

## DETAILED LOG

Hole Number: ES07-82

Units: METRIC

Project Name: Norway - Espedalen	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -45.80
Project Number: 201	North: 6806417.90	North: 61.39	Collar Az: 230.60
Location: Andreasburg	East: 534934.69	East: 9.65	Length: 107.31 (m)
	Elev: 1012.98	Elev: 1012.98	Start Depth: 0.00 (m)
Date Started: Aug 10, 2007	Collar Survey: Y	Plugged: N	Contractor: Geo Drilling A/S
Date Completed: Aug 12, 2007	Multishot Survey: N	Hole Size: BQ	Core Storage: Tyrstrand
Logged By: klnor	Pulse EM Survey: N	Casing: Left in Hole, capped	Final Depth: 107.31 (m)

Comments: ES07-83 will test the downdip extension of mineralization intersected in Hole ES07-81 and 82 respectively. The hole is targeting the gossanous outcrops located about 700m north of Andreasburg.

## Sample Averages

Average Type	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
WEIGHTED	65.70	70.50	4.80	0.2791	0.1229	0.0214

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	1.60	CAS, Casing							



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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
21.60	45.20	ANOR, Anorthosite purplish grey in colour, strongly fractured and foliated, cm-sized anorthoclase subhedra throughout up to 60%, core becomes more siliceous past 30m Texture 21.60 - 45.20 : IDIO Idiomorphic Alteration 29.10 - 29.30 :EP Epidote, Dis Disseminated, M Moderate on fracture faces Structure 23.90 - 26.60 : F Fractured, 40 Deg to CA 23.90 - 30.05 32.70 - 33.20 : F Fractured, 48 Deg to CA 32.90 - 33.95 : F Fractured, 25 Deg to CA 34.50 - 36.20 : F Fractured, 38 Deg to CA 36.70 - 36.95 36.85 - 37.10 38.45 - 38.70 39.60 - 39.80 : F Fractured, 43 Deg to CA 40.60 - 41.25 40.85 - 40.92 41.12 - 41.97 : F Fractured, 52 Deg to CA 44.60 - 45.00 : F Fractured, 38 Deg to CA Po on fractures 45.00 - 45.20 : SHR Shear, 50 Deg to CA							

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From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
45.20	73.45	UM, Ultramafic dark brownish grey in colour, medium grained, locally strongly fractured, pyroxenite-bearing, broken, sheared contact with anorthosite above at 90 deg. to the LCA, strongly magnetic from 51.00 to 73.00m, slickensided fractures coated with chlorite. Mineralization 67.80 - 68.40 : Cpy Chalcopyrite, BB Blebby, 0.5% 68.40 - 70.00 : PO Pyrrhotite, DIS Disseminated, 0.5% 65.70 - 66.04 : PO Pyrrhotite, DIS Disseminated, 2% 66.33 - 66.78 : PO Pyrrhotite, DIS Disseminated, 2% 66.04 - 66.33 : PO Pyrrhotite, DIS Disseminated, 0.5% 66.78 - 67.80 : PO Pyrrhotite, DIS Disseminated, 1% 67.80 - 68.40 : PO Pyrrhotite, DIS Disseminated, 5% 70.00 - 70.50 : PO Pyrrhotite, DIS Disseminated, 3% 70.50 - 71.48 : PO Pyrrhotite, DIS Disseminated, 0.5% 71.48 - 72.95 : PO Pyrrhotite, DIS Disseminated, 1.5% Structure 53.23 - 53.38 53.45 - 53.53 54.60 - 54.90 58.20 - 58.80 : FOL Foliated, 48 Deg to CA 64.10 - 64.20 : FOL Foliated, 54 Deg to CA 66.10 - 66.20 : FOL Foliated, 50 Deg to CA 69.85 - 69.90 : FOL Foliated, 55 Deg to CA 70.85 - 71.90 : FOL Foliated, 58 Deg to CA	PG07799	64.00	64.50	0.50	0.1200	0.0230	0.0120
			PG07801	64.50	65.00	0.50	0.1100	0.0230	0.0120
			PG07802	65.00	65.70	0.70	0.1030	0.0330	0.0130
			PG07803	65.70	66.10	0.40	0.2440	0.0890	0.0160
			PG07804	66.10	66.80	0.70	0.3970	0.0800	0.0230
			PG07805	66.80	67.40	0.60	0.1380	0.0290	0.0180
			PG07806	67.40	67.80	0.40	0.3730	0.2790	0.0260
			PG07807	67.80	68.40	0.60	0.5030	0.2030	0.0320
			PG07808	68.40	69.00	0.60	0.1710	0.0470	0.0170
			PG07809	69.00	69.50	0.50	0.1790	0.0680	0.0190
			PG07810	69.50	70.00	0.50	0.2260	0.2400	0.0200
			PG07811	70.00	70.50	0.50	0.2510	0.1310	0.0200
			PG07812	70.50	71.00	0.50	0.1460	0.0640	0.0170
			PG07813	71.00	71.40	0.40	0.1280	0.0360	0.0180
			PG07814	71.40	72.00	0.60	0.1400	0.0890	0.0160
			PG07815	72.00	72.50	0.50	0.1800	0.1280	0.0170
			PG07816	72.50	73.00	0.50	0.2140	0.1040	0.0180
			PG07817	73.00	73.45	0.45	0.0970	0.0940	0.0120
73.45	107.30	ANOR, Anorthosite light to dark grey, generally non-magnetic except where mineralized, two zones of disseminated Po mineralization from 84.5 to 87m and 95.0 to 104m, well foliated at 43-50 deg to the LCA, majority of the section consists of white, massive to mottled anorthosite and subordinate dark, fine grained mafic (leucogabbro) bands, Overall the unit consists of 65-75% anorthosite, 20-25% pyroxene-bearing dark grey-green material and 5-10% pink to red altered garnets and 1-3% biotite., noticeable change below 104.70m the unit becomes strongly silicified and original textures have been obliterated, locally garnetiferous.	PG07818	84.40	85.00	0.60	0.0270	0.0070	0.0080
			PG07819	85.00	85.50	0.50	0.0500	0.0210	0.0110
			PG07821	85.50	86.00	0.50	0.0570	0.0220	0.0120
			PG07822	86.00	86.50	0.50	0.0160	0.0120	0.0100
			PG07823	86.50	87.00	0.50	0.0180	0.0110	0.0110
			PG07824	95.00	95.50	0.50	0.0080	0.0060	0.0090
			PG07825	95.50	96.00	0.50	0.0270	0.0240	0.0110
			PG07826	96.00	96.75	0.75	0.0130	0.0060	0.0100
			PG07827	96.75	97.50	0.75	0.0200	0.0190	0.0100
			PG07828	97.50	98.00	0.50	0.0140	0.0130	0.0090
			PG07829	98.00	99.00	1.00	0.0070	0.0070	0.0080
			PG07830	99.00	100.00	1.00	0.0100	0.0130	0.0090
			PG07831	100.00	100.50	0.50	0.0060	0.0110	0.0080
			PG07832	100.50	101.00	0.50	0.0070	0.0070	0.0110
			PG07833	101.00	101.50	0.50	0.0140	0.0100	0.0090
			PG07834	101.50	102.00	0.50	0.0400	0.0300	0.0110
			PG07835	102.00	103.00	1.00	0.0600	0.0620	0.0150
			PG07836	103.00	104.00	1.00	0.0025	0.0130	0.0080
			PG07837	104.00	104.68	0.68	0.0025	0.0070	0.0030

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107.30	107.31	EOH, End of Hole							

## Samples

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Sample Type	ASSAY				
PG07799	64.00	64.50	0.1200	0.0230	0.0120
PG07801	64.50	65.00	0.1100	0.0230	0.0120
PG07802	65.00	65.70	0.1030	0.0330	0.0130
PG07803	65.70	66.10	0.2440	0.0890	0.0160
PG07804	66.10	66.80	0.3970	0.0800	0.0230
PG07805	66.80	67.40	0.1380	0.0290	0.0180
PG07806	67.40	67.80	0.3730	0.2790	0.0260
PG07807	67.80	68.40	0.5030	0.2030	0.0320
PG07808	68.40	69.00	0.1710	0.0470	0.0170
PG07809	69.00	69.50	0.1790	0.0680	0.0190
PG07810	69.50	70.00	0.2260	0.2400	0.0200
PG07811	70.00	70.50	0.2510	0.1310	0.0200
PG07812	70.50	71.00	0.1460	0.0640	0.0170
PG07813	71.00	71.40	0.1280	0.0360	0.0180
PG07814	71.40	72.00	0.1400	0.0890	0.0160
PG07815	72.00	72.50	0.1800	0.1280	0.0170
PG07816	72.50	73.00	0.2140	0.1040	0.0180
PG07817	73.00	73.45	0.0970	0.0940	0.0120
PG07818	84.40	85.00	0.0270	0.0070	0.0080
PG07819	85.00	85.50	0.0500	0.0210	0.0110
PG07821	85.50	86.00	0.0570	0.0220	0.0120
PG07822	86.00	86.50	0.0160	0.0120	0.0100
PG07823	86.50	87.00	0.0180	0.0110	0.0110
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PG07837	104.00	104.68	0.0025	0.0070	0.0030