

Hole Number: ES07-90

Units: METRIC

Project Name: Norway - Espedalen	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -70.00
Project Number: 201	North: 6808389.71	North: 61.41	Collar Az: 234.70
Location: Storgruva	East: 532175.66	East: 9.60	Length: 137.11 (m)
	Elev: 1238.15	Elev: 1238.15	Start Depth: 0.00 (m)
Date Started: Sep 04, 2007	Collar Survey: Y	Plugged: N	Contractor: Geo Drilling A/S
Date Completed: Sep 06, 2007	Multishot Survey: N	Hole Size: TT46	Core Storage: Tyrstrand
Logged By: KLnor	Pulse EM Survey: N	Casing: Left in Hole	Final Depth: 137.11 (m)

Comments: This hole is a northwest step-out from Hole ES07-89. It is the 7th hole along a tier of 25-30m step-outs that are designed to test the potential of the Storgruva deposit, down-dip of the old mineworkings.

## Sample Averages

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	1.40	CAS, Casing							
1.40	13.60	ANOR, Anorthosite light and dark grey in colour, coarse grained, mottled, allotriomorphic granular fabric, composition consists of (AN= 65) and (M=45), becomes increasingly more foliated to sheared at depth, locally fractured, nil sulphides. Texture 1.40 - 13.60 : Mtl Mottled 1.40 - 13.60 : ALLO Allotriomorphic Structure 1.40 - 2.10 2.80 - 2.85 : FOL Foliated, 60 Deg to CA 11.00 - 11.20 11.40 - 11.60 : FOL Foliated, 60 Deg to CA 13.00 - 13.60 13.00 - 13.60 : FOL Foliated, 50 Deg to CA							
13.60	15.78	GAB, Gabbro grey in colour, fine to-medium grained, minute specks of plagioclase throughout - "snowflake appearance", locally fractured, nil sulphides Alteration 14.00 - 14.30 :Oxid Oxidized, F Fracture Controlled, W Weak Structure 14.00 - 14.15 : FOL Foliated, 63 Deg to CA 14.00 - 14.30							

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
15.78	34.86	ANOR, Anorthosite grey to creamy-beige in colour, well laminated to locally sheared, competent core, nil sulphides Alteration 15.78 - 34.86 :EP Epidote, BN Banded, M Moderate 15.78 - 34.86 :CHL Chlorite, B Banded, M Moderate 15.78 - 34.86 :Ser Sericite, H Patchy, M Moderate Structure 15.78 - 20.50 20.50 - 28.00 22.50 - 22.70 : FOL Foliated, 55 Deg to CA 28.00 - 34.86 29.20 - 29.22 : FOL Foliated, 45 Deg to CA 33.80 - 33.86 : FOL Foliated, 48 Deg to CA							
34.86	47.45	GAB, Gabbro greyish-green in colour, weakly foliated to locally sheared, abundant (15-20%) subheral biotite phenocrysts up to 0.4cm throughout, this unit appears like a lamprophyre dyke, sharp lower contact at 88 deg to the LCA, minor seams of included anorthosite at 44.41 - 44.57m, 44.98 - 45.21m and 45.78 - 45.91m, fairly competent core, nil sulphides.							
47.45	53.30	ANOR, Anorthosite creamy-beige in colour with green flecks and laminations, foliated to sheared, composed of An=65, Si=20 and M=15., weak to moderate sericite, chlorite and epidote alteration of feldspars and mafic mineralogy, competent core, nil sulphides.							
53.30	60.44	GAB, Gabbro lamprophyre dyke similar to unit observed above from 34.86 to 47.45m, a narrow segment of anorthosite found between 59.72 and 60.18m, competent core, nil sulphides. MINOR INTERVALS: Minor Interval: 59.72 - 60.18 ANOR, Anorthosite							

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
60.44	137.10	ANOR, Anorthosite	PG07936	104.60	105.00	0.40	0.0025	0.0025	0.0020
		similar to units above from 1.40 - 13.60m, 15.78 to 34.86m, 47.45 - 53.30m., alternating grey, siliceous to beige-yellow and green laminated sections, locally sheared,	PG07937	105.00	105.40	0.40	0.0500	0.0480	0.0130
			PG07938	105.40	105.80	0.40	0.0150	0.0130	0.0040
			PG07939	105.80	106.72	0.92	0.0060	0.0025	0.0020
		finely laminated, grey-green coloured section observed between 105 and 108.70m containing discontinuously laminated / banded, disseminated Po and rare blebs of Cpy over tens of cm in width. Narrow sections contain 1 - 5% sulphides. Distance down-the-hole corresponds roughly to the mineralized zone intersected in ES07-89, although much weaker in intensity and width. As well, this hole is devoid of ultramafic rocks.	PG07941	106.72	107.18	0.46	0.0300	0.0340	0.0080
			PG07942	107.18	107.67	0.49	0.0300	0.0340	0.0080
			PG07943	107.67	108.30	0.63	0.0050	0.0025	0.0030
			PG07944	108.30	108.70	0.40	0.0200	0.0270	0.0060
			PG07945	108.70	109.10	0.40	0.0025	0.0025	0.0020
		Alteration							
		105.44 - 108.10 :Oxid Oxidized, FF Fracture Filling, W Weak							
		60.44 - 137.10 :EP Epidote, P Pervasive, M Moderate							
		60.44 - 137.10 :CHL Chlorite, P Pervasive, M Moderate							
		Structure							
		84.60 - 85.10 : F Fractured, 60 Deg to CA							
		107.00 - 107.83							
		108.71 - 135.00							
		108.71 - 135.00							
		110.10 - 110.40							
		112.30 - 113.00							
		112.34 - 112.35 : FOL Foliated, 67 Deg to CA							
		113.44 - 113.45 : FOL Foliated, 62 Deg to CA							
		114.00 - 115.20							
		116.80 - 117.10							
		117.11 - 117.12 : FOL Foliated, 60 Deg to CA							
		122.76 - 123.04							
		123.74 - 123.75 : FOL Foliated, 40 Deg to CA							
		124.90 - 124.92 : FOL Foliated, 40 Deg to CA							
		125.71 - 125.73 : FOL Foliated, 50 Deg to CA							
		MINOR INTERVALS:							
		Minor Interval:							
		81.75 - 81.81 SULF, Sulfide							
		6cm wide band of finely disseminated Po trending 54 deg to the LCA.							
		Minor Interval:							
		105 - 105.42 SULF, Sulfide							
		very narrow cm-scale intervals of finely laminated Po at 090 deg to the LCA.							
		approx. 1-5% locally.							
		Minor Interval:							
		106.76 - 107.78 SULF, Sulfide							
		similar to sulphide seams intersected above, laminated Po over 3 to 7cm wide, rare flecks of Cpy, about 3-5% sulphides locally.							

# DETAILED LOG

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From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		MINOR INTERVALS: Minor Interval: 108.3 - 108.7 SULF, Sulfide same as above, banded Po and isolated blebby Cpy over a few cm., discontinuous mineralization in the order of 2% locally.							
137.10	137.11	EOH, End of Hole							

## Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
PG07936	104.60	105.00	0.0025	0.0025	0.0020
PG07937	105.00	105.40	0.0500	0.0480	0.0130
PG07938	105.40	105.80	0.0150	0.0130	0.0040
PG07939	105.80	106.72	0.0060	0.0025	0.0020
PG07941	106.72	107.18	0.0300	0.0340	0.0080
PG07942	107.18	107.67	0.0300	0.0340	0.0080
PG07943	107.67	108.30	0.0050	0.0025	0.0030
PG07944	108.30	108.70	0.0200	0.0270	0.0060
PG07945	108.70	109.10	0.0025	0.0025	0.0020