DETAILED LOG

Hole Number: ES07-129 Units: METRIC

Project Name:	Norway - Espedalen	Primary Coordinates	Grid: UTM84-32N	Destination Coordinates	Grid: UTM:	Collar Dip:	-60.00
Project Number:	201	North:	6801203.00	North:	61.34	Collar Az:	230.00
Location:	Stormyra	East:	535508.00	East:	9.66	Length:	250.01 (m)
		Elev:	960.00	Elev:	960.00	Start Depth:	0.00 (m)
Date Started:	Nov 28, 2007	Collar Survey:	N	Plugged:	N	Contractor:	Arctic Drilling A/S	Final Depth:	250.01 (m)
Date Completed:	Dec 06, 2007	Multishot Survey:	N	Hole Size:	TT46	Core Storage:	Tyristrand		
Logged By:	awnor	Pulse EM Survey:	N	Casing:	Left in Hole				

Comments: Target: Test 80m down dip of ES2005-32 (0.71% Ni, 0.22% Cu & 0.03% Co over 2.24m)
Result: Didn't hit anything but a 2.5m ultramafic dyke with trace to 1% Pyrite at 177.2m. Also hit about 30m of the footwall complex at 222m.

Sample Averages

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	22.30	O/B, Overburden							
22.30	25.40	MD, Mafic Dike MD, Mafic Dyke RQD 50% Gouge zone at 23.6-23.8m Fine grained, medium green mafic dyke with 75% fine grained Pyroxene and 25% fine grained Plagioclase. Some up to 10cm sections of Anorthosite throughout. Lower contact is at 85CA. Structure 23.60 - 23.80							
25.40	28.60	ANOR, Anorthosite ANOR, Anorthosite White, grey, green brecciated Anorthosite with 60% Plagioclase, 15% Quartz and 15% Chlorite. There are three up to 10cm Mafic Dykes in there - usually quite faulted. Structure 27.20 - 27.40 lots of small (up to 3cm) rock pieces 28.10 - 28.50 lots of small (up to 3cm) rock pieces							
28.60	31.80	MD, Mafic Dike MD, Mafic Dyke Medium green, fine grained mafic dyke with 85% Pyroxene and 15% Plagioclase. Upper contact is at 85CA, lower contact is at 80CA. The last 5cm of the interval are quite broken along some 45CA fractures. Structure 31.75 - 31.80 : F Fractured, 45 Deg to CA							

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Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
31.80	41.15	ANOR, Anorthosite ANOR, Anorthosite White, grey, green brecciated, mottled looking Anorthosite with 75% Plagioclase, 5% Quartz and 20% Chlorite. There are six up to 15cm bands of Mafic-Ultra Mafic Dyke throughout. Usually those are the most fractured areas: the mafic dykes. Structure 39.60 - 39.70 : F Fractured, 25 Deg to CA							
41.15	46.95	MD, Mafic Dike MD, Mafic Dyke Upper and lower contact at 85CA. Medium green, fine grained mafic dyke, with 75% Pyroxene, 20% Plagioclase and 5% Epidote. 46.55-46.75 fracture along 05CA. Upper and lower contact along 80CA.							
46.95	51.50	ANOR, Anorthosite ANOR, Anorthosite White, grey, little green brecciated to mottled looking Anorthosite with 75% Plagioclase, 10% Quartz and 15% Chlorite. 50.15-50.55m mafic dyke Two more up to 5cm mafic dykes below. The last one is at 50.9-50.95 and shows a 3cm gouge zone.							
51.50	59.70	MD, Mafic Dike MD, Mafic Dyke Medium green, fine grained mafic dyke with 75% Pyroxene, 20% Plagioclase and 5% Epidote. Upper contact is at about 45CA. Lower contact is along 80CA.							
59.70	95.70	ANOR, Anorthosite ANOR, Anorthosite Light grey/green lensoid banded to mottled to brecciated looking Anorthosite with about 50% Plagioclase, 40% Quartz and 10% Chlorite. This Anorthosite is very Quartz rich in places with Quartz lenses/bands up to 10cm. Structure 59.80 - 59.85 small fault zone with small rock pieces 70.60 - 70.90 multiple fractures along 05-45CA 72.10 - 72.40 multiple fractures along 05-80CA 87.80 - 88.00 : F Fractured, 30 Deg to CA fractures along 30CA 93.15 - 93.60 multiple fractures along 45-55CA							

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Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
95.70	102.15	MD, Mafic Dike MD, Mafic Dyke Medium green, fine grained mafic dyke with 70% Pyroxene and 30% Plagioclase. Upper contact is along 85CA. Lower contact same. Structure 95.70 - 96.00 multiple fractures along 25-70CA							
102.15	177.15	ANOR, Anorthosite ANOR, Anorthosite Grey, green mottled to brecciated looking Anorthosite with about 60% Plagioclase, 25% Quartz and 15% Chlorite. At 103.95m there is a 80cm Mafic Dyke. 104.7-141.8m there are lots of smaller bands of Mafic Dyke (1-60cm) - non m ineralized. 141.8-146.7 lensoid banded Anorthosite 146.7-177.15 more brecciated and mottled looking Anorthosite with the odd up to 10cm band of mafic dyke - unmineralized, ending in a 30cm band of mafic dyk 163.65-166.7 mafic dyke - unmineralized Structure 114.10 - 114.15 broken core in quartz vein 114.70 - 115.00 : F Fractured, 45 Deg to CA Mafic Dyke with multiple fractures 125.00 - 125.20 : F Fractured, 85 Deg to CA multiple fractures along 85CA 150.80 - 150.90 broken core (small pieces) 170.90 - 171.00 multiple fractures along 45CA 171.20 - 171.22 175.10 - 175.30 multiple fractures along 5-10CA	PG05751	176.55	177.15	0.60	0.0140	0.0070	0.0050
177.15	179.70	UM, Ultramafic UM, Ultramafic Black, with lots of Calcite and/or Quartz veins Ultramafic with 80% Pyroxene, 10% Blotite and 8% Calcite and/or Quartz, trace to 1% Pyrite. Mineralization 177.15 - 179.70 : PY Pyrite, TR Trace, 1% trace to 1% Pyrite	PG05752	177.15	177.60	0.45	0.0640	0.0060	0.0100
			PG05753	177.60	178.15	0.55	0.0860	0.0025	0.0130
			PG05754	178.15	178.60	0.45	0.0910	0.0025	0.0130
			PG05755	178.60	179.10	0.50	0.0870	0.0060	0.0120
			PG05756	179.10	179.55	0.45	0.0740	0.0060	0.0100
			PG05757	179.55	180.20	0.65	0.0100	0.0025	0.0030
179.70	200.00	ANOR, Anorthosite ANOR, Anorthosite Lensoid banded, grey/green Anorthosite with about 50% Plagioclase and 30% Chlorite. There are some up to 50cm mafic dykes throughout.							

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Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
200.00	214.90	MD, Mafic Dike MD, Mafic Dyke Fine grained, green mafic dyke with 65% Pyroxene, 30% Plagioclase and 5% Epidote. There are multiple fractures along 20CA at 206.6m. 204.25-205.1m lensoid banded Anorthosite 208.2-208.65m brecciated Anorthosite (Qtz rich) 209.4-211.2m lensoid banded Anorthosite							
214.90	220.25	ANOR, Anorthosite ANOR, Anorhtosite Grey/green lensoid banded Anorthosite with 60% Plagioclase and 30% Chlorite. There are the odd Mafic Dyke bands up to 70cm.							
220.25	250.00	MV, Mafic Volcanic MV, Mafic Volcanic Fine to medium grained, well-foliated (banded?), light green/grey, weakly magnetic mafic metavolcanic composed of 15-20% white/grey plagioclase within a mafic groundmass (predominantly chlorite, sericite, pyroxenes, some biotite and some epidote). This unit contains 1-3mm white quartzofeldspatic veinlets (parallel to foliation along 90CA). More mafic sections and more felsic horizons on a dm-scale. This complex is believed to represent mafic metavolcanics outside of anorthositic "espedalen complex"							
250.00	250.01	EOH, End of Hole							

Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type ASSAY					
PG05751	176.55	177.15	0.0140	0.0070	0.0050
PG05752	177.15	177.60	0.0640	0.0060	0.0100
PG05753	177.60	178.15	0.0860	0.0025	0.0130
PG05754	178.15	178.60	0.0910	0.0025	0.0130
PG05755	178.60	179.10	0.0870	0.0060	0.0120
PG05756	179.10	179.55	0.0740	0.0060	0.0100
PG05757	179.55	180.20	0.0100	0.0025	0.0030