

# WORK REPORT

# ON THE DIAMOND DROLL PROGRAM BOBS LAKE PROPERTY

# LOCATED IN WHITNEY TOWNSHIP PORCUPINE MINING DIVISION

FOR

LIBERTY MINES INC.

2.31975,

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VISION EXPLORATION
Timmins, Ontario
705-360-7722
April 7<sup>th</sup>, 2006

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DDH PLAN MAP

**DDH SECTION** 

APPENDIX A

FIG. 5

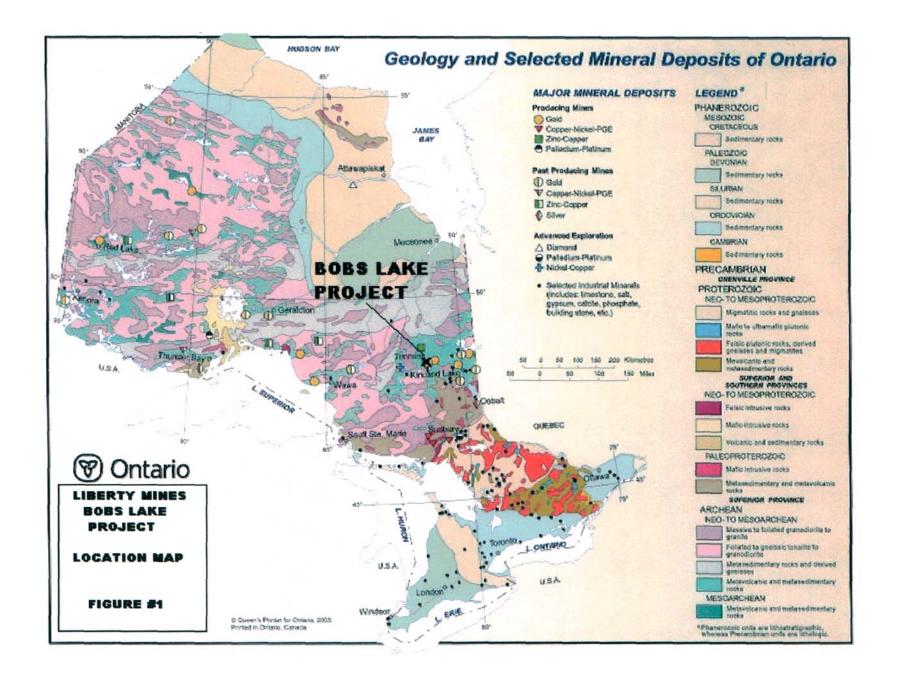
#### INTRODUCTION

The following exploration work involved conducting a diamond drill program on the Bobs Lake Property owned by Liberty Mines Inc. The property consists of 9 contiguous unpatented mining claims (14 units) located in the central portion of Whitney Townships, Porcupine Mining Division, District of Cochrane. This work was comprised of 200m of BQ diamond drilling which was carried out between March 24<sup>th</sup> and 28<sup>th</sup>, 2005.

This program was set-up to test a previously outlined Induced Polarization anomaly (Liberty Mineral Exploration, 2003). In 2005 a trenching program was carried out in an attempt to explain this same anomaly but met with little success due to overburden and ground water conditions.

Historically, the Destor Porcupine Fault, and related fault systems have hosted numerous current and past producing gold mines, making this property of particular interest.

This report deals with the diamond drilling program and results of the same.



## LOCATION AND ACCESS

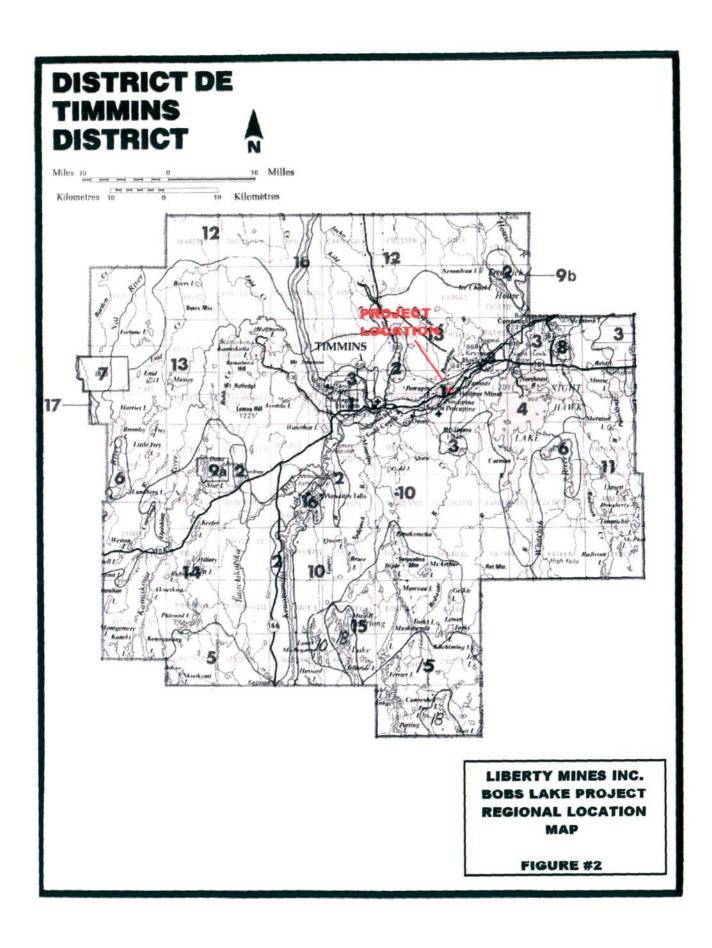
The Bobs Lake Property is located within the central portion of Whitney Township, Porcupine Mining Division, District of Cochrane, Ontario. It is made up of nine contiguous unpatented mining claims (14 units).

The property is situated approximately 14km. east-northeast of the city of Timmins, Ontario.

Access was gained via Hwy.101 east from the city of Timmins to Bobs Lake, which is just east of Porcupine. This Hwy. runs east-west and is situated about 100m north of Bobs Lake, cutting through the line surveyed, providing excellent access.

## **PERSONNEL**

The following people were directly involved with supervisi	ing this drill program.
Project SupervisionDoug Robinson	Kirkland Lake, Ontario



#### **CLAIMS**

The Bobs Lake property is made up of 9 contiguous unpatented mining claims (14 unit), located in the central section of Whitney Township, Porcupine Mining Division, District of Cochrane (Figure #3).

The current work program was carried out on one of the 9 claims (1236570 – 1 unit) that make up the property. Whitney Township is a subdivided Township and the following is a list of the claims that make up the Bobs Lake Property, as well as a Lot and Concession description of the same.

Claim #	# of Units	Lot and Concession
1236319	1	NW ¼, N ½, Lot 5, Con IV
1236322	1	NE ¼, N½, Lot 5, Con IV
1236320	1	NE ¼, N½, Lot 6 Con IV
1235958	1	SE ¼, N ½, Lot 6 Con IV
3015955	1	NW 1/4, N 1/2, Lot 6 Con IV
1236570	1	NW ¼, S ½, Lot 6 Con IV
3017301	3	SW ¼, N ½, Lot 6 Con IV
		E ½, N½, Lot 7 Con IV
4207718	2	W ½, N ½, Lot 7 Con IV
3017299	2	E ½, N½, Lot 8 Con IV
3017300	1	
	NW 1/4 N	1½ Lot 8 Con IV

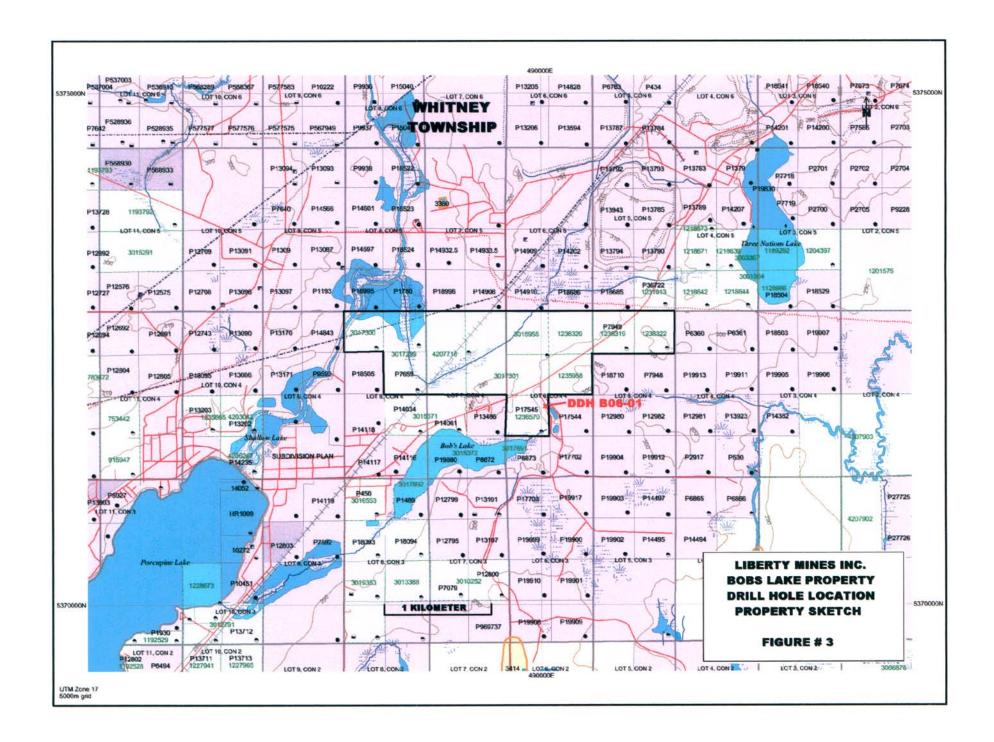
#### **GENERAL GEOLOGY**

The property is shown on the Timmins-Kirkland Lake Map No. 2205, to be situated within the Abitibi Greenstone Belt, which covers much of northeastern Ontario and Northwestern Ouebec.

Generally this belt is underlain by a variety of mafic to felsic volcanics and related sediments as well as felsic to ultramafic intrusive.

Locally, the grid is shown to be underlain by Early Precambrian Metasediments and Metavolcanics, Map P.3172, Structural Geology of Whitney Township, shows the survey area to be situated over and immediately south of, the Destor Porcupine Fault.

Exploration activity in the Nighthawk Lake area to the east has proven that structures related to the main Destor Porcupine Fault such as cross faults or splays can also host economic gold deposits. It is because of this recent activity as well as the history of the Destor Porcupine Fault that this property was acquired.



#### PREVIOUS WORK

Although a considerable amount of work has been done in the immediate area, a search of the assessment files showed that only a limited amount of work has been filed covering the current project area. The following is a brief list of the work carried out on Bobs Lake.

### 1946- NEW BOBS LAKE GOLD MINES LIMITED:

- 1 Diamond drill hole

#### 1987- SHERADAN:

- Reconnaissance magnetometer survey

#### 1996- STEVE ANDERSON

- Total field magnetometer survey

# 1998- STERLINGMARC MINING

- HLEM survey

#### 2001- STEVE ANDERSON

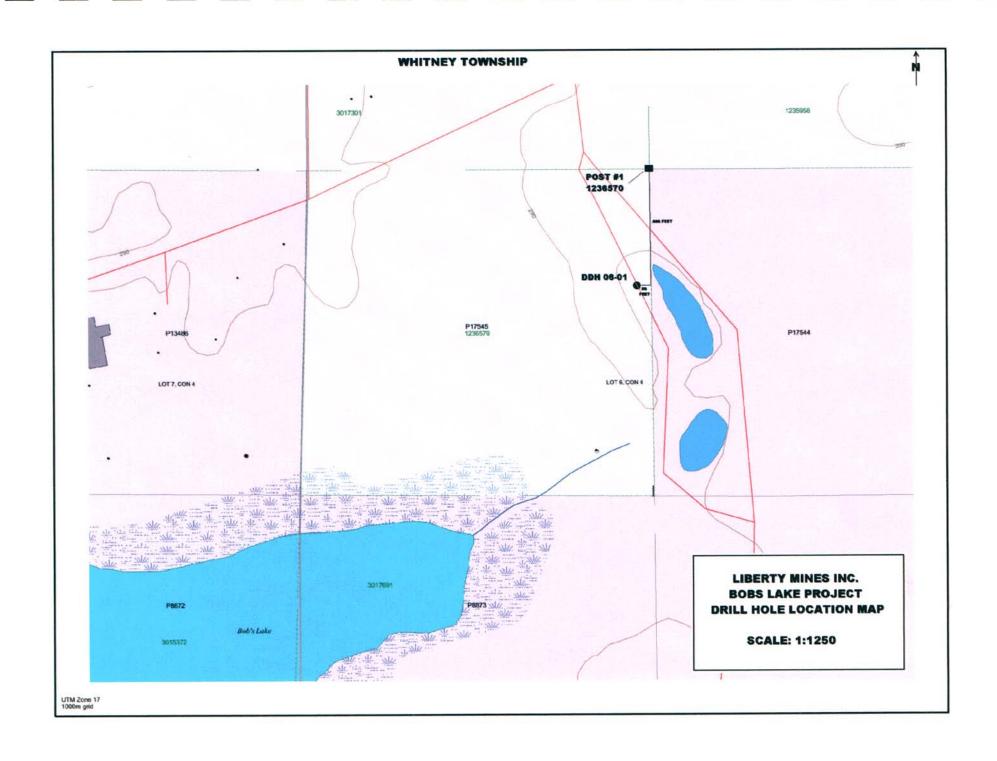
-Induced Polarization survey

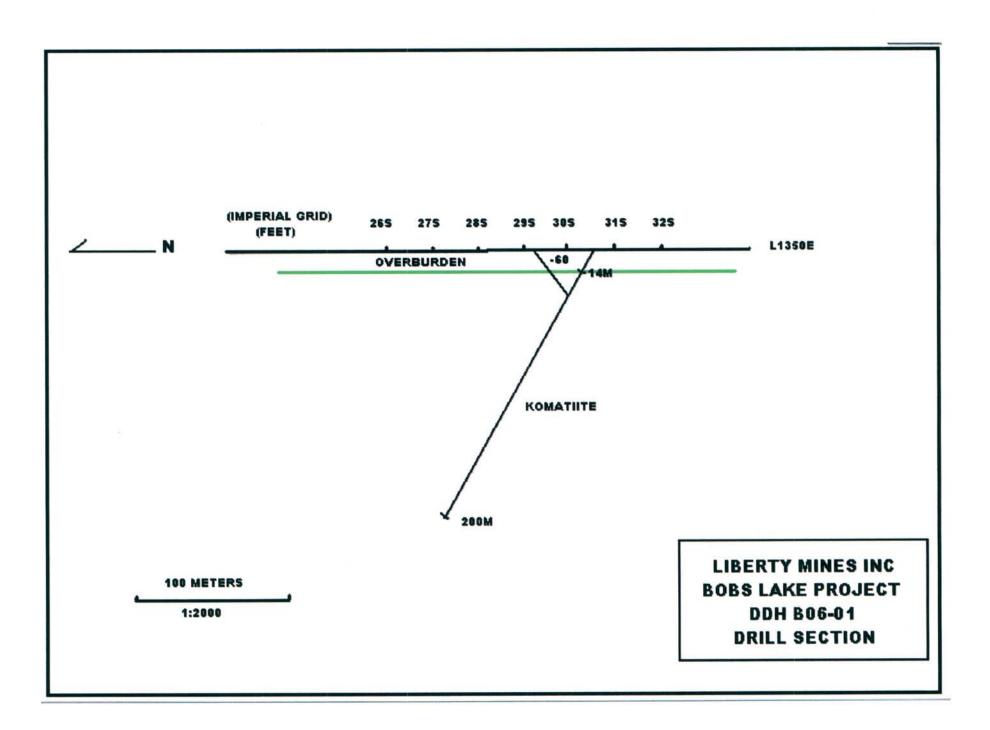
#### 2002-3 - LIBERTY MINERAL EXPLORATION

-Induced Polarization, Magnetometer

#### **WORK PROGRAM**

A total 5 day was spent drilling DDH-B06-01 to a depth of 200 meters. This hole was drilled between grid lines at 1350E/3050S (imperial grid), at an azimuth of 0 degrees and a dip of -60 degrees. The IP zone to be tested was located between 3000S-2800S on this previously established grid.





#### WORK PROGRAM RESULTS

The detailed drill log for DDH B06-01 can be found under appendix A of this report. The drill hole encountered bedrock at a depth of 14 meters. The remainder of the hole was in a komatiite with no apparent sulphide mineralization. As a result the anomaly being tested remains unresolved.

# RECOMMENDATIONS AND CONCLUSIONS

As mentioned under results, the diamond drill program did not explain the source of the IP anomaly being tested. Also, the drill hole did not reach the geological contact that is known to occur between the sediments to the north, as exposed in a 2005 trenching program and the ultramafic rocks which occur to the south as shown by the current drill program.

As a result this zone remains unresolved and requires additional testing. This should be done by drilling a second hole on the same line but in the opposite direction. This should test the contact between the sediments and the ultramafic rocks and hopefully explain the source of the IP anomaly.

# **CERTIFICATION**

- I, Steve Anderson of Timmins, Ontario hereby certify that:
- 1. I hold a three-year Geological Technologist Diploma from Sir Sandford Fleming College, Lindsay, Ontario, obtained in May 1981.
- 2. I have been practising my profession since 1979 in Ontario, Quebec, Nova Scotia, New Brunswick, Newfoundland, NWT, Manitoba, and Saskatchewan.
- 3. I have been employed directly with Asamera Oil Inc. Urangellschaft Canada Ltd. Nanisivik Mines Ltd., R.S. Middleton Exploration Services Ltd., Rayan Exploration Ltd. and am currently co-owner of Vision Exploration.
- 4. I have based conclusions and recommendations contained in this report on knowledge of the area, my previous experience and on the results of the fieldwork conducted on the property between 2001and 2006.
- 5. I am currently on the board of directors of Liberty Mineral Exploration and hold an interest in the NSR on the subject property.

Dated this 7th day of April, 2006

at Timmins, Ontario.

APPENDIX A

DRILL LOG DDH B06-01 DIAMOND DRILL LOG RECORD

HOLE #: B06-01

Drilling Company: 2019491 Ontario Inc.

Date Started: March 24, 2006

Date Completed: March 28, 2006

Hole Length: 194 Meters

Log Completed: April, 2006

Logged by: Douglas Robinson

Core size: BQ

Rig Type: Longyear 38

Shell & Core barrel Notes:

Hex Shell

Stabilizing core barrel

Casing: Left

Collar Grid Data and orientation

Grid Line: 1350E (imperial grid)

Station: 3050S (imperial grid)

Elevation: n.a.

Azimuth: 0°00 Az @ -60 degrees

Mine Grid;

Wedging Data n.a.

Depth Direction Wedge Type Cemented n.a.,

NTS: xx/x

Lot: n.a.

Latitude: xxxx

Longitude. xxxx

Map Ref. No.: OGS 2455 Scale 1:50,000 (Magnetic Declination 12°19'W)

Property: Bob's Lake Property

Township/Area: Whitney Township

South of Timmins, Ontario

Claim No.: 1236570

Concession/Range: .

Depth	Azimuth	Dip	Depth	Azimuth	Dip	Depth	Azimuth	Dip	Depth	Azimuth	Dip
0.00	000° 00'	-x° 00'		xxx° 00′	-x° 00'		x° 00'	-x <sub>o</sub> 00,		x° 00'	-x° 00'
	x° 00'	-x° 00'		x° 00'	-x° 00'		x° 00'	-x° 00'		x° 00'	-x° 00'
	x° 00'	-x° 00'		x° 00'	-x° 00'		x° 00'	-x° 00'		x° 00'	-x° 00'
	x° 00'	-x° 00'		x° 00'	-x° 00'		x° 00'	-x° 00'		x° 00'	-x° 00'
	x° 00'	-x° 00'		x <sub>o</sub> 00,	-x° 00'		x° 00'	-x° 00'		x° 00'	-x° 00'
	x° 00'	-x° 00'		x° 00'	-x° 00'		x° 00'	-x° 00'		x° 00'	-x° 00'
	x° 00'	-x° 00'		x° 00'	-x° 00'		x° 00'	-x° 00'		x° 00'	-x° 00'
	×° 00'	-x° 00'		x <sub>o</sub> 00,	-x° 00'		x° 00'	-x° 00'		x° 00'	-x° 00'

Hole # R06-01 Logged by D.R. Robinson

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Feet %Ni 9

%Cu

Auppb Ptppb Pdppb

	x° 00'	-x° 00'	x° 00'	-x° 00'	x° 00′	-x° 00'			x° 00'	-x° 00'	
	x° 00'	-x° 00'	x° 00'	-x° 00'	x° 00'	-x° 00'			x° 00'	-x° 00'	
	x° 00'	-x° 00'	x° 00'	-x° 00'	x° 00'	-x° 00'			x° 00'	-x° 00'	
	×° 00'	-x° 00'	x° 00'	-x° 00'	x° 00'	-x° 00'			x° 00'	-x° 00'	
	x0° 00'	-x° 00′	x° 00'	-x° 00'	x° 00'	-x° 00'			x° 00'	-x° 00'	
	x° 00'	-x° 00'	x° 00'	-x° 00'	x° 00'	-x° 00'			x° 00'	-x° 00'	
	0x <sub>o</sub> 00,	-x° 00'	x° 00'	-x° 00'	x° 00'	-x° 00'			x° 00'	-x° 00'	
l gm/toi	nne=1000 <sub>F</sub>	ppb									
From 0.00	To 14.00	Description OVERBURDEN				Sample	From	То	Feet	%Ni	
14.00	63.90	Komatiite (Min	on Cur ar	an Vananco)							
	Moderately soft ( <nail), (<<nail="" 0.2-0.5mm="" 1="" 19991="" 20.54="" 20.54-22.00="" 22.00="" 23.50-29.00="" 23.50-59.00="" absent="" alteration="" analysis="" and="" as="" at="" bad="" bands,="" below.="" carbonate="" dark="" described="" except="" filling="" fracture="" fracturing.="" generally="" green="" ground="" ground.="" harder="" locations="" magnetic="" magnetic.="" many="" moderately="" normal.="" noted="" occur="" oriented="" polygonal="" poor="" probable="" randomly="" rock="" serpentine="" slips,<="" soapy="" soft="" structures="" structures.="" talc-serpentine="" th="" than="" to="" veining="" very="" where="" whole="" with=""><th>1.46</th><th>0.129</th></nail),>								1.46	0.129	
		Numerous 24.35 Pale green	slips have asbestos in	minor asbestos of slip.	or flaky serpentine		nar serpe	entine.			
		27.20 60° 6.0 calcite serpentine vein with strong slip walls.									
		29.00 20° 6.0cm calcite vein with flaky serpentine 30.23-30.28 Spinifex texture to 1.5cm interrupted by slip at 30.28m.									
						.28m.					
		30.50-35.00 00-1 Vein appea		e vein to 3.0cm i w polygonal stru							
						3					
		39.30-39.60 Fault as Fine dark green gouge and crude asbestos.									

Hole # R06-01 Logged by D.R. Robinson

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Probably low angle to core axis.

Feet %Ni %Cu Auppb Ptppb Pdppb

39.60-42.50 Polygonal structures.

42.08 30° 9.0cm calcite-asbestos vein with slip walls.

42.40 40° 4.0cm calcite-asbestos vein with slip walls.

53.50-59.50 Polygonal structures common.

59.50-63.90 Spinifex texture to 8.0cm as coarse open fabric.

#### Mineralization:

Tested by dimethylglyoxime at 0.75m intervals; no reaction.

42.83-44.00Whole rock analysis.

19992 42.83 44.00 1.17 0.120

60.10-61.60 Whole rock analysis.

19993 60.10 61.60 1.50 0.080

#### 63.90 193.28 KOMATIITE (1-5% CALCITE-DOLOMITE VEINING)

Dark serpentine green, soft (<<nail) with moderately soft (<nail) sections.

Alternating fine grained <0.5 to <0.2mm massive between polygonal structures

to 0.5-1.0mm textured in massive komatiite.

From 63.90-95.00 Generally moderately magnetic with short none magnetic sections.

From 95.00-193.28 none magnetic except for,

a few blocks in polygonal structures which are magnetic.

Probable polygonal structures as randomly oriented 0.2-0.5mm dark green bands,

very soft (<<nail to = fingernail) at locations described below.

Polygonal structures at 66.70-69.50, 70.40-72.00, 73.10-80.30, 81.90, 89.00-91.80

115.20-119.20, 130.75-133.50 and 166.56-168.50

From 91.80-114.00 some vague polygonal structures may occur.

From 141.00-156.00 polygonal structures are common

63.90-82.00 Moderate competent ground.

Healed fracturing has bleached pale grey edges.

65.50-66.76 40% wt calcite fracture filling.

72.20 35° 10.0cm calcite vein with slickensided walls.

82.00-94.00 Bad ground with numerous calcite-asbestos fracture filling and slips commonly at 10-20° and 45° to core axis along polygonal structures.

94.00-98.00 Competent ground with 5% calcite and minor magnesite fracture filling.

98.00-103.00 Moderate competent ground with

10% calcite fracture filling at 00-10° to core axis.

95.00-96.44 Whole rock analysis. 19994 95.00 96.44 1.44 0.099 103.00-107.50 Competent ground with minor calcite fracture filling. 107.50-109.00 Competent ground with 5% calcite fracture filling and some dolomite or magnesite fracture filling. 109.00-112.88 Medium chlorite green, very soft (<<nail) at the ends and hard (>nail) in central portion. Patchy pervasive calcite alteration, locally intense massive chlorite. 10% calcite fracture filling, in part random and in part as schistose banding. 110.77-112.24 19995 110.77 112.24 1.47 0.057 112.88-117.40 50% Intensely carbonate (Magnesite?) alteration as foliation at low angle to core axis. None magnetic. 117.40-133.00 5% carbonate fracture filling as calcite and dolomite(?). 124.05-124.25 Poorly developed spinifex texture to 2.0cm. 125.07-125.17 Chlorite zone, very fine grained. 126.50-126.66 Poorly developed spinifex texture? 133.00-138.00 Minor calcite and dolomite fracture filling. 134.00-137.70 Medium chlorite green, massive, fine grained, soft (<< nail), in large part moderately magnetic. 138.00-173.00 5-15% magnesite(?) fracture filling with minor calcite fracture filling. 162.63-163.18 20° Carbonate vein (dolomite?) effervesces weakly in HCl. 162.82-163.00 Whole rock 19996 162.82 163.00 0.18 0.010 173.00-180.44 Massive with moderate to strong foliation overprint at 05-29° to core axis. 5% magnesite(?) bands parallel to foliation. Soft (<< nail), none magnetic. 171.20-173.10 Whole rock serpentine and talc? 19997 171.70 173.10 1.40 0.105 180.44-193.28 Medium chlorite green, massive, none magnetic moderately soft to moderately hard (<nail). 188.26 193.28 2-5% cal fracture filling, generally 05-20° to core axis. Locally moderately to strong pervasive calcite alteration 1287.60-190.14 5% calcite fracture filling with 50% black tourmaline needles to 0.3x3mm 187.60-188.00 Whole rock 19998 187.60 188.00 0.40 0.051

Hole # R06-01 Logged by D.R. Robinson

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Feet %Ni %Cu Auppb Ptppb Pdppb

#### Mineralization:

Tested by dimethylglyoxime at 0.75m intervals with no reaction except as noted below.

At 72.77, 95.30, 96.90, 118.56, 119.10, 121.90, 134.24, 135.12, 139.74, 141.20, 142.00, 143.70, 144.25, 148.58, 149.25, 156.62, 157.30, 158.08, 158.68, 160.12, 170.47, 173.45, 189.30, 190.85, 191.55 and 103.25 and another crimina.

189.30, 190.85, 191.55 and 192.25 carbonate veining was temporarily stained faint pink by dimethylglyoxime and faded within 15 minutes.

95.00-96.44 Whole Rock analysis: calcite veining stained 19994 95.00 96.44 1.44 temporarily pale pink

110.77 112.24 Whole rock analysis of 1995 110.77 112.24 1.47 chloritic zone described above

188.29 Trace sulphides in tourmaline alteration stained pale pink by dimethylglyoxime.

193.28 END OF HOLE