similar fracture orientation in the volcanics suggests a common origin of fracturing, post dating the deposition of the volcanics.

Two small faults located in the agglomerate have slickensides indicating an essentially strike-slip movement. These faults have a SE strike and steep SW to vertical dip.

A single occurrence of mineralization was found in the intrusive, accompanied by strong fracturing and epidote veining. It consists of an angular dark steel blue grain containing flecks of malachite and yellowish white crystals which are probably pyrite.

#### GEOPHYSICS:

The possibility of copper-associated magnetite on the property suggested the use of a magnetometer survey to delineate magnetite veins, and this was carried out, with emphasis on the area of exposed Guichon Intrusive.

Towards the western end [See Map 2] there is a sequence of broad, persistent magnetic linears running slightly south of east. This is most likely due to the variation in magnetite content between various volcanic flows and would therefore be parallel to bedding. The lines 32 + OCW and 16 + OCW are quite featureless. The

# GEOPHYSICS: [Cont'd]

The O + OO line has the highest magnetic relief of all, as would be expected considering the topographic relief and the high magnetite content of the intrusive. More interesting is the sharp, well defined "Sawtooth" anomaly superimposed on an otherwise well rounded profile. Coverage around the anomaly was increased [See Map 2] and the anomaly trend was found to be 107° with intensity increasing to the east.

The magnetic survey was extended into the unaltered volcanics to see if there was a sharp variation in magnetic intensity across the contact. As line 0 + 00 [See Map 2] shows, there is a gradual drop in magnetic intensity towards the volcanics. Some idea of the relative susceptibilities of the two rock units is available from a comparison of the background of a relatively quiet line in the intrusive [line 16 + 00W: background approx. 3400] with a quiet line in the volcanics [line 48 + 00 W: approx. 2700]. The gradual drop off probably means that the volcanic cover is wedging out over the intrusive.

#### GEOCHEMISTRY:

Background value for copper was considered, by inspection of 55 soil analyses, to be approximately 40 ppm.

A line across the only occurrence of mineralization [See

# GEOCHEMISTRY: [Cont'd]

Fig. 2] produced a 3 times background anomaly at the showing but with no significant width.

The magnetic anomaly was similarly covered by short lines. The results show an increase in copper values 400 feet to the north of the magnetic anomaly [2-1/2 times background], and "open" to the north.

Of special importance is the geochemical high immediately over the mineralization, proving that the geochemical method is working in this area. However, it also indicates that the mineralization probably has very little extent.

#### **CONCLUSIONS:**

Reconnaissance coverage of the claim group by mapping, magnetometer surveying, and by limited soil sempling, has failed to reveal any indications of mineralization of economic significance.

The "sawtooth" magnetic anomaly may represent shearing with associated magnetite but its extent would be small. Similarly the magnetic variations across the property are of insufficient amplitude to indicate any magnetite veins of any significant size.

## CONCLUSIONS: [Cont'd]

The single occurrence of copper is associated with a geochemical copper high of small extent.

Secondary features, such as the intense fracturing necessary for low grade copper deposits and the heavy alteration accompanying most high grade copper, are not present.

All in all, the chances of discovering an economic deposit on this property are low, and the chances of a magnetite-copper vein occurring, as on the neighbouring property, are almost nil. The possibility of further work is limited by the low odds for successful discovery and the masking effect of the unfavourable overlying volcanics.

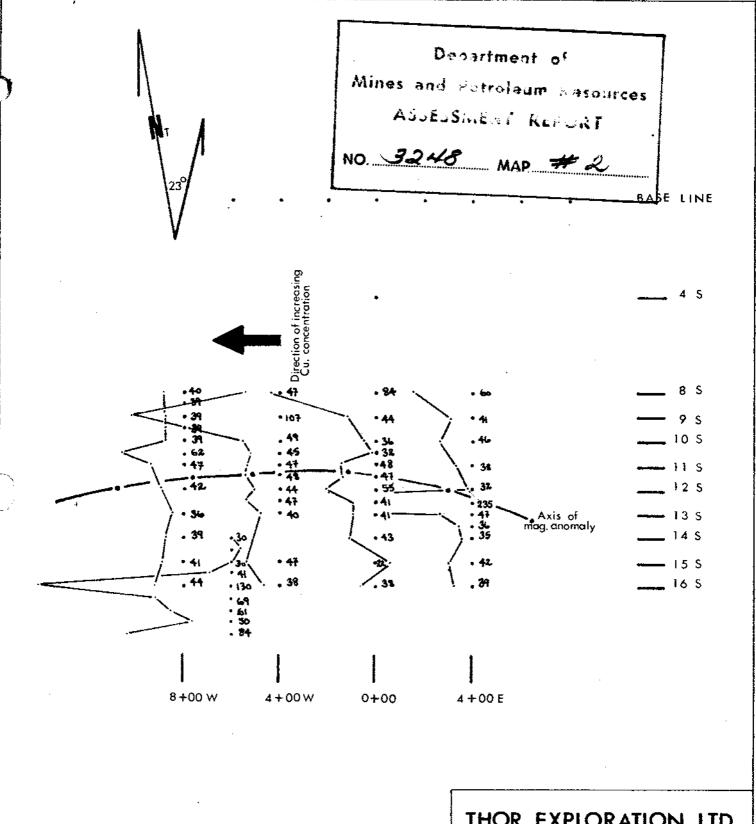
The only justifiable future work might be a soil sampling coverage of the southeast corner of the claims, where overburden between outcrops of intrusive could be covering small amounts of copper mineralization.

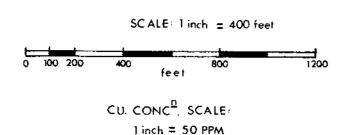
Cordially submitted,

D. Arscott

AU CO

J. Cant





# THOR EXPLORATION LTD.

AUDREY CLAIMS GEOCHEMICAL SAMPLING OVER MAGNETIC ANOMALY -copper-

Date: June, 1971

Ashcroft, B.C.

Sampled by J.W. Cant

# CERTIFICATE

I, David Philip Arscott, of #301 - 540 Burrard Street, Vancouver, B. C., am a Professional Engineer registered in British Columbia.

The reconnaissance survey of the Audrey Claims herein described was carried out under my direction.

The applicable costs as shown in the Appendix are true and accurate.

David arrealt

David Arscott 15th July, 1971 APPENDIX

# ROCK SPECIMEN DESCRIPTIONS

<u>NUMBER</u>	LOCATION	DESCRIPTION
AU #1	O+00, 24+305 from face of possible fault scarp	Intrusive. Fine grained light green matrix containing clumps of cream feldspars and mafics. Sheared, epidotized.
AU #2	0+00, 25+505 from side of scarp	Intrusive. Medium grained. About 60% light grey to light green feldspars. Mafics pre- dominantly biotite.
AU #3	25+00 <b>W,</b> 0+00	Volcanic. Fine grained, coarsely foliated, dark grey. Some small vesicles. Rusty tarnish on parting surfaces, and rusty weathering. Minor epidote.
AU #4	6+00W, 16+005 from vein in typical intrusive	Massive epidote, containing patch of crystalline, black, non-magnetic mineralization around which has formed a rusty rim. Small flecks of malachite on surface.
AU #5	48+00W, 3+0B5	Volcanic. Massive, brick red, fine grained, containing some quartz phenocrysts. Probably of intermediate composition.
<b>A</b> U #6	50+00W, 38"005	Volcanic, weakly foliated, dark grey, fine grained.
AU #7	0+00, 3+00S	Intrusive. Typical, medium grained, about 60% light blue to grey feldspar. Sometimes major pink and/or white feldspar. Mafics are mainly biotite, hornblende, and magnetite.
AU #8	0+00, 9+00N	Volcanic agglomerate, brick red. Fine grained matrix containing sub-angular volcanic rocks 5 cm in size.

#### **PROCEDURES:**

A base line and cross lines were established by chain and compass, and were marked clearly with flagging tape. The base line was aligned approximately parallel to the magnetite vein reported on the neighbouring property. Emphasis was placed on the section of the property known to be underlain by the Guichon Batholith. One traverse was made across the ungridded northern part of the claim block to verify the presence of the Kamloops volcanics in that area.

Magnetic readings were taken with a Sharpe MF-1 magnetometer, and diurnal variations corrected with reference to the base line.

Soil samples were collected by prospecting pick, transferred to paper bags, and shipped to Bondar Clegg and Company. They were oven dried, and the minus 80 mesh fraction analysed for copper by the atomic absorption method.

DATA

SHEET

SHEET NO:\_\_

SAMPLER:\_\_\_\_\_\_J. Cant, P. Fulljames

PROJECT:\_\_\_\_\_Audrey

Ashcroft AREA :\_

DATE: June 1971

SAMPLE No. and/or LOCATION	COLOUR	COMPOSITION	HORIZON	DEPFH	UPSLOP€ AZM.	GRAD.	
AU 6+00W,16+00S	Lt. Brn		'B'	6"	0		zn Base of small scarp near min.
,16+50S	Blk		'A'	1'	090,10		
,17±00s	Blk		'A'	7 1	090,20		
,17+50S	Lt. Brn	7,200	'B'	1:	090,20		High side of scarp
,18±00S	Blk		A		090,20	<u> </u>	
,15+50S	Lt. Brn		'B'	6"	0	ļ <u></u>	
,15+00S	Lt. Brn		'B'	6"	0		Low side of scarp
,14+50S	Lt. Brn		'B'	6"	0		
,14+00S	Lt. Brn		'В'	6"	0	ļ	
					ļ 		

SHEET NO:\_\_\_ Date June 1971

GEOCHEMICAL SAMPLING DATA SHEET

SAMPLER: J. Cant, p. Fulljames PROJECT: Audrey

AREA ASho

AREA . Ashcroft

SAMPLER:	PRO	ofect:			AREA	:	DATE:
SAMPLE NO. and LOCATION	COLOUR	COMPOSITION	HORIZON	DEPTH	UPSLOPE A₹M.	GRAD.	REMARKS
AU 0+00 ,8+00s	Dk. Brn		'A'	1'	170,20		
,9+00s	Brn		'B'	6"			
,10±00s	Brn		'B'		330,10		
,10+50s	Dk. Brn		 -++ <sub>A-</sub>		3 <del>30,</del> 10	1	
,l1+00S	Lt. Brn		'B'	1	. 090,1	1	
,11+50S	Brn		1B!	1.	0		
,12+00S	Lt. Brn		'B'	6"	0		
,12+50S	Blk		'A'	] '	. Ω	ļ	
,13+00s	Dr. Brn		IB'	1!	140, s		
,14+00S	Brn		'B'	6"	.0		
,15+00S	Lt. Brn		I'B'		230 <b>,</b> 20	1	
,16+00S	Lt. Brn		'B'	6"	0		Between two rid <sup>ges</sup>
					· · ·		
			<del> </del>				
			1				

DATA SHEET

AREA :\_

J. Cant, P. Fulljames Audrey

SAMPLER: PROJECT:

Ashcroft

DATE :\_\_\_\_\_\_\_

SAMPLE NO. and LOCATION	COLOUR	COMPOSITION	HORIZON	DEPTH	UPSLOPE AZM.	GRAD.	REMARKS
AU 4+00E,8+00S	Blk		'A'	6"	130, S		
,9+00S	Blk		'A'	6"	210, 10	)	
,10+005	Blk		'A'	6"	270, S		
,11+00S	Lt. Brn		'B'	6"	0		
,12+00S	Lt. Brn		'B'	1'	210,20		
,12+50S	Lt. Brn		'B'	6"	0		Top of ridge
,13+00S	Lt. Brn		'B'	6"	295,10		Between ridges
,13+50S	Brn Brn		'B'		<del>285,15</del>		
,14+00S	Lt. Brn		'B'	6"	270,15		
,15+00S	Lt. Brn		'B'	6"	190,15		
,16+00S	Brn		'B'	1'	010,20		
							_

SHEET

DATA

SHEET NO: 4

SAMPLER: J. Cant, P. Fulljames PROJECT: Audrey

AREA : Ashcroft

DATE : June 1971

SAMPLE NO. and or LOCATION	COLOUR	COMPOSITION	HORIZON	DEPTH	UPSLOPE AZM.	GRAD	REMARKS
AU 4+00W,8+00S,	Or. Brn		'B'	1'	200,15	]	
,9+00s	Lt. Brn		'B'	1'	0		Top of <b>r</b> idge
,10+00s	Blk		'A'	1'	020,15		
,10+50S	Dk. Brn		'A'	1'	000, s		
	Lt. Brn		ı <sub>B</sub> ı		270, s		
,11+50S	Dk Brn		'A'	1'	0		·
,12+00S	Lt. Brn		'B'	1'	000,10		
,12+50S	Lt. Brn		'B'	1'	000,10		
,13+00S	Lt. Gy		'B'	1'	000,15		Down to swamp at 14+00S
,15+00	Or. Brn		'B'	1'	100,10		
,16+00	Brn		'B'	6"	0		
		ļ					
	-						
					-		
			-				

DATA

SHEET

SHEET NO:\_

SAMPLER: J. Cant, P. Fulljames PROJECT: Audrey

Ashcroft AREA :\_

DATE: June 1970

SAMPLE NO. and LOCATION	COLOUR	COMPOSITION	HORIZON	DEPTH	UPSLOP€ A±M.	GRAD.	REMARKS
AU 8+00W,8+00S	Brn		'B'	1'	200,10		
,8+50S	Brn.		'B'		200,15		
,9+00S	Lt. Brn		1 <sub>B</sub> !	<u>l.</u> :	200,10		
,9+50S	Brn		'B'	1	140,10		
,10+00S	Lt. Brn		'B'	1'	170, S		
,10+50s	Brn		'B'	1'	180,10		
,11+00S	Brn		'B'	1'	0		
,12+00S	Lt. Brn		'B'	6"	090, s		
,13+008	Lt. Brn		'B'	6"	0		
,14+00S	Lt. Brn		'B'	6"	Ω		
,15+00S	Brn		t <sub>B</sub> r	11.	020, s		
,16+00S	Or. Brn		'B'	6"	0		
-							

1500 PEMBERTON AVENUE, NORTH VANCOUVER, B.C. PHONE 988-5315

### GEOCHEMICAL LAB REPORT

No. 21-201

From Mr.D. Arscott Extraction Hot Aqua Regla Date June 10, 1971 19 Method Atomic Absorption Fraction Used - 80 mesh К.В. Analyst .... CU REMARKS SAMPLE NO. SAMPLE NO. ppm ppm 4+00W 13+00S 40 0+00 8-5 84 15+00\$ 47 9 44 4+00W 16+00S 38 10 36 6+00W 14+00S 30 11 48 14+505 25 12 55 15+00S 30 13 41 43 6+00W 15+50S 41 14 22 165 130 15 38 69 0+00 165 16+50S 0+00 10+50\$ 32 6W 175 61 47 6+00W 17+50S 50 11+50\$ 12+50\$ 41 6+00W 18+00S 84 60 8\$ 4+00E 40 200+8 W00+8 9 41 8**+50S** 39 10 46 9+00\$ 39 11 38 9+50S 39 32 10+005 39 4+00E 12S 62 12+505 235 10+50\$ 47 47 13+005 11+00S 42 36 12+00S 13+505 35 14+00S 36 13+00\$ 42 15+00S 39 14+00S 4+00E 39 16+00S 41 15+00S 44 4+00W 8+00S 47 8+00W 16+00S 9+00S 107 10+00S 49 45 1-+505 47 11+00S 11+505 48 12+00S 44 12+50\$ 47

# CDSTS SUMMARY

# AUDREY CLAIMS

# TO JULY 30, 1971

LABOUR COSTS BREAKDOWN:	
Field Work	\$ 805.00
Travelling	102,50
Expediting	116.25
Report Preparation	179.37
Drafting	393.13
•	\$1,596.25 \$1,596.25
EXPENSES BREAKDOWN:	
Food & Lodging	<b>\$</b> 248.56
Truck Rental & Gas	244.15
Airfares, Taxis	101.05
Reproduction	12.70
Equipment Rentals	200.50
Soil Analyses	66.00
	\$ 872.96 872.96
TOTAL PROJECT COST	\$2,469.21

Invoice No. 14 May 31, 1971

Thor Explorations Ltd. 301 - 540 Burrard Street Vancouver 1, B. C.

Re: Field Programs

# AUDREY CLAIMS

Fees:	D. Arscott, 2 1/4 days J. Cant 7 days P. Fulljames 7 days	6	\$5.00 45.00 30.00	S	123.75 315.00 210.00	
	Expenses				694.20	
	•			\$:	1342.95	\$1342.95

# PYRITE CLAIMS

Fees:	1 3/4 d	lays 0	55.00	96.75	96.75

TOTAL COSTS FOR PERIOD
(See attached statement)

\$1439.70

David Arscott

David arrott

Thor Explorations Ltd. 540 Burrard Street Vancouver 1, B. C.

# Re: COSTS FOR PERIOD JUNE 1 - 15, 1971

1.	PYRITE	CLAIMS:

rees: D. A	- 2 days @ \$55.00	\$110.00	
Expenses		28.04	
Truck usage	(from Vancouver)		
	1/2 x 660 mi. x .10	33.00	
Assays	:	32.00	
	•	\$203.04	\$203.04

#### II POGO CLAIMS:

Fees: D.A.	- 1 1/2 days @ \$55.60	\$82.50
J. C.	8 days 0 45.00	360,00
P.F.	7 1/2 days @ 30.00	225.00
Expenses- J.C.		264.29
Truck usage	( to Vancouver )	
	= 1/2 x 660 mi. x .10	33.00
Expenses- D.A.		40.91
Field Supplies		39.06

\$1,044.76 \$\$1,044.76

## 111.AUDREY CLAIMS:

Expenses - J.C.	\$158.04
Expenses - D.A.	6/00
Fees: J.C. 5 days @ 45.00	225.00
P.F. 5 days @ 30.00	150.00
Soil analyses	66.00
•	\$605.04 \$605.04

TOTAL FOR PERIOD

O. arscott \$1852.84

Invoice # 21 June 30, 1971

Thor Explorations Ltd., 301 - 540 Burrard St., Vancouver 1, B.C.

Re: Costs for period 16 - 30 June 1971

AUDREY CLAIMS

Fees: D.A. 1 day @ 55.00 \$55.00

J.C. 4 days@ 45.00 180.00

P.F. 221/2 days @ 30.00 75.00 .

Expenses D.A. <u>56.50</u> CR

366-50 366-50 <del>263:50</del>

253.50 0.0.

PYRITE CLAIMS

Fees: D.A. 1/2 day 055.00 27.50

J.C. 9 days 045.00 405.00

P.F. 2 1\$2 days @30.00 180.00

Expenses: D.A. 47.40

Expenses: J.C. 285.13

Other Tilden Truck Rental 149.45

\$1094.48 1094.48

193.73

POGO CLAIMS

Expenses 193.73

TOTAL COSTS \$1654.71

1551.7

David Arscott

Thor Explorations Ltd. 301 - 540 Burrard Street Vancouver 1, B. C.

Re: Costs for Period July 1 - 15, 1971

CBS 3370 (Shared with Mark V Mines Ltd.)

See Invoice No. 24

326.78 X 3 =

163.39

CBS 1856 (Shared with Anglo-Bomarc Mines Ltd)

Fees: D.A. 3 days @ \$55.00 \$ \$165.00 J.C. 5½ days @ 45.00 247.50 P.F. 64 days @ 30.00 187.50 G.C. 41 days @ 30.00 135.00 W.M. 45 days @ 30.00 135.00 H.J. 44 days @ 30.00 135.00 D.V. 4½ days @ 30.00 135.00

Expenses:

D.A.

\$1,586.11

\$2,726.11 X ½

\$1,363.05

PYRITE CLAIMS

Fees: J.C. 1 day @ \$45.00 \$ 45.00

Expenses:

D.A.

148.60 193.60

3.93.60

AUDREY CLAIMS

Fees: D.A.3/4 days @ \$55.00 \$ 41.25

J.C. 4 days @ 45.00 180.00

Expenses:

D.A.

5.22

\$ 226.37

226.47

POGO CLAIMS

Fees: J.C. 2 days @ \$45.00

90.00

OPPORGOL MINE VISIT (Horseshoe Bay)

Fees: D.A. 1½ days @ \$55.00 \$ 68.75 J.C. 1 day @ 45.00 \$ 45.00 TALEGOSWS-ECR PERIOD 20.33

134.08

1) arcott =====

TOTALEQOSHSeFOR PERIOD

THOR EXPLORATIONS IMD., 301 - 540 Emerard Street, Vancouver 1, B.C.

# HOLLY TARGEDOM AC

DAVID P. ARSCOTT, P. ENG.

30 JULY, 1971

RE: COSTS FOR FOR	COD 16 - 30 JULY 1971:	·		
C B S 1856 (shared with See Days	Anglo-Romaro Kines Ltd. ice No. 29)	*		\$ 731.89
CBS 3370 (shared with See Invo	Mary V <u>Hines</u> Ltd. ice Ne. 30)	vecs:		868.75
		mypensus:	-	575.76
PARTIE CLATES EXPERSES:				275.20
ANENEZ CLAMS: FZES:	3/4 day 0 \$55.00			43.25
POOD OLAIGIS	1/2 day @ 55.00		2.1	%7 <b>.50</b> ×
OPPONDE NOTE VO EXPENSES:	<u>isit</u>			<u>45.00</u>
TOWAL COSTS FOR	PERTO:		A.	\$2,572.38
TOTAL AMOUNT DU	g (see attached statement	<b>)</b>		\$4,587.22

D. Arscott

## DOMINION OF CANADA:

PROVINCE OF BRITISH COLUMBIA.

To Wit:

In the Matter of THE GEOLOGICAL, GEOPHYSICAL AND GEOCHEMICAL RECONNAISSANCE OF THE AUDREY CLAIM GROUP.

#### DAVID PHILIP ARSCOTT ł.

301 - 540 Burrard Street, Vancouver 1, of

the following represents the in the Province of British Columbia, do solemnly declare that labour costs incurred on the above-mentioned project:

POSITION	DAYS WORKED	FEE	TOTAL COST	
Geologist	4 3/4	\$55.00	\$	261.25
Geologist	20	\$45.00	\$	900.00
Geologist's Assistent	14 1/2	\$30.00	\$	435.00
	Total		\$1,	,596.25
	Geologist Geologist's	Geologist 4 3/4 Geologist 20 Geologist's 14 1/2 Assistent	Geologist 4 3/4 \$55.00 Geologist 20 \$45.00 Geologist's 14 1/2 \$30.00 Assistent	POSITION DAYS WORKED FEE COS Geologist 4 3/4 \$55.00 \$ Geologist 20 \$45.00 \$ Geologist's 14 1/2 \$30.00 \$ Assistent

And I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath and by virtue of the "Canada Evidence Act."

Declared before me at the City of Marcaccase

Province of British Columbia, this 27

day of Julpt

A Commissioner for taking Affidavits within British Columbia or A Notary Public in and for the Province of British Columbia.

## STATEMENT OF QUALIFICATIONS

I, James William Cant, of 3985 West 12th Avenue, Vancouver, B. C., am a graduate geologist with four seasons of experience in Canada.

I am a graduate of McGill University, [B.Sc. 1968] and have partially fulfilled the requirements for an M.Sc., at Memorial University of Newfoundland. I have personally carried out the field work described herein.

Dames W. Cand

J. W. Cant 15th July, 1971

