

Hole Number: ES07-113

Units: METRIC

Project Name: Norway - Espedalen	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -60.00
Project Number: 201	North: 6801328.00	North: 61.34	Collar Az: 230.00
Location: Stormyra	East: 535075.00	East: 9.66	Length: 81.10 (m)
	Elev: 998.00	Elev: 998.00	Start Depth: 0.00 (m)
Date Started: Oct 13, 2007	Collar Survey: N	Plugged: N	Contractor: Arctic Drilling A/S
Date Completed:	Multishot Survey: N	Hole Size: TT46	Core Storage: Trystrand
Logged By: rdnor	Pulse EM Survey: N	Casing: Left in Hole	Final Depth: 81.10 (m)

Comments: Target: ES07-112 encountered a cavity at 33.2. ES07-113 was 20m back on same drill line, dip -60.

## Sample Averages

Average Type	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
WEIGHTED	43.60	44.40	0.80	1.1588	0.8281	0.0184
WEIGHTED	51.53	52.33	0.80	0.4974	0.1266	0.0190
WEIGHTED	58.25	58.95	0.70	5.9300	2.4850	0.1750
WEIGHTED	58.25	60.64	2.39	2.8621	1.1830	0.0857

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	2.85	O/B, Overburden							
2.85	14.92	ANOR, Anorthosite Anorthosite pale grey to green. Mainly fine grained. Banded texture alternating between light and dark coloured minerals. Between 9.30 and 12 m distinct purple/brown alteration. Feldspars are light grey to dark grey. Moderately banded although banding is distorted often. Abruptly cut by mafic dyke. Impure anorthosite. Texture 2.85 - 14.92 : HETR Heterogeneous Alteration 2.85 - 14.92 :CHL Chlorite, H Patchy, M Moderate Structure 2.85 - 14.92							
14.92	28.39	MD, Mafic Dike Mafic Dyke Green to grey/green. Fine grained. Homogenous. Speckled appearance with plag interstitial to pyroxene/olivine. No visible sulphides. Sharp upper and lower contacts. Competent.							

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Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
28.39	54.49	ANOR, Anorthosite	PG05518	42.05	43.09	1.04	0.0025	0.0025	0.0040
		Anorthosite	PG05519	43.09	43.60	0.51	0.0560	0.0370	0.0040
		Pale green to grey coloured impure anorthosite. Slightly banded with much alteration, likely chlorite. Smearred appearance. Varying mineralogical content between plag. and mafics. Crosscut by several stringers of mafic dyke. Sulphides	PG05521	43.60	43.90	0.30	1.6500	2.1100	0.0340
		4 Zones: 43.60 - 43.90 30% Sulphides 20% Po 7% Cpy 3% Pn. 48.21-48.51	PG05522	43.90	44.40	0.50	0.8640	0.0590	0.0090
		5% Sulphs. 4% Po 1% Pn. 51.53 -52.03 5% Sulphs. Mainly Po with trace Cpy and Pn. 52.03-52.33 5% Sulphs 3% Po 1% Cpy 1% Pn	PG05523	44.40	45.40	1.00	0.0530	0.0330	0.0030
		MINOR INTERVALS:	PG05524	45.40	46.79	1.39	0.0130	0.0025	0.0060
		Minor Interval:	PG05525	46.79	47.78	0.99	0.0060	0.0025	0.0050
		43.6 - 43.9 SULF, Sulfide	PG05526	47.78	48.21	0.43	0.0080	0.0025	0.0040
		30% Sulphides 20% Po 7% Cpy 3% Pn. Po is semi-massive 6 cm portion containing pentlandite eyes. Cpy is fracture filling and appears secondary.	PG05527	48.21	48.51	0.30	0.3850	0.0240	0.0170
		Mineralization	PG05528	48.51	49.00	0.49	0.0150	0.0090	0.0040
		43.60 - 43.90 : Cpy Chalcopyrite, FF Fracture Filling, 7%	PG05529	49.00	50.53	1.53	0.0310	0.0530	0.0040
		43.60 - 43.90 : PO Pyrrhotite, SM Semi-Massive, 20%	PG05530	50.53	51.53	1.00	0.0050	0.0070	0.0040
		43.60 - 43.90 : PN Pentlandite, EY Eyes, 3%	PG05531	51.53	52.03	0.50	0.3230	0.1510	0.0130
		Minor Interval:	PG05532	52.03	52.33	0.30	0.7880	0.0860	0.0290
		48.21 - 48.51 SULF, Sulfide	PG05533	52.33	52.83	0.50	0.0110	0.0640	0.0030
		48.21-48.51 5% Sulphs. 4% Po 1% Pn. Po appears as veins with fg Pn disseminated throughout.	PG05534	52.83	53.83	1.00	0.0100	0.0210	0.0040
		Mineralization							
		48.21 - 48.51 : PO Pyrrhotite, VN Veins, 4%							
		48.21 - 48.51 : PN Pentlandite, DIS Disseminated, 1%							
		Minor Interval:							
		51.53 - 52.03 SULF, Sulfide							
		51.53 -52.03 5% Sulphs. Mainly Po with trace Cpy and Pn. Patchy Po with disseminated Pn and Cpy							
		Mineralization							
		51.53 - 52.03 : PN Pentlandite, DIS Disseminated, 0.5%							
		51.53 - 52.03 : Cpy Chalcopyrite, DIS Disseminated, 0.5%							
		51.53 - 52.03 : PO Pyrrhotite, PAT Patchy, 4%							
		Minor Interval:							
		52.03 - 52.33 SULF, Sulfide							
		52.03-52.33 5% Sulphs 3% Po 1% Cpy 1% Pn. All sulphides appear as interstitial veins. Mainly Po with Pn and Cpy comprising disseminated grains within Po.							
		Mineralization							
		52.03 - 52.33 : Cpy Chalcopyrite, INT Interstitial, 1%							
		52.03 - 52.33 : PO Pyrrhotite, INT Interstitial, 3%							
		52.03 - 52.33 : PN Pentlandite, INT Interstitial, 1%							

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Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
54.49	66.72	MD, Mafic Dike	PG05535	56.75	57.75	1.00	0.0070	0.0080	0.0050
		Mafic Dyke	PG05536	57.75	58.25	0.50	0.0200	0.1140	0.0050
		Pale green to dark green. Gabbroic in composition, fine to med, grained.	PG05537	58.25	58.60	0.35	5.7300	3.2700	0.1740
		Weakly foliated .	PG05538	58.60	58.95	0.35	6.1300	1.7000	0.1760
		Homogenous and competent. Massive sulphides from 58.27 -58.92 70% Po	PG05539	58.95	59.57	0.62	0.0150	0.0340	0.0040
		15% Cpy 15% Pn. Also massive sulphs from 60.27-60.64. 60% Po 20% Cpy	PG05540	59.57	60.24	0.67	0.0060	0.0100	0.0050
		20% Pn. Both are massive Po with Pn 'eyes' and patchy to blebby Cpy. Mafic	PG05541	60.24	60.64	0.40	6.6900	2.6500	0.1910
		Dyke has sharp upper and lower contacts with impure anorthosite.	PG05542	60.64	61.14	0.50	0.0400	0.0530	0.0070
		MINOR INTERVALS:	PG05543	61.14	62.14	1.00	0.0380	0.0510	0.0060
		Minor Interval:	PG05544	62.14	63.05	0.91	0.0060	0.0070	0.0050
		58.27 - 58.92 MS, Massive Sulphide	PG05545	63.05	64.01	0.96	0.0025	0.0080	0.0050
		Massive Sulphides	PG05546	64.01	64.89	0.88	0.0060	0.0070	0.0050
		70% massive Po with 15% eyes of Pn and 15% disseminated Cpy. Pn eyes	PG05547	64.89	65.39	0.50	0.0440	0.0370	0.0060
		range from <1 to 4mm.	PG05548	65.39	65.69	0.30	0.2090	0.1480	0.0100
		Mineralization	PG05549	65.69	66.22	0.53	0.0025	0.0080	0.0050
		58.27 - 58.92 : PN Pentlandite, EY Eyes, 15%	PG05551	66.22	67.21	0.99	0.0070	0.0080	0.0050
		58.27 - 58.92 : Cpy Chalcopyrite, DIS Disseminated, 15%							
		58.27 - 58.92 : PO Pyrrhotite, Mass Massive, 70%							
		Minor Interval:							
		60.27 - 60.64 MS, Massive Sulphide							
		Mineralization							
		60.27 - 60.64 : Cpy Chalcopyrite, BL Blebby, 20%							
		Patchy to Blebby							
		60.27 - 60.64 : PO Pyrrhotite, Mass Massive, 60%							
		60.27 - 60.64 : PN Pentlandite, EY Eyes, 20%							
		Minor Interval:							
		65.38 - 65.68 SULF, Sulfide							
		Disseminated Sulphides							
		3% disseminated Cpy 1% Po. Sulphides concentrated along 8cm portion of							
		sample. Hosted in stringer of anorthosite mixed with mafic dyke.							
		Mineralization							
		65.38 - 65.68 : PO Pyrrhotite, DIS Disseminated, 1%							
		65.38 - 65.68 : Cpy Chalcopyrite, DIS Disseminated, 3%							

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Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
66.72	81.09	ANOR, Anorthosite Anorthosite White to grey to dull green. Compositionally banded alternating plag, with mafic minerals. Bands range from 1 to 5 mm. Bands are perp. to core axis. Unit cut by two ~30cm mafic dykes with sharp contacts. Moderate Chlorite alteration. Sulphides from 69.02 to 69.32. Competent. Alteration 66.72 - 81.09 :CHL Chlorite, BN Banded, M Moderate MINOR INTERVALS: Minor Interval: 69.02 - 69.32 SULF, Sulfide Sulphides Mainly concentrated along 4 cm portion of semi-massive Po with Pn 'eyes'. Fracture controlled Cpy. Sample contains 10% sulphides, 7% Po 2% Pn 1% Cpy. Mineralization 69.02 - 69.32 : PN Pentlandite, E Eyes, 2% eyes and disseminated 69.02 - 69.32 : Cpy Chalcopyrite, FF Fracture Filling, 1% Found within a fracture 69.02 - 69.32 : PO Pyrrhotite, SM Semi-Massive, 7%	PG05552	67.21	67.91	0.70	0.0360	0.0420	0.0050
			PG05553	67.91	68.60	0.69	0.0050	0.0025	0.0040
			PG05554	68.60	69.11	0.51	0.0060	0.0025	0.0030
			PG05555	69.11	69.32	0.21	1.1950	0.2990	0.0320
			PG05556	69.32	70.33	1.01	0.0070	0.0110	0.0020
81.09	81.10	EOH, End of Hole							

## Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
PG05518	42.05	43.09	0.0025	0.0025	0.0040
PG05519	43.09	43.60	0.0560	0.0370	0.0040
PG05521	43.60	43.90	1.6500	2.1100	0.0340
PG05522	43.90	44.40	0.8640	0.0590	0.0090
PG05523	44.40	45.40	0.0530	0.0330	0.0030
PG05524	45.40	46.79	0.0130	0.0025	0.0060
PG05525	46.79	47.78	0.0060	0.0025	0.0050
PG05526	47.78	48.21	0.0080	0.0025	0.0040
PG05527	48.21	48.51	0.3850	0.0240	0.0170
PG05528	48.51	49.00	0.0150	0.0090	0.0040
PG05529	49.00	50.53	0.0310	0.0530	0.0040
PG05530	50.53	51.53	0.0050	0.0070	0.0040
PG05531	51.53	52.03	0.3230	0.1510	0.0130
PG05532	52.03	52.33	0.7880	0.0860	0.0290

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## Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
PG05533	52.33	52.83	0.0110	0.0640	0.0030
PG05534	52.83	53.83	0.0100	0.0210	0.0040
PG05535	56.75	57.75	0.0070	0.0080	0.0050
PG05536	57.75	58.25	0.0200	0.1140	0.0050
PG05537	58.25	58.60	5.7300	3.2700	0.1740
PG05538	58.60	58.95	6.1300	1.7000	0.1760
PG05539	58.95	59.57	0.0150	0.0340	0.0040
PG05540	59.57	60.24	0.0060	0.0100	0.0050
PG05541	60.24	60.64	6.6900	2.6500	0.1910
PG05542	60.64	61.14	0.0400	0.0530	0.0070
PG05543	61.14	62.14	0.0380	0.0510	0.0060
PG05544	62.14	63.05	0.0060	0.0070	0.0050
PG05545	63.05	64.01	0.0025	0.0080	0.0050
PG05546	64.01	64.89	0.0060	0.0070	0.0050
PG05547	64.89	65.39	0.0440	0.0370	0.0060
PG05548	65.39	65.69	0.2090	0.1480	0.0100
PG05549	65.69	66.22	0.0025	0.0080	0.0050
PG05551	66.22	67.21	0.0070	0.0080	0.0050
PG05552	67.21	67.91	0.0360	0.0420	0.0050
PG05553	67.91	68.60	0.0050	0.0025	0.0040
PG05554	68.60	69.11	0.0060	0.0025	0.0030
PG05555	69.11	69.32	1.1950	0.2990	0.0320
PG05556	69.32	70.33	0.0070	0.0110	0.0020