

## DETAILED LOG

Hole Number: ES07-59

Units: Metric

Project Name: Norway - Espedalen	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -61.30
Project Number: 201	North: 6801375.37	North: 61.34	Collar Az: 229.10
Location: Stormyra	East: 535063.96	East: 9.66	Length: 147.91 (m)
	Elev: 981.98	Elev: 981.98	Start Depth: 0.00 (m)
Date Started: Apr 23, 2007	Collar Survey: Y	Plugged: N	Contractor: Geo Drilling A/S
Date Completed: Apr 26, 2007	Multishot Survey: N	Hole Size: TT46	Core Storage: Schinnes Farm-Tyristrand
Logged By: ccnor	Pulse EM Survey: N	Casing: left in hole, capped	Final Depth: 147.91 (m)

Comments: Target: Test 60 m down dip extension of ES2005-23 (2.28% Ni, 0.86%CU, 0.06%CO over 0.5m)

Result: Hole failed to intersect any significant sulphides

## Sample Averages

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	2.80	O/B, Overburden							

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From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
2.80	28.80	<p>ANOR, Anorthosite (Altered Anorthosite) Overall creamy white to light green, non magnetic (less than 0.2 on mag sus), non conductive and non mineralized. Unit consists of milky white plagioclase (75-95%), Kspar (0-15%), quartz (0-5%), and an alteration mineral assemblage of epidote/sericite (0-3%), fuchsite (0-2%). Well foliated throughout 45-75 DTCA. Minor (1-2% overall) centimetric intervals of fine grained black mafic and ultramafic dikes. ultramafic dikes are quite soft to scratch with scribe and consist of mostly serpentite. Ultramafic dikes likely faults? trace Po observed in one ultramafic dike otherwise dikes non mineralized. lower contact sharp 55 DTCA</p> <p>Structure 5.90 - 5.90 : FOL Foliated, 40 Deg to CA 10.70 - 10.70 : F Fractured, 40 Deg to CA 13.00 - 13.00 : FOL Foliated, 45 Deg to CA 17.60 - 17.60 : FOL Foliated, 75 Deg to CA 23.50 - 23.50 : FOL Foliated, 60 Deg to CA</p> <p>MINOR INTERVALS: Minor Interval: 2.8 - 5.6 MD, Mafic Dike black, fine grained, non mineralized, moderately foliated, sharp upper and lower contacts 30 DTCA. Minor Interval: 7.5 - 7.8 UM, Ultramafic dark green to black, f.g., soft, strongly serp, well foliated 40 DTCA, non mineralized, sharp lower contact 40 DTCA Minor Interval: 8.05 - 8.2 UM, Ultramafic similar to above described dike, folated 50 DTCA, slightly more redish (iron staining?) Minor Interval: 19.66 - 19.83 UM, Ultramafic similar to above dykes, upper and lower contacts 45 DTCA Minor Interval: 21.95 - 22.2 UM, Ultramafic similar to above, tr Po stringers. lower contact irregular roughly 40 DTCA.</p>							
28.80	38.05	<p>MD, Mafic Dike light grey/green, non mineralized, non magnetic and non conductive. Unit is fine grained and well foliated consisting of dark grey mafic matrix 75-90%, pale green sericite/epidote 5-7%, and white wispy quartz/feldspar that define overall fabric 3-5%. foliation 55-60 DTCA and locally crenulated. upper contact appears chilled to 29.0m.</p> <p>MINOR INTERVALS: Minor Interval: 33.3 - 33.55 ANOR, Anorthosite remnant anorthosite fragment? chaotic quartz veining</p>							

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From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
38.05	42.45	ANOR, Anorthosite (altered anorthosite) similar to anorthosite described from 2.8 to 28.8m although much more sheared (mylonitized) and no mafic/ultramafic dikes. Shearing (mylonitization) orientated 75-85 DTCA. lower contact sharp 65 DTCA.  Structure 39.30 - 39.30 : SHR Shear, 85 Deg to CA mylonitized							
42.45	45.10	MD, Mafic Dike similar to above described mafic dike. foliation 80-90 DTCA. lower contact sharp 65 DTCA							

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From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
45.10	147.90	<p>ANOR, Anorthosite (altered anorthosite) similar to anorthosite described from 2.8-28.8m however no k-spar. mafic/ultramafic dikes rare throughout unit and limited to less than 1% of entire unit. ultramafic dikes are thin (less than 10 cm wide) and contain tr py disseminations and veinlets.</p> <p>Structure 68.95 - 68.95 : FLT Fault, 50 Deg to CA 71.60 - 71.65 : FLT Fault, 35 Deg to CA 75.50 - 75.50 : FOL Foliated, 60 Deg to CA 85.20 - 85.20 : FLT Fault, 70 Deg to CA talc fault gauge 119.93 - 119.93 : FLT Fault, 75 Deg to CA sheared out u.m.</p> <p>MINOR INTERVALS: Minor Interval: 47.93 - 48 UM, Ultramafic trace py stringers, lower contact sharp, 60 DTCA. Minor Interval: 57.35 - 57.75 MD, Mafic Dike mixture of anorthosite and mafic dike, likely a fault/shear zone. well foliated 70 DTCA, sharp upper and lower contacts 45 DTCA. trace Py stringers. Minor Interval: 64.28 - 64.56 MD, Mafic Dike light green, pervasive serpentite alteration, non mineralized. upper contact irregular lower contact relatively sharp 40 DTCA. Minor Interval: 65 - 65.2 UM, Ultramafic as in 64.28m. trace Py stringers Minor Interval: 71.95 - 72.28 UM, Ultramafic trace pyrite Minor Interval: 82.3 - 82.4 UM, Ultramafic trace pyrite. upper contact 60 DTCA lower contact 90 DTCA. Minor Interval: 91.23 - 91.68 UM, Ultramafic trace po/py lower contact is faulted 80 DTCA Minor Interval: 108.17 - 108.65 UM, Ultramafic black-green, fine grained, foliated (sheared) 40-50 DTCA. lower contact 25 DTCA.</p>							

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		MINOR INTERVALS: Minor Interval: 108.83 - 109.16 UM, Ultramafic black-green, fine grained, foliated (sheared) 55 DTCA, non sulphides observed. lower contact 55 DTCA Minor Interval: 110.32 - 110.56 UM, Ultramafic similar to um from 108.83m. lower contact 75 DTCA. Minor Interval: 114.63 - 114.85 UM, Ultramafic light green, foliated (sheared), trace PY. lower contact sharp 80 DTCA Minor Interval: 121.4 - 122 MD, Mafic Dike geen-grey,foliated 85 DTCA, non mineralized, Minor Interval: 136.1 - 139.5 MD, Mafic Dike as in 121.4m. lower contact sharp 75 DTCA							
147.90	147.91	EOH, End of Hole							