

## DETAILED LOG

Hole Number: ES2005-23

Units: METRIC

Project Name: Norway - Espedalen	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -44.83
Project Number: 201	North: 6801339.30	North: 61.34	Collar Az: 232.77
Location: Surface	East: 535023.10	East: 9.65	Length: 61.30 (m)
	Elev: 990.06	Elev: 990.06	Start Depth: 0.00 (m)
Date Started: Mar 30, 2005	Collar Survey: Y	Plugged: N	Contractor: Arctic Drilling A/S
Date Completed: Mar 31, 2005	Multishot Survey: Y	Hole Size: TT46	Core Storage: Strand Fjellstue
Logged By: Trevor Blair, Lars Weiershaeuser	Pulse EM Survey: Y	Casing: Left in Hole, capped	Final Depth: 61.30 (m)

Comments: Purpose: Test centre of UTEM conductor on L11300E, 100m grid west of holes ES2004-08 (2.07% Ni, 1.20%Cu, 0.07%Co / 2.70m (56.30-59.00m)) and ES2005-22 (3.29%Ni, 1.52%Cu, 0.10%Co / 5.67m (29.35-35.02m)).

Result: Intersected cm scale sulphide veinlets (po-pn-cpy) within a mafic dyke, from 26.77m-27.27m (0.55m).

Assays: 2.28%Ni, 0.86%Cu, 0.06%Co / 0.50m (26.77-27.27m)

Borehole UTEM: in-hole response @ 27m. Correlates with intersected mineralization.

## Sample Averages

## Survey Data

Depth (m)	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments	Depth (m)	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
0.00	232.77	-44.83	MShot	OK		5.00	232.77	-44.97	MShot	OK	
10.00	232.74	-45.03	MShot	OK		15.00	232.45	-45.18	MShot	OK	
20.00	232.34	-45.28	MShot	OK		25.00	232.45	-45.42	MShot	OK	
30.00	232.30	-45.65	MShot	OK		35.00	232.47	-45.85	MShot	OK	
40.00	232.33	-46.07	MShot	OK		45.00	232.58	-46.42	MShot	OK	
50.00	232.55	-46.83	MShot	OK		55.00	232.51	-47.20	MShot	OK	
59.00	232.70	-47.23	MShot	OK							

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	2.20	C, Casing							

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Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
2.20	61.30	4s, Sausseritized/Tectonized Anorthosite	PG03808	25.52	26.77	1.25	0.1700	0.0800	0.0100
		Fine-grained white to gray , non-magnetic, heterogeneous, foliated anorthosite.	PG03809	26.77	27.27	0.50	2.2800	0.8600	0.0600
		The rock is composed of plagioclase and alteration minerals (chlorite, hematite, minor fuchsite, ?sericite). The rock is intruded by fine-grained, dark gray to black, non-magnetic, moderately foliated, homogeneous mafic dykes (for intervals and contact relationships see minor units).	PG03810	27.27	28.52	1.25	0.0250	0.0250	0.0100
		The lower contact is unknown, as the hole was shutdown.	PG03811	28.52	29.52	1.00	0.0700	0.0250	0.0100
		The anorthosite is unmineralized							
		Alteration							
		21.00 - 25.00 :HM Hematite, ST Staining, W Weak							
		Structure							
		2.80 - 2.81 : S1 First Foliation, 60 Deg to CA							
		31.30 - 31.31 : S1 First Foliation, 50 Deg to CA							
		38.40 - 38.41 : S1 First Foliation, 70 Deg to CA							
		47.40 - 47.41 : S1 First Foliation, 60 Deg to CA							
		RQD							
		2.20 - 6.00 : 48.00 % RQD 100.00 % Core							
		6.00 - 9.00 : 84.00 % RQD 100.00 % Core							
		9.00 - 12.00 : 94.00 % RQD 100.00 % Core							
		12.00 - 15.00 : 86.00 % RQD 100.00 % Core							
		15.00 - 18.00 : 99.00 % RQD 100.00 % Core							
		18.00 - 21.00 : 99.00 % RQD 100.00 % Core							
		21.00 - 24.00 : 95.00 % RQD 100.00 % Core							
		24.00 - 27.00 : 91.00 % RQD 100.00 % Core							
		27.00 - 30.00 : 85.00 % RQD 100.00 % Core							
		30.00 - 33.00 : 94.00 % RQD 100.00 % Core							
		33.00 - 36.00 : 91.00 % RQD 100.00 % Core							
		36.00 - 39.00 : 90.00 % RQD 100.00 % Core							
		39.00 - 42.00 : 90.00 % RQD 100.00 % Core							
		42.00 - 45.00 : 89.00 % RQD 100.00 % Core							
		45.00 - 48.00 : 98.00 % RQD 100.00 % Core							
		48.00 - 51.00 : 87.00 % RQD 100.00 % Core							
		51.00 - 54.00 : 90.00 % RQD 100.00 % Core							
		54.00 - 57.00 : 98.00 % RQD 100.00 % Core							
		57.00 - 61.30 : 99.00 % RQD 100.00 % Core							

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Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		<p>MINOR INTERVALS:</p> <p>Minor Interval: 3.6 - 8.87 MD, Mafic Dike</p> <p>Fine-grained homogeneous dark gray to black mafic dyke. The upper contact is sharp at ~60 degrees tca, the lower contact is sharp at ~65 degrees tca. This dyke is unmineralized.</p> <p>Minor Interval: 25.45 - 27.27 MD, Mafic Dike</p> <p>This dyke/sill is composed of dark gray to black homogeneous fine grained non-magnetic rock. The upper contact is sharp at ~50 degrees tca. This unit is characterized by minor amounts of sulfide mineralization, consisting of ~8% po, ~1%cpy, and ~1%pn. The sulfides appear remobilized and occur in cm-scale veinlets over a ~50cm interval. The lower contact of this unit is sharp at 90 degrees tca.</p> <p>Mineralization 26.77 - 27.27 : Cpy Chalcopyrite, STR Stringers, 1% 26.77 - 27.27 : Pn Pentlandite, TR Trace, 1% 26.77 - 27.27 : Po Pyrrhotite, STR Stringers, 8% mm to cm scale remobilized veinlets</p> <p>Minor Interval: 41.3 - 41.9 MD, Mafic Dike</p> <p>Fine-grained homogeneous dark gray to black mafic dyke. The upper and lower contact is sharp but irregular. This dyke is unmineralized.</p> <p>Minor Interval: 51.85 - 60.04 MD, Mafic Dike</p> <p>Fine-grained homogeneous dark gray to black mafic dyke. The upper contact is sharp at ~60 degrees tca, the lower contact is sharp at ~65 degrees tca.</p> <p>This dyke is unmineralized.</p>							

## Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
PG03808	25.52	26.77	0.1700	0.0800	0.0100
PG03809	26.77	27.27	2.2800	0.8600	0.0600
PG03810	27.27	28.52	0.0250	0.0250	0.0100
PG03811	28.52	29.52	0.0700	0.0250	0.0100