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Tittel 2004 Summer Drilling, Espedalen Project, Drill Logs ES2004-01 through ES2004-17 Volum 1				
Forfatter Tirschmann		Dato År 24.05 2004	Bedrift (Oppdragsgiver og/eller oppdragstaker) Sulfidmalm A/S	
Kommune Sør-Fron Gausdal	Fylke Oppland	Bergdistrikt	1: 50 000 kartblad 17171 17172	1: 250 000 kartblad Lillehammer
Fagområde Boring		Dokument type	Forekomster (forekomst, gruvefelt, undersøkelsesfelt) Stormyra Vesle Andreasberg Jørstad Storgruva Evans Statsråd Stang Nicoline Melgårdseter Stylskampen Søndre Gråhø Grimstjønna Dalen	
Råstoffgruppe Malm/metall		Råstofftype Cu Ni		
Sammendrag, innholdsfortegnelse eller innholdsbeskrivelse Borlogger og analyser samt oversiktskart borhullsplassering og 2003-UTEM nett				

0908/05

Summer
2004 ~~Winter~~ Drilling

Espedalen,
Oppland county, Norway

Falconbridge Limited
On behalf of
Sulfidmalm A/S

May 24, 2004

May 24, 2005

2004 Drilling Program - Espedalen, Norway

The Espedalen Project is an option and joint venture between Sulfidmalm A/S (Norway), wholly-owned subsidiary of Falconbridge Limited, and Blackstone Ventures Inc. (Canada).

During the period July 12th to October 9th, 2004, a drilling campaign was carried out in the area of Espedalen, Norway by Falconbridge Limited on behalf of Sulfidmalm A/S. The program consisted of seventeen drillholes totaling 1844m. The first four holes (ES2004-01, ES2004-02 & 2A, ES2004-03 and ES2004-04) were drilled by Geobor-Salg A/S (Otta, Norway) and the remaining thirteen holes (ES2004-05 through ES2004-17) by Geo Drilling A/S (Namsos, Norway).

All drillholes were targeted on UTEM conductors obtained from the 2003 and 2004 winter UTEM programs. Of the seventeen holes drilled, fifteen reached target depth and tested the intended geophysical anomaly. (Two holes, ES2004-03 and ES2004-04, were not completed). All fifteen holes intersected variably mineralized mafic and/or ultramafic rocks and/or remobilized sulphide veinlets and stringers associated with ultramafic rocks. The mineralized intercepts adequately explained the UTEM target in all but one of the holes (ES2004-13).

The best results from the 2004 drilling campaign were obtained in the area referred to as "Stormyra" located approximately 2.5km south of the southern end of Espedalen Lake. Drillhole ES2004-08 intersected a narrow mineralized ultramafic body within an anorthositic country rocks between 56.30m and 59.00m. This interval averaged 2.07% Ni, 1.20% Cu and 0.07% Co over 2.70m. A second hole (ES2004-09), drilled 200m along strike to the southwest, intersected 1.73% Ni, 0.77% Cu and 0.06% Co over 14.60m (80.40-95.00m) including up to 6.91% Ni, 2.05% Cu and 0.21% Co over 1.90m (93.10-95.00m). The mineralization is situated at vertical depths of 45-100m and represents a new, previously unknown subsurface zone of nickel mineralization.

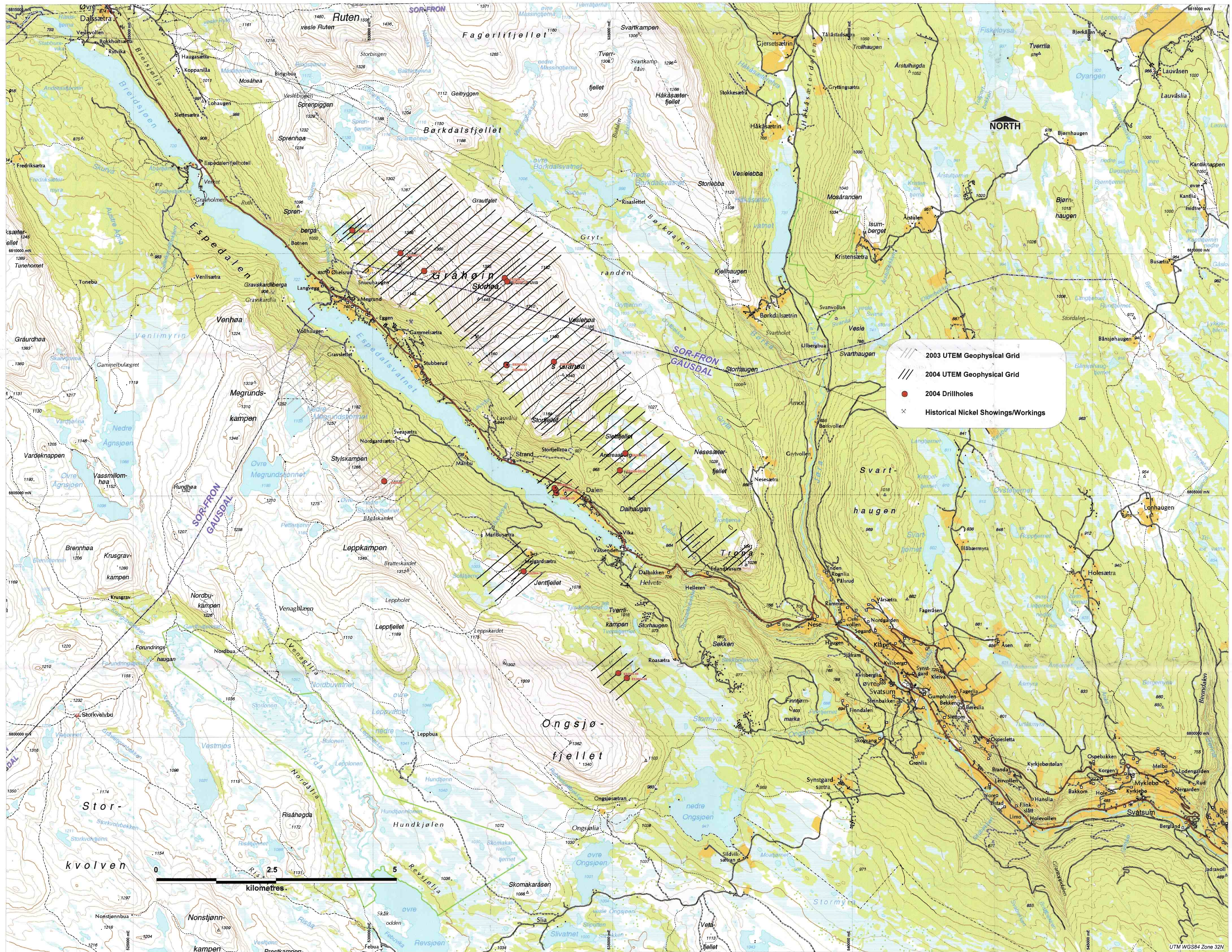
A complete set of drill log for holes ES2004-01 through ES2004-17 (including analytical results) are appended and hole locations can be seen on the included plan map. All drill core samples were analyzed for Ni, Cu, Co, S, Pt, Pd, Au and Ag. Analyses were carried out by SGS Lakefield Research of Lakefield, Canada.

P. Tirschmann
Falconbridge Limited



On behalf of
Sulfidmalm A/S
Serviceboks 604
4606 Kristiansand S

ESPEDALEN PROJECT
Location of 2004 Drilling



Espedalen Project

Drill Logs

ES2004-01 through ES2004-17

NOTE:

Results for samples which returned values below the laboratory detection limit are listed in the drill logs as *one half the detection limit* for the given element as follows:

Ni	0.025% (detection = 0.05%)	Pt	0.01 g/t (detection = 0.02 g/t)
Cu	0.025% (detection = 0.05%)	Pd	0.01 g/t (detection = 0.02 g/t)
Co	0.01% (detection = 0.02%)	Au	0.01 g/t (detection = 0.02 g/t)
S	0.005% (detection = 0.01%)	Ag	0.25 g/t (detection = 0.50 g/t)

Detailed Log

Hole Number: **ES2004-01**

Units: **METRIC**

Project Name: Espedalen Collar Survey: Y Plugged: N
 Project Number: 300 Multishot Survey: N Hole Size: T246
 Date Started: 7/23/2004 Pulse EM Survey: N
 Date Completed: 8/5/2004 Casing: Left in Hole, capped
 Location: Surface

UTM WGS 84 Coord Local Coord
 UTM Northing: 6,805,861.69 Local Northing: 6049.73
 UTM Easting: 535,275.52 Local Easting: 7998.23
 Elevation: 998.32

Core Storage: Strand Fjellstue Collar Dip: -73.50
 Contractor: Geobor-Salag A/S Collar Azimuth: 50.00
 Length: 112.65
 Logged by: Trevor Blair

Comments Purpose: Test UTEM conductor ESP_05_03. Conductivity = 500 Siemens

Result: Intersected gabbro-norites and siliceous metasediments as well as one unit of sulphidic norite (65.45-80.45m). Sulphidic norite contains 3-5% disseminated sulphides and locally up to 10% sulphides where cm scale remobilized veinlets are present. Hand conductivity measurements (taken on whole core) were 300 Siemens.

All nickel values less than detection limit (ie. <0.05%).

Detailed Lithology

From	To	Lithology
0.00	2.85	C Casing

Assay Data

Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
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Detailed Lithology			Assay Data											
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
2.85	41.12	7a Gabbronorite Medium grained, homogenous, equigranular, dark green and white, weakly to moderately magnetic gabbronorite. This unit contains 45% feldspar and 55% equigranular, dark green pyroxenes. Locally, the gabbronorite displays a weak foliation (mineral alignments) at 30-40 tca. The lower 3.32m (37.80m to 41.12m) contains 5-15% mm scale, dark brown to purple garnets (almandine). This unit contains no visible sulphides. The lower contact of this unit is diffuse and was based on the appearance of quartz-rich banding. Interpretation: Consistent with Heim's Rock Suite 3 (Gabbronorite-Noritegabbro). <u>Minor interval</u> 18.20 18.41 8e Pyroxenite Fine grained, non-magnetic, dark green to black, homogenous pyroxenite dyke. The upper contact is sharp at 35 tca with the lower contact lost in broken core.												

Detailed Lithology					Assay Data											
From	To	Lithology			Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
41.12	65.45	5a Siliceous Metasediments			PG00051	41.12	41.85	0.73	0.03	0.03	0.01	3.64	0.01	0.01	0.01	0.25
		Fine grained, strongly silicified, grey, unhomogenous, non-magnetic metasediments. The sediments are moderately foliated (45-60 degrees tca, remenant bedding) and locally appear remelted, resulting in a gneissic texture. This unit contains 10-15% mm scale pink garnets and 10% mafic minerals (biotite, pyroxenes) within a quartzofeldspathic matrix. Intercalated with siliceous sediments are more mafic horizons (dm scale - Heim's series 2 norites?) which generally contain 3-5% finely disseminated sulphides.			PG00052	41.85	42.72	0.87	0.03	0.03	0.01	3.39	0.01	0.01	0.01	0.25
		This unit is crosscut by 15-20% dm to m scale fine grained, homogenous, non-magnetic, pale to dark green, mafic dykes (pyroxenite?). These dykes are weakly silicified, crosscut by mm scale chlorite infilled fractures and contain locally contain trace sulphides. See minor units for intervals.			PG00053	44.78	45.18	0.40	0.03	0.03	0.01	0.69	0.01	0.01	0.01	0.25
		These metasediments contain trace to 3% fine grained disseminated non-magnetic pyrrhotite. Sulphides are locally concentrated in cm to dm scale horizons, concordant with foliations.			PG00054	45.18	45.58	0.40	0.03	0.03	0.01	3.05	0.01	0.01	0.03	0.25
		The lower contact of this unit is gradational over 2.0m and was based on the increased percentage of mafic horizons versus siliceous horizons.			PG00055	45.58	45.98	0.40	0.03	0.03	0.01	0.17	0.01	0.01	0.01	0.25
		Interpretation: Likely consistent with Heim's Rock Suite 1 (Hybrid rocks).			PG00056	51.44	52.12	0.68	0.03	0.03	0.01	3.82	0.01	0.01	0.02	0.25
		Minor Interval			PG00057	52.12	52.75	0.63	0.03	0.03	0.01	1.67	0.01	0.01	0.01	0.25
		52.75	54.02	8e Pyroxenite	PG00058	52.75	54.02	1.27	0.03	0.03	0.01	0.67	0.01	0.01	0.01	0.25
				See major unit for description.	PG00059	56.75	57.30	0.55	0.03	0.03	0.01	2.70	0.01	0.01	0.01	0.25
				Upper contact is sharp but irregular (approximately 15 degrees tca), lower contact is sharp at 55 degrees tca.	PG00060	57.30	57.80	0.50	0.03	0.03	0.01	6.39	0.01	0.01	0.02	0.25
				Minor Interval	PG00061	57.80	58.39	0.59	0.03	0.03	0.01	3.51	0.01	0.01	0.01	0.25
		58.39	60.06	8e Pyroxenite	PG00062	58.39	59.31	0.92	0.03	0.03	0.01	2.79	0.01	0.01	0.03	0.25
				See major unit for description (medium grained).	PG00063	59.31	60.27	0.96	0.03	0.03	0.01	2.25	0.02	0.01	0.01	0.25
				Upper contact is lost within broken core, lower contact occurs along quartzofeldspathic veinlet, sub-parallel to core axis (5 degrees tca).	PG00064	64.08	65.45	1.37	0.03	0.03	0.01	3.18	0.01	0.01	0.01	0.25
		Mineralization														
		45.30	45.42	12.0 %	Po	Pyrrhotite										
					D	Disseminated										
						10-15%										
		Mineralization														
		57.50	57.58	50.0 %	Po	Pyrrhotite										
					VN	Veined										
						Remobilized veinlets										
		Structure														
		43.80	43.81	Sm	General Foliation											
		Structure														
		44.05	44.06	Sm	General Foliation											
		Structure														
		45.37	45.38	Sm	General Foliation											

Detailed Lithology					Assay Data											
From	To	Lithology			Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
		<u>Structure</u>	63.65	63.66	Sm	General Foliation										
65.45	80.45	6f	Norite													
Fine to medium grained, dark grey, weakly to moderately magnetic norite composed of 65% pyroxenes and 35% plagioclase. This unit contains 5% cm to dm scale horizons of anorthosite as well as 5% cm to dm scale horizons of metasediments. Contact relationships are generally sharp but irregular (see minor units for larger horizons). Locally, plagioclase appears as mm to cm scale clots (remelt) which results in a vague brecciated texture. This norite contains 3-5% disseminated sulphides throughout, although sulphides have been remobilized resulting in mm scale veinlets (defining foliation planes) and blebs. Locally, sulphide content (cm to dm scale) approaches 10%. The lower contact of this unit is sharp along a siliceous sedimentary unit. Interpretation: Likely consistent with Heim's Rock Suite 2b (Sulphide bearing norites containing rafts of Hybrid rocks and intermixed with Anorthosites). <u>Minor Interval</u> 67.24 67.62 4 Anorthosite / Anorthositic Gabbro Medium grained, white, non-magnetic, massive anorthosite composed of 90% plagioclase and 10% pyroxenes. The upper and lower contacts of this unit are sharp but irregular. The anorthosite appears to be younger than the norite as two amoeboid fingers intrude the noritic groundmass. This unit contains trace disseminated sulphides. <u>Minor Interval</u> 77.06 78.10 5a Siliceous Metasediments Fine grained, non-magnetic, grey and white, weakly to moderately foliated metasediments composed of plagioclase, pyroxenes, garnet and quartz. The lower contact of this unit is highly broken, although garnet content increases toward the lower contact. <u>Mineralization</u> 65.45 80.45 5.0 % Po Pyrrhotite D Disseminated Locally remobilized in veinlets (up to 10%) <u>Structure</u> 70.40 70.41 Sm General Foliation Within sedimentary raft <u>Structure</u> 79.45 79.46 Sm General Foliation Within norite, sulphides define foliation					PG00065	65.45	66.35	0.90	0.03	0.03	0.01	5.40	0.01	0.01	0.01	0.25
					PG00066	66.35	67.24	0.89	0.03	0.06	0.01	5.05	0.01	0.01	0.01	0.60
					PG00068	67.62	68.50	0.88	0.03	0.03	0.01	5.29	0.01	0.01	0.01	0.50
					PG00069	68.50	69.50	1.00	0.03	0.03	0.01	4.79	0.01	0.01	0.01	0.25
					PG00070	69.50	70.50	1.00	0.03	0.03	0.01	4.01	0.01	0.01	0.01	0.25
					PG00071	70.50	71.50	1.00	0.03	0.03	0.01	2.18	0.01	0.01	0.02	0.25
					PG00072	71.50	72.50	1.00	0.03	0.03	0.01	5.50	0.01	0.01	0.02	0.25
					PG00073	72.50	73.50	1.00	0.03	0.03	0.01	5.90	0.01	0.01	0.04	0.25
					PG00074	73.50	74.50	1.00	0.03	0.03	0.01	6.23	0.01	0.01	0.05	0.25
					PG00076	74.50	75.50	1.00	0.03	0.03	0.01	5.17	0.01	0.01	0.01	0.25
					PG00077	75.50	76.50	1.00	0.03	0.03	0.01	7.85	0.01	0.01	0.15	0.25
					PG00078	76.50	77.06	0.56	0.03	0.03	0.01	9.10	0.01	0.01	0.02	0.25
					PG00080	78.10	78.70	0.60	0.03	0.03	0.01	4.54	0.01	0.01	0.01	0.25
					PG00081	78.70	79.50	0.80	0.03	0.03	0.01	7.86	0.01	0.01	0.01	0.60
					PG00082	79.50	80.45	0.95	0.03	0.03	0.01	7.07	0.01	0.02	0.01	0.25

Detailed Lithology					Assay Data											
From	To	Lithology			Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
80.45	97.78	5a Siliceous Metasediments			PG00083	80.45	81.00	0.55	0.03	0.03	0.01	1.37	0.01	0.01	0.01	0.25
Fine grained, light to dark grey, weakly to moderately foliated (60 tca), non-magnetic siliceous metasediment composed of 25% mm scale, light purple garnets, 5-10% pyroxenes and <5% biotite within a quartzofeldspathic groundmass. This unit is highly broken and blocky. Trace disseminated pyrrhotite occurs locally. The lower contact of this unit is sharp at 60 degrees tca with underlying unit. Interpretation: Likely consistent with Heim's Rock Suite 1 (Hybrid rocks). <u>Structure</u> 87.30 87.31 Sm General Foliation <u>Structure</u> 95.60 95.61 Sm General Foliation <u>Structure</u> 96.23 96.24 Sm General Foliation																
97.78	112.65	7a Gabbronorite														
Medium grained (equigranular), black and white, homogenous, massive, weakly magnetic gabbronorite composed of 55-65% pyroxenes and 35-45% plagioclase. The upper 1.50m of this unit is fine grained, light green and non-magnetic (late intrusive). This unit contains local trace disseminated sulphides. The lower contact of this unit is unknown as drillhole was completed at 112.65m. Interpretation: Consistent with Heim's Rock Suite 3 (Gabbronorite-Noritegabbro).																

Espedalen - Analysis

Hole Number: ES2004-01

Sample Number	From	To	Sample Length	N%	Cu%	Co%	S%	Au g/t	Pt g/t	Pd g/t	Ag g/t	Pb%	Zn%	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI%	SUM %
PG00051	41.12	41.85	0.73	0.03	0.03	0.01	3.64	0.01	0.01	0.01	0.25																
PG00052	41.85	42.72	0.87	0.03	0.03	0.01	3.39	0.01	0.01	0.01	0.25																
PG00053	44.78	45.18	0.40	0.03	0.03	0.01	0.69	0.01	0.01	0.01	0.25																
PG00054	45.18	45.58	0.40	0.03	0.03	0.01	3.05	0.03	0.01	0.01	0.25																
PG00055	45.58	45.98	0.40	0.03	0.03	0.01	0.17	0.01	0.01	0.01	0.25																
PG00056	51.44	52.12	0.68	0.03	0.03	0.01	3.82	0.02	0.01	0.01	0.25																
PG00057	52.12	52.75	0.63	0.03	0.03	0.01	1.67	0.01	0.01	0.01	0.25																
PG00058	52.75	54.02	1.27	0.03	0.03	0.01	0.67	0.01	0.01	0.01	0.25																
PG00059	56.75	57.30	0.55	0.03	0.03	0.01	2.70	0.01	0.01	0.01	0.25																
PG00060	57.30	57.80	0.50	0.03	0.03	0.01	6.39	0.02	0.01	0.01	0.25																
PG00061	57.80	58.39	0.59	0.03	0.03	0.01	3.51	0.01	0.01	0.01	0.25																
PG00062	58.39	59.31	0.92	0.03	0.03	0.01	2.79	0.03	0.01	0.01	0.25																
PG00063	59.31	60.27	0.96	0.03	0.03	0.01	2.25	0.01	0.02	0.01	0.25																
PG00064	64.08	65.45	1.37	0.03	0.03	0.01	3.18	0.01	0.01	0.01	0.25																
PG00065	65.45	66.35	0.90	0.03	0.03	0.01	5.40	0.01	0.01	0.01	0.25																
PG00066	66.35	67.24	0.89	0.03	0.06	0.01	5.05	0.01	0.01	0.01	0.60																
PG00067	67.24	67.62	0.38	0.03	0.03	0.01	0.57	0.01	0.01	0.01	0.25																
PG00068	67.62	68.50	0.88	0.03	0.03	0.01	5.29	0.01	0.01	0.01	0.50																
PG00069	68.50	69.50	1.00	0.03	0.03	0.01	4.79	0.01	0.01	0.01	0.25																
PG00070	69.50	70.50	1.00	0.03	0.03	0.01	4.01	0.01	0.01	0.01	0.25																
PG00071	70.50	71.50	1.00	0.03	0.03	0.01	2.18	0.02	0.01	0.01	0.25																
PG00072	71.50	72.50	1.00	0.03	0.03	0.01	5.50	0.02	0.01	0.01	0.25																
PG00073	72.50	73.50	1.00	0.03	0.03	0.01	5.90	0.04	0.01	0.01	0.25																
PG00074	73.50	74.50	1.00	0.03	0.03	0.01	6.23	0.05	0.01	0.01	0.25																
PG00076	74.50	75.50	1.00	0.03	0.03	0.01	5.17	0.01	0.01	0.01	0.25																
PG00077	75.50	76.50	1.00	0.03	0.03	0.01	7.85	0.15	0.01	0.01	0.25																
PG00078	76.50	77.06	0.56	0.03	0.03	0.01	9.10	0.02	0.01	0.01	0.25																
PG00079	77.06	78.10	1.04	0.03	0.03	0.01	1.55	0.01	0.01	0.01	0.25																

Espedalen - Analysis**Hole Number: ES2004-01**

Sample Number	From	To	Sample Length	Ni%	Cu%	Co%	S%	Au g/t	Pt g/t	Pd g/t	Ag g/t	Pb%	Zn%	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI%	SUM %
PG00080	78.10	78.70	0.60	0.03	0.03	0.01	4.54	0.01	0.01	0.01	0.25																
PG00081	78.70	79.50	0.80	0.03	0.03	0.01	7.86	0.01	0.01	0.01	0.60																
PG00082	79.50	80.45	0.95	0.03	0.03	0.01	7.07	0.01	0.01	0.02	0.25																
PG00083	80.45	81.00	0.55	0.03	0.03	0.01	1.37	0.01	0.01	0.01	0.25																

Espedalen - Conductivity**Hole Number: ES2004-01**

Depth	Conductivity (Siemens)	COMMENTS
45.38	875.00	
57.55	300.00	
69.50	300.00	
72.25	250.00	
76.75	350.00	
79.85	200.00	

Espedalen - Magnetic Susceptibility**Hole Number: ES2004-01**

DEPTH	MAGNETIC SUSCEPTIBILITY (X 10 ⁻³ SI)	COMMENTS
3.50	1.90	
4.50	1.43	
5.50	1.59	
6.50	2.85	
7.50	1.74	
8.50	2.81	
9.50	2.42	
10.50	2.13	
11.50	2.06	
12.50	0.43	
13.50	2.24	
14.50	1.75	
15.50	2.26	
16.50	0.73	
17.50	3.00	
18.50	3.27	
19.50	3.60	
20.50	2.82	
21.50	2.44	
22.50	3.53	
23.50	4.80	
24.50	3.09	
25.50	3.04	
26.50	3.45	
27.50	3.88	
28.50	3.92	
29.50	3.51	
30.50	5.18	
31.50	4.44	
32.50	15.80	
33.50	10.20	
34.50	9.95	
35.50	7.10	
36.50	8.49	
37.50	30.50	
38.50	7.68	

*Friday, May 20, 2005**ES2004-01*

Espedalen - Magnetic Susceptibility**Hole Number: ES2004-01**

39.50	7.23	
40.50	3.31	
41.50	0.27	
42.50	1.03	
43.50	0.12	
44.50	0.31	
45.50	0.06	
46.50	0.17	
47.50	0.45	
48.50	0.11	
49.50	0.00	LOST CORE
50.50	0.31	
51.50	0.37	
52.50	0.47	
53.50	0.37	
54.50	0.55	
55.50	0.29	
56.50	0.74	
57.50	0.52	
58.50	0.21	
59.50	0.73	
60.50	0.41	
61.50	0.36	
62.50	0.32	
63.50	0.20	
64.50	0.29	
65.50	0.62	
66.50	0.78	
67.50	0.05	
68.50	0.27	
69.50	0.65	
70.50	0.21	
71.50	0.15	
72.50	0.34	
73.50	0.65	
74.50	0.19	
75.50	5.03	
76.50	0.32	
77.50	0.09	

*Friday, May 20, 2005**ES2004-01*

Espedalen - Magnetic Susceptibility**Hole Number: ES2004-01**

78.50	0.18	
79.50	0.39	
80.50	0.12	
81.50	0.15	
82.50	0.96	
83.50	0.62	
84.50	0.11	
85.50	0.25	
86.50	1.25	
87.50	0.27	
88.50	0.53	
89.50	0.24	
90.50	0.19	
91.50	0.13	
92.50	0.16	
93.50	0.50	
94.50	0.15	
95.50	0.09	
96.50	0.18	
97.50	0.06	
98.50	0.23	
99.50	4.65	
100.50	1.51	
101.50	2.70	
102.50	4.88	
103.50	4.44	
104.50	2.97	
105.50	2.16	
106.50	1.70	
107.50	5.62	
108.50	3.14	
109.50	3.21	
110.50	3.93	
111.50	0.94	
112.50	2.75	EOH at 112.65m

*Friday, May 20, 2005**ES2004-01*

Espedalen - Rock Quality (RQD)**Hole Number: ES2004-01**

FROM	TO	PERCENT QUALITY	PERCENT CORE	DISKING	COMMENTS
2.85	6.00	37.00	69.00	N	Missing core not marked in box
6.00	9.00	26.00	79.00	N	Missing core not marked in box
9.00	12.00	18.00	83.00	N	37cm of ground core at 11.63cm
12.00	15.00	25.00	93.00	N	
15.00	18.00	39.00	100.00	N	
18.00	21.00	57.00	97.00	N	
21.00	24.00	64.00	100.00	N	
24.00	27.00	76.00	100.00	N	
27.00	30.00	76.00	100.00	N	
30.00	33.00	50.00	100.00	N	
33.00	36.00	55.00	100.00	N	
36.00	39.00	41.00	100.00	N	
39.00	42.00	52.00	100.00	N	
42.00	45.00	27.00	100.00	N	
45.00	48.00	29.00	100.00	N	
48.00	51.00	29.00	50.00	N	1.5m of lost core
51.00	54.00	35.00	93.00	N	
54.00	57.00	41.00	100.00	N	
57.00	60.00	23.00	100.00	N	
60.00	63.00	54.00	100.00	N	
63.00	66.00	51.00	100.00	N	
66.00	69.00	58.00	100.00	N	
69.00	72.00	46.00	100.00	N	
72.00	75.00	30.00	100.00	N	
75.00	78.00	59.00	100.00	N	
78.00	81.00	62.00	100.00	N	
81.00	84.00	4.00	100.00	N	
84.00	87.00	0.00	100.00	N	Broken, blocky core, pieces reground
87.00	90.00	19.00	100.00	N	
90.00	93.00	20.00	100.00	N	
93.00	96.00	0.00	100.00	N	
96.00	99.00	38.00	100.00	N	
99.00	102.00	53.00	100.00	N	
102.00	105.00	74.00	100.00	N	
105.00	108.00	55.00	100.00	N	
108.00	111.00	32.00	100.00	N	
111.00	112.65	24.00	100.00	N	

Friday, May 20, 2005

ES2004-01

Detailed Log

Hole Number:	ES2004-02							Units: METRIC															
Project Name:	Espedalen	Collar Survey:	N	Plugged	N							Core Storage:	Strand Fjellstue				Collar Dip:	-45.00					
Project Number:	300	Multishot Survey:	N	Hole Size:	T246							Contractor:	Geobor-Salag A/S				Collar Azimuth:	50.00					
Date Started:	7/21/2004	Pulse EM Survey:	N							UTM Northing:	6,805,506.83		Local Northing:	5735.23				Length:	29.80				
Date Completed:	8/2/2004	Casing:	Left in Hole, capped									UTM Easting:	535,162.74		Local Easting:	8197.58							
												Elevation:	1001.62								Logged by:	Trevor Blair	
Comments Purpose: Test UTEM conductor ESP_05_04. Conductivity = 500 Siemens. Result: Hole was abandoned after 2 unsuccessful cementing attempts. Recollared as ES2004-02A. No samples taken. Lithological interpretation: Intersected anorthosite/anorthositic gabbro with minor gabbronorite.																							
Detailed Lithology										Assay Data													
From	To	Lithology																					
0.00	1.20	C Casing																					

Detailed Lithology			Assay Data											
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
1.20	29.80	4 Anorthosite / Anorthositic Gabbro Medium grained, white and dark green, non-magnetic, anorthosite / anorthositic gabbro composed of 70-75% plagioclase, 20-25% pyroxene, 5% biotite and trace to 3% garnets. This unit contains 10-15% mm scale, dark green to black, amorphous veinlets which are at irregular angles to the ca, resulting in a brecciated texture. Proximal to these veinlets the plagioclase has a light green hue (sausseritized). Mafic components increase downhole resulting in a more gabbroic composition. This unit is crosscut by dm to m scale, fine grained, non-magnetic, black and white, homogenous gabbroic dykes. Contact relationships are sharp but irregular (see minor units). These dykes contain 50-60% pyroxenes (light green to black) and 40-50% plagioclase. The lower 10.45m (19.35-20.80m) is injected with approximately 50% dyklets which do not display sharp contacts but rather irregular, remelted contacts? This unit locally contains fine grained disseminated pyrrhotite. The lower contact of this unit is undetermined as hole was lost at 29.8m. Interpretation: Consistent with Heim's Rock Suite 2a (Anorthosite - Anorthositic Gabbro), crosscut by late gabbroic bodies (Rock Suite 3). <u>Minor Interval</u> 8.06 8.96 7a Gabbroic See major unit for rock description. The upper and lower contacts of this unit are sharp but undulating at approx 37 and 10 degrees tca, respectively. <u>Minor Interval</u> 16.96 17.34 7a Gabbroic See major unit for rock description. The upper and lower contacts of this unit are sharp but undulating at approx 35 and 55 degrees tca, respectively. <u>Alteration</u> 1.20 19.35 ALT ALTERATION P Pervasive M Moderate Sausseritized <u>Alteration</u> 1.20 6.00 WEA Weathering F Fracture-Controlled S Strong Ground water infiltration												

Espedalen - Magnetic Susceptibility**Hole Number: ES2004-02**

DEPTH	MAGNETIC SUSCEPTIBILITY (X 10 ⁻³ SI)	COMMENTS
1.50	0.35	
2.50	0.34	
3.50	0.36	
4.50	0.18	
5.50	0.40	
6.50	0.52	
7.50	0.05	
8.50	0.50	
9.50	0.16	
10.50	0.18	
11.50	0.08	
12.50	0.35	
13.50	0.18	
14.50	1.93	
15.50	1.47	
16.50	0.15	
17.50	0.17	
18.50	0.14	
19.50	0.57	
20.50	0.46	
21.50	0.32	
22.50	0.21	
23.50	0.38	
24.50	0.50	
25.50	0.62	
26.50	0.72	
27.50	0.98	
28.50	0.73	
29.50	0.51	

*Friday, May 20, 2005**ES2004-02*

Espedalen - Rock Quality (RQD)**Hole Number: ES2004-02**

FROM	TO	PERCENT QUALITY	PERCENT CORE	DISKING	COMMENTS
1.20	3.00	22.00	89.00	N	
3.00	6.00	11.00	100.00	N	
6.00	9.00	51.00	100.00	N	
9.00	12.00	58.00	88.00	N	
12.00	15.00	45.00	100.00	N	
15.00	18.00	45.00	97.00	N	
18.00	21.00	47.00	100.00	N	
21.00	24.00	30.00	100.00	N	
24.00	27.00	34.00	100.00	N	
27.00	29.80	34.00	100.00	N	EOH at 29.80m

*Friday, May 20, 2005**ES2004-02*

Detailed Log

Hole Number: **ES2004-02A**

Units: METRIC

Project Name: Espedalen Collar Survey: Y Plugged N
 Project Number: 300 Multishot Survey: N Hole Size: T246
 Date Started: 8/2/2004 Pulse EM Survey: N
 Date Completed: 8/12/2004 Casing: Left in Hole, capped
 Location: Surface

UTM WGS 84 Coord Local Coord
 UTM Northing: 6,805,506.83 Local Northing: 5735.23
 UTM Easting: 535,162.74 Local Easting: 8197.58
 Elevation: 1001.62

Core Storage: Strand Fjellstue Collar Dip: -45.00
 Contractor: Geobor-Salag A/S Collar Azimuth: 50.00
 Length: 93.40
 Logged by: Trevor Blair

Comments Purpose: Test UTEM conductor ESP_05_04. Conductivity = 500 Siemens

Result: Hole intersected oikocrystic pyroxenite and weakly mineralized norite bounded uphole and downhole by anorthosite/anorthositic gabbro. Two zones of weak mineralization were intersected:

- 1) 31.50-36.66m (gabbro): 5-15% sulphides (disseminations & cm scale remobilized veinlets); best nickel value was 0.17% Ni / 1.08m (35.19-36.27m)
- 2) 61.30-68.03m (norite): 10-15% sulphides (mm to cm scale remobilized veinlets, disseminations and patches); all nickel values <0.10%.

Lithological nterpretation: Intersected mineralized and unmineralized noritic and ultramafic rocks (coincident with M. Heim's rock suite 2b) bounded by anorthosites / anorthositic gabbros (Heim's rock suite 2a).

Detailed Lithology

Assay Data

From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
0.00	3.00	C Casing												
		0.00-1.50m of OVB												
		1.50-3.00m cement from lost hole ES2004-02. Redrill of hole ES2004-02 deviated from cement and rock was cored from 3.00m and beyond.												

Detailed Lithology				Assay Data											
From	To	Lithology		Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
3.00	37.65	4 Anorthosite / Anorthositic Gabbro		PG00084	30.50	31.50	1.00	0.03	0.03	0.01	0.80	0.01	0.01	0.03	0.25
Medium grained, white and dark green, non-magnetic, anorthosite / anorthositic gabbro composed of 70-75% plagioclase, 20-25% pyroxene, 5% biotite and trace to 3% garnets. This unit contains 5-10% mm scale, dark green to black, amorphous veinlets which are at irregular angles to the ca, resulting in a brecciated texture. Proximal to these veinlets the plagioclase has a light green hue (saussuritized). Pyroxene content within the rock unit increases downhole towards the lower contact resulting in a gabbroic composition. Melanocratic and leucocratic constituents appear to be segregated in dm to m scale horizons with gradational contacts between the two (compositional banding?). This unit is crosscut by dm to m scale, fine grained, non-magnetic, black and white, homogenous gabbroic dykes. Contact relationships are sharp but irregular (see minor units). These dykes contain 50-60% pyroxenes (light green to black) and 40-50% plagioclase. The upper portion of this unit locally contains fine grained disseminated pyrrhotite (non-magnetic) with sulphide content increasing below 30.50m to 3-5%. These sulphides appear as fine grained disseminations as well as cm scale remobilized veinlets (with chalcopyrite). The lower contact of this unit is lost within broken core but is obvious as plagioclase within the groundmass is absent, as well as an increased magnetic susceptibility. Interpretation: Consistent with Heim's Rock Suite 2a (Anorthosite - Anorthositic Gabbro), crosscut by late gabbroic bodies (Rock Suite 3).				PG00085	31.50	32.65	1.15	0.03	0.03	0.01	2.32	0.01	0.01	0.01	0.25
				PG00086	32.65	34.09	1.44	0.03	0.03	0.02	0.72	0.01	0.01	0.02	0.25
				PG00087	34.09	35.19	1.10	0.03	0.03	0.01	0.39	0.01	0.01	0.01	0.25
				PG00088	35.19	36.27	1.08	0.17	0.05	0.04	15.80	0.02	0.09	0.04	0.60
				PG00089	36.27	36.66	0.39	0.12	0.17	0.02	11.20	0.01	0.03	0.01	0.25
				PG00090	36.66	37.65	0.99	0.03	0.06	0.01	1.33	0.01	0.01	0.02	0.25
				Minor Interval											
3.00	5.60	4 Anorthosite / Anorthositic Gabbro		Drill core is incomplete as cement from ES2004-02 acted as a wedge. The drill core is virtually a semi-barrel with the final scallop appearing at 5.60m. At this point, ES2004-02A has deviated 46mm from hole ES2004-02.											
Minor Interval															
5.60	7.00	7a Gabbroic		See major unit for rock description. The upper contact of this unit is sharp at approximately 65 degrees tca with the lower contact at 50 degrees tca.											
Minor Interval															
12.00	12.67	7a Gabbroic		See major unit for rock description. The upper contact is sharp but lost within broken core with the lower contact sharp but irregular.											
Mineralization															
31.50	32.65	7.0 %	Po	Pyrrhotite											
			VN	Veined											
				5 individual cm scale remobilized veinlets											

Detailed Lithology						Assay Data											
From	To	Lithology				Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
		<u>Mineralization</u>	36.27	36.66	1.0 % Cpy D Disseminated												
		<u>Mineralization</u>	36.27	36.66	15.0 % Po D Disseminated remobilized												
		<u>Structure</u>	28.20	28.21	Sm General Foliation												
		<u>Structure</u>	29.50	29.51	Sm General Foliation												
37.65	56.55	6c Oikocrystic Pyroxenite				PG00091	42.48	43.48	1.00	0.10	0.03	0.03	0.08	0.01	0.01	0.01	0.25
		Fine grained, weakly foliated, strongly magnetic, dark grey, moderately serpentinized oikocrystic pyroxenite. This unit contains 10-20% mm scale dark green to black serpentine veinlets at ~60 degrees to the core axis. Pyroxenes occur as mm scale, light to dark grey oikocrysts which are partially replaced by serpentine and magnetite. Unit is likely a transitional unit between a 'good' oikocrystic pyroxenite and a 'good' peridotite.															
		This unit contains trace disseminated sulphides															
		The lower contact of this unit was based on the percentage of plagioclase within the matrix but is lost within broken core.															
		Interpretation: Consistent with Heim's Rock Suite 2b (Peridotite - Pyroxenite).															
		<u>Minor Interval</u>															
		51.82	56.06	6f Norite													
				Fine grained, moderately magnetic, massive, homogenous norite containing 10% mm scale, subhedral, white plagioclase crystals within a dark green pyroxenitic groundmass (differentiated horizon to ultramafic body intersected uphole).													
				This unit is unmineralized.													
				The unit contains gradational contacts and were based on the percentage of plagioclase.													
		<u>Alteration</u>	37.65	51.82	SERP Serpentine P Pervasive M Moderate												
		<u>Structure</u>	42.85	42.86	Sm General Foliation												
		<u>Structure</u>	44.73	44.74	Sm General Foliation												

Detailed Lithology				Assay Data											
From	To	Lithology		Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
56.55	68.03	6f Norite Fine to locally medium grained, dark to light blue-grey, weakly magnetic, weakly foliated norite composed of 55-70% pyroxenes and 30-45% plagioclase (within groundmass as well as mm to cm scale remelt bands). From 64.95-68.03m, mafic mineral content increases and unit is a melano-norite grading downhole to an ultramafic. This unit contains dm to m scale horizons of anorthosite / anorthositic gabbro (rafts?) which are fine to medium grained, white-dark brown, non-magnetic, weakly foliated and composed of ~50% plagioclase and ~50% pyroxenes (see minor units for contact relationships and lengths). Sulphides (10-15% pyrrhotite, pyrite +-chalcopyrite) occur as fine grained disseminations and mm scale amoeboid patches which appear to have been locally remobilized resulting in mm to cm scale massive and semi-massive veinlets. Mm scale semi-angular to semi-rounded clasts of mafic (norite) to felsic (anorthosite) composition occur within larger sulphide veinlets. Non-magnetic pyrrhotite is the prominent sulphide, although local concentrations of brassy-yellow pyrite are generally located within thicker sulphide veinlets, and mm scale local veinlets of chalcopyrite. The lower contact of this unit is sharp at 35 degrees tca along an anorthosite unit.		PG00092	56.55	57.03	0.48	0.03	0.03	0.02	0.62	0.01	0.01	0.01	0.25
				PG00093	57.03	57.67	0.64	0.05	0.03	0.01	7.49	0.01	0.02	0.02	0.60
				PG00094	57.67	58.41	0.74	0.03	0.03	0.01	0.36	0.01	0.01	0.01	0.25
				PG00095	60.80	61.30	0.50	0.03	0.03	0.03	1.22	0.12	0.01	0.01	0.25
				PG00096	61.30	62.30	1.00	0.08	0.08	0.02	13.00	0.01	0.01	0.02	0.60
				PG00097	62.30	63.30	1.00	0.06	0.11	0.03	11.40	0.01	0.01	0.01	0.60
				PG00098	63.30	64.30	1.00	0.07	0.08	0.01	12.80	0.01	0.02	0.02	0.25
				PG00099	64.30	65.30	1.00	0.06	0.08	0.02	10.70	0.01	0.01	0.01	0.25
				PG00101	65.30	66.30	1.00	0.07	0.08	0.02	11.70	0.01	0.02	0.02	0.25
				PG00102	66.30	67.30	1.00	0.05	0.07	0.01	10.40	0.01	0.01	0.03	0.60
				PG00103	67.30	68.03	0.73	0.03	0.03	0.01	6.01	0.01	0.01	0.01	0.25
Minor Interval															
58.41	59.70	4 Anorthosite / Anorthositic Gabbro See major units for rock description. The upper and lower contacts of this unit are sharp at 65 and 45 degrees tca, respectively.													
Mineralization	61.30	68.03	0.5 %	Cpy F	Chalcopyrite Fracture-Controlled										
Mineralization	61.30	68.03	2.0 %	Py MG	Pyrite Medium Grained										
Mineralization	61.30	68.03	12.5 %	Po STR	Pyrrhotite Stringers 10-15% disseminated, patchy, semi-massive veinlets, massive veinlets										

Detailed Lithology			Assay Data											
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
68.03	93.40	4 Anorthosite / Anorthositic Gabbro Fine to medium grained, green to grey to white, non-magnetic, weakly to moderately foliated anorthositic gabbro composed of 30-45% plagioclase (greenish hue - sausseritized) and 55-70% pyroxenes. This unit contains dm scale compositional segregation between mafic and felsic horizons. The unit contains local trace disseminated pyrrhotite. The lower contact of this unit is unknown as the hole was completed. Early completion due to broken casing in the hole.	PG00104	68.03	68.73	0.70	0.03	0.03	0.02	6.69	0.01	0.01	0.02	0.25
			PG00105	68.73	69.33	0.60	0.03	0.03	0.01	1.68	0.01	0.01	0.01	0.25
		Structure 91.40 91.41 Sm General Foliation												

Espedalen - Analysis

Hole Number: ES2004-02A

Sample Number	From	To	Sample Length	Ni%	Cu%	Co%	S%	Au g/t	Pt g/t	Pd g/t	Ag g/t	Pb%	Zn%	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI%	SUM %
PG00084	30.50	31.50	1.00	0.03	0.03	0.01	0.80	0.03	0.01	0.01	0.25																
PG00085	31.50	32.65	1.15	0.03	0.03	0.01	2.32	0.01	0.01	0.01	0.25																
PG00086	32.65	34.09	1.44	0.03	0.03	0.02	0.72	0.02	0.01	0.01	0.25																
PG00087	34.09	35.19	1.10	0.03	0.03	0.01	0.39	0.01	0.01	0.01	0.25																
PG00088	35.19	36.27	1.08	0.17	0.05	0.04	15.80	0.04	0.02	0.09	0.60																
PG00089	36.27	36.66	0.39	0.12	0.17	0.02	11.20	0.01	0.01	0.03	0.25																
PG00090	36.66	37.65	0.99	0.03	0.06	0.01	1.33	0.02	0.01	0.01	0.25																
PG00091	42.48	43.48	1.00	0.10	0.03	0.03	0.08	0.01	0.01	0.01	0.25																
PG00092	56.55	57.03	0.48	0.03	0.03	0.02	0.62	0.01	0.01	0.01	0.25																
PG00093	57.03	57.67	0.64	0.05	0.03	0.01	7.49	0.02	0.01	0.02	0.60																
PG00094	57.67	58.41	0.74	0.03	0.03	0.01	0.36	0.01	0.01	0.01	0.25																
PG00095	60.80	61.30	0.50	0.03	0.03	0.03	1.22	0.01	0.12	0.01	0.25																
PG00096	61.30	62.30	1.00	0.08	0.08	0.02	13.00	0.02	0.01	0.01	0.60																
PG00097	62.30	63.30	1.00	0.06	0.11	0.03	11.40	0.01	0.01	0.01	0.60																
PG00098	63.30	64.30	1.00	0.07	0.08	0.01	12.80	0.02	0.01	0.02	0.25																
PG00099	64.30	65.30	1.00	0.06	0.08	0.02	10.70	0.01	0.01	0.01	0.25																
PG00101	65.30	66.30	1.00	0.07	0.08	0.02	11.70	0.02	0.01	0.02	0.25																
PG00102	66.30	67.30	1.00	0.05	0.07	0.01	10.40	0.03	0.01	0.01	0.60																
PG00103	67.30	68.03	0.73	0.03	0.03	0.01	6.01	0.01	0.01	0.01	0.25																
PG00104	68.03	68.73	0.70	0.03	0.03	0.02	6.69	0.02	0.01	0.01	0.25																
PG00105	68.73	69.33	0.60	0.03	0.03	0.01	1.68	0.01	0.01	0.01	0.25																

Espedalen - Conductivity**Hole Number: ES2004-02A**

Depth	Conductivity (Siemens)	COMMENTS
36.60	750.00	Range of 600-950 Siemens
57.05	999.00	1050 siemens - 1750 siemens (cut core) -7cm wide ms veinlet
62.25	750.00	1750 siemens (cut core)
63.10	650.00	1025 siemens (cut core)
64.10	250.00	500 siemens (cut core)
65.70	750.00	1300 siemens (cut core)
66.70	650.00	1500 siemens (cut core)

*Friday, May 20, 2005**ES2004-02A*

Espedalen - Magnetic Susceptibility**Hole Number: ES2004-02A**

DEPTH	MAGNETIC SUSCEPTIBILITY (X 10 ⁻³ SI)	COMMENTS
3.50	0.14	
4.50	0.11	
5.50	0.56	
6.50	0.60	
7.50	0.07	
8.50	0.51	
9.50	0.18	
10.50	0.34	
11.50	0.16	
12.50	0.52	
13.50	0.16	
14.50	0.30	
15.50	0.34	
16.50	0.19	
17.50	2.03	
18.50	0.30	
19.50	0.22	
20.50	0.23	
21.50	0.54	
22.50	0.42	
23.50	0.52	
24.50	0.33	
25.50	0.49	
26.50	0.32	
27.50	1.42	
28.50	0.45	
29.50	1.50	
30.50	0.98	
31.50	0.87	
32.50	1.04	
33.50	0.45	
34.50	0.41	
35.50	0.52	
36.50	1.35	
37.50	0.28	
38.50	13.60	

*Friday, May 20, 2005**ES2004-02A*

Espedalen - Magnetic Susceptibility**Hole Number: ES2004-02A**

39.50	26.60	
40.50	22.80	
41.50	29.70	
42.50	38.50	
43.50	38.60	
44.50	26.90	
45.50	30.70	
46.50	32.00	
47.50	15.10	
48.50	22.20	
49.50	32.00	
50.50	29.40	
51.50	32.80	
52.50	0.87	
53.50	0.41	
54.50	15.90	
55.50	9.19	
56.50	0.33	
57.50	0.78	
58.50	0.49	
59.50	0.17	
60.50	0.27	
61.50	0.67	
62.50	0.46	
63.50	0.67	
64.50	1.34	
65.50	1.71	
66.50	0.65	
67.50	0.75	
68.50	1.05	
69.50	1.00	
70.50	0.36	
71.50	0.68	
72.50	0.37	
73.50	0.27	
74.50	0.28	
75.50	0.34	
76.50	0.61	
77.50	1.26	

*Friday, May 20, 2005**ES2004-02A*

Espedalen - Magnetic Susceptibility**Hole Number: ES2004-02A**

78.50	0.28	
79.50	0.37	
80.50	0.34	
81.50	0.24	
82.50	0.27	
83.50	0.24	
84.50	0.31	
85.50	0.27	
86.50	0.19	
87.50	0.60	
88.50	0.31	
89.50	0.34	
90.50	0.73	
91.50	4.17	
92.50	4.53	
93.40	0.63	

Espedalen - Rock Quality (RQD)**Hole Number: ES2004-02A**

FROM	TO	PERCENT QUALITY	PERCENT CORE	DISKING	COMMENTS
3.00	6.00	11.00	72.00	N	
6.00	9.00	45.00	93.00	N	
9.00	12.00	61.00	78.00	N	
12.00	15.00	54.00	100.00	N	
15.00	18.00	62.00	100.00	N	
18.00	21.00	69.00	95.00	N	
21.00	24.00	33.00	100.00	N	
24.00	27.00	29.00	93.00	N	
27.00	30.00	55.00	100.00	N	
30.00	33.00	70.00	100.00	N	
33.00	36.00	33.00	100.00	N	
36.00	39.00	30.00	100.00	N	
39.00	42.00	70.00	100.00	N	
42.00	45.00	84.00	100.00	N	
45.00	48.00	49.00	100.00	N	
48.00	51.00	53.00	100.00	N	
51.00	54.00	38.00	100.00	N	
54.00	57.00	82.00	100.00	N	
57.00	60.00	62.00	100.00	N	
60.00	63.00	72.00	100.00	N	
63.00	66.00	83.00	100.00	N	
66.00	69.00	73.00	100.00	N	
69.00	72.00	63.00	100.00	N	
72.00	75.00	89.00	100.00	N	
75.00	78.00	80.00	100.00	N	
78.00	81.00	88.00	100.00	N	
81.00	84.00	86.00	100.00	N	
84.00	87.00	67.00	100.00	N	
87.00	90.00	55.00	100.00	N	
90.00	93.40	74.00	100.00	N	EOH at 93.40m

Friday, May 20, 2005

ES2004-02A

Detailed Log

Hole Number: ES2004-03				Units: METRIC			
Project Name: Espedalen		Collar Survey: Y	Plugged: N	<u>UTM WGS 84 Coord</u>		<u>Local Coord</u>	
Project Number: 300		Multishot Survey: N	Hole Size: T246	UTM Northing: 6,807,692.78		Local Northing: 5324.60	
Date Started: 8/10/2004		Pulse EM Survey: N		UTM Easting: 532,792.47		Local Easting: 4999.46	
Date Completed: 9/1/2004		Casing: Left in Hole, capped		Elevation: 1129.08		Core Storage: Strand Fjellstue	
		Location: Surface				Contractor: Geobor-Salag A/S	
						Collar Dip: -59.00	
						Collar Azimuth: 230.00	
						Length: 117.30	
						Logged by: Trevor Blair	
Comments Purpose: Test UTEM conductor ESP_09_07. Conductivity = 600, 900 Siemens (2 plates) Result: Hole intersected a thick package of anorthosite/anorthositic gabbro but did not reach target depth and was abandoned. Second hole was collared and re-drilled nearby as ES2004-16 by second drilling contractor. No samples taken.							
Detailed Lithology				Assay Data			
From	To	Lithology		Sample #	From	To	Length
							Ni %
							Cu %
							Co %
							S %
							Pt g/t
							Pd g/t
							Au g/t
							Ag g/t
0.00	2.90	C Casing					
		CASING					

Detailed Lithology			Assay Data																																																													
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t																																																		
2.90	117.30	4 Anorthosite / Anorthositic Gabbro Medium grained, white-dark green, non-magnetic, moderately to strongly foliated anorthosite to anorthositic gabbro composed of 60% plagioclase and 40% pyroxenes. Segregational banding is present on a cm scale resulting in melanocratic and leucocratic horizons. This unit is unmineralized. Anorthositic rocks are cross-cut by cm to dm scale ultramafic (eg. 63.85-64.1m, 71.9-72.1m, 86.3-86.55m, 87.2-87.7m) and mafic dykes (eg. 49.5-49.9m, 98.1-99.7m (sheared). Ultramafic dykes locally contain po stringers (see minor intervals). 48.9m: 10cm wide white quartz vein; apparently lost water at this depth. 55.6-56.6m: Lost core due to broken drill rod. NOTE: Overall condition of core in this hole is bad with abundant broken, mis-matched and ground core. Condition largely attributed to improper drilling and core barrel emptying techniques. Disking of core likely due to high drilling pressure which also attributes to core blockages. Magnetic susceptibility: < 1 Interpretation: Consistent with Heim's Rock Suite 2a (Anorthosite - Anorthositic Gabbro). <u>Minor Interval</u> 76.60 77.20 6e Ultramafic Schist Dark green, chloritized ultramafic schist containing 3-5% po stringers. Core is badly broken and ground. <u>Minor Interval</u> 78.80 80.35 6e Ultramafic Schist green chloritized ultramafic schist containing 1-2% po stringers. <u>Minor Interval</u> 91.75 92.10 6 Undivided Ultramafic Intrusive Dark grey, serpentinized ultramafic containing 2-3% fracture-controlled po. <table><tr><td><u>Structure</u></td><td>7.35</td><td>7.36</td><td>Sm</td><td>General Foliation</td></tr><tr><td><u>Structure</u></td><td>29.30</td><td>29.31</td><td>Sm</td><td>General Foliation</td></tr><tr><td><u>Structure</u></td><td>38.40</td><td>38.41</td><td>Sm</td><td>General Foliation</td></tr><tr><td><u>Structure</u></td><td>55.30</td><td>55.31</td><td>Sm</td><td>General Foliation</td></tr><tr><td><u>Structure</u></td><td>58.40</td><td>58.41</td><td>Sm</td><td>General Foliation</td></tr><tr><td><u>Structure</u></td><td>71.80</td><td>71.81</td><td>Sm</td><td>General Foliation</td></tr><tr><td><u>Structure</u></td><td>75.20</td><td>75.21</td><td>Sm</td><td>General Foliation</td></tr><tr><td><u>Structure</u></td><td>85.10</td><td>85.11</td><td>Sm</td><td>General Foliation</td></tr><tr><td><u>Structure</u></td><td>89.80</td><td>89.81</td><td>Sm</td><td>General Foliation</td></tr><tr><td><u>Structure</u></td><td>94.00</td><td>94.01</td><td>Sm</td><td>General Foliation</td></tr></table>													<u>Structure</u>	7.35	7.36	Sm	General Foliation	<u>Structure</u>	29.30	29.31	Sm	General Foliation	<u>Structure</u>	38.40	38.41	Sm	General Foliation	<u>Structure</u>	55.30	55.31	Sm	General Foliation	<u>Structure</u>	58.40	58.41	Sm	General Foliation	<u>Structure</u>	71.80	71.81	Sm	General Foliation	<u>Structure</u>	75.20	75.21	Sm	General Foliation	<u>Structure</u>	85.10	85.11	Sm	General Foliation	<u>Structure</u>	89.80	89.81	Sm	General Foliation	<u>Structure</u>	94.00	94.01	Sm	General Foliation
<u>Structure</u>	7.35	7.36	Sm	General Foliation																																																												
<u>Structure</u>	29.30	29.31	Sm	General Foliation																																																												
<u>Structure</u>	38.40	38.41	Sm	General Foliation																																																												
<u>Structure</u>	55.30	55.31	Sm	General Foliation																																																												
<u>Structure</u>	58.40	58.41	Sm	General Foliation																																																												
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<u>Structure</u>	75.20	75.21	Sm	General Foliation																																																												
<u>Structure</u>	85.10	85.11	Sm	General Foliation																																																												
<u>Structure</u>	89.80	89.81	Sm	General Foliation																																																												
<u>Structure</u>	94.00	94.01	Sm	General Foliation																																																												

Detailed Lithology					Assay Data											
From	To	Lithology			Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
		<u>Structure</u>	100.30	100.31	Sm	General Foliation										
		<u>Structure</u>	106.50	106.51	Sm	General Foliation										
		<u>Structure</u>	113.30	113.31	Sm	General Foliation										

Espedalen - Magnetic Susceptibility**Hole Number: ES2004-03**

DEPTH	MAGNETIC SUSCEPTIBILITY (X 10 ⁻³ SI)	COMMENTS
3.50	0.16	0 - 2.9 Casing
4.50	0.22	
5.50	0.22	
6.50	0.40	
7.50	0.20	
8.50	0.27	
9.50	0.18	
10.50	0.22	
11.50	0.27	
12.50	0.22	
13.50	0.25	
14.50	0.20	
15.50	0.20	
16.50	0.22	
17.50	0.16	
18.50	0.20	
19.50	0.20	
20.50	0.19	
21.50	0.24	
22.50	0.34	
23.50	0.29	
24.50	0.21	
25.50	0.22	
26.50	0.21	
27.50	0.22	
28.50	0.11	
29.50	0.19	
30.50	0.20	
31.50	0.67	
32.50	0.21	
33.50	0.66	
34.50	0.26	
35.50	0.32	
36.50	0.15	
37.50	0.26	
38.50	0.37	

*Friday, May 20, 2005**ES2004-03*

Espedalen - Magnetic Susceptibility**Hole Number: ES2004-03**

39.50	0.22	
40.50	0.15	
41.50	0.20	
42.50	0.21	
43.50	0.21	
44.50	0.15	
45.50	0.13	
46.50	0.29	
47.50	0.13	
48.50	0.12	
49.50	0.37	
50.50	0.19	
51.50	0.10	
52.50	0.12	
53.50	0.21	
54.50	0.06	
55.50		no reading
56.50	0.16	
57.50	0.40	
58.50	0.25	
59.50	0.08	
60.50	0.15	
61.50	0.35	
62.50		No Reading?
63.50	0.21	
64.50	0.43	
65.50	0.20	
66.50	0.02	
67.50	0.34	
68.50	0.10	
69.50	0.09	
70.50	0.03	
71.50	0.06	
72.50	0.11	
73.50	0.06	
74.50	0.05	
75.50	0.05	
76.50	0.16	
77.50	0.59	

*Friday, May 20, 2005**ES2004-03*

Espedalen - Magnetic Susceptibility**Hole Number: ES2004-03**

78.50	0.33	
79.50	0.58	
80.50	0.11	
81.50	0.18	
82.50	0.06	
83.50	0.08	
84.50	0.09	
85.50	0.36	
86.50	0.12	
87.50	0.28	
88.50	0.41	
89.50	0.17	
90.50	0.06	
91.50	0.18	
92.50	0.43	
93.50	0.02	
94.50	0.08	
95.50	0.08	
96.50	0.13	
97.50	0.05	
98.50	0.43	
99.50	0.16	
100.50	0.12	
101.50	0.04	
102.50	0.05	
103.50	0.42	
104.50	0.12	
105.50	0.03	
106.50	0.03	
107.50	0.16	
108.50	0.06	
109.50	0.13	
110.50	0.06	
111.50	0.05	
112.50	0.04	
113.50	0.10	
114.50	0.02	
115.50	0.02	
116.50	0.02	117.3 End of Hole

*Friday, May 20, 2005**ES2004-03*

Espedalen - Magnetic Susceptibility

Hole Number: ES2004-03

117.50	
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Espedalen - Rock Quality (RQD)**Hole Number: ES2004-03**

FROM	TO	PERCENT QUALITY	PERCENT CORE	DISKING	COMMENTS
0.00	2.90	0.00	0.00	N	
2.90	6.00	16.00	100.00	N	
6.00	9.00	23.00	100.00	N	
9.00	12.00	60.00	100.00	N	
12.00	15.00	53.00	100.00	N	
15.00	18.00	54.00	100.00	N	
18.00	21.00	43.00	100.00	N	
21.00	24.00	68.00	100.00	N	
24.00	27.00	68.00	100.00	N	
27.00	30.00	67.00	100.00	N	
30.00	33.00	63.00	100.00	N	
33.00	36.00	56.00	100.00	N	
36.00	39.00	73.00	100.00	N	
39.00	42.00	62.00	100.00	N	
42.00	45.00	58.00	100.00	N	
45.00	48.00	57.00	100.00	N	
48.00	51.00	37.00	95.00	N	
51.00	54.00	35.00	90.00	N	
54.00	57.00	19.00	70.00	N	
57.00	60.00	36.00	100.00	N	
60.00	63.00	44.00	100.00	N	
63.00	66.00	50.00	100.00	N	
66.00	69.00	32.00	100.00	N	
69.00	72.00	56.00	100.00	N	
72.00	75.00	26.00	95.00	N	
75.00	78.00	58.00	100.00	N	
78.00	81.00	24.00	100.00	N	
81.00	84.00	29.00	100.00	N	
84.00	87.00	34.00	100.00	N	
87.00	90.00	16.00	100.00	N	
90.00	93.00	13.00	100.00	N	
93.00	96.00	9.00	100.00	N	
96.00	99.00	32.00	100.00	N	
99.00	102.00	49.00	100.00	N	
102.00	105.00	54.00	100.00	N	
105.00	108.00	67.00	100.00	N	
108.00	111.00	64.00	100.00	N	

Friday, May 20, 2005

ES2004-03

Espedalen - Rock Quality (RQD)

Hole Number: ES2004-03

111.00	114.00	45.00	100.00	N	
114.00	117.27	37.00	100.00	N	

Detailed Log

Hole Number: ES2004-04				Units: METRIC			
Project Name: Espedalen		Collar Survey: Y	Plugged: N	<u>UTM WGS 84 Coord</u>		<u>Local Coord</u>	
Project Number: 300		Multishot Survey: N	Hole Size: T246	UTM Northing: 6,807,750.47		Local Northing: 6124.91	
Date Started: 8/18/2204		Pulse EM Survey: N		UTM Easting: 533,788.79		Local Easting: 5595.68	
Date Completed: 9/1/2004		Casing: Left in Hole, capped		Elevation: 1255.41		Core Storage: Strand Fjellstue	
		Location: Surface				Contractor: Geobor-Salag A/S	
						Collar Dip: -75.00	
						Collar Azimuth: 220.00	
						Length: 32.00	
						Logged by: Trevor Blair	

Comments Purpose: Test UTEM conductor ESP_08_05. Conductivity = 300 Siemens

Result: Hole collared in ultramafic rocks but was not completed to target depth and was abandoned. Efforts to pull the rods out of the hole were unsuccessful. Target not tested.

Assays: No samples taken

Detailed Lithology			Assay Data											
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
0.00	4.50	C Casing CASING												
4.50	32.00	6 Undivided Ultramafic Intrusive Medium grained oikocrystic peridotite consisting of 80-85% dark grey to black olivine, 10-20% light grey pyroxene in groundmass and as oikocrysts up to 1.5cm in size, 3% fine grained magnetite and rare trace fine grained sulphide. Reddish brown fine grained (ortho?) pyroxene observed locally. Magnetic susceptibility: 15-65, averages 25-30.												

Espedalen - Rock Quality (RQD)**Hole Number: ES2004-04**

FROM	TO	PERCENT QUALITY	PERCENT CORE	DISKING	COMMENTS
4.50	6.00	25.00	100.00	N	Broken, locally ground
6.00	9.00	49.00	100.00	N	Broken intervals; poor recovery
9.00	12.00	23.00	100.00	N	Badly broken
12.00	15.00	53.00	100.00	N	Broken 13-14.5m
15.00	18.00	72.00	100.00	N	Good run
18.00	21.00	26.00	100.00	N	Broken 18-20
21.00	24.00	70.00	100.00	N	Good run
24.00	27.00	71.00	100.00	N	Good run
27.00	30.00	61.00	100.00	N	Broken 28.7-29
30.00	32.00	42.00	100.00	N	Ground @31.8m; End of Hole @ 32m

Detailed Log

Hole Number: ES2004-05				Units: METRIC										
Project Name: Espedalen Project Number: 300 Date Started: 8/16/2004 Date Completed: 8/18/2004		Collar Survey: Y Plugged: N Multishot Survey: N Hole Size: TT46 Pulse EM Survey: Y Casing: Left in Hole, capped Location: Surface		UTM WGS 84 Coord UTM Northing: 6,805,039.72 Local Northing: 4421.91 UTM Easting: 533,840.27 Local Easting: 7705.33 Elevation: 726.65		Core Storage: Strand Fjellstue Collar Dip: -79.00 Contractor: Geo Drilling A/S Collar Azimuth: 230.00 Length: 119.40 Logged by: Yannick Beaudoin								
Comments Purpose: Test UTEM conductor ESP_15_15. Conductivity = 800 Siemens Result: Hole collared in mineralized peridotite bounded downhole by a fine grained mafic unit in turn followed by anorthosite/anorthositic gabbro. Mineralization in the UM consisted of 5-20% net-textured to disseminated sulphides and minor remobilized veinlets. A narrow zone with increased sulphide content (20-25%) was intersected adjacent to the downhole contact of the ultramafic body. Assays: 0.45% Ni, 0.20% Cu, 0.03% Co / 34.40m (9.60-40.00m) 0.90% Ni, 0.27% Cu, 0.06% Co / 0.75m (53.40-54.15m) Borehole UTEM: In-hole response centered between 20m and 30m. Lithological interpretation: Sheared anorthositic and fine grained mafic country rocks intruded by mineralized ultramafic.														
Detailed Lithology				Assay Data										
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
0.00	9.40	C Casing 0.8 meters of casing core recovered; cased in mineralized peridotite (see Major Units 6b for full description). 10-15% sulphides; visually resembles net textured mineralization; pyrrhotite with trace chalcopyrite; bright flecks in pyrrhotite may be pentlandite	PG00106	8.80	9.60	0.80	0.41	0.09	0.03	4.03	0.02	0.01	0.02	0.60

Detailed Lithology					Assay Data												
From	To	Lithology			Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t	
9.40	54.16	6b Peridotite			PG00107	9.60	10.00	0.40	0.30	0.15	0.02	2.37	0.01	0.01	0.01	0.25	
		Medium to coarse grained, weakly foliated, strongly magnetic, dark grey, moderately serpentinized peridotite with large cm scale sub-hedral to sub-rounded pyroxene oikocrysts. Oikocrysts are light to dark grey and are partially replaced by serpentine and magnetite. Unit is transitional between a 'good' oikocrystic pyroxenite and a 'good' peridotite.			PG00108	10.00	11.00	1.00	0.32	0.11	0.04	2.46	0.01	0.01	0.01	0.25	
		Visually, the unit looks brecciated due to the distribution of the oikocrysts.			PG00109	11.00	12.00	1.00	0.51	0.16	0.04	3.97	0.01	0.01	0.01	0.25	
		Unit is cut by cm to dm scale talc/serpentinite veins.			PG00110	12.00	13.00	1.00	0.77	0.36	0.06	5.39	0.02	0.02	0.03	0.60	
		Between 40m and 45.5m, a more sheared and serpentinized zone is observed. Serpentine/talc veins permeate this zone with some veins containing good concentrations of remobilized chalcopyrite. The general sulphide content of this zone is <5%. This zone marks a notable decrease in sulphide content between the previous portion of the unit and the section beyond the zone.			PG00111	13.00	14.00	1.00	0.56	0.17	0.04	4.20	0.02	0.01	0.01	0.25	
		The lower contact is at 82 degrees relative to the core axis (nearly perpendicular).			PG00112	14.00	15.00	1.00	0.62	0.25	0.05	4.86	0.01	0.02	0.02	0.60	
		Sulphide mineralization throughout the unit averages between 15 and 20%. Visually mineralization appears as net-textured. Pyrrhotite is the dominant sulphide with trace to minor chalcopyrite and what appears to be flecks of pentlandite within the pyrrhotite. Variability in sulphide content is broken down under the 'Mineralization' header.			PG00113	15.00	16.00	1.00	0.33	0.14	0.01	2.50	0.01	0.01	0.02	0.25	
		From 53.3m to 54.16 (end of unit), grain size diminishes and sulphide content increases to between 35-40%.			PG00114	16.00	17.00	1.00	0.37	0.28	0.01	3.24	0.02	0.01	0.03	0.60	
		Interpretation: Consistent with Heim's Rock Suite 2b (Peridotite - Pyroxenite).			PG00115	17.00	18.00	1.00	0.40	0.19	0.02	2.77	0.03	0.01	0.01	0.80	
		Mineralization 9.40 30.00 17.0 % Po Pyrrhotite			PG00116	18.00	19.00	1.00	0.35	0.16	0.01	2.95	0.02	0.01	0.01	0.25	
		NT Net-Textured			PG00117	19.00	20.00	1.00	0.52	0.17	0.03	4.11	0.02	0.01	0.01	0.25	
		15-20%; trace cpy			PG00118	20.00	21.00	1.00	0.58	0.14	0.05	4.25	0.01	0.02	0.01	0.25	
		Mineralization 30.00 39.40 8.0 % Po Pyrrhotite			PG00119	21.00	22.00	1.00	0.51	0.28	0.04	4.37	0.02	0.01	0.02	0.25	
		D Disseminated			PG00120	22.00	23.00	1.00	0.45	0.18	0.04	3.52	0.02	0.02	0.02	0.25	
		looks like net-textured, trace cpy			PG00121	23.00	24.00	1.00	0.64	0.21	0.03	3.45	0.01	0.02	0.05	0.25	
		Mineralization 39.40 53.30 3.0 % Po Pyrrhotite			PG00122	24.00	25.00	1.00	0.44	0.13	0.03	4.39	0.02	0.02	0.02	0.25	
		D Disseminated			PG00123	25.00	26.00	1.00	0.50	0.15	0.03	3.82	0.01	0.01	0.02	8.50	
		35-40%; minor cpy			PG00124	26.00	27.00	1.00	0.53	0.14	0.04	4.18	0.04	0.04	0.01	0.60	
		Mineralization 53.30 54.16 38.0 % Po Pyrrhotite			PG00126	27.00	28.00	1.00	0.58	0.23	0.03	4.49	0.01	0.04	0.02	0.25	
		NT Net-Textured			PG00127	28.00	29.00	1.00	0.58	0.29	0.04	4.34	0.04	0.05	0.02	0.25	
		Alteration 9.60 54.16 TL Talc			PG00128	29.00	30.00	1.00	0.49	0.23	0.03	3.84	0.03	0.01	0.01	0.25	
		V Vein			PG00129	30.00	31.00	1.00	0.44	0.20	0.04	3.42	0.01	0.01	0.01	0.60	
		M Moderate			PG00130	31.00	32.00	1.00	0.42	0.19	0.03	2.89	0.01	0.01	0.02	0.25	
		Structure 39.40 45.50 S Shear			PG00131	32.00	33.00	1.00	0.33	0.16	0.02	2.47	0.01	0.01	0.01	0.25	
					PG00132	33.00	34.00	1.00	0.34	0.17	0.02	2.57	0.02	0.02	0.02	0.25	
					PG00133	34.00	35.00	1.00	0.33	0.24	0.03	2.28	0.01	0.01	0.02	0.60	
					PG00134	35.00	36.00	1.00	0.31	0.12	0.02	2.25	0.01	0.01	0.01	0.25	
					PG00135	36.00	37.00	1.00	0.33	0.12	0.01	2.29	0.01	0.01	0.01	0.25	
					PG00136	37.00	38.00	1.00	0.30	0.14	0.04	2.04	0.01	0.01	0.01	0.25	
					PG00137	38.00	39.00	1.00	0.36	0.14	0.03	2.53	0.01	0.01	0.01	0.25	
					PG00138	39.00	39.40	0.40	0.32	0.12	0.03	2.33	0.02	0.01	0.02	0.25	
					PG00139	39.40	40.00	0.60	0.34	0.24	0.03	2.86	0.01	0.01	0.01	0.60	
					PG00140	40.00	41.00	1.00	0.22	0.10	0.01	1.43	0.01	0.01	0.01	0.60	
					PG00141	41.00	42.00	1.00	0.19	0.10	0.02	1.32	0.01	0.01	0.01	0.25	
					PG00142	42.00	43.00	1.00	0.21	0.07	0.01	1.59	0.01	0.01	0.01	0.25	
					PG00143	43.00	44.00	1.00	0.18	0.16	0.02	1.44	0.01	0.01	0.02	0.50	
					PG00144	44.00	45.00	1.00	0.15	0.06	0.01	0.81	0.01	0.01	0.01	0.25	
					PG00145	45.00	46.00	1.00	0.24	0.12	0.02	1.79	0.01	0.01	0.01	0.25	
					PG00146	46.00	47.00	1.00	0.27	0.10	0.02	1.65	0.01	0.01	0.02	0.25	
					PG00147	47.00	48.00	1.00	0.20	0.08	0.01	1.17	0.01	0.01	0.01	0.25	

Detailed Lithology						Assay Data												
From	To	Lithology				Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t	
		<u>Structure</u>	54.15	54.16	LC	Lower Contact	PG00148	48.00	49.00	1.00	0.17	0.08	0.01	1.08	0.01	0.01	0.01	0.25
							PG00149	49.00	50.00	1.00	0.13	0.03	0.01	0.75	0.01	0.01	0.01	0.25
							PG00151	50.00	51.00	1.00	0.10	0.03	0.02	0.41	0.01	0.01	0.01	0.25
							PG00152	51.00	52.00	1.00	0.23	0.09	0.03	1.46	0.01	0.01	0.02	0.60
							PG00153	52.00	53.40	1.40	0.22	0.12	0.01	1.85	0.01	0.01	0.01	0.25
							PG00154	53.40	54.15	0.75	0.90	0.27	0.06	8.39	0.03	0.01	0.01	0.60
							PG00155	54.15	55.00	0.85	0.23	0.11	0.02	1.22	0.02	0.02	0.01	0.25

Detailed Lithology			Assay Data											
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
54.16	77.58	10a Massive flows	PG00156	65.70	66.20	0.50	0.03	0.03	0.01	0.02	0.01	0.01	0.01	0.25
		Mafic volcanic sequence	PG00157	66.20	67.00	0.80	0.14	0.08	0.01	2.09	0.01	0.01	0.01	0.25
			PG00158	67.00	68.00	1.00	0.11	0.03	0.01	1.17	0.01	0.01	0.01	0.25
		Unit dominated by fine to medium grained, altered (chloritic?) mafic volcanic flows (or sills??).	PG00159	68.00	68.90	0.90	0.10	0.03	0.01	1.29	0.01	0.01	0.01	0.25
			PG00160	68.90	69.90	1.00	0.26	0.11	0.03	0.49	0.01	0.01	0.01	0.25
			PG00161	72.80	73.30	0.50	0.09	0.03	0.01	0.71	0.01	0.01	0.01	0.25
		The upper contact (with the peridotite) is defined by a highly sheared unit that may represent a sheared version of the volcanic, or a volcanoclastic (tuff?) sediment. Core axis to foliation angle is 84 degrees. 1-3% pyrite mineralization is observed as veinlets, disseminated and along fracture planes.	PG00162	73.30	74.00	0.70	0.22	0.07	0.03	3.14	0.01	0.01	0.01	0.25
			PG00163	74.00	74.60	0.60	0.36	0.12	0.02	4.50	0.01	0.01	0.01	0.25
			PG00164	74.60	75.10	0.50	0.11	0.08	0.01	0.47	0.01	0.01	0.01	0.25
		The lower contact is characterized by a unit of thinly layered, deformed (soft sediment deformation??) volcanic sediments. Pyrite occurs along fracture plains, in disseminated form and in veinlets. Lower contact occurs at 55 degrees with respect to core axis.												
		Two separate ultramafic units intruded the volcanic package (see Minor Units).												
		Interpretation: This unit is not consistent with units mapped by Heim. Since this hole was drilled low in the topography of the complex, these units may represent previously unmapped (unexposed elsewhere) units of the Espedalen complex. Alternatively, the rocks of this unit may be part of the country rock outside the Espedalen complex.												
		Minor Interval												
	66.17	68.90	6e Ultramafic Schist											
		Highly sheared, fine grained pyroxenitic unit; variable foliation from near 90 degree to core axis to 60-65 degrees to core axis.												
		Minor mineralization ~5%												
		Moderately magnetic												
		Fault cuts through at 67.5m												
		Minor Interval												
	73.20	74.62	6e Ultramafic Schist											
		Sheared pyroxenitic unit; moderately magnetic.												
		Locally 5-10% mineralization; disseminated and stringer style that give the unit an almost brecciated appearance (locally).												
		Upper contact at ~12 degrees from core axis; lower contact at ~60 degrees to core axis.												
		Structure	77.57	77.58	LC	Lower Contact								

Detailed Lithology			Assay Data											
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
77.58	119.40	4 Anorthosite / Anorthositic Gabbro Anorthosite to anorthositic gabbro (mainly anorthositic gabbro). Medium-coarse to medium grained, mottled texture. Locally sheared/tectonized and sausseritized. Core axis to foliation angle consistently lies between 65 and 75 degrees. Locally, pyrite occurs as veinlets and also fills fracture planes. Some disseminated pyrite is also observed. Interpretation: Unit classification based on observation and correlation with similar units from other drill holes (e.g. ES2004-08, 09). <u>Minor Interval</u> 83.81 86.52 10f Mafic dykes Mafic volcanic/sill Medium grained, non magnetic. Chloritic alteration. Upper and lower contact at 70 degrees to core axis and parallel to foliation in anorthosite. <u>Minor Interval</u> 102.52 107.60 10f Mafic dykes Mafic volcanic/sill Medium grained, non magnetic. Chloritic alteration. Upper and lower contact at 70 degrees to core axis and parallel to foliation in anorthosite. Contacts characterized by 0.5m long zones of altered anorthosite (Major Unit). <u>Minor Interval</u> 113.90 119.40 10f Mafic dykes Mafic volcanic/sill Medium grained, non magnetic. Chloritic alteration. Upper and lower contact at 70 degrees to core axis and parallel to foliation in anorthosite. Contacts characterized by 0.5m long zones of altered anorthosite (Major Unit). The unit is cut off by the end of the hole.												

<u>Detailed Lithology</u>			<u>Assay Data</u>											
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t

Espedalen - Analysis

Hole Number: ES2004-05

Sample Number	From	To	Sample Length	Ni%	Cu%	Co%	S%	Au g/t	Pt g/t	Pd g/t	Ag g/t	Pb%	Zn%	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI%	SUM %
PG00106	8.80	9.60	0.80	0.41	0.09	0.03	4.03	0.02	0.02	0.01	0.60																
PG00107	9.60	10.00	0.40	0.30	0.15	0.02	2.37	0.01	0.01	0.01	0.25																
PG00108	10.00	11.00	1.00	0.32	0.11	0.04	2.46	0.01	0.01	0.01	0.25																
PG00109	11.00	12.00	1.00	0.51	0.16	0.04	3.97	0.01	0.01	0.01	0.25																
PG00110	12.00	13.00	1.00	0.77	0.36	0.06	5.39	0.03	0.02	0.02	0.60																
PG00111	13.00	14.00	1.00	0.56	0.17	0.04	4.20	0.01	0.02	0.01	0.25																
PG00112	14.00	15.00	1.00	0.62	0.25	0.05	4.86	0.02	0.01	0.02	0.60																
PG00113	15.00	16.00	1.00	0.33	0.14	0.01	2.50	0.02	0.01	0.01	0.25																
PG00114	16.00	17.00	1.00	0.37	0.28	0.01	3.24	0.03	0.02	0.01	0.60																
PG00115	17.00	18.00	1.00	0.40	0.19	0.02	2.77	0.01	0.03	0.01	0.80																
PG00116	18.00	19.00	1.00	0.35	0.16	0.01	2.95	0.01	0.02	0.01	0.25																
PG00117	19.00	20.00	1.00	0.52	0.17	0.03	4.11	0.01	0.02	0.01	0.25																
PG00118	20.00	21.00	1.00	0.58	0.14	0.05	4.25	0.01	0.01	0.02	0.25																
PG00119	21.00	22.00	1.00	0.51	0.28	0.04	4.37	0.02	0.02	0.01	0.25																
PG00120	22.00	23.00	1.00	0.45	0.18	0.04	3.52	0.02	0.02	0.02	0.25																
PG00121	23.00	24.00	1.00	0.64	0.21	0.03	3.45	0.05	0.01	0.02	0.25																
PG00122	24.00	25.00	1.00	0.44	0.13	0.03	4.39	0.02	0.02	0.02	0.25																
PG00123	25.00	26.00	1.00	0.50	0.15	0.03	3.82	0.02	0.01	0.01	8.50																
PG00124	26.00	27.00	1.00	0.53	0.14	0.04	4.18	0.01	0.04	0.04	0.60																
PG00126	27.00	28.00	1.00	0.58	0.23	0.03	4.49	0.02	0.01	0.04	0.25																
PG00127	28.00	29.00	1.00	0.58	0.29	0.04	4.34	0.02	0.04	0.05	0.25																
PG00128	29.00	30.00	1.00	0.49	0.23	0.03	3.84	0.01	0.03	0.01	0.25																
PG00129	30.00	31.00	1.00	0.44	0.20	0.04	3.42	0.01	0.01	0.01	0.60																
PG00130	31.00	32.00	1.00	0.42	0.19	0.03	2.89	0.02	0.01	0.01	0.25																
PG00131	32.00	33.00	1.00	0.33	0.16	0.02	2.47	0.01	0.01	0.01	0.25																
PG00132	33.00	34.00	1.00	0.34	0.17	0.02	2.57	0.02	0.02	0.02	0.25																
PG00133	34.00	35.00	1.00	0.33	0.24	0.03	2.28	0.02	0.01	0.01	0.60																
PG00134	35.00	36.00	1.00	0.31	0.12	0.02	2.25	0.01	0.01	0.01	0.25																

Espedalen - Analysis

Hole Number: ES2004-05

Sample Number	From	To	Sample Length	Ni%	Cu%	Co%	S%	Au g/t	Pt g/t	Pd g/t	Ag g/t	Pb%	Zn%	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI%	SUM %
PG00135	36.00	37.00	1.00	0.33	0.12	0.01	2.29	0.01	0.01	0.01	0.25																
PG00136	37.00	38.00	1.00	0.30	0.14	0.04	2.04	0.01	0.01	0.01	0.25																
PG00137	38.00	39.00	1.00	0.36	0.14	0.03	2.53	0.01	0.01	0.01	0.25																
PG00138	39.00	39.40	0.40	0.32	0.12	0.03	2.33	0.02	0.02	0.01	0.25																
PG00139	39.40	40.00	0.60	0.34	0.24	0.03	2.86	0.01	0.01	0.01	0.60																
PG00140	40.00	41.00	1.00	0.22	0.10	0.01	1.43	0.01	0.01	0.01	0.60																
PG00141	41.00	42.00	1.00	0.19	0.10	0.02	1.32	0.01	0.01	0.01	0.25																
PG00142	42.00	43.00	1.00	0.21	0.07	0.01	1.59	0.01	0.01	0.01	0.25																
PG00143	43.00	44.00	1.00	0.18	0.16	0.02	1.44	0.02	0.01	0.01	0.50																
PG00144	44.00	45.00	1.00	0.15	0.06	0.01	0.81	0.01	0.01	0.01	0.25																
PG00145	45.00	46.00	1.00	0.24	0.12	0.02	1.79	0.01	0.01	0.01	0.25																
PG00146	46.00	47.00	1.00	0.27	0.10	0.02	1.65	0.02	0.01	0.01	0.25																
PG00147	47.00	48.00	1.00	0.20	0.08	0.01	1.17	0.01	0.01	0.01	0.25																
PG00148	48.00	49.00	1.00	0.17	0.08	0.01	1.08	0.01	0.01	0.01	0.25																
PG00149	49.00	50.00	1.00	0.13	0.03	0.01	0.75	0.01	0.01	0.01	0.25																
PG00151	50.00	51.00	1.00	0.10	0.03	0.02	0.41	0.01	0.01	0.01	0.25																
PG00152	51.00	52.00	1.00	0.23	0.09	0.03	1.46	0.02	0.01	0.01	0.60																
PG00153	52.00	53.40	1.40	0.22	0.12	0.01	1.85	0.01	0.01	0.01	0.25																
PG00154	53.40	54.15	0.75	0.90	0.27	0.06	8.39	0.01	0.03	0.01	0.60																
PG00155	54.15	55.00	0.85	0.23	0.11	0.02	1.22	0.01	0.02	0.02	0.25																
PG00156	55.70	56.20	0.50	0.03	0.03	0.01	0.02	0.01	0.01	0.01	0.25																
PG00157	56.20	57.00	0.80	0.14	0.08	0.01	2.09	0.01	0.01	0.01	0.25																
PG00158	57.00	58.00	1.00	0.11	0.03	0.01	1.17	0.01	0.01	0.01	0.25																
PG00159	58.00	58.90	0.90	0.10	0.03	0.01	1.29	0.01	0.01	0.01	0.25																
PG00160	58.90	59.90	1.00	0.26	0.11	0.03	0.49	0.01	0.01	0.01	0.25																
PG00161	72.80	73.30	0.50	0.09	0.03	0.01	0.71	0.01	0.01	0.01	0.25																
PG00162	73.30	74.00	0.70	0.22	0.07	0.03	3.14	0.01	0.01	0.01	0.25																
PG00163	74.00	74.60	0.60	0.36	0.12	0.02	4.50	0.01	0.01	0.01	0.25																

Espedalen - Analysis

Hole Number: ES2004-05

Sample Number	From	To	Sample Length	Ni%	Cu%	Co%	S%	Au g/t	Pt g/t	Pd g/t	Ag g/t	Pb%	Zn%	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI%	SUM %
PG00164	74.60	75.10	0.50	0.11	0.08	0.01	0.47	0.01	0.01	0.01	0.25																

Espedalen - Conductivity**Hole Number: ES2004-05**

Depth	Conductivity (Siemens)	COMMENTS
4.20	372.50	cut surface 417.5
6.20	59.90	cut surface 84.36
9.40	22.20	cut surface 24.42
20.30	108.70	cut surface 148.27
23.60	157.60	cut surface 168.7
25.40	88.80	cut surface 119.8
28.50	210.90	cut surface 321.9
29.50	77.70	cut surface 104.3
53.50	195.10	
53.70	108.70	

*Friday, May 20, 2005**ES2004-05*

Espedalen - Magnetic Susceptibility**Hole Number: ES2004-05**

DEPTH	MAGNETIC SUSCEPTIBILITY (X 10 ⁻³ SI)	COMMENTS
9.50	14.90	
9.50		0-9.5m casing
10.50	24.80	
11.50	13.90	
12.50	20.90	
13.50	35.60	
14.50	8.43	
15.50	26.20	
16.50	4.52	
17.50	7.02	
18.50	35.40	
19.50	23.80	
20.50	5.24	
21.50	4.50	
22.50	79.70	
23.50	101.00	
24.50	194.00	
25.50	56.50	
26.50	78.20	
27.50	87.10	
28.50	93.40	
29.50	119.00	
30.50	110.00	
31.50	92.80	
32.50	122.00	
33.50	92.90	
34.50	81.90	
35.50	105.00	
36.50	105.00	
37.50	60.10	
38.50	99.60	
39.50	39.30	
40.50	26.80	
41.50	57.40	
42.50	35.20	
43.50	4.94	

*Friday, May 20, 2005**ES2004-05*

Espedalen - Magnetic Susceptibility**Hole Number: ES2004-05**

44.50	84.70	
45.50	34.60	
46.50	61.70	
47.50	23.50	
48.50	65.30	
49.50	26.00	
50.50	56.90	
51.50	51.80	
52.50	21.60	
53.50	12.00	
54.50	0.32	
55.50	1.08	
56.50	5.49	
57.50	0.78	
58.50	0.37	
59.50	0.34	
60.50	0.62	
61.50	0.38	
62.50	0.40	
63.50	0.39	
64.50	0.52	
65.50	0.11	
66.50	3.87	
67.50	42.50	
68.50	9.40	
69.50	1.00	
70.50	0.30	
71.50	0.38	
72.50	0.41	
73.50	10.40	
74.50	4.39	
75.50	0.92	
76.50	0.64	
77.50	1.59	
78.50	0.30	
79.50	0.17	
80.50	0.37	
81.50	0.26	
82.50	0.18	

*Friday, May 20, 2005**ES2004-05*

Espedalen - Magnetic Susceptibility**Hole Number: ES2004-05**

83.50	0.15	
84.50	0.33	
85.50	0.52	
86.50	0.73	
87.50	0.32	
88.50	0.28	
89.50	0.99	
90.50	0.23	
91.50	0.20	
92.50	0.16	
93.50	0.80	
94.50	0.34	
95.50	0.22	
96.50	0.11	
97.50	0.09	
98.50	0.11	
99.50	0.07	
100.50	0.11	
101.50	0.07	
102.50	0.14	
103.50	0.49	
104.50	0.47	
105.50	0.62	
106.50	0.56	
107.50	0.43	
108.50	0.08	
109.50	0.04	
110.50	0.11	
111.50	0.10	
112.50	0.02	
113.50	0.04	
114.50	0.15	
115.50	0.12	
116.50	0.61	
117.50	0.52	
118.50	0.33	119.4m End of Hole

*Friday, May 20, 2005**ES2004-05*

Espedalen - Rock Quality (RQD)**Hole Number: ES2004-05**

FROM	TO	PERCENT QUALITY	PERCENT CORE	DISKING	COMMENTS
9.40	13.00	72.00	95.00	N	
13.00	16.00	70.00	98.00	N	
16.00	19.00	63.00	98.00	N	
19.00	22.00	68.00	100.00	N	
22.00	25.00	67.00	100.00	N	
25.00	28.00	68.00	100.00	N	
28.00	31.00	78.00	100.00	N	
31.00	34.00	81.00	100.00	N	
34.00	37.00	85.00	100.00	N	
37.00	40.00	86.00	98.00	N	
40.00	43.00	44.00	100.00	N	
43.00	46.00	42.00	100.00	N	
46.00	49.00	76.00	100.00	N	
49.00	52.00	91.00	100.00	N	
52.00	55.00	68.00	100.00	N	
55.00	58.00	69.00	100.00	N	
58.00	61.00	64.00	100.00	N	
61.00	64.00	87.00	100.00	N	
64.00	67.00	58.00	100.00	N	
67.00	70.00	34.00	100.00	N	
70.00	73.00	44.00	100.00	N	
73.00	76.00	39.00	100.00	N	
76.00	79.00	63.00	100.00	N	
79.00	82.00	39.00	98.00	N	
82.00	85.00	28.00	100.00	N	
85.00	88.00	65.00	100.00	N	
88.00	91.00	59.00	100.00	N	
91.00	94.00	72.00	100.00	N	
94.00	97.00	61.00	100.00	N	
97.00	100.00	59.00	100.00	N	
100.00	103.00	47.00	100.00	N	
103.00	106.00	64.00	100.00	N	
106.00	109.00	60.00	100.00	N	
109.00	112.00	48.00	100.00	N	
112.00	115.00	48.00	100.00	N	
115.00	118.00	88.00	100.00	N	
118.00	119.40	40.00	100.00	N	

Friday, May 20, 2005

ES2004-05

Detailed Log

Hole Number: ES2004-06				Units: METRIC			
Project Name: Espedalen	Collar Survey: Y	Plugged: N	<u>UTM WGS 84 Coord</u> UTM Northing: 6,805,105.25 Local Northing: 4454.24 UTM Easting: 533,827.49 Local Easting: 7646.92 Elevation: 727.79		Core Storage: Strand Fjellstue	Collar Dip: -75.00	
Project Number: 300	Multishot Survey: N	Hole Size: TT46			Contractor: Geo Drilling A/S	Collar Azimuth: 229.00	
Date Started: 8/18/2004	Pulse EM Survey: N				Length: 62.40		
Date Completed: 8/19/2004	Casing: Left in Hole, capped				Logged by: Yannick Beaudoin		
	Location: Surface						

Comments Purpose: Follow up mineralization intersected in ES2004-05 and further test UTEM conductor ESP_15_15

Result: Intersected mineralized (5-15% sulphides) ultramafic body from 15.57-46.35m bounded by mafic dykes. Also intersected anorthositic rocks and a dolerite dyke downhole of the ultramafic.

Assays: 0.40% Ni, 0.14% Cu, 0.03% Co / 1.0m (40.00-41.00m) (best).

Lithological interpretation: Anorthositic rocks extensively intruded by mafic to ultramafic dykes and intrusions.

Detailed Lithology				Assay Data											
From	To	Lithology		Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
0.00	14.70	C	Casing												
14.70	15.57	10f	Mafic dykes												
				Fine grained, chloritized mafic volcanic.											
				Cross cut by late, mm scale quartz veins. <1% sulphides.											
				Lower contact, with peridotite unit, is at 60 degrees from the core axis.											
		Alteration	14.70	15.57	CH	Chlorite									
					P	Pervasive									
					M	Moderate									
		Structure	15.56	15.57	LC	Lower Contact									

Detailed Lithology			Assay Data											
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
15.57	46.35	6b Peridotite Medium to coarse grained, weakly foliated, strongly magnetic, dark grey, moderately serpentinized peridotite with large cm scale sub-hedral to sub-rounded pyroxene oikocrysts. Oikocrysts are light to dark grey and are partially replaced by serpentine and magnetite. Unit is transitional between a 'good' oikocrystic pyroxenite and a 'good' peridotite. Unit is cut by cm to dm scale talc/serpentinite veins. The lower contact is at 85 degrees relative to the core axis. From 23.58m to 45.38m, grain size is reduced and a well developed fabric appears. From this point the unit is defined as an ultramafic schist. (See minor unit for description). Unit is strongly magnetic until 23.58m. Sulphide mineralization averages 10-15% from 14.70m to 23.58m (beginning of schist minor unit...see minor description for mineralization in ultramafic schist). Mineralization type is mostly disseminated to somewhat blebby with minor stringers and veinlets. Pyrrhotite is the dominant sulphide with trace to minor chalcopyrite and what appears to be flecks of pentlandite within the pyrrhotite. Interpretation: Consistent with Heim's Rock Suite 2b (Peridotite - Pyroxenite).	PG00165	15.60	17.00	1.40	0.23	0.08	0.01	2.04	0.01	0.01	0.01	0.25
			PG00166	17.00	18.00	1.00	0.23	0.09	0.03	1.56	0.01	0.01	0.01	0.25
			PG00167	18.00	19.00	1.00	0.24	0.06	0.02	1.72	0.01	0.01	0.01	0.25
			PG00168	19.00	20.00	1.00	0.27	0.15	0.02	1.75	0.01	0.01	0.01	0.60
			PG00169	20.00	21.00	1.00	0.27	0.09	0.04	1.75	0.01	0.01	0.01	0.25
			PG00170	21.00	22.00	1.00	0.26	0.09	0.03	1.84	0.01	0.01	0.02	0.25
			PG00171	22.00	23.00	1.00	0.28	0.10	0.02	1.79	0.01	0.01	0.02	0.25
			PG00172	23.00	23.60	0.60	0.23	0.10	0.03	1.72	0.01	0.01	0.01	0.25
			PG00173	23.60	25.00	1.40	0.23	0.12	0.02	1.44	0.01	0.01	0.02	0.60
			PG00174	25.00	26.00	1.00	0.22	0.17	0.01	1.84	0.01	0.01	0.02	0.70
			PG00176	26.00	27.00	1.00	0.23	0.12	0.01	1.80	0.01	0.01	0.02	0.60
			PG00177	27.00	28.00	1.00	0.26	0.19	0.02	1.95	0.01	0.01	0.04	0.90
			PG00178	28.00	29.00	1.00	0.28	0.08	0.01	2.07	0.01	0.01	0.01	0.50
			PG00179	29.00	30.00	1.00	0.24	0.08	0.03	1.48	0.01	0.01	0.01	0.25
			PG00180	30.00	31.00	1.00	0.22	0.07	0.01	1.91	0.01	0.01	0.01	0.25
			PG00181	31.00	32.00	1.00	0.15	0.07	0.01	0.54	0.01	0.01	0.04	0.25
			PG00182	32.00	33.00	1.00	0.25	0.18	0.01	1.50	0.01	0.01	0.01	0.70
			PG00183	33.00	33.70	0.70	0.20	0.08	0.03	0.84	0.01	0.01	0.01	0.25
			PG00184	33.70	35.00	1.30	0.03	0.03	0.01	0.24	0.01	0.01	0.01	0.25
			PG00185	35.00	36.00	1.00	0.03	0.03	0.01	0.34	0.01	0.01	0.02	0.25
			PG00186	36.00	36.50	0.50	0.03	0.03	0.01	0.06	0.01	0.01	0.01	0.25
			PG00187	36.50	38.00	1.50	0.23	0.12	0.02	1.69	0.01	0.01	0.02	0.25
			PG00188	38.00	39.00	1.00	0.25	0.11	0.03	1.88	0.01	0.01	0.01	0.60
			PG00189	39.00	40.00	1.00	0.36	0.19	0.03	2.89	0.01	0.01	0.02	1.00
			PG00190	40.00	41.00	1.00	0.40	0.14	0.03	3.44	0.02	0.01	0.02	0.80
			PG00191	41.00	42.00	1.00	0.25	0.24	0.01	2.14	0.02	0.01	0.05	1.00
			PG00192	42.00	43.00	1.00	0.33	0.12	0.03	2.78	0.01	0.01	0.06	0.80
			PG00193	43.00	44.00	1.00	0.24	0.14	0.02	1.89	0.01	0.01	0.03	0.70
			PG00194	44.00	45.00	1.00	0.18	0.16	0.02	1.21	0.02	0.01	0.02	1.00
			PG00195	45.00	46.30	1.30	0.14	0.10	0.01	0.46	0.01	0.01	0.01	0.80
			PG00196	46.30	47.00	0.70	0.08	0.20	0.01	0.27	0.01	0.01	0.05	1.70
		6e Ultramafic Schist From this point, the oikocrystic peridotite is defined as a schist due to an increase in overall fabric intensity. Grain size is also notably reduced to medium. Within the ultramafic schist portion of the peridotite, a small <4m long mafic volcanic wrth is present. At the contact between the ultramafic schist and the mafic volcanic, brecciation can be seen with angular fragments of the volcanic lying within the ultramafic. Mineraliation within this minor unit averages 5-8% with local pyrrhotite stringers. Trace to minor chalcopyrite can also be seen. Some pentlandite eyes (<1 mm) can be seen within the												

Detailed Lithology					Assay Data											
From	To	Lithology			Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
46.35	49.74	10f Mafic dykes Fine grained, chloritized mafic volcanic. Cross cut by late, mm scale quartz veins, <1% sulphides. Lower contact, with anorthosite is at 45 degrees with respect to core axis. <u>Alteration</u> 46.35 49.74 CH Chlorite 														

Espedalen - Analysis

Hole Number: ES2004-06

Sample Number	From	To	Sample Length	N%	Cu%	Co%	S%	Au g/t	Pt g/t	Pd g/t	Ag g/t	Pb%	Zn%	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI%	SUM %
PG00165	15.60	17.00	1.40	0.23	0.08	0.01	2.04	0.01	0.01	0.01	0.25																
PG00166	17.00	18.00	1.00	0.23	0.09	0.03	1.56	0.01	0.01	0.01	0.25																
PG00167	18.00	19.00	1.00	0.24	0.06	0.02	1.72	0.01	0.01	0.01	0.25																
PG00168	19.00	20.00	1.00	0.27	0.15	0.02	1.75	0.01	0.01	0.01	0.60																
PG00169	20.00	21.00	1.00	0.27	0.09	0.04	1.75	0.01	0.01	0.01	0.25																
PG00170	21.00	22.00	1.00	0.26	0.09	0.03	1.84	0.02	0.01	0.01	0.25																
PG00171	22.00	23.00	1.00	0.28	0.10	0.02	1.79	0.02	0.01	0.01	0.25																
PG00172	23.00	23.60	0.60	0.23	0.10	0.03	1.72	0.01	0.01	0.01	0.25																
PG00173	23.60	25.00	1.40	0.23	0.12	0.02	1.44	0.02	0.01	0.01	0.60																
PG00174	25.00	26.00	1.00	0.22	0.17	0.01	1.84	0.02	0.01	0.01	0.70																
PG00176	26.00	27.00	1.00	0.23	0.12	0.01	1.80	0.02	0.01	0.01	0.60																
PG00177	27.00	28.00	1.00	0.26	0.19	0.02	1.95	0.04	0.01	0.01	0.90																
PG00178	28.00	29.00	1.00	0.28	0.08	0.01	2.07	0.01	0.01	0.01	0.50																
PG00179	29.00	30.00	1.00	0.24	0.08	0.03	1.48	0.01	0.01	0.01	0.25																
PG00180	30.00	31.00	1.00	0.22	0.07	0.01	1.91	0.01	0.01	0.01	0.25																
PG00181	31.00	32.00	1.00	0.15	0.07	0.01	0.54	0.04	0.01	0.01	0.25																
PG00182	32.00	33.00	1.00	0.25	0.18	0.01	1.50	0.01	0.01	0.01	0.70																
PG00183	33.00	33.70	0.70	0.20	0.08	0.03	0.84	0.01	0.01	0.01	0.25																
PG00184	33.70	35.00	1.30	0.03	0.03	0.01	0.24	0.01	0.01	0.01	0.25																
PG00185	35.00	36.00	1.00	0.03	0.03	0.01	0.34	0.02	0.01	0.01	0.25																
PG00186	36.00	36.50	0.50	0.03	0.03	0.01	0.06	0.01	0.01	0.01	0.25																
PG00187	36.50	38.00	1.50	0.23	0.12	0.02	1.69	0.02	0.01	0.01	0.25																
PG00188	38.00	39.00	1.00	0.25	0.11	0.03	1.88	0.01	0.01	0.01	0.60																
PG00189	39.00	40.00	1.00	0.36	0.19	0.03	2.89	0.02	0.01	0.01	1.00																
PG00190	40.00	41.00	1.00	0.40	0.14	0.03	3.44	0.02	0.02	0.01	0.80																
PG00191	41.00	42.00	1.00	0.25	0.24	0.01	2.14	0.05	0.02	0.01	1.00																
PG00192	42.00	43.00	1.00	0.33	0.12	0.03	2.78	0.06	0.01	0.01	0.80																
PG00193	43.00	44.00	1.00	0.24	0.14	0.02	1.89	0.03	0.01	0.01	0.70																

Espedalen - Analysis**Hole Number: ES2004-06**

Sample Number	From	To	Sample Length	Ni%	Cu%	Co%	S%	Au g/t	Pt g/t	Pd g/t	Ag g/t	Pb%	Zn%	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI%	SUM %
PG00194	44.00	45.00	1.00	0.18	0.16	0.02	1.21	0.02	0.02	0.01	1.00																
PG00195	45.00	46.30	1.30	0.14	0.10	0.01	0.46	0.01	0.01	0.01	0.80																
PG00196	46.30	47.00	0.70	0.08	0.20	0.01	0.27	0.05	0.01	0.01	1.70																

Espedalen - Conductivity**Hole Number: ES2004-06**

Depth	Conductivity (Siemens)	COMMENTS
16.40	42.20	
17.60	40.00	
18.45	51.10	
18.80	44.40	
19.50	57.70	
19.80	53.10	

Espedalen - Magnetic Susceptibility**Hole Number: ES2004-06**

DEPTH	MAGNETIC SUSCEPTIBILITY (X 10 ⁻³ SI)	COMMENTS
15.50	0.45	
16.50	77.70	
17.50	91.50	
18.50	89.10	
19.50	100.00	
20.50	58.60	
21.50	70.70	
22.50	72.70	
23.50	48.40	
24.50	1.18	
25.50	8.37	
26.50	6.08	
27.50	4.23	
28.50	0.97	
29.50	0.88	
30.50	2.16	
31.50	0.42	
32.50	1.51	
33.50	0.46	
34.50	0.47	
35.50	0.40	
36.50	0.35	
37.50	10.30	
38.50	9.04	
39.50	22.00	
40.50	17.70	
41.50	8.96	
42.50	6.34	
43.50	4.19	
44.50	1.00	
45.50	0.88	
46.50	0.49	
47.50	0.43	
48.50	0.79	
49.50	1.23	
50.50	0.03	

*Friday, May 20, 2005**ES2004-06*

Espedalen - Magnetic Susceptibility

Hole Number: ES2004-06

51.50	0.10	
52.50	0.12	
53.50	0.10	
54.50	0.04	
55.50	0.09	
56.50	0.11	
57.50	0.13	
58.50	0.21	
59.50	0.14	
60.50	0.14	
61.50	2.65	

Espedalen - Rock Quality (RQD)**Hole Number: ES2004-06**

FROM	TO	PERCENT QUALITY	PERCENT CORE	DISKING	COMMENTS
14.70	18.00	59.00	100.00	N	
18.00	21.00	67.00	100.00	N	
21.00	24.00	46.00	100.00	N	
24.00	27.00	54.00	100.00	N	
27.00	30.00	65.00	100.00	N	
30.00	33.00	78.00	100.00	N	
33.00	36.00	81.00	100.00	N	
36.00	39.00	56.00	100.00	N	
39.00	42.00	38.00	100.00	N	
42.00	45.00	61.00	100.00	N	
45.00	48.00	32.00	100.00	N	
48.00	51.00	61.00	100.00	N	
51.00	54.00	78.00	100.00	N	
54.00	57.00	63.00	100.00	N	
57.00	60.00	73.00	100.00	N	
60.00	62.40	70.00	100.00	N	62.4m End of Hole

*Friday, May 20, 2005**ES2004-06*

Detailed Log

Hole Number: ES2004-07				Units: METRIC			
Project Name: Espedalen		Collar Survey: Y Plugged: N		UTM WGS 84 Coord		Local Coord	
Project Number: 300		Multishot Survey: N Hole Size: TT46		UTM Northing: 6,805,141.94		Local Northing: 4460.12	
Date Started: 8/20/2004		Pulse EM Survey: Y		UTM Easting: 533,804.38		Local Easting: 7603.96	
Date Completed: 8/22/2004		Casing: Left in Hole, capped		Elevation: 731.74			
		Location: Surface					
Core Storage: Strand Fjellstue				Collar Dip: -75.00			
Contractor: Geo Drilling A/S				Collar Azimuth: 231.00			
				Length: 72.40			
Logged by: Yannick Beaudoin							

Comments	
Purpose: Follow up on mineralization intersected in ES2004-05 and further test UTEM conductor ESP_15_15. Result: Intersected mineralized pyroxenite between 18.30-39.40m containing 5-15% sulphides as disseminations, blebs and stringers. Ultramafic is bounded uphole and downhole by anorthosite/anorthositic gabbro. Assays: 0.19% Ni, 0.16% Cu, 0.01% Co / 1.0m (20.00-21.00m) (best) Borehole UTEM: off-hole response centered @ 40m, situated approximately 20m away from hole. Lithological interpretation: Anorthositic rocks intruded by a mineralized pyroxenite.	

Detailed Lithology			Assay Data											
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
0.00	16.20	C Casing												
16.20	18.30	4 Anorthosite / Anorthositic Gabbro	PG00197	17.80	18.30	0.50	0.03	0.03	0.01	0.02	0.01	0.01	0.01	0.25
Anorthosite to anorthositic gabbro (mainly anorthositic gabbro). Medium-coarse to medium grained, mottled texture. Locally sheared/tectonized and sausseritized. Unit is cross cut by epidote-chlorite veins. Minor chlorite and epidote can be seen locally in the matrix. No mineralization is present. Unit is not magnetic. Interpretation: Unit classification based on observation and correlation with similar units from other drill holes (e.g. ES2004-08, 09).														

Detailed Lithology					Assay Data											
From	To	Lithology			Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
18.30	39.40	6d Pyroxenite			PG00198	18.30	20.00	1.70	0.17	0.12	0.01	1.42	0.01	0.01	0.01	0.25
		Medium to locally fine grained pyroxenite. Moderately magnetic to locally highly magnetic patches. Pervasive talc/serpentinite alteration gives bands of the unit a melano-noritic appearance. No visible oikocrysts (in reference to description for ES2004-05 and ES2004-06). Mineralization is variable with 5-10% sulphides from 18.2m to 34.30m and 10-15% from 34.30m to 39.00m. Mineralization is generally disseminated with blebs and stringers. Pyrrhotite is the main sulphide with bright flecks of pentlandite visible. Minor chalcopyrite is also visible in association with the pyrrhotite. Cm scale talc/serpentinite veins cross cut the entire unit. Fragments of anorthosite are observed in the ultramafic in proximity to the upper contact. Upper contact is at 65 degrees to the core axis. Lower contact is near 90 degrees to core axis angle. Interpretation: Consistent with Heim's Rock Suite 2b (Peridotite - Pyroxenite). Mineralization 18.30 34.30 8.0 % Po Pyrrhotite D Disseminated local stringers and blebs; minor cpy and			PG00199	20.00	21.00	1.00	0.19	0.16	0.01	1.85	0.02	0.01	0.02	0.25
					PG00201	21.00	22.00	1.00	0.11	0.07	0.01	1.09	0.01	0.01	0.01	0.25
					PG00202	22.00	23.00	1.00	0.11	0.09	0.01	1.00	0.01	0.01	0.01	0.25
					PG00203	23.00	24.00	1.00	0.09	0.08	0.01	0.68	0.02	0.01	0.01	0.25
					PG00204	24.00	25.00	1.00	0.08	0.03	0.01	0.66	0.01	0.01	0.01	0.25
					PG00206	25.00	26.00	1.00	0.08	0.07	0.01	0.77	0.01	0.01	0.02	0.60
					PG00207	26.00	27.00	1.00	0.06	0.03	0.01	0.44	0.01	0.01	0.01	0.25
					PG00208	27.00	28.00	1.00	0.06	0.03	0.01	0.47	0.02	0.01	0.01	0.25
					PG00209	28.00	29.00	1.00	0.07	0.03	0.01	0.62	0.01	0.01	0.01	0.25
					PG00210	29.00	30.00	1.00	0.07	0.05	0.01	0.59	0.01	0.01	0.01	0.25
					PG00211	30.00	31.00	1.00	0.14	0.05	0.01	1.22	0.01	0.01	0.01	0.25
					PG00212	31.00	32.00	1.00	0.16	0.07	0.03	1.47	0.01	0.01	0.01	0.25
					PG00213	32.00	33.00	1.00	0.11	0.06	0.02	1.10	0.01	0.01	0.01	0.25
					PG00214	33.00	34.00	1.00	0.15	0.03	0.01	1.38	0.01	0.01	0.01	0.25
					PG00215	34.00	35.00	1.00	0.19	0.06	0.01	1.69	0.01	0.01	0.01	0.25
					PG00216	35.00	36.00	1.00	0.16	0.09	0.01	1.21	0.01	0.01	0.01	0.50
					PG00217	36.00	37.00	1.00	0.17	0.11	0.01	1.45	0.01	0.01	0.01	0.25
					PG00218	37.00	38.00	1.00	0.16	0.11	0.02	1.46	0.01	0.01	0.01	0.25
					PG00219	38.00	39.40	1.40	0.18	0.07	0.01	1.54	0.01	0.01	0.01	0.25

Detailed Lithology			Assay Data											
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
39.40	72.40	4 Anorthosite / Anorthositic Gabbro Anorthosite to anorthositic gabbro (mainly anorthositic gabbro). Medium-coarse to medium grained, mottled texture. Locally sheared/tectonized and sausseritized. Intruded by mineralized ultramafic (pyroxenite) dykes as well as mafic dykes (see Minor Unit for descriptions). 56.6-56.85m: narrow peridotitic UM with 2% sulphides (not sampled). Upper contact at near 90 degrees to core axis angle. Interpretation: Unit classification based on observation and correlation with similar units from other drill holes (e.g. ES2004-08, 09).	PG00220	39.40	40.00	0.60	0.03	0.03	0.01	0.04	0.02	0.01	0.01	0.25
			PG00221	42.60	43.10	0.50	0.03	0.03	0.01	0.01	0.01	0.01	0.01	0.25
			PG00223	43.90	44.40	0.50	0.03	0.03	0.01	0.06	0.01	0.01	0.01	0.25
<u>Minor Interval</u>														
	43.10	43.90	6d Pyroxenite Medium grained, non oikocrystic pyroxenite. Relatively unaltered (with respect to talc/serpentinite alteration in major unit 6d from 18.30m to 39.40m). Moderately developed fabric at ~65 degrees to core axis angle. Mineralization consists of 10-15% disseminated to locally stringer sulphides. Pyrrhotite is the main sulphide with visible bright flecks of pentlandite. Minor chalcopyrite is seen in association with the pyrrhotite. Upper contact is 85 degrees to core axis angle. Lower contact is at 75 degrees to core axis angle...marked by a cm scale talc/serpentinite vein. Interpretation: Consistent with Heim's Rock Suite 2b (Peridotite - Pyroxenite).											
<u>Minor Interval</u>														
	63.20	64.35	10f Mafic dykes Fine grained mafic volcanic/dyke. Chloritized. Non magnetic and non mineralized. Upper contact at ~10 degrees from core axis angle. Intruded anorthosites are altered for about 0.5m ahead of contact. Lower contact at ~45 degrees to core axis angle. Intruded anorthosites are altered for about 0.20m below contact											

Detailed Lithology			Assay Data											
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
<u>Minor Interval</u>														
64.70	65.70	10f Mafic dykes												
		Fine grained mafic volcanic/dyke. Chloritized. Non magnetic and non mineralized.												
		Upper contact at ~45 degrees from core axis angle. Intruded anorthosites are altered for about 0.2m ahead of contact.												
		Lower contact at ~70 degrees to core axis angle. Intruded anorthosites are altered for about 1.6m below contact												
<u>Minor Interval</u>														
67.30	68.50	10f Mafic dykes												
		Fine grained mafic volcanic/dyke. Chloritized. Non magnetic and non mineralized.												
		Upper contact at ~45 degrees from core axis angle. Intruded anorthosites are altered for about 1.6m ahead of contact.												
		Lower contact near parallel to core axis angle. Intruded anorthosites are altered for about 1.5m below contact												

Espedalen - Analysis

Hole Number: ES2004-07

Sample Number	From	To	Sample Length	Nr%	Cu%	Co%	S%	Au g/t	Pt g/t	Pd g/t	Ag g/t	Pb%	Zn%	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI%	SUM %
PG00197	17.80	18.30	0.50	0.03	0.03	0.01	0.02	0.01	0.01	0.01	0.25																
PG00198	18.30	20.00	1.70	0.17	0.12	0.01	1.42	0.01	0.01	0.01	0.25																
PG00199	20.00	21.00	1.00	0.19	0.16	0.01	1.85	0.02	0.02	0.01	0.25																
PG00201	21.00	22.00	1.00	0.11	0.07	0.01	1.09	0.01	0.01	0.01	0.25																
PG00202	22.00	23.00	1.00	0.11	0.09	0.01	1.00	0.01	0.01	0.01	0.25																
PG00203	23.00	24.00	1.00	0.09	0.08	0.01	0.68	0.01	0.02	0.01	0.25																
PG00204	24.00	25.00	1.00	0.08	0.03	0.01	0.66	0.01	0.01	0.01	0.25																
PG00206	25.00	26.00	1.00	0.08	0.07	0.01	0.77	0.02	0.01	0.01	0.60																
PG00207	26.00	27.00	1.00	0.06	0.03	0.01	0.44	0.01	0.01	0.01	0.25																
PG00208	27.00	28.00	1.00	0.06	0.03	0.01	0.47	0.01	0.02	0.01	0.25																
PG00209	28.00	29.00	1.00	0.07	0.03	0.01	0.62	0.01	0.01	0.01	0.25																
PG00210	29.00	30.00	1.00	0.07	0.05	0.01	0.59	0.01	0.01	0.01	0.25																
PG00211	30.00	31.00	1.00	0.14	0.05	0.01	1.22	0.01	0.01	0.01	0.25																
PG00212	31.00	32.00	1.00	0.16	0.07	0.03	1.47	0.01	0.01	0.01	0.25																
PG00213	32.00	33.00	1.00	0.11	0.06	0.02	1.10	0.01	0.01	0.01	0.25																
PG00214	33.00	34.00	1.00	0.15	0.03	0.01	1.38	0.01	0.01	0.01	0.25																
PG00215	34.00	35.00	1.00	0.19	0.06	0.01	1.69	0.01	0.01	0.01	0.25																
PG00216	35.00	36.00	1.00	0.16	0.09	0.01	1.21	0.01	0.01	0.01	0.50																
PG00217	36.00	37.00	1.00	0.17	0.11	0.01	1.45	0.01	0.01	0.01	0.25																
PG00218	37.00	38.00	1.00	0.16	0.11	0.02	1.46	0.01	0.01	0.01	0.25																
PG00219	38.00	39.40	1.40	0.18	0.07	0.01	1.54	0.01	0.01	0.01	0.25																
PG00220	39.40	40.00	0.60	0.03	0.03	0.01	0.04	0.01	0.02	0.01	0.25																
PG00221	42.60	43.10	0.50	0.03	0.03	0.01	0.01	0.01	0.01	0.01	0.25																
PG00222	43.10	43.90	0.80	0.18	0.08	0.01	1.45	0.01	0.01	0.01	0.25																
PG00223	43.90	44.40	0.50	0.03	0.03	0.01	0.06	0.01	0.01	0.01	0.25																

Espedalen - Conductivity**Hole Number: ES2004-07**

Depth	Conductivity (Siemens)	COMMENTS
43.20	24.40	small mineralized ultramafic dyke 43.10m-43.90m
43.45	24.00	
43.70	31.10	
44.15	22.20	

*Friday, May 20, 2005**ES2004-07*

Espedalen - Magnetic Susceptibility**Hole Number: ES2004-07**

DEPTH	MAGNETIC SUSCEPTIBILITY (X 10 ⁻³ SI)	COMMENTS
16.50	0.42	
17.50	0.05	
18.50	3.30	
19.50	4.92	
20.50	2.72	
21.50	6.26	
22.50	20.20	
23.50	2.00	
24.50	7.99	
25.50	16.40	
26.50	3.10	
27.50	7.88	
28.50	4.90	
29.50	3.13	
30.50	0.39	
31.50	3.37	
32.50	6.60	
33.50	3.86	
34.50	17.20	
35.50	16.00	
36.50	15.30	
37.50	25.60	
38.50	30.10	
39.50	0.25	
40.50	0.15	
41.50	0.08	
42.50	0.11	
43.50	1.88	
44.50	0.25	
45.50	0.28	
46.50	0.19	
47.50	0.06	
48.50	0.10	
49.50	0.21	
50.50	0.09	
51.50	0.17	

*Friday, May 20, 2005**ES2004-07*

Espedalen - Magnetic Susceptibility**Hole Number: ES2004-07**

52.50	0.36	
53.50	0.18	
54.50	0.07	
55.50	0.20	
56.50	0.13	
57.50	0.11	
58.50	0.11	
59.50	0.08	
60.50	0.16	
61.50	0.10	
62.50	0.16	
63.50	0.26	
64.50	0.09	
65.50	0.74	
66.50	0.17	
67.50	0.29	
68.50	0.11	
69.50	0.08	
70.50	0.44	
71.50	0.13	

Espedalen - Rock Quality (RQD)**Hole Number: ES2004-07**

FROM	TO	PERCENT QUALITY	PERCENT CORE	DISKING	COMMENTS
16.20	19.00	20.00	98.00	N	
19.00	22.00	30.00	100.00	N	
22.00	25.00	48.00	100.00	N	
25.00	28.00	50.00	100.00	N	
28.00	31.00	58.00	100.00	N	
31.00	34.00	68.00	100.00	N	
34.00	37.00	47.00	100.00	N	
37.00	40.00	66.00	100.00	N	
40.00	43.00	61.00	100.00	N	
43.00	46.00	50.00	100.00	N	
46.00	49.00	44.00	100.00	N	
49.00	52.00	70.00	100.00	N	
52.00	55.00	75.00	100.00	N	
55.00	58.00	43.00	100.00	N	
58.00	61.00	77.00	100.00	N	
61.00	64.00	65.00	98.00	N	
64.00	67.00	56.00	100.00	N	
67.00	70.00	45.00	100.00	N	
70.00	72.40	46.00	100.00	N	72.4m End of Hole

*Friday, May 20, 2005**ES2004-07*

Detailed Log

Hole Number: **ES2004-08**

Units: METRIC

Project Name: Espedalen Collar Survey: Y Plugged: N
 Project Number: 300 Multishot Survey: Y Hole Size: TT46
 Date Started: 8/24/2004 Pulse EM Survey: Y
 Date Completed: 8/26/2004 Casing: Left in Hole, capped
 Location: Surface

UTM WGS 84 Coord Local Coord
 UTM Northing: 6,801,300.03 Local Northing: 3005.43
 UTM Easting: 535,129.16 Local Easting: 1398.59
 Elevation: 970.74

Core Storage: Strand Fjellstue Collar Dip: -43.95
 Contractor: Geo Drilling A/S Collar Azimuth: 234.75
 Length: 85.30
 Logged by: Yannick Beaudoin/P. Tirschmann

Comments Purpose: Test UTEM conductor ESP_17_17. Conductivity = 500 Siemens

Result: Intersected sausseritized and tecontonized anorthosite intruded by a narrow, schistose, mineralized ultramafic body from 56.25-59.00m. mineralization consists of 10-45% sulphide (po-pn-cp-py) stringers, veinlets and disseminations.

Assays: 2.07% Ni, 1.20% Cu, 0.07% Co / 2.70m (56.30-59.00m)

Borehole UTEM: Symmetric in-hole response centered on 60m, correlates with intersected mineralization.

Lithological interpretation: Mineralized ultramafic dyke (?) intruding anorthositic rocks; all units subsequently tectonized.

Detailed Lithology

From	To	Lithology
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Assay Data

Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
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0.00	3.55	C Casing
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Detailed Lithology				Assay Data											
From	To	Lithology		Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
3.55	56.25	4s	Sauseritized/Tectonized Anorthosite	PG03109	52.00	52.85	0.85	0.03	0.03	0.01	0.50	0.01	0.01	0.01	0.25
			Medium grained, well foliated, banded sausseritized and tectonized anorthosite. Unit is cross cut by mm to cm scale foliation parallel quartz veins.	PG03110	52.85	54.00	1.15	0.51	0.30	0.03	2.64	0.01	0.01	0.01	0.25
				PG03111	54.00	55.00	1.00	0.03	0.03	0.01	0.02	0.02	0.01	0.01	0.25
				PG03112	55.00	55.80	0.80	0.03	0.03	0.01	0.02	0.01	0.01	0.01	0.25
			Dm to m scale mafic dykes intrude the unit (see Minor Units).	PG00224	55.80	56.30	0.50	0.22	0.08	0.01	0.91	0.02	0.01	0.01	0.25
			Mineralization: Minor disseminated pyrite can be seen throughout. From 53.8m to 56.25m, patchy stringers of po, py mineralization (<3%) can be seen (related to the mineralized mafic unit below).												
			Trace amounts of very bright green mineral (mica, fuchsite or chloritoid?) observed (eg. 48.8m).												
			Foliation is between 65-85 degrees to core axis.												
			<u>Minor Interval</u>												
		36.00	39.50	10f	Mafic dykes										
			Unmineralized, fine-medium grained mafic dyke/flow												
			Upper contact near perpendicular to core axis. Lower contact ~75 degrees to core axis.												
			Fragments of anorthosite observed especially in the vicinity of the contacts.												
			<u>Minor Interval</u>												
		51.50	53.00	6	Undivided Ultramafic Intrusive										
			Ultramafic schist containing po stringers up to 1.5cm in width. Upper and lower contacts near perpendicular to core axis.												
		<u>Mineralization</u>	52.85	54.00	4.0 %	Po	Pyrrhotite								
						STR	Stringers								
							3-5% po stringers								
		<u>Structure</u>	14.40	14.41	Sm	General Foliation									
		<u>Structure</u>	41.50	41.51	Sm	General Foliation									
		<u>Structure</u>	54.50	54.51	Sm	General Foliation									

Detailed Lithology				Assay Data											
From	To	Lithology		Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
56.25	59.00	6e Ultramafic Schist		PG00226	56.30	57.00	0.70	0.79	0.72	0.03	3.51	0.02	0.03	0.01	0.70
		Fine to medium grained, dark green, schistose and highly altered (chlorite or talc/serpentinite), ultramafic or mafic intrusive unit. No quartz and visible feldspar although the latter may be completely altered and no longer recognizable. Secondary biotite (alteration of amphiboles?) is pervasive. Unit is very soft and can easily be scratched with a finger nail. Fragments of anorthosite are observed especially in the vicinity of the upper and lower contacts. Angular quartz fragment observed near upper contact.		PG00227	57.00	58.00	1.00	3.32	2.01	0.12	15.00	0.05	0.06	0.01	1.60
		Mineralization: 20-25% sulphides over the length, 35-40% between 57m and 58m. Sulphides are 70% pyrrhotite, 5% pyrite and 25% chalcopyrite. Bright flecks within pyrrhotite may represent presence of pentlandite. Mineralization occurs as stringers and veinlets, and also as disseminated sulphide. From 58m to 59m, the presence of unmineralized anorthosite fragments reduces the overall sulphide content.		PG00228	58.00	58.50	0.50	1.80	0.76	0.05	10.20	0.04	0.05	0.04	0.60
		Unit is moderately to strongly magnetic throughout; unmineralized portions are non magnetic.		PG00229	58.50	59.00	0.50	1.65	0.69	0.07	9.31	0.04	0.04	0.01	0.60
		Foliation within unit is perpendicular to core axis.													
		Lower contact is ~ 70-75 degrees to core axis. Upper contact angle cannot be determined due to missing core piece.													
		Interpretation: Though well mineralized, this unit does not bare a strong resemblance to the ultramafic units seen in previous holes (maybe simply because of the strong alteration). The mineralization most likely consists of remobilized sulphides.													
		Mineralization	56.25 57.00 23.0 %	Po Pyrrhotite STR Stringers with 25% cp and 5% py and 70% po											
		Mineralization	57.00 58.00 38.0 %	Po Pyrrhotite STR Stringers with 25% cp and 5% py and 70% po											
		Mineralization	58.00 59.00 10.0 %	Po Pyrrhotite STR Stringers less due to anorthosite fragments											
		Alteration	56.25 59.00	BI Biotite PT Patchy M Moderate											
		Alteration	56.25 59.00	CH Chlorite P Pervasive S Strong											
		Structure	56.25 59.00	Sm General Foliation											
		Structure	58.99 59.00	LC Lower Contact											

Detailed Lithology					Assay Data											
From	To	Lithology			Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
59.00	85.30	4s Sausseritized/Tectonized Anorthosite			PG00230	59.00	59.50	0.50	0.41	0.22	0.03	1.26	0.01	0.03	0.01	0.25
		Medium grained, well foliated, banded, altered and tectonized anorthosite. Trace amounts of bright green mineral present (musc, fuchsite or chloritoid?). Trace cp-po-py in fractures at 60.35m.			PG03113	59.50	60.40	0.90	0.13	0.06	0.01	0.37	0.02	0.01	0.01	0.25
		Hematization observed from 60.45m to 63.4.														
		<u>Minor Interval</u>														
	70.10	70.50	4s Sausseritized/Tectonized Anorthosite													
			Fine grained, chloritized, banded (layers?) anorthosite. Minor pyrite mineralization.													
			Upper contact is at 45 degrees to core axis.													
			Lower contact is at 80 degrees to core axis.													
		<u>Minor Interval</u>														
	79.00	84.00	10f Mafic dykes													
			Unmineralized, fine-medium grained mafic dyke/flow.													
			Upper contact near perpendicular to core axis.													
<u>Alteration</u>	60.45	63.40	HM	Hematite												
			P	Pervasive												
			M	Moderate												
				also another type of unrecognized alteration. Yellow green alteration (epidote?).												
<u>Structure</u>	65.00	65.01	Sm	General Foliation												
<u>Structure</u>	84.10	84.11	Sm	General Foliation												

Espedalen - Analysis**Hole Number: ES2004-08**

Sample Number	From	To	Sample Length	Ni%	Cu%	Co%	S%	Au g/t	Pt g/t	Pd g/t	Ag g/t	Pb%	Zn%	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI%	SUM %
PG03109	52.00	52.85	0.85	0.03	0.03	0.01	0.50	0.01	0.01	0.01	0.25																
PG03110	52.85	54.00	1.15	0.51	0.30	0.03	2.64	0.01	0.01	0.01	0.25																
PG03111	54.00	55.00	1.00	0.03	0.03	0.01	0.02	0.01	0.02	0.01	0.25																
PG03112	55.00	55.80	0.80	0.03	0.03	0.01	0.02	0.01	0.01	0.01	0.25																
PG00224	55.80	56.30	0.50	0.22	0.08	0.01	0.91	0.01	0.02	0.01	0.25																
PG00226	56.30	57.00	0.70	0.79	0.72	0.03	3.51	0.01	0.02	0.03	0.70																
PG00227	57.00	58.00	1.00	3.32	2.01	0.12	15.00	0.01	0.05	0.06	1.60																
PG00228	58.00	58.50	0.50	1.80	0.76	0.05	10.20	0.04	0.04	0.05	0.60																
PG00229	58.50	59.00	0.50	1.65	0.69	0.07	9.31	0.01	0.04	0.04	0.60																
PG00230	59.00	59.50	0.50	0.41	0.22	0.03	1.26	0.01	0.01	0.03	0.25																
PG03113	59.50	60.40	0.90	0.13	0.06	0.01	0.37	0.01	0.02	0.01	0.25																

Espedalen - Conductivity**Hole Number: ES2004-08**

Depth	Conductivity (Siemens)	COMMENTS
56.90	64.40	
57.10	68.80	
57.40	253.80	
57.60	415.40	
57.90	999.00	1078.2
58.30	950.10	
58.50	146.10	
58.90	999.00	1878.3

Espedalen - Magnetic Susceptibility**Hole Number: ES2004-08**

DEPTH	MAGNETIC SUSCEPTIBILITY (X 10 ⁻³ SI)	COMMENTS
3.50	0.15	
4.50	0.12	
5.50	0.11	
6.50	0.10	
7.50	0.20	
8.50	0.19	
9.50	0.13	
10.50	0.15	
11.50	0.23	
12.50	0.15	
13.50	0.19	
14.50	0.18	
15.50	0.15	
16.50	0.19	
17.50	0.19	
18.50	0.13	
19.50	0.16	
20.50	0.11	
21.50	0.14	
22.50	0.21	
23.50	0.53	
24.50	0.20	
25.50	0.18	
26.50	0.11	
27.50	0.11	
28.50	0.17	
29.50	0.08	
30.50	0.05	
31.50	0.03	
32.50	0.03	
33.50	0.02	
34.50	0.03	
35.50	0.06	
36.50	0.30	
37.50	0.32	
38.50	0.54	

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Espedalen - Magnetic Susceptibility**Hole Number: ES2004-08**

39.50	0.09	
40.50	0.03	
41.50	0.12	
42.50	0.08	
43.50	0.13	
44.50	0.12	
45.50	0.08	
46.50	0.12	
47.50	0.05	
48.50	0.08	
49.50	0.11	
50.50	0.05	
51.50	0.50	
52.50	0.91	
53.50	0.26	
54.50	0.10	
55.50	0.21	
56.50	0.43	
57.50	10.80	
58.50	8.71	
59.50	0.16	
60.50	0.15	
61.50	0.07	
62.50	0.08	
63.50	0.25	
64.50	0.14	
65.50	0.24	
66.50	0.14	
67.50	0.35	
68.50	0.17	
69.50	0.07	
70.50	0.36	
71.50	0.18	
72.50	0.14	
73.50	0.07	
74.50	0.07	
75.50	0.16	
76.50	0.27	
77.50	0.13	

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Espedalen - Magnetic Susceptibility**Hole Number: ES2004-08**

78.50	0.14	
79.50	0.45	
80.50	0.62	
81.50	0.61	
82.50	0.33	
83.50	0.51	
84.50	0.20	

Espedalen - Rock Quality (RQD)**Hole Number: ES2004-08**

FROM	TO	PERCENT QUALITY	PERCENT CORE	DISKING	COMMENTS
3.55	6.00	71.00	100.00	N	
6.00	9.00	70.00	100.00	N	
9.00	12.00	61.00	100.00	N	
12.00	15.00	53.00	100.00	N	
15.00	18.00	48.00	100.00	N	
18.00	21.00	51.00	98.00	N	
21.00	24.00	52.00	100.00	N	
24.00	27.00	40.00	100.00	N	
27.00	30.00	35.00	100.00	N	
30.00	33.00	62.00	100.00	N	
33.00	36.00	29.00	98.00	N	
36.00	39.00	40.00	100.00	N	
39.00	42.00	37.00	100.00	N	
42.00	45.00	34.00	100.00	N	
45.00	48.00	20.00	100.00	N	
48.00	51.00	29.00	100.00	N	
51.00	54.00	36.00	100.00	N	
54.00	57.00	16.00	100.00	N	
57.00	60.00	62.00	100.00	N	
60.00	63.00	55.00	100.00	N	
63.00	66.00	60.00	100.00	N	
66.00	69.00	70.00	100.00	N	
69.00	72.00	52.00	100.00	N	
72.00	75.00	62.00	100.00	N	
75.00	78.00	33.00	100.00	N	
78.00	81.00	85.00	100.00	N	
81.00	84.00	29.00	97.00	N	
84.00	85.30	69.00	100.00	N	85.3m End of Hole

*Friday, May 20, 2005**ES2004-08*

Detailed Log

Hole Number: ES2004-09				Units: METRIC	
Project Name: Espedalen	Collar Survey: Y	Plugged: N	<u>UTM WGS 84 Coord</u> UTM Northing: 6,801,193.37 Local Northing: 3074.43 UTM Easting: 535,308.73 Local Easting: 1595.72 Elevation: 979.13		Core Storage: Strand Fjellstue
Project Number: 300	Multishot Survey: Y	Hole Size: TT46			Contractor: Geo Drilling A/S
Date Started: 8/27/2004	Pulse EM Survey: Y				Collar Dip: -78.68
Date Completed: 8/31/2004	Casing: Left in Hole, capped				Collar Azimuth: 208.95
	Location: Surface				Length: 139.20
					Logged by: Yannick Beaudoin

Comments Purpose: To follow-up on mineralization intersected in ES2004-08 and further test UTEM conductor ESP_17_17. Conductivity = 700, 1000 Siemens (2 plates)

Result: Intersected two units of mineralized ultramafic schist and two units of massive sulphide (MS) between 80.4m and 95.0m (po-pn-cp-py). Pentlandite "eyes" visible in MS intervals. Mineralized units are bounded by anorthosite and mafic dykes.

Assays: 1.73% Ni, 0.77% Cu, 0.06% Co / 14.60m (80.40-95.00m)
 incl. 3.39% Ni, 2.03% Cu, 0.12% Co / 1.00m
 3.03% Ni, 1.15% Cu, 0.14% Co / 1.80m
 5.55% Ni, 5.42% Cu, 0.16% Co / 0.50m
 6.91% Ni, 2.05% Cu, 0.21% Co / 1.90m

Borehole UTEM: Multi-peaked in-hole responses @ 68m, 85m & 95m. Latter two can be correlated with intersected mineralization listed above. Response at 68m can be correlated with cm scale sulphide stringers intersected within the following intervals: 63.50-63.55m, 64.80-64.80m & 73.50-74.85m.

Lithological interpretation: Anorthositic terrain intruded by mafic dykes and narrow mineralized ultramafic intrusions. Subsequent tectonization of all lithologies and partial remobilization of massive sulphides.

NOTE: Collar re-surveyed by Rob McKeown with base station DGPS in winter of 2005. Results as follows:
 UTM North - 6,801,301.504 UTM East - 535,129.069 Grid North: 3006.306 Grid East: 11397.396

Detailed Lithology				Assay Data											
From	To	Lithology		Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
0.00	8.80	C	Casing												
8.80	9.80	10f	Mafic dykes												
Unmineralized, fine-medium grained mafic dyke/flow.															
Lower contact near perpendicular to core axis.															

Detailed Lithology				Assay Data											
From	To	Lithology		Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
9.80	80.43	4s Sausseritized/Tectonized Anorthosite		PG03106	72.50	73.50	1.00	0.03	0.03	0.01	0.07	0.02	0.01	0.01	0.25
		Inhomogeneous, foliated, mottled to banded, white and green, tectonized and altered anorthosite. Alteration consists of patchy to pervasive sausseritization and sericitization (?). Consists of 60-75% variably sausseritized plagioclase, 10-30% foliated, fine grained, pale green amorphous alteration mineral (sericite?) and 5-10% dark green chloritized mafic minerals. Locally contains cm to dm scale intervals of fine grained , green ultramafic schist (eg. 69.6-70m, 73.5-73.85m, 74.85-74.95m). Unit is cross cut by mm to cm scale foliation parallel quartz veins. Dm to m scale mafic dykes/flows intrude the unit (see Minor Units). Banded hematization occurs between 50.00m and 56.40m.		PG03107	73.50	74.85	1.35	0.46	0.12	0.01	2.11	0.01	0.01	0.01	0.25
				PG03108	74.85	75.60	0.75	0.03	0.03	0.01	0.01	0.03	0.01	0.01	0.25
				PG00231	79.40	80.40	1.00	0.03	0.03	0.01	0.10	0.01	0.01	0.01	0.25
				PG00232	80.40	81.40	1.00	3.39	2.03	0.12	19.50	0.04	0.08	0.02	1.70
Minor Interval															
	13.48	17.80	10f Mafic dykes												
			Unmineralized, fine-medium grained mafic dyke/flow.												
			Upper contact near perpendicular to core axis. Lower contact at 85 degrees to core axis.												
Minor Interval															
	19.70	23.58	10f Mafic dykes												
			Unmineralized, fine-medium grained mafic dyke/flow.												
			Upper contact at 75 degrees to core axis. Lower contact near perpendicular to core axis.												
Minor Interval															
	26.30	31.18	10f Mafic dykes												
			Unmineralized, fine-medium grained mafic dyke/flow.												
			Upper contact near perpendicular to core axis. Lower contact at 75 degrees to core axis.												
Minor Interval															
	56.40	58.00	10f Mafic dykes												
			Unmineralized, fine-medium grained mafic dyke/flow.												
			Upper contact near perpendicular to core axis. Lower contact at 45 degrees to core axis.												
Minor Interval															
	60.60	68.28	10f Mafic dykes												
			Unmineralized, fine-medium grained mafic dyke/flow.												
			Upper contact at 50 degrees to core axis. Lower contact near perpendicular to core axis.												
Mineralization															
	63.50	63.55	80.0 % Py Pyrite												

Detailed Lithology				Assay Data												
From	To	Lithology		Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t	
81.40	82.50	4s Sausseritized/Tectonized Anorthosite		PG00233	81.40	82.50	1.10	0.03	0.03	0.01	0.12	0.01	0.01	0.01	0.25	
Medium grained, mottled, white and grey anorthosite.																
Unit is cross cut by mm to cm scale foliation parallel quartz veins.																
Dm to m scale mafic dykes/flows intrude the unit.																
82.50	84.28	6e Ultramafic Schist		PG00234	82.50	83.00	0.50	3.29	1.38	0.17	23.40	0.04	0.03	0.03	1.40	
				PG00235	83.00	83.50	0.50	2.92	0.68	0.13	18.20	0.05	0.03	0.01	0.80	
				PG00236	83.50	84.30	0.80	2.94	1.30	0.12	18.10	0.10	0.05	0.02	1.00	
Fine grained, highly altered (chloritized) ultramafic schist.																
Mineralization consists of 45-50% sulphides over length. Net textured on dm scale.																
Locally semi massive stringers. 75% po with 10% py, 10% ccp and ~5% exsolution of pentlandite ("eyes").																
Cm scale unmineralized patches.																
In the vicinity of 83.20m, cm scale dark patches are observed within an unmineralized portion of the unit. Relict pyroxenes?																
Upper and lower contacts are near perpendicular to core axis.																
Interpretation: May be consistent with Heim's rock suite 2b.																
		Mineralization	82.51	84.28	50.0 %	Po	Pyrrhotite									
						NT	Net-Textured									
						po-pn-cpy-py, visible pentlandite "eyes"										
		Alteration	82.51	84.28	CH	Chlorite										
					P	Pervasive										
					S	Strong										
84.28	87.00	10f Mafic dykes		PG00237	84.30	85.00	0.70	0.03	0.03	0.01	0.20	0.01	0.01	0.01	0.25	
				PG00238	85.00	86.00	1.00	0.03	0.03	0.01	0.38	0.01	0.01	0.01	0.25	
				PG00239	86.00	87.00	1.00	0.34	0.49	0.01	2.52	0.03	0.01	0.01	0.25	
				Fine-medium grained mafic dyke/flow.												
		Minor Interval														
		86.60	87.00	6e Ultramafic Schist												
		Ultramafic schist with 10% po and 5% cp in several 2-15mm wide veinlets.														
		Mineralization	86.66	87.00	5.0 %	Po	Pyrrhotite									
						STR	Stringers									
						with minor ccp										

Detailed Lithology					Assay Data											
From	To	Lithology			Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
87.00	87.50	MS MASSIVE SULPHIDE (>75%) 20% fine grained, highly altered (chloritized) ultramafic schist and 80% massive sulphides (70% po with 15% ccp, 10% py and ~5% exsolution of pentlandite ("eyes")). Upper contact slightly diffuse and at about 75 degrees to core axis. Lower contact at about 80 degrees to core axis. Interpretation: May be consistent with Heim's rock suite 2b. <u>Mineralization</u> 87.00 87.50 93.0 % Po Pyrrhotite 														

Detailed Lithology						Assay Data											
From	To	Lithology				Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
93.10	95.00	MS MASSIVE SULPHIDE (>75%)				PG00243	93.10	94.00	0.90	6.56	1.87	0.20	30.60	0.03	0.06	0.05	1.00
		Fine grained, highly altered (chloritized) ultramafic schist.				PG00244	94.00	95.00	1.00	7.22	2.21	0.21	33.40	0.21	0.59	0.06	1.20
		Mineralization consists of 75-80% sulphides over length. 70% po with 10% py, 10% ccp and ~10% exsolution of pentlandite ("eyes"). From 93.10m to 93.22m, only ~trace sulphides. From 93.22m to 95m, 90-95% (massive) sulphides.															
		Minor cm to dm scale unmineralized fragments.															
		Upper contact at 45 degrees to core axis. Lower contact appears to be near perpendicular to core axis (missing piece).															
		Interpretation: May be consistent with Heim's rock suite 2b.															
		<u>Mineralization</u>	93.10	93.22	0.5 %	Po	Pyrrhotite										
						TR	Trace										
		<u>Mineralization</u>	93.22	95.00	95.0 %	Po	Pyrrhotite										
						M	Massive										
						po-pn-cpy; visible pentlandite "eyes"											
		<u>Alteration</u>	93.10	95.00	CH	Chlorite											
					P	Pervasive											
					S	Strong											

Detailed Lithology					Assay Data											
From	To	Lithology			Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
95.00	139.20	4s Sausseritized/Tectonized Anorthosite			PG00245	95.00	96.00	1.00	0.06	0.12	0.01	0.24	0.01	0.01	0.01	0.25
Inhomogenous, medium grained, well foliated to banded altered and tectonized anorthosite. Consists of 70-80% white plagioclase, 15-20% pale green sericite (?) and 5-10% dark green, chloritized mafic minerals. Locally cross-cut by cm to dm scale schistose ultramafic dykes. Progressively more leucocratic with increasing depth.																
Minor Interval																
	128.05	131.00	10f Mafic dykes													
Unmineralized, fine-medium grained mafic dyke/flow.																
Upper contact at 40 degrees to core axis. Lower contact perpendicular to axis.																
Minor Interval																
	131.50	132.40	10f Mafic dykes													
Unmineralized, fine-medium grained mafic dyke/flow.																
Upper and lower contacts at 75 degrees to core axis.																
Alteration	137.00	139.19	HM	Hematite												
			ST	Staining												
			M	Moderate												
Structure	114.50	114.51	Sm	General Foliation												

Espedalen - Analysis

Hole Number: ES2004-09

Sample Number	From	To	Sample Length	Ni%	Cu%	Co%	S%	Au g/t	Pt g/t	Pd g/t	Ag g/t	Pb%	Zn%	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI%	SUM %
PG03106	72.50	73.50	1.00	0.03	0.03	0.01	0.07	0.01	0.02	0.01	0.25																
PG03107	73.50	74.85	1.35	0.46	0.12	0.01	2.11	0.01	0.01	0.01	0.25																
PG03108	74.85	75.60	0.75	0.03	0.03	0.01	0.01	0.01	0.03	0.01	0.25																
PG00231	79.40	80.40	1.00	0.03	0.03	0.01	0.10	0.01	0.01	0.01	0.25																
PG00232	80.40	81.40	1.00	3.39	2.03	0.12	19.50	0.02	0.04	0.08	1.70																
PG00233	81.40	82.50	1.10	0.03	0.03	0.01	0.12	0.01	0.01	0.01	0.25																
PG00234	82.50	83.00	0.50	3.29	1.38	0.17	23.40	0.03	0.04	0.03	1.40																
PG00235	83.00	83.50	0.50	2.92	0.68	0.13	18.20	0.01	0.05	0.03	0.80																
PG00236	83.50	84.30	0.80	2.94	1.30	0.12	18.10	0.02	0.10	0.05	1.00																
PG00237	84.30	85.00	0.70	0.03	0.03	0.01	0.20	0.01	0.01	0.01	0.25																
PG00238	85.00	86.00	1.00	0.03	0.03	0.01	0.38	0.01	0.01	0.01	0.25																
PG00239	86.00	87.00	1.00	0.34	0.49	0.01	2.52	0.01	0.03	0.01	0.25																
PG00240	87.00	87.50	0.50	5.55	5.42	0.16	31.10	0.08	0.05	0.07	3.60																
PG00241	87.50	88.50	1.00	0.11	0.07	0.01	0.47	0.01	0.01	0.01	0.25																
PG03094	88.50	89.50	1.00	0.03	0.03	0.01	0.14	0.01	0.02	0.01	0.25																
PG03095	89.50	90.50	1.00	0.03	0.03	0.01	0.05	0.02	0.08	0.02	0.25																
PG03096	90.50	92.00	1.50	0.03	0.06	0.01	0.26	0.01	0.01	0.01	0.25																
PG00242	92.00	93.10	1.10	0.03	0.03	0.01	0.16	0.01	0.01	0.01	0.25																
PG00243	93.10	94.00	0.90	6.56	1.87	0.20	30.60	0.05	0.03	0.06	1.00																
PG00244	94.00	95.00	1.00	7.22	2.21	0.21	33.40	0.06	0.21	0.59	1.20																
PG00245	95.00	96.00	1.00	0.06	0.12	0.01	0.24	0.01	0.01	0.01	0.25																

Espedalen - Conductivity**Hole Number: ES2004-09**

Depth	Conductivity (Siemens)	COMMENTS
80.90	999.00	1136
81.30	974.20	
83.10	999.00	1399
87.25	999.00	1343
93.30	999.00	1871
93.80	999.00	2140
94.40	999.00	1387
94.70	999.00	1685

Espedalen - Magnetic Susceptibility**Hole Number: ES2004-09**

DEPTH	MAGNETIC SUSCEPTIBILITY (X 10 ⁻³ SI)	COMMENTS
9.50	0.64	
10.50	0.17	
11.50	0.16	
12.50	0.20	
13.50	0.26	
14.50	0.39	
15.50	0.55	
16.50	0.53	
17.50	0.47	
18.50	0.20	
19.50	0.24	
20.50	0.55	
21.50	0.54	
22.50	0.59	
23.50	0.20	
24.50	0.13	
25.50	0.17	
26.50	0.47	
27.50	0.45	
28.50	0.39	
29.50	0.40	
30.50	0.43	
31.50	0.22	
32.50	0.02	
33.50	0.21	
34.50	0.16	
35.50	0.16	
36.50	0.18	
37.50	0.20	
38.50	0.20	
39.50	0.23	
40.50	0.21	
41.50	0.16	
42.50	0.08	
43.50	0.10	
44.50	0.12	

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Espedalen - Magnetic Susceptibility**Hole Number: ES2004-09**

45.50	0.15	
46.50	0.23	
47.50	0.19	
48.50	0.10	
49.50	0.11	
50.50	0.14	
51.50	0.18	
52.50	0.21	
53.50	0.13	
54.50	0.18	
55.50	0.39	
56.50	0.56	
57.50	0.20	
58.50	0.16	
59.50	0.16	
60.50	0.23	
61.50	0.46	
62.50	0.44	
63.50	0.42	
64.50	0.82	
65.50	0.25	
66.50	0.14	
67.50	0.25	
68.50	0.24	
69.50	0.57	
70.50	0.18	
71.50	0.21	
72.50	0.44	
73.50	21.00	
74.50	1.50	
75.50	0.18	
76.50	0.22	
77.50	0.11	
78.50	0.15	
79.50	0.09	
80.50	23.60	
81.50	8.18	
82.50	18.00	
83.50	19.60	

*Friday, May 20, 2005**ES2004-09*

Espedalen - Magnetic Susceptibility**Hole Number: ES2004-09**

84.50	0.03	
85.50	0.46	
86.50	0.45	
87.50	5.70	
88.50	0.41	
89.50	0.32	
90.50	0.45	
91.50	0.44	
92.50	0.15	
93.50	29.80	
94.50	90.20	
95.50	0.46	
96.50	0.86	
97.50	0.03	
98.50	0.06	
99.50	0.13	
100.50	0.14	
101.50	0.12	
102.50	0.10	
103.50	0.13	
104.50	0.05	
105.50	0.06	
106.50	0.14	
107.50	0.08	
108.50	0.07	
109.50	0.23	
110.50	0.10	
111.50	0.05	
112.50	0.07	
113.50	0.30	
114.50	0.10	
115.50	0.06	
116.50	0.12	
117.50	0.12	
118.50	0.10	
119.50	0.06	
120.50	0.17	
121.50	0.25	
122.50	0.32	

*Friday, May 20, 2005**ES2004-09*

Espedalen - Magnetic Susceptibility**Hole Number: ES2004-09**

123.50	0.14	
124.50	0.07	
125.50	0.76	
126.50	0.06	
127.50	0.10	
128.50	0.51	
129.50	0.46	
130.50	0.48	
131.50	0.48	
132.50	0.07	
133.50	0.03	
134.50	0.03	
135.50	0.05	
136.50	0.07	
137.50	0.06	
138.50	0.03	

Espedalen - Rock Quality (RQD)**Hole Number: ES2004-09**

FROM	TO	PERCENT QUALITY	PERCENT CORE	DISKING	COMMENTS
8.80	11.00	15.00	95.00	N	
11.00	14.00	32.00	100.00	N	
14.00	17.00	68.00	100.00	N	
17.00	20.00	70.00	100.00	N	
20.00	23.00	69.00	100.00	N	
23.00	26.00	66.00	100.00	N	
26.00	29.00	63.00	100.00	N	
29.00	32.00	82.00	100.00	N	
32.00	35.00	88.00	100.00	N	
35.00	38.00	82.00	98.00	N	
38.00	41.00	68.00	100.00	N	
41.00	44.00	70.00	100.00	N	
44.00	47.00	64.00	100.00	N	
47.00	50.00	69.00	100.00	N	
50.00	53.00	31.00	100.00	N	
53.00	56.00	42.00	100.00	N	
56.00	59.00	49.00	95.00	N	
59.00	62.00	71.00	98.00	N	
62.00	65.00	74.00	98.00	N	
65.00	68.00	38.00	100.00	N	
68.00	71.00	43.00	100.00	N	
71.00	74.00	65.00	100.00	N	
74.00	77.00	66.00	100.00	N	
77.00	80.00	55.00	98.00	N	
80.00	83.00	37.00	95.00	N	
83.00	86.00	63.00	100.00	N	
86.00	89.00	59.00	100.00	N	
89.00	92.00	41.00	100.00	N	
92.00	95.00	76.00	100.00	N	
95.00	98.00	77.00	100.00	N	
98.00	101.00	80.00	100.00	N	
101.00	104.00	75.00	100.00	N	
104.00	107.00	66.00	100.00	N	
107.00	110.00	62.00	100.00	N	
110.00	113.00	60.00	100.00	N	
113.00	116.00	57.00	100.00	N	
116.00	119.00	70.00	100.00	N	

Friday, May 20, 2005

ES2004-09

Espedalen - Rock Quality (RQD)**Hole Number: ES2004-09**

119.00	122.00	85.00	100.00	N	
122.00	125.00	65.00	100.00	N	
125.00	128.00	68.00	100.00	N	
128.00	131.00	84.00	100.00	N	
131.00	134.00	70.00	100.00	N	
134.00	137.00	62.00	95.00	N	
137.00	139.20	35.00	100.00	N	

*Friday, May 20, 2005**ES2004-09*

Detailed Log

Hole Number: ES2004-10				Units: METRIC				
Project Name: Espedalen	Collar Survey: Y	Plugged: N	<u>UTM WGS 84 Coord</u> UTM Northing: 6,803,420.18 UTM Easting: 533,158.66 Elevation: 1007.65		<u>Local Coord</u> Local Northing: 2858.74 Local Easting: 8507.84		Core Storage: Strand Fjellstue	Collar Dip: -50.00
Project Number: 300	Multishot Survey: N	Hole Size: TT46					Contractor: Geo Drilling A/S	Collar Azimuth: 230.00
Date Started: 9/1/2004	Pulse EM Survey: Y							Length: 129.65
Date Completed: 9/5/2004	Casing: Left in Hole, capped					Logged by: P. Tirschmann		
Location: Surface								

Comments Purpose: To test UTEM conductor ESP_16_16. Conductivity =600 siemens

Result: Intersected variably mineralized, zoned **UM** body between 50.8m and 83.15m. Conductor can be correlated with the following zones of mineralized ultramafic:
 65-73m (8m): 3-15% po disseminations, blebs and stringers in dunite/peridotite
 76-79m (3m): 5-10% po blebs, stringers and veinlets in peridotite

Assays: 0.52% Ni, 0.12% Cu, 0.02% Co / 1.00m (65.00-66.00m) (Best)

Borehole UTEM: In-hole response centered @68m.

Lithological interpretation: Anorthositic terrain intruded by mafic dykes and a mineralized ultramafic body.

Detailed Lithology			Assay Data											
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
0.00	1.79	C Casing												
1.79	12.60	10f Mafic dykes Fine to medium grained, greyish-green mafic dyke. Crosscut by several percent 1-15mm wide white carbonate veinlets. Downhole contact is gradational chilled over approx. 5cm; 60-75 degrees to CA. Magnetic Susceptibility: <1 Conductivity: Non-conductive Interpretation: Unit could be either a gabbroic dyke or a coarse grained mafic metavolcanic flow. (More likely a gabbroic dyke if bounded by anorthosite). Similar units logged as mafic dykes in drillholes ES-2004-05, 06 & 07 (P4 area) and ES-2004-08 & 09 (P2 area).												

Detailed Lithology			Assay Data											
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
12.60	31.60	4 Anorthosite / Anorthositic Gabbro White to grey medium grained anorthosite consisting of 80-90% feldspar and 10-20% interstitial soft, green, altered mafic (?) minerals. Local grain size reduction due to shearing. Unit becomes progressively more altered and tectonized downhole. Downhole contact gradational. Cross-cut by 2 narrow ultramafic dykes (see minor intervals). Magnetic Susceptibility: <0.5 Conductivity: Non-conductive <u>Minor Interval</u> 23.42 24.10 8e Pyroxenite Fine grained, dark green melano-gabbro to pyroxenite dyke. Contacts sharp; uphole contact at 60 degrees to CA; downhole contact at 50 degrees to CA. Related to uphole gabbroic unit? <u>Minor Interval</u> 24.90 25.45 8e Pyroxenite Fine grained, dark green melano-gabbro to pyroxenite dyke. Contacts sharp; uphole contact at 50-55 degrees to CA; downhole contact at approx. 75 degrees to CA. Related to uphole gabbroic unit? <u>Structure</u> 30.40 30.41 Sm General Foliation Shearing												
31.60	50.80	4s Sausseritized/Tectonized Anorthosite Inhomogenous, banded white, grey and pale green sausseritized and sheared anorthosite. Consists of fine grained, sheared sericite and feldspar-rich rock surrounding lozenges of what appears to be coarser grained, equigranular, white anorthosite as uphole. Grain size reduction with shearing evident; locally mylonitized. Magnetic Susceptibility: <0.5 Conductivity: non-conductive Interpretation: Altered, tectonized anorthosite based on gradation to more recognizable anorthosite uphole. <u>Minor Interval</u> 42.65 43.03 10f Mafic dykes Pale green, aphanitic mafic dyke. Contacts sharp; uphole contact at 40 degrees to CA; downhole contact at 65 degrees to CA. <u>Structure</u> 34.50 34.51 Sm General Foliation <u>Structure</u> 39.70 39.71 Sm General Foliation <u>Structure</u> 43.40 43.41 Sm General Foliation <u>Structure</u> 49.90 49.91 Sm General Foliation	PG00246	49.00	50.00	1.00	0.03	0.03	0.01	0.04	0.01	0.01	0.01	0.25
			PG00247	50.00	50.80	0.80	0.03	0.03	0.01	0.10	0.01	0.01	0.01	0.25

Detailed Lithology					Assay Data											
From	To	Lithology			Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
50.80	83.15	6 Undivided Ultramafic Intrusive			PG00248	50.80	52.00	1.20	0.11	0.07	0.01	0.85	0.01	0.01	0.01	0.25
		Fine to medium grained, dark green to black zoned (?) ultramafic body containing trace to, locally, 15% sulphides (po, minor cp) occurring as blebs, disseminations and stringers. Shows less evidence of tectonization compared to surrounding anorthosites. Massive to locally foliated. Several cm to dm scale inclusions (?) of altered, brownish green, fine grained, equigranular gabbroic rock adjacent to downhole contact between 81m and 83.15m.			PG00249	52.00	53.00	1.00	0.12	0.06	0.01	0.69	0.01	0.01	0.01	0.25
					PG03001	53.00	54.00	1.00	0.06	0.03	0.01	0.16	0.06	0.01	0.02	0.25
					PG03002	54.00	55.00	1.00	0.08	0.03	0.02	0.26	0.01	0.01	0.01	0.25
					PG03003	55.00	56.00	1.00	0.09	0.03	0.01	0.44	0.01	0.01	0.01	0.25
					PG03004	56.00	57.00	1.00	0.07	0.05	0.01	0.10	0.02	0.01	0.01	0.25
					PG03005	57.00	58.00	1.00	0.23	0.07	0.01	0.36	0.02	0.01	0.01	0.25
		50.8-65m: Fairly soft, pyroxenitic (?) ultramafic largely altered to chlorite, serpentine and talc +/- phlogopite. Locally contains mm to cm scale, rounded grains altered to phlogopite (formerly pyroxenes?). Trace disseminated sulphides. Mag sus ranges from <1 to 2.5; non-conductive.			PG03006	58.00	59.00	1.00	0.14	0.03	0.02	0.27	0.01	0.01	0.01	0.25
					PG03007	59.00	60.00	1.00	0.03	0.03	0.01	0.18	0.01	0.01	0.01	0.25
					PG03008	60.00	61.00	1.00	0.03	0.03	0.01	0.01	0.01	0.01	0.01	0.25
					PG03009	61.00	62.00	1.00	0.03	0.05	0.01	0.01	0.01	0.01	0.01	0.25
					PG03010	62.00	62.90	0.90	0.03	0.03	0.01	0.01	0.01	0.01	0.01	0.25
					PG03012	64.35	65.00	0.65	0.08	0.03	0.01	0.19	0.02	0.01	0.01	0.25
		65-73: Medium grained, dark green to black, cumulate textured, well-mineralized dunite/peridotite containing 3-15% sulphide blebs, disseminations & minor fracture fillings (esp. cp). Sulphides locally strung out parallel to foliation. Mag Sus ranges from 2-20; conductivity = 10-30, locally 200 (eg. 65.7m).			PG03013	65.00	66.00	1.00	0.52	0.12	0.02	4.24	0.02	0.02	0.01	0.50
					PG03014	66.00	67.00	1.00	0.33	0.31	0.03	3.13	0.01	0.01	0.03	1.10
					PG03015	67.00	68.00	1.00	0.26	0.17	0.01	1.82	0.02	0.01	0.02	0.60
					PG03016	68.00	69.00	1.00	0.30	0.28	0.03	2.50	0.03	0.01	0.13	1.20
					PG03017	69.00	70.00	1.00	0.37	0.33	0.01	2.81	0.02	0.02	0.03	1.10
					PG03018	70.00	71.00	1.00	0.42	0.37	0.02	3.14	0.01	0.01	0.01	0.80
		73-83.15m: Medium grained, dark green, variably altered peridotitic to pyroxenitic ultramafic containing 1-5% sulphide blebs, disseminations and stringers. Two intervals of fine grained equigranular, melanonorite (?) from 81-81.90m and 82.75-83.15m. Mag sus highly variable (1-50) but averages 15-20; conductivity = 10-60; locally 100-300.			PG03019	71.00	72.00	1.00	0.29	0.10	0.01	1.93	0.02	0.01	0.01	0.25
					PG03020	72.00	73.00	1.00	0.20	0.09	0.01	1.13	0.01	0.01	0.01	0.25
					PG03021	73.00	74.00	1.00	0.16	0.09	0.03	0.95	0.02	0.01	0.01	0.25
					PG03022	74.00	75.00	1.00	0.21	0.09	0.02	1.42	0.01	0.02	0.02	0.25
					PG03023	75.00	76.00	1.00	0.26	0.17	0.01	2.00	0.01	0.02	0.01	0.25
					PG03024	76.00	77.00	1.00	0.47	0.31	0.03	3.88	0.03	0.03	0.01	0.90
		Uphole contact sharp at 55 degrees to CA; Downhole contact at approx. 50 degrees to CA.			PG03026	77.00	78.00	1.00	0.46	0.11	0.01	3.72	0.01	0.03	0.01	0.25
					PG03027	78.00	79.00	1.00	0.28	0.11	0.02	2.32	0.01	0.02	0.01	0.25
					PG03028	79.00	80.00	1.00	0.23	0.19	0.02	1.36	0.01	0.02	0.06	0.60
					PG03029	80.00	81.00	1.00	0.30	0.17	0.02	2.33	0.03	0.03	0.02	0.60
					PG03030	81.00	81.90	0.90	0.09	0.11	0.01	0.11	0.04	0.04	0.01	0.25
					PG03031	81.90	82.75	0.85	0.08	0.08	0.01	0.67	0.01	0.01	0.01	0.25
		Interpretation: Zoned ultramafic body consisting of a mineralized dunitic to peridotitic core surrounded by peridotitic to pyroxenitic phases. Body interpreted to intrude surrounding anorthosites.			PG03032	82.75	83.15	0.40	0.06	0.03	0.04	0.03	0.02	0.02	0.01	0.25
		Minor Interval														
		62.90	64.35	4s Sausseritized/Tectonized Anorthosite												
		Mineralization			50.80	53.00	0.5 %	Po	Pyrrhotite							
							STR	Stringers								
							Trace po veinlets locally.									