

DETAILED LOG

Hole Number: ES07-68

Units: Metric

Project Name: Norway - Espedalen	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -50.90
Project Number: 201	North: 6805760.65	North: 61.38	Collar Az: 231.00
Location: Andreasburg	East: 535220.78	East: 9.66	Length: 80.41 (m)
	Elev: 1022.22	Elev: 1022.22	Start Depth: 0.00 (m)
Date Started: Jun 14, 2007	Collar Survey: Y	Plugged: N	Contractor: Geo Drilling A/S
Date Completed: Jun 18, 2007	Multishot Survey: N	Hole Size: TT46	Core Storage: Tyrstrand
Logged By: ccnor	Pulse EM Survey: N	Casing: Left in Hole, capped	Final Depth: 80.41 (m)

Comments: Target: Hole testing 35m downdip extension of workings and mineralization observed at surface. Also testing pyroxenite/gabbro contact.

Result: Hole intersected a variably mineralized pyroxenite to 44.95m followed by gabbro. Best mineralization from 41.50 to 44.95m including SMS from 44.55 to 44.95 containing 30% Po, 5% Pn, and 3% CPY.

Sample Averages

Average Type	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
WEIGHTED	7.80	45.50	37.70	0.2171	0.1336	0.0131
WEIGHTED	40.50	45.50	5.00	0.9397	0.7310	0.0405
WEIGHTED	42.10	44.95	2.85	1.2969	1.0601	0.0539

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	1.40	O/B, Overburden casing to 1.4m							

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From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
1.40	44.95	PYXT, Pyroxenite	PG07525	5.00	6.00	1.00	0.0910	0.0210	0.0150
		Mineralization	PG07526	6.00	6.50	0.50	0.1060	0.0300	0.0160
		15.40 - 16.55 : PO Pyrrhotite, Net Net Textured, 4% tr Cpy, net texture to stringer	PG07527	6.50	7.30	0.80	0.1560	0.0520	0.0180
		11.20 - 14.30 : PO Pyrrhotite, DIS Disseminated, 1%	PG07528	7.30	7.80	0.50	0.1010	0.0160	0.0170
		8.50 - 9.70 : PO Pyrrhotite, Net Net Textured, 4%	PG07529	7.80	8.50	0.70	0.1980	0.0740	0.0190
		3-4 Po, 0.5 Cpy, semi net texture	PG07530	8.50	9.70	1.20	0.2690	0.1560	0.0210
		7.30 - 7.80 : PO Pyrrhotite, DIS Disseminated, 0.5%	PG07531	9.70	10.50	0.80	0.4440	0.1890	0.0310
		5.00 - 6.50 : PO Pyrrhotite, DIS Disseminated, 0.5% wing samples	PG07532	10.50	11.20	0.70	0.3960	0.1380	0.0290
		14.30 - 15.40 : PO Pyrrhotite, Net Net Textured, 2% semi net texture	PG07533	11.20	11.70	0.50	0.0750	0.0180	0.0150
		9.70 - 11.20 : PO Pyrrhotite, Net Net Textured, 6% 5-6 Po, 0.5 Cpy, semi net texture to weakly developed stringers	PG07534	11.70	13.00	1.30	0.0790	0.0150	0.0150
		7.80 - 8.50 : PO Pyrrhotite, Net Net Textured, 2% semi net texture	PG07535	13.00	14.30	1.30	0.1380	0.0460	0.0170
		6.50 - 7.30 : PO Pyrrhotite, Net Net Textured, 2% semi net texture	PG07536	14.30	15.40	1.10	0.2530	0.0880	0.0210
		44.00 - 44.55 : PO Pyrrhotite, Net Net Textured, 22% 15 po, 5 cpy, 1-2 pn	PG07537	15.40	16.55	1.15	0.4400	0.1920	0.0300
		42.90 - 43.50 : PO Pyrrhotite, Net Net Textured, 12% 10 po, 1 pn, 1 cpy	PG07538	16.55	17.50	0.95	0.2730	0.0960	0.0220
		42.10 - 42.55 : PO Pyrrhotite, Net Net Textured, 16% 15 po, 1 pn. net to stringer.	PG07539	17.50	18.00	0.50	0.2260	0.0850	0.0190
		40.50 - 41.50 : PO Pyrrhotite, Net Net Textured, 4% 2-3 po, 1 pn	PG07541	18.00	19.00	1.00	0.1810	0.0560	0.0180
		37.50 - 38.50 : PO Pyrrhotite, DIS Disseminated, 0.5%	PG07542	37.50	38.50	1.00	0.1190	0.0110	0.0150
		16.55 - 17.50 : PO Pyrrhotite, Net Net Textured, 3% semi net textured	PG07543	38.50	39.00	0.50	0.1990	0.0480	0.0150
		44.55 - 44.95 : PO Pyrrhotite, SM Semi-Massive, 37% 30 po, 5 pn, 3 cpy	PG07544	39.00	40.00	1.00	0.4190	0.2430	0.0230
		43.50 - 44.00 : PO Pyrrhotite, Net Net Textured, 11% 8 po, 2 cpy, 1 pn	PG07545	40.00	40.50	0.50	0.1970	0.0430	0.0150
		42.55 - 42.90 : PO Pyrrhotite, Net Net Textured, 14% 10 po, 2-3 cpy, 1 pn. net texture.	PG07546	40.50	41.00	0.50	0.6280	0.1000	0.0300
		41.50 - 42.10 : PO Pyrrhotite, Net Net Textured, 6% 3-4 po, 1-2 pn, tr cpy. net to stringer	PG07547	41.00	41.50	0.50	0.4160	0.0720	0.0210
		38.50 - 40.50 : PO Pyrrhotite, DIS Disseminated, 1% tr pn	PG07548	41.50	42.10	0.60	0.5850	0.2360	0.0270
		17.00 - 19.00 : PO Pyrrhotite, DIS Disseminated, 0.5% trace	PG07549	42.10	42.55	0.45	1.6300	0.1930	0.0670
		Structure	PG07550	42.55	42.90	0.35	1.2800	0.9470	0.0510
		27.95 - 27.95 : VN Veins, 35 Deg to CA serpentite vein	PG07551	42.90	43.50	0.60	1.0400	0.4840	0.0440
			PG07552	43.50	44.00	0.50	0.8120	1.0250	0.0360
			PG07553	44.00	44.55	0.55	0.7430	2.2800	0.0340
			PG07554	44.55	44.95	0.40	2.6900	1.3650	0.1060

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From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
44.95	80.40	GAB, Gabbro (Leucogabbro) Speckled white to light grey, fine grained, weakly to locally moderately magnetic, non mineralized with the exception of occasional trace sulphide. unit becomes sheared and altered below 49.0m and resembles mixture of gabbro and anorthosite. 49.0 to 51.8m- sharp change in texture. appears sheared/ brecciated aprox. 45-55 DTCA. 65.30 to 69.0m- pervasive shearing mixing of gabbro and fine grained UM Approx. 50-55 DTCA. 69.0 to 80.40- Onset of strong alteration (pink to red garnets/feldspars? and serpentite veinlets) minor fracture controlled mineralization. Mineralization 44.95 - 45.50 : PO Pyrrhotite, DIS Disseminated, 1% tr po, pn, cpy 45.50 - 46.50 : PO Pyrrhotite, DIS Disseminated, 0.5% tr sulphide	PG07556	44.95	45.50	0.55	0.2350	0.7380	0.0130
			PG07557	45.50	46.50	1.00	0.0740	0.3510	0.0070
80.40	80.41	EOH, End of Hole							

Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
PG07525	5.00	6.00	0.0910	0.0210	0.0150
PG07526	6.00	6.50	0.1060	0.0300	0.0160
PG07527	6.50	7.30	0.1560	0.0520	0.0180
PG07528	7.30	7.80	0.1010	0.0160	0.0170
PG07529	7.80	8.50	0.1980	0.0740	0.0190
PG07530	8.50	9.70	0.2690	0.1560	0.0210
PG07531	9.70	10.50	0.4440	0.1890	0.0310
PG07532	10.50	11.20	0.3960	0.1380	0.0290
PG07533	11.20	11.70	0.0750	0.0180	0.0150
PG07534	11.70	13.00	0.0790	0.0150	0.0150
PG07535	13.00	14.30	0.1380	0.0460	0.0170
PG07536	14.30	15.40	0.2530	0.0880	0.0210
PG07537	15.40	16.55	0.4400	0.1920	0.0300
PG07538	16.55	17.50	0.2730	0.0960	0.0220
PG07539	17.50	18.00	0.2260	0.0850	0.0190
PG07541	18.00	19.00	0.1810	0.0560	0.0180
PG07542	37.50	38.50	0.1190	0.0110	0.0150

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Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
PG07543	38.50	39.00	0.1990	0.0480	0.0150
PG07544	39.00	40.00	0.4190	0.2430	0.0230
PG07545	40.00	40.50	0.1970	0.0430	0.0150
PG07546	40.50	41.00	0.6280	0.1000	0.0300
PG07547	41.00	41.50	0.4160	0.0720	0.0210
PG07548	41.50	42.10	0.5850	0.2360	0.0270
PG07549	42.10	42.55	1.6300	0.1930	0.0670
PG07550	42.55	42.90	1.2800	0.9470	0.0510
PG07551	42.90	43.50	1.0400	0.4840	0.0440
PG07552	43.50	44.00	0.8120	1.0250	0.0360
PG07553	44.00	44.55	0.7430	2.2800	0.0340
PG07554	44.55	44.95	2.6900	1.3650	0.1060
PG07556	44.95	45.50	0.2350	0.7380	0.0130
PG07557	45.50	46.50	0.0740	0.3510	0.0070