

## DETAILED LOG

Hole Number: ES2004-03

Units: METRIC

Project Name: Norway - Espedalen	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -59.00
Project Number: 201	North: 6807692.78	North: 61.40	Collar Az: 230.00
Location: Surface	East: 532792.47	East: 9.61	Length: 117.30 (m)
	Elev: 1129.08	Elev: 1129.08	Start Depth: 0.00 (m)
Date Started: Aug 10, 2004	Collar Survey: Y	Plugged: N	Contractor: Geobor-Salag A/S
Date Completed: Sep 01, 2004	Multishot Survey: N	Hole Size: T246	Core Storage: Strand Fjellstue
Logged By: Trevor Blair	Pulse EM Survey: N	Casing: Left in Hole, capped	Final Depth: 117.30 (m)

Comments: Purpose: Test UTEM conductor ESP\_09\_07. Conductivity = 600, 900 Siemens (2 plates)

Result: Hole intersected a thick package of anorthosite/anorthositic gabbro but did not reach target depth and was abandoned. Second hole was collared and re-drilled nearby as ES2004-16 by second drilling contractor. No samples taken.

## Sample Averages

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	2.90	C, Casing CASING RQD 0.00 - 2.90 : 0.00 % RQD 0 % Core							

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From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
2.90	117.30	<p>4, Anorthosite / Anorthosite Gabbro</p> <p>Medium grained, white-dark green, non-magnetic, moderately to strongly foliated anorthosite to anorthositic gabbro composed of 60% plagioclase and 40% pyroxenes. Segregational banding is present on a cm scale resulting in melanocratic and leucocratic horizons. This unit is unmineralized. Anorthositic rocks are cross-cut by cm to dm scale ultramafic (eg. 63.85-64.1m, 71.9-72.1m, 86.3-86.55m, 87.2-87.7m) and mafic dykes (eg. 49.5-49.9m, 98.1-99.7m (sheared)). Ultramafic dykes locally contain po stringers (see minor intervals).</p> <p>48.9m: 10cm wide white quartz vein; apparently lost water at this depth. 55.6-56.6m: Lost core due to broken drill rod.</p> <p>NOTE: Overall condition of core in this hole is bad with abundant broken, mis-matched and ground core. Condition largely attributed to improper drilling and core barrel emptying techniques. Disking of core likely due to high drilling pressure which also attributes to core blockages.</p> <p>Magnetic susceptibility: &lt; 1</p> <p>Interpretation: Consistent with Heim's Rock Suite 2a (Anorthosite - Anorthositic Gabbro).</p> <p>Structure</p> <p>7.35 - 7.36 : Sm General Foliation, 70 Deg to CA 29.30 - 29.31 : Sm General Foliation, 52 Deg to CA 38.40 - 38.41 : Sm General Foliation, 60 Deg to CA 55.30 - 55.31 : Sm General Foliation, 55 Deg to CA 58.40 - 58.41 : Sm General Foliation, 35 Deg to CA 71.80 - 71.81 : Sm General Foliation, 20 Deg to CA 75.20 - 75.21 : Sm General Foliation, 50 Deg to CA 85.10 - 85.11 : Sm General Foliation, 20 Deg to CA 89.80 - 89.81 : Sm General Foliation, 0 Deg to CA 94.00 - 94.01 : Sm General Foliation, 65 Deg to CA 100.30 - 100.31 : Sm General Foliation, 50 Deg to CA 106.50 - 106.51 : Sm General Foliation, 0 Deg to CA 113.30 - 113.31 : Sm General Foliation, 55 Deg to CA</p> <p>RQD</p> <p>2.90 - 6.00 : 16.00 % RQD 100.00 % Core 6.00 - 9.00 : 23.00 % RQD 100.00 % Core 9.00 - 12.00 : 60.00 % RQD 100.00 % Core 12.00 - 15.00 : 53.00 % RQD 100.00 % Core 15.00 - 18.00 : 54.00 % RQD 100.00 % Core 18.00 - 21.00 : 43.00 % RQD 100.00 % Core 21.00 - 24.00 : 68.00 % RQD 100.00 % Core 24.00 - 27.00 : 68.00 % RQD 100.00 % Core 27.00 - 30.00 : 67.00 % 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%
		RQD							
30.00	- 33.00	: 63.00 % RQD 100.00 % Core							
33.00	- 36.00	: 56.00 % RQD 100.00 % Core							
36.00	- 39.00	: 73.00 % RQD 100.00 % Core							
39.00	- 42.00	: 62.00 % RQD 100.00 % Core							
42.00	- 45.00	: 58.00 % RQD 100.00 % Core							
45.00	- 48.00	: 57.00 % RQD 100.00 % Core							
48.00	- 51.00	: 37.00 % RQD 95.00 % Core							
51.00	- 54.00	: 35.00 % RQD 90.00 % Core							
54.00	- 57.00	: 19.00 % RQD 70.00 % Core							
57.00	- 60.00	: 36.00 % RQD 100.00 % Core							
60.00	- 63.00	: 44.00 % RQD 100.00 % Core							
63.00	- 66.00	: 50.00 % RQD 100.00 % Core							
66.00	- 69.00	: 32.00 % RQD 100.00 % Core							
69.00	- 72.00	: 56.00 % RQD 100.00 % Core							
72.00	- 75.00	: 26.00 % RQD 95.00 % Core							
75.00	- 78.00	: 58.00 % RQD 100.00 % Core							
78.00	- 81.00	: 24.00 % RQD 100.00 % Core							
81.00	- 84.00	: 29.00 % RQD 100.00 % Core							
84.00	- 87.00	: 34.00 % RQD 100.00 % Core							
87.00	- 90.00	: 16.00 % RQD 100.00 % Core							
90.00	- 93.00	: 13.00 % RQD 100.00 % Core							
93.00	- 96.00	: 9.00 % RQD 100.00 % Core							
96.00	- 99.00	: 32.00 % RQD 100.00 % Core							
99.00	- 102.00	: 49.00 % RQD 100.00 % Core							
102.00	- 105.00	: 54.00 % RQD 100.00 % Core							
105.00	- 108.00	: 67.00 % RQD 100.00 % Core							
108.00	- 111.00	: 64.00 % RQD 100.00 % Core							
111.00	- 114.00	: 45.00 % RQD 100.00 % Core							
114.00	- 117.27	: 37.00 % RQD 100.00 % Core							
		MINOR INTERVALS:							
		Minor Interval:							
		76.6 - 77.2 6e, Ultramafic Schist							
		Dark green, chloritized ultramafic schist containing 3-5% po stringers. Core is badly broken and ground.							
		Minor Interval:							
		78.8 - 80.35 6e, Ultramafic Schist							
		green chloritized ultramafic schist containing 1-2% po stringers.							

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		MINOR INTERVALS: Minor Interval: 91.75 - 92.16, Undivided Ultramafic Intrusive Dark grey, serpentinized ultramafic containing 2-3% fracture-controlled po.							