

Hole Number: ES08-132

Units: METRIC

Project Name: Norway - Espedalen	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -80.00
Project Number: 201	North: 6801029.00	North: 61.34	Collar Az: 230.00
Location: Surface	East: 535894.00	East: 9.67	Length: 197.31 (m)
	Elev: 941.00	Elev: 941.00	Start Depth: 0.00 (m)
Date Started: Jan 21, 2008	Collar Survey: N	Plugged: N	Contractor: Arctic Drilling A/S
Date Completed: Jan 24, 2008	Multishot Survey: N	Hole Size: BQ	Core Storage: tyristrand
Logged By: awnor	Pulse EM Survey: N	Casing: Left in Hole	Final Depth: 197.31 (m)

Comments: To test down-dip extension of mineralization encountered in ES2005-28. Hole will go only ~30-40m past projected zone.

Results:

No significant mineralization intersected. UMAF unit in which mineralization was encountered on ES2005-28 was correlated and sampled in ES08-132 for check sample.

5-7% fg, stringer pyrite mineralization encountered from 170.65-171.1m.

Sample Averages

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	12.90	O/B, Overburden							
12.90	38.86	ANOR, Anorthosite Anorthosite. Fine grained. white to grey green. Non-magnetic. Reatively homogenous anorthosite with some dirty, light green patches. Mainly plagioclase with minors of chlorite, sericite and occasionally whisps of fuchsite. The unit is mainly moderately to well foliated and in some locations almost massive. Unit is crosscut by mafic dykes (see sub-litho). top of rock unit is highly fractured, faulted and sericitized. .0.5% fg oxidized sulphide specs. Structure 18.55 - 22.75 Strongly faulted core 28.10 - 31.10 Fault breccia with variably sized, angular anorthositic fragments in matrix of predominantly chlorite. Strongly sheared towards base @80 dtca. MINOR INTERVALS: Minor Interval: 12.9 - 14.04 MD, Mafic Dike Mafic Dyke Green, fg, homogenous. Well foliated @ >80 dtca. Not magnetic and mineralized.							
38.86	46.09	MD, Mafic Dike Mafic Dyke Green, fg, homogenous. weak to moderately foliated @~70 dtca. Not mineralized or magnetic. Sharp upper contact @90 dtca and lower contact @65 dtca.							

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
80.47	81.99	GAB, Gabbro Anorthositic-Gabbro? Grey (mixture of thin bands of white and light grey-green). Fg. Homogenous. Well foliated/sheared @65-70 dtca. Strongly sheared and partly gaugy upper contact with mafic dyke in overlying anorthosite and sheared, gaugy lower contact with main anorthosite unit. Not mineralized.							

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From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
81.99	197.30	ANOR, Anorthosite	PG05767	98.60	98.83	0.23	0.0040	0.0025	0.0010
		Anorthosite.	PG05768	98.83	100.05	1.22	0.0260	0.0110	0.0040
		Fine grained. white to grey green. Non-magnetic. Realitively homogenous anorthosite with some dirty, light green patches. Mainly plagioclase with minors of chlorite, sericite and occassionaly whisps of fuchsite. The unit is mainly moderately to well foliated and in some locations almost massive. Unit is crosscut by mafic dykes (see sub-litho). Occassional dm-wide silicifies sections with grey mottled appearance and abundant quartz veinlets. Highly irregular and often lensoidal fabric in section of strong deformation.	PG05769	100.05	100.60	0.55	0.0030	0.0025	0.0005
		Mineralization	PG05770	170.15	170.65	0.50	0.0020	0.0025	0.0005
		170.65 - 171.10 : PY Pyrite, STR Stringers, 5%	PG05771	170.65	171.10	0.45	0.0050	0.0090	0.0020
		5 and up to 7%, fg, srtinger (mm-sized) pyrite mineralization. Fractured controlled.	PG05772	171.10	171.60	0.50	0.0020	0.0025	0.0005
		Structure							
		122.60 - 123.47							
		Fault breccia in anorthosite. ~75% Fine to very coarse grained anorthositic, angular fragments. Choritic and hematized matrix with minor quartz							
		MINOR INTERVALS:							
		Minor Interval:							
		99.83 - 100.05 UM, Ultramafic							
		fine to med-grained, dark grey to greenish black. Non-magnetic, homogenous and almost massive. Mineralized with trace amounts of fine grained Py very locally only. Sharp 90 degree upper contact and lower contact. Thin sliver of anorthositic xenolith from 99.38-99.52. 2-3% mm sized grains of pyroxene?							
		Unit corresponds to mineralized portion of ES05-28, however there is no prevalent mineralization. (sampled nonetheless)							
		Minor Interval:							
		101.3 - 106.37 MD, Mafic Dike							
		green, fine grained. homogenous. Weak foliation @80-90 dtca. Not magntetic or mineralized. Sharp upper contact @45 dtca and sharp lower contact @80 dtca.							
		Minor Interval:							
		109.65 - 110.83 MD, Mafic Dike							
		dark green-green. Fg with mg plag grains. Homogenous. Moderately foliated @~75-80 dtca. Moderately chloritized and patchy hematite alteration. Sharp and sheared upper and lover contacts at high, undulating angles. Not mineralized of magnetic.							
		Minor Interval:							
		117.42 - 117.72 MD, Mafic Dike							
		Green dark green. Fg. Homogenous and moderately foliated @ 80 dtca. Sharp upper and lower contact. No mineralization.							
		Minor Interval:							
		127.02 - 128.4 MD, Mafic Dike							
		Green. fg. homogenous. Weakly foliated @80 dtca. Carbonate veinlets. Not mineralized. Weak hematite alteration.							

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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: 128.7 - 129.56 MD, Mafic Dike Green. fg. homogenous. Weakly foliated @80 dtca. Carbonate veinlets. Not mineralized. Weak hematite alteration.. Same as above unit.</p> <p>Minor Interval: 132.18 - 132.8 MD, Mafic Dike Green, fg, homogenous. Sharp upper and lower high angle contacts. Broken core over entire interval</p> <p>Minor Interval: 153.25 - 153.63 MD, Mafic Dike Green. Fg. Homogenous. Foliated @85 dtca. Sharp upper and lower contact 60 dtca.</p> <p>Minor Interval: 154.22 - 156.86 MD, Mafic Dike Green. Fg. Homogenous. Moderately foliated @80-85 dtca. Sharp high angle upper and lower contacts.</p> <p>Minor Interval: 162.95 - 167.38 MD, Mafic Dike Dyke zone. Section with ~40%, 20-50cm mafic dykes/dykelets in anorthosite. All are green, fg, moderately foliated. Sharp, high angle upper and lower contacts. Anorthosite sections between dykelets are highly deformed/well foliated. Dykes not mineralized.</p> <p>Minor Interval: 178.05 - 182.55 MD, Mafic Dike Green-dark grey. Fg, homogenous. almost massive with weak foliation. Not mineralized. Sharp, chloritized upper contact @85 dtca. Sharp lower contact @~65 dtca.</p> <p>Minor Interval: 186.66 - 188.54 MD, Mafic Dike Green-dark green. Fg. Massive. Not mineralized. Sheared, sharp upper and lower contacts @80+dtca</p> <p>Minor Interval: 189.64 - 190.04 MD, Mafic Dike Green. Fg. Massive. Homogenous. Sharp upper and lower contact @~90 dtca. Not mineralized.</p> <p>Minor Interval: 190.78 - 194.83 MD, Mafic Dike Green, fg, homogenous. Semi-massive with very weak foliation ~perpendicular to core axis. Not mineralized.</p>							

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		MINOR INTERVALS: Minor Interval: 194.83 - 197.3 UM, Ultramafic Dark grey-black. Fg to mg. Highyl foliated UMAF dyke. Abundant pyroxene and minor plagioclase. Moderate to strong magnetism locally. Not mineralized. Numerous talc filled fractures. Sharp sheared upper contact to mafic dyke. No Lower contact. Hole shut down.							
197.30	197.31	EOH, End of Hole							

Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
PG05767	98.60	98.83	0.0040	0.0025	0.0010
PG05768	98.83	100.05	0.0260	0.0110	0.0040
PG05769	100.05	100.60	0.0030	0.0025	0.0005
PG05770	170.15	170.65	0.0020	0.0025	0.0005
PG05771	170.65	171.10	0.0050	0.0090	0.0020
PG05772	171.10	171.60	0.0020	0.0025	0.0005