

Hole Number: ES07-101

Units: METRIC

Project Name: Norway - Espedalen	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -46.00
Project Number: 201	North: 6807349.00	North: 61.40	Collar Az: 90.00
Location: Surface	East: 528666.00	East: 9.54	Length: 152.90 (m)
	Elev: 1130.00	Elev: 1130.00	Start Depth: 0.00 (m)
Date Started: Nov 04, 2007	Collar Survey: N	Plugged: N	Contractor: Drillcon Core AB
Date Completed: Nov 07, 2007	Multishot Survey: N	Hole Size: TT46	Core Storage: Tyrstrand
Logged By: rdnor	Pulse EM Survey: N	Casing: Left in Hole	Final Depth: 152.90 (m)

Comments: Initial hole targeting Megrund, collar location about 2m from historical hole MG75-09

Upper Zone of Mineralization from 23.00 to 67.89m -5% blebby sulphides.

Lower Zone of mineralization from 86.47 to 152.90m -5% blebby sulphides.

Sample Averages

Average Type	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
WEIGHTED	35.50	152.89	117.39	0.3061	0.1211	0.0125
WEIGHTED	50.50	66.50	16.00	0.4211	0.1744	0.0181
WEIGHTED	89.00	152.89	63.89	0.3557	0.1363	0.0144
WEIGHTED	98.00	148.00	50.00	0.3849	0.1421	0.0149
WEIGHTED	104.00	123.00	19.00	0.4686	0.1762	0.0184
WEIGHTED	104.00	147.00	43.00	0.3927	0.1476	0.0152

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	0.23	O/B, Overburden							

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0.23	49.30	GNOR, Gabbro Norite	PG05301	3.77	4.77	1.00	0.0520	0.0390	0.0030
		Gabbro-Norite	PG05302	4.77	5.75	0.98	0.0630	0.0430	0.0040
		Blackish/brown to white. 50 to 10% plag grains ranging from coarse to fine.	PG05303	5.75	6.75	1.00	0.1440	0.0630	0.0070
		Speckled to mottled texture with varying felsic %. 2-3% diss. Sulphs.	PG05304	6.75	7.75	1.00	0.1180	0.0930	0.0060
		throughout Po Cpy and Pn all visible. Core is heavily fractured near surface.	PG05305	7.75	8.75	1.00	0.0420	0.0180	0.0030
		Heterogenous. Rusty oxidization on fractured surfaces. More ultramafic towards	PG05306	8.75	9.70	0.95	0.1180	0.0480	0.0070
		bottom of unit with <5% feldspar in places.	PG05307	9.70	10.70	1.00	0.1820	0.1020	0.0090
		Mineralization	PG05308	10.70	11.48	0.78	0.1250	0.0740	0.0060
		3.77 - 11.48 : PO Pyrrhotite, DIS Disseminated, 1%	PG05309	19.22	20.19	0.97	0.0650	0.0380	0.0040
		19.22 - 49.30 : PN Pentlandite, DIS Disseminated, 33%	PG05310	20.19	21.19	1.00	0.1170	0.0620	0.0070
		33% of 3% Sulphides	PG05311	21.19	22.20	1.01	0.1280	0.0580	0.0070
		3.77 - 11.48 : Cpy Chalcopyrite, DIS Disseminated, 1%	PG05312	22.20	23.26	1.06	0.0730	0.0420	0.0040
		19.22 - 49.30 : Cpy Chalcopyrite, DIS Disseminated, 33%	PG05313	23.26	24.31	1.05	0.0640	0.0360	0.0040
		33% of 3% Sulphides	PG05314	24.31	25.31	1.00	0.0510	0.0390	0.0040
		19.22 - 49.30 : PO Pyrrhotite, DIS Disseminated, 33%	PG05315	25.31	26.32	1.01	0.0530	0.0270	0.0040
		33% of 3% Sulphides	PG05316	26.32	27.40	1.08	0.1290	0.0840	0.0090
			PG05317	27.40	28.47	1.07	0.1090	0.0640	0.0070
			PG05318	28.47	29.54	1.07	0.0440	0.0770	0.0030
			PG05319	29.54	30.52	0.98	0.2820	0.0940	0.0100
			PG05321	30.52	31.50	0.98	0.0780	0.0640	0.0040
			PG05322	31.50	32.50	1.00	0.3220	0.1140	0.0120
			PG05323	32.50	33.50	1.00	0.0370	0.0230	0.0020
			PG05324	33.50	34.50	1.00	0.0410	0.0450	0.0020
			PG05325	34.50	35.50	1.00	0.0980	0.1030	0.0040
			PG05326	35.50	36.50	1.00	0.2300	0.2470	0.0080
			PG05327	36.50	37.50	1.00	0.3420	0.1620	0.0110
			PG05328	37.50	38.50	1.00	0.4650	0.1660	0.0160
			PG05329	38.50	39.50	1.00	0.4830	0.1160	0.0190
			PG05330	39.50	40.50	1.00	0.1810	0.0590	0.0080
			PG05331	40.50	41.50	1.00	0.1290	0.0670	0.0070
			PG05332	41.50	42.50	1.00	0.3160	0.0890	0.0130
			PG05333	42.50	43.50	1.00	0.3770	0.1330	0.0140
			PG05334	43.50	44.50	1.00	0.2660	0.1520	0.0110
			PG05335	44.50	45.50	1.00	0.3600	0.1310	0.0140
			PG05336	45.50	46.50	1.00	0.4520	0.1630	0.0150
			PG05337	46.50	47.50	1.00	0.4870	0.1590	0.0160
			PG05338	47.50	48.50	1.00	0.4460	0.1610	0.0150
			PG05339	48.50	49.50	1.00	0.3680	0.1400	0.0140

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
49.30	67.89	UM, Ultramafic Ultramafic very dark black pyroxenite with talc and serpentization. 5% flecks or blebs of sulphides, generally Pn or Po, sometimes Cpy. Sharp lower contact. Competent and homogenous. Sulphides stop at boundary. Mineralization 49.30 - 67.89 : Cpy Chalcopyrite, BL Blebby, 5% 49.30 - 67.89 : PO Pyrrhotite, BL Blebby, 50% 49.30 - 67.89 : PN Pentlandite, BL Blebby, 45%	PG05341	49.50	50.50	1.00	0.3680	0.1120	0.0160
			PG05342	50.50	51.50	1.00	0.4060	0.2030	0.0170
			PG05343	51.50	52.50	1.00	0.4030	0.2990	0.0170
			PG05344	52.50	53.50	1.00	0.3420	0.1200	0.0160
			PG05345	53.50	54.50	1.00	0.4630	0.1170	0.0210
			PG05346	54.50	55.50	1.00	0.4890	0.1390	0.0210
			PG05347	55.50	56.50	1.00	0.5030	0.1460	0.0220
			PG05348	56.50	57.50	1.00	0.4910	0.1410	0.0210
			PG05349	57.50	58.50	1.00	0.3710	0.1670	0.0150
			PG05350	58.50	59.50	1.00	0.4340	0.1810	0.0180
			PG05351	59.50	60.50	1.00	0.4520	0.1670	0.0180
			PG05352	60.50	61.50	1.00	0.4840	0.1790	0.0200
			PG05353	61.50	62.50	1.00	0.3090	0.2550	0.0130
			PG05354	62.50	63.50	1.00	0.3870	0.2650	0.0180
			PG05355	63.50	64.50	1.00	0.2710	0.1410	0.0120
			PG05356	64.50	65.50	1.00	0.4800	0.1690	0.0210
			PG05357	65.50	66.50	1.00	0.4530	0.1010	0.0190
			PG05358	66.50	67.50	1.00	0.3150	0.2600	0.0140
			PG05359	67.50	67.89	0.39	0.2890	0.2660	0.0150
67.89	81.54	GAB, Gabbro Gabbro White to dark/grey with 'snowflake' texture. Fairly homogenous with mottled texture, no sulphides.							
81.54	86.47	UM, Ultramafic Pyroxenite dark black, homogenous, fg and massive compared to gabbro. Fairly competent.	PG05361	85.00	86.00	1.00	0.1390	0.0570	0.0090
			PG05362	86.00	87.00	1.00	0.1140	0.0280	0.0120

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
86.47	110.27	GAB, Gabbro	PG05363	87.00	88.00	1.00	0.2510	0.1090	0.0120
		Melano-gabbro. Very similar to ultramafics except for varying plag content, plag is med to coarse grain. Plag is interstitial. Hosting 3-5% blebby sulphides.	PG05364	88.00	89.00	1.00	0.2720	0.1050	0.0120
		Mineralization	PG05365	89.00	90.00	1.00	0.3190	0.1110	0.0130
		86.47 - 110.27 : PO Pyrrhotite, BL Blebby, 33%	PG05366	90.00	91.00	1.00	0.1960	0.1760	0.0090
		86.47 - 110.27 : PN Pentlandite, BL Blebby, 66%	PG05367	91.00	92.00	1.00	0.3520	0.1030	0.0130
			PG05368	92.00	93.00	1.00	0.2990	0.1160	0.0120
			PG05369	93.00	94.00	1.00	0.1750	0.0900	0.0080
			PG05370	94.00	95.00	1.00	0.1200	0.0840	0.0050
			PG05371	95.00	96.00	1.00	0.1810	0.1550	0.0080
			PG05372	96.00	97.00	1.00	0.3100	0.2180	0.0130
			PG05373	97.00	98.00	1.00	0.2500	0.1540	0.0100
			PG05374	98.00	99.00	1.00	0.4300	0.1410	0.0160
			PG05375	99.00	100.00	1.00	0.4430	0.1240	0.0160
			PG05376	100.00	101.00	1.00	0.3780	0.1280	0.0130
			PG05377	101.00	102.00	1.00	0.3040	0.1050	0.0110
			PG05378	102.00	103.00	1.00	0.1040	0.0460	0.0060
			PG05379	103.00	104.00	1.00	0.3330	0.1090	0.0120
			PG05381	104.00	105.00	1.00	0.4230	0.1250	0.0150
			PG05382	105.00	106.00	1.00	0.4390	0.2170	0.0150
			PG05383	106.00	107.00	1.00	0.4800	0.1980	0.0170
			PG05384	107.00	108.00	1.00	0.4160	0.1860	0.0160
			PG05385	108.00	109.00	1.00	0.4130	0.2000	0.0160
			PG05386	109.00	110.00	1.00	0.5190	0.2680	0.0200
			PG05387	110.00	111.00	1.00	0.5420	0.3220	0.0200

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From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
110.27	152.89	UM, Ultramafic Pyroxenite Dark black with talcose alteration. 3-5% blebby sulphides continue. Homogenous and locally fractured. Very low plag. content. Mineralization 110.27 - 139.73 : PN Pentlandite, BL Blebby, 60% 110.27 - 139.73 : Cpy Chalcopyrite, BL Blebby, 10% 110.27 - 139.73 : PO Pyrrhotite, BL Blebby, 30%	PG05388	111.00	112.00	1.00	0.4660	0.2010	0.0160
			PG05389	112.00	113.00	1.00	0.4320	0.1390	0.0170
			PG05390	113.00	114.00	1.00	0.4530	0.0810	0.0190
			PG05391	114.00	115.00	1.00	0.5180	0.1210	0.0220
			PG05392	115.00	116.00	1.00	0.4340	0.2180	0.0180
			PG05393	116.00	117.00	1.00	0.4550	0.1850	0.0190
			PG05394	117.00	118.00	1.00	0.4980	0.1610	0.0210
			PG05395	118.00	119.00	1.00	0.5490	0.3000	0.0220
			PG05396	119.00	120.00	1.00	0.5130	0.1950	0.0210
			PG05397	120.00	121.00	1.00	0.4420	0.0960	0.0190
			PG05398	121.00	122.00	1.00	0.4710	0.0530	0.0190
			PG05399	122.00	123.00	1.00	0.4400	0.0820	0.0180
			PG05401	123.00	124.00	1.00	0.3280	0.1890	0.0130
			PG05402	124.00	125.00	1.00	0.3950	0.1060	0.0150
			PG05403	125.00	126.00	1.00	0.3090	0.0910	0.0120
			PG05404	126.00	127.00	1.00	0.3430	0.1680	0.0120
			PG05405	127.00	128.00	1.00	0.3170	0.1190	0.0120
			PG05406	128.00	129.00	1.00	0.2310	0.0950	0.0100
			PG05407	129.00	130.00	1.00	0.4020	0.2210	0.0150
			PG05408	130.00	131.00	1.00	0.2060	0.1460	0.0100
			PG05409	131.00	132.00	1.00	0.1860	0.0850	0.0080
			PG05410	132.00	133.00	1.00	0.4980	0.1240	0.0180
			PG05411	133.00	134.00	1.00	0.5740	0.2380	0.0210
			PG05412	134.00	135.00	1.00	0.1110	0.1880	0.0060
			PG05413	135.00	136.00	1.00	0.2590	0.0830	0.0120
			PG05414	136.00	137.00	1.00	0.2410	0.0650	0.0100
			PG05415	137.00	138.00	1.00	0.2600	0.0810	0.0130
			PG05416	138.00	139.00	1.00	0.1320	0.0460	0.0080
			PG05417	139.00	140.00	1.00	0.1670	0.0640	0.0080
			PG05418	140.00	141.00	1.00	0.1700	0.0790	0.0080
			PG05419	141.00	142.00	1.00	0.2390	0.1080	0.0130
			PG05420	142.00	143.00	1.00	1.0880	0.0730	0.0110
			PG05421	143.00	144.00	1.00	0.2300	0.1020	0.0120
			PG05422	144.00	145.00	1.00	0.4700	0.1680	0.0200
			PG05423	145.00	146.00	1.00	0.3560	0.1570	0.0150
			PG05424	146.00	147.00	1.00	0.4730	0.2030	0.0200
			PG05425	147.00	148.00	1.00	0.3630	0.1070	0.0190
			PG05426	148.00	149.00	1.00	0.2880	0.1260	0.0180
			PG05427	149.00	150.00	1.00	0.2220	0.0510	0.0160
			PG05428	150.00	151.00	1.00	0.2010	0.0710	0.0160
			PG05429	151.00	152.00	1.00	0.2740	0.0550	0.0170
			PG05430	152.00	152.89	0.89	0.3300	0.1060	0.0190
152.89	152.90	EOH, End of Hole							

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Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
PG05301	3.77	4.77	0.0520	0.0390	0.0030
PG05302	4.77	5.75	0.0630	0.0430	0.0040
PG05303	5.75	6.75	0.1440	0.0630	0.0070
PG05304	6.75	7.75	0.1180	0.0930	0.0060
PG05305	7.75	8.75	0.0420	0.0180	0.0030
PG05306	8.75	9.70	0.1180	0.0480	0.0070
PG05307	9.70	10.70	0.1820	0.1020	0.0090
PG05308	10.70	11.48	0.1250	0.0740	0.0060
PG05309	19.22	20.19	0.0650	0.0380	0.0040
PG05310	20.19	21.19	0.1170	0.0620	0.0070
PG05311	21.19	22.20	0.1280	0.0580	0.0070
PG05312	22.20	23.26	0.0730	0.0420	0.0040
PG05313	23.26	24.31	0.0640	0.0360	0.0040
PG05314	24.31	25.31	0.0510	0.0390	0.0040
PG05315	25.31	26.32	0.0530	0.0270	0.0040
PG05316	26.32	27.40	0.1290	0.0840	0.0090
PG05317	27.40	28.47	0.1090	0.0640	0.0070
PG05318	28.47	29.54	0.0440	0.0770	0.0030
PG05319	29.54	30.52	0.2820	0.0940	0.0100
PG05321	30.52	31.50	0.0780	0.0640	0.0040
PG05322	31.50	32.50	0.3220	0.1140	0.0120
PG05323	32.50	33.50	0.0370	0.0230	0.0020
PG05324	33.50	34.50	0.0410	0.0450	0.0020
PG05325	34.50	35.50	0.0980	0.1030	0.0040
PG05326	35.50	36.50	0.2300	0.2470	0.0080
PG05327	36.50	37.50	0.3420	0.1620	0.0110
PG05328	37.50	38.50	0.4650	0.1660	0.0160
PG05329	38.50	39.50	0.4830	0.1160	0.0190
PG05330	39.50	40.50	0.1810	0.0590	0.0080
PG05331	40.50	41.50	0.1290	0.0670	0.0070
PG05332	41.50	42.50	0.3160	0.0890	0.0130
PG05333	42.50	43.50	0.3770	0.1330	0.0140
PG05334	43.50	44.50	0.2660	0.1520	0.0110
PG05335	44.50	45.50	0.3600	0.1310	0.0140
PG05336	45.50	46.50	0.4520	0.1630	0.0150
PG05337	46.50	47.50	0.4870	0.1590	0.0160
PG05338	47.50	48.50	0.4460	0.1610	0.0150

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Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
PG05339	48.50	49.50	0.3680	0.1400	0.0140
PG05341	49.50	50.50	0.3680	0.1120	0.0160
PG05342	50.50	51.50	0.4060	0.2030	0.0170
PG05343	51.50	52.50	0.4030	0.2990	0.0170
PG05344	52.50	53.50	0.3420	0.1200	0.0160
PG05345	53.50	54.50	0.4630	0.1170	0.0210
PG05346	54.50	55.50	0.4890	0.1390	0.0210
PG05347	55.50	56.50	0.5030	0.1460	0.0220
PG05348	56.50	57.50	0.4910	0.1410	0.0210
PG05349	57.50	58.50	0.3710	0.1670	0.0150
PG05350	58.50	59.50	0.4340	0.1810	0.0180
PG05351	59.50	60.50	0.4520	0.1670	0.0180
PG05352	60.50	61.50	0.4840	0.1790	0.0200
PG05353	61.50	62.50	0.3090	0.2550	0.0130
PG05354	62.50	63.50	0.3870	0.2650	0.0180
PG05355	63.50	64.50	0.2710	0.1410	0.0120
PG05356	64.50	65.50	0.4800	0.1690	0.0210
PG05357	65.50	66.50	0.4530	0.1010	0.0190
PG05358	66.50	67.50	0.3150	0.2600	0.0140
PG05359	67.50	67.89	0.2890	0.2660	0.0150
PG05361	85.00	86.00	0.1390	0.0570	0.0090
PG05362	86.00	87.00	0.1140	0.0280	0.0120
PG05363	87.00	88.00	0.2510	0.1090	0.0120
PG05364	88.00	89.00	0.2720	0.1050	0.0120
PG05365	89.00	90.00	0.3190	0.1110	0.0130
PG05366	90.00	91.00	0.1960	0.1760	0.0090
PG05367	91.00	92.00	0.3520	0.1030	0.0130
PG05368	92.00	93.00	0.2990	0.1160	0.0120
PG05369	93.00	94.00	0.1750	0.0900	0.0080
PG05370	94.00	95.00	0.1200	0.0840	0.0050
PG05371	95.00	96.00	0.1810	0.1550	0.0080
PG05372	96.00	97.00	0.3100	0.2180	0.0130
PG05373	97.00	98.00	0.2500	0.1540	0.0100
PG05374	98.00	99.00	0.4300	0.1410	0.0160
PG05375	99.00	100.00	0.4430	0.1240	0.0160
PG05376	100.00	101.00	0.3780	0.1280	0.0130
PG05377	101.00	102.00	0.3040	0.1050	0.0110

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Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
PG05378	102.00	103.00	0.1040	0.0460	0.0060
PG05379	103.00	104.00	0.3330	0.1090	0.0120
PG05381	104.00	105.00	0.4230	0.1250	0.0150
PG05382	105.00	106.00	0.4390	0.2170	0.0150
PG05383	106.00	107.00	0.4800	0.1980	0.0170
PG05384	107.00	108.00	0.4160	0.1860	0.0160
PG05385	108.00	109.00	0.4130	0.2000	0.0160
PG05386	109.00	110.00	0.5190	0.2680	0.0200
PG05387	110.00	111.00	0.5420	0.3220	0.0200
PG05388	111.00	112.00	0.4660	0.2010	0.0160
PG05389	112.00	113.00	0.4320	0.1390	0.0170
PG05390	113.00	114.00	0.4530	0.0810	0.0190
PG05391	114.00	115.00	0.5180	0.1210	0.0220
PG05392	115.00	116.00	0.4340	0.2180	0.0180
PG05393	116.00	117.00	0.4550	0.1850	0.0190
PG05394	117.00	118.00	0.4980	0.1610	0.0210
PG05395	118.00	119.00	0.5490	0.3000	0.0220
PG05396	119.00	120.00	0.5130	0.1950	0.0210
PG05397	120.00	121.00	0.4420	0.0960	0.0190
PG05398	121.00	122.00	0.4710	0.0530	0.0190
PG05399	122.00	123.00	0.4400	0.0820	0.0180
PG05401	123.00	124.00	0.3280	0.1890	0.0130
PG05402	124.00	125.00	0.3950	0.1060	0.0150
PG05403	125.00	126.00	0.3090	0.0910	0.0120
PG05404	126.00	127.00	0.3430	0.1680	0.0120
PG05405	127.00	128.00	0.3170	0.1190	0.0120
PG05406	128.00	129.00	0.2310	0.0950	0.0100
PG05407	129.00	130.00	0.4020	0.2210	0.0150
PG05408	130.00	131.00	0.2060	0.1460	0.0100
PG05409	131.00	132.00	0.1860	0.0850	0.0080
PG05410	132.00	133.00	0.4980	0.1240	0.0180
PG05411	133.00	134.00	0.5740	0.2380	0.0210
PG05412	134.00	135.00	0.1110	0.1880	0.0060
PG05413	135.00	136.00	0.2590	0.0830	0.0120
PG05414	136.00	137.00	0.2410	0.0650	0.0100
PG05415	137.00	138.00	0.2600	0.0810	0.0130
PG05416	138.00	139.00	0.1320	0.0460	0.0080

Hole Number: ES07-101

Units: METRIC

Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
PG05417	139.00	140.00	0.1670	0.0640	0.0080
PG05418	140.00	141.00	0.1700	0.0790	0.0080
PG05419	141.00	142.00	0.2390	0.1080	0.0130
PG05420	142.00	143.00	1.0880	0.0730	0.0110
PG05421	143.00	144.00	0.2300	0.1020	0.0120
PG05422	144.00	145.00	0.4700	0.1680	0.0200
PG05423	145.00	146.00	0.3560	0.1570	0.0150
PG05424	146.00	147.00	0.4730	0.2030	0.0200
PG05425	147.00	148.00	0.3630	0.1070	0.0190
PG05426	148.00	149.00	0.2880	0.1260	0.0180
PG05427	149.00	150.00	0.2220	0.0510	0.0160
PG05428	150.00	151.00	0.2010	0.0710	0.0160
PG05429	151.00	152.00	0.2740	0.0550	0.0170
PG05430	152.00	152.89	0.3300	0.1060	0.0190