



Government of Canada

Gouvernement du Canada

MEMORANDUM

NOTE DE SERVICE

CONFIDENTIAL

TO
A

Supervising Mining Recorder

FROM
DE

Mining Recorder - Whitehorse

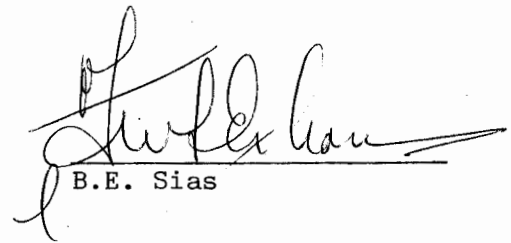
SUBJECT
OBJET


Herewith your copy of Diamond Drill Logs and support data submitted as assessment work.

105-D-10	WHITEHORSE COPPER MINES LTD	JIM 33
✓		SUE 3.
✓		JIM 16
✓		JIM 36.

Certificates of Work will be forwarded when completed.

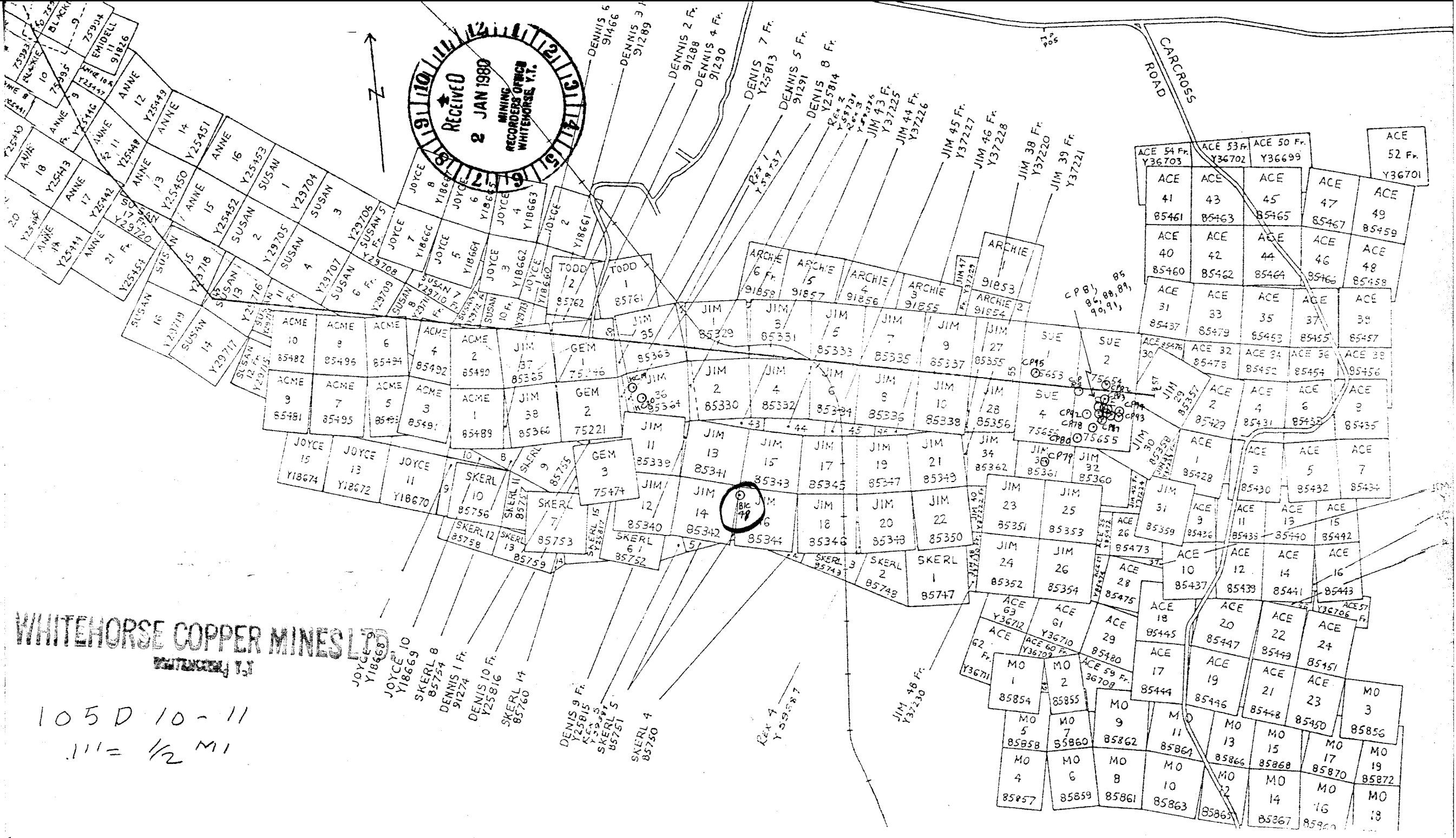
C.C. Geology Section
Attn: M. Marchand


B.E. Sias

	
SECURITY - CLASSIFICATION - DE SÉCURITÉ	JAN 10 1980
OUR FILE - N/RÉFÉRENCE	WHITEHORSE Yukon Territory
YOUR FILE - V/RÉFÉRENCE	340-17-6
DATE	9/1/80

021121

RECEIVED
 2 JAN 1980
 MINING
 RECORDERS OFFICE
 WHITEHORSE, V.T.



WHITEHORSE COPPER MINES LTD
 WHITEHORSE, V.T.

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105-D-10

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SUB 3

75655

Cowley Creek AREA

APRIL 1979

4 HOLES - 1529 FT

WHITENORSE COPPER MINES LTD

105-D-10

Jim 33

85361

WHITENORSE COPPER MINES LTD

MARCH 1979

1 HOLE 136 FT

Cowley^{Creek} AREA

105-D-10

Jim 36

85364

Cowley Creek Area ↑

MAY | JUNE 1979

WHITENORSE COPPER MINES LTD

2 HOLES - 762 FT.

105-D-10

Jim 16

85344

Cowley Creek Area ↑

MAY 1979

WHITENORSE COPPER MINES LTD

1 HOLE - 434'

01121

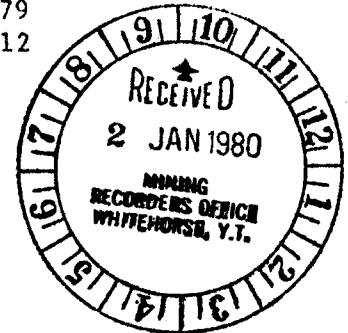
E. Caron Diamond Drilling Limited

CONTRACT DIAMOND DRILLING

HEAD OFFICE:
7 ROUNDEL ROAD
WHITEHORSE, Y.T. Y1A-3H3
PHONE 668-2424 - 668-2425
TELEX 036-8-337

VANCOUVER OFFICE:
XXXXXX
VANCOUVER, B.C. V6C 2A9
XXXXXX

April 2, 1979
Invoice #-512



IN ACCOUNT WITH:

Whitehorse Copper Mines Ltd.
P.O. Box 4280,
Whitehorse, Y.T.
Y1A 3T3

Drilling Charges March 21 - 31/79
CP-78/60/BQ

<u>Moving</u>			
36 man hrs.	@ \$14.50 per hr.	=	\$ 522.00
<u>Truck Hours</u>			
4 machine hrs.	@ \$25.00 per hr.	=	\$100.00
4 man hrs.	@ \$14.50 per hr.	=	\$ 58.00
5 cat hrs.	@ \$30.00 per hr.	=	\$150.00
5 man hrs.	@ \$14.50 per hr.	=	<u>\$ 72.50</u>
<u>Reaming Cave</u>			
4 man hrs.	@ \$14.50 per hr.	=	\$ 58.00
2 machine hrs.	@ \$10.00 per hr.	=	<u>\$ 20.00</u>
<u>Casing</u>			
0 - 42 = 42 ft.	@ \$16.50 per ft.	=	\$ 693.00
<u>NW</u>			
0 - 20 = 20 ft.	@ \$17.50 per ft.	=	\$ 350.00
<u>Coring</u>			
42 - 428.5 = 386.5 ft.	@ \$14.00 per ft.	=	<u>\$5,411.00</u>
			\$ 7,434.50

CP-79/55/BQ

<u>Moving</u>			
22 man hrs.	@ \$14.50 per hr.	=	\$ 319.00
<u>Cat Time</u>			
7 machine hrs.	@ \$30.00 per hr.	=	\$210.00
7 man hrs.	@ \$14.50 per hr.	=	<u>\$101.50</u>
<u>Casing</u>			
0 - 20 = 20 ft.	@ \$16.50 per ft.	=	\$ 330.00
<u>Coring</u>			
20 - 136 = 116 ft.	@ \$14.00 per ft.	=	<u>\$1,624.00</u>
			\$ 2,584.50

CP-80/70/BQ

<u>Moving</u>			
5 man hrs.	@ \$14.50 per hr.	=	\$ 72.50
<u>Water Line</u>			
2 man hrs.	@ \$14.50 per hr.	=	\$ 29.00
<u>Cat Time</u>			
4 machine hrs.	@ \$30.00 per hr.	=	\$120.00
4 man hrs.	@ \$14.50 per hr.	=	<u>\$ 58.00</u>
			\$ 178.00

01121

E. Caron Diamond Drilling Limited

HEAD OFFICE:
7 ROUND ROAD
WHITEHORSE, Y.T. Y1A-3H3
PHONE 668-2424 - 668-2425
TELEX 036-8-337

CONTRACT DIAMOND DRILLING

VANCOUVER OFFICE:
1000 WEST 10TH STREET
VANCOUVER, B.C. V6C 2A9
PHONE 682-1200

April 30, 1979
Invoice #-523

IN ACCOUNT WITH:

Whitehorse Copper Mines Ltd.,
P. O. Box 4280,
Whitehorse, Y. T.
Y1A 3T3



Drilling Charges April 16 to 27, 1979: (Cowley Park)

Hole: CP-85/60/BQ

<u>Coring</u>				
292 - 500 = 208 ft.	@ \$14.00 per ft.	=	\$2,912.00	
500 - 507 = 7 ft.	@ \$15.25 per ft.	=	<u>\$ 106.75</u>	\$3,018.75 \$3,018.75

Hole: CP-86/60/BQ

<u>Moving</u>				
10 man hrs.	@ \$14.50 per hr.	=	\$ 145.00	
<u>Testing</u>				
2 man hrs.	@ \$14.50 per hr.	=	\$ 29.00	
1 machine hr.	@ \$10.00 per hr.	=	<u>\$ 10.00</u>	\$ 39.00
<u>Tractor Time</u>				
4 machine hrs.	@ \$30.00 per hr.	=	\$ 120.00	
<u>Casing</u>				
0 - 26 = 26 ft.	@ \$16.50 per ft.	=	\$ 429.00	
<u>Coring</u>				
26 - 316 = 290 ft.	@ \$14.00 per ft.	=	<u>\$4,060.00</u>	\$ 4,793.00 ✓

Hole: CP-87/60/BQ

<u>Moving</u>				
10 man hrs.	@ \$14.50 per hr.	=	\$ 145.00	
<u>Testing</u>				
4 man hrs.	@ \$14.50 per hr.	=	\$ 58.00	
2 machine hrs.	@ \$10.00 per hr.	=	<u>\$ 20.00</u>	\$ 78.00
<u>Tractor Time</u>				
4 machine hrs.	@ \$30.00 per hr.	=	\$ 120.00	
<u>Casing</u>				
0 - 28 = 28 ft.	@ \$16.50 per ft.	=	\$ 462.00	
<u>Coring</u>				
9 - 407 = 398 ft.	@ \$14.00 per ft.	=	<u>\$5,572.00</u>	\$ 6,377.00 ✓

E. Caron Diamond Drilling Limited

HEAD OFFICE:
7 ROUNDEL ROAD
WHITEHORSE, Y.T. Y1A-3H3
PHONE 668-2424 - 668-2425
TELEX 036-8-337

CONTRACT DIAMOND DRILLING

VANCOUVER OFFICE:
1125 BROAD STREET
VANCOUVER, B.C. V6C 2A9
PHONE 687-3604

Hole: CP-88/60/BQ

Moving

9 man hrs. @ \$14.50 per hr. = \$ 130.50

Testing

2 man hrs. @ \$14.50 per hr. = \$ 29.00

1 machine hr. @ \$10.00 per hr. = \$ 10.00 \$ 39.00

Tractor Time

4 machine hrs. @ \$30.00 per hr. = \$ 120.00

Casing

0 - 12 = 12 ft. @ \$16.50 per ft. = \$ 198.00

Coring

10 - 461 = 451 ft. @ \$14.00 per ft. = \$6,314.00 \$ 6,801.50 ✓

Hole: CP-89/60/BQ

Moving

10 man hrs. @ \$14.50 per hr. = \$ 145.00

Tractor Time

4 machine hrs. @ \$30.00 per hr. = \$ 120.00

Casing

0 - 24 - 24 ft. @ \$16.50 per ft. = \$ 396.00

Coring

9 - 345 = 336 ft. @ \$14.00 per ft. = \$4,704.00 \$ 5,365.00 ✓

Left in Hole CP-84

10 ft. BW casing @ \$69.30/10' length = \$ 69.30

1 BW casing shoe @ \$198.00 = \$ 198.00 \$ 267.30

+ 10% = \$ 26.73 \$ 294.03

Total Invoice \$26,649.28

\$21794'

1528/F+
or 15.11/F+ encl casing
CP84

Total CP
+ 30 HPK
4218'
cost 1585/F+
Total cost \$66,84793

TOTAL
CP 86, 87, 88, 89
23336.50
1529'

02/12)

E. Caron Diamond Drilling Limited

CONTRACT DIAMOND DRILLING

HEAD OFFICE:
7 ROUNDEL ROAD
WHITEHORSE, Y.T. Y1A-3H3
PHONE 668-2424 - 668-2425
TELEX 036-8-337

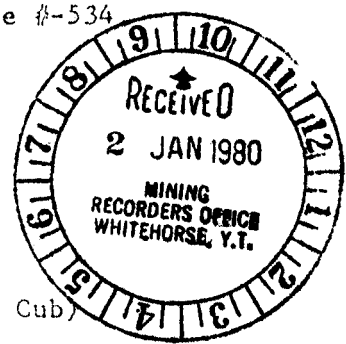
VANCOUVER OFFICE
1-423 HOWE STREET
VANCOUVER, B.C. V6C 2A9
PHONE 687-4634

May 30, 1979

Invoice #-534

IN ACCOUNT WITH:

Whitehorse Copper Mines Ltd.,
Box 4280,
Whitehorse, Y. T.
Y1A 3T3



Drilling Charges May 16 to 31, 1979:

(Cowley Park-Brown Cub)

Hole: CP-94/55/BQ

<u>Testing</u>				
2 man hrs.	@ \$14.50 per hr.	= \$	29.00	
1 machine hr.	@ \$10.00 per hr.	= \$	<u>10.00</u>	\$ 39.00
<u>Coring</u>				
82 - 380 = 298 ft.	@ \$14.00 per ft.	=		<u>\$4,172.00</u> \$ 4,211.00

Hole: CP-95/50/NQ

<u>Moving</u>				
14 man hrs.	@ \$14.50 per hr.	=		\$ 203.00
<u>Tractor Time</u>				
3 machine/man hrs.	@ \$44.50 per hr.	=		\$ 133.50
<u>Casing</u>				
0 - 14 = 14 ft.	@ \$16.50 per ft.	=		\$ 231.00
<u>Coring</u>				
14 - 132 = 118 ft.	@ \$14.00 per ft.	=		<u>\$1,652.00</u> \$ 2,219.50

Hole: BLC-49/60/NQ

<u>Moving</u>				
33 man hrs.	@ \$14.50 per hr.	=		\$ 478.50
<u>Testing</u>				
4 man hrs.	@ \$14.50 per hr.	= \$	58.00	
2 machine hrs.	@ \$10.00 per hr.	= \$	<u>20.00</u>	\$ 78.00
<u>Truck</u>				
5 machine hrs.	@ \$25.00 per hr.	=		\$ 125.00
<u>Tractor Time</u>				
11 machine/man hrs.	@ \$44.50 per hr.	=		\$ 489.50
<u>Casing</u>				
0 - 26 = 26 ft.	@ \$20.50 per ft.	= \$	533.00	
28 - 54 = 28 ft.	@ \$17.50 per ft.	= \$	<u>490.00</u>	\$1,023.00
<u>Coring</u>				
54 - 434 = 380 ft.	@ \$15.75 per ft.	=		<u>\$5,985.00</u> \$ 8,179.00

E. Caron Diamond Drilling Limited

CONTRACT DIAMOND DRILLING

HEAD OFFICE:
7 ROUNDEL ROAD
WHITEHORSE, Y.T. Y1A-3H3
PHONE 668-2424 - 668-2425
TELEX 036-8-337

VANCOUVER OFFICE
1200 BAY STREET
VANCOUVER, B.C. V6C 2K4
PHONE 682-3400

June 15, 1979

Invoice #-546

IN ACCOUNT WITH:

Whitehorse Copper Mines Ltd.,
Box 4280,
Whitehorse, Y. T.
Y1A 3T3



Drilling Charges June 1 to 15, 1979:

Hole: KC-20/55/NQ

<u>Casing</u>				
40 - 42 = 2 ft.	@ \$17.50 per ft.	=	\$ 35.00	
<u>Coring</u>				
69 - 324 = 255 ft.	@ \$15.75 per ft.	=	\$4,016.25	\$ 4,051.25

Hole: NS-5/70/BQ

<u>Moving</u>				
40 man hrs.	@ \$14.50 per hr.	=	\$ 580.00	
<u>Waterline</u>				
2 man hrs.	@ \$14.50 per hr.	=	\$ 29.00	
<u>Testing</u>				
2 man hrs.	@ \$14.50 per hr.	=	\$ 29.00	
1 machine hr.	@ \$10.00 per hr.	=	\$ 10.00	\$ 39.00
<u>Tractor Time</u>				
8 machine/man hrs.	@ \$44.50 per hr.	=	\$ 356.00	
<u>Casing</u>				
0 - 25 = 25 ft.	@ \$16.50 per hr.	=	\$ 412.50	
<u>Coring</u>				
23 - 500 = 477 ft.	@ \$14.00 per ft.	=	\$6,678.00	
500 - 582 = 82 ft.	@ \$15.25 per ft.	=	\$1,250.50	\$7,928.50 \$ 9,345.00

Hole: AC-44/55/BQ

<u>Moving</u>				
16 man hrs.	@ \$14.50 per hr.	=	\$ 232.00	
<u>Waterline</u>				
6 man hrs.	@ \$14.50 per hr.	=	\$ 87.00	
<u>Casing</u>				
0 - 16 = 16 ft.	@ \$17.50 per ft.	=	\$ 280.00	
0 - 48 = 48 ft.	@ \$16.50 per ft.	=	\$ 792.00	\$1,072.00
<u>Coring</u>				
46 - 500 = 454 ft.	@ \$14.00 per ft.	=	\$6,356.00	
500 - 530 = 30 ft.	@ \$15.25 per ft.	=	\$ 457.50	\$6,813.50 \$ 8,204.50

Total Invoice

\$21,600.75

E. Caron Diamond Drilling Limited

CONTRACT DIAMOND DRILLING

HEAD OFFICE:
7 ROUNDEL ROAD
WHITEHORSE, Y.T. Y1A-3H3
PHONE 668-2424 - 668-2425
TELEX 036-8-337

VANCOUVER OFFICE:
13426 HOWE STREET
VANCOUVER, B.C. V6O 1E9
PHONE 467-4677

<u>Hole: KC-19/60/NQ</u>			
<u>Moving</u>		=	
12 man hrs.	@ \$14.50 per hr.	=	\$ 174.00
<u>Tractor Time</u>		=	
7 machine/man hrs.	@ \$44.50 per hr.	=	\$ 311.50
<u>Casing</u>		=	
0 - 4 = 4 ft.	@ \$20.50 per ft.	= \$	82.00
4 - 24 = 20 ft.	@ \$17.50 per ft.	= \$	<u>350.00</u>
			\$ 432.00
<u>Coring</u>		=	
24 - 438 = 414 ft.	@ \$15.75 per ft.	=	<u>\$6,520.50</u>
			\$ 7,438.00
 <u>Hole: KC-20/55/NQ</u>			
<u>Moving</u>		=	
12 man hrs.	@ \$14.50 per hr.	=	\$ 174.00
<u>Tractor Time</u>		=	
4 machine/man hrs.	@ \$44.50 per hr.	=	\$ 178.00
<u>Casing</u>		=	
0 - 10 = 10 ft.	@ \$20.50 per ft.	= \$	205.00
8 - 40 = 32 ft.	@ \$17.50 per ft.	= \$	<u>560.00</u>
			\$ 765.00
<u>Coring</u>		=	
40 - 69 = 29 ft.	@ \$15.75 per ft.	=	<u>\$ 456.75</u>
			\$ 1,573.75
Total Invoice			<u>\$23,621.25</u>

530-816-9
Cowley Park \$6977

Bar cube \$16,644.25

532-816-9

K C 19-20 9,011.15

Invoice #546

KC20

4051.25

TOTAL

KC19 & 20

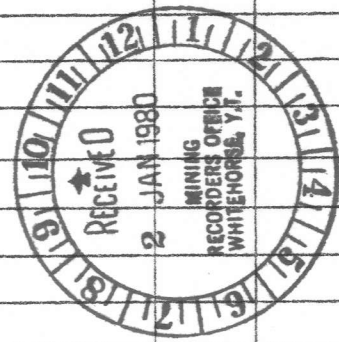
\$13,063.00

Whitehorse Copper Mines Ltd.

MINING DIVISION - WHITEHORSE
YUKON TERRITORY

PROPERTY <u>KODIAK CUB</u>	Claim No. <u>BEAR CUB</u>	Strike <u>5</u>	Lat. <u>3092N</u>	Hole No. <u>15C19</u>
Date <u>4/7 / 19 79</u>	Section No. <u>1125E</u>	Dip <u>-62°</u>	Dep. <u>1125E</u>	Total Depth <u>438'</u>
Logged By <u>A. HURFEAU</u>	Plan No. _____	Level <u>SURFACE</u>	Elev. <u>2677'</u>	Page No. <u>1 of 6</u>

FOOTAGE			ROCK CLASSIFICATION Epid Diop Garn Serp Qtz Sil Actino Tremo Chlo Crystalline Shearing Veins Fracturing Foliation Grain Size Texture	MINERALIZATION				ASSAY DATA					
From	To			TYPE	%	Sample No	Width	Recov	%Cu	%Fe	Moly	Au/Ag	Insol
0	12	0b											
12	98.6	8	1a medium grained white & grey moderately fract'd hbd & +2 diorite hbdc largely alt'd to sericite & grey actinolite, Serpentine & Ca on fract's										
		2	V broken from 97.4'										
		9ab	grey fine grained lyke lower Ct intrg @ 40' occ xenoliths dioritized sed 78'-82'										
98.6	100.3	3	9af/2a contact of skarn & alt'd diorite apparently along core, V broken										
100.3	110.6	1	5/2deg, sections massive black skarn with sections pale green skarn partially replaced by Serpentine & Magnetite dissem & streaks bo associated										



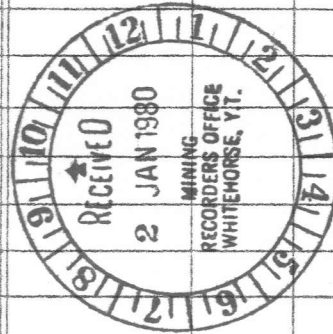
WHITEHORSE COPPER MINES		INITIALS
PLOTTED 40' SECTIONS		✓
PLOTTED 40' ASSAY PLANS		/
PLOTTED 40' GEO. PLANS		/
ASSAYS CHECKED		#
NTXN. GRADE CHECKED		#

Whitehorse Copper Mines Ltd.

MINING DIVISION - WHITEHORSE
YUKON TERRITORY

PROPERTY <u>KODIAK CUB</u>	Claim No. _____	Strike <u>S</u>	Lat. <u>2995N</u>	Hole No. <u>15C20</u>
Date <u>12/7/</u> 19 <u>79</u>	Section No. <u>1450E</u>	Dip <u>-55° S</u>	Dep. <u>1450E</u>	Total Depth <u>324'</u>
Logged By <u>A. HUREAU</u>	Plan No. _____	Level <u>SURFACE</u>	Elev. _____	Page No. <u>1 of 6</u>

FOOTAGE		ROCK CLASSIFICATION Epid Diop Garn Serp Qtz Sil Actino Tremo Chlo Crystalline Shearing Veins Fracturing Foliation Grain Size Texture	MINERALIZATION		ASSAY DATA							
From	To		TYPE	%	Sample No	Width	Recov	%Cu	%Fe	Moly	Au/Ag	Insol
0	41	0b over burden										
41	46.1	8a mafic (60%) hbd diorite mafic partially chloritized fields weakly saussuritized broken										
46.1	48	9ab green aphanitic dyke with few yldr crystals to 3mm euhedral, broken at lower ct										
48	49.1	3g red siltstone, interstitial fract filling ca lower ct along core										
49.1	53.1	8a Qtz & diorite 10% mafic hbd Qtz to green actinolite & chlorite Qtz & K spav flooding along core, fields euhedral grains to .7cm saussuritized toward end, 1/2" basic 9b dyke @ 15° @ 51.7' Specs F9 dx 14 8a	py	2 1/2								



WHITEHORSE COPPER MINES	INITIALS
PLOTTED 40' SECTIONS	✓
PLOTTED 40' ASSAY PLANS	/
PLOTTED 40' GEO. PLANS	/
ASSAYS CHECKED	#
INTXN GRADE CHECKED	#

WHITEHORSE COPPER MINES LTD.

P.O. BOX 4280
YUKON TERRITORY

Hole No. JIC20 Page No. 6 of 6

FOOTAGE		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION		ASSAY DATA							
From	To		TYPE	%	Sample No.	Width	Recov.	% Cu	% Fe	Moly	Au/Ag	Insol
324		Hole ends										
		Samples 185-190			10148	5	5	.15				.03
		190-195			49			.03				.02
		195-200			50			.03				.02
		200-205			1	5	5	.06				.02
		205-209.8			2	4.8	4.8	.11				.03

FOOTAGE			ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION		ASSAY DATA						
From	To			TYPE	%	Sample No.	Width	Recov.	% Cu	% Fe	Moly	Au/Ag
144.8	165.0	5b	generally thinly laminated (90°) graphitic limestone 155 to 157 few thin. pale green a ltd siliceous buds lower ct 40°									
165.0	166.3	9ab	pale brown highly carbonated dyke upper ct 40°									
166.3	172	5b	pale grey thinly laminated (80°) graphitic limestone									
		9ab	168.2 - 168.5, 169.3 - 169.8, pale brown a ltd dykes as above									
172	199	9b	green basaltic dyke very broken numerous Ca filled shears									
199	202	≈	mud & rubble									
202	203	5b	white grey limestone									
203	205.8	≈	mud & rubble									
205.8	215.2	5/5b	white & grey limestone good bedding 70°-80° from 214'									
215.2	217.6	4g ≈	grey brown highly pyritic siltstone v broken	py	3							

FOOTAGE			ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION		ASSAY DATA						
From	To			TYPE	%	Sample No.	Width	Recov.	% Cu	% Fe	Moly	Au/Ag
273.5	286.2	5	grey white limestone, bedding 80° gradually destroyed from 280' remainder with patches and fract filling of serpentine									
286.2	289.9	96%	medium & dark green serpentized dyke, white felds & crystals to 3mm & serpentized crystals to 5mm, lower ct chilled 30° broken at upper ct									
289.9	291.5	5/35	white & grey limestone with patches & fract filling 35 bedding @ 291' 70°									
291.5	308.8	96%	dark green - black basic dyke anhedral white felds grains to 3mm, black Augite crystals to 7mm toward end									
		5/35	inclusionary serpd ls 299-300.3 (bedding 25°) & 304.7 to 307.6									
308.8	309.5	15C	mineralized serpentine magnetite shaly patches & blebs & streaks CP	CP	4							
309.5	311	35	sheared serpentine shaly few specs CP	CP	TV							

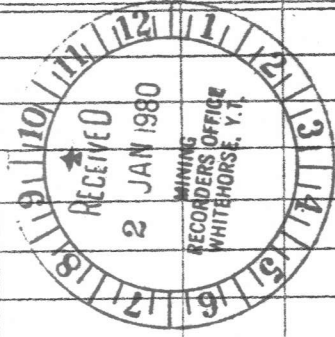
FOOTAGE			ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION		ASSAY DATA						
From	To			TYPE	%	Sample No.	Width	Recov.	%Cu	% Fe	Moly	Au/Ag
427	434	40	grey unbandied quartzite, may be dyke									
	434		Hole ends									
			Samples									
			255 - 261			10052	6	6	.05			.10
			308.8 - 309.5			53	.7	.7	5.04			.018 ✓ .66
			309.5 - 311			54	1.5	1.5	.42			.15
			314 - 315.6			10055	1.6	1.6	.89			.23

Whitehorse Copper Mines Ltd.

MINING DIVISION - WHITEHORSE
YUKON TERRITORY

PROPERTY <u>COWLEY PARK</u>	Claim No. <u>85361 Jim 33</u>	Strike <u>S</u>	Lot. <u>3050 N</u>	Hole No. <u>CP99</u>
Date <u>9/7/1979</u>	Section No. _____	Dip <u>-57°</u>	Dep. <u>68E</u>	Total Depth <u>136'</u>
Designed By <u>A. HUREAU</u>	Plan No. _____	Level <u>SURFACE</u>	Elev. <u>±2559</u>	Page No. <u>1 of 2</u>

FOOTAGE			ROCK CLASSIFICATION Epid Diop Garn Serp Qtz Sil Actino Tremo Chlo Crystalline Shearing Veins Fracturing Foliation Grain Size Texture	MINERALIZATION		ASSAY DATA							
From	To			TYPE	%	Sample No	Width	Recov	%Cu	%Fe	Moly	Au/Ag	Insol
0	20	0b											
20	89	8/10a	ma h bdo, (minor bio & chl) qtz diorite 25% mafics occ small incl dioritized sed, core broken 48-55' minor mineralization on fract										
90	91	8a	bleached zone with numerous small mafic nodules with local & serp feldspar mineralized										
91	113	8/10a	as above h bdo etc to 15m minor altu to bio & chl qtz - 15 spec veinlets @ 106' & 109' to 2cm										
113	115.8	8a	carb'd pyritic highly alt'd qtz diorite mafics & feldspar alt'd to pale green saussurite broken at cts.										



WHITEHORSE COPPER MINES

KZ.

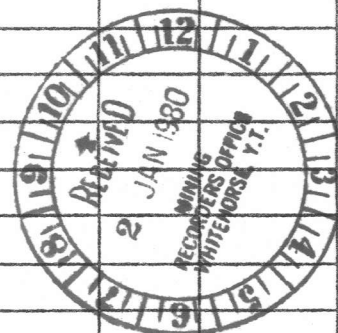
Whitehorse Copper Mines Ltd.

MINING DIVISION - WHITEHORSE
YUKON TERRITORY

@ 200' - 59°

PROPERTY <u>COWLEY PARK</u>	Claim No. _____	Strike <u>N</u>	Lot. <u>7539 N</u>	Mole No. <u>CP86</u>
Date <u>25/4/1979</u>	Section No. <u>82E</u>	Dip <u>-60</u>	Dep. <u>8200 E</u>	Total Depth <u>316'</u>
Logged By <u>A. HUREAU</u>	Plan No. _____	Level <u>SURFACE</u>	Elev. _____	Page No. <u>1 of 6</u>

FOOTAGE			ROCK CLASSIFICATION Epid Diop Garn Serp Qtz Sil Actino Tremo Chlo Crystalline Shearing Veins Fracturing Foliation Grain Size Texture	MINERALIZATION		ASSAY DATA							
From	To			TYPE	%	Sample No	Width	Recov	%Cu	%Fe	Moly	Au/Ag	Insol
0	10	0b	overburden					ACID TEST		200'		58°	
10	11	9b	basic dyke										
11	13.4	8a/3	grey green endo skarn / acc										
13.4	43	7g/3dgt	light - dark grey green meta sed, sections up to 3' of garnet diopside tremolite skarn, less skarn if red sections rusty, pyritic locally very micaceous, skarn - greyswacke contacts generally steep Irvt + g + c filled fract										
43	46.6	3dg	pale red green skarn lower contact sharp irregular @ 10°										
46.6	99	5	Pale grey limestone not banded. Vague bedding @ 30° @ 47' rusted & broken 50-51' garnet & diopside developed at										



WHITEHORSE COPPER MINES	
PLOTTED 40' SECTIONS	INITIALS <u>NR</u>
PLOTTED 40' ASSAY PLANS	/
PLOTTED 40' GEO. PLANS	/
ASSAYS CHECKED	#
INTXN. GRADE CHECKED	#

FOOTAGE			ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION		ASSAY DATA						
From	To			TYPE	%	Sample No.	Width	Recov.	% Cu	% Fe	Moly	Au/Ag
99	104.6	3	qd, & ca, limy garnet skarn, mn staining & minor serpentine, few fract's filled with tremolite & quartz, no sulphides seen									
104.6	106.8	2	vein very broken white, calcite quartz & wallactonite? xtals to 2cm. cts @ 5-10°									
106.8	112.5	4g	1/3 reddish grey, quartz biotite meta sed with development of some garnet and diopside, the latter mainly on fract's no sulphides seen									
112.5	119	3	grey to brown green skarn 5" qtz vein section @ 113.5 ca as interstitial & vug filling									
119	131.8	4g	1/3 grey green pyritic meta sed numerous ca filled fract's lower ct along core	py	1							
		3/2	qd, & qtz red, green skarn with dissem fg py tr cp, 121.8-123.5 calcite & vug @ 123.5	cp	TR							

FOOTAGE		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION		ASSAY DATA							
From	To		TYPE	%	Sample No.	Width	Recov.	%Cu	%Fe	Moly	Au/Ag	Insol
		Samples 126-131			9725	5	5	.22				
		- 136			16	5		.72				
		- 141			7	5		1.27				
		- 146			8	5		.28				
		- 151			9	5		.11				
		- 156			9730	5		.73				
		- 161			1	5		.22				
		- 166			2	5		.49				
		- 171			3	5	5	.15				
		- 176			4	5	5	.08				
		- 181			5			.02				
		- 186			6			.10				
		- 191			7			.39				
		- 196			8			.02				
		- 201			9			.52				
		- 206			9740			.02				
		- 211			9741		5	.05				
		- 216			2	5	5.0	.24				
		- 221			3		4.9	.53				
		- 226			4		5	.26				
		- 231			5		5	.11				
		- 236			6		5	.13				
		- 241			7			.09				
		- 246			8			.59				
		- 251			9			.26				
		- 256			9750	✓	5	.22				
		- 261			1		5	.13				
		- 266			2		5	.43				

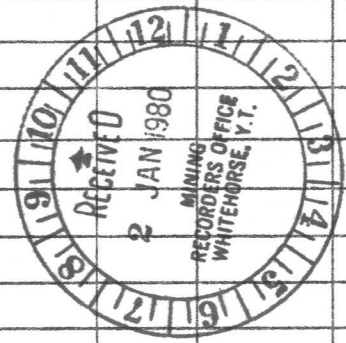
Whitehorse Copper Mines Ltd.

MINING DIVISION - WHITEHORSE
YUKON TERRITORY

Dip tests 100 60
300' 60°

PROPERTY <u>COWLEY PARK</u>	Claim No. _____	Strike <u>N</u>	Lat. <u>4294N</u>	Hole No. <u>CP87</u>
Date <u>5/5/1979</u>	Section No. <u>BZE</u>	Dip <u>-60</u>	Dep. <u>BZE</u>	Total Depth <u>707</u>
Logged By <u>A. HUREAU</u>	Plan No. _____	Level <u>SURFACE</u>	Elev. <u>± 2446</u>	Page No. <u>1 of 6</u>

FOOTAGE		ROCK CLASSIFICATION Epid Diop Garn Serp Qtz Sil Actino Tremo Chlo Crystalline Shearing Veins Fracturing Foliation Grain Size Texture	MINERALIZATION		ASSAY DATA							
From	To		TYPE	%	Sample No	Width	Recov	%Cu	%Fe	Moly	Au/Ag	Insol
0	21	OB	boulders from 9'									
21	27	8a	white-green alt'd diorite lchd, koolinized core blocky									
27	33.3	9b	grey green fine grained basic dyke few anhedral white feldspar grains as xenocrysts, numerous irregular Ca filled fract's, core blocky									
33.3	55.5	8a	alt'd quartz diorite, highly fractured, rusty on fract's, matrix alt'd to serpentine & ch lorite, becoming less alt'd toward end									
55.5	91.8	8a/b	Hbde Qtz diorite few sections with fresh hbbe mainly rlt'd, moderately fract'd, some quartz flooding & koolinization, sections rusty on fract's, pyritic from 80'									



WHITEHORSE COPPER MINES	
PIOTTED 40' SECTIONS	INITIAL <u>NR</u>
PIOTTED 40' ASSAY PLANS	/
PIOTTED 40' GEO. PLANS	/
ASSAYS CHECKED	#
INTXN. GRADE CHECKED	#

FOOTAGE		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION		ASSAY DATA							
From	To		TYPE	%	Sample No.	Width	Recov.	% Cu	% Fe	Moly	Au/Ag	Insol
320.5	324.5	4 2/3 grey green alt d sed rare specs CP	py CP	Cl Tr								
324.5	326.8	3 g e/8 red green dioritized sharn lead & vuggy from 325.5 streak CP @ 324.5'	CP	Tr								
326.8	407	8 Generally fresh h bde Qtz diorite, few Ca filled Fracts, 8a 375-383 well fracted, less mafic, mafic calcitized, py dissem & on fracts 377-378										
	407	Hole ends										
		103 - 113			9867	10	10				30	
		142 - 152			9866	10	10	.02			210 .03	
		228.5 - 237			9865	8.5	8.5	.31			20 .06	
		237 - 243.5			9864	6.5	6.5	.20			10 .02	
		320.5 - 326.8			9863	6.3	6.3	.36			.07	
		228.5 - 243.5				15	15	.30				

ppb / 10^{2/4}

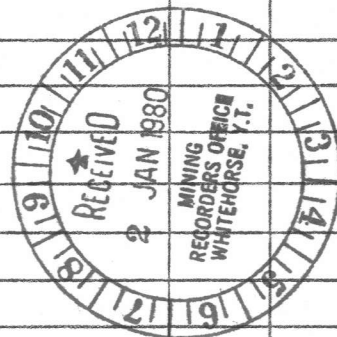
Whitehorse Copper Mines Ltd.

MINING DIVISION - WHITEHORSE
YUKON TERRITORY

DIP test
100' 60°

PROPERTY <u>Cowley Park</u>	Claim No. _____	Strike <u>N</u>	Lat. <u>4421N</u>	Hole No. <u>CP 88</u>
Date <u>28/4/1979</u>	Section No. _____	Dip <u>-60</u>	Dep. <u>BIE</u>	Total Depth <u>461'</u>
Logged By <u>A. HUREAU</u>	Plan No. _____	Level <u>SURFACE</u>	Elev. _____	Page No. <u>1 of 5</u>

FOOTAGE		ROCK CLASSIFICATION		MINERALIZATION		ASSAY DATA							
From	To			TYPE	%	Sample No	Width	Recov	%Cu	%Fe	Moly	Au/Ag	Insol
0	11	0b	over burden										
11	13.2	9a	dark grey porphyritic dyke										
13.2	19.2	8a/3	grey green andoskoru lower ct 90°										
19.2	39	39+	white red limy smar gneiss + xtal subhedral to 1cm										
39	62	3	(w)/5 bleached white limy smar n few garnets developed										
62	87.6	3	red bleached white smar nified limestone lower ct gradational over 1'										
87.6	100.5	5	white grey limestone weakly smar nified at lower ct										



WHITEHORSE COPPER MINES	
PLOTTED 40' SECTIONS	INITIALS ✓
PLOTTED 40' ASSAY PLANS	✓
PLOTTED 40' GEO. PLANS	✓
ASSAYS CHECKED	#
INTXN. GRADE CHECKED	#

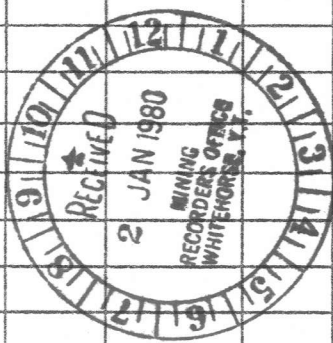
FOOTAGE			ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION		ASSAY DATA						
From	To			TYPE	%Cu	Sample No.	Width	Recov.	%Cu	%Fe	Moly	Au/Ag
100.5	151	9a	bt. Feldspar porphyry dyke euhedral Feldspar X-crystals to 2 cm in grey ground mass chilled at C+S lower C+40°									
151	151.5	3	d/4 green skarn 1" gtl & ca at dyke contact									
151.5	167.8	3	qe 15 red green skarn, limy locally chd & wuggy @ 153' 5" 3qe/4 bedding 40°, lost 8" shaded serpentine on fract no sulphides seen									
167.8	176	2	g minor e,s,m, red skarn 167.8 to 168.8 & 174.2 to 175 massive CP, some core ground in massive sulphide sections, patchy dissem & blebs CP patches & stringers coarse grained magnetite	CP	3							
176	211	2/3	d,e,s,m, to 193' rusty skarn heavily disseminated py 188.5 to 189.8 magnetite rich section patchy dissem cp, heavily disseminated coarse grained py good coring.	CP py	.5 10							

Whitehorse Copper Mines Ltd.

MINING DIVISION - WHITEHORSE
YUKON TERRITORY

PROPERTY <u>COWLEY PARK</u>	Claim No. _____	Strike <u>N</u>	Lat. <u>4572N</u>	Hole No. <u>CP89</u>
Date <u>2/5/79</u> 19__	Section No. <u>8100E</u>	Dip <u>-60</u>	Dep. <u>8100E</u>	Total Depth <u>345'</u>
Logged By <u>A. HUREAU</u>	Plan No. _____	Level <u>SURFACE</u>	Elev. _____	Page No. <u>1</u>

FOOTAGE			ROCK CLASSIFICATION Epid Diop Garn Serp Qtz Sil Actino Tremo Chlo Crystalline Shearing Veins Fracturing Foliation Grain Size Texture	MINERALIZATION				ASSAY DATA					
From	To			TYPE	%	Sample No	Width	Recov	%Cu	%Fe	Moly	Au/Ag	Insol
0	10.6	0b											
10.6	47.2	5	white grey recrystallized limestone vague bedding @ 30' 60°-70° lower ct + 20°										
47.2	68.3	3	egs/4g green red grey skarnified quartzite remnants of qtz in beds and patches to 1' good bedding 40° in qtz @ 49' some of epidote rtd to black serpentine giving rock black green mottled appearance in sections serpentine patches to 5mm, interstitial Ca										
68.3	97.8	3	ged, pale red green skarn excellent covering occ remnant of fg, rare spec cp, ba & ccte, lower ct + 30°, interstitial Ca & qtz xtals in vugs	cp, ba, ccte	0.1				<.1				



WHITEHORSE COPPER MINES	
PLOTTED 40' SECTIONS	✓
PLOTTED 40' ASSAY PLANS	//
PLOTTED 40' GEO. PLANS	//
ASSAYS CHECKED	#
INTXN. GRADE CHECKED	#

FOOTAGE		ROCK CLASSIFICATION Epid, Diop, Garn, Serp, Qtz/Sil, Actino, Tremo, Chlo, Crystalline, Shearing, Veins, Fracturing, Foliation, Grain Size, Texture	MINERALIZATION		ASSAY DATA							
From	To		TYPE	%Cu	Sample No.	Width	Recov.	%Cu	%Fe	Moly	Au/Ag	Insol
97.8	106.1	4g dark grey well bedded, Qtz mica meta sed, bedding gen 40°, subequal Feldspar grains + 0.3mm 101'-102', disseminated and occ streak of very fine grained cp, dissem Fg Py. lower ct 80°, being alt'd to pale green diap side (?) at lower end	Py cp	1 .75	9843	8.3	8.3	3.01			.45	
106.1	114.8	2 det, white pale green skarn, limey bedding 40° @ 108', serpentine bed 1cm developed along core along Ca filled fract, dissem & streaks ccte minor bo. 1 chd + vug 99y 111'	cc+e bo	1	9844	8.7	8.7	1.31			.39	
114.8	145.0	3 det, pale red, pale green, white skarn excellent coring, calcareous patchy, disseminated and occasional thin fract filling of chalcocite traces cp @ 121'	cc+cp tr					<.1				
145	155	2 det, Qtz, pale green white skarn disseminated & streaks ccte minor bo, cp as dissem & blebs with 1cm Qtz vein 148'-149', section 150.5 - 152 highly dissem ccte, in Qtz with 1 chd	cc+e, bo cp	1.5				1.44			.45	

NEW IMPERIAL MINES LIMITED
 MINING DIVISION - WHITEHORSE
 YUKON TERRITORY
 EXPLORATION ASSAY DATA

Form No. 2

Property COWLEY PARISH

Date 3/5/1979

CP88 SECT 81E

Page No. 1

Sample No.	Hole No.	Feature		Length	Rec.	% Cu	S. Amt M10	P/P Au/Ag ₂ S ₃	% Fe P/P(Cu)	Remarks
		from	to							
9805	CP88	167.8	171	3.2	3.2	9.35	.0045	10 ⁰ / _{.60}		
6			176	5	5	4.49	.0355	16 ⁰ / _{.28}		
7			181			1.62	.0095	30 ⁰ / _{.16}		
8			186			2.39	.0055	100 ⁰ / _{.18}		
9			191			1.22	.0080	20 ⁰ / _{.14}		
10			196			1.50	.0055	20 ⁰ / _{.14}		
11			201			1.27	.0065	50 ⁰ / _{.13}		
12			206			2.31	.0105	60 ⁰ / _{.19}		
13			211			3.08	.007	120 ⁰ / _{.21}		
14			216	5	5	.39	.230	30 ⁰ / _{.08}		
15		216	220	4	4	.75	.0595	50 ⁰ / _{.10}		
9816		247	257	10	10	.37	.0550	10 ⁰ / _{.05}		
17			267			.60	.0520	20 ⁰ / _{.06}		
18			277			.34	.0300	90 ⁰ / _{.07}		
19			287			1.36	.128	/	.11	
20			297			.62	.084	/	.06	
21			307	10	10	.40	.021	/	.05	
22			317.4	10.4	10.4	.37	.0235	/	.06	
				3.6		lyke				
9823		321	331	10	10	.45	.044	/	.06	
24			341	10	10	.24	.03	/	.04	
25			348	7	7	.74	.078	/	.09	
26			354.5	6.5	6.5	.66	.17	/	.09	
27		354.5	360	5.5	2.5	1.01	.308	/	.11	
28		360	365	5	5	.58	.12	/	.09	
29		365	373.3	8.3	8.3	.23	.007	/	.06	
30		373.3	381.5	8.2	8.2	.18	.007	/	.04	
31		381.5	386	4.5	4.5	.61	.028	/	.12	
32		386	391	5	5	.46	.12	/	.10	
33		391	396	5	5	.54	.04	/	.12	
34		396	401	5	5	.26	.19	/	.10	
35		401	408	7	7	.15	.14	/	.08	
36		408	410.9	2.9	2.9	.06		/	.06	
9837		410.9	416	5.1	5.1	.06		/	.05	
		167.8	211	43.2	43.2	2.76		0.21	119.32	SI
		167.8	220	52.2	52.2	2.38	.035		124.27	SI
		247	365	113	115	.57	.073		65573	8.620
		247	396	149	146	.51	.065		76.703	9.62
		365	396	31	31	.34	.034		1143	1.091
		167.8	365	197.2		.97			190273	
	Comp	167.8	220							

NEW IMPERIAL MINES LIMITED
MINING DIVISION - WHITEHORSE
YUKON TERRITORY
EXPLORATION ASSAY DATA

Form No. 2

Property KODJAK CUB

Date 8/7/1979

SECT 1125E

Page No. 1

Sample No.	Hole No.	Footage		Length	Rec.	% Cu	% Moly	Au/Ag %	% Fe	Remarks
		From	To							
10121	KC19	98.6	100.3	1.7	1.7	.06		.09		
22		100.3	105.3	5	5	1.29		.35		
23		105.3	110.6	5.3	5.3	1.07		.26		
		Limestone			7	-				
10124		117.6	123.6	6.0	6.0	2.24		.32		
25		123.6	128.6	5	5	.60		.18		
26		128.6	134.6	6.0	6.0	.12		.09		
27		164	169	5	5	.02		.07		
28		169	174	5	5	.33		.14		
29		174	179	5	5	.35		.13		
30		211	217	6	6	.02		.09		
31		217	222.3	5.3	5	.04		.09		
32		281.9	283.5	1.6	1.6	.03		.09		
33		297.7	299.4	1.7	1.7	1.56		.21		
34		299.4	302.5	3.1	3.1	.10		.13		
10135		302.5	308	5.5	5.5	.35		.12		
		100.3	123.6	23.3		1.09				
		100.3	128.6	28.3		1.00				
	Comp	"	"	"		1.38		^{285/114} .28		

NEW IMPERIAL MINES LIMITED

MINING DIVISION - WHITEHORSE
YUKON TERRITORY

Form No. 2

EXPLORATION ASSAY DATA

Property COWLEY PARK

Date 2/5 1977

SECTION 8100E

Page No. 1

Sample No.	Hole No.	Elevation		Length	Rec.	% Cu	% Moly 1970	Au/Ag	% Fe	Remarks
		from	to							
9841	CP89	76	86	10	10	.074		./		
9842		86	97.8	11.8	11.8	.09	.0005	./	.03	
9843		97.8	106.1	8.3	8.3	3.01	.007	./	.95	
9844		106.1	114.8	8.7	8.7	1.31		./	.39	
45		114.8	125	10.2	10.2	.05		./	.05	
46		125	135	10	10	.10		./	.08	
47		135	145.0	10.0	10.0	.07		./	.06	
48		145	155	10.0	10.0	1.97	.0045	./	.95	
49		155	165	10	10	.07	.0005	./	.03	
50		165	172	7	7	.49	.0005	./	.15	
1		172	182	10	10	.02	.056	./	.01	
9852		182	191	9	9	.01		./	.03	
53		191	202	11	11	.10		./	.03	
54		202	212	10	10	.07		./	.02	
55		212	224	12	12	.13		./	.03	
56		224	234	10	10	.03		./	.02	
57		234	249.9	10.9	10.9	.10	.0085	./	.03	
		dy 50		6.3	6.3	—		—		
9858		251.2	260	8.8	8.8	.30	.08	./	.05	
59		260	267.7	7.7	7.7	.47	.0035	./	.07	
60		267.7	277.7	10	10	.14	.0205	./	.03	
61		277.7	287.7	10	10	.11	.0065	./	.02	
9862		287.7	297.7	10	10	.30		./	.07	
		97.8	114.8	17'	17'	2.14				
		251.2	297.7	46.5	46.5	0.25				

Property COWLEY PARK

Date 25/4/1979

SECT 8200 E

Page No. 1

Sample No.	Hole No.	Footage		Length	Rec.	% Cu	% Mo	PPb Au/Ag 02/102	% Fe	Remarks
		from	to							
9725	CP86	126	131	5	5	.22	.009	230 08		
6			136			.72	.007	50 .21		
7			141			1.27	.072	130 .25		
8			146			.28	.0185	680 .13		
9			151			.11	.0085	70 .10		
30			156			.73	.0075	230 .25		
1			161			.22	.0035	210 .10		
2			166			.44	.0025	30 .11		
3			171			.15	.0025	20 .10		
4			176			.08	.0005	130 .09		
5			181			.02	.0005	30 .08		
6			186			.10	.001	40 .09		
7			191			.39	.0030	210 .09		
8			196			.02	.0005	280 .09		
9			201			.52	.002	410 .11		
40			206			.02	.0280	120 .05		
1			211			.05	.0225	10 .04		
9742			216		5	.24	.0240	40 .09		
3			221		4.9	.53	.0115	210 .12		
4			226		5	.26	.0095	60 .08		
5			231			.11	.0110	90 .05		
6			236			.13	.0725	20 .06		
7			241			.09	.0045	20 .05		
8			246			.54	.017	60 .17		
9			251			.26	.007	20 .08		
9750			256			.22	.007	100 .09		
1			261			.13	.0115	50 .07		
2			266			.43	.0200	210 .13		
3			271			.28	.0195	90 .10		
4			276			.65	.0135	180 .17		
5			281			.35	.0135	70 .13		
9756		281	286	5	5	.20	.0030	70 .09		
		126	286	160	160	0.30	.019	.0038		
		131	156	25	25	.62				
		261	281	20	20	.43				
		131	166	35	35	.54				
	Comp	131	166							
		261	281							