

Hole Number: ES08-144

Units: METRIC

Project Name: Norway - Espedalen	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -80.00
Project Number: 201	North:	North: 0.00	Collar Az: 230.00
Location: Surface	East:	East: 4.51	Length: 99.21 (m)
	Elev:	Elev: 0.00	Start Depth: 0.00 (m)
Date Started: Apr 05, 2008	Collar Survey: N	Plugged: N	Contractor: Arctic Drilling A/S
Date Completed: Apr 06, 2008	Multishot Survey: N	Hole Size: BQ	Core Storage: Tyrstrand
Logged By: vbnor	Pulse EM Survey: N	Casing: Pulled	Final Depth: 99.21 (m)

Comments: Hole was designed as a 50m step out hole from ES08-135 sulphides at SE edge of UTEM plate 013.

RESULTS:

13.50-24.10m: UM hosted sulphides, 5%po, 1.5%pn and 0.5%cp.

24.10-35.05m: UM hosted sulphides, 12%po, 2%pn and 1%cp.

35.05-EOHm: ANOR/MD

Sample Averages

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	13.50	CAS, Casing							

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Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
13.50	35.05	UM, Ultramafic	BL00235	13.50	15.00	1.50	0.2040	0.0660	0.0190
		Dark grey, med-coarse grained Ultra-mafic rock. 7-15% interstitial and blebby po, pn and cpy. Magnetite, serpentine, and talc dissemination. Generally competent, with broken sections 0.5-1.0m in length. Lower contact is sharp.	BL00236	15.00	16.00	1.00	0.3010	0.0940	0.0270
		Mineralization	BL00237	16.00	17.00	1.00	0.2670	0.0750	0.0250
		13.50 - 24.10 : CP Chalcopyrite, DIS Disseminated, 0.5% wisps within po and on edges of grains	BL00238	17.00	18.00	1.00	0.3010	0.1070	0.0240
		13.50 - 24.10 : PN Pentlandite, DIS Disseminated, 1.5% within po grains	BL00239	18.00	19.00	1.00	0.3280	0.0720	0.0270
		13.50 - 24.10 : PO Pyrrhotite, BL Blebby, 5% disseminated throughout, grain size <20mm, but generally <2mm	BL00241	19.00	20.00	1.00	0.2680	0.1120	0.0240
		24.10 - 35.05 : CP Chalcopyrite, DIS Disseminated, 1% wisps within po and on edges of grains. Also coating fracture surfaces.	BL00242	20.00	21.00	1.00	0.3130	0.1440	0.0250
		24.10 - 35.05 : PN Pentlandite, DIS Disseminated, 2% within po grains	BL00243	21.00	22.00	1.00	0.3570	0.1210	0.0290
		24.10 - 35.05 : PO Pyrrhotite, BL Blebby, 12% disseminated throughout, grain size <25mm, but generally <5mm. Also coating fracture surfaces	BL00244	22.00	23.00	1.00	0.3040	0.1040	0.0270
		Alteration	BL00245	23.00	24.00	1.00	0.2860	0.1110	0.0230
		13.50 - 35.05 :CHL Chlorite, Dis Disseminated, M Moderate and coating fractures	BL00246	24.00	25.00	1.00	0.3190	0.1320	0.0270
		13.50 - 35.05 :SERP Serpentine, Dis Disseminated, M Moderate	BL00247	25.00	26.00	1.00	0.3960	0.1690	0.0310
		13.50 - 35.05 :MAG Magnetite, Dis Disseminated, M Moderate	BL00248	26.00	27.00	1.00	0.5360	0.1810	0.0410
		13.50 - 35.05 :TL Talc, Dis Disseminated, M Moderate some talc veins, and coating of fractures	BL00249	27.00	28.00	1.00	0.2860	0.0870	0.0230
		Structure	BL00250	28.00	29.00	1.00	0.5000	0.1580	0.0390
		13.50 - 16.00	BL00251	29.00	30.00	1.00	0.5320	0.1640	0.0390
		22.80 - 23.00 talc infill	BL00252	30.00	31.00	1.00	0.8090	0.1640	0.0570
		23.50 - 24.00 talc and chlorite coat surfaces.	BL00253	31.00	32.00	1.00	0.6040	0.0930	0.0430
		28.50 - 28.90 rubbly	BL00254	32.00	33.00	1.00	0.3210	0.1400	0.0250
		32.00 - 32.50 rubbly	BL00255	33.00	34.00	1.00	0.4870	0.1510	0.0370
		34.00 - 35.00	BL00256	34.00	35.05	1.05	0.2750	0.1300	0.0220

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Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
35.05	84.00	ANOR, Anorthosite Fine to medium grained, well foliated at 80-90 degrees to LCA, grey-white and minor green Anorthosite. No sulphides. Non magnetic, sericite, epidote, talc and chlorite alteration seen in banding and disseminated. Few mafic dykes within section. Competent. Alteration 35.05 - 84.00 :EP Epidote, V Vein, W Weak 35.05 - 84.00 :CH Chlorite, B Banded, W Weak 35.05 - 84.00 :TC Talc, Dis Disseminated, W Weak 35.05 - 84.00 :SE Sericite, B Banded, M Moderate MINOR INTERVALS: Minor Interval: 37.2 - 38.8 MD, Mafic Dike Green, aphanitic to fine grained, non-magnetic, Mafic Dyke. No sulphides, competent. Fine banding at 80-90 degrees to LCA. Upper and lower contact are sharp, with small 5-10cm veins of Anor/MD +/- 1m from contacts. Minor Interval: 60.7 - 63.9 MD, Mafic Dike as described above.	BL00257	35.05	36.40	1.35	0.0060	0.0025	0.0020
84.00	92.10	MD, Mafic Dike Green, aphanitic to fine grained, non-magnetic, Mafic Dyke. No sulphides, competent. Fine banding at 80-90 degrees to LCA. Upper and lower contact are sharp, with small 5-10cm veins of Anor/MD +/- 1m from contacts.							
92.10	99.20	ANOR, Anorthosite as described above Alteration 92.10 - 99.20 :CHL Chlorite, B Banded, W Weak 92.10 - 99.20 :EP Epidote, B Banded, W Weak 92.10 - 99.20 :TL Talc, Dis Disseminated, W Weak 92.10 - 99.20 :SE Sericite, B Banded, M Moderate							
99.20	99.21	EOH, End of Hole							

Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
BL00235	13.50	15.00	0.2040	0.0660	0.0190
BL00236	15.00	16.00	0.3010	0.0940	0.0270
BL00237	16.00	17.00	0.2670	0.0750	0.0250
BL00238	17.00	18.00	0.3010	0.1070	0.0240
BL00239	18.00	19.00	0.3280	0.0720	0.0270
BL00241	19.00	20.00	0.2680	0.1120	0.0240

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Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
BL00242	20.00	21.00	0.3130	0.1440	0.0250
BL00243	21.00	22.00	0.3570	0.1210	0.0290
BL00244	22.00	23.00	0.3040	0.1040	0.0270
BL00245	23.00	24.00	0.2860	0.1110	0.0230
BL00246	24.00	25.00	0.3190	0.1320	0.0270
BL00247	25.00	26.00	0.3960	0.1690	0.0310
BL00248	26.00	27.00	0.5360	0.1810	0.0410
BL00249	27.00	28.00	0.2860	0.0870	0.0230
BL00250	28.00	29.00	0.5000	0.1580	0.0390
BL00251	29.00	30.00	0.5320	0.1640	0.0390
BL00252	30.00	31.00	0.8090	0.1640	0.0570
BL00253	31.00	32.00	0.6040	0.0930	0.0430
BL00254	32.00	33.00	0.3210	0.1400	0.0250
BL00255	33.00	34.00	0.4870	0.1510	0.0370
BL00256	34.00	35.05	0.2750	0.1300	0.0220
BL00257	35.05	36.40	0.0060	0.0025	0.0020