

HUDSON BAY EXPLORATION and DEVELOPMENT COMPANY LIMITED

Box ~~2400~~ 4007

Whitehorse, Yukon Territory Y1A 3S9.

July 29th, 1974

Zak Mineral Claims, Diamond Drilling, 1973.

Hudson Bay Exploration & Development Company Limited.

Whitehorse, Y.T..

A diamond drill program was carried out on the Zak claims between August 20th and September 8th, 1974. The grant numbers of the Zak claims are Y-74020 to Y-74034⁵ inclusive and are located in the Irvine Lake area, claim sheet number 105-B-11.

A total of 668 feet of IAX drilling, core size 13/8" in diameter, was completed in nine holes. Core recovery was generally very poor. The core is stored at Whitehorse Copper Mines core shack in Whitehorse.

Total direct cost involved was \$12,945.61. Additional costs were for core boxes, supervision and flying. These are not included here.

The following accompany:

1. Diamond Drill Logs holes Zak 1 to 8 inclusive.
2. Drill Record Sheets Zak 1 to 8 inclusive.
3. Location map.
4. Copy of invoice submitted by Wink International.

R.T. McIntosh, B.Sc. F.G.A.C.

HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim: Zak Claims

Location: Irvine Lake Area

Mining Division

Hole Nº. Zak 1

Angle: -60°

Direction: East

Depth: 71'

Grid Nº. Zak 1

Co-Ordinates: 5 + 02 S

0 + 49 W

Date Started: August 20, 1973

Finished: August 21, 1973

Logged By: S. McKenna

Drilled By: Wink International

DEPTH		DESCRIPTION OF CORE
From	To	
0	21.0	<p>Medium-grained, greenish-gray, serpentized quartzo-feldspathic breccia. Weathers to limonite locally; minor irregular quartz veinlets, serpentization variable in degree. Gravel, sand and mud seams frequent, up to several feet thick.</p> <p>Lost core: 12.9'</p>
21.0	26.0	<p>Gravel, sand, mud seams, breccia rock type.</p> <p>Lost core: 2.2'</p>
26.0	71	<p>Fine-grained, light-gray, dolomitic limestone, cut by quartz and serpentine veinlets, locally altered to limonite; some andesite veinlets; often brecciated. Cut at 37.1 - 38.0 by mineralized brecciated quartz-carbonate vein. Frequent sand and mud seams.</p> <p>Mineralization:</p> <p>37.1 - 38.0 1-2% chalcopyrite, 1-2% galena, 1-3% sphalerite. 56.0 - 61.0 Trace - 2% pyrite.</p> <p>Lost core: 32.8'</p> <p>Total Lost Core: 47.9' = 67.5%</p>

HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim: Zak Claims Location: Yukon
 Mining Division
 Hole Nº. Zak 2 Angle: -60° Direction: East Elev: 4795.2'
 Depth: 58' Grid Nº. Zak 1 Co-Ordinates: 4 + 60 S
 0 + 54 W
 Date Started: August 22, 1973 Finished: August 22, 1973 Logged By: S. McKenna
 R. T. McIntosh
 Drilled By: Wink International

DEPTH		DESCRIPTION OF CORE
From	To	
0.0	8.5	Casing: sand, mud, boulders.
8.5	17.2	Breccia, white glassy quartz with rusty weathering carbonate, very slight pyrite.
17.2	20.3	Cherty quartz, possibly vein quartz, minor fracturing.
20.3	34.6	Grey limestone, massive, fine grained, dolomitic, minor fracturing with carbonate, parts siliceous, Mud seam at 22'.
34.6	46.6	Lost core, mud.
46.6	58.0	Grey to black limestone, graphitic, 52 to 58', at 47' light pyrite, sand 53-58'. Hole abandoned at 58' due to sanding. Core Angles: at 20.4' 62°, at 22.5' 42°, at 23' 59°, at 24' 74°, at 25.5' 51°, at 26' 45°* at 26.8' 63°*, at 27.5' 36°*, at 31.1' 87°, at 48.2' 60°, at 49.5' 49°, at 50.0' 90°. * Denoted fracturing.
		Total Lost Core: 24.2' = 41.7%
		End of hole 58.0', abandoned due to sand in hole.

HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim: Zak Claims

Location:

Yukon

Mining Division

Hole Nº. Zak 3

Angle: -60°

Direction: East

Elev.: 4814.2'

Depth: 40

Grid Nº. Zak 1

Co-Ordinates: 3 + 48 S
0 + 68 W

Date Started: August 23, 1973

Finished: August 28, 1973

Logged By: S. McKenna

R. T. McIntosh

Drilled By: Wink International

DEPTH		DESCRIPTION OF CORE
From	To	
0.0	22.0	Broken bedrock, brecciated limestone, greyish core recovery 40%, core badly broken.
22.0	40.0	Quartzite, greyish, parts limev, occasional hairlike carbonate stringers, very slight pyrite, graphite on bedding at 40'. Sand at 40'. Hole abandoned at 40 feet in sand. Core angles: at 28' 53°, at 29' 50°, at 32' 58°. Total Lost Core: 8.5' = 21%.

HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim: Zak Claims Location: Yukon

Mining Division

Hole Nº. Zak 4 Angle: -60° Direction: East (091) Elev.: 4814'

Depth: 137' Grid Nº. Zak 1 Co-Ordinates: 3 + 48 S
0 + 43 WDate Started: August 28, 1973 Finished: August 30, 1973 Logged By: S. McKenna
rods frozen in hole

Drilled By: Wink International at 137'

DEPTH		DESCRIPTION OF CORE
From	To	
0.0	23.0	Casing: sand, mud, gravel, boulders.
23.0	27.6	Grevish-green quartz-dolomite-ankerite breccia. Mineralization: 23.0 - 24.0 1-2% pyrite. 25.0 - 26.1 Trace - 1% pyrite.
27.6	77.0	Fine-grained light greenish-grey and white banded dolomitic limestone, local ankerite, limonite patches, minor quartz veins. Mineralization: 28.0 - 30.0 Trace - 1% pyrite. 30.0 - 33.0 Trace - 1% pyrite.

FORM No. 630

HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED
DIAMOND DRILL LOG

Claim:

Location:

Mining Division

Hole No. Zak 4

Angle:

Direction:

Depth:

Grid No.

Co-Ordinates:

Date Started:

Finished:

Logged By:

Drilled By:

DEPTH		DESCRIPTION OF CORE																																				
From	To																																					
82.6	137.0	<p>From 82.6' to 96' serpentine - talc schist. From 96' to 137' massive greenish black fine-grained serpentinite.</p> <p>Frequent sand and mud seams throughout core.</p> <p><u>Core Angles:</u></p> <p><u>Bandings</u></p> <table> <tr> <td>46° @ 26'</td> <td>51° @ 49'</td> <td>55° @ 75'</td> </tr> <tr> <td>45° @ 28.6'</td> <td>47° @ 54.5'</td> <td>60° @ 80.5'</td> </tr> <tr> <td>45° @ 28.8'</td> <td>46° @ 55.9'</td> <td>75° @ 88'</td> </tr> <tr> <td>52° @ 31'</td> <td>53° @ 57'</td> <td></td> </tr> <tr> <td>42° @ 32'</td> <td>50° @ 58'</td> <td><u>Fractures</u></td> </tr> <tr> <td>52° @ 33.2'</td> <td>80° @ 59.6'</td> <td>30° @ 47'</td> </tr> <tr> <td>41° @ 34.7'</td> <td>60° @ 62.6'</td> <td>42° @ 60'</td> </tr> <tr> <td>47° @ 35'</td> <td>51° @ 63'</td> <td>30° @ 103'</td> </tr> <tr> <td>55° @ 36'</td> <td>47° @ 65'</td> <td></td> </tr> <tr> <td>57° @ 41'</td> <td>64° @ 66'</td> <td></td> </tr> <tr> <td>47° @ 47'</td> <td>45° @ 67'</td> <td></td> </tr> <tr> <td>57° @ 48.6'</td> <td>35° @ 69'</td> <td></td> </tr> </table> <p>Total Lost Core: 21.5' = 15.7%</p> <p>137.0' END OF HOLE</p>	46° @ 26'	51° @ 49'	55° @ 75'	45° @ 28.6'	47° @ 54.5'	60° @ 80.5'	45° @ 28.8'	46° @ 55.9'	75° @ 88'	52° @ 31'	53° @ 57'		42° @ 32'	50° @ 58'	<u>Fractures</u>	52° @ 33.2'	80° @ 59.6'	30° @ 47'	41° @ 34.7'	60° @ 62.6'	42° @ 60'	47° @ 35'	51° @ 63'	30° @ 103'	55° @ 36'	47° @ 65'		57° @ 41'	64° @ 66'		47° @ 47'	45° @ 67'		57° @ 48.6'	35° @ 69'	
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HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim: Zak Claims Location: Yukon
 Mining Division
 Hole Nº. Zak 5 Angle: -60° Direction: East (091) Elev.: 4783'
 Depth: 100' Grid Nº. Zak 1 Co-Ordinates: 5 + 02 S
 0 + 22 W
 Date Started: August 31, 1973 Finished: September 1, 1973 Logged By: S. McKenna
 Drilled By: Wink International

DEPTH		DESCRIPTION OF CORE
From	To	
0.0	27.0	Casing: sand, gravel, boulders.
27.0	55.0	Fine-grained banded greenish-grey and white dolomitic limestone, abundant ankerite, quartz, and calcite veinlets. Limonite patches. Rare magnetite, no mineralization.
55.0	69.0	Sand and mud seams, gravel (dolomite, serpentinite).
69.0	100.0	Serpentinite, greenish-black, fine-grained; schistose and massive sections. No mineralization.
		<u>Core Angles:</u>
		<u>Banding:</u>
		44° @ 29'
		38° @ 30'
		41° @ 31'
		60° @ 36'
		59° @ 40'
		75° @ 40.5'
		42° @ 41'
		64° @ 49'
		42° @ 52'
		61° @ 54' fractures 35°
		73° @ 83'
		85° @ 87'
		Total Lost Core: 20.8' = 20.8%
	100.0'	END OF HOLE.

HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim: Zak Claims

Location:

Yukon

Mining Division

Hole Nº. Zak 7

Angle: -60°

Direction: East (091)

Elev.: 4780'

Depth: 66'

Grid Nº. Zak 1

Co-Ordinates: 5 + 41 S
0 + 08 W

Date Started: September 5, 1973

Finished: September 5, 1973

Logged By:

S. McKenna

Drilled By: Wink International

DEPTH		DESCRIPTION OF CORE
From	To	
0.0	14.0	Casing: sand, gravel.
14.0	66.0	Banded fine-grained greenish-grey and white serpentinized dolomitic limestone; minor quartz layers and veins, ankerite, limonite patches and sections.
		Mineralization:
		14.0 - 14.5 Trace - 1% pyrite.
		15.5 - 18.5 Trace - 1% pyrite.
		23.0 - 24.0 Trace - 1% pyrite.
		31.0 - 35.0 Trace - 1% pyrite.
		Core Angles:
		71° @ 14' 43° @ 28'
		60° @ 15' 58° @ 31'
		54° @ 16' 66° @ 32'
		52° @ 16.3' 51° @ 35'
		59° @ 17' 40° @ 37'
		56° @ 18' 45° @ 39'
		48° @ 20' 40° @ 40'
		44° @ 21' 50° @ 44'
		52° @ 22'
		52° @ 24'
		62° @ 27'
		Total Lost Core: 24.4' = 37%
	66.0'	END OF HOLE, casing.

HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim: Zak Claims Location: Yukon
 Mining Division
 Hole Nº. Zak 8 Angle: -60° Direction: East (091) Elev. 4700'
 Depth: 33' Grid Nº. Zak 1 Co-Ordinates: 5 + 06 S
 2 + 50 W
 Date Started: September 6, 1973 Finished: September 7, 1973 Logged By: S. McKenna
 Drilled By: Wink International

DEPTH		DESCRIPTION OF CORE
From	To	
0.0	6.5	Casing: sand, gravel, boulders.
6.5	16.0	Medium to fine-grained light grey quartz breccia, serpentized. Mineralization: 6.5 - 7.0 Trace - 1% pyrite. @ 8.0' 1/2" globule pyrite. 10.5 - 11.0 Trace - 1% pyrite.
16.0	33.0	Fine-grained banded greenish grey serpentized dolomitic limestone, serpentine bands, limonite patches; frequent sand seams. Fractures. Mineralization: 20.5 - 21.0 Trace - 1% Pyrite. Core Angles: 44° @ 7.5' 50° @ 8.5' 30° @ 9.5' 38° @ 18.5' 50° @ 20.0' 65° @ 21.0' 61° @ 21.5' 45° @ 25.0' 51° @ 26.0' Total Lost Core: 8.4' = 25.5%
	33.0'	END OF HOLE, caving.

HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LIMITED

DIAMOND DRILL LOG

Claim: Zak Claims Location: Yukon

Mining Division

Hole Nº. Zak 9 Angle: -60° Direction: East (091) Elev. 4735'

Depth: 19' reamed to 28'
Grid Nº. Zak 1 Co-Ordinates: 5 + 06 S
1 + 40 W

Date Started: September 8, 1973 Finished: September 8, 1973 Logged By: S. McKenna

Drilled By: Wink International

DEPTH		DESCRIPTION OF CORE
From	To	
0.0	19.0	Casing: sand, gravel, boulders.
19.0	41.0	Fine-grained serpentized quartzitic dolomitic limestone, banded, greenish-grey. No mineralization. Core Angles: 57° @ 36' 40° @ 37' Total Lost Core: 8.3' = 20%
	41.0'	END OF HOLE, casing.

DIAMOND DRILL RECORD

Date Began Aug. 20, 1973 Date Completed Aug. 21/73

Property Zak Claims Project No. _____ Depth 71'
 Hole No. Zak 1 Co-ord 5402S Horizontal Length _____
 Sheet No. _____ Direction East
 Claim No. _____ Elevation _____ Angle -60°

DEPTH	NUMBER	WIDTH	ASSAY						Core recovery %	AVERAGES				
			AU	AG	CU	ZN	PB	NI		WIDTH	AU	AG	CU	ZN
0.0	11.0	27170	11.0	.09	.01	.01	.03		21%					
11.0	16.0	1	5.0	.09	.03	.02	Tr		28%					
16.0	21.0	2	5.0	Tr	.02	Tr	Tr		88%					
21.0	26.0	3	5.0	Tr	.04	Tr	Tr		56%					
26.0	35.0	4	9.0	.15	.03	Tr	.01		28%					
35.0	37.1	5	2.1	.09	.05	.01	.01		43%					
37.1	38.0	6	0.9	3.09	.30	.32	1.83		100%					
38.0	43.0	7	5.0	.15	.08	.02	.17		16%					
43.0	46.0	8	3.0	Tr	.01	Tr	Tr		60%					
46.0	50.5	9	4.5	Tr	.02	Tr	.01		38%					
50.5	56.0	80	5.5	Tr	.02	.01	Tr		15%					
56.0	61.0	1	5.0	.09	.01	Tr	.01		24%					
61.0	65.0	2	5.0	.09	.01	Tr	.01		15%					
65.0	71.0	3	5.0	.15	.02	.01	.03		20%					

Hole abandoned at 71' in sand and cava.

DIAMOND DRILL RECORD

Date Began August 22, 1973 Date Completed Aug. 22/73

Property Zak Claims Project No. Depth 58.0'
 Hole No. Zak 2 Co-ord 4760S Horizontal Length
 Sheet No. 0754W Direction East
 Claim No. Elevation 4795.1 Angle -60°

Resident Geologist.

NUMBER	WIDTH	ASSAY						WIDTH X ASSAY	AVERAGES							
		AU	AG	CU	ZN	PB	NI		Core Recovery	WIDTH	AU	AG	CU	ZN	PB	NI
Casing	8.5	Sand and boulders														
0	27190	7.5	.06	.01	Tr	Tr		44%								
5	27184	0.5	Tr	.01	Tr	Tr		100%								
0	27191	0.5	Tr	.01	Tr	Tr		100%								
0	2	1.0	Tr	.01	Tr	Tr		100%								
0	3	2.0	Tr	.01	.01	Tr		45%								
0	4	2.0	Tr	.01	.01	Tr		75%								
0	5	1.0	Tr	.01	.01	.01		100%								
0	6	1.0	Tr	.01	.01	Tr		90%								
0	7	1.0	Tr	.01	.01	.01		100%								
0	8	1.0	Tr	.02	.01	Tr		100%								
0	9	1.0	Tr	.02	.01	.03		100%								
0	27200	2.0	Tr	.01	.01	.01		100%								
0	28401	1.0	Tr	.02	.01	Tr		100%								
0	2	1.0	.06	.02	.01	Tr		100%								
6	3	1.6	Tr	.02	.01	Tr		56%								
0	4	0.4	Tr	.01	.02	Tr		100%								
0	5	1.0	Tr	.01	.01	Tr		100%								
6	6	0.6	Tr	.02	.01	Tr		100%								
6	7	12.0	.06	.01	.01	Tr		4%								
5	8	0.9	.03	.01	.02	Tr		100%								
0	27185	0.5	Tr	.01	.01	Tr		100%								
5	6	0.5	Tr	.02	.02	.01		100%								
0	7	0.5	.15	.04	.22	.17		100%								
5	8	0.5	.15	.05	.18	.08		100%								
0	9	8.5	Tr	.02	.01	.01		16%								

Hole abandoned at 58'
 Casing reamed to 22'

Date Began Aug. 27, 1912 Date Completed Aug. 27, 12

Property Zak Claims Project No. Depth 40'
 Hole No. Zak 3 Co-ord 348S Horizontal Length
 Sheet No. 068W Direction East
 Claim No. Elevation 4824.2 Angle -60°

DEPTH	NUMBER	WIDTH	ASSAY						WIDTH X ASSAY		AVERAGES							
			AU	AG	CU	ZN	PB	NI	Core recovery		WIDTH	AU	AG	CU	ZN			
0.0	22.0	Casing 22.0																
22.0	27.7'	28409	5.7															
27.7	28.2	10	0.5															
28.2	28.6	11	0.4															
28.6	29.0	12	0.4															
29.0	29.5	13	0.5															
29.5	30.0	14	0.5															
30.0	30.5	15	0.5															
30.5	31.0	16	0.5															
31.0	31.5	17	0.5															
31.5	32.0	18	0.5															
32.0	32.5	19	0.5															
32.5	33.0	20	0.5															
33.0	33.6	21	0.6															
33.6	34.0	22	0.4															
34.0	35.0	23	1.0															
35.0	36.0	24	1.0															
36.0	39.5	25	3.5															
39.5	40.0	26	0.5															

Casing reamed to 26'

Hole abandoned at 40' in sand and cave.

Date Began August 28, 1973 Date Completed Aug. 30/73

Property Zak Claims Project No. Depth 137'
 Hole No. Zak 4 Co-ord 37486 Horizontal Length
 Sheet No. 1 043W Direction East
 Claim No. Elevation Angle -60°

Re

DEPTH	NUMBER	WIDTH	ASSAY							WIDTH X ASSAY		AVERAGES				
			AU	AG	CU	ZN	PB	NI	Core Recovery		WIDTH	AU	AG	CU	ZN	
0.0	23.0	Casing	23.0	Sand, mud and boulders												
23.0	23.5	28427	0.5		.02	Tr	Tr			100%						
23.5	24.0	8	0.5		.02	Tr	Tr			100%						
24.0	25.0	9	1.0		.01	Tr	Tr			100%						
25.0	25.5	30	0.5		.01	Tr	Tr			100%						
25.5	26.1	1	0.6		.01	.01	Tr			100%						
26.1	26.6	2	0.5		.02	Tr	Tr			100%						
26.6	27.6	3	1.0		.01	Tr	Tr			100%						
27.6	28.0	4	0.4		.01	Tr	Tr			100%						
28.0	28.4	5	0.4		.02	Tr	Tr			100%						
28.4	30.0	6	1.6		.01	Tr	Tr			100%						
30.0	31.5	7	1.5		.01	Tr	Tr			80%						
31.5	33.0	8	1.5		.01	Tr	Tr			73%						
33.0	33.8	9	0.8		.01	Tr	Tr			75%						
33.8	34.6	40	0.8		.01	Tr	Tr			100%						
34.6	35.1	1	0.5		.01	Tr	Tr			100%						
35.1	35.6	2	0.5		.01	Tr	Tr			100%						
35.6	36.0	3	0.4		.01	Tr	Tr			100%						
36.0	39.0	4	3.0		.01	Tr	Tr			27%						
39.0	41.0	5	2.0		.01	Tr	Tr			20%						
41.0	43.0	6	2.0		.01	Tr	Tr			35%						
43.0	45.0	7	2.0		.01	Tr	Tr			35%						
45.0	46.0	8	1.0		.01	Tr	Tr			50%						
46.0	47.6	9	1.6		.01	Tr	Tr			38%						
47.6	48.6	50	1.0		.01	Tr	Tr			60%						
48.6	52.0	1	3.4		.01	Tr	Tr			40%						
52.0	53.0	2	1.0		.01	Tr	Tr			50%						
53.0	54.0	3	1.0		.01	Tr	Tr			50%						
54.0	54.5	4	0.5		.01	Tr	Tr			100%						
54.5	55.0	5	0.5		.01	Tr	Tr			100%						
55.0	55.5	6	0.5		.01	Tr	Tr			100%						
55.0	55.9	7	0.4		.01	Tr	Tr			100%						
55.9	56.5	8	0.6		.01	Tr	Tr			100%						

Property..... Project No..... Section.....
 Hole No. Zak 4..... Co-ord..... Depth.....
 Sheet No. 2..... Direction.....
 Claim No..... Elevation..... Angle.....

DEPTH	NUMBER	WIDTH	ASSAY				WIDTH X ASSAY		AVERAGES
			Cu	Zn	Pb	Ni	Core Recovery	WIDTH	
56.5	57.0	28459	0.5	.01	Tr	Tr		100%	
57.0	57.5	60	0.5	.01	Tr	Tr		100%	
57.5	58.0	1	0.5	.01	Tr	Tr		100%	
58.0	58.5	2	0.5	.01	Tr	Tr		100%	
58.5	59.0	3	0.5	.01	Tr	Tr		100%	
59.0	59.6	4	0.6	.01	Tr	Tr		100%	
59.6	61.0	5	1.4	.01	Tr	Tr		71%	
61.0	62.6	6	1.6	.01	Tr	Tr		50%	
62.6	63.0	7	0.4	.01	Tr	Tr		100%	
63.0	65.5	8	2.5	.01	Tr	Tr		80%	
65.5	66.0	9	0.5	.01	Tr	Tr		100%	
66.0	66.5	70	0.5	.01	Tr	Tr		100%	
66.5	67.0	1	0.5	.01	Tr	Tr		100%	
67.0	67.5	2	0.5	.01	.01	Tr		100%	
67.5	68.0	3	0.5	.01	Tr	Tr		100%	
68.0	68.5	4	0.5	.01	Tr	Tr		100%	
68.5	69.5	5	1.0	.01	Tr	Tr		100%	
69.5	75.5	6	6.0	.01	Tr	Tr		35%	
75.5	80.0	7	4.5	.01	Tr	Tr		47%	
80.0	80.4	8	0.4	.02	.01	Tr		100%	
80.4	81.0	9	0.6	.02	Tr	Tr		100%	
81.0	82.6	80	1.6	.02	Tr	Tr		30%	
82.6	105.0	Waste	22.4						
105.0	106.0	81	1.0	.01	Tr	Tr	.14		
106.0	137.0	Waste	31.0						

End of Hole 137'

DIAMOND DRILL RECORD

Date Began Aug. 31, 1973 Date Completed Sept. 1/73

Property Zak Claims Project No. Depth 100'
 Hole No. Zak 5 Co-ord 5/02S Horizontal Length
 Sheet No. 0/22W Direction East
 Claim No. Zak 3 Elevation 4783 Angle -60°

DEPTH	NUMBER	WIDTH	ASSAY						WIDTH X ASSAY		AVERAGES								
			AU	AG	CU	ZN	PB	NI	Core Recovery		WIDTH	AU	AG	CU	ZN				
0.0	27.0	Casing	27.0																
					Sand	Mud	Boulders												
27.0	29.0	28482	2.0		.01	Tr	Tr				35%								
29.0	31.0	3	2.0		.01	Tr	Tr				35%								
31.0	36.0	4	5.0		.01	Tr	Tr				28%								
36.0	40.0	5	4.0		.01	Tr	Tr				32%								
40.0	41.0	6	1.0		.01	Tr	Tr				100%								
41.0	44.0	7	3.0		.01	Tr	Tr				20%								
44.0	49.0	8	5.0		.02	Tr	Tr				18%								
49.0	52.0	9	3.0		.02	Tr	Tr				40%								
52.0	53.0	90	1.0		.02	Tr	Tr				100%								
53.0	55.0	1	2.0		.01	Tr	Tr				60%								
55.0	63.0	Waste	8.0																
63.0	64.0	92	1.0		.02	Tr	Tr				100%								
64.0	83.0	Waste	19.0																
83.0	87.0	93	4.0		.01	Tr	Tr	.17											
87.0	100.0	Waste	13.0																

End of Hole 100'

77549

192 128 12

sand from hole, assays in ppm.

DIAMOND DRILL RECORD

Date Began Sept. 2, 1973 Date Completed Sept. 4/73

Property Zak Claims Project No. _____ Depth 122'
 Hole No. Zak 6 Co-ord 6785N Horizontal Length _____
 Sheet No. _____ 11/43W Direction _____
 Claim No. Zak 3 Elevation 4855 Angle -90°

Rods frozen in hole lost 35' rods, 5' barrel bit and shell.

DEPTH	NUMBER	WIDTH	ASSAY						WIDTH X ASSAY		AVERAGES					
			AU	AG	CU	ZN	PB	NI	Core	Recovery	WIDTH	AU	AG	CU	ZN	
0.0	39.0	Casing	39.0	Sand, gravel boulders												
39.0	40.0	28494	1.0		.02	Tr	Tr			100%						
40.0	41.0	5	1.0		.01	Tr	Tr			100%						
41.0	46.0	6	5.0		.02	.01	Tr			48%						
46.0	47.0	7	1.0		.01	Tr	Tr			100%						
47.0	48.0	8	1.0		.02	Tr	Tr			100%						
48.0	49.0	9	1.0		.02	.01	Tr			100%						
49.0	50.0	28500	1.0		.02	.02	Tr			100%						
50.0	51.0	77501	1.0		.02	Tr	Tr			100%						
51.0	54.5	2	3.5		.02	Tr	Tr			48%						
54.5	55.5	3	1.0		.02	Tr	Tr			100%						
55.5	56.5	4	1.0		.02	Tr	Tr			200%						
56.5	57.0	5	0.5		.02	Tr	Tr			100%						
57.0	58.0	6	1.0		.02	Tr	Tr			100%						
58.0	61.0	7	3.0		.01	Tr	Tr			50%						
61.0	63.5	8	2.5		.01	Tr	Tr			76%						
63.5	66.0	9	2.5		.02	Tr	.01			60%						
66.0	71.0	10	5.0		.02	Tr	Tr			50%						
71.0	77.0	1	6.0		.01	Tr	Tr			40%						
77.0	81.0	2	4.0		.01	Tr	Tr			32%						
81.0	84.5	3	3.5		.01	Tr	Tr			23%						
84.5	92.5	4	8.0		.01	Tr	Tr			16%						
92.5	97.0	5	4.5		.01	Tr	Tr			56%						
97.0	98.0	6	1.0		.01	Tr	Tr			100%						
98.0	99.5	7	1.5		.01	Tr	.01			67%						
99.5	101.0	8	1.5		.01	Tr	Tr			100%						
101.0	104.0	9	3.0		.01	Tr	Tr			23%						
104.0	109.0	10	5.0		.01	Tr	Tr			20%						
109.0	111.0	11	2.0		.01	Tr	Tr			35%						
111.0	115.0	12	4.0		.01	Tr	Tr			50%						
115.0	119.0	13	4.0		.01	Tr	Tr			75%						
119.0	121.0	14	2.0		.01	Tr	Tr			70%						
121.0	122.0	15	1.0		.01	Tr	Tr									
			End of Hole 222'													

DIAMOND DRILL RECORD

Date Began Sept. 5, 1973 Date Completed Sept. 5/73

Property Zak Claims Project No. Depth 66.0'

Hole No. Zak 7 Co-ord 541S Horizontal Length

Sheet No. 0408W Direction East

Claim No. Elevation 4780 Angle -60°

DEPTH	NUMBER	WIDTH	ASSAY						Core recovery	AVERAGES								
			AU	AG	CU	ZN	PB	NI		WIDTH	AU	AG	CU	ZN				
0.0	14.0	Casing	14.0															
14.0	14.5	77526	0.5															
14.5	15.5	7	1.0															
15.5	16.0	8	0.5															
16.0	16.5	9	0.5															
16.5	17.0	30	0.5															
17.0	17.5	1	0.5															
17.5	18.0	2	0.5															
18.0	18.5	3	0.5															
18.5	20.0	4	1.5															
20.0	21.0	5	1.0															
21.0	23.0	6	2.0															
23.0	23.5	7	0.5															
23.5	24.0	8	0.5															
24.0	25.0	9	1.0															
25.0	27.0	40	2.0															
27.0	31.0	1	4.0															
31.0	35.0	2	4.0															
35.0	40.0	3	5.0															
40.0	45.0	4	5.0															
45.0	51.0	5	6.0															
51.0	55.0	6	4.0															
55.0	61.0	7	6.0															
61.0	66.0	8	5.0															

End of Hole 66'

DIAMOND DRILL RECORD

Date Began Sept. 6, 1973 Date Completed Sept. 7/73

Property Zak Claims Project No. Depth 33.0'

Hole No. Zak 8 Co-ord 5706S Horizontal Length

Sheet No. 2750W Direction East

Claim No. Elevation 4700 Angle -60°

DEPTH	NUMBER	WIDTH	ASSAY						WIDTH X ASSAY		AVERAGES							
			AU	AG	CU	ZN	PB	NI	Core recovery	WIDTH	AU	AG	CU	ZN				
0.0	6.5	Casing																
					Sand, gravel, boulders													
6.5	7.0	77550	0.5	Tr	.01	Tr	Tr			100%								
7.0	8.0	1	1.0	Tr	.01	Tr	Tr			100%								
8.0	8.5	2	0.5	Tr	.01	Tr	Tr			100%								
8.5	10.0	3	1.5	Tr	.01	Tr	Tr			100%								
10.0	10.5	4	0.5	Tr	.01	Tr	.01			100%								
10.5	11.0	5	0.5	Tr	.02	Tr	Tr			100%								
11.0	12.0	6	1.0	Tr	.01	Tr	Tr			100%								
12.0	14.0	7	2.0	Tr	.01	Tr	Tr			50%								
14.0	16.0	8	2.0	Tr	.01	.01	Tr			25%								
16.0	17.0	9	1.0	Tr	.02	Tr	.01			100%								
17.0	20.0	60	3.0	Tr	.02	Tr	Tr			66%								
20.0	20.5	1	0.5	Tr	.01	Tr	.01			100%								
20.5	21.0	2	0.5	Tr	.01	Tr	Tr			100%								
21.0	22.0	3	1.0	Tr	.01	Tr	Tr			100%								
22.0	24.0	4	2.0	Tr	.01	Tr	.01			100%								
24.0	26.0	5	2.0	Tr	.01	Tr	Tr			100%								
26.0	29.0	6	3.0	Tr	.01	Tr	Tr			20%								
29.0	30.0	7	1.0	Tr	.01	Tr	Tr			80%								
30.0	31.0	8	1.0	Tr	.01	.01	Tr			23%								

End of Hole 33'

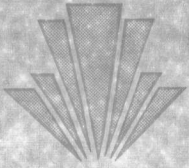
DIAMOND DRILL RECORD

Date Began Sept. 8, 1973 Date Completed Sept. 8/73

Property Zak Claims Project No. Depth 41'
 Hole No. Zak 9 Co-ord 5406S Horizontal Length
 Sheet No. 140 Direction East
 Claim No. Elevation 4735 Angle -60°

DEPTH	NUMBER	WIDTH	ASSAY					WIDTH X ASSAY		AVERAGES				
			AU	AG	CU	ZN	PB	NI	Core recovery	WIDTH	AU	AG	CU	ZN
0.0	19.0	Casing	19.0	Sand and gravel										
19.0	23.0	77569	4.0	.03	.02	Tr	Tr		100%					
23.0	28.3	70	5.3	Tr	.03	.02	Tr		4%					
28.3	31.0	1	2.7	.06	.01	.01	Tr		37%					
31.0	34.0	2	3.0	.09	.01	Tr	.01		100%					
34.0	37.0	3	3.0	Tr	.01	Tr	.01		100%					
37.0	41.0	4	4.0	Tr	.02	Tr	Tr		62%					

End of Hole 41'



Wink International Exploration Drilling Ltd.

CONTRACTORS & CONSULTANTS

TELEPHONE: (604) 943-7234
CABLE: "WINKIE", DELTA, B.C., CANADA

Sept. 24, 1973

4814 DOGWOOD DRIVE
DELTA, B.C., CANADA

Hudson Bay Exploration & Development Co., Ltd.
Whitehorse, Yukon Territory

Attention: Mr. Russ McIntosh

SERVICE & DRILLING in the Vicinity of Pine Lake Airstrip,
Yukon Territory: August 17 - September 10, 1973. (25 Days)

Hole #	IAX Core	AX Casing
1	71'	34'
2	58'	22'
3	40'	26'
4	137'	24'
5	100'	34'
6	122'	39'
7	66'	42'
8	33'	25'
9	41'	28'
<hr/>		
	668'	274'

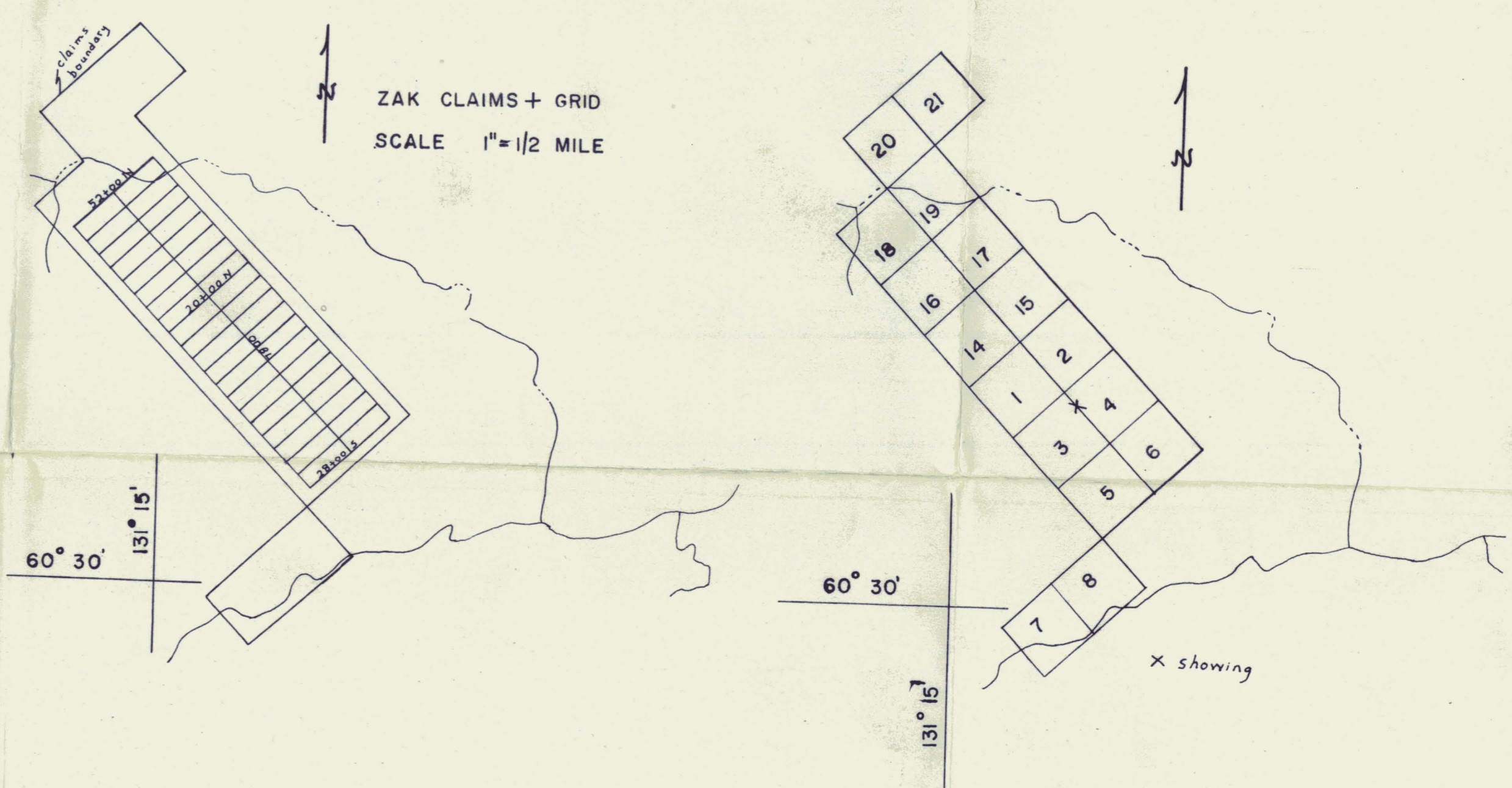
*1640-04 12,945.61
or 1011 - 1620.7*

668 ft. IAX Core Drilling @ \$7.25 per ft.	\$ 4,843.00
274 ft. AX Casing Drilling @ \$7.25 per ft.	1,986.50
\$100.00 per day per crew - 23 Days x 2 Crews	4,600.00
Air Passage (4 men) Watson Lake - Vancouver	308.00
Trucking Equipment from W. Lake to Vancouver	325.31
Twilite Truck Rental - Watson Lake	112.69
Motel - Watson Lake - August	35.00
Motel - Watson Lake - September	35.00
Salary - D. Ferrier (Cook)	\$660.00
Company Charges (C.P.P., U.I.C. & Wkmen's Comp.Bd.)	<u>40.11</u>
	<u>700.11</u>
Less: Expenses for Crew - Paid by R. McIntosh	\$12,945.61 <u>143.54</u>
Balance Due	<u>\$12,802.07</u>

Note: Due to drilling in sandy conditions resulted in wearing out casing sub, crews were on stand-by time 3 1/2 days; Wink Int'l. agreed to absorb 2 days of this stand-by time.



ring quartz veins
line
sample



HUDSON BAY EXPLORATION & DEVELOPMENT COMP.
WHITEHORSE OFFICE

ZAK CLAIMS - IRVINE LAKE AREA, Y.T.
 CLAIM MAP 105 B-11
 SCALE - AS SHOWN
 AUGUST, 1973