

1.

Diamond Drill Hole: DDH- PN-99-01

Northing(m):
Easting (m):
Elevation (m):
Collar Azimuth: —
Hole Depth: 36.0 m
Area: Powderhorn Lake North Property

Collar Dip: 90

Drilled by: Aurora Drilling Inc. for Copper Hill Resources Inc.
Core Size: BQ
Date: Oct 21-22/99
Logged by: W. Jacobs
Licence:
NTS: 12 H/1

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From (m)	To (m)	Description	Core Angle	Mineralization	Sample No.	Interval (m)	Assay
0.0	6.4	Casing / Overburden					
6.4	26.8	<u>Felsic (Rhyolite?) Volcanic Flow</u> Porphyritic texture, with 1-3mm size blue quartz phenocrysts scattered throughout. Fine-grained matrix characterized by strongly banded/foliated, mottled-colored, dark and light grey to greenish-grey colors reflecting variable degrees of silicification and lesser sericitization. Dark grey and green (chloritic?) material defining same foliation bands.	65-70°				

2 Diamond Drill Hole: DDH- PN-99-01							
Northing(m): Easting (m): Elevation (m): Collar Azimuth: — Collar Dip: 90° Hole Depth: 36.0 m Area: Powderhorn Lake North				Drilled by: Aurora Drilling Inc. For: Copper Hill Resources Inc. Core Size: 30 Date: Oct 21-22/99 Logged by: W. Jacobs Licence: NTS: 12H/1			
From (m)	To (m)	Description	Core Angle	Mineralization	Sample No.	Interval (m)	(m)
		Blue-grey phytic felsic Volc unit -- continued ...					
		6.4 - 10.4 Weathered zone: Strongly bleached, pale greenish-white to white siliceous rock with trace to 0.5% dissem. py. Abundant rusty fractures. @ 7.0 - 8.0 m - 0.5m core loss @ 9.4 - 10.4 m - 1.0m core loss		Py	ADP1-99-001	6.4 - 9.4 (3.5m recoverable core)	3.0 (3.5)
					ADP1-99-002	9.4 - 10.4 (0.5m recoverable core)	1.0 (0.5)
					ADP1-99-003	10.4 - 12.0	1.6
		10.4 - 12.0 Strongly silicified with occasional scattered (possible relic tuft) fragments altered to chlorite and sericite. Zones of white silicification occur as bands parallel to foliation, local cross-cutting veinlets, and as irregular replacement zones up to 20 cm wide (bands and					

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Nov. 10 1999 12:22AM P3

DATE: 11/10/99 TIME: 12:22 PM

PHONE NO. : 7097455128

FROM: ZENITH, SANBORN 10, PAPER: 00000000

FROM : JACOBIA-RESOURCES

B. Diamond Drill Hole: DDH- PN-99-01							
Northing(m): Easting (m): Elevation (m): Collar Azimuth: — Collar Dip: 90° Hole Depth: 36.0 m Area: Powderhorn Lake North				Drilled by: Aurora Drilling Inc. for Copper Hill Resources Inc. Core Size: BQ Date: Oct 21/99 Logged by: W. Jacobs Licence: NTS: 12H/1			
From (m)	To (m)	Description	Core Angle	Mineralization	Sample No.	Interval (m)	Assay
		Blue-grey porphyritic felts contain					
		Venetis of silica have diffuse (non-discrete) boundaries. Trace finely disseminated pyrite <u>12.0 - 18.0</u> Variably colored, mottled textured, pale green, gray to creamy white fabric resulting from variable degrees of silica flooding throughout. Silicification occurs mainly as bands parallel to foliation though, locally, as 1-2 cm wide venetis. The latter shows some pyroclastic folding and dissection in places due to metamorphism. Tr. disseminated pyrite. @ 14.4 m - Minor x-cutting silica venetis (w/ micro-breccia) hosting			PN01-99-004 PN01-99-005 PN01-99-006 PN01-99-007	12.0 - 14.0 14.0 - 15.0 15.0 - 17.0 17.0 - 18.0	2.0 1.0 2.0 1.0

FROM : JACOBA-RESOURCES

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Diamond Drill Hole: DDH- PN-99-01

Drilled by: Aurora Drilling Inc. for Copper Hill Resources Inc.

Core Size: 3G

Date: Oct 21-22/99

Logged by: W. Jacobs

Licence:

NTS: 12H/1

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Northing(m):

Easting (m):

Elevation (m):

Collar Azimuth: — Collar Dip: 90°

Hole Depth: 36.0 m

Area: Powderhorn Lake North Area

From (m)	To (m)	Description	Core Angle	Mineralization	Sample No.	Interval (m)	(m)	Assay
		Blue-grey porphyritic felsic tuffs carbon-						
		small orange-brown spots indicating possibly K-feldspar (potassic alteration?).						
		18.0-20.0			PN01-99-008	18.0-19.0	1.0	
		Dark green, more finely banded unit reflecting alteration silica-rich and possibly chlorite rich compositional change.			PN01-99-009	19.0-20.0	1.0	
		@ 18.0-19.0 - Trace disseminated py		Tr py				
		@ 19.0-20.0 - Trace disseminated py, chalcopyrite & sphalerite (cpy + sph up to 0.5% locally)		Tr py, cpy & sph				
		20.0-24.5			PN01-99-010	20.0-21.0	1.0	
		Strongly banded, light grey and bluish-grey silicification (mottled alteration) with minor			PN01-99-011	21.0-22.3	1.3	
					PN01-99-012	22.3-23.0	0.7	
					PN01-99-013	23.0-24.0	1.0	
					PN01-99-014	24.0-24.5	0.5	

Nov. 10 1999 12:24PM PST

PHONE NO. : 7897455128

FROM: JACOB-RESOURCES

5. Diamond Drill Hole: DDH-PN-99-01							
Northing(m): Easting (m): Elevation (m): Collar Azimuth: — Collar Dip: 90° Hole Depth: 36.0 m Area: Powderhorn Lake North Area				Drilled by: Aurora Drilling Inc for Copper Hill Res. Inc. Core Size: BQ Date: Oct 21-22/99 Logged by: W. Jacobs Licence: NTS: 12 H/1			
From (m)	To (m)	Description	Core Angle	Mineralization	Sample No.	Interval (m)	Assay (m)
		Blue-grey porphyritic fine blue carbon...					
		pinkish-brown patches within the siliceous zones. Slight crenulation folds/fabrics in places. Generally 0.5-1% disseminated, stringer and fracture fillings of pyrite, pyrrhotite, chalcopyrite and sphalerite (mineralization aligned along the foliation planes). Occasional distinct blue quartz phenocrysts 1-2mm in size.	60°	py, po, cpy & sph			
		24.5-26.8 Strongly foliated/banded, light to medium greenish-grey with 10-20% dark burgundy-colored bands of semi-massive sphalerite (0.3-2.0 cm wide) these consisting also of 0.5-1% clotted pyrite and trace to 0.5% chalcopyrite. A couple of 10-20 cm wide sphalerite-rich sections having repetitive banding over 0.5-1.0 cm intervals.	55-60°	semi-massive sph minor py, cpy	PN01-99-015 PN01-99-016 PN01-99-017 PN01-99-018 PN01-99-019	24.5-25.0 25.0-25.5 25.5-25.58 25.58-26.0 26.0-26.8	0.5 0.5 2.08 2.42 0.8

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6. Diamond Drill Hole: DDH- PN-99-01							
Northing(m): Easting (m): Elevation (m): Collar Azimuth: — Collar Dip: 90° Hole Depth: 36.0 m Area: Powderhorn Lake North				Drilled by: Aurora Drilling Inc. For Copper Hill Resources Inc. Core Size: 30 Date: Oct 21-22/99 Logged by: W. Jacobs Licence: NTS: 124/3			
From (m)	To (m)	Description	Core Angle	Mineralization	Sample No.	Interval (m)	Assay
26.8	29.0	<u>Felsic Crystal Tuff?</u> Dark grey to bluish grey siliceous matrix having an abundance of 0.5-2.0 mm size bluish quartz crystals. Strongly magnetic. Fine-grained, indistinct, black hairline stringer material occurring parallel to foliation.	60-70°		PN01-99-020 PN01-99-021	26.8 - 27.0 27.0 - 29.0	0.2 2.0
29.0	29.8	<u>Mafic Volcanic Unit</u> Fine-grained, blackish-green to dark purplish-brown, banded texture with patchy epidote bands/lenses, 0.5-4.0 cm wide. Small reddish-brown patches within the epidote representing fine-grained garnet clusters. Magnetic. 0.5-1% fine pyrite stringers parallel to foliation.			PN01-99-022	29.0 - 29.8	0.8

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From (m)	To (m)	Description	Core Angle	Mineralization	Sample No.	Interval (m)	(m)	Assay
7. Diamond Drill Hole: DDH- PN-99-01 Northing(m): Easting(m): Elevation(m): Collar Azimuth: — Collar Dip: 90° Hole Depth: 36.0 m Area: Powder Horn Lake North Drilled by: <i>Arona Drilling Inc</i> For <i>Copper Hill Res. Inc.</i> Core Size: <i>BQ</i> Date: <i>Oct 21-22/99</i> Logged by: <i>W. Jacobs</i> Licence: NTS: <i>124/1</i> P. 7 of 7								
29.8	33.8	<u>Felsic Volcanics</u> Siliceous, dark-light bluish-grey to greenish-grey banded (a banded) texture/color @ 30.0 - 32.0 → 60-65° @ 32.0 - 33.0 → 50°			PN01-99-023 PN01-99-024	29.8 - 31.8 31.8 - 33.8	2.0 2.0	
33.8	36.0	<u>Mafic Dyke</u> Fine grained, blackish-green, strongly magnetic Non-foliated.						