

Hole Number: ES2006-54

Units: METRIC

Project Name: Norway - Espedalen	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -71.00
Project Number: 201	North: 6801340.70	North: 61.34	Collar Az: 230.00
Location: Surface	East: 535257.60	East: 9.66	Length: 247.90 (m)
	Elev: 953.99	Elev: 953.99	Start Depth: 0.00 (m)
Date Started: Mar 21, 2006	Collar Survey: N	Plugged: N	Contractor: Arctic Drilling A/S
Date Completed: Mar 28, 2006	Multishot Survey: N	Hole Size: TT46	Core Storage: Strand Fjellstue
Logged By: larsw	Pulse EM Survey: N	Casing: Left in Hole, capped	Final Depth: 247.90 (m)

Comments: Purpose: To test for mineralization downdip of the known mineralization of the main Stormyra zone.

Summary:

Sample Averages

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	3.93	C, Casing							
3.93	10.88	4s, Sausseritized/Tectonized Anorthosite This unit consists of a white to greenish-white, homogeneous, non-magnetic, weakly foliated, fine- to medium-grained rock. It contains ca. 70% white plagioclase; chlorite, fuchsite, and other alteration minerals occur in variable amounts. The lower contact of this unit is sharp at 45 degrees tca. This unit is not mineralized.. RQD 3.93 - 6.00 : 51.00 % RQD 100.00 % Core 6.00 - 9.00 : 75.00 % RQD 100.00 % Core 9.00 - 12.00 : 62.00 % RQD 100.00 % Core							
10.88	13.07	MD, Mafic Dike This unit consists of a dark gray-green, well-foliated, homogeneous, non-magnetic, fine-grained mafic rock. It contains abundant amphiboles/pyroxenes as well as chlorite, locally minor epidote, and other unidentified alteration minerals. The lower contact of this unit is sharp but intensively tectonized and is hence complex. Apart from trace po along the lower contact, this unit is no mineralized. Structure 11.67 - 11.68 : S1 First Foliation, 65 Deg to CA RQD 12.00 - 15.00 : 63.00 % RQD 100.00 % Core							

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
13.07	26.38	<p>PRDT, Peridotite</p> <p>This unit consists of a dark gray, homogeneous, non -foliated, coarse-grained ultramafic rock. It contains abundant biotite/phlogopite (after pyroxene) clusters up to about 1cm in diameter. Minor constituents are talc and chlorite. The unit contains an anorthosite "raft" about 15cm in diameter close to the hanging wall contact..</p> <p>This unit is not mineralized.</p> <p>RQD</p> <p>15.00 - 18.00 : 46.00 % RQD 100.00 % Core</p> <p>18.00 - 21.00 : 61.00 % RQD 100.00 % Core</p> <p>21.00 - 24.00 : 36.00 % RQD 100.00 % Core</p> <p>24.00 - 27.00 : 51.00 % RQD 100.00 % Core</p>							
26.38	28.22	<p>MD, Mafic Dike</p> <p>This unit consists of a fine to medium-grained, gray, non-magnetic, usually well-foliated mafic rock. It is homogeneous on a meter scale. The rock contains plagioclase, pyroxenes/amphiboles, chlorite and other unidentified alteration minerals.</p> <p>The lower contact is diffuse/digested.</p> <p>This unit is not mineralized.</p> <p>RQD</p> <p>27.00 - 30.00 : 92.00 % RQD 100.00 % Core</p>							

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Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		RQD							
60.00	- 63.00	: 73.00 % RQD 100.00 % Core							
63.00	- 66.00	: 62.00 % RQD 100.00 % Core							
66.00	- 69.00	: 85.00 % RQD 100.00 % Core							
69.00	- 72.00	: 72.00 % RQD 100.00 % Core							
72.00	- 75.00	: 100.00 % RQD 100.00 % Core							
75.00	- 78.00	: 52.00 % RQD 100.00 % Core							
78.00	- 81.00	: 92.00 % RQD 100.00 % Core							
81.00	- 84.00	: 57.00 % RQD 100.00 % Core							
84.00	- 87.00	: 98.00 % RQD 100.00 % Core							
87.00	- 90.00	: 91.00 % RQD 100.00 % Core							
90.00	- 93.00	: 100.00 % RQD 100.00 % Core							
93.00	- 96.00	: 93.00 % RQD 100.00 % Core							
96.00	- 99.00	: 74.00 % RQD 100.00 % Core							
99.00	- 102.00	: 82.00 % RQD 100.00 % Core							
102.00	- 105.00	: 96.00 % RQD 100.00 % Core							
105.00	- 108.00	: 57.00 % RQD 100.00 % Core							
108.00	- 111.00	: 100.00 % RQD 100.00 % Core							
111.00	- 114.00	: 97.00 % RQD 100.00 % Core							
114.00	- 117.00	: 99.00 % RQD 100.00 % Core							
117.00	- 120.00	: 97.00 % RQD 100.00 % Core							
120.00	- 123.00	: 90.00 % RQD 100.00 % Core							
123.00	- 126.00	: 80.00 % RQD 100.00 % Core							
126.00	- 129.00	: 88.00 % RQD 100.00 % Core							
129.00	- 132.00	: 79.00 % RQD 100.00 % Core							
132.00	- 135.00	: 55.00 % RQD 100.00 % Core							
135.00	- 138.00	: 94.00 % RQD 100.00 % Core							
138.00	- 141.00	: 64.00 % RQD 100.00 % Core							
141.00	- 144.00	: 85.00 % RQD 100.00 % Core							
144.00	- 147.00	: 71.00 % RQD 100.00 % Core							
147.00	- 150.00	: 84.00 % RQD 100.00 % Core							
150.00	- 153.00	: 72.00 % RQD 100.00 % Core							
153.00	- 156.00	: 87.00 % RQD 100.00 % Core							
156.00	- 159.00	: 90.00 % RQD 100.00 % Core							
159.00	- 162.00	: 78.00 % RQD 100.00 % Core							
162.00	- 165.00	: 88.00 % RQD 100.00 % Core							
165.00	- 168.00	: 72.00 % RQD 100.00 % Core							
168.00	- 171.00	: 27.00 % RQD 100.00 % Core							

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From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		RQD							
		171.00 - 174.00 : 75.00 % RQD 100.00 % Core							
		174.00 - 177.00 : 94.00 % RQD 100.00 % Core							
		177.00 - 180.00 : 85.00 % RQD 100.00 % Core							
		180.00 - 183.00 : 89.00 % RQD 100.00 % Core							
		183.00 - 186.00 : 59.00 % RQD 100.00 % Core							
		186.00 - 189.00 : 78.00 % RQD 100.00 % Core							
		189.00 - 192.00 : 80.00 % RQD 100.00 % Core							
		192.00 - 195.00 : 67.00 % RQD 100.00 % Core							
		195.00 - 198.00 : 13.00 % RQD 100.00 % Core							
		198.00 - 201.00 : 37.00 % RQD 100.00 % Core							
		201.00 - 204.00 : 67.00 % RQD 100.00 % Core							
		204.00 - 207.00 : 93.00 % RQD 100.00 % Core							
		207.00 - 210.00 : 73.00 % RQD 100.00 % Core							
		210.00 - 213.00 : 85.00 % RQD 100.00 % Core							
		MINOR INTERVALS:							
		Minor Interval:							
		29.7 - 32.2 PRDT, Peridotite							
		This unit consists of a dark gray, homogeneous, non -foliated, coarse-grained ultramafic rock. It contains abundant biotite/phlogopite (after pyroxene) clusters up to about 1cm in diameter. Minor constituents are talc and chlorite. The upper and lower contacts are sharp at 90 and 80 degrees tca, respectively.							
		This unit is not mineralized.							
		Minor Interval:							
		47.52 - 53.52 MD, Mafic Dike							
		Gray to greenish-gray, homogeneous, non-magnetic, moderately to well-foliated mafic rock. The rock is fine grained and contains abundant plagioclase as well as mafic and alteration minerals. The upper contact is sharp at 80 degrees tca, the lower contact is tectonized.							
		This unit is not mineralized.							
		Minor Interval:							
		107.83 - 111.23 MD, Mafic Dike							
		Gray to greenish-gray, homogeneous, non-magnetic, moderately to well-foliated mafic rock. The rock is fine grained and contains abundant plagioclase as well as mafic and alteration minerals. The upper contact is sharp at 80 degrees tca, the lower contact is sharp but irregular.							
		This unit is not mineralized.							

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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: 126.14 - 128.54 MD, Mafic Dike</p> <p>Gray to greenish-gray, homogeneous, non-magnetic, moderately to well-foliated mafic rock. The rock is fine grained and contains abundant plagioclase as well as mafic and alteration minerals. The upper and lower contacts are sharp at 60 and 90 degrees tca, respectively. The rock is finer-grained along the contacts.</p> <p>This unit is not mineralized.</p> <p>Minor Interval: 130.63 - 132.9 MD, Mafic Dike</p> <p>Gray to greenish-gray, homogeneous, non-magnetic, moderately to well-foliated mafic rock. The rock is fine grained and contains abundant plagioclase as well as mafic and alteration minerals. The upper contact is gradational/digested, the lower contact is sharp at 90 degrees tca.</p> <p>This unit contains trace py/po.</p> <p>Minor Interval: 149.23 - 152.23 MD, Mafic Dike</p> <p>Gray to greenish-gray, homogeneous, non-magnetic, moderately to well-foliated mafic rock. The rock is fine grained and contains abundant plagioclase as well as mafic and alteration minerals. The upper contact is sharp but irregular, the nature of the lower contact can not be determined as the core is broken.</p> <p>Locally, complex folding is evident in the core.</p> <p>This unit is not mineralized.</p> <p>Minor Interval: 158.6 - 159.54 MD, Mafic Dike</p> <p>Gray to greenish-gray, homogeneous, non-magnetic, moderately to well-foliated mafic rock. The rock is fine grained and contains abundant plagioclase as well as mafic and alteration minerals. The upper contact is gradational over about 10cm, the lower contact is tectonized. Minor brecciation occurs along the hanging wall contact.</p> <p>This unit is not mineralized.</p> <p>Minor Interval: 161.53 - 164.68 MD, Mafic Dike</p> <p>Gray to greenish-gray, homogeneous, non-magnetic, moderately to well-foliated mafic rock. The rock is fine grained and contains abundant plagioclase as well as mafic and alteration minerals. The upper contact is sharp at 70 degrees tca, the lower contact is diffuse/digested.</p> <p>This unit contains trace py/po.</p>							

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From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		<p>MINOR INTERVALS:</p> <p>Minor Interval: 176.97 - 177.42 MD, Mafic Dike Gray to greenish-gray, homogeneous, non-magnetic, moderately to well-foliated mafic rock. The rock is fine grained and contains abundant plagioclase as well as mafic and alteration minerals. The upper and lower contacts are sharp at 90 and 70 degrees, respectively.</p> <p>This unit is not mineralized.</p> <p>Minor Interval: 195 - 199.67 PYXT, Pyroxenite Dark gray to black, pyroxene-bearing rock. Magnetic, non-mineralized. Very broken core. Magnetic susceptibility 5 - 61.</p>							
210.36	218.47	<p>DIA, Diabase Dark gray and green, homogeneous, medium-grained, plagioclase (ca. 50%) and pyroxene (ca. 50%) bearing, well-foliated rock with ophitic texture. The unit is fine-grained along the hanging wall contact.</p> <p>This unit is not mineralized.</p> <p>Structure 213.26 - 213.27 : S1 First Foliation, 75 Deg to CA RQD 213.00 - 216.00 : 100.00 % RQD 100.00 % Core 216.00 - 219.00 : 87.00 % RQD 100.00 % Core</p>							

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From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
218.47	225.67	<p>4s, Sausseritized/Tectonized Anorthosite</p> <p>Plagioclase and chlorite-bearing anorthosite unit. The rock is brecciated along the hanging wall contact. The rest of the unit is highly sheared. The unit is cut by a mafic dike/sill, which could be a "finger" from the underlying unit.</p> <p>This unit is not mineralized.</p> <p>RQD</p> <p>219.00 - 222.00 : 93.00 % RQD 100.00 % Core</p> <p>222.00 - 225.00 : 84.00 % RQD 100.00 % Core</p> <p>225.00 - 228.00 : 96.00 % RQD 100.00 % Core</p> <p>MINOR INTERVALS:</p> <p>Minor Interval:</p> <p>220.18 - 223.92 MD, Mafic Dike</p> <p>Gray to greenish-gray unit, highly foliated. Locally, development of feldspar augen. This unit is somewhat inhomogeneous and could be part of the underlying metavolcanic package.</p> <p>The upper contact is sharp at 70 degrees tca, the lower contact is sharp but irregular.</p> <p>This unit is not mineralized.</p>							
225.67	247.90	<p>10d, Volcaniclastics</p> <p>Fine to medium-grained, gray, non-magnetic unit. The grain size is variable and changes rapidly. Plagioclase is abundant as are alteration minerals (chlorite, epidote); quartz is rare but not absent. The unit is well-foliated but not mineralized.</p> <p>This unit is interpreted to lie outside of the Espedalen complex; representing a sequence of mafic and intermediate tuffs and other volcanic extrusives and intrusives that form the footwall package to the anorthositic Espedalen Complex.</p> <p>Structure</p> <p>232.63 - 232.64 : S1 First Foliation, 80 Deg to CA</p> <p>241.19 - 241.20 : S1 First Foliation, 85 Deg to CA</p> <p>RQD</p> <p>228.00 - 231.00 : 88.00 % RQD 100.00 % Core</p> <p>231.00 - 234.00 : 97.00 % RQD 100.00 % Core</p> <p>234.00 - 237.00 : 100.00 % RQD 100.00 % Core</p> <p>237.00 - 240.00 : 25.00 % RQD 100.00 % Core</p> <p>240.00 - 243.00 : 67.00 % RQD 100.00 % Core</p> <p>243.00 - 246.00 : 100.00 % RQD 100.00 % Core</p>							