

Hole Number: ES07-130

Units: METRIC

Project Name:	Norway - Espedalen	Primary Coordinates	Grid: UTM84-32N	Destination Coordinates	Grid: UTM:	Collar Dip:	-80.00
Project Number:	201	North:	6801245.00	North:	61.34	Collar Az:	230.00
Location:	Trona	East:	535684.00	East:	9.67	Length:	349.21 (m)
		Elev:	951.00	Elev:	951.00	Start Depth:	0.00 (m)
Date Started:	Jan 18, 2008	Collar Survey:	N	Plugged:	N	Contractor:	Arctic Drilling A/S
Date Completed:	Jan 18, 2008	Multishot Survey:	N	Hole Size:	NQ	Core Storage:	Tyrstrand
Logged By:	rdnor	Pulse EM Survey:	N	Casing:	Left in Hole	Final Depth:	349.21 (m)

Comments: Target: Down Dip extension of ES05-25

Result: No mineralization, basement unit is shallow dipping mafic volcanic with bands of ultramafic.

## Sample Averages

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	18.90	O/B, Overburden Overburden							
18.90	27.60	MD, Mafic Dike Mafic Dyke greenish white fg mafic dyke. Homogenous with sharp lower contact. Thin <1mm veins of plag throughout.							
27.60	47.50	ANOR, Anorthosite Anorthosite White/pale grey anorthosite with pale green epidote phase. Local brecciation filled with quartz. Moderately developed fabric is nearly perp. to CA.							
47.50	56.00	MD, Mafic Dike Mafic Dyke Grey/Green to white fg mafic dyke with sharp upper and lower contacts. Weakly developed fabric perp. to CA, defined by very thin <1mm elongate plag grains.							
56.00	64.20	ANOR, Anorthosite Anorthosite Pale grey to white anortho. Intruded by decimetre scale mafic dykes which are equal to larger scale dykes. Weakly banded perp. to CA.							
64.20	81.10	MD, Mafic Dike Mafic Dyke Grey/Green to pale green fg mafic dyke. Fabric defined by elongate plag perp. to CA.							
81.10	122.30	ANOR, Anorthosite Anorthosite Grey/Green to white impure anorthosite. Varying grain size from med. to coarse. Local brecciation and mixing of mafic dyke and anortho. Weak fabric ~perp. to CA. Fuchsite and hematite alterations present in small quantities on mm scale. Strong mixing of units from 100-117 m with ultramafic intrusions into Anortho.							

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122.30	129.60	MD, Mafic Dike Mafic Dyke Green fg mafic dyke with sharp upper and grading lower contact. Weak fabric ~perp. to CA.							
129.60	137.17	ANOR, Anorthosite Anortho white cg. impure anortho cut by thin decimetre scale mafic/ultramafic dykes.							
137.17	140.30	MD, Mafic Dike Mafic Dyke Green fg mafic dyke with sharp upper and lower contact. Weak fabric ~perp. to CA. Very mafic.							
140.30	143.20	ANOR, Anorthosite Anorthosite Grey/Green to white impure anorthosite. Varying grain size from med. to coarse. Local brecciation and mixing of mafic dyke and anortho. Weak fabric ~perp. to CA. Fuchsite and hematite alterations present in small quantities on mm scale.							
143.20	145.74	MD, Mafic Dike Mafic Dyke Grey/Dark Green fg. mafic dyke. Homogenous. Sharp contacts.							
145.74	217.00	ANOR, Anorthosite Anorthosite Grey/Green to white/grey. Coarse grain heterogenous impure anortho. cut by mafic and ultramafic dykes on the decimetre scale. Plag is pale grey. This unit is darker and more mottled/intruded than any above anorthos. cutting dykes rarely show sharp contacts. Decimetres of qtz filled brecciated core at ~198m.							
217.00	224.00	MD, Mafic Dike Mafic Dyke Grey/Green to white fg mafic dyke with sharp upper and lower contacts. Weakly developed fabric perp. to CA, defined by very thin <1mm plag veinlets and elongate grains. Very similar to above mafic dykes.							
224.00	250.90	ANOR, Anorthosite Impure Anorthosite Grey/Green to white impure anorthosite. Varying grain size from med. to coarse. Local brecciation and mixing of mafic dyke and anortho. Weak fabric ~perp. to CA. Fuchsite and hematite alterations present in small quantities on mm scale. Brecciation with qtz filling at bottom of unit.							
250.90	260.90	MD, Mafic Dike Mafic Dyke Grey/Green fg. mafic dyke with sharp contacts. Paler towards chill margin. Weak fabric defined by plag. Homogenous competent.							
260.90	273.20	ANOR, Anorthosite Anorthosite Grey/Green to white impure anorthosite. Varying grain size from med. to coarse. Local brecciation and mixing of mafic dyke and anortho. Weak fabric ~perp. to CA. Fuchsite and hematite alterations present in small quantities on mm scale.							

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273.20	349.20	MV, Mafic Volcanic Mafic Volcanic. Basement unit is mafic volcanic. Greyish/green to black fg. competent. Phases of ultramafic mixing with mafic with gradual contacts. Weakly banded fabric -perp. to CA. Barren of sulphides. Not as homogenous as mafic dykes and contains more of ultramafics. Very low amount of plag. Few cm scale quartz filled veins.							
349.20	349.21	EOH, End of Hole End of Hole							