

Hole Number: ES08-139

Units: METRIC

Project Name: Norway - Espedalen	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -90.00
Project Number: 201	North: 6804729.00	North: 61.38	Collar Az: 230.00
Location: Surface	East: 534490.00	East: 9.65	Length: 162.51 (m)
	Elev: 733.00	Elev: 733.00	Start Depth: 0.00 (m)
Date Started: Mar 04, 2008	Collar Survey: N	Plugged: N	Contractor: Arctic Drilling A/S
Date Completed: Mar 08, 2008	Multishot Survey: N	Hole Size: BQ	Core Storage: tyistrand
Logged By: awnor	Pulse EM Survey: N	Casing: Left in Hole	Final Depth: 162.51 (m)

Comments: Hole to test extent of mineralization 80m downdip of ES08-108.

Results:  
101.92-102.50m: Semi-massive to massive Po mineralization containing roughly 50% fg sulphides. Mainly Po +/- Pn and up to 3% fg Cpy.

## Sample Averages

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	3.90	O/B, Overburden							
3.90	48.60	ANOR, Anorthosite White-Grey-green. Fg to mg. Very heterogenous with locally homogenous sections. Weakly deformed @65 dtca to locally massive. Weak to moderate epidote and chlorite alteration throughout. Almost pervasive grey silicification throughout. Not magnetic. Alteration 12.05 - 12.85 :EP Epidote, P Pervasive, S Strong STRONG EPRVASIVE EPIDOTE ALTERATION including strongly broken and brittle core MINOR INTERVALS: Minor Interval: 34.58 - 37.1 MD, Mafic Dike Green, fg and mg, homogenous, massive. Homogenous. Crosscut by epidote and chloritic veinlets. not mineralized or magnetic. Minor Interval: 40.72 - 41.23 MD, Mafic Dike green, light green, fg to mg, massive. homogenous. mainly amph, plag and minor flecs of biotite. Broken core however relatively sharp upper and lower contacts. Not mineralized.							
48.60	67.00	GAB, Gabbro green, fg to mg, massive, homogenous. (wide mafic dyke). Mainly amphibole, plagioclase and minor biotite. sharp upper and lower cotacts ~45 dtca. Quenched, vfg upper and lower contacts. Not mineralized. 2-3% chloritized veinlets.							

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
67.00	101.92	ANOR, Anorthosite White-Grey-green. Fg to mg. Very heterogenous with locally homogenous sections. Weakly deformed @65 dtca to locally massive. Weak to moderate epidote and chlorite alteration throughout. Almost pervasive grey silicification throughout. Not magnetic.  Within last 10.0m of massive sulphide mineralization below, anorthosite is strongly deformed with finely laminated and heavily convoluted banding due to strong shearing. Bands of white and green. Similar to that near most mineralization at south dalen.  Mineralization 101.35 - 101.92 : PO Pyrrhotite, STR Stringers, 3% 3mm sized stringer of Po veinlets adjacent to mineralization  MINOR INTERVALS: Minor Interval: 86.42 - 87.8 MD, Mafic Dike Green, fg, massive, homogenous. V. sharp upper and lower contact @60-70 dtca. Not mineralized. Minor Interval: 89.96 - 91.7 MD, Mafic Dike Green to dark green, fg, moderately foliated @~75 dtca. sharp and highly deformed contacts. Mineralied with fg pyritic veinlets (1%). Minor Interval: 97.72 - 99.25 MD, Mafic Dike Green, fg, moderately to strongly deformed @60 dtca. Mineralized with 2% fg Po veinlets crosscutting foliation. remobilized from massive sulphide below? Sharp and convoluted upper and lower contacts.	PG05975	97.72	98.70	0.98	0.0040	0.0110	0.0030
			PG05976	98.70	99.25	0.55	0.0020	0.0090	0.0030
			PG05977	99.25	100.00	0.75	0.0070	0.0025	0.0010
			PG05978	100.00	100.65	0.65	0.0030	0.0025	0.0010
			PG05979	100.65	101.35	0.70	0.0050	0.0025	0.0020
			PG05981	101.35	101.92	0.57	0.0680	0.0280	0.0060
101.92	102.50	SMS, Semi Massive Sulphide Semi-massive to massive sulphide mineralization. 40-65% sulphides including Po and minor amounts of Cpy. Po is fg and evenly distributed interstitial material in variably sized clasts of anorthosite from 0.5-5mm. Mainly Po (+/-Pn) with roughly 3% fg wisps of Cpy. Faulted core locally over 10 cm.	PG05982	101.92	102.50	0.58	1.8420	0.4880	0.1240
102.50	104.60	MD, Mafic Dike Green-light green. Strongly deformed and sheared mafic dyke. variable foliation angles however predominantly at low angles tca.  Mineralized with 5% Po and lesser Cpy as fine grained remobilized stringer veinlets about 2mm wide. Sometimes wispy but predominantly constrained to veinlets parallel to foliation planes.	PG05984	102.50	103.00	0.50	0.1330	0.0650	0.0100
			PG05985	103.00	103.55	0.55	0.1760	0.0790	0.0130
			PG05986	103.55	104.00	0.45	0.1630	0.0630	0.0120
			PG05987	104.00	104.60	0.60	0.1440	0.0370	0.0110

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
104.60	144.20	ANOR, Anorthosite White-Grey-green. Fg to mg. Very heterogenous with very local, thin homogenous sections of white anorthosite. Weakly deformed @50-60 dtca. Weak to moderate epidote and chlorite alteration throughout. Almost pervasive grey silicification throughout. Not magnetic or mineralized. Crosscut by several m-wide mafic dykes (see sub-litho).  MINOR INTERVALS: Minor Interval: 111.95 - 112.86 MD, Mafic Dike Gree, fg, homogenous, foliated @60 dtca. Not mineralized. Sharp upper and lower contacts parallel to foliation. Minor Interval: 114.95 - 117.2 MD, Mafic Dike Same as above. Green, fg, homogenous, foliated @60 dtca. Not mineralized. Sharp upper and lower contacts parallel to foliation. Minor Interval: 118.6 - 119.1 MD, Mafic Dike Same as above. Green, fg, homogenous, foliated @50 dtca. Not mineralized. Sharp upper and lower contacts parallel to foliation. Minor Interval: 121.45 - 121.88 MD, Mafic Dike light green, fg, homogenous, foliated @50 dtca. Not mineralized. Sharp upper and lower contacts parallel to foliation. Minor Interval: 122.7 - 123.3 MD, Mafic Dike green, fg, homogenous, foliated @55-60 dtca. Not mineralized. Sharp upper and lower contacts parallel to foliation.	PG05988	104.60	105.50	0.90	0.0070	0.0080	0.0030
			PG05989	105.50	106.50	1.00	0.0060	0.0025	0.0030
144.20	150.95	MD, Mafic Dike Green, fg to almost mg. Massive and homogenous. Sharp upper contact @60 dtca. gradational lower contact over 20cm into anorthosite. not mineralized. Crosscut with 5%, v thin epidotized veinlets. Anrothositic inclusion from 145.25-145.86m.							

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From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
150.95	162.50	ANOR, Anorthosite White-grey-light green. Deformed roughly 65 dtca. very heterogenous with undant chlorite/epdote patches. Abundant feldspar. Not mineralized. Crosscut with mafic dykes. MINOR INTERVALS: Minor Interval: 154.4 - 154.75 MD, Mafic Dike green, vfg to fg. massive. homogenous. Not mineralized. very sharp upper and lower contact @ 65 dtca. Minor Interval: 160.22 - 162.5 MD, Mafic Dike Green/dark green (abundant amphibole). Vfg to fg towards centre. Massive. Homogenous. Sharp upper contact @45 dtca and no lower contact. Not mineralized or magnetic.							
162.50	162.51	EOH, End of Hole							

## Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
PG05975	97.72	98.70	0.0040	0.0110	0.0030
PG05976	98.70	99.25	0.0020	0.0090	0.0030
PG05977	99.25	100.00	0.0070	0.0025	0.0010
PG05978	100.00	100.65	0.0030	0.0025	0.0010
PG05979	100.65	101.35	0.0050	0.0025	0.0020
PG05981	101.35	101.92	0.0680	0.0280	0.0060
PG05982	101.92	102.50	1.8420	0.4880	0.1240
PG05984	102.50	103.00	0.1330	0.0650	0.0100
PG05985	103.00	103.55	0.1760	0.0790	0.0130
PG05986	103.55	104.00	0.1630	0.0630	0.0120
PG05987	104.00	104.60	0.1440	0.0370	0.0110
PG05988	104.60	105.50	0.0070	0.0080	0.0030
PG05989	105.50	106.50	0.0060	0.0025	0.0030