

DETAILED LOG

Hole Number: ES07-78

Units: METRIC

Project Name: Norway - Espedalen	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -60.20
Project Number: 201	North: 6805769.50	North: 61.38	Collar Az: 218.70
Location: Andreasburg	East: 535230.04	East: 9.66	Length: 105.61 (m)
	Elev: 1022.27	Elev: 1022.27	Start Depth: 0.00 (m)
Date Started: Jul 22, 2007	Collar Survey: Y	Plugged: N	Contractor: Geo Drilling A/S
Date Completed: Jul 25, 2007	Multishot Survey: N	Hole Size: TT46	Core Storage: tyistrand farm
Logged By: ccnor	Pulse EM Survey: N	Casing: Left in Hole, capped	Final Depth: 105.61 (m)

Comments: Target: Hole testing down dip extension of sulphides intersected in Hole ES07-68 (SMS from 44.55 to 44.95m consisting of 30% Po, 5% Pn, and 3% Cpy)

Result: Hole intersected pyroxenite from 6.5 to 59.2m followed by anorthosite. Pyroxenite weakly mineralized near lower contact (from 54.0 to 59.2m consisting of 1-3% net to stringer Po)

Sample Averages

Average Type	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
WEIGHTED	54.00	59.20	5.20	0.2400	0.1125	0.0156

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	2.65	O/B, Overburden							
2.65	6.50	GAB, Gabbro (leucogabbro) Light grey, non magnetic (0.6 on mag sus), non mineralized and non conductive. well foliated 60 DTCA. lower contact is gradational and defined by a gradual change in color and increased magnetism. Structure 4.50 - 4.50 : FOL Foliated, 60 Deg to CA							

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From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
6.50	59.20	PYXT, Pyroxenite (oikocrystic pyroxenite)	PG07694	53.00	54.00	1.00	0.1200	0.0170	0.0130
			PG07695	54.00	55.00	1.00	0.2170	0.0560	0.0150
			PG07696	55.00	56.00	1.00	0.2120	0.0840	0.0160
			PG07697	56.00	57.00	1.00	0.2280	0.1090	0.0160
			PG07698	57.00	58.00	1.00	0.2540	0.1900	0.0150
			PG07701	58.00	58.90	0.90	0.0790	0.0720	0.0090
			PG07702	58.90	59.20	0.30	0.8870	0.2700	0.0370
		Dark grey to black, strongly magnetic (up to 50 on mag sus), non conductive and weakly mineralized with tr-2 % Po. Mineralizaion concentrated near lower contact (see mineralization tab) Unit is consists of two sizes of pyroxenes including 1.0cm diameter light reddish (oikocrysts) (20-30%) and smaller 0.25 cm diameter sizes (40-50%). Altered greenish cloudy olivines (10%) and pervasive serpentinite (10%) and lesser (1-5%) magnetite veinlets.							
		Oikocrysts best developed from 38 to 52 m. From 52 to lower contact oikiocrystic texture fades and unit becomes fine grained and well foiliated.							
		Magnetite and serpentinite veinlets define overall fabric 50-60 DTCA.							
		Lower contact faulted 60 DTCA .							
		Mineralization							
		53.00 - 54.00							
		55.00 - 57.00 : PO Pyrrhotite, DIS Disseminated, 2% net to diss							
		58.00 - 58.90							
		54.00 - 55.00 : PO Pyrrhotite, DIS Disseminated, 1% net to diss							
		57.00 - 58.00 : PO Pyrrhotite, STR Stringers, 2% net to stringer, Trace CPY and PN?							
		58.90 - 59.20 : PO Pyrrhotite, STR Stringers, 3% net to stringer, trace CPY							
		Structure							
		9.00 - 9.00 : FOL Foliated, 60 Deg to CA							
		23.00 - 23.00 : FLT Fault, 55 Deg to CA							

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From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
59.20	105.60	ANOR, Anorthosite (Anorthosite with mixed leucogabbro and mafic dikes)	PG07703	59.20	60.00	0.80	0.0270	0.0270	0.0050
			PG07704	60.00	61.00	1.00	0.0200	0.0080	0.0060
			PG07705	89.00	89.50	0.50	0.0150	0.0110	0.0060
			PG07706	89.50	90.00	0.50	0.0270	0.0100	0.0040
			PG07707	90.00	91.30	1.30	0.0240	0.0200	0.0040
			PG07708	91.30	91.70	0.40	0.0680	0.0470	0.0140
			PG07709	91.70	92.20	0.50	0.0390	0.0060	0.0040
			PG07710	92.20	93.00	0.80	0.0140	0.0050	0.0050
		Light grey, green and black. heterogenous mixture of leucogabbro and foliated anorthosite. Overall non magnetic and non mineralized with the exception of minor decimetric intervals of Po stringers and disseminations (see mineralization tab). Unit consists of mostly light grey to white anorthosite (80-90%), with speckled bands of pinhead sized reddish pink garnets? (10-15%). Minor green serp. veinlets throughout. overall unit is crudley banded with centimetric wide dark green to dark grey (more mafic) bands. Mafic banding define foliation (45 to 65 DTCA) Darker bands associated with increased mineralization.							
		Sheared mafic dikes near upper contact. Some dikes mineralized weakly with Po. See minor units for description.							
		Mineralization							
		89.00 - 90.00							
		91.30 - 91.70 : PO Pyrrhotite, Net Net Textured, 20%							
		15-20%. net to stringer							
		59.20 - 61.00							
		68.00 - 69.00							
		70.10 - 70.90 : PO Pyrrhotite, DIS Disseminated, 3%							
		90.00 - 91.30 : PO Pyrrhotite, TR Trace, 1%							
		91.70 - 93.00							
		Structure							
		59.50 - 59.50 : FOL Foliated, 60 Deg to CA							
		60.90 - 60.90 : FLT Fault, 50 Deg to CA							
		62.00 - 62.00 : FLT Fault, 45 Deg to CA							
		1.0cm wide fault gauge							
		72.00 - 72.00 : FOL Foliated, 45 Deg to CA							
		75.80 - 75.80 : FOL Foliated, 50 Deg to CA							
		90.00 - 90.00 : FOL Foliated, 40 Deg to CA							
		94.00 - 94.00 : FOL Foliated, 45 Deg to CA							
		97.00 - 97.00 : FOL Foliated, 55 Deg to CA							
		101.00 - 101.00 : FOL Foliated, 45 Deg to CA							
		MINOR INTERVALS:							
		Minor Interval:							
		63 - 64.6 MD, Mafic Dike							
		Light to dark green, fine grained, strongly sheared 60 DTCA, non mineralized.							

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From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		MINOR INTERVALS: Minor Interval: 70.1 - 70.9 MD, Mafic Dike Dark grey, foliated 25 DTCA, mineralized with 2-3% PO diss.							
105.60	105.61	EOH, End of Hole							

Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
PG07694	53.00	54.00	0.1200	0.0170	0.0130
PG07695	54.00	55.00	0.2170	0.0560	0.0150
PG07696	55.00	56.00	0.2120	0.0840	0.0160
PG07697	56.00	57.00	0.2280	0.1090	0.0160
PG07698	57.00	58.00	0.2540	0.1900	0.0150
PG07701	58.00	58.90	0.0790	0.0720	0.0090
PG07702	58.90	59.20	0.8870	0.2700	0.0370
PG07703	59.20	60.00	0.0270	0.0270	0.0050
PG07704	60.00	61.00	0.0200	0.0080	0.0060
PG07705	89.00	89.50	0.0150	0.0110	0.0060
PG07706	89.50	90.00	0.0270	0.0100	0.0040
PG07707	90.00	91.30	0.0240	0.0200	0.0040
PG07708	91.30	91.70	0.0680	0.0470	0.0140
PG07709	91.70	92.20	0.0390	0.0060	0.0040
PG07710	92.20	93.00	0.0140	0.0050	0.0050