

DETAILED LOG

Hole Number: ES2004-02

Units: METRIC

Project Name:	Norway - Espedalen	Primary Coordinates	Grid: UTM84-32N	Destination Coordinates	Grid: UTM:	Collar Dip:	-45.00
Project Number:	201	North:	6805506.83	North:	61.38	Collar Az:	50.00
Location:	Andreasburg	East:	535162.74	East:	9.66	Length:	29.80 (m)
		Elev:	1001.62	Elev:	1001.62	Start Depth:	0.00 (m)
Date Started:	Jul 21, 2004	Collar Survey:	N	Plugged:	N	Contractor:	Geobor-Salag A/S
Date Completed:	Aug 02, 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:	29.80 (m)

Comments: Purpose: Test UTEM conductor ESP_05_04. Conductivity = 500 Siemens

Result: Hole was abandoned after 2 unsuccessful cementing attempts. Recollared as ES2004-02A. No samples taken.

Lithological interpretation: Intersected anorthosite/anorthositic gabbro with minor gabbronorite.

Sample Averages

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	1.20	C, Casing							

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From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
1.20	29.80	<p>4, Anorthosite / Anorthosite Gabbro</p> <p>Medium grained, white and dark green, non-magnetic, anorthosite / anorthositic gabbro composed of 70-75% plagioclase, 20-25% pyroxene, 5% biotite and trace to 3% garnets. This unit contains 10-15% mm scale, dark green to black, amorphous veinlets which are at irregular angles to the ca, resulting in a brecciated texture. Proximal to these veinlets the plagioclase has a light green hue (sausseritized). Mafic components increase downhole resulting in a more gabbroic composition.</p> <p>This unit is crosscut by dm to m scale, fine grained, non-magnetic, black and white, homogenous gabbro dykes. Contact relationships are sharp but irregular (see minor units). These dykes contain 50-60% pyroxenes (light green to black) and 40-50% plagioclase. The lower 10.45m (19.35-20.80m) is injected with approximately 50% dyklets which do not display sharp contacts but rather irregular, remelted contacts?</p> <p>This unit locally contains fine grained disseminated pyrrhotite.</p> <p>The lower contact of this unit is undetermined as hole was lost at 29.8m.</p> <p>Interpretation: Consistent with Heim's Rock Suite 2a (Anorthosite - Anorthositic Gabbro), crosscut by late gabbro dykes (Rock Suite 3).</p> <p>Alteration 1.20 - 6.00 :WEA Weathering, F Fracture Controlled, S Strong Ground water infiltration 1.20 - 19.35 :ALT Alteration, P Pervasive, M Moderate Sausseritized</p> <p>RQD 1.20 - 3.00 : 22.00 % RQD 89.00 % Core 3.00 - 6.00 : 11.00 % RQD 100.00 % Core 6.00 - 9.00 : 51.00 % RQD 100.00 % Core 9.00 - 12.00 : 58.00 % RQD 88.00 % Core 12.00 - 15.00 : 45.00 % RQD 100.00 % Core 15.00 - 18.00 : 45.00 % RQD 97.00 % Core 18.00 - 21.00 : 47.00 % RQD 100.00 % Core 21.00 - 24.00 : 30.00 % RQD 100.00 % Core 24.00 - 27.00 : 34.00 % RQD 100.00 % Core 27.00 - 29.80 : 34.00 % RQD 100.00 % Core EOH at 29.80m</p>							

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		<p>MINOR INTERVALS:</p> <p>Minor Interval: 8.06 - 8.96 GAB, Gabbro See major unit for rock description.</p> <p>The upper and lower contacts of this unit are sharp but undulating at approx 37 and 10 degrees tca, respectively.</p> <p>Minor Interval: 16.96 - 17.34 GAB, Gabbro See major unit for rock description.</p> <p>The upper and lower contacts of this unit are sharp but undulating at approx 35 and 55 degrees tca, respectively.</p>							