DETAILED LOG

Hole Number: ES08-148

Units: METRIC

Project Name:	Norway - Espedalen	Primary Coordinates	Grid: UTM84-32N	Destination Coordinates	Grid: UTM:	Collar Dip:	-81.00
Project Number:	201	North:	6805074.00	North:	61.38	Collar Az:	209.30
Location:	Surface	East:	533795.00	East:	9.63	Length:	162.11 (m)
		Elev:	720.00	Elev:	720.00	Start Depth:	0.00 (m)
Date Started:	Apr 12, 2008	Collar Survey:	N	Plugged:	N	Contractor:	Arctic Drilling A/S	Final Depth:	162.11 (m)
Date Completed:	Apr 14, 2008	Multishot Survey:	N	Hole Size:	BQ	Core Storage:	Tyristrand		
Logged By:	klnor	Pulse EM Survey:	N	Casing:	Left in Hole				

Comments: This hole is positioned to test the southern perimeter of the Dalen magnetic-high anomaly. The is located about 50m from historic Hole ES04-06.

RESULTS:

10.50 - 39.20m = 28.70m 5-7% (locally up to 10%) Po >>Py > Cpy as fine grained specks and disseminations in host ULTRAMAFIC. Greater sulphide concentrations manifested as blebs, f. gr. masses and aggregates.

59.69 - 59.87m = 0.18m semi-massive (25-30%) Po > Py > Cpy vein in host GABBRO.

79.80 - 84.20m = 4.40m 5-10% (locally up to 20%) Po >> Py > Cpy as fine disseminations and fracture-controlled veinlets in host ANORTHOSITE.

Sample Averages

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	10.50	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%
10.50	45.80	UM, Ultramafic dark grey in colour, medium grained, abundant pyroxene metacrysts, strongly magnetic, weak to moderate dusting of sulphides threoughout - 2-5% range, competent core. Structure 29.00 - 29.76 strongly fractured core 36.04 - 36.10 FAULT GOUGE MINOR INTERVALS: Minor Interval: 10.5 - 39.2 SULF, Sulfide 2-5% (locally up to 10%) disseminated specks of Po >> Py > Cpy throughout. Weak sulphide halo / envelope characteristic of "low-grade" Dalen-style mineralization.	BL00323	10.50	11.00	0.50	0.1810	0.0370	0.0190
			BL00324	11.00	12.00	1.00	0.1990	0.0600	0.0200
			BL00325	12.00	13.00	1.00	0.2130	0.0840	0.0210
			BL00326	13.00	14.00	1.00	0.2310	0.0870	0.0220
			BL00327	14.00	15.00	1.00	0.2240	0.0600	0.0210
			BL00328	15.00	16.00	1.00	0.1880	0.0500	0.0190
			BL00329	16.00	17.00	1.00	0.1510	0.0800	0.0160
			BL00330	17.00	18.00	1.00	0.1990	0.0510	0.0210
			BL00331	18.00	19.00	1.00	0.1590	0.0570	0.0160
			BL00332	19.00	20.00	1.00	0.1430	0.0300	0.0160
			BL00333	20.00	21.00	1.00	0.1640	0.0430	0.0180
			BL00334	21.00	22.00	1.00	0.1540	0.0380	0.0160
			BL00335	22.00	23.00	1.00	0.2090	0.0430	0.0200
			BL00336	23.00	24.00	1.00	0.2650	0.1010	0.0240
			BL00337	24.00	25.00	1.00	0.2320	0.0570	0.0220
			BL00338	25.00	26.00	1.00	0.2310	0.0700	0.0210
			BL00339	26.00	27.00	1.00	0.2430	0.0790	0.0220
			BL00341	27.00	28.00	1.00	0.2420	0.1030	0.0200
			BL00342	28.00	29.00	1.00	0.2140	0.1120	0.0170
			BL00343	29.00	30.00	1.00	0.2330	0.1190	0.0190
			BL00344	30.00	31.00	1.00	0.1870	0.0800	0.0150
			BL00345	31.00	32.00	1.00	0.2570	0.1080	0.0200
			BL00346	32.00	33.00	1.00	0.1430	0.1340	0.0120
			BL00347	33.00	34.00	1.00	0.1530	0.0520	0.0130
			BL00348	34.00	35.00	1.00	0.1820	0.0800	0.0150
			BL00349	35.00	36.00	1.00	0.2310	0.0790	0.0180
			BL00350	36.00	37.00	1.00	0.1980	0.1120	0.0160
			BL00351	37.00	38.00	1.00	0.1750	0.0690	0.0140
			BL00352	38.00	39.00	1.00	0.1880	0.0800	0.0160
			BL00353	39.00	40.00	1.00	0.0540	0.0180	0.0080
			BL00354	40.00	41.00	1.00	0.0170	0.0025	0.0040
			BL00355	41.00	42.00	1.00	0.0160	0.0025	0.0040
45.80	59.69	GAB, Gabbro grey in color, medium grained, homogenous to weakly sheared, competent core, weakly magnetic, trace sulphides increasing in concentration below 59.00m. 59.00 - 59.69m - very local fracture in-fillings and rare clots / chunks. 1-2% overall.	BL00356	58.60	59.00	0.40	0.0350	0.0410	0.0060
			BL00357	59.00	59.60	0.60	0.1160	0.1920	0.0110
			BL00358	59.60	60.00	0.40	1.1420	0.1660	0.0930
59.69	59.87	SMS, Semi Massive Sulphide 25-30% semi-massive sulphide vein, included mafic frags and sections of gabbro host rock.							

Hole Number: ES08-148

Units: METRIC

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
59.87	64.40	GAB, Gabbro similar to the unit observed above from 45.80 - 59.69m.	BL00359	60.00	60.50	0.50	0.0610	0.0450	0.0050
			BL00361	60.50	61.00	0.50	0.0220	0.0180	0.0050
			BL00362	61.00	61.40	0.40	0.0090	0.0110	0.0040
64.40	79.80	ANOR, Anorthosite typical ANOR - light grey to off-white, medium grained, composed of anorthoclase, quartz, chlorite, biotite and sericite, strongly tectonized - cataclastic texture oriented at 60 deg to the LCA., nil to trace sulphides.	BL00363	79.00	79.40	0.40	0.0720	0.0420	0.0090
			BL00364	79.40	79.80	0.40	0.0790	0.0420	0.0080
79.80	84.20	SULF, Sulfide sheared, brecciated ANOR containing up to 30% locally of Po >> Py > Cpy as irregular aggregates, disseminations and f.grained masses.	BL00365	79.80	80.50	0.70	0.2200	0.1020	0.0180
			BL00366	80.50	81.50	1.00	0.2080	0.0550	0.0150
			BL00367	81.50	82.30	0.80	0.2300	0.1200	0.0180
			BL00368	82.30	83.00	0.70	0.7760	0.2840	0.0610
			BL00369	83.00	83.50	0.50	0.4090	0.1270	0.0330
			BL00370	83.50	84.00	0.50	0.3690	0.1190	0.0310
			BL00371	84.00	84.50	0.50	0.1690	0.0610	0.0140
84.20	96.20	ANOR, Anorthosite similar to unit observed above from 64.40 to 79.80m Structure 91.30 - 91.63 strongly fractured core	BL00372	84.50	85.00	0.50	0.0490	0.0250	0.0050
96.20	97.73	MD, Mafic Dike grey-green in colour, fine grained, nil sulphides, competent core sharp upper and lower contacts at 55 and 70 deg to the LCA respectively.							
97.73	120.58	ANOR, Anorthosite same as units above from 64.40 - 79.80m and 84.20 - 96.20m respectively. Structure 103.32 - 103.83 strongly fractured core 103.45 - 103.52 FAULT GOUGE 112.00 - 112.41 strongly brecciated core							
120.58	127.85	GAB, Gabbro LEUCOGABBRO - grey in colour, medium grained, well foliated, consistent mm-scale plag phenos., competent core, local fracturing, nil sulphides.							
127.85	130.00	ANOR, Anorthosite same as units above from 64.40 - 79.80m, 84.20 - 96.20m and 97.73 - 120.58m respectively.							
130.00	148.82	UM, Ultramafic similar to unit observed above from 10.50 - 45.80m with the exception that this unit contains only nil to trace sulphide mineralization. minor carbonate altered fractures, locally fractured core.							

DETAILED LOG

Hole Number: ES08-148

Units: METRIC

Detailed Lithology

From (m)	To (m)	Lithology
148.82	162.10	ANOR, Anorthosite White/cream grey. Strongly tectonized/sheared at 60 dtca. Not mineralized. Abundant feldpsar and minor chlorite sericite. Very sharp upper ct to UM. MINOR INTERVALS: Minor Interval: 161.2 - 161.4 MD, Mafic Dike Typical MD. Green, fg, strongly foliated @60 dtca. Very sharp upper and lower contact parallel to foliation plane. Not mineralized.
162.10	162.11	EOH, End of Hole

Assay Data

Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%

Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type ASSAY					
BL00323	10.50	11.00	0.1810	0.0370	0.0190
BL00324	11.00	12.00	0.1990	0.0600	0.0200
BL00325	12.00	13.00	0.2130	0.0840	0.0210
BL00326	13.00	14.00	0.2310	0.0870	0.0220
BL00327	14.00	15.00	0.2240	0.0600	0.0210
BL00328	15.00	16.00	0.1880	0.0500	0.0190
BL00329	16.00	17.00	0.1510	0.0800	0.0160
BL00330	17.00	18.00	0.1990	0.0510	0.0210
BL00331	18.00	19.00	0.1590	0.0570	0.0160
BL00332	19.00	20.00	0.1430	0.0300	0.0160
BL00333	20.00	21.00	0.1640	0.0430	0.0180
BL00334	21.00	22.00	0.1540	0.0380	0.0160
BL00335	22.00	23.00	0.2090	0.0430	0.0200
BL00336	23.00	24.00	0.2650	0.1010	0.0240
BL00337	24.00	25.00	0.2320	0.0570	0.0220
BL00338	25.00	26.00	0.2310	0.0700	0.0210
BL00339	26.00	27.00	0.2430	0.0790	0.0220
BL00341	27.00	28.00	0.2420	0.1030	0.0200
BL00342	28.00	29.00	0.2140	0.1120	0.0170
BL00343	29.00	30.00	0.2330	0.1190	0.0190
BL00344	30.00	31.00	0.1870	0.0800	0.0150
BL00345	31.00	32.00	0.2570	0.1080	0.0200
BL00346	32.00	33.00	0.1430	0.1340	0.0120
BL00347	33.00	34.00	0.1530	0.0520	0.0130
BL00348	34.00	35.00	0.1820	0.0800	0.0150
BL00349	35.00	36.00	0.2310	0.0790	0.0180

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Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type ASSAY					
BL00350	36.00	37.00	0.1980	0.1120	0.0160
BL00351	37.00	38.00	0.1750	0.0690	0.0140
BL00352	38.00	39.00	0.1880	0.0800	0.0160
BL00353	39.00	40.00	0.0540	0.0180	0.0080
BL00354	40.00	41.00	0.0170	0.0025	0.0040
BL00355	41.00	42.00	0.0160	0.0025	0.0040
BL00356	58.60	59.00	0.0350	0.0410	0.0060
BL00357	59.00	59.60	0.1160	0.1920	0.0110
BL00358	59.60	60.00	1.1420	0.1660	0.0930
BL00359	60.00	60.50	0.0610	0.0450	0.0050
BL00361	60.50	61.00	0.0220	0.0180	0.0050
BL00362	61.00	61.40	0.0090	0.0110	0.0040
BL00363	79.00	79.40	0.0720	0.0420	0.0090
BL00364	79.40	79.80	0.0790	0.0420	0.0080
BL00365	79.80	80.50	0.2200	0.1020	0.0180
BL00366	80.50	81.50	0.2080	0.0550	0.0150
BL00367	81.50	82.30	0.2300	0.1200	0.0180
BL00368	82.30	83.00	0.7760	0.2840	0.0610
BL00369	83.00	83.50	0.4090	0.1270	0.0330
BL00370	83.50	84.00	0.3690	0.1190	0.0310
BL00371	84.00	84.50	0.1690	0.0610	0.0140
BL00372	84.50	85.00	0.0490	0.0250	0.0050