

Hole Number: ES08-137

Units: METRIC

Project Name: Norway - Espedalen	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -80.00
Project Number: 201	North: 6804831.00	North: 61.38	Collar Az: 230.00
Location: Surface	East: 534285.00	East: 9.64	Length: 212.71 (m)
	Elev: 723.56	Elev: 723.56	Start Depth: 0.00 (m)
Date Started: Feb 23, 2008	Collar Survey: N	Plugged: N	Contractor: Arctic Drilling A/S
Date Completed: Feb 29, 2008	Multishot Survey: N	Hole Size: BQ	Core Storage: Tyrstrand
Logged By: KLNOR	Pulse EM Survey: N	Casing: Left in Hole	Final Depth: 212.71 (m)

Comments: This hole is designed to test for Ni mineralization between the Dalen North and South areas that lack geophysical coverage.

RESULTS:

95.10 - 98.0m 10-15% (up to 20%) disseminated and stringer Po with occasional blebs of Cpy and trace Pn. The mineralization is hosted in ultramafic rocks.

Sample Averages

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	5.50	CAS, Casing							
5.50	15.36	ANOR, Anorthosite reyish-white in colour, fine grained and porphyritic - mm-sized plag phenos throughout, foliated to locally sheared, numerous healed mafic-infilled microfractures, minor "apple-green" alteration stain, moderately fractured core, nil sulphides.							
15.36	30.70	GAB, Gabbro Leucogabbro grey in colour, medium grained, "snowflake" texture, abundant plag phenocrysts throughout, competent core, nil sulphides.							
30.70	37.29	ANOR, Anorthosite same as unit above from 5.50 - 15.36m MINOR INTERVALS: Minor Interval: 36.56 - 37.07 MD, Mafic Dike grey in colour, fine grained, sharp upper and lower contacts at 80 deg and 60 deg to the LCA respectively, nil sulphides.							
37.29	57.25	GAB, Gabbro same as unit above from 15.36 - 30.70m. conspicuously feldspar-phyric - light grey mm-sized pseudomorphs, locally weakly magnetic - refer to magnetic susceptibility readings, sharp lower contact at 87 deg to the LCA, bottom contact shows chilled margin, trace sulphides. Structure 53.00 - 56.80 strongly fractured leucogabbro							

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
57.25	66.42	ANOR, Anorthosite similar to units observed above from 5.50 - 15.36m and 30.70 - 37.29m. uniformly brecciated orthoclase feldspars, strongly silicified, abundant dark grey hairline fracture in-fillings - mafic material, MINOR INTERVALS: Minor Interval: 61.42 - 63.34 GAB, Gabbro narrow leucogabbro unit, plagioclase-phyric, "snowflake" texture, sharp irregular upper and lower contacts at 78 deg to the LCA, nil sulphides.							
66.42	77.18	GAB, Gabbro same as units observed above from 15.36 - 30.70m, 37.29 - 57.25m and 66.42 - 77.18m. abundantly feldspar-phyric, weakly but pervasively foliated, competent core, nil sulphides. Structure 66.42 - 77.18 : FOL Foliated, 65 Deg to CA pervasively foliated							
77.18	95.10	ANOR, Anorthosite similar to ANOR units above. 77.18 - 82.80m grey in colour, more intermediate in composition, reduction of anorthoclase, sharp contact at 82.80 @ 65 deg to the LCA., locally fractured, trace sulphides. Structure 78.90 - 79.10 : SHR Shear, 75 Deg to CA strongly laminated, fractured core 79.96 - 80.09 fractured core 82.80 - 83.09 : F Fractured, 70 Deg to CA strongly fractured along foliation 83.62 - 84.20 : F Fractured, 70 Deg to CA fractured along foliation and broken core 86.25 - 86.45 : STRFOL Strongly Foliated, 55 Deg to CA strongly foliated anorthosite 95.00 - 95.10 strongly broken core at the contact with UMAF unit below 95.00 - 95.10 : FOL Foliated, 65 Deg to CA weak, pervasive foliation 95.00 - 95.10 : STRFOL Strongly Foliated, 74 Deg to CA mafic laminations impart strong foliation	PG05941	94.00	94.50	0.50	0.0050	0.0090	0.0030
			PG05942	94.50	95.10	0.60	0.0880	0.0230	0.0080

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From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
95.10	98.00	UM, Ultramafic dark grey, fine grained, strongly magnetic, 15-20% f.g. fracture-controlled Po +/- Cpy and trace Pn mineralization throughout, broken but conspicuous upper and lower contacts at 70 deg to the LCA. MINOR INTERVALS: Minor Interval: 95.1 - 98 SULF, Sulfide 15-20% disseminated (i.e. flecks and aggregates) and fracture in-filled Po with minor Cpy and Pn hosted in ultramafic.	PG05943	95.10	95.60	0.50	0.3280	0.0690	0.0270
			PG05944	95.60	96.10	0.50	0.3250	0.1120	0.0270
			PG05945	96.10	96.60	0.50	0.3790	0.0800	0.0300
			PG05946	96.60	97.10	0.50	0.3230	0.1820	0.0270
			PG05947	97.10	97.60	0.50	0.2700	0.1190	0.0220
			PG05948	97.60	98.00	0.40	0.2790	0.0620	0.0240
98.00	106.22	ANOR, Anorthosite	PG05949	98.00	98.50	0.50	0.1720	0.0690	0.0150
			PG05950	98.50	99.00	0.50	0.0440	0.0440	0.0060
106.22	178.11	UM, Ultramafic dark grey in colour, coarse grained, massive to weakly foliated, distinctive cm-sized pyroxene metacrysts throughout, strongly magnetic, competent core, trace sulphides. proxenie metacrysts become faint from 177m to the lower contact at 178.11m Mineralization 177.00 - 178.11 : PO Pyrrhotite, DIS Disseminated, 1% low grade disseminated Po specks Structure 145.55 - 145.80 strongly fractured along foliation MINOR INTERVALS: Minor Interval: 114.1 - 116.22 MD, Mafic Dike grey in colour, fine to-medium grained, homogenous texture, intensely broken core near both upper and lower contacts, nil sulphides Structure 114.10 - 114.70 strongly fractured core 115.05 - 115.20 broken,fractured core 116.15 - 116.22 fractured core bridging the lower contact Minor Interval: 144.6 - 145.6 MD, Mafic Dike same as unit above from 114.10 - 116.22m gradational upper cntact and broken / crushed lower contact, nil sulphides.							

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From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
178.11	197.25	ANOR, Anorthosite grey - white inn colour, coarse grained, conspicuously mottled texture, distinctly more mafic from 178.11 - 185m with a sharp increase in anorthoclase below 185 to the lower contact at 197.25., distinct lower contact at 48 deg to the LCA, competent core, nil sulphides. MINOR INTERVALS: Minor Interval: 183.11 - 184.5 MD, Mafic Dike medium grey in colour, fine grained, homogenous texture, strongly fractured, 1-2% disseminated Po and coating fractures, broken / indistinct upper and lower contacts.							
197.25	212.70	GAB, Gabbro Leucogabbro - "snowflake" appearance of f.g. feldspar-phyric pseudoorphs, similar to units above from 15.36 - 30.70m, 37.29 - 57.25m and 66.42 - 77.18m. nil sulphides, competent core.							
212.70	212.71	EOH, End of Hole							

Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
PG05941	94.00	94.50	0.0050	0.0090	0.0030
PG05942	94.50	95.10	0.0880	0.0230	0.0080
PG05943	95.10	95.60	0.3280	0.0690	0.0270
PG05944	95.60	96.10	0.3250	0.1120	0.0270
PG05945	96.10	96.60	0.3790	0.0800	0.0300
PG05946	96.60	97.10	0.3230	0.1820	0.0270
PG05947	97.10	97.60	0.2700	0.1190	0.0220
PG05948	97.60	98.00	0.2790	0.0620	0.0240
PG05949	98.00	98.50	0.1720	0.0690	0.0150
PG05950	98.50	99.00	0.0440	0.0440	0.0060