

Hole Number: ES08-138

Units: METRIC

Project Name:	Norway - Espedalen	Primary Coordinates	Grid: UTM84-32N	Destination Coordinates	Grid: UTM:	Collar Dip:	-80.00
Project Number:	201	North:	6804897.00	North:	61.38	Collar Az:	230.00
Location:	Surface	East:	534151.00	East:	9.64	Length:	204.21 (m)
		Elev:	723.00	Elev:	723.00	Start Depth:	0.00 (m)
Date Started:	Feb 29, 2008	Collar Survey:	N	Plugged:	N	Contractor:	Arctic Drilling A/S
Date Completed:	Mar 04, 2008	Multishot Survey:	N	Hole Size:	BQ	Core Storage:	Tyristrand
Logged By:	K Leonard & R. Dammeier	Pulse EM Survey:	N	Casing:	Left in Hole	Final Depth:	204.21 (m)

Comments: Testing Dalen-central target in area of incomplete geophysical coverage. Step-out to the north-west of Hole ES08-137.

RESULTS:

82.22 - 84.13m: 5-10% disseminated and finely laminated Po and Cpy hosted in sheared, silicified gabbro.

99.53 - 103.20m: 7-15% disseminated and fracture-controlled Po and Cpy in altered pyroxenite.

Sample Averages

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	5.10	CAS, Casing							
5.10	24.24	GAB, Gabbro grey in colour, medium grained, interstitial "salt & pepper" appearance, mm-sized plagioclase phenos / pseudomorphs and amorphous/blebby hornblende-biotite-chlorite material, competent core, nil sulphides.							
24.24	40.10	ANOR, Anorthosite grey-white in colour, medium grained, brecciated appearance, 55% anorthoclase, 30% quartz, 15% mafic, foliated to sheared, competent core, nil sulphides. sharp upper and lower contacts at 80 deg to the LCA.							
40.10	47.26	GAB, Gabbro similar to unit above from 5.10 - 24.24m sharp lower contact at 90 degrees to the LCA, very competent core, nil sulphides.							
47.26	55.47	ANOR, Anorthosite white to grey in colour, foliated to sheared, locally brecciated, composed of 65% anorthoclase, 25% quartz and 15% mafic material as hairline fracture infillings. sharp lower contact at 85 degrees to the LCA, generally competent core, nil sulphides.							

Hole Number: ES08-138

Units: METRIC

Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
55.47	64.16	GAB, Gabbro very similar in appearance to the units observed above from 5.10-24.24m and 40.10 - 47.26m homogenous greenish-grey in colour, slightly less conspicuous feldspar phenos, interrupted by narrow (5cm and 9cm in width) anorthosite seams, very competent core, nil sulphides. Structure 63.71 - 64.16 sheared and bleached contact margin with UMAF unit below.							
64.16	79.60	UM, Ultramafic Pyroxenite dark grey, medium to coarse grained, massive to foliated to locally sheared, abundant pyroxene metacrysts throughout, competent core but locally strongly fractured, trace sulphides. Structure 67.16 - 67.23 slickensides with accompanying chlorite and carbonate alteration 70.00 - 70.55 : F Fractured, 15 Deg to CA low angle fracturing, carbonate healed fractures 70.00 - 70.55 sheared and bleached core							
79.60	88.90	GAB, Gabbro greenish-grey in colour. fine to-medium grained. well foliated throughout at 80 deg to the LCA. very strongly altered - moderately bleached. competent core. 82.22 - 84.13m: silicified gabbro, finely laminated, 5-10% disseminated Po and Cpy. MINOR INTERVALS: Minor Interval: 82.22 - 84.13 SULF, Sulfide silicified, altered gabbro containing 5-10% disseminated and laminated Po and Cpy +/- Pn.	PG05951	81.50	81.90	0.40	0.0070	0.0100	0.0040
			PG05952	81.90	82.22	0.32	0.0040	0.0100	0.0040
			PG05953	82.22	82.70	0.48	0.2260	0.0740	0.0160
			PG05954	82.70	83.10	0.40	0.1590	0.0430	0.0110
			PG05955	83.10	83.63	0.53	0.1080	0.0200	0.0090
			PG05956	83.63	84.13	0.50	0.1170	0.0370	0.0100
			PG05957	84.13	84.60	0.47	0.0190	0.0140	0.0040
88.90	91.62	UM, Ultramafic strongly altered, sheared Pyroxenite, abundant carb-chl stockworks and brecciation, local pockets of sulphide, fractured core.							
91.62	96.13	GAB, Gabbro strongly sheared (40 deg to the LCA) and silicified, bleached gabbro, relatively narrow unit between UMAF units. broken lower contact, trace sulphides, competent core							

Hole Number: ES08-138

Units: METRIC

Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
96.13	103.20	UM, Ultramafic similar to unit from 88.90 - 91.62m above. dark grey in colour, fine grained, becomes increasingly more altered and stockworked with carb-sulphide fracture infillings toward the lower contact. MINOR INTERVALS: Minor Interval: 99.53 - 103.2 SULF, Sulfide altered, stockworked Ultramafic containing 7-15% f.g. disseminated and fracture-controlled Po and Cpy mineralization.	PG05958	98.60	99.00	0.40	0.1070	0.0140	0.0120
			PG05959	99.00	99.53	0.53	0.0950	0.0770	0.0100
			PG05961	99.53	100.00	0.47	0.2080	0.0390	0.0180
			PG05962	100.00	100.50	0.50	0.2040	0.0720	0.0190
			PG05963	100.50	101.00	0.50	0.1650	0.0350	0.0150
			PG05964	101.00	101.50	0.50	0.2770	0.0870	0.0210
			PG05965	101.50	102.00	0.50	0.2300	0.0560	0.0170
			PG05966	102.00	102.50	0.50	0.2310	0.0430	0.0170
			PG05967	102.50	103.00	0.50	0.2700	0.1010	0.0200
			PG05968	103.00	103.40	0.40	0.1270	0.0210	0.0100
103.20	198.40	GAB, Gabbro Gabbro pale grey to white altered gabbro. Dominantly medium grained with variable Plag/PX ratio. ~1m fg mafic dyke @110m. No overall fabric, sheared and cholrite alteration present. Heterogenous competent core. Px content is low and approaches Anorthosite in localities. From 132-151 cg gabbro with 3-5mm px grains in plag groundmass. From 151 to 160.30, mg 'snowflake' textured gabbro. This subunit continues until 198.40	PG05969	103.40	103.90	0.50	0.0100	0.0025	0.0030
			PG05970	103.90	104.40	0.50	0.0030	0.0025	0.0030
			PG05971	187.30	188.30	1.00	0.0030	0.0240	0.0030
			PG05972	188.30	189.32	1.02	0.0030	0.0150	0.0030
			PG05973	189.32	190.40	1.08	0.0040	0.0260	0.0030
			PG05974	190.40	191.30	0.90	0.0030	0.0230	0.0030
198.40	204.20	ANOR, Anorthosite Anortho Pale grey to white medium to cg anortho. Barren.							
204.20	204.21	EOH, End of Hole							

Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
PG05951	81.50	81.90	0.0070	0.0100	0.0040
PG05952	81.90	82.22	0.0040	0.0100	0.0040
PG05953	82.22	82.70	0.2260	0.0740	0.0160
PG05954	82.70	83.10	0.1590	0.0430	0.0110
PG05955	83.10	83.63	0.1080	0.0200	0.0090
PG05956	83.63	84.13	0.1170	0.0370	0.0100
PG05957	84.13	84.60	0.0190	0.0140	0.0040
PG05958	98.60	99.00	0.1070	0.0140	0.0120
PG05959	99.00	99.53	0.0950	0.0770	0.0100
PG05961	99.53	100.00	0.2080	0.0390	0.0180
PG05962	100.00	100.50	0.2040	0.0720	0.0190
PG05963	100.50	101.00	0.1650	0.0350	0.0150
PG05964	101.00	101.50	0.2770	0.0870	0.0210
PG05965	101.50	102.00	0.2300	0.0560	0.0170

Hole Number: ES08-138

Units: METRIC

Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
PG05966	102.00	102.50	0.2310	0.0430	0.0170
PG05967	102.50	103.00	0.2700	0.1010	0.0200
PG05968	103.00	103.40	0.1270	0.0210	0.0100
PG05969	103.40	103.90	0.0100	0.0025	0.0030
PG05970	103.90	104.40	0.0030	0.0025	0.0030
PG05971	187.30	188.30	0.0030	0.0240	0.0030
PG05972	188.30	189.32	0.0030	0.0150	0.0030
PG05973	189.32	190.40	0.0040	0.0260	0.0030
PG05974	190.40	191.30	0.0030	0.0230	0.0030