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GILLIES LIMIT

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# REPORT ON ALLUVIAL SAMPLING IN THE SCHUMAN LAKE AREA COBALT PROJECT, ONTARIO for Cabo Mining Corp.

March 19, 2001

Seymour M. Sears



MAR 2 6 2001

GEOSCIENCE ASSESSMENT OFFICE

#### **SUMMARY**

Seven alluvial samples were collected from creeks draining into or out of Schuman Lake in Gillies Limit North Township for Cabo Mining Corp. The target of the sampling is kimberlite indicator minerals (KIM's). Two of the samples (D-9 and D-12) were found to contain anomalous quantities of KIM's. Follow up work is highly recommended.

Wawa, Ontario March 19, 2001 Respectfully submitted,

Seymour M. Sears, B.A., B.Sc. Geologist



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#### INTRODUCTION

This work report on mining claims in the Cobalt area of northeastern Ontario, Canada (Figures 1, 2), has been prepared on behalf of Cabo Mining Corp. (Cabo) of Vancouver, BritishColumbia. The contents of the report is based on involvement in the project by Sears, Barry and Associates personnel and as supervisor of the project.

#### **OVERVIEW**

The Cobalt project was acquired by Cabo early in 1999 under an agreement with Branchwater Resources Ltd. of Calgary, Alberta. Currently the lands total approximately 9087 hectares under option agreements with three separate holders. These include Outcrop Explorations Limited (Outcrop) - a Cobalt based private company, Consolidated Professor Mines Ltd. (Professor) - a public company controlled by local individuals and a local prospecting partnership consisting of Murray Simpson and Simon Wareing (Simpson & Wareing).

The project encompasses a relatively large land position in a mining camp that dates to the early 1900's. Traditionally, the campisknown for it's deposits of silver and base metals (past production - 450 million oz of silver, 24.8 million lbs of cobalt, 3.2 million lbs of copper, 3.1 million lbs of nickeland 1.2 million lbs of lead). More recently, kimber litepipes have been identified a short distance north of the project area (Sage, 2000) near New Liskeard. The pipes are reported to be associated with 070 degree trending structures that cut major northwest trending regional scale faults. One such structure passes through the Schuman Lake area.

#### PROPERTY LOCATION AND ACCESS

The Cabo properties consist of 580 claim units covering parts of five townships - Gillies Limit North, Lorrain, South Lorrain, Coleman and Bucke. For discussion purposes, these can be grouped together in three separate areas - North Cobalt Group (Bucke Twp. and the north part of Lorrain Twp.), Gillies Limit Group (Gillies Limit North and Coleman Twp's) and South Group (south part of Lorrain and north part of South Lorrain Townships). All are located within the Larder Lake Mining Division, Ontario. The alluvial samples were collected from two claims:

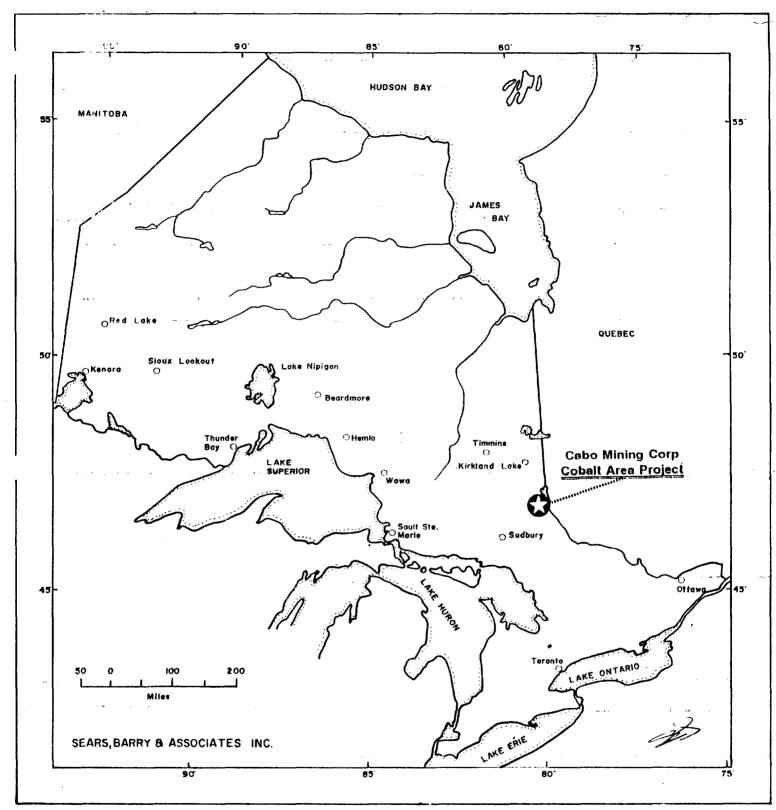


Fig. I: Regional Location Map of Ontario.

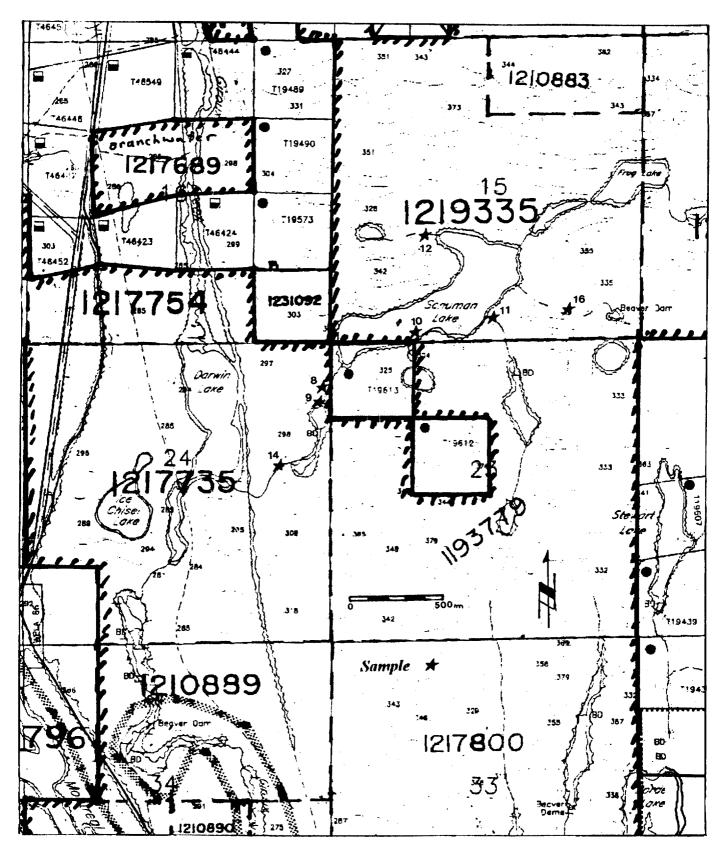


Figure 2: Claim Map Showing Alluvial Sample Locations - Part of Gillies Limit North Township, Cobalt Area, Ontario for Cabo Miming Corp.

Claim L 1217735 Claim L 1219335

The property is southeast of the town of Cobalt on the west side of Lake Temiskaming (Figure 1). Because of the area being part of an old mining camp, gravelled roads and old trails are relatively common. Some of these have been maintained to provide access to forests and hydroelectric resources. Many are in bad condition and can be used with ATV's or on foot. Access to the Schuman Lake area is via an old trail that departs from th Houndchutes Road approximately 7.5 kilometres from the town of Cobalt (Figure 2).

#### TOPOGRAPHY AND VEGETATION

Topography is generally rolling with local steep ledges and cliffs. Relief varies from 300 to 350 metres in the immediate Schuman Lake area. Overburden is complex, consisting of boulder till in some areas to sand and gravel sheets in others. Bedrock ridges are abundant. Drainage is towards the southwest into Giroux Creek and ultimately into the Montreal river on the west side of the claim area.

Vegetation consists mainly of poplar, birch, maple and dense underbrush in the higher ground with spruce swamps in the lower ground.

#### **EXPLORATION HISTORY**

The Cobalt mining camp dates back to 1903 when silver was first discovered in the area. Literally thousands of prospectors and hundreds of small companies have carried out work inthearea. Numerousolddiggingshave been completed in the Schuman Lakearea in search of silver and base metals. This resulted indiamond drilling between 1949 and 1953 (Waldag Mining 3 holes for 485 feet; H.W.Knight, 11 holes for 1289 feet). Results were encouraging. There is no previous record of exploration for kimberlite in this area. ODM Map 2052 by Robert Thompson is an excellent map showing the local geology.

#### REGIONAL AND PROPERTY GEOLOGY

The Cobalt property is located within a geological area known as the Cobalt embayment.

The rocks that underlie the project area include basement forming Keewatin mafic to felsic metavolcanics and Algoman granitic rocks overlain by relatively flat lying Huroni metasediments. A Nipissing aged diabase unit, in the form of sills and dykes, intrudes all oftheserocktypes. Younger diabase dykes locally cross cutalloftheserocks. Lmprophyre dykes of various ages intrude the Keewatin and Algoman rocks. Very young kimberlite

dykes and pipes have also been discovered immediately north of the project area.

The rocks in the project area are strongly influenced by at least four major northwest trending regional scale fault structures (Figure 3). These include the Timiskaming Fault, the Crosswise Lake Fault, the Montreal River Fault and the Latchford Fault. Numerous crossfaults and other lineaments connect these major structures, including an arch formed in a Nipissing diabase sill, the axis of which passes through Schuman Lake.

#### SAMPLING PROGRAM

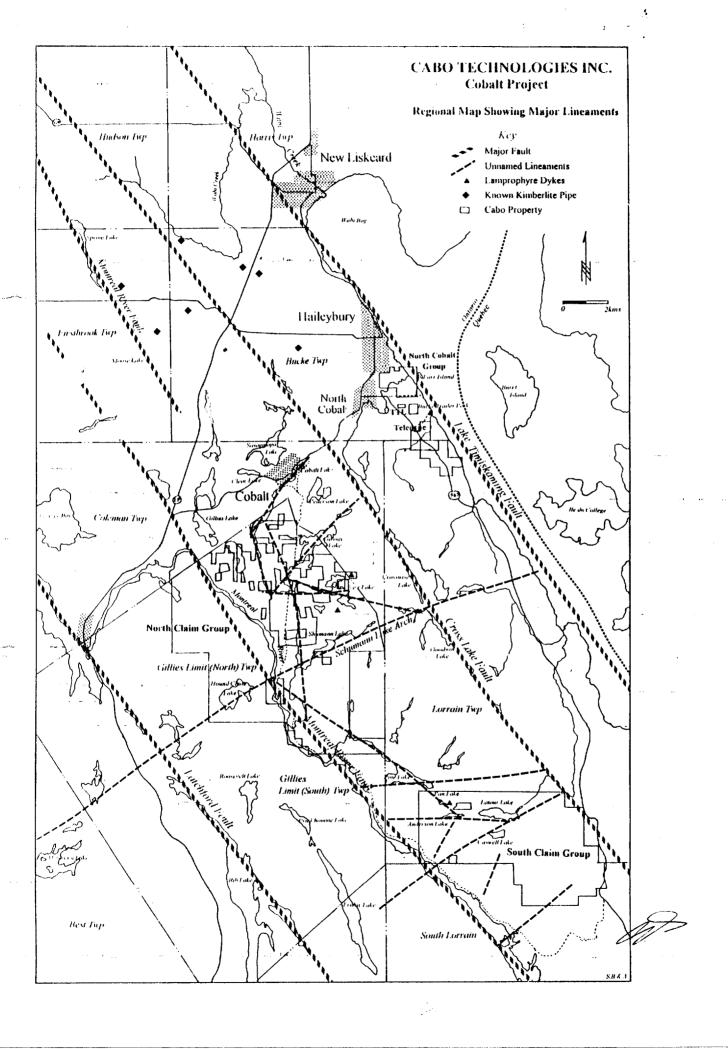
The samples collected ranged from 8.2 to 12.7 kilograms. Due to the long pack out and the difficulty locating suitable sample material, the collection required 4 man days. The locations of the seven alluvial samples are shown on Map 1 accompanying this report. They are located relative to claim posts in the following table.

Sample #	Reference to Claim #
D-8	220 m south and 15 metres west of # 1 Post, Claim L 1217735.
D-9	305 m south and 45 metres west of # 1 Post, Claim L 1217735.
D-10	405 m east and 5 metres north of of # 3 Post, Claim L 1219335.
D-11	825 m east and 120 metres north of of # 3 Post, Claim L 1219335.
D-12	490 m east and 565 metres north of of # 3 Post, Claim L 1219335.
D-14	645 m south and 240 metres west of # 1 Post, Claim L 1217735.
D-16	1130 m east and 165 metres north of of # 3 Post, Claim L 1219335.

The samples, along with 16 others from different locations (not reported here), were delivered to Overburden Drilling Management in Nepean, Ontario where they were processed for Kimberlite Indicator Minerals, gold grains and other heavy metals. The results accompany this report in Appendix I.

The total KIM count in the seven samples ranged from 2 to 48 grains. Samples D-9 and D-12 contain particularly high values (31 and 48 grains). Included among these grains were 3 pyrope garnets in D-9 and 6 pyrope garnets in D-12. These garnets are considered to be one of the best indicators of kimberlite (Morris, 1994). The sample area is more than 15 kilometres southeast of and 200 metres higher than any known kimberlite pipe. It is possible but unlikely that the KIM's are from any known pipe.

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## **CONCLUSIONS AND RECOMMENDATIONS**

Two of seven alluvial samples collected in the Schuman Lake area of Gillies Limit North Township were found to contain elevated numbers of Kimberlite Indicator Minerals. Further work including till sampling, prospecting, re-interpretation of airborne geophysical surveys and ground geophysical surveys are recommended.

Wawa, Ontario March 19, 2000 Respectfully submitted,

Seymour M. Sears, B.A., B.Sc. Geologist

#### REFERENCES

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Ontario Geological Survey

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Assessment Files of the Ontario Geological Survey, Larder Lake Office.

## Appendix I

Cabo Mining Corp. - Cobalt Area Project Schuman Lake Area

**Alluvial Sample Processing Results** 

#### **OVERBURDEN DRILLING MANAGEMENT LIMITED**

107-15 CAPELLA COURT, NEPEAN, ONTARIO, K2E 7X1

TELEPHONE: (613) 226-1771/1774 FAX NO.: (613) 226-8753 EMAIL: odm@storm.ca

#### DATA TRANSMITTAL REPORT

DA	TΖ	F	•

01-Mar-01

ATTENTION:

Mr. Seymour Sears

CLIENT:

**SEARS, BARRY & ASSOCIATES LTD.** 

22 Caverhill Street P.O. Box 2058 Wawa, ON P0S 1K0

PHONE / FAX NO.: (705) 856-2018 / 1147

NO. OF PAGES:

13+2-page letter

PROJECT:

COBALT

SAMPLE SERIES: D001 to D023

TOTAL SAMPLES: 23

FILE NO:

**SEYMOUR SEARS FEBRUARY 2001.wb3** 

THESE SAMPLES WERE PROCESSED FOR: KIMBERLITE INDICATORS

**MMSIMs** 

GOLD

#### SPECIFICATIONS:

Submitted by client: 5 to 16 kg bulk sand, gravel and till samples in one to four bags.

Heavy liquid separation specific gravity: 3.20. All samples picked for indicator minerals.

All other sample fractions are presently stored.

**REMARKS:** 

Remy Huneault Laboratory Manager



# OVERBURDEN DRILLING MANAGEMENT LIMITED LABORATORY SAMPLE LOG

Project: COBALT
Total of 23 samples

ame: SEYMOUR SEARS FEBRUARY 2001.wb3

					1												
	ļ <u> </u>	Weigh	t (kg)			Clas	sts >2.	.0 mm				Matr	ix <2.0	) mm			
							Perce	ntage			Distri	bution		Col	our		
Sample Number	Bulk Rec'd	Table Split	+2 mm Clasts	Table Feed	Size	V/S	GR	LS	ОТ	S/U	SD	ST	CY	Sand	Clay	O r q	Class
COBALT																	
<del>D001</del>	15.0	14.5	1.2	13.3	a	<del>- 95</del> -	-5	<del>-0</del> -	0	8	MC-		_ N	<del>- QY</del> -	NA		SAND + GRAVEL
<del>D002</del>	14.9	<del>- 14.4</del>	<del>4.0</del> -	10.4	G	<del>-60</del> -	-40-	_0_	<del>-0</del> -	-8-	-MC-		N	<del>0C</del>	-NA		SAND + GRAVEL
<del>D003</del>	16.5	<del>16.0</del> -	10.5	5.5	P.	<del>-70-</del>	-30-	_0_	-0-	S		<u>N</u>	N	<del></del>	NA.		GRAVEL -
<del>-D004</del>	5.5	5.0	<del>- 0.9</del>	4.1	G	- 95-	<del>5</del>	_0_	-0-	S	MC-	+		-GY	GY.	<del></del>	SAND + SILT
<del>D005</del>	10.2	9.7	2.5	7.2	G	-15-	-85	_0_	_0_	s-	MC-	-N-	N	-GB	-NA		SAND + GRAVEL
D006	15.5	14.9	8.4	6.5	Р.	-45	55	Tr_	<u> </u>	Š.	MC.	Υ	N	_GB_	NA		SAND - GRAVEL
D007	8.6	8.1	3.3	4.8	P.	-25-	<del>-75</del> -	_0_	<u> </u>	-ŝ-	MC				NA.		SAND + GRAVEL
D008	8.2	7.7	3.6	4.1	G	80	20	0	Ō	s	MC	_	N	OC	NA		SAND + GRAVEL
D009	12.1	11.6	7.9	3.7	P	90	10	0	0	s	MC	N	Ñ	GY	NA		GRAVEL
D010	7.3	6.8	0.1	6.7	P	100	0	0	0	s	MC	•	N	GB	NA		SAND
D011	12.7	12.1	6.0	6.1	Р	90	10	0	0	s	C		N	DBN	NA		SAND + GRAVEL
D012	10.9	10.4	4.0	6.4	P	95	5	Ô	ō	s	FM	N	N	GB	NA		SAND + GRAVEL
D013	6.4	<del>5.9</del>	1.5	4.4	p_	-90-	<del>-10</del> -	<del>_0</del> _	<u> </u>			<del></del>	<del></del>	- <del>oc</del> -	-OC	-	TILL + SOIL
D014	8.5	8.0	6.2	1.8	P	80	20	Ō	0	Š	MC	N	N	DOC	NA		GRAVEL
D015	5.2	<del>4.7</del>	0.5	4.2	P	-90-	10-		-0-	u	<del></del>	_Y_	Υ	BN-	BN-		TILL + SOIL
D016	8.5	8.0	3.7	4.3	Р	90	10	0	0	s	С	-	Ν	DOC	NA		SAND + GRAVEL
<del>D017</del>	15.5	14.9	3.1	11.8	P	-50	<del>-10</del> -	40	0,	···U	<del></del>	Υ_	-γ-	LOC	LOC-		TILL
P918	10.2	9.7	2.0	7.7	P	-90	10-	0	-0-	U	<del></del>	Υ	<u></u>	<del>0C</del>	<del>-0C-</del>		TILL
19	11.6	11.0	1.7	9.3	P	-60-	<del>40</del>	Tr	-0-	U	Y	_ <del></del>	<del>Y</del>	LOC	<del>LOC</del>		TILL
<del>- 1020</del>	13.3	12.8	3.4	9.4	P	-00	-10-	0	0	Ū	Y	-γ	Y	LOC	<del>LOC</del>		TILL
D021	12.3	11.7	<del>2.7</del> -	9.0	P	-40	<del>-20</del> -	40	0	Ü	<u></u>	Υ	-γ	-LOC	LOC-		TILL -
D022	9.8	9.2	<del></del>	8.2	P	-95-	-5-	_0_	<del>-</del> 0-	Ū	_ <del>Y</del> _	<u> Y</u>	<u>-</u>	LOC	LOC-		TILL -
D023	14.7	14.2	3.1	11.1	į.	-80-	<del>_20</del> _	<del>-</del> 0-	<u> </u>	Ū.	- Y	Υ_	-γ	LOC	FOC		TILL

# OVERBURDEN DRILLING MANAGEMENT LIMITED GOLD GRAIN SUMMARY SHEET

Project: COBALT Total of 23 samples

Filename: SEYMOUR SEARS FEBRUARY 2001.wb3

Sample Number	Num	nber of Visit	ole Gold Gr	ains	Nonmag HMC Weight	Calculated PPB Visible Gold in HMC							
	Total	Reshaped	Modified	Pristine	(g)	Total	Reshaped	Modified	Pristine				
COBALT					*								
<del>D0.)1</del>	0	<del>0</del>	0	0	53.2	0		0	0				
D032			o		41.6	<u>_</u>							
-D003	<del></del>	<u>_</u>	0		22.0	4	4		0				
-D034		0-			<del>16.4</del> -				0				
<del>-D005</del>					28.8	0	0	0	0				
D006	5	4			26.0	<del>65</del>	57	<del>7-</del>					
- <del>D007</del>		1		0	19.2	19	·	0					
B008	1	0	1	0	16.4	5	0	5	0				
D003	0	. 0	0	0	14.8	0	0	0	0				
D010	0	0	0	0	26.8	0	0	0	0				
D011	1	1	0	0	24.4	41	41	0	0				
D012	3	2	1	0	25.6	48	47	1	0				
<del>D013</del>	0		0	0	17.6	0	0	0	<del>0</del>				
D014	0	0	0	0	7.2	0	0	0	0				
D015			-0	0	18.8	- 0	0	- 0	0				
D016	0	0	0	0	17.2	0	0	0	0				
D017	2				47.2	10	10	<del>0</del>	0,				
-D018					30.8	0			0				
<del>D019</del>	24	5	3	<del>16</del>	37.2	49	<del>12</del>	8	29				
-D020	<del>15</del>		<u>2</u>	4	37.6	12	10						
<del>D021</del>	9	<del>9</del> -			36.0	88	88		0				
<del>D022</del>	<u>ŏ</u>			ñ	32.8	49	49						
-D023	17	16_		<u>_</u>	* 44.4	68	67	Ô	0				

<sup>\*</sup> Calculated ppb Au based on assumed nonmagnertic HMC weight equivalent to 1/250th of the table feed.

# OVERBURDEN DRILLING MANAGEMENT LIMITED DETAILED GOLD GRAIN SHEET

Project: COBALT
Total of 23 samples
Fill name: SEYMOUR SEARS FEBRUARY 2001.wb3

Sample Number	Panned Yes/No	Dimensi	ons (micro	ons)	Nur	nber of Visi		rains	Nonmag HMC Weight	Calculated V.G. Assay in HMC	Remarks
		Thickness	Width	Length	Reshaped	Modified	Pristine	Total	(g)	(ppb)	
OBALT <del>D001</del>	No	NO VISIBL	E GOLD.								
D002	No.	NO VISIBL	E GOLD	•							
D003	No No	8 C	25	<del>50</del>	1		· · · · · · · · · · · · · · · · · · ·				
								<del></del> 1	22.0	4	<del></del>
<del>D004</del>	No	NO VISIBL	E GOLD	_							
D005	No No	NO VISIBL	E GOLD								
D006	No No	10 C	<del>50</del>	50 76	4	1					
		13 6	<del></del>	/8				6	26.0	65	<del></del>
D007	No	13 C	50	75	1			1			<del></del>
									19.2	19	A CONTRACTOR OF THE CONTRACTOR
B000	No	8 C	25	50		1		1	16.4	5	
D009	No	NO VISIBL	E GOLD								
D010	No	NO VISIBL									
D011	No	18 C	75	100	1			1	24.4	41	•
D012	No	5 C	25	25		1		1			
		10 C 18 C	50 75	50 100	1			1 1			
			, •	,	·			3		48	•
<del>D013</del>	No	NO VISIBL	E GOLD-				•				
D014	No	NO VISIBL	E GOLD								
<del>D015</del>	No -	NO VISIBL	E GOLD	•							
D016	No	NO VISIBL	E GOLD								5 beads mercury contamination 25µ
<del>D017</del>	No		25	<del>50</del>						<del></del>	2 beads mercury contamination 25µ
		<del>-13 C</del>		<del>75</del>					47.2	10	<del>-</del>
-D018	No-	NO VISIBL	E GOLD								
-D019	Yes	3 C	<del>15</del>	<del>15</del> -			2	2	·		No Sulphides.
		_4.C.	15	25			2	3		•	•
		<del>-7-C</del> -	<del>15</del>	<del>50</del>		2	2	4	·····		
		-5-C	<u>25</u>	2 <u>5</u>	2			5	<del></del>		
		<del>-10-C</del>	25 25	<del>50</del> <del>75</del>	1	- 1		2			
		₩0-C	- 50	<del>50</del>							
		13 C	50	7 <u>5</u>							
							·	24	37.2	49-	<u>-</u>
-D020	Yes	3 C	<del>15</del>	15			2	2			No Sulphides.
		<del>'4 C</del>	<del>- 15 -</del>	25	3	<del>2</del>		0			
		_7_C_	15	- 50	3			3			
		-5-C	25	25	1						
		8-C	25	- 50							

#### OVERBURDEN DRILLING MANAGEMENT LIMITED LABORATORY SAMPLE LOG KIMBERLITE INDICATOR MINERAL COUNTS

Project: COBALT

Total of 23 samples Filename: SEYMOUR SEARS FEBRUARY 2001.wb3

			<2.0 mm Table Concentrate							Selec	ted Pseud	doKIMs			KIN	1 Cou	ınt (*	spec	cies I	not rig	orou	sly r	oicke	d; ex	clude	d fro	m tota	al)		
			0.25	-2.0 m	m Heav	y Liquid S	Separation	on S.G	3.20	1.0-2.0 mm	0.5-1.0 mm	0.25-0.5 mm		1.6	0 to 2	2.0 m	nm			0.5	i to 1	.0 m	m			0.2	5 to 0	.5 mr	n	
						Nonferror	nagnetic F	raction					l																	ł
Sample Number	Total	-0.25 mm	Heavy Liquid Lights	Total Mag	Total	<0.25 mm (wash)	0.25 to 0.5 mm	0.5 to 1.0 mm	1.0 to 2.0 mm	Low-Cr diopside	Low-Cr diopside	Low-Cr diopside	GP	GO	DC	IM	CR	FO*	GP	GO	DC	IM	CR	FO*	GP (	GO*	DC I	M* C	R FO	Total KIMs
COBALT				**					**																					
D001	950.7	599.3	320.6	2.00	28.8	11.8	15.0	1.5	0.50	0					0	0			٥	_0_	-0	Α	Α.	0	7	0	0	<u> </u>	<u> </u>	
D002	728.0	452.0		2.00		5.2	13.4	33	1.90			3	ما	<u> </u>	_مَــ	_ŏ_	<u> </u>	_å_	1	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	44	<u>.</u>	ŏ-	2	1-1-	<del>L 13</del> -
D002	438.6	107.1	320.6	1.20	0.7	2.0	4.2	2.0	1.50		<u> </u>		لۆـ	_	_ <u>ŏ</u> _	<u> </u>	<u> </u>	<u> </u>	ــــٰ	<u> </u>	<u> </u>	<u> </u>	ŏ	<u>.</u>	Li_	<u>-</u>	<u> </u>	2(	<u> </u>	1 3
<del>D004</del>	281.6	156.4	124.0	0.01	1.2	0.3	0.8	0.1	-0.04			<u> </u>	مَا	<u> </u>	_ŏ_	_ŏ_	_ <u>ŏ</u> _	_ <u>ŏ</u> _	ـةــا	_ŏ_	<u> </u>		<u> </u>	_ŏ_	<u> </u>	Ŏ.	<u> </u>	<del>-</del>	<u> </u>	<u></u>
<del>D005</del>	826.4	597.3	211.3	0.30	17.5	3.7	8.2	<del>3.5</del>	2.10				ـمّـا	<u> </u>	<u> </u>		Ö	Ŏ.	مَا	_ <u>ŏ</u> _	ă.	<u>.</u>	<u> </u>	<u> </u>	4	ءَ	4	6	_ a_	
D006	590.2	308.4	253.3	4.30		3.7	<del>- 13.1</del>	<u>5.1</u>	2.30		<u> </u>	12	مَا	<u> </u>	ă	<u>.</u>	<u> </u>	_ <u>-</u> a_	ما	<u> </u>	<u> </u>	<u> </u>	_ŏ_	<u> </u>	_غــا	<u> </u>	<u>.</u>	<del>*</del>	1	<u> </u>
D007	452.1	252.1		2.20		3.0	7.4	1.5	0.40	_ <u>ŏ</u> _	<u> </u>	<u>;</u> -	مَا	<u> </u>	ŏ.	_ŏ_	Ă.	Ă.	Ļŏ	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>.</u>	1	<u> </u>	<u> </u>	<u></u>	· ·	<del>L</del> ⊸
D008	362.9	237.6	113.1	0.80	11.4	1.9	4.7	2.1	2 70	ŏ	Õ	2	٥	ñ	Ô	ō	ō	Ô	l o	ñ	0	Ô	ñ	ŏ	2	Ô	1	1 !	5 0	8
D009	329.7	39.9	281.2	0.10	8.5	0.6	4.9	2.2	0.80	ņ	Õ	4	ō	ō	Õ	2	ō	ō	1	1	ō	5	ñ	Õ	3	1	1 !	57 1	8 1	31
D010	358.6	278.1	73.8	0.20	6.5	1.3	4.2	0.8	0.20	Ô	Ō	ż	ō	ō	ō	<u></u>	Õ	Õ	ò	ò	ō	ō	ñ	õ	1	ò	1	2 (	0 0	2
D011	454.3	198.0	241.2	1.10	14.0	3.3	7.0	2.7	1.00	Ŏ	Õ	2	lo	ō	ō	ō	ō	ō	٥	ō	ō	Õ	ō	ō	0	1	Ò	7	4 0	4
D012	542.1	326.3	187.9	2.30	25.6	4.8	14.2		2.80	Ō	ō.	13	١٥	Ō	Ō	Ō	Ō	1	1	1	Ó	7	ō	1	6	3	2	18 3	1 8	48
-D013	376.0	216.4	157.5	0.50	1.6	0.5	0.8	0.2	0.10			2	۰	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	اها	_0_	_0	1	<u> </u>	<u> </u>	_ ق	-ō-	- <del>-</del> -	3	<del>- 0-</del>	1-2
D014	265.3	58.8	199.6	0.60	6.3	0.9	2.5	1.6	1.30	Ō	Ō	2	0	ō.	Ö	Ō	Ö	Ō	lo	0	0	1	ō	ō	0	0	Õ	1 .	1 0	2
-D015	312.6	172.5	137.5	0.50	2.1	0.8	1.0	0.2	0.10	<u> </u>	0	0	0	<u> </u>	_ō-	<u> </u>	<u> </u>	<u> </u>	0	<u> </u>	- ō-	4	-ō-	<u> </u>	1	Ō	<u> </u>	3(	<del>- 0</del> -	12
D016	487.2	191.9	279.4	1.70	14.2	3.0	6.8	3.2	1.20	O	0	3	0	0	0	Ô	0	0	0	0	0	0	0	0	4	0	0	1 5	5 1	9
<del>D017</del>	1030.1	525.1	494.8	3.20	16.0	5.0	7.0	2.7	1.30			16	0	-0-	-0-	-0-	-0-		1	_0_		<u> </u>	-0-	8	4	•	4	2 (	2 10	<del>  8</del> −
<del>D018</del>	728.3	392.4	325.9	-1.50	8.5	2.0	4.2	1.5	0.80			3	<b>L</b>	-0-	_هـ	_0_	۰	0	<b> </b> -0-	_0_	۰	1	-1-	<u> </u>	1	•		5 (	3 0	-6-
-D019	891.7	367.8	498.3	2.70	22.9	11.0	7.4	3.2	1.30	-		4	<b>-</b> 0-	0_	0_	0-	_0_	0	0	_0_	-0-	2	0		8	1	2	10	3 3	18
D020	1196.8	729.5	420.8	4.20	42.3	11.4	18,1	8.2	4.60			10	Lo.	_0_	•	_2	0	_0_	<b>↓</b> o	_0_	0	5	•	4	8	2	0	4 :	3 11	18
D021	879.8	458.6	367.9	<del>-5.10</del>	, <del>,,,,,</del>	16.2	18.5	8.2	5.20	<del></del>	<del>0</del>	12	0	-0	-0-	-0-	-0-	-0-	<del>  0</del> -	-0-	-0-	-0-	0	-7-	8	-1	-1	<del>8 (</del>	3 16	12
D022	850.0	478.2	339.3	4.25	28.3	8.3	11.5	6.0	2.50	<u> </u>		8	0	-0-	-0-	-0	-0-	<del></del> 0-	0	0	-0-	2	0	2	-5-	0	1	4	3 1	<del>  11</del> -
- <del>D023</del>	938.7	<del>501.6</del>	412.4	<del>- 3.80</del>	20.0	5.0	10.0	4.1	1.80	<del></del>		<del>7</del>	0	-0-	0-	-0-	-0-	0	11		-0-	-8	-0-	-1	4-	1	0	<del>22 (</del>	5 1	18

<sup>\*\*</sup> Values greater than 0.1 g were weighed only to one decimal place; the zero was added in the second decimal position to facilitate column alignment.

# OVERBURDEN DRILLING MANAGEMENT LIMITED KIMBERLITE INDICATOR MINERAL PICKING FOOTNOTES

PROJECT: COBALT TOTAL OF 23 SAMPLES

FILENAME: SEYMOUR SEARS FEBRUARY 2001.wb3

mple No.	REMARKS:
D001	SEM check from 0.25-0.5 mm fraction: 1 GP versus almandine candidate = 1 GP
D002	SEM checks from 0.25-0.5 mm fraction: 4 GO versus almandine candidates = 2 GO (Cr-poor pyrope) and 2 almandine; 2 CR versus crustal ilmenite candidates = 1 crustal ilmenite and 1  Ti-andradite; and 2 IM versus crustal ilmenite candidates = 2 IM.
D003	No KIM remarks.
-D004	No KIM remarks
D005	SEM check from 1.0-2.0 mm fraction: 1 IM versus crustal ilmenite candidate = 1 IM. SEM checks from 0.25-0.5 mm fraction: 3 GO versus grossular candidates = 2 GO (Cr-poor pyrope) and 1 staurolite; and 10 IM versus crustal ilmenite candidates = 6 IM, 3 crustal ilmenite and 1 CR.
D006	SEM check from 0.25-0.5 mm fraction: 1 GO versus almandine candidates = 1 almandine.
-D007	No KIM remarks.
D008	SEM checks from 0.5-1.0 mm fraction: 3 IM versus crustal ilmenite candidates = 3 crustal ilmenite. SEM checks from 0.25-0.5 mm fraction: 1 pale GP versus almandine candidate = 1 GP; and 6 CR versus crustal ilmenite candidates = 5 CR and 1 IM.
D009	SEM check from 1.0-2.0 mm fraction: 1 IM versus crustal ilmenite candidate = 1 IM. SEM checks from 0.5-1.0 mm fraction: 4 IM versus crustal ilmenite candidates = 3 IM and 1 Ti-andradite. SEM checks from 0.25-0.5 mm fraction: 12 IM versus crustal ilmenite candidates = 2 IM, 6 crustal ilmenite, 2 CR and 2 Ti-andradite; and 1 forsterite versus diopside candidate = 1 forsterite.
D010	SEM checks from 0.25-0.5 mm fraction: 4 IM versus crustal ilmenite candidates = 2 IM and 2 crustal ilmenite.
D011	SEM check from 0.25-0.5 mm fraction: 1 GO versus grossular candidate = 1 GO (Cr-poor pyrope).
D012	SEM checks from 0.5-1.0 mm fraction: 2 IM versus CR candidates = 1 crustal ilmenite and 1 Ti-andradite. SEM checks from 0.25-0.5 mm fraction: 3 GO versus grossular candidates = 2 GO (Cr-poor pyrope) and 1 grossular; and 2 CR versus Ti-andradite candidates = 1 CR and 1 Ti-andradite.
− <del>D()+;3</del>	No KIM remarks
D014	No KIM remarks.
D015	No KIM remarks.
D016	No KIM remarks.
-D017	SEM check from 1.0-2.0 mm fraction: 1 GO versus almanding candidate = 1 almanding.
D018	No KIM remarks.

## OVERBURDEN DRILLING MANAGEME MITE MMS INDICATOR MINERAL DATA

PROJECT: COBALT TOTAL OF 23 SAMPLES

FILENAME: SEYMOUR SEARS FEBRUARY 2001.wb3

Sulphide/Arsenide + Related

Mg/Mn/Al/Cr Minerals

		Sulphide/Arsenio Minerals 0.25						/AI/Cr 25-0.5	Mineral mm_							
		>1.0 amp		<1.0 amp		>1 amp				>0.8 amp		<0.	8 amp			
Sample Number	% Cpy	Misc. Prime MMSIMs	% Py	% Gth_	# Grains + Colour Spinel	Misc. Prime MMSIMs	% Red Rutile	% Ky	% Sil	% St	% Sps	% Fay	% Opx	% Cr	Remarks	Picked Grains
D008	Tr (8 gr)	0	0	0	O	Tr low-Cr diopside (2 gr)	0	0	0	3	Tr	0	10	Tr (5 gr; see KIM data)	Augite/epidote assemblage.	0.25-0.5 mm fraction: 8 chalcopyrite 2 low-Cr diopside 5 chromite (picked as KIMs)
D009	0	0	0	Tr	0	Tr low-Cr diopside (4 gr)	0	0	0	0	Tr	0	10	Tr (18 gr; see KIM data)	Augite-homblende/epidote assemblage.	0.5-1.0 mm fraction: 1 chalcopyrite 0.25-0.5 mm fraction: 4 low-Cr diopside 18 chromite (picked as KIMs) 1 forsterite (see KIM data; picked as KIM)
D010	0	0	Tr (2 gr)	0	0	Tr low-Cr diopside (2 gr)	0	0		Tr	0	0	15	0	Augite-orthopyroxene/epidote-diopside assemblage.	0.25-0.5 mm fraction: 2 low-Cr diopside
D011	Tr (3 gr)	0		0	0	Tr low-Cr diopside (2 gr)	0	0	0	5	0	0.	15	Tr (4 gr; see KIM data)	Augite-almandine-orthopyroxene/epidote assemblage. SEM checks from 0.25-0.5 mm fraction: 5 representative fayalite versus orthopyroxene candidates = 5 bronzite.	0.5-1.0 mm fraction: 1 chalcopyrite 0.25-0.5 mm fraction: 3 chalcopyrite 2 low-Cr diopside 5 representative bronzite 4 chromite (picked as KIMs)
D012	0	0	0	0	1 blue gahnite	Tr low-Cr diopside (13 gr)	0	0	0	5	Tr	0	0	Tr (31 gr; see KIM data)	Almandine-homblende-augite/diopside assemblage.	1.0-2.0 mm fraction: 1 forsterite (see KIM data; picked as KIM) 0.5-1.0 mm fraction: 1 forsterite (see KIM data; picked as KIM) 0.25-0.5 mm fraction: 1 gahnite 13 low-Cr diopside 31 chromite (picked as KIMs) 8 forsterite (see KIM data; picked as KIMs)
<del>-D0:3</del>	·	0	0	Tr	1 colouriess	Tr low-Cr		_0_	0_	5_	0_	0_	Tr_	Tr /1 or	Almandine-augite/epidote-diopside	0.25-0.5 mm fraction:
						(2 gr)								see KIM		2 low-Cr diapside
														data)		1 chromite (picked asKIM)

## OVERBURDEN DRILLING MANAGEM... 4T LIMITED MMS INDICATOR MINERAL DATA

PROJECT: COBALT TOTAL OF 23 SAMPLES

FILENAME: SEYMOUR SEARS FEBRUARY 2001.wb3

Sulphide/Arsenide + Related Mg/Mn/Al/Cr Minerals

	Minerals 0.25					o.:								-	
	>1.0 amp		amp		>1 amp				>0.8 amp		<0	.8 amp	1		
% Cpy	Misc. Prime MMSIMs	% Py	% Gth	# Grains + Colour Spinel	Misc. Prime MMSIMs	% Red Rutile	% Ky	% Sil	% St	% Sps	% Fay	% Opx	% Cr	Remarks	Picked Grains
0	0	Tr (2 gr)	Tr	0	Tr low-Cr diopside (2 gr)	0	0	0	5	0	0	15	Tr (1 gr; see KIM data)	Augite-orthopyroxene/epidote-diopside assemblage.	0.25-0.5 mm fraction: 2 low-Cr diopside 1 chromite (picked as KIM)
_0_	0	Tr (2-gr)	Tr	0	0	0	Tr		2_		0	1		Actinolite/epidote assemblage. SEM checks from 0.25-0.5 mm fraction: 3	0.25-0.5 mm fraction: 6 representative actinolite
															actinone
0	0	O	0	0	Tr low-Cr diopside (3 gr)		0	0	1	0	0	10	Tr (5 gr; see KIM data)	Augite-almandine/diopside-epidote assemblage.	0.25-0.5 mm fraction: 3 low-Cr diopside 5 chromite (picked as KIMs) 1 forsterite (see KIM
															data; picked as KIM)
<del>- Tr</del> -	0	<del></del>	Tr	0	Tr Mn-epidote	-	-0-		5	-0		5_	Tr	Augite-homblende-almandine/epidote	0.5-1.0 mm fraction:
<del>-(1-gr)</del>					(1 gr)								(2 gr;	assemblage.	1 low-Cr diopside 8 forsterite (see KIM
											-				data; picked as KiMs
				<del></del>	(16 gr)										0.25-0.5 mm fraction:
														<u></u>	1 chalcopyrite
															1 Mn-epidote
														<del>-</del>	16 low-Cr diopside 2 chromite (picked as
															-KIMs)
			•												- 10 forsterite (see KIM
															data; picked as KIMs
Tr.	0		Tr	0	Tr low-Cr	Tr	_0_	0	1	0_	0_	5_	Tr	Augite/epidote-diopside assemblage.	0.5-1.0 mm fraction:
(1 gr)					diopside	(1 gr)							(3 gr;		- 1 chromite (see KIM-
					(3 gr)								_See KIM		data; picked as KIM)  0.25-0.5 mm fraction:
															1 chalcopyrite
														-	3 low Cr diopside
															- 1 red rutile -
														•	3 chromite (picked as KIM)
	0 0 0	>1.0 amp  % Misc. Prime MMSIMs  0 0  0 0  Tr 0 (1 gr)	% Cpy         Misc. Prime MMSIMs         % Py           0         0         Tr (2 gr)           0         0         0           0         0         0           0         0         0           0         0         0	>1.0 amp	Solution   Solution	>1.0 amp	Section   Sect	Section   Sect	>1.0 amp         \$1.0 amp         >1 amp           % Misc. Prime Cpy         % Misc. Prime MMSIMs         % Gth Colour Spinel         Misc. Prime MMSIMs         % Russie         % % Sil           0         0         Tr         Tr         0         Tr low-Cr diopside (2 gr)         0	Solution	Section	Section   Sect	Solution	S1.0 amp	Solution



### **Declaration of Assessment Work Performed on Mining Land**

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use) W0180. 00148

Assessment Files Research Imaging

;	31M05692023
	31MOFORDODO

ubsection 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act sesment work and correspond with the mining land holder. Questions about this rthern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury.

•			
	31M05SE2033	2,21016	TT 7

GILLIES LIMIT 900 Instructions: - For work performed on Crown Lands before recording a claim, use form 0240. - Please type or print in ink. Recorded holder(s) (Attach a list if necessary) Client Number Address (705) POJ160 (70S) Name Client Number Address Telephone Number Fax Number Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration. Rehabilitation Geotechnical: prospecting, surveys, Physical: drilling stripping, assays and work under section 18 (regs) trenching and associated assays Work Type Office Use Geochemical Commodity (allusial Sampling Total \$ Value of Work Claimed 2900 Dates Werk 01 NTS Reference Acat OO Month Performed Day Global Positioning System Data (if available) Township/Area Mining Division Resident Geologist **District** Please remember to: - obtain a work permit from the Ministry of Natural Resources as required; - provide proper notice to surface rights holders before starting work; - complete and attach a Statement of Costs, form 0212; - provide a map showing contiguous mining lands that are linked for assigning work; - include two copies of your technical report. Person or companies who prepared the technical report (Attach a list if necessary) Telephone Number E ASSOCIA 705)856-Fax Number (705) 856 Address Name Telephone Number Address Fax Number Name MAR 2 6 2001 Telephone Number Address **GEOSCIENCE ASSESSMENT** Fax Number **OFFICE** Certification by Recorded Holder or Agent M. Sears , do hereby certify that I have personal knowledge of the facts set forth in

Deymour M. (Print Name) this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true. Signature of Recorded Holder or Agent More Agent's Address Telephone Number Eax Number Pos /ki) 2051856-2018 70Y) 8 0241 (03/97)

ning Claim Number. Or if	<b>W0180.0014</b> Number of Claim	Ճ Value of work	Value of work	Value of work	Bank. Value of work
k was done on other eligible ning land, show in this umn the location number icated on the claim map.	Units. For other mining land, list hectares.	performed on this claim or other mining land.	applied to this claim.	assigned to other mining claims.	to be distributed at a future date
TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
1234567	12	0	\$24,000	O O	0
1234568	2	\$ 8,892	\$ 4,000	0	\$4,892
4 1217735	15	1243	φ	/243	ф
4 1219335	14	1657	ø	1657	\$
1229626	4	φ	1600	φ	ø
1229662	14	\$	1300	Ø	ø
	<u> </u>				
					-
		<i>S</i>	4 1200	\$ 2000	- I
Column Totals	47	2900	/300	the above work cred	φ
			ilanh.	23/01	
oritize the deletion of credits: 增 1. Credits are t 之 2. Credits are t 口 3. Credits are	this declaration may to be cut back from to be cut back starti to be cut back equa	be cut back. Plea the Bank first, foli ng with the claims	lowed by option 2 of slisted last, workin listed in this decla	or 3 or 4 as indicated g backwards; or	
me of the credits claimed in toritize the deletion of credits:  1. Credits are to 2. Credits are to 3. Credits are to 4. Credits are to 4. Credits are to 4. Credits are to 5. Credits are to 5. Credits are to 6.	this declaration may to be cut back from to be cut back starti to be cut back equa to be cut back as po	the Bank first, foliong with the claims of the claims of the attention to be deleted, create to be deleted, create to be deleted.	lowed by option 2 of a listed last, workin listed in this decla tached appendix o	or 3 or 4 as indicated g backwards; or ration; or r as follows (describe	e): t,
me of the credits claimed in toritize the deletion of credits:  1. Credits are to 2. Credits are to 3. Credits are to 4. Credits are to 4. Credits are to 4. Credits are to 5. Credits are to 5. Credits are to 6.	this declaration may to be cut back from to be cut back starti to be cut back equa to be cut back as po	the Bank first, foliong with the claims of the claims of the attention to be deleted, created as the component of the deleted of the component	lowed by option 2 of slisted last, working listed in this declar tached appendix of the cut backed will be cut backed.	or 3 or 4 as indicated g backwards; or ration; or ras follows (described by the bank first Date Notificated)	e): t,
me of the credits claimed in toritize the deletion of credits:  1. Credits are 1. 2. Credits are 1. 3. Credits are 1. 4.	this declaration may to be cut back from to be cut back starti to be cut back equa to be cut back as po	the Bank first, foling with the claims ally over all claims rioritized on the attention to be deleted, created by the control of the control	lowed by option 2 of slisted last, working listed in this declar trached appendix of the cut backed approved Date.	or 3 or 4 as indicated g backwards; or ration; or ras follows (described by the bank first Date Notificated)	e): t, ation Sent of Credit Approved



Ministry of Northern Development and Mines

# Statement of Costs for Assessment Credit

Transaction Number (office use)

W0180.00148

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

			•		
. Work Type	Units of Work  Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost		
Allyvial Sampling	(Processing) T samples 0	\$210	#1470		
Samplin	4 Mandage @	175	700		
Report + Duffing	1 Man day @	350	350		
Associated Costs (e.g. supplie	s, mobilization and demobilization).				
	sportation Costs	·····			
Vehel	le 4 days @	50	200		
Food	and Lodging Costs				
Acom (R.		45	180		
	RECEIVED Total Value of	Assessment Work	\$2900		
	performance is claimed at 100% of the				
	s and up to five years after performance, if this situation applies to your claims, use				
TOTAL VALUE OF ASSESSM	ALUE OF ASSESSMENT WORK × 0.50 = Total \$ value of worked claim				
equest for verification and/or co	eligible for credit. hired to verify expenditures claimed in this rrection/clarification. If verification and/or the assessment work submitted.				
Certification verifying costs:	९८० ) , do hereby certify, that the a	amounte chown are a	e accurato ae may		
easonably be determined and th	ne costs were incurred while conducting a	ssessment work on th	ne lands indicated on		
he accompanying Declaration o	f Work form as (recorded holder, agent, or state co	mpany position with signing au	l am authorize		
o make this certification.	Vocasia de la composição de la composiçã	, , ,	••		

Ministry of **Northern Development** and Mines

**OUTCROP EXPLORATIONS LIMITED** 

April 26, 2001

P0J-1C0

12 MARTIN DRIVE COBALT, ONTARIO

Dear Sir or Madam:

Ministère du Développement du Nord et des Mines



Geoscience Assessment Office 933 Ramsey Lake Road 6th Floor Sudbury, Ontario P3E 6B5

Telephone: (888) 415-9845 (877) 670-1555

Visit our website at: www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

Submission Number: 2.21016

Status

**Subject: Transaction Number(s):** W0180.00148 Approval

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact JIM MCAULEY by e-mail at james.mcauley@ndm.gov.on.ca or by telephone at (705) 670-5858.

Yours sincerely.

ORIGINAL SIGNED BY

Lucille Jerome

Acting Supervisor, Geoscience Assessment Office

Lucille Jerome

Mining Lands Section

## **Work Report Assessment Results**

**Submission Number:** 

2.21016

Date Correspondence Sent: April 26, 2001

Assessor: JIM MCAULEY

Transaction Number

**First Claim** 

Number

Township(s) / Area(s)

**Status** 

**Approval Date** 

W0180.00148

1217735

GILLIES LIMIT (N.)

Approval

April 25, 2001

Section:

13 Geochemical GCHEM

At the discretion of the Ministry, the assessment work performed on the mining lands noted in this work report may be subject to inspection and/or investigation at any time.

Correspondence to:

Resident Geologist

Kirkland Lake, ON

Assessment Files Library

Sudbury, ON

Recorded Holder(s) and/or Agent(s):

Seymour Sears

WAWA, ONTARIO, CANADA

**OUTCROP EXPLORATIONS LIMITED** 

COBALT, ONTARIO

CABO MINING CORP. VANCOUVER, BC

MURRAY D SIMPSON LATCHFORD, ONTARIO

CONSOLIDATED PROFESSOR MINES LIMITED

KIRKLAND, WASHINGTON



Map Datum: MAC 8.1
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Minang Land Toung about the Provincial Mining Rectarders' Office

The information shows is derived from signal data evanable in the Provinces Menny Receivers' Orace at the time of accessorating it aim the familiary of Northury Development and Manie web Sie.

MINING LAND TENURE

