



MEMORANDUM

NOTE DE SERVICE

CONFIDENTIAL

TO
À

Supervising Mining Recorder

FROM
DE

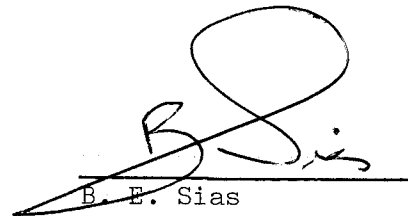
Mining Recorder, Whitehorse

SUBJECT
OBJET

Herewith your copy of Diamond Drill Logs submitted in support of assessment work.

115-A-14 Asarco Exploration Co. of Canada Limited REX 1, 2
ASBESTOS 1

Certificates of work and other data will be forwarded when completed.


B. E. Sias

c.c./Geology Section
Attn:M. Marchand

021314

SECURITY - CLASSIFICATION - DE SÉCURITÉ
OUR FILE - N/RÉFÉRENCE 340-17-6
YOUR FILE - V/RÉFÉRENCE
DATE 10 August 1979

115-A-14

REX 1 73601

REX 2 73602

ASBESTOS 1 724059

ASARCO EXPLORATION CO. OF
CANADA LIMITED

4 HOLES - 2097'

JUNE 1979

ASARCO AMERICAN SMELTING AND REFINING COMPANY

No 12264 V 7004

VANCOUVER, B.C. 4 July/79

\$ 49,411.80



PAID JUL 4 1979

PAY TO THE ORDER OF

J.T. Thomas Diamond Drilling Ltd.
PO Box 394,
Smithers, B.C. VOJ 2N0

THE ROYAL BANK OF CANADA
685 WEST HASTINGS STREET
VANCOUVER 2, B.C.

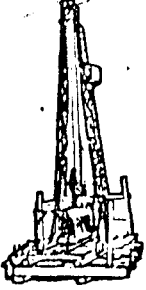
INVOICE DATE	INVOICE NUMBER	\$ 49,411.80
15 June/79	79-11	<p>CHARGE TO: 0185-00-610-950) 49411.80</p> <p>OK'D BY: [Signature] DATE PAID: 4 July 1979 CHQ. No. 12264</p>

PLEASE DETACH BEFORE DEPOSITING CHEQUE

THIS CHEQUE IS TENDERED IN FULL PAYMENT OF INVOICES LISTED ABOVE

AMERICAN SMELTING AND REFINING COMPANY
VANCOUVER, B.C.

081314



J. T. THOMAS
DIAMOND DRILLING LTD.
 —
SMITHERS, B.C.

PH. 847-3531
 P.O. BOX 394
 VOJ 2N0

To: Asarco Exploration Co. of Canada, Ltd.
 Suite 594 - 535 Thurlow Street
 Vancouver, B.C.
 V6E 3L2

Invoice No. 79-11
 Property: Yukon
 Invoice
 Date: June 15, 1979

Attn: Mr. Mike Lancaster

This invoice is for diamond drilling and other services on the above property per contract.

<u>Hole No.</u>	<u>Date From</u>	<u>To</u>	<u>Overburden From</u>	<u>To</u>	<u>Coring From</u>	<u>To</u>	<u>Total Footage</u>	<u>Rate</u>	<u>Amount</u>
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Diamond Drilling SEE ATTACHED PAGE 2

\$ 38,794.50

Mobilization: See attached Page 1

4,000.00

Demobilization:

Moving Costs: See attached Page 1
 Materials used, lost or damaged

1,125.00
 3,022.30

Mud Costs:

Cementing Costs:

Tractor Rental: See attached Page 1

1,120.00

Core Boxes:

Testing Hole:

Casing and Shoes Left in Hole:

Camp Provision:

Downtime:

Fly Time:

Other: Water Truck See Attached Page 1

1,350.00
1,500.00

Invoice Total:

\$ 49,561.80

The above calculations are agreed to by:

49,411.80

PAID JUN 1979

Company Representative

Jim Mc...
 J. T. THOMAS DIAMOND DRILLING LTD.

Mobilixation and demobilization of Equipment

\$ 4,000.00

Total Hours on Water Truck ~~60~~⁵⁴ Hours @ \$25.00

1 350
\$ -1,500.00

Total Hours on Tractor 35 Hours @ \$32.00

\$ 1,120.00

Moving Costs: Mixing, Mud, Reaming, Man hours.

Date	<u>H. Harvey</u>	<u>M. Gosselin</u>	<u>S. Leduc</u>	<u>P. Wolonowski</u>
June 5, Day	3	3	3	3
June 6, Day	2	5		3
June 8, Day		3		
June 11, Day	1	2		
June 12, Day	1	1		
June 12, Night			2	3
June 13, Day		2		
June 13, Night			3	3
June 14, Night			2	2
June 15,	<u>5</u>	<u>5</u>	<u>9</u>	<u>9</u>
Totals	<u>12</u>	<u>21</u>	<u>19</u>	<u>23</u>

Total Hours 75 @ \$ 15.00

\$ 1,125.00

No Charge for Drill.

PAID JUL 4 1973

Diamond Drilling

<u>Hole No.</u>	<u>Date</u>	<u>Overburden</u>		<u>Coring</u>		<u>Total Footage</u>	<u>Rate</u>	<u>Amount</u>
		<u>From</u>	<u>To</u>	<u>From</u>	<u>To</u>			
79- 1	June 6-7	0	39	39	505	505	18.50	\$ 9,342.50
79- 2	June 7-11	0	67	67	505	505	18.50	9,342.50
79- 3	June 11-13	0	65	65	482	482	18.50	8,917.00
79- 4	June 13-15	0	117	117	605	605	18.50	<u>11,192.50</u>
Total for Diamond Drilling								<u>\$ 38,794.50</u>

MATERIALS USED, LOST OR DAMAGED:

<u>Date</u>	<u>Hole No.</u>	<u>Quantity</u>	<u>Item</u>	<u>Cost</u>	<u>Total</u>
June 6	79- 1	5	Quik Gel	\$ <u>40.00</u>	\$ 40.00
June 7	79- 1	2	NQ Drill Rods	<u>124.00</u>	124.00
June 8	79- 2	1	<u>3 15/16 Tri Cone</u>	n/c **	
		9	Quik Gel	72.00	
		1	<u>NW Shoe</u>	n/c **	
		1	NQ Drill Rods	<u>62.00</u>	134.00
June 10	79- 2	30	Gal. Soluble oil	<u>105.00</u>	105.00
June 11	79- 2	9	Quik Gel	<u>72.00</u>	72.00
June 12	79- 3	1	60% of NQ Bit	240.00	
		2	5 ft. NW Casing	70.00	
		5	10 Ft. NW Casing	340.00	
		1	NW Casing Shoe	150.00	
		20	Gal. Soluble Oil	<u>70.00</u>	870.00
June 13	79- 3	4	Quik Gel	32.00	
		3	Quik Trol	24.30	
		3	Gal. Quik VIP	105.00	
	79- 4	2	10 ft. NW Casing	136.00	
		4	Quik VIP	140.00	
		4	Poly Drill	<u>140.00</u>	577.30
June 14	79- 4	4	Quik VIP	140.00	
		1	NQ Bit 95%	<u>380.00</u>	520.00
June 15	79- 4	2	Quik VIP	<u>70.00</u>	70.00
Total Core Boxes 102 @ \$5.00 (No cost plus for Core Boxes.)					<u>510.00</u>
Total					<u>\$ 3,022.30</u>

** Items indicated by underscoring and asterisks are those for which no charge was made for materials used, lost or damaged.

Asarco Exploration

R. E. Gale
Manager — Western Canada



1 August 1979

TO WHOM IT MAY CONCERN:

Diamond drill holes 79-1, 79-2, 79-3 and 79-4 do not contain adequate asbestos fiber to properly carry out a Quebec Standard Test; therefore, no laboratory testing was performed on any core from the 1979 drilling program. Visual assays have been calculated for the higher yield sections and for the entire length of each drill hole.

A handwritten signature in cursive script, appearing to read "Michael F. Lancaster".

Michael F. Lancaster,
Geologist.

CLAIM NO. REX 142

DIAMOND DRILL RECORD

PROPERTY HAINESHOLE NO. 79-1LATITUDE ELEVATION BEARING 090° DEPTH 505' STARTED 6 JUNE 79 COMPLETED 8 JUNE 79DEPARTURE SECTION DIP -45° DRILLED BY J. T. THOMAS LOGGED BY M. LANCASTER

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS		
						Core Recovered		
0-39	<u>Overburden</u>		39	40	1	0.75		
			40	45	5	4.7		
39-74.5	<u>Serpentinized Dunite</u>		45	50		4.75		
	<u>No fiber</u>		50	55		4.6		
	<u>The rock is uniform in character, fine grained, and basically pale grey green in color with small irregular shaped dark blackish green patches. Serpentinization is weak throughout the rock as a whole but is strong along fractures and moderate-strong in the dark colored patches. Magnetite as very fine grained disseminated specks comprises 3-5% of the rock. Random oriented fracturing is weak with one foot or greater spacing. Fractures may contain a hairline coating of serpentine, magnetite and/or white calcite. Trace blue bloom on a few fractures. Silvery grey to pale green pyroxene crystals to 1/8" in diameter form 5% or less of the rock. These crystals are not serpentinized.</u>		55	60		5.0		
			60	65		5.0		
			65	70		5.1		
			70	75		5.0		
			75	80		5.0		
			80	85		5.0		
			85	90		4.9		
			90	95		5.0		
			95	100		5.0		
			100	105		5.0		
		105	110		4.4			
		110	115		4.9			
		115	120		5.0			
		120	125		5.0			
		125	130		5.0			
		130	135		5.0			

CLAIM NO.

DIAMOND DRILL RECORD

PROPERTY HAINESHOLE NO. 79-1 (3)

LATITUDE ELEVATION BEARING DEPTH STARTED COMPLETED

DEPARTURE SECTION DIP DRILLED BY LOGGED BY

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
						Core recovered			
	110.5' Contact at 40° to core axis		235	240	5	5.0			
			240	245					
110.5'-113'	<u>Serpentinized Peridotite</u>		245	250					
	No fibre		250	255					
	The rock is dark green in color with $\frac{1}{8}$ " -		255	260					
	$\frac{3}{16}$ " silvery grey pyroxene crystals forming 20% of		260	265					
	the rock. Pervasive serpentinization is strong,		265	270					
	however the pyroxene crystals remain essentially		270	275					
	fresh. Fracturing is weak.		275	280					
			280	285					
113'-166'	<u>Serpentinized Stanite</u> similar to 39'-74.5'		285	290					
	Trace cross fiber chrysotile asbestos. Fiber		290	295					
	is apple green in color, white when fluffed, strong,		295	300					
	breaks into bundles easily and fluffs readily.		300	305					
	Veinlets range from 25° to 50° to core axis.		305	310					
	Fiber length varies considerably over very short		310	315					
	distances of less than one foot. Veinlets are		315	320					
	composed of "fiber lenses" with magnetite		320	325					
	and serpentine ^{also} within the veinlet.		325	330					
	The rock is dark grey green in color.		330	335					

DIAMOND DRILL RECORD

CLAIM NO. _____

PROPERTY HAINES

HOLE NO. 70-1

LATITUDE _____ ELEVATION _____ BEARING _____ DEPTH _____ STARTED _____ COMPLETED _____

DEPARTURE _____ SECTION _____ DIP _____ DRILLED BY _____ LOGGED BY _____

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS				
						core recovered				
	<i>Serpentinization is pervasive and of moderate intensity.</i>		335	340	5	5.0				
			340	345						
	<i>113' Contact 35° to core axis 161-162 Talrose fault gouge</i>		345	350						
166-168	<i>Serpentinized Peridotite as for 110.5'-113'</i>		350	355						
			355	360						
168-272.5	<i>Serpentinized Garnite similar to 39'-74.5'</i>		360	365						
	<i>Minor antigorite and amorphous serpentine veinlets. Serpentinization now intense along fractures</i>		365	370						
			370	375						
			375	380						
	<i>214'-221' Intensely fractured and intensely serpentinized (100%) zone at 005° to core axis. This zone exhibits slickensides, contains antigorite and is slightly talrose. Minor iron stain. Magnetite (3%) occurs as blebs along fractures.</i>		380	385						
			385	390						
			390	395						
			395	400						
			400	405						
			405	410						
			410	415						
272.5'-505'	<i>Pyroxenite and minor High Pyroxene Peridotite as for 74.5'-110.5'</i>		415	420						
			420	425						
	<i>272.5' Contact 35° to core axis</i>		425	430						
			430	435						

Working Place HAINES
 Lat.
 Dep.
 Elev.

D D Hole No. 79-1
 Bearing 0.90°
 Angle - 95°
 Depth 505'

Footage from	To	1 - 32	1 - 16	1 - 8	3 - 16	1 - 4	5 - 16	3 - 8	7 - 16	1 - 2	Plus 1 - 2	Lost Core	%	REMARK
39	40	—												
40	45	—												
45	50	—												
50	55	—												
55	60	—												
60	65	—												
65	70	—												
70	75	—												
75	80	—												
80	85	—												
85	90	—												
90	95	—												
95	100	—												
100	105	—												
105	110	—												
110	115	—												
115	120	—												
120	125	—												
125	130	—												
130	135							1						50' to ...
135	140	—												
140	145	1	1											25° 150'
145	150	—												
150	155	—												
155	160	—												
160	165	1												50'
165	170	3	1											30'
170	175	—												
175	180	—												
180	185	1												25°
185	190		2	1										20°
190	195	—												
195	200	—												
200	205		1	1										35°
205	210	—												

D. D. Hole 79-1

Working Place *HAINES*
 Lat.
 Dep.
 Elev.

D D Hole No. *79-1*
 Bearing *090°*
 Angle *-95°*
 Depth *505'*

Footage m	To	1 - 32	1 - 16	1 - 8	3 - 16	1 - 4	5 - 16	3 - 8	7 - 16	1 - 2	Plus 1 - 2	Lost Core	%	REMARKS
10	215		1											05' to core
15	220	1												05'
20	225		1											05'
25	230	4	1											05'
30	235	3												40'
35	240	—	—											
40	245	—	—											
45	250	—	—											
50	255	—	—											
55	260	—	—											
60	265	2	2											35'
65	270	—	—											
70	275	—	—											
75	280	—	—											
80	285	—	—											
85	290	—	—											
90	295	—	—											
95	300	—	—											
100	305	—	—											
105	310	—	—											
110	315	—	—											
115	320	—	—											
120	325	—	—											
125	330	—	—											
130	335	—	—											
135	340	—	—											
140	345	—	—											
145	350	—	—											
150	355	—	—											
155	360	—	—											
160	365	—	—											
165	370	—	—											
170	375	—	—											
175	380	—	—											
180	385	—	—											

D. D. Hole *79-1*

Working Place *HAINES*

D D Hole No. *72-1*

Lat.

Bearing *620°*

Dep.

Angle *-45°*

Elev.

Depth *505'*

Footage From	To	1 - 32	1 - 16	1 - 8	3 - 16	1 - 4	5 - 16	3 - 8	7 - 16	1 - 2	Plus 1 - 2	Lost Core	%	REMARK
<i>85</i>	<i>790</i>	_____	_____											
<i>90</i>	<i>795</i>	_____	_____											
<i>95</i>	<i>800</i>	_____	_____											
<i>100</i>	<i>805</i>	_____	_____											
<i>105</i>	<i>810</i>	_____	_____											
<i>110</i>	<i>815</i>	_____	_____											
<i>115</i>	<i>820</i>	_____	_____											
<i>120</i>	<i>825</i>	_____	_____											
<i>125</i>	<i>830</i>	_____	_____											
<i>130</i>	<i>835</i>	_____	_____											
<i>135</i>	<i>840</i>	_____	_____											
<i>140</i>	<i>845</i>	_____	_____											
<i>145</i>	<i>850</i>	_____	_____											
<i>150</i>	<i>855</i>	_____	_____											
<i>155</i>	<i>860</i>	_____	_____											
<i>160</i>	<i>865</i>	_____	_____											
<i>165</i>	<i>870</i>	_____	_____											
<i>170</i>	<i>875</i>	_____	_____											
<i>175</i>	<i>880</i>	_____	_____											
<i>180</i>	<i>885</i>	_____	_____											
<i>185</i>	<i>890</i>	_____	_____											
<i>190</i>	<i>895</i>	_____	_____											
<i>195</i>	<i>900</i>	_____	_____											
<i>200</i>	<i>905</i>	_____	_____											

D. D. Hole *72-1*

PROPERTY HAINES

DDH NO. 79-1

LOCATION YUKON

FROM 130 TO 235

REMARKS _____

BY MFL DATE 7 JUNE '79

VEIN WIDTH	NO. VEINS	NO. 16THS	NO. 16THS	CONV. FACTOR	NO. OZ. IN 1 LB	NO. POINTS
1/2						
7/16						
3/8	1	6				
5/16						
1/4						
3/16						
1/8	2	4	4	2.56	10	25.6
1/16	8	8				
1/32	14	7	15	9.6	1	9.6
TOTALS			25	16.00		188.8

FIBRE VALUE/TON
 TOTAL POINTS = 188.8
 \$/TON FIBRE 1957 = \$ 147.95

PERCENT FIBRE
 SAMPLE LENGTH OR CORE RECOVERED 105 FT.
 UNCORRECTED
 $\frac{16^{th} \text{ FIBRE} \times 100}{\text{SAMP FT} \times 192} = \frac{25 \times 100}{105 \times 192} =$ 0.127
 CORRECTED
 $\frac{\% \text{ FIBRE}}{\text{UPGRADE FACTOR}} =$ 0.177

ROCK VALUE/TON
 1957 PRICE
 $\frac{\% \text{ FIBRE} \times \text{FIBRE VALUE/TON}}{0.17 \times 147.95} =$ \$ 0.25
 PRESENT PRICE
 $\frac{\text{ROCK VALUE/TON} \times \text{FACTOR}}{0.25 \times 3.33} =$ \$ 0.83

CALCULATIONS

CORE MILL RESULTS
 QST _____
 FIBRE VALUE/TON _____
 PERCENT FIBRE _____
 ROCK VALUE/TON _____

PROPERTY HAINES

DDH NO. 79-1

LOCATION YUKON

FROM 39 TO 505

REMARKS _____

BY ML DATE 27 June 70

VEIN WIDTH	NO. VEINS	NO. 16THS	NO. 16THS	CONV. FACTOR	NO. OZ. IN 1 LB	NO. POINTS
1/2				X	=	X 100
7/16						
3/8	1	6				
5/16						
1/4			6	X	3.43 =	X 40 137.2
3/16						
1/8	2	4	4	X	2.28 =	X 10 22.8
1/16	10	10				
1/32	16	8	18	X	10.28 =	X 1 10.3
TOTALS			28		15.99	170.3

FIBRE VALUE/TON
TOTAL POINTS = 170.3
\$/TON FIBRE 1957 = \$137.68

PERCENT FIBRE
SAMPLE LENGTH
OR
CORE RECOVERED 466 FT.
UNCORRECTED
 $\frac{16\text{THS FIBRE} \times 100}{\text{SAMP FT} \times 192} = \frac{28 \times 100}{466 \times 192} =$ 0.03%
UPGRADE FACTOR = 0.04%
 $\frac{0.03}{1.4} =$

ROCK VALUE/TON
1957 PRICE
 $\frac{\% \text{ FIBRE} \times \text{FIBRE VALUE/TON}}{0.04 \times 137.68} =$ \$0.06
PRESENT PRICE
 $\frac{\text{ROCK VALUE/TON} \times \text{FACTOR}}{0.06 \times 3.33} =$ \$0.20

CALCULATIONS 89107.2

CORE MILL RESULTS
QST _____
FIBRE VALUE/TON _____
PERCENT FIBRE _____
ROCK VALUE/TON _____

CLAIM NO. REX 142

DIAMOND DRILL RECORD

PROPERTY HAINES001314HOLE NO. 79-2

LATITUDE

ELEVATION

BEARING 090°DEPTH 505'STARTED 8 JUNE '79COMPLETED 10 JUNE '79

DEPARTURE

SECTION

DIP -45°DRILLED BY J. T. THOMASLOGGED BY M. LANCASTER

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS				
						core recovered				
0-67	<u>Overburden</u>		67	70	3	1.5				
			70	75	5	4.25				
67-98'	<u>Serpentinized Granite</u>		75	80		5.0				
	<p><i>Trace cross fiber chrysotile asbestos. Fiber is apple green in color, white when fluffed, strong, breaks into bundles easily and fluffs readily. Fiber veinlets pinch and swell over 1-2" along their length. Veinlets are often a combination of cross and oblique fiber with amorphous serpentine and magnetite.</i></p> <p><i>The rock is uniform in character, fine grained and essentially is greyish green in color. Serpentinization is moderate to weak throughout the rock as a whole but is strong to intense along fractures. Magnetite as very fine grained disseminated specs comprise 5-7% of the rock. Random oriented fracturing is weak with a 1-2' spacing. Fractures may contain a hairline coating of serpentine, magnetite and/or white calcite. A few fractures</i></p>		80	85						
				85	90					
				90	95		5.4			
				95	100		5.0			
				100	105					
				105	110					
				110	115					
				115	120					
				120	125					
				125	130					
			130	135						
			135	140						
			140	145						
			145	150						
			150	155						
			155	160						
			160	165						

CLAIM NO.

DIAMOND DRILL RECORDPROPERTY HAINESHOLE NO. 79-2②

LATITUDE ELEVATION BEARING DEPTH STARTED COMPLETED

DEPARTURE SECTION DIP DRILLED BY LOGGED BY

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
						core recovered			
	contain bladed antigorite. Trace blue bloom		165	170	5	5.0			
	and iron stain along a few fractures. Silvery		170	175					
	grey to pale green pyroxene crystals less than		175	180					
	$\frac{1}{8}$ " in diameter from 5% or less of the		180	185					
	rock. These crystals are not serpentinized.		185	190					
	71'-73' Broken core		190	195					
	73' Ground core		195	200					
	76'-77' Broken core		200	205					
	80' 2" Mud seam		205	210					
	95' 3" Cave		210	215					
	98' Contact @ 45° to core axis		215	220					
			220	225					
98-100'	<u>Pyroxenite</u>		225	230					
	No fiber		230	235					
	This rock is mottled in color, basically		235	240					
	being pale green with some pyroxene crystals		240	245					
	a dark green color. Grain size is uniform		245	250					
	at $\frac{1}{4}$ ". Serpentinization is weak throughout		250	255					
	the rock as a whole and is intense along		255	260					
	fractures. Magnetite is <u>absent</u> .		260	265					

CLAIM NO.

DIAMOND DRILL RECORD

PROPERTY..... HAINES.....

HOLE NO. 79-2 (3)

LATITUDE ELEVATION BEARING DEPTH STARTED COMPLETED

DEPARTURE SECTION DIP DRILLED BY LOGGED BY

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
						core recovered			
	<i>Random oriented fracturing is weak. a few fractures contain a hairline coating of serpentine or white calcite.</i>		265	270	5	5.0			
			270	275					
			275	280					
			280	285					
			285	290					
100'-342.2'	<i>Serpentinized Granite as far 67'-98'</i>		290	295					
	<i>116' 2" fibrous antigorite</i>		295	300					
	<i>108'-120' Serpentinization moderate to strong</i>		300	305					
	<i>206.5' 1/2" fibrous antigorite @ 90° to core axis</i>		305	310					
	<i>214'-215' Non-fibrous antigorite @ 10° to core axis</i>		310	315					
	<i>220.75'-222.2' Halfway between slip fiber and fibrous antigorite - no cross fiber</i>		315	320					
	<i>73° to core axis - small fragments of 100% serpentine in a solid mass of fibrous antigorite and slip fiber.</i>		320	325					
	<i>Hole 78-12 contained similar material as found in this section.</i>		325	330					
	<i>222.2'-223.6' Intensely serpentinized and intensely fractured rock with pale creamy yellow green talc and 1"</i>		330	335					
			335	340					
			340	345					
			345	350					
			350	355					
			355	360					
			360	365					

CLAIM NO.

DIAMOND DRILL RECORD

PROPERTY HAINESHOLE NO. 79-2 (7)

LATITUDE

ELEVATION

BEARING

DEPTH

STARTED

COMPLETED

DEPARTURE

SECTION

DIP

DRILLED BY

LOGGED BY

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
						core recovered			
	veinlet of white magnesite		365	370	5	5.0			
	240' Serpentinization now weak, confined to fractures. 3-5% black biotite		370	375					
	292'-295.5' Serpentinized Peridotite - 20-30% large 1/2" diameter pale green pyroxene crystals		380	385					
	303'-304' Serpentinized Peridotite as for 292'-295.5'		395	400					
	299' Serpentinization now strong to moderate		400	405					
	307'-308' White magnesite vein @ 45° to core		405	410					
	311' 3" Iron stained gouge		415	420					
	311.5'-312.0' Magnesite veining @ 40° to core		420	425					
	342.2' Contact @ 43° to core		425	430					
			430	435					
			435	440					
342.2'-360'	<u>Pyroxenite</u> similar to 98'-100'		440	445					
	Pyroxene crystals smaller, now 1/16" - 1/8" in dia.		445	450					
	348' 2' Serpentinized Garnite @ 25° to core		450	455					
	350' 2" " " " 17° " "		455	460					
	360' Contact @ 80° to core axis		460	465					

Working Place *HAINES*

D D Hole No. *79-2*

Lat.

Bearing *090'*

Dep.

Angle *-45'*

Elev.

Depth *505'*

Footage From	To	1 - 32	1 - 16	1 - 8	3 - 16	1 - 4	5 - 16	3 - 8	7 - 16	1 - 2	Plus 1 - 2	Lost Core	%	REMARKS
67	70	—	—											
70	75	—	—											
75	80	1	1											25' to core
80	85		1											10'
85	90	—	—											
90	95	—	—											
95	100	—	—											
100	105	—	—											
105	110	—	—											
110	115	—	—											
115	120		2											10'
120	125	—	—											
125	130		2											30'
130	135	—	—											
135	140	—	—											
140	145	1												28'
145	150	—	—											
150	155	—	—											
155	160	—	—											
160	165	—	—											
165	170	—	—											
170	175	—	—											
175	180	—	—											
180	185	—	—											
185	190	—	—											
190	195	1	1											75'
195	200			1										50'
200	205	—	—											
205	210	—	—											
210	215	—	—											
215	220	1	1											55' + 63'
220	225	1												12 inches of fibrous slip antigorite @ 73° to core 75'
225	230	—	—											
230	235	—	—											
235	240		2	1										40'

D. D. Hole *79-2*

Working Place HAINES

D D Hole No. 79-2

Lat.

Bearing 090°

Dep.

Angle -95°

Elev.

Depth 505'

Footage		1 - 32	1 - 16	1 - 8	3 - 16	1 - 4	5 - 16	3 - 8	7 - 16	1 - 2	Plus 1 - 2	Lost Core	%	REMARK
From	To													
240	245	1												35° to cor
245	250	—												
250	255	—												
255	260	—												
260	265	—												
265	270	—												
270	275	—												
275	280		2	1										35°
280	285	—												
285	290	—												
290	295	—												
295	300		1											40°
300	305	—												
305	310	—												
310	315	—												
315	320	—												
320	325	—												10°
325	330		1											
330	335	—												
335	340	—												
340	345	—												
345	350	—												
350	355	—												
355	360	—												
360	365	—												
365	370	—												
370	375	—												
375	380	—												
380	385	—												
385	390	—												
390	395	—												
395	400	—												
400	405	—												
405	410	—												
410	415	—												

D. D. Hole 79-2

Working Place HAINES

Lat.

Dep.

Elev.

D D Hole No. 79-2

Bearing 0.90'

Angle -95'

Depth 505'

Footage		1 - 32	1 - 16	1 - 8	3 - 16	1 - 4	5 - 16	3 - 8	7 - 16	1 - 2	Plus 1 - 2	Lost Core	%	REMARKS
From	To													
415	420	—	—											
420	425	—	—											
425	430	—	—											
430	435	—	—											
435	440	—	—											
440	445	—	—											
445	450	—	—											
450	455	—	—											
455	460	—	—											
460	465	—	—											
465	470	—	—											
470	475	—	—											
475	480	—	—											
480	485	—	—											
485	490	—	—											
490	495	—	—											
495	500	—	—											
500	505	—	—											

D. D. Hole 79-2

PROPERTY HAINES

DUH NO. 79-2

LOCATION YUKON

FROM 190 TO 245

REMARKS _____

BY ML DATE 27 JUNE 79

VEIN WIDTH	NO. VEINS	NO. 16THS	NO. 16THS	CONV. FACTOR	NO. OZ. IN 1 LB	NO. POINTS
1/2				X	=	X 100
7/16						
3/8						
5/16						
1/4				Y	=	X 40
3/16						
1/8	2	4	4	X	5.82 =	X 10 58.2
1/16	5	5				
1/32	5	2	7	X	10.18 =	X 1 10.2
TOTALS			11	16		68.4

FIBRE VALUE/TON
 TOTAL POINTS = 68.4
 \$/TON FIBRE 1957 = \$ 69.76

PERCENT FIBRE
 SAMPLE LENGTH
 OR
 CORE RECOVERED 55 FT.
 UNCORRECTED
 $\frac{16^{th} \text{ FIBRE} \times 100}{\text{SAMP FT} \times 192} = \frac{11 \times 100}{55 \times 192} =$ 0.10 %
 UPGRADE FACTOR
 $\frac{\% \text{ FIBRE}}{0.10} \times 1.4 =$ 0.15 % CORRECTED

ROCK VALUE/TON
 1957 PRICE
 $\frac{\% \text{ FIBRE}}{0.15} \times \frac{\text{FIBRE VALUE/TON}}{69.76} =$ \$ 0.10
 PRESENT PRICE
 $\frac{\text{ROCK VALUE/TON}}{0.10} \times 3.33 =$ \$ 0.35

CALCULATIONS 10560

CORE MILL RESULTS
 QST _____
 FIBRE VALUE/TON _____
 PERCENT FIBRE _____
 ROCK VALUE/TON _____

PROPERTY HAINES
 LOCATION YUKON
 REMARKS _____
 BY ML DATE 27 JUNE 79

DDH NO. 79-2
 FROM 67 TO 505

VEIN WIDTH	NO. VEINS	NO. 16THS	NO. 16THS	CONV. FACTOR	NO. OZ. IN 1 LB	NO. POINTS	
1/2				X	=	X 100	
7/16							
3/8							
5/16							
1/4				Y	=	X 40	
3/16							
1/8	3	6	6	X	4	= X 10 40	
1/16	15	15					
1/32	7	3	18	X	12	= X 1 12	
TOTALS			24		16		52

FIBRE VALUE/TON
 TOTAL POINTS = 52
 \$/TON FIBRE 1957 = \$ 57.38

PERCENT FIBRE
 SAMPLE LENGTH OR CORE RECOVERED 438 FT.
 UNCORRECTED
 $\frac{16^{th} \text{ FIBRE} \times 100}{\text{SAMP FT} \times 192} = \frac{24 \times 100}{436.15 \times 192} =$ 0.03%
 UPGRADE FACTOR = 0.04%
 $0.03 \times 1.4 =$

ROCK VALUE/TON
 1957 PRICE
 $\% \text{ FIBRE} \times \text{FIBRE VALUE/TON} =$ \$ 0.03
 $0.04 \times 57.38 =$
 PRESENT PRICE
 ROCK VALUE/TON FACTOR = \$ 0.08
 $0.03 \times 3.33 =$

CALCULATIONS 83770.8

CORE MILL RESULTS
 QST _____
 FIBRE VALUE/TON _____
 PERCENT FIBRE _____
 ROCK VALUE/TON _____

CLAIM NO.

DIAMOND DRILL RECORDPROPERTY HAINESHOLE NO. 72-3 (2)

LATITUDE ELEVATION BEARING DEPTH STARTED COMPLETED

DEPARTURE SECTION DIP DRILLED BY LOGGED BY

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
						core recovered			
	103.5' 6" Shear zone? @ 45° to core		160	165	5	4.8			
	118'-121.5' Pyroxene crystals silvery grey in color, soft, talcose alteration		165	170		5.0			
			170	175					
	152' 6" Fault gouge @ 40° to core		175	180					
	215' 1" White crystalline calcite 75° to core		180	185					
	210' 5" Serpentinized Granite @ 45° to core		185	190					
	220' With increasing depth in the hole, there is an increase in olivine content		190	195					
	and an accompanying increase in serpentinization to weak with patches of moderate pervasive serpentinization.		195	200					
			200	205					
			205	210					
			210	215					
			215	220					
	236.5' 3" White crystalline calcite @ 25° to core		220	225					
	233'-243' Pervasive serpentinization moderate to strong		225	230					
			230	235					
	283.5' 1" Serpentinized Granite @ 40° to core		235	240					
	290' 1" " " @ 45° " "		240	245					
	300-307.5' " " @ 40° " "		245	250					
			250	255					
307-363	<u>Serpentinized Granite</u>		255	260					

CLAIM NO.

DIAMOND DRILL RECORDPROPERTY HAINESHOLE NO. 793 (3)

LATITUDE

ELEVATION

BEARING

DEPTH

STARTED

COMPLETED

DEPARTURE

SECTION

DIP

DRILLED BY

LOGGED BY

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS					
						Core recovered					
	Trace cross fiber chrysotile asbestos. Fiber is apple green in color, white when fluffed, strong, breaks into bundles easily and fluffs readily. Fiber veinlets pink and swell over 1-2" along their length. Veinlets are often a combination of cross and oblique fiber with amorphous serpentine and magnetite.		260	265	5	5.0					
			265	270							
			270	275							
			275	280							
			280	285							
			285	290							
			290	295							
			295	300							
		The rock is uniform in character, fine grained and dark greyish green to blackish green in color. Serpentinization is pervasive, moderate to strong in intensity and intense along fractures. Magnetite as very fine grained disseminated spec comprises 3-5% of the rock. Very fine grained golden black biotite forms approximately 2% of the rock. Random oriented fracturing is weak to blocky. Fractures may contain amorphous serpentine, white calcite, creamy yellow green talc, magnetite and blue bloom. Silvery grey to pale green pyroxene crystals to 1/8" in		300	305						
				305	310						
			310	315							
			315	320							
			320	325							
			325	330							
			330	335							
			335	340							
			340	345							
			345	350							
		350	355								
		355	360								

CLAIM NO.

DIAMOND DRILL RECORDPROPERTY HAINESHOLE NO. 72-3 ②

LATITUDE

ELEVATION

BEARING

DEPTH

STARTED

COMPLETED

DEPARTURE

SECTION

DIP

DRILLED BY

LOGGED BY

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
						core recovered			
	diameter from up to 10% of the rock. These crystals are unaltered.		360	365	5	4.4			
			365	370		5.0			
	307' - Contact @ 55° core axis		370	375					
	317' - 3" Pale creamy white talc @ 50° to core		375	380					
	357-360 Broken Core		380	385					
			385	390					
363-381	<u>Pyroxenite</u> as for 62.3-307		390	395		4.75			
	363 Contact @ 35° to core		395	400		5.0			
	381 " " 35° " "		400	405					
			405	410					
381-399	<u>Serpentinized Gneiss</u> as for 307-363'		410	415		4.7			
	389.5' - 392' Intense fracturing @ 35° to core		415	420		4.5			
	395' - 399' Partially broken core		420	425		5.0			
			425	430		4.6			
399-482	<u>Pyroxenite</u> similar to 62.3'-307'		430	435		4.75			
	Pyroxenite appears to be brecciated		435	440		3.3			
	in patches with fragments of chloritized		440	445		5.0			
	rock. Rock is strongly fractured with		445	450		3.8			
	chloritic alteration associated with some		450	455		3.8			
	fractures.		455	460		4.4			

Working Place HAINES

D D Hole No. 79-3

Lat.

Bearing 090°

Dep.

Angle -15°

Elev.

Depth 982'

Footage From	To	1 - 32	1 - 16	1 - 8	3 - 16	1 - 4	5 - 16	3 - 8	7 - 16	1 - 2	Plus 1 - 2	Lost Core	%	REMARKS
62.3	65	—	—											
65	70	—	—											
70	75	—	—											
75	80	—	—											
80	85	—	—											
85	90	—	—											
90	95	—	—											
95	100	—	—											
100	105	—	—											
105	110	—	—											
110	115	—	—											
115	120	—	—											
120	125	—	—											
125	130	—	—											
130	135	—	—											
135	140	—	—											
140	145	—	—											
145	150	—	—											
150	155	—	—											
155	160	—	—											
160	165	—	—											
165	170	—	—											
170	175	—	—											
175	180	—	—											
180	185	—	—											
185	190	—	—											
190	195	—	—											
195	200	—	—											
200	205	—	—											
205	210	—	—											
210	215	—	—											
215	220	—	—											
220	225	—	—											
225	230	—	—											
230	235	—	—											

D. D. Hole 79-3

Working Place *HAINES*

D D Hole No. *79-3*

Lat.

Bearing *090'*

Dep.

Angle *- 45'*

Elev.

Depth *782'*

Footage From	To	1 - 32	1 - 16	1 - 8	3 - 16	1 - 4	5 - 16	3 - 8	7 - 16	1 - 2	Plus 1 - 2	Lost Core	%	REMARKS
35	240	—	—											
40	245	—	—											
45	250	—	—											
50	255	—	—											
55	260	—	—											
60	265	—	—											
65	270	—	—											
70	275	—	—											
75	280	—	—											
80	285	—	—											
85	290	—	—											
90	295	—	—											
95	300	—	—											
100	305	—	—											
105	310	—	—											
110	315		3	1	1	1								0 to core 15°, 20°, 90
115	320	—	—											
120	325	2												40° & 70°
125	330	4	1											20°, 55°, 60
130	335	2	1											20° & 30°
135	340	—	—											
140	345	1												40°
145	350	—	—											
150	355	—	—											
155	360	—	—											
160	365	—	—											
165	370	—	—											
170	375	—	—											
175	380	—	—											
180	385	—	—											
185	390	—	—											
190	395	—	—											
195	400	—	—											
200	405	—	—											
205	410	—	—											

D. D. Hole *79-3*

Working Place *HAINES*

D D Hole No. *79-3*

Lat.

Bearing *090°*

Dep.

Angle *-95°*

Elev.

Depth *982'*

Footage From	To	1 - 32	1 - 16	1 - 8	3 - 16	1 - 4	5 - 16	3 - 8	7 - 16	1 - 2	Plus 1 - 2	Lost Core	%	REMARKS
<i>410</i>	<i>415</i>	_____	_____											<i>trace talers slip</i>
<i>415</i>	<i>420</i>	_____	_____											<i>trace talers slip</i>
<i>420</i>	<i>425</i>	_____	_____											
<i>425</i>	<i>430</i>	_____	_____											
<i>430</i>	<i>435</i>	_____	_____											
<i>435</i>	<i>440</i>	_____	_____											
<i>440</i>	<i>445</i>	_____	_____											
<i>445</i>	<i>450</i>	_____	_____											
<i>450</i>	<i>455</i>	_____	_____											
<i>455</i>	<i>460</i>	_____	_____											
<i>460</i>	<i>465</i>	_____	_____											
<i>465</i>	<i>470</i>	_____	_____											
<i>470</i>	<i>475</i>	_____	_____											<i>trace talers slip</i>
<i>475</i>	<i>480</i>	_____	_____											
<i>480</i>	<i>482</i>	_____	_____											

D. D. Hole *79-3*

PROPERTY HAINES

DDH NO. 70-3

LOCATION YUKON

FROM 310 TO 335

REMARKS _____

BY ML DATE 27 JUNE 79

VEIN WIDTH	NO. VEINS	NO. 16THS	NO. 16THS	CONV. FACTOR	NO. OZ. IN 1 LB	NO. POINTS
1/2						
				X	=	X 100
7/16						
3/8						
5/16						
1/4	1	4	4	X 3.55 =		X 40 142
3/16	1	3				
1/8	1	2	5	X 7.47 =		X 10 44.4
1/16	5	5				
1/32	8	4	9	X 8.0 =		X 1 8
TOTALS			18	15.99		194.4

FIBRE VALUE/TON
 TOTAL POINTS = 194.4
 \$/TON FIBRE 19.57 = \$ 150.63

PERCENT FIBRE
 SAMPLE LENGTH
 OR
 CORE RECOVERED 25 FT.
 UNCORRECTED
 $\frac{16^{th} \text{ FIBRE} \times 100}{\text{SAMP FT} \times 192} = \frac{18 \times 100}{25 \times 192} =$ 0.37%
 CORRECTED
 $\frac{\% \text{ FIBRE}}{\text{UPGRADE FACTOR}} =$ 0.52%

ROCK VALUE/TON
 1952 PRICE
 $\frac{\% \text{ FIBRE}}{0.52} \times \frac{\text{FIBRE VALUE/TON}}{150.63} =$ \$ 0.78
 PRESENT PRICE
 $\frac{\text{ROCK VALUE/TON}}{2.61} \times \frac{\text{FACTOR}}{3.33} =$ \$ 2.61
 2.61 x 1.40 = 3.65

CALCULATIONS 7800

CORE MILL RESULTS
 QST _____
 FIBRE VALUE/TON _____
 PERCENT FIBRE _____
 ROCK VALUE/TON _____

PROPERTY HAINES

DDH NO. 79-3

LOCATION YUKON

FROM 62.3 TO 482

REMARKS _____

BY ML DATE 27 JUNE 79

VEIN WIDTH	NO. VEINS	NO. 16THS	NO. 16THS	CONV. FACTOR	NO. OZ. IN 1 LB	NO. POINTS
1/2				X	=	X 100
7/16						
3/8						
5/16						
1/4	1	4	4	X 3.55	=	X 40 142
3/16	1	3				
1/8	1	2	5	X 4.44	=	X 10 44.4
1/16	5	5				
1/32	9	4	9	X 8.0	=	X 1 8
TOTALS			18	15.99		194.4

FIBRE VALUE/TON
 TOTAL POINTS = 194.4
 \$/TON FIBRE 19.57 = \$150.63

PERCENT FIBRE
 SAMPLE LENGTH OR CORE RECOVERED 419.7 FT.
 UNCORRECTED

$$\frac{16^{th} \text{ FIBRE} \times 100}{\text{SAMP FT} \times 192} = \frac{18 \times 100}{419.7 \times 192} = \text{0.02} \%$$

 CORRECTED

$$\frac{\% \text{ FIBRE}}{\text{UPGRADE FACTOR}} = \frac{0.02}{1.4} = \text{0.03} \%$$

ROCK VALUE/TON
 1952 PRICE

$$\frac{\% \text{ FIBRE}}{\text{FIBRE VALUE/TON}} = \frac{0.03}{150.63} = \text{0.04}$$

 PRESENT PRICE

$$\frac{\text{ROCK VALUE/TON}}{\text{FACTOR}} = \frac{0.04}{3.33} = \text{0.15}$$

CALCULATIONS 79094.4

CORE MILL RESULTS
 QST _____
 FIBRE VALUE/TON _____
 PERCENT FIBRE _____
 ROCK VALUE/TON _____

CLAIM NO. BEX 1# ASBESTOS 1**DIAMOND DRILL RECORD**PROPERTY HAINESHOLE NO. 72-4 ①

091314

LATITUDE ELEVATION BEARING 050° DEPTH 605' STARTED 13 JUNE '79 COMPLETED 16 JUNE '79DEPARTURE SECTION DIP -45' DRILLED BY J.T. THOMAS LOGGED BY M. LANCASTER

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
						CORE RECOVERED			
0-117	<u>Overburden</u>		117	120	3	3.0			
			120	125	5	4.7			
117-161	<u>Serpentinized Peridotite and High Pyroxene Peridotite</u>		125	130		4.3			
	<u>No fiber</u>		130	135		5.0			
	<u>The rock is mottled in color, basically being</u>		135	140					
	<u>or pale green with irregular shaped greyish green</u>		140	145					
	<u>patches. Grain size varies from $\frac{1}{8}$" to $\frac{1}{2}$"</u>		145	150					
	<u>Serpentinization is weak throughout the rock on a</u>		150	155					
	<u>whole but is moderate to strong along fractures.</u>		155	160					
	<u>The irregular patches of greyish green olivine have</u>		160	165					
	<u>moderate to strong serpentinization. Magnetite</u>		165	170					
	<u>as very fine grained disseminated specks associated</u>		170	175					
	<u>with olivine grains 2-7% of the rock. Random</u>		175	180					
	<u>oriented fracturing is very weak with a 1'-5'</u>		180	185					
	<u>spacing. A few fractures exhibit minor chloritic</u>		185	190					
	<u>alteration and as low in the section some fractures</u>		190	195					
	<u>contain creamy yellow green talc. Pyroxene</u>		195	200					
	<u>crystals are pale green to dark green in color,</u>		200	205					
	<u>from greater than 40% of the rock and are</u>		205	210					
	<u>not serpentinized.</u>		210	215					

CLAIM NO.

DIAMOND DRILL RECORD

PROPERTY *HAINES*HOLE NO. *79-4* ②

LATITUDE ELEVATION BEARING DEPTH STARTED COMPLETED

DEPARTURE SECTION DIP DRILLED BY LOGGED BY

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
						core recovered			
	<i>122'-123.5' Broken rock</i>		<i>215</i>	<i>220</i>	<i>5</i>	<i>5.0</i>			
	<i>125'-128.5' " "</i>		<i>220</i>	<i>225</i>					
			<i>225</i>	<i>230</i>					
<i>161-197.5</i>	<i>Pyroxenite and minor High Pyroxene Peridotite</i>		<i>230</i>	<i>235</i>					
	<i>No fiber</i>		<i>235</i>	<i>240</i>					
	<i>The rock is mottled in coloration, basically</i>		<i>240</i>	<i>245</i>					
	<i>being green in color with irregular shaped greyish</i>		<i>245</i>	<i>250</i>					
	<i>green patches. Grain size ranges from $\frac{1}{8}$" - $\frac{1}{2}$".</i>		<i>250</i>	<i>255</i>					
	<i>Serpentinization is weak throughout the rock and is</i>		<i>255</i>	<i>260</i>					
	<i>moderate to strong along fractures. The few small</i>		<i>260</i>	<i>265</i>					
	<i>patches of olivine have been moderately to strongly</i>		<i>265</i>	<i>270</i>					
	<i>serpentinized. Magnetite, associated with</i>		<i>270</i>	<i>275</i>					
	<i>olivine forms much less than 1% of the rock.</i>		<i>275</i>	<i>280</i>					
	<i>Random oriented fracturing is very weak, with</i>		<i>280</i>	<i>285</i>					
	<i>a 1-5' spacing. Fractures may contain a</i>		<i>285</i>	<i>290</i>					
	<i>coatings of serpentine, talc or calcite.</i>		<i>290</i>	<i>295</i>					
	<i>Pyroxene crystals are pale green to dark green</i>		<i>295</i>	<i>300</i>					
	<i>in color and form greater than 80% of the</i>		<i>300</i>	<i>305</i>					
	<i>rock. These crystals are not serpentinized</i>		<i>305</i>	<i>310</i>					
	<i>161' Contact is gradational</i>		<i>310</i>	<i>315</i>					

CLAIM NO.

DIAMOND DRILL RECORDPROPERTY HAINESHOLE NO. 79-4 (3)

LATITUDE ELEVATION BEARING DEPTH STARTED COMPLETED

DEPARTURE SECTION DIP DRILLED BY LOGGED BY

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
						core recovered			
	165.75'-167' Pyroxenite Dyke @ 20° to core		315	320	5	5.0			
	170.7'-171.7' Serpentinized Granite @ 33° to core		320	325					
	176.3'-177.5' White crystalline calcite with 1" fault gouge at 177.5'		325	330					
			330	335					
	181.7'-182.7' Serpentinized Granite @ 25° core area		335	340					
			340	345					
194.5'-217.5'	<u>Pyroxenite</u>		345	350					
	No fiber		350	355					
	The rock is medium green in color and is composed entirely of pyroxene crystals ranging from 1"-6" in size. Serpentinization is weak to absent throughout the rock as a whole and is weak to moderate along fractures. Magnetite is essentially absent. Random oriented fracturing is very weak with a 1'-5' spacing		355	360					
			360	365					
			365	370					
			370	375					
			375	380					
			380	385					
			385	390					
			390	395					
217.5'-223.5'	<u>Serpentinized Peridotite and High Pyroxene Peridotite</u>		395	400					
	as for 117'-161'		400	405					
	223.5' Contact @ 25° to core		405	410					
			410	415					

CLAIM NO.

DIAMOND DRILL RECORD

PROPERTY HAINESHOLE NO. 79-4 (4)

LATITUDE ELEVATION BEARING DEPTH STARTED COMPLETED

DEPARTURE SECTION DIP DRILLED BY LOGGED BY

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
						core recovered			
223.5 - 310	<u>Pyroxenite and minor High Pyroxene Peridotite</u>		415	420	5	5.0			
	as for 161'-194.5' & 194.5' - 217.5'		420	425					
	239.5' 2 1/2" Grey crystalline calcite @ 50° to core		425	430					
	240' 2 1/2" Serpentinized Garnite @ 40° " "		430	435					
	241.5' 4" Intense (100%) serpentine, slightly talc. Minor disseminated calcite.		435	440					
	Central 1 1/2" is white tremolite.		445	450					
	Fracture @ 85° to core axis		450	455					
	244' 1" Serpentinized Garnite @ 15° to core		455	460					
	261.5' 1/2" " " @ 20° " "		460	465					
	275' 2" veinlet of calcite, serpentine and talc		465	470					
	@ 80° to core		470	475					
	275.5' 5" veinlet of calcite, serpentine and talc		475	480					
	with a trace of pyrite and magnetite		480	485					
	285.5' 2 1/2" veinlet of serpentine, calcite, talc		485	490					
	and pseudo cross fiber @ 85° to core		490	495					
	289' 2" veinlet of serpentine, calcite, talc		495	500					
	and pseudo cross fiber @ 85° to core		500	505					
	These veinlets are banded parallel		505	510					
	to vein wall. Serpentine has a silvery sheen		510	515					

CLAIM NO.

DIAMOND DRILL RECORDPROPERTY HAINESHOLE NO. 79-4 ③

LATITUDE

ELEVATION

BEARING

DEPTH

STARTED

COMPLETED

DEPARTURE

SECTION

DIP

DRILLED BY

LOGGED BY

DEPTH FEET	FORMATION	SAMPLE NO.	FROM	TO	WIDTH	ASSAYS			
						core recovered			
	290' With increasing depth in hole, the rock becomes more fractured. Serpentinization along fractures becomes intense. Serpentine talc and calcite common along fractures		515	520	5	5.0			
			520	525					
			525	530					
			530	535					
	312.5' 1" calcite veining @ 80° to core		535	540					
	313.7' 6" zone narrow calcite veins @ 45° to core		540	545					
			545	550					
	319' Contact @ 30° to core axis		550	555					
			555	560					
319-326.5	<u>Serpentinized Granite</u>		560	565					
	No fiber		565	570					
	The rock is uniform in character, fine grained and basically blackish green in color. Pervasive serpentinization is moderate with serpentinization along fractures intense. Magnetite (3-5%) occurs as very fine grained disseminated spec. Random oriented fracturing is blocky with fractures containing hairline serpentine, magnetite and calcite. Silvery grey to pale green pyroxene crystals $\frac{1}{16}$ " - $\frac{1}{8}$ " in diameter form		570	575					
			575	580					
			580	585					
			585	590					
			590	595					
			595	600					
			600	605		5.25			

Working Place HAINES

D D Hole No. 70-4

Lat.

Bearing 050°

Dep.

Angle -95°

Elev.

Depth 605'

Footage From	To	1 - 32	1 - 16	1 - 8	3 - 16	1 - 4	5 - 16	3 - 8	7 - 16	1 - 2	Plus 1 - 2	Lost Core	%	REMARK
117	120	_____												
120	125	_____												
125	130	_____												
130	135	_____												
135	140	_____												
140	145	_____												
145	150	_____												
150	155	_____												
155	160	_____												
160	165	_____												
165	170	_____												
170	175	_____												
175	180	_____												
180	185	_____												
185	190	_____												
190	195	_____												
195	200	_____												
200	205	_____												
205	210	_____												
210	215	_____												
215	220	_____												
220	225	_____												
225	230	_____												
230	235	_____												
235	240	_____												
240	245	_____												
245	250	_____												
250	255	_____												
255	260	_____												
260	265	_____												
265	270	_____												
270	275	_____												
275	280	_____												
280	285	_____												
285	290	_____												

D. D. Hole 70-4

Working PlaceH.A.I.N.E.S.....

D D Hole No.79-4.....

Lat.

Bearing050.....

Dep.

Angle-45.....

Elev.

Depth605.....

Footage		1 - 32	1 - 16	1 - 8	3 - 16	1 - 4	5 - 16	3 - 8	7 - 16	1 - 2	Plus 1 - 2	Lost Core	%	REMARK
From	To													
290	295													
295	300													
300	305													
305	310													
310	315													
315	320													
320	325													
325	330													
330	335													
335	340													
340	345													
345	350													
350	355													
355	360													
360	365													
365	370													
370	375													
375	380													
380	385													
385	390													
390	395													
395	400													
400	405													
405	410													
410	415													
415	420													
420	425													
425	430													
430	435													
435	440													
440	445													
445	450													
450	455													
455	460													
460	465													

D. D. Hole79-4.....

Working PlaceHAINES.....

D D Hole No.79-4.....

Lat.

Bearing050.....

Dep.

Angle-95.....

Elev.

Depth605.....

Footage From	Footage To	1 - 32	1 - 16	1 - 8	3 - 16	1 - 4	5 - 16	3 - 8	7 - 16	1 - 2	Plus 1 - 2	Lost Core	%	REMARKS
465	470	—	—											
470	475	—	—											
475	480	—	—											
480	485	—	—											
485	490	—	—											
490	495	—	—											
495	500	—	—											
500	505	—	—											
505	510	—	—											
510	515	—	—											
515	520	—	—											
520	525	—	—											
525	530	—	—											
530	535	—	—											
535	540	—	—											
540	545	—	1											45° to cor
545	550	—	—											
550	555	—	—											
555	560	—	—											
560	565	—	—											
565	570	—	—											
570	575	—	—											
575	580	—	—											
580	585	—	—											
585	590	—	—											
590	595	—	—											
595	600	—	—											
600	605	—	—											

D. D. Hole79-4.....

PROPERTY HAINES

DDH NO. 79-4

LOCATION YUKON

FROM 117 TO 605

REMARKS _____

BY ML DATE 27 JUNE 79

VEIN WIDTH	NO. VEINS	NO. 16THS	NO. 16THS	CONV. FACTOR	NO. OZ. IN 1 LB	NO. POINTS
1/2				X	=	X 100
7/16						
3/8						
5/16						
1/4				Y	=	X 40
3/16						
1/8				X	=	X 10
1/16	1	1				
1/32						
TOTALS			1	X 16	=	X 16

FIBRE VALUE/TON
 TOTAL POINTS = 16
 \$/TON FIBRE 1957 = \$ 29.20

PERCENT FIBRE
 SAMPLE LENGTH OR CORE RECOVERED 488 FT.
 UNCORRECTED
 $\frac{16^{th} \text{ FIBRE} \times 100}{\text{SAMP FT} \times 192} = \frac{1 \times 100}{487.25 \times 192} =$ 0.001
 % FIBRE X UPGRADE FACTOR = CORRECTED

ROCK VALUE/TON
 19__ PRICE
 % FIBRE X FIBRE VALUE/TON = \$
 PRESENT PRICE
 ROCK VALUE/TON X FACTOR = \$ 0.00

CALCULATIONS 93552

CORE MILL RESULTS
 QST _____
 FIBRE VALUE/TON _____
 PERCENT FIBRE _____
 ROCK VALUE/TON _____



ASARCO		Vancouver	
DIAMOND DRILL HOLE LOCATION			
<i>0813/4</i>			
Drawn by	Date	N.T.S.	Scale
M.F.L.	July '79	115A11/14	1"=200'