

DETAILED LOG

Hole Number: ES2005-34

Units: METRIC

Project Name:	Norway - Espedalen	Primary Coordinates	Grid: UTM84-32N	Destination Coordinates	Grid: UTM:	Collar Dip:	-62.00
Project Number:	201	North:	6798742.01	North:	61.32	Collar Az:	230.00
Location:	Surface	East:	538149.70	East:	9.71	Length:	80.30 (m)
		Elev:	955.62	Elev:	955.62	Start Depth:	0.00 (m)
Date Started:	Jul 13, 2005	Collar Survey:	Y	Plugged:	N	Contractor:	Arctic Drilling A/S
Date Completed:	Jul 14, 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:	80.30 (m)

Comments: Purpose: To test UTEM conductor ESP_26_22, which is interpreted as 2 crosscutting conductors, each with a modelled conductivity of 500 siemens.

Result: Intersected metasediments (mylonites? according to Michael Heim) at the base of the Jotun Nappe, followed downhole by a graphite-bearing shear zone before intersecting metasediments (slates/phyllites) of the Synnfjell Nappe.

Interpretation: Hole collared outside of favourable "Espedalen Complex" but within the base of the Jotun Nappe. After intersecting a graphite-bearing shear zone, Ordovician sediments were intersected, belonging to the Synnfjell Nappe. Rock types and stratigraphic positioning discussed in person with Michael Heim.

Sample Averages

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	3.90	C, Casing							

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
41.58	80.30	5, Undivided Metasediments Slate This unit consists of a very fine-grained dark gray, non-magnetic slate. Medium to coarse-grained quartz ?sweats? are very common (ca. 30%) and emphasize the Durchbewegung of the rock. Locally, graphitic ?fault gouges can be found, although weakly conductive with ohm meter (non-conductive with conductivity meter). Structure 46.20 - 46.21 : S1 First Foliation, 70 Deg to CA 58.63 - 58.64 : S1 First Foliation, 60 Deg to CA 67.84 - 67.85 : S1 First Foliation, 75 Deg to CA 74.43 - 74.44 : S1 First Foliation, 60 Deg to CA 79.50 - 79.51 : S1 First Foliation, 65 Deg to CA RQD 43.00 - 46.00 : 65.00 % RQD 100.00 % Core 46.00 - 49.00 : 67.30 % RQD 100.00 % Core 49.00 - 52.00 : 69.30 % RQD 100.00 % Core 52.00 - 55.00 : 74.70 % RQD 100.00 % Core 55.00 - 58.00 : 36.00 % RQD 100.00 % Core 58.00 - 61.00 : 58.30 % RQD 100.00 % Core 61.00 - 64.00 : 95.70 % RQD 100.00 % Core 64.00 - 67.00 : 79.30 % RQD 100.00 % Core 67.00 - 70.00 : 73.00 % RQD 100.00 % Core 70.00 - 73.00 : 76.00 % RQD 100.00 % Core 73.00 - 76.00 : 79.00 % RQD 100.00 % Core 76.00 - 79.00 : 73.00 % RQD 100.00 % Core 79.00 - 80.30 : 72.00 % RQD 100.00 % Core MINOR INTERVALS: Minor Interval: 41.58 - 42.05 5, Undivided Metasediments Graphitic, very well-foliated ?fault zone. Structure 41.58 - 42.05 : F Fractured, 70 Deg to CA Minor Interval: 59 - 59.4 5, Undivided Metasediments Graphitic, friable ?fault zone Structure 59.00 - 59.40 friable fault gouge							