

Hole Number: ES2006-51

Units: METRIC

Project Name:	Norway - Espedalen	Primary Coordinates	Grid: UTM84-32N	Destination Coordinates	Grid: UTM:	Collar Dip:	-65.00
Project Number:	201	North:	6801082.50	North:	61.34	Collar Az:	230.00
Location:	Surface	East:	535572.00	East:	9.66	Length:	249.00 (m)
		Elev:	961.56	Elev:	961.56	Start Depth:	0.00 (m)
Date Started:	Mar 05, 2006	Collar Survey:	N	Plugged:	N	Contractor:	Arctic Drilling A/S
Date Completed:	Mar 09, 2006	Multishot Survey:	N	Hole Size:	TT46	Core Storage:	Strand Fjellstue
Logged By:	ybeaudoin	Pulse EM Survey:	N	Casing:	Left in Hole, capped	Final Depth:	249.00 (m)

Comments: Purpose: To test the SE downplunge potential of the known Stormyra main mineralization.

Summary: Anorthosite dominated sequence with intruding mafic dykes and minor (cm- to dm-scale) ultramafic schists. Espedalen Complex contact at 204m after which rocktype is mafic metavolcanics and volcanoclastics.

Notable (though not significant) mineralization at:

98.22 m (1cm wide po-py-pent stringer)

99.76 m (3 cm wide po-py-pent stringer)

105.86 m (5 cm wide po-py-pent stringer)

180.92m - 187.04m : Over entire length, unit contains ~1% po (pent?). Locally (cm-scale) mineralization can be up to 2% po (pent?). Sulphides are disseminated and also occur as stringers.

Sample Averages

Average Type	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
WEIGHTED	99.55	105.39	5.84	0.1675	0.0668	0.0131

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	9.60	C, Casing RQD 0.00 - 9.60 : 100.00 % RQD 100.00 % Core CASING							

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
9.60	21.67	<p>4s, Sausseritized/Tectonized Anorthosite</p> <p>Medium grained, well foliated, grey-white-green, heterogenous, non-magnetic, saussuritized anorthosite composed of varying amounts of plagioclase, chlorite, sericite, and epidote. This unit is intermixed with dm- to m-scale mafic intrusives which appear as fine-grained, green-grey, non-magnetic, well-foliated, unmineralized intrusions (dykes/sills) (see minor units for contact relationships and interval lengths).</p> <p>Structure 13.20 - 13.21 : Sm General Foliation, 77 Deg to CA 21.66 - 21.67 : LC Lower Contact, 90 Deg to CA sharp</p> <p>RQD 9.60 - 12.00 : 80.00 % RQD 100.00 % Core 12.00 - 15.00 : 61.00 % RQD 100.00 % Core 15.00 - 18.00 : 62.00 % RQD 100.00 % Core 18.00 - 21.00 : 65.00 % RQD 100.00 % Core 21.00 - 24.00 : 57.00 % RQD 100.00 % Core</p> <p>MINOR INTERVALS: Minor Interval: 19.6 - 20.35 MD, Mafic Dike</p> <p>Fine-grained dark gray to greenish-black, non-magnetic, homogeneous, finely foliated mafic rock, composed of amphibole/pyroxene, chlorite, and alteration minerals. Cm-scale fragments of anorthosite are present in the unit.</p> <p>Structure 19.60 - 19.61 : UC Upper Contact, 89 Deg to CA sharp 20.34 - 20.35 : LC Lower Contact, 90 Deg to CA sharp</p>							
21.67	29.87	<p>MD, Mafic Dike</p> <p>Fine-grained dark gray to greenish-black, locally weakly magnetic, homogeneous, finely foliated mafic rock, composed of amphibole/pyroxene, chlorite, and alteration minerals. Patchy quartz-epidote alteration is observed locally. The upper contact is sharp at near 90 degrees tca. The lower contact is sharp at 45 tca.</p> <p>Rare disseminated pyrite/pyrrhotite and mm-scale pyrite cubes are observed (e.g. 26.3 m).</p> <p>Structure 26.20 - 26.21 : Sm General Foliation, 86 Deg to CA</p> <p>RQD 24.00 - 27.00 : 42.00 % RQD 100.00 % Core 27.00 - 30.00 : 39.00 % RQD 100.00 % Core</p>							

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
29.87	49.50	<p>4s, Sausseritized/Tectonized Anorthosite</p> <p>This unit consists of fine- to medium-grained, white to light gray, non-magnetic, fairly homogeneous, foliated anorthosite. Major minerals are plagioclase and alteration minerals (chlorite, sericite, trace fuchsite and locally hematite). Depending on the abundance of alteration minerals and degree of foliation, the rock appears mottled white to light gray; changes in appearance occur on a meter-scale. Locally, the unit is cross-cut by mm-scale quartz veinlets. The unit is cut by three (3) dm-scale ultramafic dikes/sills (see minor units). The lower contact is sharp at 67 degrees tca.</p> <p>Alteration 38.45 - 42.03 :HM Hematite, P Pervasive, M Moderate</p> <p>Structure 37.99 - 38.00 : Sm General Foliation, 82 Deg to CA 46.99 - 47.00 : Sm General Foliation, 90 Deg to CA 49.49 - 49.50 : LC Lower Contact, 67 Deg to CA sharp</p> <p>RQD 30.00 - 33.00 : 44.00 % RQD 100.00 % Core 33.00 - 36.00 : 70.00 % RQD 100.00 % Core 36.00 - 39.00 : 69.00 % RQD 100.00 % Core 39.00 - 42.00 : 79.00 % RQD 100.00 % Core 42.00 - 45.00 : 75.00 % RQD 100.00 % Core 45.00 - 48.00 : 73.00 % RQD 100.00 % Core 48.00 - 51.00 : 81.00 % RQD 100.00 % Core</p> <p>MINOR INTERVALS: Minor Interval: 35.64 - 35.73 6e, Ultramafic Schist This unit is fine grained, schistose altered (talc) ultramafic with trace biotite. This unit is unmineralized. The upper and lower contacts are sharp at 88 degrees tca. Minor Interval: 35.89 - 36.06 6e, Ultramafic Schist This unit is fine grained, schistose altered (talc) ultramafic with trace biotite. This unit is unmineralized. The upper and lower contacts are sharp at 86 degrees tca. Minor Interval: 36.35 - 36.49 6e, Ultramafic Schist This unit is fine grained, schistose altered (talc) ultramafic with trace biotite. This unit is unmineralized. The upper and lower contacts are sharp at 90 degrees tca.</p>							

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
49.50	62.39	<p>MD, Mafic Dike</p> <p>Fine-grained dark gray to greenish-black, non-magnetic, homogeneous, finely foliated mafic rock, composed of amphibole/pyroxene, chlorite, and alteration minerals.</p> <p>Patchy quartz-epidote alteration is observed locally (e.g. 54.60m).</p> <p>The upper contact is sharp at near 90 degrees tca, and the lower contact is sharp at 73 degrees tca.</p> <p>This unit contains trace disseminated po and py.</p> <p>Structure</p> <p>52.99 - 53.00 : Sm General Foliation, 84 Deg to CA</p> <p>RQD</p> <p>51.00 - 54.00 : 87.00 % RQD 100.00 % Core</p> <p>54.00 - 57.00 : 60.00 % RQD 100.00 % Core</p> <p>57.00 - 60.00 : 84.00 % RQD 100.00 % Core</p> <p>60.00 - 63.00 : 94.00 % RQD 100.00 % Core</p>							
62.39	71.14	<p>4s, Sausseritized/Tectonized Anorthosite</p> <p>Medium to fine -rained, heterogeneous, white to off-white, mottled, non-magnetic, moderately to highly foliated anorthosite.</p> <p>This unit contains patchy saussuritization and possibly sericitization. The unit contains 75-85% plagioclase (variably altered), minor mafic minerals and alteration minerals (chlorite, fuchsite, sericite?). Quartz veins are also observed.</p> <p>The lower contact of this unit is sharp at 84 degrees tca, and the lower contact is sharp at 76 degrees tca.</p> <p>Structure</p> <p>62.39 - 62.40 : UC Upper Contact, 84 Deg to CA sharp</p> <p>71.13 - 71.14 : LC Lower Contact, 76 Deg to CA sharp</p> <p>RQD</p> <p>63.00 - 66.00 : 87.00 % RQD 100.00 % Core</p> <p>66.00 - 69.00 : 86.00 % RQD 100.00 % Core</p> <p>69.00 - 72.00 : 92.00 % RQD 100.00 % Core</p>							

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Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
71.14	73.11	MD, Mafic Dike Fine-grained dark gray to greenish-black, non-magnetic, homogeneous, finely foliated mafic rock, composed of amphibole/pyroxene, chlorite, and alteration minerals. The upper contact is sharp at 76 degrees tca and the lower contact is somewhat diffuse at 77 degrees tca. This unit contains trace disseminated po and py. Structure 71.14 - 71.15 : UC Upper Contact, 76 Deg to CA sharp 73.10 - 73.11 : LC Lower Contact, 77 Deg to CA moderately diffuse RQD 72.00 - 75.00 : 90.00 % RQD 100.00 % Core							

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Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
73.11	130.02	4s, Sausseritized/Tectonized Anorthosite	PG00433	96.99	98.05	1.06	0.0250	0.0250	0.0100
		<p>This unit consists of fine-grained, white to light gray, non-magnetic, fairly homogeneous, moderately to well-foliated anorthosite. Major minerals are plagioclase and alteration minerals (chlorite, ?sericite, fuchsite, locally hematite). Depending on the abundance of alteration minerals and degree of foliation, the rock appears mottled white to light gray; changes in appearance occur on a meter-scale. Locally, the unit is cross-cut by mm-scale quartz veinlets. Some portions of the unit consist almost exclusively of plagioclase.</p> <p>Cm and dm-scale ultramafic schist bands are present throughout (see minor units for description of dm-scale bands).</p> <p>Three cm-scale bands of massive po-py-pentlandite are found at 98.22m, 99.76m and 105.86m.</p> <p>The lower contact is sharp at near 90 degrees tca.</p> <p>Mineralization</p> <p>98.22 - 98.23 : Po Pyrrhotite, STR Stringers, 90% po-py-pent</p> <p>99.76 - 99.79 : Po Pyrrhotite, STR Stringers, 90% po-py-pent</p> <p>105.72 - 105.86 : Po Pyrrhotite, D Disseminated, 0.5%</p> <p>105.86 - 105.91 : Po Pyrrhotite, STR Stringers, 90% po-py-pent</p> <p>109.30 - 109.31 : Po Pyrrhotite, F Fracture Controlled, 0.5%</p> <p>Alteration</p> <p>94.50 - 96.30 :HM Hematite, BN Banded, M Moderate</p> <p>Structure</p> <p>85.80 - 85.81 : Sm General Foliation, 89 Deg to CA</p> <p>94.80 - 94.81 : Sm General Foliation, 61 Deg to CA</p> <p>108.30 - 108.31 : Sm General Foliation, 88 Deg to CA</p> <p>130.01 - 130.02 : LC Lower Contact, 90 Deg to CA sharp</p> <p>RQD</p> <p>75.00 - 78.00 : 93.00 % RQD 100.00 % Core</p> <p>78.00 - 81.00 : 94.00 % RQD 100.00 % Core</p> <p>81.00 - 84.00 : 94.00 % RQD 100.00 % Core</p> <p>84.00 - 87.00 : 95.00 % RQD 100.00 % Core</p> <p>87.00 - 90.00 : 97.00 % RQD 100.00 % Core</p> <p>90.00 - 93.00 : 91.00 % RQD 100.00 % Core</p> <p>93.00 - 96.00 : 87.00 % RQD 100.00 % Core</p> <p>96.00 - 99.00 : 74.00 % RQD 100.00 % Core</p> <p>99.00 - 102.00 : 75.00 % RQD 100.00 % Core</p>	PG00434	98.05	98.37	0.32	0.2200	0.0250	0.0100
			PG00435	98.37	99.55	1.18	0.0250	0.0250	0.0100
			PG00436	99.55	99.88	0.33	0.4600	0.2600	0.0100
			PG00437	99.88	100.48	0.60	0.0250	0.0250	0.0100
			PG00438	100.48	100.83	0.35	0.0250	0.0250	0.0100
			PG00439	100.83	101.11	0.28	0.0250	0.0250	0.0100
			PG00440	101.11	102.55	1.44	0.0250	0.0250	0.0100
			PG00441	102.55	102.95	0.40	0.0250	0.0250	0.0100
			PG00442	102.95	104.14	1.19	0.0250	0.0250	0.0100
			PG00443	104.14	104.44	0.30	0.0250	0.0250	0.0100
			PG00444	104.44	105.09	0.65	0.0250	0.0250	0.0100
			PG00445	105.09	105.39	0.30	2.3200	0.5800	0.0700
			PG00446	105.39	106.38	0.99	0.0250	0.0250	0.0100

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From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		<p>RQD</p> <p>102.00 - 105.00 : 82.00 % RQD 100.00 % Core</p> <p>105.00 - 108.00 : 77.00 % RQD 100.00 % Core</p> <p>108.00 - 111.00 : 79.00 % RQD 100.00 % Core</p> <p>111.00 - 114.00 : 83.00 % RQD 100.00 % Core</p> <p>114.00 - 117.00 : 90.00 % RQD 100.00 % Core</p> <p>117.00 - 120.00 : 97.00 % RQD 100.00 % Core</p> <p>120.00 - 123.00 : 94.00 % RQD 100.00 % Core</p> <p>123.00 - 126.00 : 81.00 % RQD 100.00 % Core</p> <p>126.00 - 129.00 : 92.00 % RQD 100.00 % Core</p> <p>129.00 - 132.00 : 97.00 % RQD 100.00 % Core</p> <p>MINOR INTERVALS:</p> <p>Minor Interval:</p> <p>98.06 - 100.49 MD, Mafic Dike</p> <p>Fine-grained dark gray to greenish-black, non-magnetic, homogeneous, finely foliated mafic rock, composed of amphibole/pyroxene, chlorite, and alteration minerals. Cm-scale fragments of anorthosite are present in the unit.</p> <p>The upper contact is sharp at 82 degrees tca and the lower contact is sharp at 66 degrees tca.</p> <p>Two cm-scale bands of massive po-py-pent transect the unit at 98.22m and 99.76m (see mineralization section).</p> <p>Minor Interval:</p> <p>101.91 - 102.09 6e, Ultramafic Schist</p> <p>Mineralized ultramafic schist containing disseminated po-py (0.5%).</p> <p>Upper and lower contacts are sharp at 88 degrees tca.</p> <p>Minor Interval:</p> <p>105.72 - 105.91 6e, Ultramafic Schist</p> <p>Mineralized ultramafic schist. Disseminated po-py and a 5cm wide strongly magnetic po-py-pent stringer.</p> <p>Upper and lower contacts are sharp at 58 and 64 tca respectively.</p> <p>Structure</p> <p>105.72 - 105.73 : UC Upper Contact, 58 Deg to CA sharp</p> <p>105.90 - 105.91 : LC Lower Contact, 64 Deg to CA sharp</p>							

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Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
130.02	137.17	<p>MD, Mafic Dike</p> <p>Fine-grained dark gray to greenish-black, non-magnetic, homogeneous, finely foliated mafic rock, composed of amphibole/pyroxene, chlorite, and alteration minerals. Locally, the rock is epidotized. mm- to cm-scale quartz veining is observed throughout. Cm-scale fragments of anorthosite are also observed throughout.</p> <p>The upper contact is sharp at near 90 degrees tca and the lower contact is sharp at 71 degrees tca.</p> <p>This unit contains trace disseminated py-po.</p> <p>Structure</p> <p>130.02 - 130.03 : UC Upper Contact, 90 Deg to CA sharp</p> <p>137.16 - 137.17 : LC Lower Contact, 71 Deg to CA sharp</p> <p>RQD</p> <p>132.00 - 135.00 : 97.00 % RQD 100.00 % Core</p> <p>135.00 - 138.00 : 94.00 % RQD 100.00 % Core</p>							

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Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
137.17	180.92	<p>4s, Sausseritized/Tectonized Anorthosite</p> <p>Medium to fine grained, heterogeneous, white to green, non-magnetic, moderately to highly foliated anorthosite.</p> <p>This unit contains patchy to pervasive (banded) saussuritization, hematization, epidotization and possibly sericitization. The unit contains 65-80% plagioclase (variably altered) and 20-35% alteration minerals (chlorite, hematite, sericite?, fuchsite?) and mafic minerals.</p> <p>This unit contains dm- to m-scale mafic and ultramafic (schist) dykelets which are generally well-foliated, fine grained, light to dark green to gray (ultramafic schists), homogenous units that locally contain trace disseminated pyrrhotite. See minor units for intervals as well as for contact relationships.</p> <p>A cm-scale gabbronoritic (7a) dykelet transects the anorthosite at 177.09m.</p> <p>From 174.02m - 180.94m the unit is highly tectonized, strongly foliated and finer grained.</p> <p>The lower contact of this unit is sharp along an ultramafic dyke/sill at 65 degrees to the ca.</p> <p>Structure 137.17 - 137.18 : UC Upper Contact, 71 Deg to CA sharp 180.19 - 180.20 : Sm General Foliation, 78 Deg to CA strong 180.91 - 180.92 : LC Lower Contact, 65 Deg to CA sharp RQD 138.00 - 141.00 : 81.00 % RQD 100.00 % Core 141.00 - 144.00 : 75.00 % RQD 100.00 % Core 144.00 - 147.00 : 93.00 % RQD 100.00 % Core 147.00 - 150.00 : 95.00 % RQD 100.00 % Core 150.00 - 153.00 : 88.00 % RQD 100.00 % Core 153.00 - 156.00 : 70.00 % RQD 100.00 % Core 156.00 - 159.00 : 84.00 % RQD 100.00 % Core 159.00 - 162.00 : 98.00 % RQD 100.00 % Core 162.00 - 165.00 : 99.00 % RQD 100.00 % Core 165.00 - 168.00 : 97.00 % RQD 100.00 % Core 168.00 - 171.00 : 93.00 % RQD 100.00 % Core 171.00 - 174.00 : 90.00 % RQD 100.00 % Core 174.00 - 177.00 : 96.00 % RQD 100.00 % Core 177.00 - 180.00 : 96.00 % RQD 100.00 % Core 180.00 - 183.00 : 94.00 % RQD 100.00 % Core</p>	PG00451	179.48	180.92	1.44	0.0250	0.0250	0.0100

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Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		<p>MINOR INTERVALS:</p> <p>Minor Interval: 145.35 - 146.14 MD, Mafic Dike Fine-grained dark gray to greenish-black, non-magnetic, homogeneous, finely foliated mafic rock, composed of amphibole/pyroxene, chlorite, and alteration minerals. Cm-scale fragments of anorthosite are present in the unit.</p> <p>The unit contains trace disseminated po (py?).</p> <p>The upper and lower contacts are sharp at 80 and 78 degrees tca, respectively.</p> <p>Structure 145.35 - 145.36 : UC Upper Contact, 80 Deg to CA sharp 146.13 - 146.14 : LC Lower Contact, 78 Deg to CA sharp</p> <p>Minor Interval: 150.58 - 150.67 6e, Ultramafic Schist This unit is fine grained, schistose altered (talc) ultramafic with trace biotite. The unit contains trace disseminated po. The upper and lower contacts are sharp at 90 degrees tca.</p> <p>Structure 150.58 - 150.59 : UC Upper Contact, 90 Deg to CA sharp 150.66 - 150.67 : LC Lower Contact, 90 Deg to CA sharp</p> <p>Minor Interval: 151 - 151.74 MD, Mafic Dike Fine-grained dark gray to greenish-black, non-magnetic, homogeneous, finely foliated mafic rock, composed of amphibole/pyroxene, chlorite, and alteration minerals. Cm-scale fragments of anorthosite are present in the unit.</p> <p>The unit contains trace disseminated po (py?).</p> <p>The upper and lower contacts are sharp at 74 and 89 degrees tca, respectively.</p> <p>Structure 151.00 - 151.01 : UC Upper Contact, 74 Deg to CA sharp 151.73 - 151.74 : LC Lower Contact, 89 Deg to CA sharp</p>							

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Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		<p>MINOR INTERVALS:</p> <p>Minor Interval: 167.4 - 167.83 MD, Mafic Dike</p> <p>Fine-grained dark gray to greenish-black, non-magnetic, homogeneous, finely foliated mafic rock, composed of amphibole/pyroxene, chlorite, and alteration minerals. Cm-scale fragments of anorthosite are present in the unit.</p> <p>The upper and lower contacts are sharp at near 90 degrees tca.</p> <p>Structure 167.40 - 167.41 : UC Upper Contact, 90 Deg to CA sharp 167.82 - 167.83 : LC Lower Contact, 90 Deg to CA sharp</p> <p>Minor Interval: 173.53 - 174.02 6c, Oikocrystic Pyroxenite</p> <p>The unit consists of an altered (talc) pyroxenite with relict, biotized oikocrysts. The unit is moderately schistose, modertately magnetic with trace disseminated sulphides (po).</p> <p>The upper and lower contacts are sharp at near 90 and 68 degrees tca, respectively.</p> <p>Structure 173.67 - 173.68 : UC Upper Contact, 68 Deg to CA sharp 174.01 - 174.02 : LC Lower Contact, 90 Deg to CA sharp</p>							

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From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
180.92	187.04	6e, Ultramafic Schist	PG00452	180.92	181.87	0.95	0.0500	0.0250	0.0100
		This unit is a fine grained, schistose, altered (talc) ultramafic with trace biotite. Cm- to dm-scale fragments of anorthosite are observed in the unit. The unit is weakly to moderately magnetic, generally where mineralized. Over the entire length, the unit contains ~1% po (pent?). Locally, (cm-scale) mineralization can be up to 2% po (pent?). Sulfides are disseminated and also occur as stringers. The upper and lower contacts are sharp at 61 and 88 degrees to tca, respectively. Mineralization 180.92 - 187.04 : Po Pyrrhotite, D Disseminated, 1% pent? 182.40 - 183.12 : Po Pyrrhotite, STR Stringers, 2% pent? Structure 180.92 - 180.93 : UC Upper Contact, 61 Deg to CA sharp 187.03 - 187.04 : LC Lower Contact, 88 Deg to CA sharp RQD 183.00 - 186.00 : 97.00 % RQD 100.00 % Core 186.00 - 189.00 : 96.00 % RQD 100.00 % Core	PG00453	181.87	182.87	1.00	0.0250	0.0250	0.0100
			PG00454	182.87	183.37	0.50	0.0250	0.0250	0.0100
			PG00455	183.37	183.77	0.40	0.0250	0.0250	0.0100
			PG00456	183.77	184.77	1.00	0.0250	0.0250	0.0100
			PG00457	184.77	185.77	1.00	0.0250	0.0250	0.0100
			PG00458	185.77	186.67	0.90	0.0250	0.0250	0.0100
			PG00459	186.67	187.07	0.40	0.0250	0.0250	0.0100

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From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
187.04	193.54	4s, Sausseritized/Tectonized Anorthosite	PG00460	187.07	188.48	1.41	0.0250	0.0250	0.0100
		This unit contains patchy to pervasive (banded) saussuritization, hematization, epidotization and possibly sericitization. The unit contains 65-80% plagioclase (variably altered) and 20-35% alteration minerals (chlorite, hematite, sericite?, fuchsite?) and mafic minerals.	PG00461	188.48	188.85	0.37	0.0250	0.0250	0.0100
		This unit contains dm- to m-scale mafic and ultramafic (schist) dykelets which are generally well-foliated, fine grained, light to dark green to gray (ultramafic schists), homogenous units that locally contain trace disseminated pyrrhotite. See minor units for intervals as well as contact relationships.	PG00462	188.85	190.19	1.34	0.0250	0.0250	0.0100
			PG00463	190.19	190.50	0.31	0.0500	0.0250	0.0100
		Upper and lower contacts are sharp at near 90 degrees tca. Structure 187.04 - 187.05 : UC Upper Contact, 90 Deg to CA sharp 188.00 - 188.01 : Sm General Foliation, 76 Deg to CA strong 193.53 - 193.54 : LC Lower Contact, 90 Deg to CA sharp RQD 189.00 - 192.00 : 97.00 % RQD 100.00 % Core 192.00 - 195.00 : 98.00 % RQD 100.00 % Core MINOR INTERVALS: Minor Interval: 190.19 - 190.5 6e, Ultramafic Schist Mineralization 190.19 - 190.50 : Po Pyrrhotite, D Disseminated, 1% Minor Interval: 190.91 - 191.23 6e, Ultramafic Schist This unit is a fine grained, schistose, altered (talc) ultramafic with trace biotite. The unit is weakly to moderately magnetic, generally where mineralized. Over the entire length, the unit contains ~2% po (pent?). Sulfides are disseminated and also occur as stringers. The upper and lower contacts are sharp at near 90 and 87 degrees tca, respectively. Mineralization 190.91 - 191.23 : Po Pyrrhotite, D Disseminated, 1% 190.91 - 191.23 : Po Pyrrhotite, STR Stringers, 1% Structure 190.91 - 190.92 : UC Upper Contact, 90 Deg to CA sharp 191.22 - 191.23 : LC Lower Contact, 87 Deg to CA sharp	PG00464	190.50	190.91	0.41	0.0250	0.0250	0.0100
			PG00465	190.91	191.23	0.32	0.0500	0.0600	0.0100
			PG00466	191.23	191.81	0.58	0.0250	0.0250	0.0100
			PG00467	191.81	192.33	0.52	0.0250	0.0250	0.0100
			PG00468	192.33	192.73	0.40	0.0250	0.0250	0.0100
			PG00469	192.73	193.54	0.81	0.0250	0.0250	0.0100

Hole Number: ES2006-51

Units: METRIC

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		<p>MINOR INTERVALS: Minor Interval: 191.81 - 192.33 6e, Ultramafic Schist This unit is a fine grained, schistose, altered (talc) ultramafic with trace biotite. The unit is weakly to moderately magnetic, generally where mineralized.</p> <p>Over the entire length, the unit contains ~0.5% po (pent?). Sulfides are disseminated.</p> <p>The upper and lower contacts are sharp at near 90 degrees tca.</p> <p>Mineralization 191.81 - 192.33 : Po Pyrrhotite, D Disseminated, 0.5%</p> <p>Structure 191.81 - 191.82 : UC Upper Contact, 90 Deg to CA sharp 192.32 - 192.33 : LC Lower Contact, 90 Deg to CA sharp</p>							
193.54	196.83	<p>MD, Mafic Dike Fine-grained dark gray to greenish-black, non-magnetic, homogeneous, finely foliated mafic rock, composed of amphibole/pyroxene, chlorite, and alteration minerals (locally epidotized). Mm- to cm-scale quartz veining is observed throughout. Cm-scale fragments of anorthosite are also observed throughout.</p> <p>The upper contact is sharp at near 90 degrees tca and the lower contact is sharp at 88 degrees tca.</p> <p>Structure 193.67 - 193.68 : UC Upper Contact, 90 Deg to CA sharp 196.82 - 196.83 : LC Lower Contact, 88 Deg to CA sharp</p> <p>RQD 195.00 - 198.00 : 98.00 % RQD 100.00 % Core</p>	PG00470	193.54	193.85	0.31	0.0250	0.0250	0.0100

DETAILED LOG

Hole Number: ES2006-51

Units: METRIC

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
196.83	203.82	4s, Sausseritized/Tectonized Anorthosite This unit contains patchy to pervasive (banded) sausseritization, epidotization and possibly sericitization. The unit contains 65-80% plagioclase (variably altered) and 20-35% alteration minerals (chlorite, sericite?, fuchsite?) and mafic minerals. The unit is strongly foliated. Quartz veining increases towards the lower contact. The upper and lower contacts are sharp at 88 degrees tca. Structure 196.83 - 196.84 : UC Upper Contact, 88 Deg to CA sharp 201.00 - 201.01 : Sm General Foliation, 81 Deg to CA strong 203.81 - 203.82 : LC Lower Contact, 88 Deg to CA sharp RQD 198.00 - 201.00 : 97.00 % RQD 100.00 % Core 201.00 - 204.00 : 99.00 % RQD 100.00 % Core							

Hole Number: ES2006-51

Units: METRIC

Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
203.82	249.00	<p>10d, Volcaniclastics</p> <p>Overall fine-grained (locally very fine-grained and locally coarser), well-foliated, lineated, green to grey, weakly magnetic mafic metavolcanic composed of 15-20% white plagioclase within a mafic groundmass (predominantly chlorite, sericite, pyroxenes, biotite?, some epidote proximal to quartzofeldspathic veinlets.). This unit contains 1-3% mm-scale, white quartzofeldspathic veinlets (parallel to foliation). Mineralogical constituents fluctuate on a dm-scale, with more mafic sections (biotite-bearing) and more felsic horizons (very fine-grained).</p> <p>Variable grain size may indicate alternation between flows and volcaniclastics. Some coarser bands may represent near-surface intrusive bodies.</p> <p>Interpretation: Mafic metavolcanics, tuffs?; Late Proterozoic meta volcanics outside of anorthositic "Espedalen Complex".</p> <p>Structure</p> <p>217.50 - 217.51 : Sm General Foliation, 90 Deg to CA strong</p> <p>RQD</p> <p>204.00 - 207.00 : 100.00 % RQD 100.00 % Core</p> <p>207.00 - 210.00 : 96.00 % RQD 100.00 % Core</p> <p>210.00 - 213.00 : 99.00 % RQD 100.00 % Core</p> <p>213.00 - 216.00 : 99.00 % RQD 100.00 % Core</p> <p>216.00 - 219.00 : 100.00 % RQD 100.00 % Core</p> <p>219.00 - 222.00 : 97.00 % RQD 100.00 % Core</p> <p>222.00 - 225.00 : 99.00 % RQD 100.00 % Core</p> <p>225.00 - 228.00 : 99.00 % RQD 100.00 % Core</p> <p>228.00 - 231.00 : 97.00 % RQD 100.00 % Core</p> <p>231.00 - 234.00 : 95.00 % RQD 100.00 % Core</p> <p>234.00 - 237.00 : 97.00 % RQD 100.00 % Core</p> <p>237.00 - 240.00 : 94.00 % RQD 100.00 % Core</p> <p>240.00 - 243.00 : 93.00 % RQD 100.00 % Core</p> <p>243.00 - 246.00 : 97.00 % RQD 100.00 % Core</p> <p>246.00 - 249.00 : 57.00 % RQD 100.00 % Core</p>							

Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
PG00433	96.99	98.05	0.0250	0.0250	0.0100
PG00434	98.05	98.37	0.2200	0.0250	0.0100
PG00435	98.37	99.55	0.0250	0.0250	0.0100

Hole Number: ES2006-51

Units: METRIC

Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
PG00436	99.55	99.88	0.4600	0.2600	0.0100
PG00437	99.88	100.48	0.0250	0.0250	0.0100
PG00438	100.48	100.83	0.0250	0.0250	0.0100
PG00439	100.83	101.11	0.0250	0.0250	0.0100
PG00440	101.11	102.55	0.0250	0.0250	0.0100
PG00441	102.55	102.95	0.0250	0.0250	0.0100
PG00442	102.95	104.14	0.0250	0.0250	0.0100
PG00443	104.14	104.44	0.0250	0.0250	0.0100
PG00444	104.44	105.09	0.0250	0.0250	0.0100
PG00445	105.09	105.39	2.3200	0.5800	0.0700
PG00446	105.39	106.38	0.0250	0.0250	0.0100
PG00451	179.48	180.92	0.0250	0.0250	0.0100
PG00452	180.92	181.87	0.0500	0.0250	0.0100
PG00453	181.87	182.87	0.0250	0.0250	0.0100
PG00454	182.87	183.37	0.0250	0.0250	0.0100
PG00455	183.37	183.77	0.0250	0.0250	0.0100
PG00456	183.77	184.77	0.0250	0.0250	0.0100
PG00457	184.77	185.77	0.0250	0.0250	0.0100
PG00458	185.77	186.67	0.0250	0.0250	0.0100
PG00459	186.67	187.07	0.0250	0.0250	0.0100
PG00460	187.07	188.48	0.0250	0.0250	0.0100
PG00461	188.48	188.85	0.0250	0.0250	0.0100
PG00462	188.85	190.19	0.0250	0.0250	0.0100
PG00463	190.19	190.50	0.0500	0.0250	0.0100
PG00464	190.50	190.91	0.0250	0.0250	0.0100
PG00465	190.91	191.23	0.0500	0.0600	0.0100
PG00466	191.23	191.81	0.0250	0.0250	0.0100
PG00467	191.81	192.33	0.0250	0.0250	0.0100
PG00468	192.33	192.73	0.0250	0.0250	0.0100
PG00469	192.73	193.54	0.0250	0.0250	0.0100
PG00470	193.54	193.85	0.0250	0.0250	0.0100