

Hole Number: ES07-126

Units: METRIC

Project Name: Norway - Espedalen	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -79.00
Project Number: 201	North: 6801174.00	North: 61.34	Collar Az: 230.00
Location: Stormyra	East: 535374.00	East: 9.66	Length: 147.01 (m)
	Elev: 968.00	Elev: 968.00	Start Depth: 0.00 (m)
Date Started: Nov 16, 2007	Collar Survey: N	Plugged: N	Contractor: Arctic Drilling A/S
Date Completed: Nov 19, 2007	Multishot Survey: N	Hole Size: TT46	Core Storage: Tyrstrand
Logged By: awnor	Pulse EM Survey: N	Casing: Left in Hole	Final Depth: 147.01 (m)

Comments: Target: In fill drilling grid east of ES2004-09 on 11650E.

Result: It did hit:

8% Sulphides/30cm @ 99.2m w/ 4% Po, 4% Cpy

55% Sulphides/50cm @ 99.5m w/ 20% Cpy, 12% Pn, 13% Po, rest Py

50% Sulphides/55cm @ 100.15m w/ 20% Cpy, 15% Pn, 10% Po, rest Py

5% Sulphides/1m @ 100.7m w/ 3% Cpy, 2% Po

40% Sulphides/30cm @ 101.7m w/ 20% Cpy, 10% Pn, 8% Po, rest Py

25% Sulphides/20cm @ 102.6m w/ 15% Cpy, 4% Pn, 6%Po

5% Sulphides/50cm @ 102.8m w/ 4% Po, 1% Cpy

8% Sulphides/30cm @ 103.7m w/ 3% Cpy, 5% Po

15% Sulphides/70cm @ 104.3m w/ 4% Cpy, 10% Po, rest Py

10% Sulphides/50cm @105m w/ 5% Cpy, 5% Po/Pn?

and some more:

5% Sulphides/50cm @107.9m w/ 3% Cpy, 2% Po

8% Sulphides/45cm @108.4m w/ 4% Cpy, 4% Po

45% Sulphides/30cm @ 110.45m w/ 15% Cpy, 8% Pn, 20% Po, rest Py

Sample Averages

Average Type	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
WEIGHTED	99.20	105.50	6.30	1.0703	0.5647	0.0466
WEIGHTED	99.20	110.75	11.55	0.6645	0.3783	0.0289
WEIGHTED	99.50	102.80	3.30	1.6616	0.9076	0.0730

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	12.25	O/B, Overburden							
12.25	16.50	MD, Mafic Dike MD, Mafic Dyke fine grained Pyroxene and Plagioclase with 1.6m white, green lensoid banded Anorthosite with 80% Plagioclase and 15% Chlorite at 13.45m.							
16.50	17.05	LC, Lost Core LC, Lost Core							

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
17.05	18.20	MD, Mafic Dyke MD, Mafic Dyke same as above ROD for the hole box is 40%, Mafic Dyke is quite broken up. Also the first 40cm in the next box are strongly broken up - fault zone? Structure 18.00 - 18.20 Fault zone with strongly broken up core.							
18.20	31.85	ANOR, Anorthosite ANOR, Anorthosite Lensoid banded, white, green Anorthosite with 75% Plagioclase and 25% Chlorite. No major structures in the Anorthosite. There are 4 bands of Mafic Dyke at 15.5m, 24.6m and 26.74m. They are all in between 60cm and 1.5m. The first one at 19.5m is strongly broken up - 50cm fault zone? Structure 19.50 - 20.00 Fault zone in Mafic Dyke, strongly broken up core.							
31.85	38.50	MD, Mafic Dyke MD, Mafic Dyke fine grained 80% Pyroxene and 20% Plagioclase. ROD 65% At 37.3m there is a 20cm area with broken up core pieces - no piece bigger than 5cm. Structure 32.10 - 38.50 : F Fractured, 45 Deg to CA multiple fractures at 45-50CA							

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
38.50	75.15	ANOR, Anorthosite ANOR, Anorthosite White, green, purple lensoid banded to brecciated Anorthosite with 60% Plagioclase, 35 % Chlorite, Epidote and Hematite/Ankerite? and 15% Quartz. There are a few smaller Mafic Dykes throughout - one at 40m has about 10cm of strongly broken core (no piece bigger than 3cm). 49.68-75.15m medium grey, green, purple in parts lensoid banded, in parts mottled and in parts brecciated looking Anorthosite. Structure 38.60 - 38.60 : Frct Fracture, 50 Deg to CA 38.65 - 38.65 : Frct Fracture, 50 Deg to CA 38.70 - 38.70 : Frct Fracture, 70 Deg to CA 38.80 - 38.80 Two fractures - one at 85CA and one at 45CA 39.20 - 39.20 : Frct Fracture, 50 Deg to CA 40.50 - 40.50 : Frct Fracture, 50 Deg to CA 41.50 - 41.50 : Frct Fracture, 45 Deg to CA 47.10 - 47.20 little fault zone 47.40 - 47.40 : Frct Fracture, 45 Deg to CA 50.20 - 50.20 : Frct Fracture, 45 Deg to CA 59.30 - 59.50 : F Fractured, 40 Deg to CA three fractures at 40CA with 1-5cm in between 63.40 - 63.50 : F Fractured, 45 Deg to CA three fractures at 45CA with 1-5cm in between 68.80 - 68.90 : F Fractured, 45 Deg to CA multiple fractures at 45CA							
75.15	79.20	MD, Mafic Dike MD, Mafic Dyke light grey/green mafic dyke with 65% Pyroxene and 35% Plagioclase - both fine grained. Structure 77.30 - 77.45 : F Fractured, 25 Deg to CA multiple fractures at 25CA							
79.20	99.20	ANOR, Anorthosite ANOR, Anorthosite White, green, grey lensoid banded to mottled looking Anorthosite with 85% Plagioclase and 15% Chlorite, Epidote and Hematite/Ankerite? Few fractures at 35 to 45CA. Structure 88.85 - 88.85 : Frct Fracture, 45 Deg to CA 95.10 - 95.20 : Frct Fracture, 30 Deg to CA 97.20 - 97.20 : Frct Fracture, 45 Deg to CA	PG05714	98.10	98.70	0.60	0.0030	0.0025	0.0005
			PG05715	98.70	99.20	0.50	0.0030	0.0025	0.0005

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
99.20	105.75	MD, Mafic Dyke	PG05716	99.20	99.50	0.30	0.3430	0.2640	0.0160
		MD, Mafic Dyke	PG05717	99.50	99.85	0.35	4.9900	1.1440	0.1630
		mineralized mafic dyke with up to 40cm bands of Anorthosite in between:	PG05718	99.85	100.15	0.30	0.0420	0.1440	0.0030
		8% Sulphides/30cm @ 99.2m w/ 4% Po, 4% Cpy	PG05719	100.15	100.70	0.55	3.6220	2.4210	0.1830
		55% Sulphides/50cm @ 99.5m w/ 20% Cpy, 12% Pn, 13% Po, rest Py	PG05721	100.70	101.70	1.00	0.2440	0.3670	0.0090
		50% Sulphides/55cm @ 100.15m w/ 20% Cpy, 15% Pn, 10% Po, rest Py	PG05722	101.70	102.00	0.30	3.1000	2.3660	0.1450
		5% Sulphides/1m @ 100.7m w/ 3% Cpy, 2% Po	PG05723	102.00	102.60	0.60	0.0390	0.0590	0.0020
		40% Sulphides/30cm @ 101.7m w/ 20% Cpy, 10% Pn, 8% Po, rest Py	PG05724	102.60	102.80	0.20	2.6740	0.5380	0.1430
		25% Sulphides/20cm @ 102.6m w/ 15% Cpy, 4% Pn, 6%Po	PG05725	102.80	103.30	0.50	0.1560	0.1280	0.0120
		5% Sulphides/50cm @ 102.8m w/ 4% Po, 1% Cpy	PG05726	103.30	103.70	0.40	0.0560	0.0410	0.0040
		8% Sulphides/30cm @ 103.7m w/ 3% Cpy, 5% Po	PG05727	103.70	104.00	0.30	0.3710	0.1210	0.0220
		15% Sulphides/70cm @ 104.3m w/ 4% Cpy, 10% Po, rest Py	PG05728	104.00	104.30	0.30	0.0730	0.0490	0.0050
		10% Sulphides/50cm @105m w/ 5% Cpy, 5% Po/Pn?	PG05729	104.30	105.00	0.70	0.5630	0.1750	0.0220
		Mineralization	PG05730	105.00	105.50	0.50	1.0580	0.4590	0.0330
		99.20 - 99.50 : PO Pyrrhotite, D Disseminated, 8%	PG05731	105.50	106.00	0.50	0.1050	0.0730	0.0060
		4% Cpy, 4% Po							
		100.15 - 100.70 : POPNCP Pyrrhotite/Pentlandite/Chalcopyrite, Mass							
		Massive, 50%							
		20% Cpy, 15% Pn, 10% Po, rest Py							
		101.70 - 102.00 : POPNCP Pyrrhotite/Pentlandite/Chalcopyrite, Mass							
		Massive, 40%							
		20% Cpy, 10% Pn, 8% Po, rest Py							
		102.80 - 103.30 : POPNCP Pyrrhotite/Pentlandite/Chalcopyrite, D							
		Disseminated, 5%							
		4% Po, 1% Cpy and Py							
		104.30 - 105.00 : PO Pyrrhotite, D Disseminated, 15%							
		4% Cpy, 10% Po							
		99.50 - 99.85 : POPNCP Pyrrhotite/Pentlandite/Chalcopyrite, Mass							
		Massive, 55%							
		20% Cpy, 12% Pn, 13% Po, rest Py							
		100.70 - 101.70 : PO Pyrrhotite, D Disseminated, 5%							
		3% Cpy, 2% Po							
		102.60 - 102.80 : POPNCP Pyrrhotite/Pentlandite/Chalcopyrite, SM							
		Semi-Massive, 25%							
		15% Cpy, 4% Pn, 6% Po							
		103.70 - 104.00 : POPNCP Pyrrhotite/Pentlandite/Chalcopyrite, D							
		Disseminated, 8%							
		3% CPY, 5% Po and Py							
		105.00 - 105.50 : POPNCP Pyrrhotite/Pentlandite/Chalcopyrite, D							
		Disseminated, 10%							
		5% Cpy, 5% Po/Pn?							

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From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
105.75	110.80	ANOR, Anorthosite ANOR, Anorthosite Mottled looking, white, green Anorthosite with 60% Plagioclase, 20% Quartz and 20% Chlorite and Epidote. Three bands of mineralized mafic dyke: 5% Sulphides/50cm @107.9m w/ 3% Cpy, 2% Po 8% Sulphides/45cm @108.4m w/ 4% Cpy, 4% Po 45% Sulphides/30cm @ 110.45m w/ 15% Cpy, 8% Pn, 20% Po, rest Py Mineralization 107.95 - 108.40 : Cpy Chalcopyrite, D Disseminated, 5% 3% Cpy, 2% Po 110.45 - 110.75 : POPNCP Pyrrhotite/Pentlandite/Chalcopyrite, Mass Massive, 45% 15% Cpy, 8% Pn, 20% Po, rest Py 108.40 - 108.85 : Cpy Chalcopyrite, D Disseminated, 8% 4% Cpy, 4% Po	PG05732	106.00	107.00	1.00	0.0060	0.0070	0.0005
			PG05733	107.00	107.90	0.90	0.0060	0.0025	0.0005
			PG05734	107.90	108.40	0.50	0.3950	0.2020	0.0180
			PG05735	108.40	108.85	0.45	0.7450	0.3220	0.0310
			PG05736	108.85	109.85	1.00	0.0140	0.0190	0.0020
			PG05737	109.85	110.45	0.60	0.0080	0.0025	0.0020
			PG05738	110.45	110.75	0.30	1.0560	1.6650	0.0350
			PG05739	110.75	111.35	0.60	0.0080	0.0025	0.0020
110.80	112.90	ANOR, Anorthosite ANOR, Anorthosite Lensoid banded looking white, grey, purple, some light green Anorthosite with 70% Plagioclase and 30% Chlorite, Epidote, Hematite/Ankerite?	PG05741	111.35	112.00	0.65	0.0110	0.0060	0.0030
112.90	147.00	ANOR, Anorthosite ANOR, Anorthosite White, grey, green, purple, lensoid banded to mottled to brecciated looking Anorthosite with 55% Plagioclase, 20% Chlorite, Epidote, Hematite/Ankerite? and 20% Quartz. Four small fault zones: 20 cm at 112.9m with small rock pieces 20cm at 126.6m with small rock pieces 30cm at 131.0m with small rock pieces 20cm at 145.2m with small rock pieces Mafic Dykes: 1.5m at 139.4m 1.5m at 141.2m 40cm at 143.8m Structure 112.90 - 113.10 lots of small pieces 126.60 - 126.80 lots of small pieces 131.00 - 131.30 lots of small pieces 145.20 - 145.40 lots of small pieces							
147.00	147.01	EOH, End of Hole							

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Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
PG05714	98.10	98.70	0.0030	0.0025	0.0005
PG05715	98.70	99.20	0.0030	0.0025	0.0005
PG05716	99.20	99.50	0.3430	0.2640	0.0160
PG05717	99.50	99.85	4.9900	1.1440	0.1630
PG05718	99.85	100.15	0.0420	0.1440	0.0030
PG05719	100.15	100.70	3.6220	2.4210	0.1830
PG05721	100.70	101.70	0.2440	0.3670	0.0090
PG05722	101.70	102.00	3.1000	2.3660	0.1450
PG05723	102.00	102.60	0.0390	0.0590	0.0020
PG05724	102.60	102.80	2.6740	0.5380	0.1430
PG05725	102.80	103.30	0.1560	0.1280	0.0120
PG05726	103.30	103.70	0.0560	0.0410	0.0040
PG05727	103.70	104.00	0.3710	0.1210	0.0220
PG05728	104.00	104.30	0.0730	0.0490	0.0050
PG05729	104.30	105.00	0.5630	0.1750	0.0220
PG05730	105.00	105.50	1.0580	0.4590	0.0330
PG05731	105.50	106.00	0.1050	0.0730	0.0060
PG05732	106.00	107.00	0.0060	0.0070	0.0005
PG05733	107.00	107.90	0.0060	0.0025	0.0005
PG05734	107.90	108.40	0.3950	0.2020	0.0180
PG05735	108.40	108.85	0.7450	0.3220	0.0310
PG05736	108.85	109.85	0.0140	0.0190	0.0020
PG05737	109.85	110.45	0.0080	0.0025	0.0020
PG05738	110.45	110.75	1.0560	1.6650	0.0350
PG05739	110.75	111.35	0.0080	0.0025	0.0020
PG05741	111.35	112.00	0.0110	0.0060	0.0030