

Hole Number: ES08-106

Units: METRIC

Project Name: Norway - Espedalen	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -50.00
Project Number: 201	North: 6804182.00	North: 61.37	Collar Az: 230.00
Location: Trona	East: 536542.00	East: 9.68	Length: 309.41 (m)
	Elev: 855.00	Elev: 855.00	Start Depth: 0.00 (m)
Date Started: Jan 17, 2008	Collar Survey: N	Plugged: N	Contractor: Drillcon Core AB
Date Completed: Jan 17, 2008	Multishot Survey: N	Hole Size: TT46	Core Storage: Tyrstrand
Logged By: rdnor	Pulse EM Survey: N	Casing: Left in Hole	Final Depth: 309.41 (m)

Comments: Target: Western contact of ultramafics and western limit of magnetic anomaly

Results: 160-175m showed 1-2% Po with Pn, 254.25-254.85 showed ~3% Po with diss. Cpy.

Sample Averages

Average Type	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
WEIGHTED	159.14	174.15	15.01	0.2354	0.0913	0.0212

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	3.27	O/B, Overburden Over Burden							
3.27	170.40	UM, Ultramafic Ultra mafic Dark black fg homogenous pyroxenite. Competent. Barren of sulphides. Few carbonate veins and serpentine along fractured surfaces. Mineralization 160.00 - 170.40 : PN Pentlandite, DIS Disseminated, 1% 160.00 - 170.40 : PO Pyrrhotite, DIS Disseminated, 1%	PG08423	159.14	160.10	0.96	0.2470	0.1440	0.0210
			PG08424	160.10	161.10	1.00	0.2370	0.0780	0.0200
			PG08425	161.10	162.10	1.00	0.2310	0.0740	0.0200
			PG08426	162.10	163.10	1.00	0.2020	0.0700	0.0200
			PG08427	163.10	164.10	1.00	0.2140	0.0710	0.0200
			PG08428	164.10	165.10	1.00	0.2200	0.0840	0.0200
			PG08429	165.10	166.10	1.00	0.3240	0.1160	0.0280
			PG08430	166.10	167.10	1.00	0.2970	0.0960	0.0250
			PG08431	167.10	168.00	0.90	0.2570	0.0930	0.0230
			PG08432	168.00	169.05	1.05	0.3210	0.1030	0.0280
			PG08433	169.05	170.05	1.00	0.2800	0.1010	0.0240
			PG08434	170.05	171.10	1.05	0.1660	0.0630	0.0150

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
170.40	181.00	GNOR, Gabbro Norite Gabbro-Norite Whitish-Grey to Black, fg. Heterogenous. Texture ranges from slightly banded btw. plag and px to highly distorted fabric with no preferred alignment. Segments show plag with px interstitial. Serpentinite alteration of fractured surfaces. Unit appears heavily sheared and reworked due to irregular fabric. Plag content up to 30-40% in localities. Epidote alteration of plag. Mottled texture in places. Mineralization 170.40 - 175.00 : PN Pentlandite, DIS Disseminated, 0.5% 170.40 - 175.00 : PO Pyrrhotite, DIS Disseminated, 0.5% Alteration 170.40 - 181.00 :EP Epidote, H Patchy, M Moderate green mineral assoc. w/ plag. 170.40 - 181.00 :SERP Serpentine, F Fracture Controlled, M Moderate	PG08435	171.10	172.10	1.00	0.1550	0.0980	0.0150
			PG08436	172.10	173.15	1.05	0.1670	0.1050	0.0160
			PG08437	173.15	174.15	1.00	0.2180	0.0760	0.0240
			PG08438	174.15	175.20	1.05	0.0630	0.0060	0.0150
			PG08439	175.20	176.20	1.00	0.0470	0.0240	0.0080
181.00	191.60	UM, Ultramafic Ultramafic Black fg pyroxenite with carbonate veins along fractured surfaces along with serpentinite. Grading upper and lower contacts.							
191.60	200.20	MD, Mafic Dyke Mafic Dyke Greenish-grey and white fg gabbroic dyke. Moderately sharp upper and lower contacts. Heterogenous with no dominant fabric. 1-2mm thin plag veins throughout.							
200.20	309.40	GNOR, Gabbro Norite Gabbro Norite Grey-ish green to white fg gabbro-norite. Heterogenous with varying textures from slightly banded with aligned veins/veinlets of plag to mottled texture of plag phenos with interstitial px. Plag veins on decimetre scale. Unit appears to have been subjected to shearing, reworking. @254.30-254.35 contains 2% veinlets of Po with 0.50% Cpy disseminated within. 254.80-254.85 contains 4% veins of Po with 1% Cpy. Several decametre scale mafic dykes which are fg, green and poorly foliated. @276.60-276.90, 5% Py filled vug. Mineralization 254.30 - 254.35 : Cpy Chalcopyrite, DIS Disseminated, 0.5% 254.30 - 254.35 : PO Pyrrhotite, VN Veins, 2% 254.80 - 254.85 : Cpy Chalcopyrite, VN Veins, 1% 254.80 - 254.85 : PO Pyrrhotite, VN Veins, 4% 276.60 - 276.90 appears vuggy	PG08441	253.25	254.25	1.00	0.0110	0.0060	0.0030
			PG08442	254.25	254.55	0.30	0.0160	0.0025	0.0050
			PG08443	254.55	254.85	0.30	0.0380	0.0450	0.0120
			PG08444	254.85	255.85	1.00	0.0130	0.0120	0.0040
			PG08445	275.60	276.60	1.00	0.0020	0.0025	0.0010
			PG08446	276.60	276.90	0.30	0.0010	0.0025	0.0005
			PG08447	276.90	277.90	1.00	0.0030	0.0170	0.0010
			PG08448	277.90	278.90	1.00	0.0150	0.0130	0.0040
309.40	309.41	EOH, End of Hole							

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Samples

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Sample Type	ASSAY				
PG08423	159.14	160.10	0.2470	0.1440	0.0210
PG08424	160.10	161.10	0.2370	0.0780	0.0200
PG08425	161.10	162.10	0.2310	0.0740	0.0200
PG08426	162.10	163.10	0.2020	0.0700	0.0200
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PG08428	164.10	165.10	0.2200	0.0840	0.0200
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PG08438	174.15	175.20	0.0630	0.0060	0.0150
PG08439	175.20	176.20	0.0470	0.0240	0.0080
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PG08447	276.90	277.90	0.0030	0.0170	0.0010
PG08448	277.90	278.90	0.0150	0.0130	0.0040