

Hole Number: ES07-81

Units: METRIC

Project Name: Norway - Espedalen	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -51.00
Project Number: 201	North: 6806375.87	North: 61.39	Collar Az: 231.40
Location: Andreasburg	East: 534961.49	East: 9.65	Length: 115.31 (m)
	Elev: 1014.01	Elev: 1014.01	Start Depth: 0.00 (m)
Date Started: Aug 06, 2007	Collar Survey: Y	Plugged: N	Contractor: Geo Drilling A/S
Date Completed: Aug 10, 2007	Multishot Survey: N	Hole Size: TT46	Core Storage: Tyrstrand
Logged By: klnor	Pulse EM Survey: N	Casing: Left in Hole, capped	Final Depth: 115.31 (m)

Comments: Geological Target: testing rusty outcrops midway between Andreasburg SE and NW targets. No obvious geophysical expression associated with this showing. Surface sampling returned anomalous nickel values and attractive nickel tenor.

Sample Averages

Average Type	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
WEIGHTED	86.00	91.00	5.00	0.2555	0.1141	0.0170

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	1.56	CAS, Casing							

Hole Number: ES07-81

Units: METRIC

Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
1.56	31.78	<p>GAB, Gabbro</p> <p>medium grained, off-white feldspar phenocrysts in a dark grey groundmass, massive to foliated becoming more foliated down section past 22.50m, interstitial texture, occasional biotite and chlorite alteration, periodically fractured, disseminated magnetite and local pyrrhotite particularly evident between 20.45 to 21m, foliation varies between 50 to 70 deg to the LCA.</p> <p>Texture</p> <p>1.56 - 31.78 : MG Medium Grained</p> <p>Mineralization</p> <p>21.76 - 26.35 : PO Pyrrhotite, D Disseminated, 0.5%</p> <p>8.02 - 11.25 : PO Pyrrhotite, D Disseminated, 0.5%</p> <p>1.56 - 31.78 : MAG Magnetite, D Disseminated, 0.5%</p> <p>Alteration</p> <p>1.56 - 31.78 :BIO Biotite, D Disseminated, W Weak</p> <p>1.56 - 31.78 :CH Chlorite, D Disseminated, W Weak</p> <p>Structure</p> <p>2.70 - 2.90 : F Fractured, 50 Deg to CA</p> <p>5.50 - 5.61 : F Fractured, 65 Deg to CA</p> <p>MINOR INTERVALS:</p> <p>Minor Interval:</p> <p>22.3 - 24.44 MD, Mafic Dike</p> <p>dark grey, fine grained, homogeneous with some gabbroic bands at 22.90-23.02 and 23.07-23.16, broken / fractured core from 22.50 to 23.10, strongly magnitic throughout, average mag susceptibility is about 17.0, sharp upper contact at 60 deg to the LCA, conspicuous lower contact at 40 deg to the LCA.</p> <p>Texture</p> <p>22.30 - 24.44 : FG Fine Grained</p> <p>Mineralization</p> <p>24.30 - 24.44 : PO Pyrrhotite, BB Blebby, 0.25%</p> <p>Structure</p> <p>22.30 - 22.44 : F Fractured, 40 Deg to CA</p> <p>23.30 - 24.44 : F Fractured, 52 Deg to CA</p> <p>Minor Interval:</p> <p>27.5 - 28.27 MD, Mafic Dike</p> <p>similar to unit above from 22.30 to 24.44m, sharp upper contact at 68 deg to the LCA, abrupt lower contact at 87 deg to the LCA., narrow smear of Po at the lower contact, lower magnetic susceptibility than unit above from 22.30 - 24.44m.</p>							

DETAILED LOG

Hole Number: ES07-81

Units: METRIC

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		MINOR INTERVALS: Minor Interval: 29.35 - 29.53 MD, Mafic Dike narrow seam similar to unit observed above, broken upper contact at 45 deg. to the LCA, lower contact at 50 deg to the LCA, patchy Po blebs throughout Mineralization 29.35 - 29.53 : PO Pyrrhotite, BB Blebby, 1%							

DETAILED LOG

Hole Number: ES07-81

Units: METRIC

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
31.78	93.20	UM, Ultramafic	PG07777	82.50	83.00	0.50	0.1120	0.0270	0.0140
		very darl grey, fine to medium grained with pyroxene pseudomorphs up to 1.5cm in size, locally intensely fractured, strongly magnetic, mineralized past 82m,.	PG07778	83.00	83.50	0.50	0.1460	0.0460	0.0140
			PG07779	83.50	84.00	0.50	0.1110	0.0260	0.0140
		mineralized zone observed from 82.82 to 92.60m, some intervening sections contain trace sulphides, locally up to 5% Po with subordinate Cu and +/- Ni	PG07781	84.00	85.00	1.00	0.1280	0.0160	0.0140
			PG07782	85.00	85.50	0.50	0.1190	0.0190	0.0150
		Mineralization	PG07783	85.50	86.00	0.50	0.1420	0.0390	0.0140
		91.50 - 91.68 : PO Pyrrhotite, STR Stringers, 5%	PG07784	86.00	86.60	0.60	0.3590	0.0640	0.0220
		91.18 - 91.50 : PO Pyrrhotite, DIS Disseminated, 1%	PG07785	86.60	87.25	0.65	0.3350	0.1310	0.0210
		88.60 - 90.50 : CP Chalcopyrite, TR Trace, 0.15%	PG07787	87.25	87.85	0.60	0.2500	0.2470	0.0160
		88.60 - 89.90 : Cpy Chalcopyrite, TR Trace, 0.15%	PG07788	87.85	88.20	0.35	0.4300	0.2070	0.0230
		88.60 - 89.90 : PO Pyrrhotite, DIS Disseminated, 3%	PG07789	88.20	89.00	0.80	0.1260	0.0610	0.0100
		88.00 - 88.15 : Cpy Chalcopyrite, TR Trace, 0.5%	PG07790	89.00	89.50	0.50	0.1450	0.0690	0.0150
		92.42 - 92.60 : PO Pyrrhotite, DIS Disseminated, 1%	PG07791	89.50	90.00	0.50	0.2300	0.1010	0.0170
		92.60 - 93.20 : PO Pyrrhotite, TR Trace, 0.2%	PG07792	90.00	90.50	0.50	0.2930	0.0710	0.0190
		91.68 - 92.42 : PO Pyrrhotite, TR Trace, 0.2%	PG07794	90.50	91.00	0.50	0.2180	0.1140	0.0140
		91.50 - 91.68 : PO Pyrrhotite, DIS Disseminated, 5%	PG07795	91.00	91.50	0.50	0.1350	0.0590	0.0110
		90.50 - 91.18 : PO Pyrrhotite, TR Trace, 0.25%	PG07796	91.50	92.00	0.50	0.1550	0.1100	0.0110
		88.60 - 90.50 : PO Pyrrhotite, BB Blebby, 3%	PG07797	92.00	92.70	0.70	0.1060	0.0390	0.0110
		88.60 - 89.90 : PO Pyrrhotite, BB Blebby, 3%	PG07798	92.70	93.20	0.50	0.0810	0.0380	0.0090
		88.15 - 89.60 : PO Pyrrhotite, TR Trace, 0.25%							
		88.00 - 88.15 : PO Pyrrhotite, BB Blebby, 5%							
		88.00 - 88.15 : PO Pyrrhotite, F Fracture Controlled, 5%							
		87.22 - 88.00 : PO Pyrrhotite, DIS Disseminated, 1%							
		86.60 - 87.22 : PN Pentlandite, TR Trace, 0.15%							
		86.60 - 87.22 : CP Chalcopyrite, TR Trace, 0.25%							
		86.60 - 87.22 : PO Pyrrhotite, DIS Disseminated, 5%							
		86.00 - 86.60 : CP Chalcopyrite, TR Trace, 0.25%							
		86.00 - 86.60 : PO Pyrrhotite, F Fracture Controlled, 3%							
		85.50 - 86.00 : PY Pyrite, DIS Disseminated, 1%							
		85.50 - 86.00 : PO Pyrrhotite, DIS Disseminated, 1%							
		82.82 - 85.50 : PO Pyrrhotite, TR Trace, 0.25%							
		82.82 - 83.24 : PO Pyrrhotite, DIS Disseminated, 1%							
		Structure							
		40.30 - 40.60							
		45.80 - 47.30							
		52.45 - 53.00							
		71.00 - 71.60							

Hole Number: ES07-81

Units: METRIC

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		MINOR INTERVALS: Minor Interval: 37 - 39.4 ANOR, Anorthosite light grey, fine grained, pervasively silicified, locally fractured, presence of garnet anhdra, sharp upper and lower contacts at 74 and 82 deg. to the LCA respectively. Texture 37.00 - 39.40 : FG Fine Grained Mineralization 37.00 - 39.40 : PO Pyrrhotite, DIS Disseminated, 0.5%							
93.20	115.30	ANOR, Anorthosite light grey, massive to foliated, strongly silicified, original texture obliterated, abundant garnet throughout, minor chlorite and perhaps epidote alteration, foliated at 40 deg. to the LCA							
115.30	115.31	EOH, End of Hole							

Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
PG07777	82.50	83.00	0.1120	0.0270	0.0140
PG07778	83.00	83.50	0.1460	0.0460	0.0140
PG07779	83.50	84.00	0.1110	0.0260	0.0140
PG07781	84.00	85.00	0.1280	0.0160	0.0140
PG07782	85.00	85.50	0.1190	0.0190	0.0150
PG07783	85.50	86.00	0.1420	0.0390	0.0140
PG07784	86.00	86.60	0.3590	0.0640	0.0220
PG07785	86.60	87.25	0.3350	0.1310	0.0210
PG07787	87.25	87.85	0.2500	0.2470	0.0160
PG07788	87.85	88.20	0.4300	0.2070	0.0230
PG07789	88.20	89.00	0.1260	0.0610	0.0100
PG07790	89.00	89.50	0.1450	0.0690	0.0150
PG07791	89.50	90.00	0.2300	0.1010	0.0170
PG07792	90.00	90.50	0.2930	0.0710	0.0190
PG07794	90.50	91.00	0.2180	0.1140	0.0140
PG07795	91.00	91.50	0.1350	0.0590	0.0110
PG07796	91.50	92.00	0.1550	0.1100	0.0110
PG07797	92.00	92.70	0.1060	0.0390	0.0110

Hole Number: ES07-81

Units: METRIC

Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type ASSAY PG07798	92.70	93.20	0.0810	0.0380	0.0090