

## DETAILED LOG

Hole Number: ES2005-50

Units: METRIC

Project Name: Norway - Espedalen	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -69.00
Project Number: 201	North: 6807042.21	North: 61.40	Collar Az: 231.00
Location: Surface	East: 529061.80	East: 9.54	Length: 76.85 (m)
	Elev: 1097.31	Elev: 1097.31	Start Depth: 0.00 (m)
Date Started: Sep 23, 2005	Collar Survey: Y	Plugged: N	Contractor: Arctic Drilling A/S
Date Completed: Sep 24, 2005	Multishot Survey: N	Hole Size: TT46	Core Storage: Strand Fjellstue
Logged By: larsw	Pulse EM Survey: N	Casing: Left in Hole, capped	Final Depth: 76.85 (m)

Comments: Purpose: Hole proposed to test a large conductive plate (500m x 150m), with a conductivity of 175 Siemens, which was defined with the 2003 UTEM survey (Conductor B).

Result: The hole collared intermixed interpreted jotunites and mafic metavolcanics to a depth of 45.90m, afterwhich sulphidic sediments were intersected from 45.90-69.94m. Sulphidic sediments contained trace to 5% fine grained pyrrhotite and pyrite, with concentrations locally up to 10-15% (66.80-68.03m). The hole finished at 76.85m within mafic metavolcanics.

Assays: No significant results returned, all samples <0.05%Ni.

Lithological interpretation: Intersected intermixed package of jotunites and sulphidic sediments (Heim's "hybrid rocks") which likely represent basement rocks of the Espedalen Complex.

## Sample Averages

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	0.80	C, Casing							

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From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0.80	41.12	<p>MV, Mafic Volcanic</p> <p>This unit consists of a black and white, plagioclase (~40%), pyroxene (~50%) and alteration mineral (~10%)-bearing, non-magnetic mafic rock. The unit is homogeneous on a meter scale; the appearance changes due to grain size differences. The rock is only locally weakly foliated. Locally, anatectic textures occur.</p> <p>The lower contact of this unit is sharp at 70 degrees tca.</p> <p>Structure 23.75 - 23.76 : S1 First Foliation, 55 Deg to CA</p> <p>RQD</p> <p>0.80 - 3.00 : 23.00 % RQD 100.00 % Core 3.00 - 6.00 : 57.00 % RQD 100.00 % Core 6.00 - 9.00 : 50.00 % RQD 100.00 % Core 9.00 - 12.00 : 73.00 % RQD 100.00 % Core 12.00 - 15.00 : 70.00 % RQD 100.00 % Core 15.00 - 18.00 : 50.00 % RQD 100.00 % Core 18.00 - 21.00 : 73.00 % RQD 100.00 % Core 21.00 - 24.00 : 83.00 % RQD 100.00 % Core 24.00 - 27.00 : 78.00 % RQD 100.00 % Core 27.00 - 30.00 : 57.00 % RQD 100.00 % Core 30.00 - 33.00 : 63.00 % RQD 100.00 % Core 33.00 - 36.00 : 20.00 % RQD 100.00 % Core 36.00 - 39.00 : 17.00 % RQD 100.00 % Core 39.00 - 42.00 : 20.00 % RQD 100.00 % Core</p>							
41.12	45.90	<p>1, Jotunite</p> <p>This thin unit consists of an inhomogeneous, non-magnetic, quartz, plagioclase, and mafic mineral-bearing, gray and white rock. Most of this unit is strongly sheared; the "original" gneissic textures is preserved only locally, here the rock is coarse-grained. The lower contact is sheared at 60 degrees tca.</p> <p>This unit is not mineralized.</p> <p>Structure 43.69 - 43.70 : S1 First Foliation, 55 Deg to CA</p> <p>RQD</p> <p>42.00 - 45.00 : 47.00 % RQD 100.00 % Core 45.00 - 48.00 : 44.00 % RQD 100.00 % Core</p>							

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From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
45.90	69.94	FGN, Felsic Gneiss	PG00424	63.50	64.77	1.27	0.0250	0.0250	0.0100
		This unit consists of a fine to medium-grained, light gray, locally moderately to well-foliated, siliceous, plagioclase-rich metasediment. The unit is fairly homogeneous on a meter scale but shows variations on a smaller scale (bedding?). The lower contact is sheared at 50 degrees tca. Abundant sulfides (pyrrhotite and pyrite) occur as seemingly remobilized veinlets and patchy to blebby concentrations. Where pyrrhotite is abundant the magnetic susceptibility is high, elsewhere the unit is non-magnetic. Mineralization 59.21 - 59.37 : Po Pyrrhotite, STR Stringers, 15% remobilized 59.21 - 59.37 : Py Pyrite, STR Stringers, 5% remobilized 64.77 - 66.80 : Po Pyrrhotite, TR Trace, 0.5% mm-scale remobilized veinlets 66.80 - 68.03 : Po Pyrrhotite, STR Stringers, 10% remobilized 66.80 - 68.03 : Py Pyrite, STR Stringers, 5% remobilized 68.03 - 69.94 : Po Pyrrhotite, STR Stringers, 4% remobilized in dm-scale "zones" 68.03 - 69.94 : Py Pyrite, STR Stringers, 1% remobilized in dm-scale "zones" Structure 53.53 - 53.54 : S1 First Foliation, 60 Deg to CA RQD 48.00 - 51.00 : 67.00 % RQD 100.00 % Core 51.00 - 54.00 : 66.00 % RQD 100.00 % Core 54.00 - 57.00 : 50.00 % RQD 100.00 % Core 57.00 - 60.00 : 40.00 % RQD 100.00 % Core 60.00 - 63.00 : 80.00 % RQD 100.00 % Core 63.00 - 66.00 : 57.00 % RQD 100.00 % Core 66.00 - 69.00 : 62.00 % RQD 100.00 % Core 69.00 - 72.00 : 58.00 % RQD 100.00 % Core	PG00426	64.77	65.77	1.00	0.0250	0.0250	0.0100
			PG00427	65.77	66.80	1.03	0.0250	0.0250	0.0100
			PG00428	66.80	68.03	1.23	0.0250	0.0250	0.0100
			PG00429	68.03	69.00	0.97	0.0250	0.0250	0.0100
			PG00430	69.00	69.94	0.94	0.0250	0.0250	0.0100

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From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
69.94	76.85	MV, Mafic Volcanic	PG00431	69.94	71.00	1.06	0.0250	0.0250	0.0100
		This unit consists of a black and white, plagioclase (~40%), pyroxene (~50%) and alteration mineral (~10%)-bearing, non-magnetic mafic rock. The unit is homogeneous on a meter scale; the appearance changes due to grain size differences. The rock is only locally weakly foliated. Locally, anatectic textures occur.	PG00432	71.00	72.00	1.00	0.0250	0.0250	0.0100
		The upper contact is sheared over ~1m. The lower contact was not intersected as the hole was shut down.							
		In the upper ~1m this unit contains mm-scale remobilized sulfide (po, py) veinlets.							
		Structure							
		70.49 - 70.50 : S1 First Foliation, 65 Deg to CA							
		76.30 - 76.31 : S1 First Foliation, 50 Deg to CA							
		RQD							
		72.00 - 76.85 : 56.00 % RQD 100.00 % Core							

## Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
PG00424	63.50	64.77	0.0250	0.0250	0.0100
PG00426	64.77	65.77	0.0250	0.0250	0.0100
PG00427	65.77	66.80	0.0250	0.0250	0.0100
PG00428	66.80	68.03	0.0250	0.0250	0.0100
PG00429	68.03	69.00	0.0250	0.0250	0.0100
PG00430	69.00	69.94	0.0250	0.0250	0.0100
PG00431	69.94	71.00	0.0250	0.0250	0.0100
PG00432	71.00	72.00	0.0250	0.0250	0.0100