Bergvesenet

Postboks 3021, N-7441 Trondheim

Rapportarkivet

Bergvesenet rapport nr	Intern Journal nr	Internt arkiv nr	Rapport lokalisering	Gradering
BV 4967	06/00131			**Fortrolig**
Kommer fra ..arkiv	Ekstern rapport nr	Oversendt fra	Fortrolig pga Muting	Fortrolig fra dato:

Tittel

Report of Exploration Activities Diamond Drilling Seljeasen (Seljeåsen) property
Appendix C2 contain drill logs for ES 07-06 to ES 07-10

Forfatter	Dato År	Bedrift (Oppdragsgiver og/eller oppdragstaker)
Foy, Rob	01.03 2008	Blackstone Nickel NUF Sulfidmalm AS

Kommune	Fylke	Bergdistrikt	1: 50 000 kartblad	1: 250 000 kartblad
Froland Arendal	Aust-Agder		16114	Arendal

Fagområde	Dokument type	Forekomster (forekomst, gruvefelt, undersøkelsesfelt)
Geofysikk Boring		Seljeåsen

Råstoffgruppe	Råstofftype
Malm/metall	Ni Cu

Sammendrag, innholdsfortegnelse eller innholdsbeskrivelse

In 2007, 10 exploration tardiamond drillholes SE 07-01 to SE 07-10, totally 1 645m were comleted on the Seljeåsen Prperty targeting Ni-Cu massive sulphides.
The work was initiated following successful result of ground UTEM survey conducted by Sulfidmalm in 2006.
The drilling targets are divided in two areas:
Seljeåsen east gabbro, 5 holes and
Seljeåsen West gabbro, 5 holes

Assays are presented in the appendix A within report BV 4965
Drill sections are presented in the appendix B within report BV 4965

Appendix C1 contain drill logs for ES 07-01 to ES 07-05 se report no BV 4966

APPENDIX C -- DRILL LOGS

ES07-06 – ES07-10

DETAILED LOG

Hole Number: **SE07-06**

Units: METRIC

Project Name:	Norway - South Norway	Primary Coordinates	Grid: UTM84-32N	Destination Coordinates	Grid: UTM:	Collar Dip:	-40.00
Project Number:	203	North:	6481703.00	North:	58.48	Collar Az:	105.00
Location:	Seljasen West	East:	478372.00	East:	8.63	Length:	96.31 (m)
		Elev:	105.00	Elev:	105.00	Start Depth:	0.00 (m)
Date Started:	Mar 22, 2007	Collar Survey:	N	Plugged:	N	Contractor:	Arctic Drilling A/S	Final Depth:	96.31 (m)
Date Completed:	Mar 24, 2007	Multishot Survey:	N	Hole Size:	TT46	Core Storage:			
Logged By:	sgnor	Pulse EM Survey:	N	Casing:					

Comments: Testing UTEM conductor & weak magnetic high; Intersected 20% banded disseminated Po @ 45.6-53.3m which had strong conductivity within sulphide bands, very little Pn-Cpy seen.

Sample Averages

Average Type	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
WEIGHTED	40.30	41.70	1.40	0.0221	0.0247	0.0089
WEIGHTED	45.60	51.00	5.40	0.0204	0.0235	0.0090
WEIGHTED	49.00	50.00	1.00	0.0260	0.0280	0.0090

Detailed Lithology

From (m)	To (m)	Lithology	Assay Data: Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	2.20	**CAS, Casing**							
2.20	3.30	**SCH, Schist** Black biotite schist with 5% patchy serecite (possibly after relict plagioclase) and 2% quartz **Alteration** 2.20 - 3.30 :Sil Silica, D Disseminated, W Weak <2% and manifest as little quartz blebs (<1cm in diam) **Structure** 2.20 - 3.30 : CL Cleavage, 20 Deg to CA Folation within schist, very strong								

DETAILED LOG

Hole Number: **SE07-06**

Units: METRIC

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
3.30	6.20	**GAB, Gabbro** Dark green very coarse-grained plag-px/amph gabbro; initially quite fresh and massive looking but becoming becoming increasingly chloritised downhole; gradational upper and lowr contacts **Texture** 4.60 - 6.20 : FG Fine Grained Rock appears to be becoming fine grained but probably chl alteration destroying texture 3.30 - 4.60 : CG Coarse Grained Relatively fresh rock **Alteration** 5.80 - 6.20 :BI Biotite, D Disseminated, W Weak 5% biotite clots gradually increasing in intensity downhole 4.60 - 6.20 :CHL Chlorite, P Pervasive, M Moderate Increases in intensity and destroys texture downhole **Structure** 4.40 - 4.45 : F Fractured, 25 Deg to CA Chlorite-filled fracture 6.00 - 6.20 : F Fractured, 5 Deg to CA No filling in fracture								
6.20	16.10	**SCH, Schist** Generally black/green/white coarse-grained biotite schist with some barren grey translucent qtz veins (<10cm thick), medium-grained chlorite-sericite zone at 11.9-13.5m **Alteration** 6.20 - 16.10 :Q Quartz, INT Interstitial, M Moderate Weak to moderate qtz alteration - manifest as large patches (<5cm) with large crystals (<5cm) of biotite in them 11.90 - 13.50 :SE Sericite, PCH Patchy, M Moderate Dominates where there is no chlorite 11.90 - 13.50 :CHL Chlorite, P Pervasive, M Moderate Moderate chloritisations throughout **Structure** 6.20 - 16.10 : CL Cleavage, 45 Deg to CA Not a very well developed foliation 15.30 - 15.40 : VN Veins, 55 Deg to CA Sharp contacts								

Hole Number: **SE07-06**

Units: METRIC

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
16.10	29.60	**GAB, Gabbro** Dark green/white very coarse-grained gabbri, moderately silicified and chloritised (patchy in distribution), locally got well developed 'graphic' texture, relatively massive, weak-moderate patchy chlorite alteration **Texture** 22.10 - 23.60 : PEG Pegmatitic More of a graphic texture than pegmatitic but looks like the gabbro has been recrystalised with fine grained angular chlorite clots (1-2cm) interspersed with a qtz-se matrix (about 45% of each) with 5% muscovite overprinting everything 16.10 - 19.50 : PEG Pegmatitic More of a graphic texture than pegmatitic but looks like the gabbro has been recrystalised with fine grained angular chlorite clots (1-2cm) interspersed with a qtz-se matrix (about 45% of each) with 5% muscovite overprinting everything **Alteration** 29.10 - 29.60 :Q Quartz, INT Interstitial, W Weak Forming small discontinuous bands and blebs 16.10 - 25.50 :BIO Biotite, D Disseminated, W Weak 2-5% disseminated biotite throughout 16.10 - 25.50 :CHL Chlorite, P Pervasive, M Moderate All Px-Amph has been altered to chlorite 16.10 - 25.50 :Q Quartz, INT Interstitial, W Weak Forming thing veinlets and grains (1cm) in sericite matrix **Structure** 18.70 - 18.75 : F Fractured, 45 Deg to CA Chlorite filled fracture 19.20 - 19.35 : VN Veins, 55 Deg to CA Barren white translucent qtz vein 22.15 - 22.30 : F Fractured, 15 Deg to CA Jagged thin (0.5mm) qtz-filled fracture 25.05 - 25.10 : VN Veins, 65 Deg to CA Barren white translucent qtz vein						

DETAILED LOG

Hole Number: **SE07-06**

Units: METRIC

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
29.60	32.60	**PYXT, Pyroxenite** Green/grey fine grained weakly banded pyroxenite, moderately-strongly silicified, chlorite-alteration increases after 32.1m, local patches of Tr-1% disseminated Po (weakly magnetic), grdational upper and lower contacts **Texture** 32.10 - 32.60 : FG Fine Grained Probably due to increasing chloritisation **Mineralization** 29.60 - 32.60 Fine-medium-grained disseminations, usually associated with Po and only visible aroud thing spidery fractures 29.60 - 32.60 Possible fine grained disseminations asosciated with Bt-Po 29.60 - 32.60 : PO Pyrrhotite, DIS Disseminated, 1% Very fine grained disseminations usually assoc with biotitie, locally remobilised along thin spidery fractures **Alteration** 32.10 - 32.60 :CHL Chlorite, P Pervasive, S Strong Texture-destroying 29.60 - 32.10 :BIO Biotite, D Disseminated, W Weak Fine grained disseminations throughout 29.60 - 32.10 :Qtz Quartz, B Banded, M Moderate Weak to moderate qtz banding throughout **Structure** 29.60 - 32.10 : GN Gneissic, 75 Deg to CA Defined by diffuse and discontinuous qtz banding (<3mm thick) 30.50 - 30.60 : F Fractured, 40 Deg to CA Remobilised Po-Cpy along a thin fracture						

DETAILED LOG

Hole Number: **SE07-06**

Units: METRIC

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
32.60	40.30	**GAB, Gabbro** MAFIC GNEISS: Looks more like a sheared and foliated gabbro then a true gneiss; Dark green fine-coarse grained banded gabbro with diffuse quartz defining the banding until after 46.6m where it abruptly becomes sulphides defining the banding. Po-Pn-Cpy concentrations pick up from Tr-2% to 10-20% between 40.6-54.0m; gradational contacts **Mineralization** 32.60 - 40.30 : PO Pyrrhotite, DIS Disseminated, 2% Tr-2% fine grained disseminated Po usually associated with fine grained disseminated bt **Alteration** 32.60 - 40.30 :BIO Biotite, D Disseminated, W Weak Fine grained disseminations 32.60 - 40.30 :Q Quartz, B Banded, M Moderate Diffuse and forming discontinuous bands in mafic/?gabbro **Structure** 34.00 - 35.00 : GN Gneissic, 60 Deg to CA genissic banding 36.00 - 37.00 : GN Gneissic, 70 Deg to CA gneissic banding	PG06421	38.70	39.70	1.00	0.0060	0.0025	0.0030

Hole Number: **SE07-06**

Units: METRIC

Detailed Lithology

From (m)	To (m)	Lithology
40.30	63.60	**SED, Sediment** Fine-medium grained green mafic sediments?, relatively massive but 20% sulphdies define banding between 46.5-53.3m, moderately chloritised, moderate silicification after 45.6m and gradually becoming strong towards bottom of interval; start to see 5-10% red ?almandine garnet clusters (?replacing plag???) after 62.7m, diffuse contacts **Texture** 54.60 - 58.40 : FG Fine Grained 41.70 - 45.60 : FG Fine Grained **Mineralization** 40.30 - 43.10 Possible fine grained disseminations 40.30 - 43.10 : PO Pyrrhotite, DIS Disseminated, 15% Dominantly fine grained disseminations but locally remobilised into discontinuous bands (<5mm thick) 43.10 - 45.60 : PO Pyrrhotite, DIS Disseminated, 5% Fine grained disseminations 45.60 - 53.30 : PO Pyrrhotite, DIS Disseminated, 20% 15-18%Po, 1%Pn, TR-1%Cpy, Fine grained disseminations overprinting host rock, generally forming discontinuous thin smeared bands (<5mm thick) and locally coarse-grained blebs (0.3-1cm); supsect a lot of the sulphide has been remob but very uniform in distribution; sulphide usually assoc with little crystals of biotite - possibly indicating the sulphides have been remobilised/recrystalised in association with the event which caused the bt-rich faults 53.30 - 54.60 Trace amounts of very fine-grained Po, interval only weakly and patchily magnetic 54.60 - 58.40 : PO Pyrrhotite, DIS Disseminated, 1% 1% Po generally remobilised along spidery thin fractures or as fine grained disseminations **Alteration** 62.80 - 63.60 :ALT Alteration, PCH Patchy, W Weak 5-10% reddish garnet (?almandine) seemingly replacing plagioclase in the rock 61.20 - 63.60 :CHL Chlorite, P Pervasive, W Weak Weak to moderate 58.40 - 61.20 :Q Quartz, PCH Patchy, M Moderate Defining diffuse banding in rock 58.40 - 61.20 :SII Silica, P Pervasive, S Strong Diffuse and making rock very grey and hard 46.60 - 55.00 :BIO Biotite, D Disseminated, W Weak Fine grained disseminations

Assay Data

Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
PG06423	40.30	40.80	0.50	0.0220	0.0220	0.0070
PG06441	40.80	41.30	0.50	0.0200	0.0240	0.0100
PG06442	41.30	41.70	0.40	0.0250	0.0290	0.0100
PG06424	41.70	42.40	0.70	0.0090	0.0080	0.0030
PG06425	42.40	43.10	0.70	0.0090	0.0090	0.0040
PG06426	43.10	44.10	1.00	0.0070	0.0060	0.0030
PG06427	44.10	44.80	0.70	0.0080	0.0060	0.0030
PG06428	44.80	45.60	0.80	0.0070	0.0070	0.0030
PG06429	45.60	47.00	1.40	0.0180	0.0220	0.0070
PG06430	47.00	48.00	1.00	0.0210	0.0250	0.0090
PG06431	48.00	49.00	1.00	0.0210	0.0240	0.0090
PG06432	49.00	50.00	1.00	0.0260	0.0280	0.0090
PG06433	50.00	51.00	1.00	0.0170	0.0190	0.0120
PG06434	51.00	52.00	1.00	0.0130	0.0150	0.0050
PG06435	52.00	53.00	1.00	0.0130	0.0110	0.0070
PG06436	53.00	53.30	0.30	0.0140	0.0160	0.0060
PG06438	53.30	53.80	0.50	0.0050	0.0025	0.0030
PG06439	53.80	54.80	1.00	0.0050	0.0025	0.0030

DETAILED LOG

Hole Number: **SE07-06**

Units: METRIC

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		Alteration 46.60 - 58.40 :Sil Silica, PCH Patchy, M Moderate Generally pervasive but starting to appear as diffuse silicious bands after50.9m **Structure** 43.90 - 43.92 : VN Veins, 40 Deg to CA Barren qtz vein 43.90 - 53.30 : FOL Foliated, 55 Deg to CA Sulphide bands - very uniform in orientation 56.50 - 57.50 Fine qtz-sulphide stockwork comprising 2-5% wispy veins (<0.5mm thick), random orientations 59.60 - 60.60 : GN Gneissic, 35 Deg to CA gneissic looking banding 61.20 - 61.22 : VN Veins, 40 Deg to CA White quartz vein, contact cut by parallel chlorite fractures 63.59 - 63.60 : LC Lower Contact, 45 Deg to CA Gradational - quite hard to see as gabbro seems to have an altered chilled margin							

Hole Number: **SE07-06**

Units: METRIC

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
63.60	92.10	**FGN, Felsic Gneiss** Black/white/grey intermediate gneiss, banding defined by alternating thin bands (<3mm thick) of diffuse qtz (45%) and chlorite-bt layers (45%), blotchy overprinting by pink-red altered ?almandine garnets (5%) or pale brown muscovite-sericite (5%), no sulphides **Alteration** 63.60 - 91.50 :SE Sericite, PCH Patchy, W Weak <5%, more destruction of plag 89.50 - 91.50 :ALT Alteration, PCH Patchy, W Weak 5-10% patchy reddish-pink ?Almandine forming blotchy clusters up 0.8-4cm in size 63.60 - 82.70 :ALT Alteration, PCH Patchy, W Weak 5-10% patchy reddish-pink ?Almandine forming blotchy clusters up 0.8-4cm in size **Structure** 63.60 - 65.00 : GN Gneissic, 40 Deg to CA 71.00 - 71.60 : GN Gneissic, 35 Deg to CA 76.30 - 80.70 : GN Gneissic, 60 Deg to CA 76.50 - 76.60 : VN Veins, 25 Deg to CA Lone wispy qtz-carb veinlet 83.70 - 88.00 : GN Gneissic, 65 Deg to CA **MINOR INTERVALS:** **Minor Interval:** 69.7 - 70.7 PYXT, Pyroxenite Pale green, very fine grained chl-si altered unit, gradational upper and lower contacts, pretty massive (could be an altered diabase dyke???) **Alteration** 69.70 - 70.70 :SE Sericite, P Pervasive, W Weak 69.70 - 70.70 :CHL Chlorite, P Pervasive, M Moderate **Minor Interval:** 72.9 - 75.7 DIA, Diabase Fine grained medium green ?diabase dyke - defined more by an absence of qtz and banding and reasonably sharp contacts than anything else... **Alteration** 72.90 - 75.70 :CHL Chlorite, P Pervasive, W Weak **Structure** 72.90 - 72.93 : UC Upper Contact, 55 Deg to CA Somewhat diffuse - defined by dop off in qtz banding 75.65 - 75.70 : LC Lower Contact, 55 Deg to CA Somewhat diffuse - but does abruptly cut off garnet alt from underlying unit								

DETAILED LOG

Hole Number: **SE07-06** Units: METRIC

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
92.10	93.70	**PEG, Pegmatite** White/green/black very coarse grained pegmatite dyke; qtz (brecciated and healed), biotite-chlorite staining and possible ?aplite (apple green), sharp contacts **Alteration** 92.10 - 93.70 :CHL Chlorite, ST Staining, W Weak **Structure** 92.10 - 92.14 : UC Upper Contact, 35 Deg to CA Little bit blocky with large crystals of secondary biotite diffusing contact 93.65 - 93.70 : LC Lower Contact, 80 Deg to CA sharp							
93.70	96.30	**FGN, Felsic Gneiss** Black/white/grey intermediate gneiss, banding defined by alternating thin bands (<3mm thick) of diffuse qtz (45%) and chlorite-bt layers (45%), blotchy overprinting by pink-red altered ?almandine garnets (5%) or pale brown muscovite-sericite (5%), no sulphides **Alteration** 95.40 - 96.00 :Alb Albite, F Fracture Controlled, W Weak Pale orange-brown albite as a halo around qtz vein **Structure** 93.70 - 96.30 : GN Gneissic, 55 Deg to CA Banding varies between 55 and 65 degrees to CA 95.40 - 96.00 : VN Veins, 5 Deg to CA Wispy thin qtz+/-chl veinlets							
96.30	96.31	**EOH, End of Hole**							

Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type **ASSAY**					
PG06421	38.70	39.70	0.0060	0.0025	0.0030
PG06422	39.70	40.30	0.0120	0.0120	0.0040
PG06423	40.30	40.80	0.0220	0.0220	0.0070
PG06441	40.80	41.30	0.0200	0.0240	0.0100
PG06442	41.30	41.70	0.0250	0.0290	0.0100
PG06424	41.70	42.40	0.0090	0.0080	0.0030
PG06425	42.40	43.10	0.0090	0.0090	0.0040
PG06426	43.10	44.10	0.0070	0.0060	0.0030
PG06427	44.10	44.80	0.0080	0.0060	0.0030
PG06428	44.80	45.60	0.0070	0.0070	0.0030
PG06429	45.60	47.00	0.0180	0.0220	0.0070
PG06430	47.00	48.00	0.0210	0.0250	0.0090

DETAILED LOG

Hole Number: **SE07-06**

Units: METRIC

Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type **ASSAY**					
PG06431	48.00	49.00	0.0210	0.0240	0.0090
PG06432	49.00	50.00	0.0260	0.0280	0.0090
PG06433	50.00	51.00	0.0170	0.0190	0.0120
PG06434	51.00	52.00	0.0130	0.0150	0.0050
PG06435	52.00	53.00	0.0130	0.0110	0.0070
PG06436	53.00	53.30	0.0140	0.0160	0.0060
PG06438	53.30	53.80	0.0050	0.0025	0.0030
PG06439	53.80	54.80	0.0050	0.0025	0.0030

DETAILED LOG

Hole Number: **SE07-07**

Units: METRIC

Project Name:	Norway - South Norway	Primary Coordinates	Grid: UTM84-32N	Destination Coordinates	Grid: UTM:	Collar Dip:	-60.00
Project Number:	203	North:	6481497.00	North:	58.47	Collar Az:	250.00
Location:	Seljasen West	East:	478283.00	East:	8.63	Length:	160.01 (m)
		Elev:	130.00	Elev:	130.00	Start Depth:	0.00 (m)
Date Started:	Mar 25, 2007	Collar Survey:	N	Plugged:	Y	Contractor:	Arctic Drilling A/S	Final Depth:	160.01 (m)
Date Completed:		Multishot Survey:	N	Hole Size:	TT46	Core Storage:			
Logged By:	sgnor	Pulse EM Survey:	N	Casing:					

Comments: Drilled to test coincident UTEM plate and moderate magnetic anomaly; drilled through gabbro into metasediments with no significant mineralisation; but two horizons of semi-massive Po-Py at a103.1-104.3m & 138.9-140.2m re highly conductive and explain UTEM conductor/Aeromag anomalies.

Sample Averages

Average Type	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
WEIGHTED	57.40	58.10	0.70	0.0190	0.0600	0.0510
WEIGHTED	97.70	105.70	8.00	0.0230	0.0490	0.0158
WEIGHTED	99.50	101.40	1.90	0.0318	0.0743	0.0152
WEIGHTED	136.40	140.20	3.80	0.0194	0.0210	0.0095

Detailed Lithology

From (m)	To (m)	Lithology	Assay Data: Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	1.00	**CAS, Casing**							
1.00	1.30	**GAB, Gabbro** Dark green-grey medium-coarse grained gabbro, fresh, massive, sharp lower contact with underlying unit **Alteration** 1.00 - 1.30 :CHL Chlorite, P Pervasive, W Weak Slightly destroying texture **Structure** 1.29 - 1.30 : LC Lower Contact, 90 Deg to CA Very sharpn contact							
1.30	7.80	**PEG, Pegmatite** Pale white/green, very coarse-grained, blocky qtz-chl-bt+/-?aplite pegmatite dyke, very sharp contacts with gabbro, cross-cut and interweaves with a barren qtz vein, weak chlorite staining - patchy **Alteration** 1.30 - 3.80 :CHL Chlorite, ST Staining, W Weak **Structure** 7.79 - 7.80 : LC Lower Contact, 90 Deg to CA Very sharp **MINOR INTERVALS:** **Minor Interval:** 1.3 - 3.8 QZT, Quartzite Massive translucent white vein, absolutely barren, contains some frag of pegmatite - probably entwined, very blocky contacts							

Hole Number: **SE07-07**

Units: METRIC

Detailed Lithology

From (m)	To (m)	Lithology
7.80	79.10	**GAB, Gabbro** Dark green, very coarse-grained plag-amph/px gabbro with 5% med brown mica (?bt), very fresh and unaltered, cross-cut by rare white qtz veinlets (<3mm thick), blebby and patchy Po-Py (5-20%) at 47.1-67.9m **Mineralization** 57.00 - 57.40 : PY Pyrite, D Disseminated, 8% Coarse-grained disseminations, overprinting much 57.00 - 57.40 : PO Pyrrhotite, D Disseminated, 2% Fine grained disseminations making interval locally magnetic 75.10 - 79.10 Trace fine grained disseminations, patchy in distribution, interval generally weakly mgnetic 74.70 - 75.10 : PY Pyrite, BL Blebby, 3% 2-3% coarse-grained blebs of ?Py, enclosed in Po 74.70 - 75.10 : PO Pyrrhotite, BL Blebby, 3% 3% coarse-grained blebs of Po in very fresh gabbro 73.80 - 74.70 Very fine grained dissemlantions, interval weakly magnetic 61.90 - 73.50 Must be there as fine grained disseminations as the interval is intermittently quite magnetic 73.50 - 73.80 : PY Pyrite, BL Blebby, 5% 5% irregular blebs of py, seem to be associated with a qtz-rich patch in the rock 61.90 - 73.50 Very fine grained disseminations, patchily distributed 60.70 - 61.90 : PO Pyrrhotite, D Disseminated, 2% 2% fine-medium grained Po, rare blebs of Py? 59.30 - 60.70 : PO Pyrrhotite, D Disseminated, 5% 5%Po (very magnetic) as fine-medium grained disseminations, locally concentration rises to 8-10% 58.90 - 59.30 No sulphides really - a blank spot 57.40 - 58.90 : PY Pyrite, SM Semi-Massive, 20% 20% semi-massive Py overprinting much of the rock; not magnetic 56.20 - 57.00 : PY Pyrite, FF Fracture Filling, 2% Tr-2% Py? either as fracture fill or occasionally fine-medium grained disseminations (is this Pn?), not magnetic 56.20 - 57.00 : PO Pyrrhotite, D Disseminated, 3% 2-3% Disseminated medium-coarse grained Po, locally remobilised into fractures 55.10 - 56.20 : PO Pyrrhotite, D Disseminated, 4% 2-4% fine-coarse grained Po, sometimes remobilised into fractures 55.10 - 56.20 : PY Pyrite, FF Fracture Filling, 1% 1% py remobilised into chl-filled fractures

Assay Data

Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
PG06443	46.40	47.40	1.00	0.0040	0.0025	0.0020
PG06444	47.40	47.90	0.50	0.0140	0.0100	0.0050
PG06445	47.90	48.80	0.90	0.0080	0.0080	0.0050
PG06446	48.80	49.50	0.70	0.0050	0.0025	0.0040
PG06447	49.50	50.40	0.90	0.0020	0.0025	0.0020
PG06448	50.40	50.80	0.40	0.0210	0.0110	0.0100
PG06449	50.80	51.80	1.00	0.0070	0.0025	0.0050
PG06450	51.80	52.10	0.30	0.0220	0.0100	0.0160
PG06451	52.10	52.80	0.70	0.0070	0.0025	0.0050
PG06452	52.80	53.40	0.60	0.0020	0.0025	0.0040
PG06453	53.40	54.40	1.00	0.0060	0.0025	0.0080
PG06454	54.40	55.10	0.70	0.0040	0.0025	0.0070
PG06455	55.10	56.20	1.10	0.0050	0.0070	0.0090
PG06456	56.20	56.60	0.40	0.0020	0.0025	0.0030
PG06457	56.60	57.00	0.40	0.0080	0.0150	0.0170
PG06458	57.00	57.40	0.40	0.0180	0.0230	0.0230
PG06459	57.40	58.10	0.70	0.0190	0.0600	0.0510
PG06461	58.10	58.50	0.40	0.0110	0.0170	0.0240
PG06462	58.50	58.90	0.40	0.0150	0.0180	0.0210
PG06463	58.90	59.20	0.30	0.0040	0.0070	0.0030
PG06464	59.20	59.50	0.30	0.0050	0.0100	0.0050
PG06465	59.50	60.20	0.70	0.0040	0.0060	0.0050
PG06466	60.20	60.70	0.50	0.0110	0.0170	0.0110
PG06467	60.70	61.60	0.90	0.0050	0.0070	0.0060
PG06468	61.60	61.90	0.30	0.0150	0.0220	0.0140
PG06469	61.90	62.40	0.50	0.0020	0.0025	0.0040
PG06470	62.40	63.40	1.00	0.0005	0.0025	0.0020
PG06471	72.00	73.00	1.00	0.0005	0.0025	0.0020
PG06472	73.00	73.50	0.50	0.0040	0.0025	0.0020
PG06473	73.50	73.80	0.30	0.0070	0.0080	0.0130
PG06474	73.80	74.70	0.90	0.0005	0.0025	0.0020
PG06475	74.70	75.10	0.40	0.0020	0.0060	0.0030
PG06476	75.10	75.60	0.50	0.0040	0.0080	0.0060
PG06477	75.60	76.60	1.00	0.0010	0.0025	0.0020

Hole Number: **SE07-07**

Units: METRIC

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		Mineralization 54.40 - 55.10 Trace very fine grained Po 53.40 - 54.40 : POPN Pyrrhotit/Pentlandite, BL Blebby, 5% 4%Po, 1%Pn? Large blebs (<2cm) of Po with occasional grains of Pn? 52.10 - 53.40 : POPN Pyrrhotit/Pentlandite, BL Blebby, 2% Tr-2%Po, Tr Pn? as fine-medium grained blebs (<3mm in size) interstitial to silicates, very patchy in distribution 48.80 - 50.40 : PO Pyrrhotite, D Disseminated, 1% Tr-1% fine grained moderately magnetic Po 50.80 - 52.10 : POPNCP Pyrrhotite/Pentlandite/Chalcopyrite, BL Blebby, 5% 4%Po, 1%?Pn, Tr Cpy, occurring as coarse-grained irregular shaped blebs; dominantly Po but seems to be some Pn creeping in last 20cm, Cpy enveloped in Po 50.40 - 50.80 Trace medium-grained Cpy enveloped in Po 50.40 - 50.80 : PO Pyrrhotite, BL Blebby, 5% 5% coarse-irregular shaped blebs (0.3-1cm) interstitial and occasionally overprinting silicates 47.90 - 48.80 : PO Pyrrhotite, BL Blebby, 5% 5% blebby Po-(py), blebs up to 1cm in size & interstitial/overprint silicates 47.40 - 47.90 : PO Pyrrhotite, D Disseminated, 1% 1% fine grained disseminated Po, moderately magnetic 47.40 - 47.90 : PY Pyrite, D Disseminated, 1% 1% fine grained disseminated Py 7.80 - 47.40 : PY Pyrite, FG Fine Grained, 0.01% Trace very fine grained disseminated Py? (rock not magnetic) **Alteration** 58.90 - 59.20 :Q Quartz, MO Mottled, W Weak Blobs of qtz creating a mottled texture 57.00 - 58.90 :CHL Chlorite, P Pervasive, M Moderate destroys gabbro texture **Structure** 9.60 - 9.80 : VN Veins, 5 Deg to CA Thin <1mm thick) qtz veinlet 10.37 - 10.40 : VN Veins, 40 Deg to CA Qtz vein, possible filling a fractur 11.80 - 11.81 : F Fractured, 40 Deg to CA Qtz-carn veinlet (<1mm thick) infilling fracture 16.60 - 16.61 : F Fractured, 35 Deg to CA Qtz carb veinlet probably infilling a fracture 29.40 - 29.50 : VN Veins, 10 Deg to CA Diffuse qtz veinlet (<3mm thick) 35.60 - 35.70 : VN Veins, 70 Deg to CA Translucent white-grey qtz vein with some large bt crystals								

Hole Number: **SE07-07**

Units: METRIC

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		Structure 38.60 - 38.70 : VN Veins, 40 Deg to CA Diffuse translucent qtz vein (only about 2cm thick) 55.35 - 55.40 : F Fractured, 55 Deg to CA Chl-Py filled fracture 55.80 - 55.90 : FOL Foliated, 85 Deg to CA Thin band of Py clots (3mm thick) 55.80 - 56.00 : F Fractured, 10 Deg to CA Chl-Py filled fracture 55.90 - 56.05 : VN Veins, 45 Deg to CA Very fractured qtz-chl-?aplite vein 56.70 - 56.75 : F Fractured, 60 Deg to CA Po-Py filled fracture (5mm thick) 57.10 - 57.11 : F Fractured, 80 Deg to CA Chl-filled fracture 65.90 - 65.95 : VN Veins, 40 Deg to CA Thin qtz veinlet (<1mm thick) 67.00 - 68.00 : F Fractured, 15 Deg to CA Conjugate chl-filled fractures (<1mm thick) 72.10 - 72.20 : F Fractured, 65 Deg to CA Small sequence of whispy chl-carb-filled fractures **MINOR INTERVALS:** **Minor Interval:** 36.3 - 36.6 PEG, Pegmatite Qtz-biotite-chl-?aplite dyke, weaves in and out of gabbro in this interval so suspect on periphery of it, never gets more than 5cm thick							
79.10	80.20	**PYXT, Pyroxenite** Dark green fine grained amph/px pyroxenite (80%) with 5-10% plag and 5-10% qtz which gradually increases downhole; pretty massive, weakly chlorite altered, chilled margin? **Alteration** 79.10 - 80.20 :CHL Chlorite, P Pervasive, W Weak **Structure** 80.15 - 80.20 : LC Lower Contact, 50 Deg to CA Somewhat diffuse contact, defined more by the appearance of qtz-sl bands in the unit below							

DETAILED LOG

Hole Number: **SE07-07**

Units: METRIC

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
80.20	87.30	**SED, Sediment** Medium grey silicious banded mafic medium-coarse grained sediments, banding defined by discontinuous diffuse qtz bands <5mm thick, 5-10% disseminated Po (strongly magnetic) locally forming thin bands <3mm thick) which fade out in last 30cm **Mineralization** 80.20 - 87.30 : PO Pyrrhotite, D Disseminated, 5% 5% disseminated Po, locally forming thin bands (<3mm thick) parallel to qtz banding **Alteration** 80.20 - 87.30 :Q Quartz, B Banded, M Moderate Diffuse, discontinuous and rarely more than 5mm thick 80.20 - 87.30 :Sil Silica, P Pervasive, M Moderate Texture destroying **Structure** 81.00 - 82.00 : FOL Foliated, 70 Deg to CA Qtz banding in interval 85.00 - 86.00 : FOL Foliated, 55 Deg to CA Qtz-Po banding in interval 86.80 - 86.85 : FOL Foliated, 45 Deg to CA Qtz-Po banding							

Hole Number: **SE07-07**

Units: METRIC

Detailed Lithology

From (m)	To (m)	Lithology
87.30	103.10	**SED, Sediment** Pale-medium grey fine-grained mafic metasediment with ~ 10-15% qtz clasts (diffuse, rounded, <1cm) and locally banding, moderately-strongly silicified; abundant Py-Po especially 97.8-104.3m with sulphide amounts of 30-40% - probably explains the conductor! **Mineralization** 102.00 - 103.10 : PY Pyrite, CG Coarse Grained, 2% 2% coarse-grained Py, irregular shaped <3mm in size 102.00 - 103.10 : PO Pyrrhotite, DIS Disseminated, 10% 10% fine grained disseminated Po 99.50 - 102.00 : PY Pyrite, BL Blebby, 5% 5% coarse-grained irregular-shaped blebs of Py 99.50 - 102.00 : PO Pyrrhotite, SM Semi-Massive, 30% 30% semi-massive or fine-grained disseminated Po 99.10 - 99.50 : PY Pyrite, VN Veins, 5% 5% massive Py associated with a qtz vein and infilling fractures in this interva 99.10 - 99.50 : PO Pyrrhotite, SM Semi-Massive, 20% 20% Po as either fine grained disseminations or irregular patches of semi-massive sulphide around qtz veins 97.70 - 99.10 : PY Pyrite, BL Blebby, 5% 5% irregular blebs of Py <2cm in size, appears to overprint Po 97.70 - 99.10 : PO Pyrrhotite, CG Coarse Grained, 15% 15% medium-coarse grained disseminated Po, locally becomes massive - but generally that is fracture controlled and fracture filling <3cm thick 93.00 - 97.70 : PY Pyrite, DIS Disseminated, 1% 1% medium-coarse grained blebby Py, usually enclosed in Po or more rarely along fracture surfaces 93.00 - 97.70 : PO Pyrrhotite, FG Fine Grained, 9% 9% very fine grained disseminated Po, quite magnetic 87.30 - 93.00 : PO Pyrrhotite, DIS Disseminated, 5% 5% disseminated Po, locally forming thin bands (<3mm thick) parallel to qtz banding **Alteration** 102.50 - 103.10 :BIO Biotite, Dis Disseminated, W Weak Defines a weak foliation 87.30 - 103.10 :Sil Silica, P Pervasive, M Moderate Moderate to strong silicification 87.30 - 103.10 :Q Quartz, PT Patchy, W Weak Up to 5% diffuse blobs of translucent grey qtz grains **Structure** 94.50 - 94.60 : FOL Foliated, 55 Deg to CA Small patch of qtz-Po banding 95.30 - 95.35 : F Fractured, 55 Deg to CA Po-Py filled fracture 96.90 - 97.00 : VN Veins, 25 Deg to CA Lone qtz stringer

Assay Data

Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
PG06478	91.50	92.50	1.00	0.0090	0.0190	0.0070
PG06479	92.50	93.00	0.50	0.0080	0.0150	0.0060
PG06481	93.00	94.00	1.00	0.0150	0.0230	0.0080
PG06482	94.00	95.00	1.00	0.0190	0.0370	0.0100
PG06483	95.00	96.00	1.00	0.0200	0.0390	0.0130
PG06484	96.00	97.00	1.00	0.0130	0.0260	0.0080
PG06485	97.00	97.70	0.70	0.0130	0.0240	0.0080
PG06486	97.70	98.40	0.70	0.0250	0.0470	0.0270
PG06487	98.40	98.70	0.30	0.0270	0.0460	0.0130
PG06488	98.70	99.10	0.40	0.0200	0.0340	0.0100
PG06489	99.10	99.50	0.40	0.0210	0.1460	0.0350
PG06490	99.50	99.90	0.40	0.0410	0.0840	0.0160
PG06491	99.90	100.90	1.00	0.0280	0.0810	0.0120
PG06492	100.90	101.40	0.50	0.0320	0.0530	0.0210
PG06493	101.40	102.00	0.60	0.0320	0.0640	0.0210
PG06494	102.00	102.50	0.50	0.0140	0.0240	0.0040

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Units: METRIC

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		Structure 98.50 - 98.70 Qtz vein, no sulphides in it, but surrounded by semi-massive Po 99.10 - 99.30 Very fractured qtz vein with Po OR Py infilling fractures (rarely both in the same fracture) 101.30 - 101.32 : F Fractured, 60 Deg to CA Blebby py sort of defining a partially infilled fracture 102.50 - 103.10 Sort of a foliation defined by ?bt							
103.10	104.30	**SMS, Semi Massive Sulphide** 50% semi-massive to massive Po with up to 50% of the rock comprising fine disseminations of the Po, 10% semi-massive Py, sometimes occurring as large (<5cm) irregular blebs and to a lesser extend as irregular-shaped coarse-grained disseminations; area between 103.6-104.0m where sulphide content drops to <10%; unit strongly conductive **Mineralization** 103.10 - 104.30 : PO Pyrrhotite, SM Semi-Massive, 50% 50% semi-massive to massive Po with up to 50% of the rock comprising fine disseminations of the Po 103.10 - 104.30 : PY Pyrite, SM Semi-Massive, 10% 10% semi-massive Py, sometimes occurring as large (<5cm) irregular blebs and to a lesser extend as irregular-shaped coarse-grained disseminations; area between 103.6-104.0m where sulphide content drops to <10%; unit strongly conductive **Alteration** 103.10 - 104.30 :Sil Silica, P Pervasive, M Moderate Moderate to strong silicification 103.10 - 104.30 :Q Quartz, PT Patchy, W Weak Up to 5% diffuse blobs of translucent grey qtz grains **Structure** 103.40 - 103.60 : FOL Foliated, 20 Deg to CA Some faint banding in the rock defined by qtz-po	PG06496	103.10	103.60	0.50	0.0330	0.0450	0.0410
			PG06497	103.60	103.90	0.30	0.0120	0.0170	0.0030

DETAILED LOG

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Units: METRIC

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
104.30	105.70	**SED, Sediment** **Mineralization** 105.10 - 105.70 : PY Pyrite, FG Fine Grained, 2% 2% medium-coarse grained blebs of Py 105.10 - 105.70 : PO Pyrrhotite, DIS Disseminated, 10% 10% fine grained disseminated Po 104.30 - 105.10 Tr fine grained disseminated Py 104.30 - 105.10 : PO Pyrrhotite, DIS Disseminated, 5% 5% fine grained disseminations **Alteration** 104.30 - 105.70 :Sil Silica, P Pervasive, M Moderate Moderate to strong silicification 104.30 - 105.70 :Q Quartz, PT Patchy, W Weak Up to 5% diffuse blobs of translucent grey qtz grains **Structure** 105.30 - 105.35 : FOL Foliated, 60 Deg to CA Small patch of banded qtz-sulphide	PG06501	104.30	105.10	0.80	0.0050	0.0050	0.0020
			PG06502	105.10	105.40	0.30	0.0150	0.0230	0.0050

DETAILED LOG

Hole Number: **SE07-07**

Units: METRIC

Detailed Lithology

From (m)	To (m)	Lithology
105.70	111.80	**GAB, Gabbro** Dark grey very coarse-grained plag(se)-amph ?gabbro, no silica/qtz evident, but the unit is partially sericitised, rare py along fracture surfaces, interval quite broken @ 107.2-109.0m, sharp upper contact, gradational lower contact **Texture** 107.20 - 109.00 : BC Broken Core Some competent fragments of core but generally quite broken up **Mineralization** 105.70 - 111.80 : PY Pyrite, FF Fracture Filling, 1% Large smears and blebs of Py associated with fracrures only 105.70 - 111.80 Can't really see much - but the interval is quite magnetic... **Alteration** 105.70 - 111.80 :BIO Biotite, D Disseminated, W Weak Makes the rock look a little spotted 105.70 - 111.80 :CHL Chlorite, P Pervasive, M Moderate Moderate to strong and destroying texture 105.70 - 111.80 :SE Sericite, D Disseminated, W Weak Possibly altered plag grains??? **Structure** 105.70 - 105.75 : UC Upper Contact, 30 Deg to CA Sharp 105.90 - 106.50 : FOL Foliated, 35 Deg to CA Defined by weak alignment of biotite 107.20 - 107.70 : F Fractured, 20 Deg to CA Numerous conjugate fractures breaking up the rock, maybe coated with thin layer of chl-py 108.70 - 109.00 : F Fractured, 20 Deg to CA Numerous conjugate fractures breaking up the rock, maybe coated with thin layer of chl-py 109.30 - 109.40 : VN Veins, 20 Deg to CA Thin (2mm thick) qtz-py veinlet 111.20 - 111.30 : F Fractured, 20 Deg to CA Chl-py coated fractures

Assay Data

Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
PG06504	105.70	106.20	0.50	0.0090	0.0120	0.0050
PG06505	106.20	107.20	1.00	0.0100	0.0150	0.0060

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Units: METRIC

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
111.80	113.30	**PYXT, Pyroxenite** Fine grained, medium grey, massive ?pyroxenite; very featureless, weakly sercitised, Tr fine grained disseminated Po throughout (very magnetic), no qtz; irregular contact with underlying unit **Mineralization** 111.80 - 113.30 Tr fine grained disseminated Py 111.80 - 113.30 : PO Pyrrhotite, DIS Disseminated, 2% 2% fine-grained disseminated Po **Alteration** 111.80 - 113.30 :CHL Chlorite, P Pervasive, M Moderate Texture destroying 111.80 - 113.30 :SE Sericite, D Disseminated, W Weak Possibly altered plag?								
113.30	116.80	**SED, Sediment** Medium grey, fine-medium grained mafic sediments, ~10% qtz eyes/clasts, relatively massive-looking, varying amounts of Po+/-Py, generally <5% **Mineralization** 116.60 - 116.80 : PY Pyrite, FF Fracture Filling, 2% Some Py-filled fractures associated with a qtz vein 115.31 - 116.80 : PO Pyrrhotite, DIS Disseminated, 2% Tr-2% fine grained disseminated Po 113.30 - 115.10 : PO Pyrrhotite, DIS Disseminated, 5% Fine grained disseminations **Alteration** 115.20 - 116.80 :SE Sericite, P Pervasive, W Weak 115.20 - 116.80 :Q Quartz, H Patchy, M Moderate Blotchy bits of qtz - probably veins weaving in and out of rock **Structure** 116.20 - 116.22 : F Fractured, 70 Deg to CA Po-Py filled fracture 116.20 - 116.30 : VN Veins, 20 Deg to CA Barren although Po-Py on its edges 116.28 - 116.30 : F Fractured, 70 Deg to CA Po-Py filled fracture 116.70 - 116.75 : VN Veins, 40 Deg to CA Qtz vein with some Po-rich sediment caught up in it								

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Units: METRIC

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
116.80	122.60	**SCH, Schist** BIOTITE SCHIST: Dark grey coarse-grained weak biotite schist - ~20% elongated disseminated bt crystals (<5mm in length) in se-chl matrix; 2-5% fine grained disseminated Po, with an additional 1-2%Py along chlorite-filled fractures **Texture** 120.70 - 121.00 : BC Broken Core Fractured interval, chlorite coats fractures 119.50 - 119.80 : BC Broken Core Fractured interval **Mineralization** 116.80 - 122.60 : PY Pyrite, FG Fine Grained, 1% Tr-1% fine grained disseminated Py, maybe found as fracture fill with chlorite at 119.5-121.3m 116.80 - 122.60 : PO Pyrrhotite, DIS Disseminated, 5% Fine grained disseminations but patchy in distribution **Alteration** 120.70 - 121.00 :CHL Chlorite, F Fracture Controlled, W Weak Associated with broken core 119.50 - 119.80 :CHL Chlorite, F Fracture Controlled, W Weak Associated with broken core 116.80 - 122.60 :BIO Biotite, D Disseminated, M Moderate Medium-coarse grained crystals throughout, weakly elongated 116.80 - 122.60 :SE Sericite, P Pervasive, M Moderate Moderately altering rock **Structure** 116.80 - 116.85 : UC Upper Contact, 40 Deg to CA Sharp upper contact 117.80 - 118.50 : FOL Foliated, 10 Deg to CA Streaky foliation 120.20 - 120.30 : F Fractured, 15 Deg to CA Chl-py filled fracture 122.20 - 122.30 : F Fractured, 10 Deg to CA Chl+/-Py filled frature						

Hole Number: **SE07-07**

Units: METRIC

Detailed Lithology

From (m)	To (m)	Lithology
122.60	138.90	**SED, Sediment** Dark grey-brown fine-grained equigranular Po-mafic sediments; 10-15% fine grained disseminated Po throughout with local patches (<10cm) of blebby (<1cm) Py, strongly silicified and banded 123.2-127m, some minor garnet alteration at 128.9-130m, increased qtz veining downhole **Texture** 130.20 - 130.60 : BC Broken Core Small broken zone, defined by abundant chl-py filled fractures **Mineralization** 138.60 - 138.90 : PO Pyrrhotite, FF Fracture Filling, 25% Only as fracture filling in a factured qtz vein 137.30 - 138.60 : PY Pyrite, FF Fracture Filling, 2% Only as fracture filling (fractures <3mm thick) 137.30 - 138.60 : PO Pyrrhotite, FG Fine Grained, 10% Fine grained disseminations, bit patchy in distribution 136.40 - 137.30 : PY Pyrite, VN Veins, 5% Filling in fractures around and in qtz vein as well as as irregular large (<1cm) blebs in semi-massive Po 136.40 - 137.30 : PO Pyrrhotite, VN Veins, 25% Semi-massive and associated around the edges of a white qtz vein; elsewhere its as fine grained disseminations in the host rock 133.30 - 136.40 : PY Pyrite, FF Fracture Filling, 2% Dominantly fracture fill but locally forming irregular-shaped blebs up to 1cm in size 133.30 - 136.40 : PO Pyrrhotite, FF Fracture Filling, 10% Fine grained disseminations, locally may form discontinuous bands (<3mm thick) 127.30 - 133.30 : PY Pyrite, FF Fracture Filling, 2% Filling in fractures with chlorite 127.30 - 133.30 : PO Pyrrhotite, FG Fine Grained, 5% Fine grained disseminations, locally becoming blebby near veins 126.20 - 127.30 : PY Pyrite, FF Fracture Filling, 1% Tr-1% in rare thin fractures or stringers 126.20 - 127.30 : PO Pyrrhotite, FG Fine Grained, 10% Fine grained disseminations 122.60 - 126.20 : PY Pyrite, BL Blebby, 1% Rare blebs of irregular shaped Py (<1cm) but not common 122.60 - 126.20 : PO Pyrrhotite, FG Fine Grained, 15% Fine grained disseminations, strongly magnetic **Alteration** 135.30 - 138.90 :Q Quartz, PCH Patchy, S Strong As above but up to 20% of the rock 133.30 - 135.30 :Q Quartz, PCH Patchy, M Moderate Occurring as diffuse blotches (1-5cm) could possiby be qtz veins cross-cutting core

Assay Data

Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
PG06506	131.80	132.80	1.00	0.0130	0.0150	0.0060
PG06507	132.80	133.30	0.50	0.0140	0.0170	0.0060
PG06508	133.30	134.30	1.00	0.0150	0.0180	0.0100
PG06509	134.30	135.30	1.00	0.0140	0.0180	0.0070
PG06510	135.30	135.70	0.40	0.0110	0.0130	0.0060
PG06511	135.70	136.40	0.70	0.0050	0.0060	0.0020
PG06512	136.40	136.80	0.40	0.0240	0.0260	0.0100
PG06513	136.80	137.30	0.50	0.0080	0.0090	0.0030
PG06514	137.30	138.00	0.70	0.0100	0.0120	0.0040
PG06515	138.00	138.60	0.60	0.0190	0.0300	0.0150

DETAILED LOG

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Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		Alteration 130.20 - 138.90 :Sil Silica, P Pervasive, M Moderate 130.20 - 130.60 :CHL Chlorite, P Pervasive, M Moderate Moderate to strong, texture destroying 128.90 - 130.00 :ALT Alteration, PCH Patchy, W Weak Weak-moderate reddish almandine garnet alteration 123.20 - 130.90 :Q Quartz, B Banded, M Moderate Defining diffuse irregular and discontinuous bands up to 0.5cm thick, banding not continuous throughout 123.20 - 130.90 :Sil Silica, P Pervasive, M Moderate Moderate to strong **Structure** 123.00 - 125.00 : FOL Foliated, 55 Deg to CA Banding defined by qtz/Po bands 127.10 - 127.20 : F Fractured, 30 Deg to CA Chl-py filled fracture 129.00 - 130.00 : VN Veins, 50 Deg to CA Just the dominant direction in what is really a diffuse qtz-chl stockwork stringer zone 130.20 - 130.60 Weak foliation 131.00 - 132.50 : FOL Foliated, 45 Deg to CA Banding in rock defined by discontinuous Py/Po or qtz 135.00 - 135.30 : FOL Foliated, 50 Deg to CA Po+/-Py banding within the sediments 136.40 - 136.50 : VN Veins, 50 Deg to CA Brecciated qtz vein infilled with Py-Po-Chl 138.03 - 138.05 : F Fractured, 20 Deg to CA Py-filled fracture						

DETAILED LOG

Hole Number: **SE07-07**

Units: METRIC

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
138.90	140.20	**SMS, Semi Massive Sulphide** 40-50% semi-massive Po-Py - but sadly, focused along fractures within a very fractured white qtz vein and in the strongly silicified rock beyond the vein **Texture** 138.90 - 140.20 : QVN Quartz Vein Busted up, very fractured with abundant Po inebtween fractures, and Chl-Py along fractures **Mineralization** 138.90 - 140.20 : PY Pyrite, FF Fracture Filling, 5% Either as facture filling, particularly in last 20cm or as coarse-blebs (<1cm in size) 138.90 - 140.20 : PO Pyrrhotite, SM Semi-Massive, 50% Pretty formless but largely focused along fractures between a broken up qtz vein **Alteration** 139.80 - 140.20 :CHL Chlorite, F Fracture Controlled, M Moderate Focused largely along fractures 138.90 - 140.20 :Sil Silica, P Pervasive, S Strong Texture destroying	PG06517	138.90	139.50	0.60	0.0390	0.0340	0.0110
140.20	141.80	**SCH, Schist** BIOTITE SCHIST: Grey/brown very blotchy biotite schist with extensive chl-se alteration, ~20% weakly elongated bt crystals, moderately silicified, Tr-2% Po fine grained disseminations, increasing slightly downhole **Mineralization** 141.30 - 141.80 : PO Pyrrhotite, FG Fine Grained, 10% Fine grained disseminations, somewhat smeared 140.20 - 141.30 : PO Pyrrhotite, FG Fine Grained, 2% Fine-grained disseminations **Alteration** 140.20 - 141.10 :Q Quartz, PCH Patchy, M Moderate Forming diffuse blebs in the rock 140.20 - 141.30 :SE Sericite, D Disseminated, S Strong Patchy in distribution but quite strong and pervasive, possibly replacing relict plag crystals **Structure** 140.20 - 140.70 : FOL Foliated, 40 Deg to CA Weakly defined foliation 141.30 - 141.32 : F Fractured, 40 Deg to CA Po-filled fracture	PG06521	140.20	140.70	0.50	0.0090	0.0090	0.0040
			PG06522	140.70	141.70	1.00	0.0140	0.0170	0.0070

Hole Number: **SE07-07**

Units: METRIC

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
141.80	160.00	**SED, Sediment** Dark grey-brown fine-grained metasediments, locally banded, moderately-strongly silcified, locally has well developed reddish garnet alteration (up to 20% of rock) **Mineralization** 143.20 - 143.50 : PY Pyrite, FF Fracture Filling, 1% Discontinuous and blebby 152.80 - 160.00 Trace very fine grained disseminations, barely visible and only patchily causing the magne to respond 152.60 - 152.80 : PY Pyrite, VN Veins, 2% Occurring in fractures within a qtz vein 152.60 - 152.80 : PO Pyrrhotite, VN Veins, 5% Occurring as fractrure fill near a qtz vein 150.00 - 150.50 : PY Pyrite, FF Fracture Filling, 1% Rare fracture fill (<5mm thick) 141.80 - 152.60 : PO Pyrrhotite, FG Fine Grained, 5% 2-5% fine grained disseminated Po throughout, locally may increase in concentration **Alteration** 154.95 - 160.00 :Q Quartz, B Banded, S Strong 154.95 - 160.00 :ALT Alteration, D Disseminated, M Moderate Reddish almandine garnets forming blotches overprinting everything 154.95 - 160.00 :Sil Silica, P Pervasive, M Moderate 149.05 - 154.95 :Sil Silica, P Pervasive, W Weak 149.05 - 153.75 :SE Sericite, D Disseminated, M Moderate Moderate to strong, patchy 143.50 - 146.50 :SE Sericite, D Disseminated, M Moderate Patchy in distribution **Structure** 143.30 - 143.35 : F Fractured, 30 Deg to CA Py-filled fracture 144.00 - 145.00 : FOL Foliated, 35 Deg to CA Weak foliation (but just as likely to be weaving into parallel to core axis...) 147.70 - 147.80 : FOL Foliated, 40 Deg to CA 148.00 - 148.90 : FOL Foliated, 10 Deg to CA 148.10 - 148.20 : VN Veins, 30 Deg to CA Barren qtz vein, very sharp contact 150.90 - 150.95 : F Fractured, 50 Deg to CA Massive Py-filled fracture 152.00 - 152.50 : FOL Foliated, 35 Deg to CA Weakly developed foliation/banding 155.00 - 156.00 : FOL Foliated, 40 Deg to CA Banding defined by diffuse dark grey qtz							

DETAILED LOG

Hole Number: **SE07-07**

Units: METRIC

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		Structure 155.80 - 155.90 : F Fractured, 20 Deg to CA Thin zone of chl-filled fractures 159.00 - 160.00 : FOL Foliated, 45 Deg to CA Banding defined by diffuse qtz bands							
160.00	160.01	**EOH, End of Hole** Hole terminated in part because we had explained the conductor (2x semi-massive Po-Py horizons in sediments) and partly because the drillers were having problems getting through the silicified and broken sediments							

Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type **ASSAY**					
PG06443	46.40	47.40	0.0040	0.0025	0.0020
PG06444	47.40	47.90	0.0140	0.0100	0.0050
PG06445	47.90	48.80	0.0080	0.0080	0.0050
PG06446	48.80	49.50	0.0050	0.0025	0.0040
PG06447	49.50	50.40	0.0020	0.0025	0.0020
PG06448	50.40	50.80	0.0210	0.0110	0.0100
PG06449	50.80	51.80	0.0070	0.0025	0.0050
PG06450	51.80	52.10	0.0220	0.0100	0.0160
PG06451	52.10	52.80	0.0070	0.0025	0.0050
PG06452	52.80	53.40	0.0020	0.0025	0.0040
PG06453	53.40	54.40	0.0060	0.0025	0.0080
PG06454	54.40	55.10	0.0040	0.0025	0.0070
PG06455	55.10	56.20	0.0050	0.0070	0.0090
PG06456	56.20	56.60	0.0020	0.0025	0.0030
PG06457	56.60	57.00	0.0080	0.0150	0.0170
PG06458	57.00	57.40	0.0180	0.0230	0.0230
PG06459	57.40	58.10	0.0190	0.0600	0.0510
PG06461	58.10	58.50	0.0110	0.0170	0.0240
PG06462	58.50	58.90	0.0150	0.0180	0.0210
PG06463	58.90	59.20	0.0040	0.0070	0.0030
PG06464	59.20	59.50	0.0050	0.0100	0.0050
PG06465	59.50	60.20	0.0040	0.0060	0.0050
PG06466	60.20	60.70	0.0110	0.0170	0.0110
PG06467	60.70	61.60	0.0050	0.0070	0.0060
PG06468	61.60	61.90	0.0150	0.0220	0.0140
PG06469	61.90	62.40	0.0020	0.0025	0.0040

Hole Number: **SE07-07**

Units: METRIC

Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type **ASSAY**					
PG06470	62.40	63.40	0.0005	0.0025	0.0020
PG06471	72.00	73.00	0.0005	0.0025	0.0020
PG06472	73.00	73.50	0.0040	0.0025	0.0020
PG06473	73.50	73.80	0.0070	0.0080	0.0130
PG06474	73.80	74.70	0.0005	0.0025	0.0020
PG06475	74.70	75.10	0.0020	0.0060	0.0030
PG06476	75.10	75.60	0.0040	0.0080	0.0060
PG06477	75.60	76.60	0.0010	0.0025	0.0020
PG06478	91.50	92.50	0.0090	0.0190	0.0070
PG06479	92.50	93.00	0.0080	0.0150	0.0060
PG06481	93.00	94.00	0.0150	0.0230	0.0080
PG06482	94.00	95.00	0.0190	0.0370	0.0100
PG06483	95.00	96.00	0.0200	0.0390	0.0130
PG06484	96.00	97.00	0.0130	0.0260	0.0080
PG06485	97.00	97.70	0.0130	0.0240	0.0080
PG06486	97.70	98.40	0.0250	0.0470	0.0270
PG06487	98.40	98.70	0.0270	0.0460	0.0130
PG06488	98.70	99.10	0.0200	0.0340	0.0100
PG06489	99.10	99.50	0.0210	0.1460	0.0350
PG06490	99.50	99.90	0.0410	0.0840	0.0160
PG06491	99.90	100.90	0.0280	0.0810	0.0120
PG06492	100.90	101.40	0.0320	0.0530	0.0210
PG06493	101.40	102.00	0.0320	0.0640	0.0210
PG06494	102.00	102.50	0.0140	0.0240	0.0040
PG06495	102.50	103.10	0.0200	0.0260	0.0040
PG06496	103.10	103.60	0.0330	0.0450	0.0410
PG06497	103.60	103.90	0.0120	0.0170	0.0030
PG06498	103.90	104.30	0.0240	0.0490	0.0290
PG06501	104.30	105.10	0.0050	0.0050	0.0020
PG06502	105.10	105.40	0.0150	0.0230	0.0050
PG06503	105.40	105.70	0.0180	0.0260	0.0130
PG06504	105.70	106.20	0.0090	0.0120	0.0050
PG06505	106.20	107.20	0.0100	0.0150	0.0060
PG06506	131.80	132.80	0.0130	0.0150	0.0060
PG06507	132.80	133.30	0.0140	0.0170	0.0060
PG06508	133.30	134.30	0.0150	0.0180	0.0100
PG06509	134.30	135.30	0.0140	0.0180	0.0070

Hole Number: **SE07-07**

Units: METRIC

Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type **ASSAY**					
PG06510	135.30	135.70	0.0110	0.0130	0.0060
PG06511	135.70	136.40	0.0050	0.0060	0.0020
PG06512	136.40	136.80	0.0240	0.0260	0.0100
PG06513	136.80	137.30	0.0080	0.0090	0.0030
PG06514	137.30	138.00	0.0100	0.0120	0.0040
PG06515	138.00	138.60	0.0190	0.0300	0.0150
PG06516	138.60	138.90	0.0170	0.0180	0.0060
PG06517	138.90	139.50	0.0390	0.0340	0.0110
PG06519	139.50	140.20	0.0190	0.0180	0.0150
PG06521	140.20	140.70	0.0090	0.0090	0.0040
PG06522	140.70	141.70	0.0140	0.0170	0.0070

DETAILED LOG

Hole Number: **SE07-08**

Units: METRIC

Project Name:	Norway - South Norway	Primary Coordinates	Grid: UTM84-32N		Destination Coordinates	Grid: UTM:	Collar Dip: -60.00
Project Number:	203	North: 6481398.00			North: 58.47		Collar Az: 250.00
Location:		East: 478316.00			East: 8.63		Length: 172.41 (m)
		Elev: 125.00			Elev: 125.00		Start Depth: 0.00 (m)
Date Started:	Mar 29, 2007	Collar Survey: N	Plugged: N		Contractor: Arctic Drilling A/S		Final Depth: 172.41 (m)
Date Completed:	Apr 17, 2007	Multishot Survey: N	Hole Size: TT46		Core Storage:		
Logged By:	ccnor	Pulse EM Survey: N	Casing:				

Comments: Hole collared in weakly sulphidic metasediments and never encountered gabbro, although gabbro outcrops 10m in front of hole - but dies immediately southwards. Encountered ~20%Po-Py @ 110.1-110.4m which was moderately conductive and strongly magnetic, and a small zone of massive sulphide comprising 75%Po-5%Py @ 151.65-152.0m which was strongly magnetic and conductive. The conductor in this area has been explained.

Sample Averages

Average Type	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
WEIGHTED	151.20	162.60	11.40	0.0184	0.0190	0.0082
WEIGHTED	151.65	152.00	0.35	0.0620	0.0391	0.0151

Detailed Lithology

From (m)	To (m)	Lithology	Assay Data					
			Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	1.20	**CAS, Casing**							

DETAILED LOG

Units: METRIC

Hole Number: **SE07-08**

Detailed Lithology

From (m)	To (m)	Lithology
1.20	151.65	**SED, Sediment** (garnet-biotite-amphibole gneiss) Light to medium grey, overall non magnetic, non conductive, and non mineralized with the exception of minor remobalized Py/Po stringers. Overall unit consists of 60-70% quartz/feldspar, 15-20% biotite, 5-7% amphiboles and 0-7% garnets. Locally biotite content increases up to 80% over 10-20 cm intervals. Gneissosity varies from 30-60 DTCA and locally crenulated and swirly. Gneissosity defined by 0.1 to 1.0cm wide dark biotite and amphiboles. Between 20-45m unit becomes more massive and gneissosity fades. 1-4% light green (chlorite?) alteration from 32 to 36m. Moderate zone of banded magnetic 10-15% Py-Po at 108.5-110.5m; weakly conductive **Mineralization** 104.70 - 105.30 : PY Pyrite, D Disseminated, 1% 48.80 - 49.00 : PY Pyrite, STR Stringers, 1% 60 DTCA 105.30 - 106.10 : PY Pyrite, D Disseminated, 5% Fine-medium disseminations 151.20 - 151.65 : PY Pyrite, BL Blebby, 2% Rare coarse-grained (3-5mm) Py blebs in areas of remobilised Po 151.20 - 151.65 : PO Pyrrhotite, INT Interstitial, 15% Dominantly coarse-grained interstitial Po, a lot of it has been remobilised to define a foliation, locally blebby 147.80 - 151.20 : PY Pyrite, D Disseminated, 1% Fine grained disseminations and localy forming 3-5mm blebs partially enclosed in remobilised Po 147.80 - 151.20 : PO Pyrrhotite, D Disseminated, 4% Fine-medium grained disseminations, rock moderately magnetic 143.00 - 147.80 : PY Pyrite, D Disseminated, 1% Fine-medium grained disseminations 143.00 - 147.80 : PO Pyrrhotite, D Disseminated, 1% Fine grained disseminations, rock weakly magnetic 139.30 - 143.00 : PY Pyrite, D Disseminated, 4% Coarse grained disseminations and blebs, strongly associated with silicified areas 139.30 - 143.00 : PO Pyrrhotite, D Disseminated, 1% Coarse-grained disseminations but only makes rock weakly magnetic 105.30 - 106.10 : PO Pyrrhotite, BL Blebby, 5% Coarse-grained dissem/blebs 110.10 - 139.30 : PY Pyrite, D Disseminated, 1% Fine-medium grained disseminations 110.10 - 139.30 : PO Pyrrhotite, D Disseminated, 1% Coarse-disseminations, locally forming blebs, make interval magnetic 110.10 - 110.40 : PY Pyrite, D Disseminated, 1% Coarse-grained disseminations (<2mm in size) 110.10 - 110.40 : PO Pyrrhotite, BL Blebby, 20% Forming deformed blebs (<5mm in size) wrapped up in sheared bt

Assay Data

Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
PG06523	103.60	104.70	1.10	0.0025	0.0060	0.0030
PG06524	104.70	105.30	0.60	0.0025	0.0090	0.0030
PG06525	105.30	106.10	0.80	0.0050	0.0110	0.0030
PG06526	106.10	106.70	0.60	0.0025	0.0080	0.0010
PG06527	106.70	107.00	0.30	0.0025	0.0080	0.0010
PG06528	107.00	108.00	1.00	0.0050	0.0100	0.0030
PG06529	108.00	108.50	0.50	0.0025	0.0060	0.0010
PG06530	108.50	109.00	0.50	0.0120	0.0210	0.0140
PG06531	109.00	109.50	0.50	0.0120	0.0300	0.0110
PG06532	109.50	109.80	0.30	0.0080	0.0160	0.0040
PG06533	109.80	110.10	0.30	0.0060	0.0140	0.0040
PG06534	110.10	110.40	0.30	0.0170	0.0270	0.0030
PG06536	110.40	110.90	0.50	0.0025	0.0110	0.0040
PG06537	110.90	112.10	1.20	0.0025	0.0090	0.0030
PG06538	112.10	113.10	1.00	0.0025	0.0090	0.0040
PG06539	113.10	113.60	0.50	0.0060	0.0130	0.0060
PG06541	149.70	150.70	1.00	0.0080	0.0080	0.0050
PG06542	150.70	151.20	0.50	0.0090	0.0025	0.0050

Hole Number: **SE07-08**

Units: METRIC

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		Mineralization 109.80 - 110.10 : PY Pyrite, DIS Disseminated, 1% Fine grained disseminations 109.80 - 110.10 : PO Pyrrhotite, D Disseminated, 8% Dominantly as fine grained disseminations but locally forms discontinuous stringers 108.50 - 109.50 : PO Pyrrhotite, STR Stringers, 7% Occurs as weak disseminations but becomes dominantly thin stringers encapsulating Py after 109m 23.75 - 23.75 : PY Pyrite, F Fracture Controlled, 1% 30 dtca 108.50 - 109.50 : PY Pyrite, D Disseminated, 8% Starts off dominating the sulphide content but after 109m becomes confined as coarse blebs in Po 107.00 - 108.50 : PO Pyrrhotite, D Disseminated, 1% Disseminated Po, locally forming discontinuous stringers, magnetic 106.10 - 107.00 : PO Pyrrhotite, STR Stringers, 1% Stringers of disseminated Po-(Py) 106.10 - 107.00 : PY Pyrite, D Disseminated, 2% AS fine grained disseminations, dominantly associated with qtz stringers 61.65 - 62.00 : PY Pyrite, STR Stringers, 1% 35 DTCA 33.25 - 33.75 : PY Pyrite, F Fracture Controlled, 1.5% fractures sub parallel TCA **Structure** 6.50 - 6.50 : GN Gneissic, 35 Deg to CA 16.00 - 16.00 : GN Gneissic, 50 Deg to CA biotite veinlets 24.50 - 24.60 : Frct Fracture, 15 Deg to CA tr py whisps 39.05 - 39.10 : FLT Fault, 50 Deg to CA light green fault gauge trace py 40.50 - 40.50 : Frct Fracture, 40 Deg to CA fracture heald with biotite 47.10 - 47.10 : GN Gneissic, 40 Deg to CA 49.50 - 49.50 : Frct Fracture, 45 Deg to CA talc along fracture 70.50 - 70.50 : GN Gneissic, 50 Deg to CA 74.20 - 74.50 : VN Veins, 30 Deg to CA Small zone of parallel late white qtz stringers (<5mm thick) 78.00 - 78.30 : VN Veins, 15 Deg to CA Qtz vein with trace py-chl 86.70 - 88.90 : Frct Fracture, 20 Deg to CA Series of diffuse thin grey qtz-filled fractures 93.30 - 99.40 Small qtz vein with chloritic fault gouge on its margins								

Hole Number: **SE07-08**

Units: METRIC

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		Structure 97.10 - 97.40 : VN Veins, 30 Deg to CA Qtz-chl vein 100.60 - 100.90 : VN Veins, 20 Deg to CA Qtz-chl-py vein, irregular but sharp contact 103.00 - 104.30 : GN Gneissic, 40 Deg to CA 106.60 - 107.00 : VN Veins, 20 Deg to CA Qtz-chl-py with increasing bt banding in last 1cm 108.50 - 109.10 : STRUC Structure, 30 Deg to CA Thin sulphide stringers 111.30 - 116.40 : GN Gneissic, 35 Deg to CA Defined by thin bands of disseminated Po-Py and bt 118.20 - 118.60 : VN Veins, 40 Deg to CA Thin stringers (<3mm, ~20%) of qtz-Py 124.40 - 127.60 : GN Gneissic, 45 Deg to CA Defined by disseminated sulphide bandlets (<2mm thick) alterating with greyish qtz-silica bands 132.90 - 135.00 : GN Gneissic, 35 Deg to CA Well defined banding - alternating disseminated Po-Py bands (<3mm thick) and greyish-white qtz 139.20 - 139.25 : Frct Fracture, 30 Deg to CA Chl-Py filled fracture 143.05 - 143.10 : Frct Fracture, 25 Deg to CA Chl-Po filled fracture 144.20 - 144.22 : Frct Fracture, 25 Deg to CA Chl-gouge fracture 149.70 - 150.10 : FOL Foliated, 20 Deg to CA Defined by biotite **MINOR INTERVALS:** **Minor Interval:** 50.4 - 59.3 FGN, Felsic Gneiss (felsic dike?) light green, consists of 5-7% elongated blue/grey quartz crystals set in a fine light green matrix of quartz 50%, feldspar 30%, mica 5%. overall light green color possibly due to weak pervasive chlorite/talc alteration (residue from scratched surface has distinct talc feel) Quartz crystals avg 0.5 x 1.5 cm and define overall weak fabric 10-30 DTCA. upper and lower contact are gradational. **Structure** 54.20 - 54.20 : F Fractured, 20 Deg to CA						

DETAILED LOG

Hole Number: **SE07-08**

Units: METRIC

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		MINOR INTERVALS: **Minor Interval:** 109.5 - 109.8 PYXT, Pyroxenite Pale green-grey fine grained pyroxenite, no mineralisation **Structure** 109.50 - 109.55 Irregular but sharp contact, overprinted in upper 5cm by banded Po-Py mineralisation 109.75 - 109.80 : LC Lower Contact, 40 Deg to CA Sharp contact							
151.65	152.00	**MS, Massive Sulphide** Semi-massive to massive Po with about 75% sulphide and 5% bebebs of irregular shaped Pyrite, 20-25% angular fragments of qtz/silicified material elsewhere **Texture** 151.65 - 152.00 : BC Broken Core Core quite broken up **Mineralization** 151.65 - 152.00 : PY Pyrite, BL Blebby, 5% Blebs irregular shaped and <0.5cm in size 151.65 - 152.00 : PO Pyrrhotite, SM Semi-Massive, 75% Up to 75% massive/semi-massive Po							

DETAILED LOG

Units: METRIC

Hole Number: **SE07-08**

Detailed Lithology

From (m)	To (m)	Lithology
152.00	170.20	**SED, Sediment** Medium grey, moderately si-chl altered metasediments, locally has patchy clusters of reddish almandine garnets or biotite alteration, locally has weakly developed foliation; sulphide content varies from 5-15% and is dominantly Po. **Mineralization** 162.60 - 170.20 : PY Pyrite, D Disseminated, 1% Tr-1%Py, usually as fine grained disseminations but locally forming small (1-3mm) blebs 162.60 - 170.20 : PO Pyrrhotite, D Disseminated, 2% 1-2% Po usually as fine-medium grained slightly ragged and elongated disseminations, but locally may form ragged blebs up comprising up to 10% of the rock (over 5-10cm) 161.00 - 162.60 : PY Pyrite, BL Blebby, 2% Medium-large blebs (2-5mm in size), partially infilling fractures or enclosed by Po 161.00 - 162.60 : PO Pyrrhotite, ws wisps, 8% 5-8% wispy Po defining foliation (with Bt) 160.60 - 161.00 : PO Pyrrhotite, ws wisps, 3% 2-5% wispy Po defining foliation 160.30 - 160.60 : PY Pyrite, BL Blebby, 5% Medium-large blebs (2-5mm in size), partially infilling fractures or enclosed by Po 160.30 - 160.60 : PO Pyrrhotite, ws wisps, 5% Thin wisps of Po, elongated parallel to foliation, <1cm in length 159.20 - 160.30 : PY Pyrite, DIS Disseminated, 2% 1-2% Py, either as fine grained disseminations or more rarely as coarser blebs (<0.8cm) in discontinuous Po-qtz veinlets 159.20 - 160.30 : PO Pyrrhotite, INT Interstitial, 10% Coarse-grained ragged blebs, weakly defining foliation 157.50 - 159.20 : PY Pyrite, D Disseminated, 2% 2-5% fine-medium grained disseminations, locally forming small irregular shaped blebs 157.50 - 159.20 : PO Pyrrhotite, D Disseminated, 5% Dominantly as fine-medium grained disseminations, weakly defining gneissosity 152.50 - 154.90 : PY Pyrite, D Disseminated, 5% 2-5% fine grained disseminations 154.90 - 157.50 : PY Pyrite, BL Blebby, 2% 1-2% blebby pyrite, localised in veins and rarely enclosed in Po 154.90 - 157.50 : PO Pyrrhotite, INT Interstitial, 8% 5-8% ragged Po, interstitial to silicate alteration, weakly foliated 152.50 - 154.90 Hardly any Po but patchy areas are weakly magnetic - possibly associated with fie grained disseminated Po 152.00 - 152.50 : PY Pyrite, BL Blebby, 5% 2-5% blebby Py (<3mm in size), irregular shape, largely confined to Po-qtz veins or as rarer blebs encased in Po grains

Assay Data

Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
PG06546	152.00	152.50	0.50	0.0240	0.0280	0.0120
PG06547	152.50	153.20	0.70	0.0050	0.0025	0.0020
PG06548	153.20	154.20	1.00	0.0070	0.0060	0.0020
PG06549	154.20	154.90	0.70	0.0090	0.0100	0.0040
PG06550	154.90	155.90	1.00	0.0140	0.0180	0.0090
PG06551	155.90	156.70	0.80	0.0170	0.0190	0.0070
PG06552	156.70	157.50	0.80	0.0280	0.0290	0.0100
PG06553	157.50	158.40	0.90	0.0220	0.0220	0.0110
PG06554	158.40	159.20	0.80	0.0160	0.0190	0.0070
PG06555	159.20	160.30	1.10	0.0200	0.0190	0.0080
PG06556	160.30	160.60	0.30	0.0190	0.0290	0.0230
PG06557	160.60	161.00	0.40	0.0170	0.0180	0.0050
PG06558	161.00	161.80	0.80	0.0250	0.0280	0.0110
PG06559	161.80	162.60	0.80	0.0170	0.0220	0.0100
PG06561	162.60	163.10	0.50	0.0130	0.0025	0.0050
PG06562	163.10	164.10	1.00	0.0080	0.0070	0.0050

DETAILED LOG

Units: METRIC

Hole Number: **SE07-08**

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		Mineralization 152.00 - 152.50 : PO Pyrrhotite, INT Interstitial, 15% Coarse-grained ragged-looking and weakly deformed (elongated) Po, grains rarely larger than 5mm **Structure** 152.30 - 152.32 : VN Veins, 45 Deg to CA Po-Py vein 154.00 - 154.30 : FOL Foliated, 35 Deg to CA Chl-bt defined foliation 160.10 - 160.30 : FOL Foliated, 45 Deg to CA Chl-se defined foliation 163.90 - 163.92 : VN Veins, 40 Deg to CA Py-qtz filled vein 164.90 - 165.50 : FOL Foliated, 35 Deg to CA Defined by chl								
170.20	172.40	**SCH, Schist** BIOTITE SCHIST: Dark brown biotite schist, weakly oxidised, contains 10-15% qtz eyes (semi-rounded, <1cm) at 172.0-172.4m, 1-2% disseminated Po-Py, usually parallel to the foliation **Texture** 172.00 - 172.40 : BX Brecciated Biotite schist with 5-10% semi-rounded/semi-angular qtz eyes in it **Mineralization** 170.20 - 172.40 : PY Pyrite, D Disseminated, 1% Tr-1%Py, usually as fine grained disseminations but locally forming small (1-3mm) blebs 170.20 - 172.40 : PO Pyrrhotite, D Disseminated, 2% 1-2% Po usually as fine-medium grained slightly ragged and elongated disseminations, but locally may form ragged blebs up comprising up to 10% of the rock (over 5-10cm) **Structure** 170.20 - 172.40 : FOL Foliated, 40 Deg to CA Defined by biotite								
172.40	172.41	**EOH, End of Hole** Hole terminated as conductor had been satisfactorily explained, and there was no gabbro or nickel mineralisation evident.							

Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type **ASSAY**					
PG06523	103.60	104.70	0.0025	0.0060	0.0030
PG06524	104.70	105.30	0.0025	0.0090	0.0030
PG06525	105.30	106.10	0.0050	0.0110	0.0030
PG06526	106.10	106.70	0.0025	0.0080	0.0010

DETAILED LOG

Hole Number: **SE07-09**

Units: METRIC

Project Name:	Norway - South Norway	Primary Coordinates	Grid: UTM84-32N	Destination Coordinates	Grid: UTM:	Collar Dip:	-60.00
Project Number:	203	North:	6481285.00	North:	58.47	Collar Az:	250.00
Location:	Seljasen West	East:	478329.00	East:	8.63	Length:	148.91 (m)
		Elev:	100.00	Elev:	100.00	Start Depth:	0.00 (m)
Date Started:	Apr 17, 2007	Collar Survey:	N	Plugged:	N	Contractor:	Arctic Drilling A/S	Final Depth:	148.91 (m)
Date Completed:		Multishot Survey:	N	Hole Size:	TT46	Core Storage:			
Logged By:	sgnor	Pulse EM Survey:	N	Casing:					

Comments: Drilled to test southern extent of UTEM conductor; encountered weak conductivity and moderate magnetism near a gneiss/banded metasediment @ 107.5m - the metasediment contains 5-20% foliated Po+/-Py

Sample Averages

Average Type	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
WEIGHTED	109.00	115.70	6.70	0.0163	0.0246	0.0041

Detailed Lithology

From (m)	To (m)	Lithology	Assay Data						
			Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	4.30	**CAS, Casing**							

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DETAILED LOG

Units: METRIC

Hole Number: **SE07-09**

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
4.30	61.40	**SCH, Schist** Black-white, qtz-biotite-chlorite schist, small areas with up to 20% almandine garnet clusters, amphibolitic looking, locally-developed gneissic textures, strong well-developed foliation, rare traces of fine-grained pyrite **Texture** 58.40 - 58.80 : FLT Fault Gouge Clay-chl rich zones within strongly sheared bt-qtz schist, gritty feel 41.60 - 41.70 : FLT Fault Gouge Some clay-rich horizons within strongly sheared schist 41.90 - 42.10 : FLT Fault Gouge Some clay-rich horizons within strongly sheared schist **Alteration** 60.30 - 61.40 :HM Hematite, PCH Patchy, W Weak ~2% stringers of bright red haematite 53.75 - 58.90 :CHL Chlorite, ST Staining, M Moderate Largley confined to qtz smears but locally defining fractures 52.70 - 53.10 :ALT Alteration, PCH Patchy, M Moderate 10-20% clusters of reddish almandine which yes, do cross the dyke boundary! 35.70 - 36.25 :ALT Alteration, PCH Patchy, M Moderate 10-20% clusters of reddish almandine **Structure** 4.30 - 8.10 Defined by biotite 7.60 - 7.70 : Frct Fracture, 40 Deg to CA Chl-filled 16.00 - 17.90 : FOL Foliated, 25 Deg to CA Defined by smeared plag? and bt 25.10 - 25.20 : Frct Fracture, 10 Deg to CA Chl-filled 31.00 - 32.30 : FOL Foliated, 25 Deg to CA Strong! 37.00 - 37.05 : Frct Fracture, 30 Deg to CA Filled with chl 40.40 - 44.70 : GN Gneissic, 25 Deg to CA Weakly gneissic looking - discontinous bands of qtz, qtz-chl, bt and bt-qtz 51.00 - 51.80 : FOL Foliated, 25 Deg to CA Strong! 55.40 - 55.80 : Frct Fracture, 5 Deg to CA Fresh 60.00 - 60.60 : FOL Foliated, 25 Deg to CA Defined by qtz-bt stretched out						

DETAILED LOG

Hole Number: **SE07-09**

Units: METRIC

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		MINOR INTERVALS: **Minor Interval:** 11.7 - 12.1 PYXT, Pyroxenite Fine grained, pale green-brown, weakly oxidised pyroxenitic-looking chl-amph-se dyke, massive (not sheared like surrounding rock), sharp upper and lower contacts although lower contact is a bit irregular **Structure** 11.70 - 11.75 : UC Upper Contact, 90 Deg to CA Sharp **Minor Interval:** 52.1 - 53 PYXT, Pyroxenite Pale green, fine grained chl-se-plag-amph pyxoxenitic-looking dyke sharp upper and lower contacts; seems to have been overprinted by a later garnet event which crosses boundaries into the surrounding schist. **Structure** 52.10 - 52.15 : UC Upper Contact, 30 Deg to CA Sharp 52.80 - 53.00 : LC Lower Contact, 25 Deg to CA Sharp							

Units: METRIC

Hole Number: **SE07-09**

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
61.40	107.05	**MGN, Mafic Gneiss** Mafic gneiss - weakly augen looking with elongated plag eyes (<5mm, <5%), otherwise unit compositionally and texturally similar to the above bt-qtz-chl+/-gt schist, strongly foliated and locally cut by chl-rich fractures and faulting **Texture** 68.70 - 69.00 : BC Broken Core competent core - just broken 68.70 - 69.00 : FLT Fault Gouge Pale green friable chl clays, barely cohesively held together 65.50 - 65.70 : FLT Fault Gouge Pale green chloritic clays, friable **Alteration** 105.20 - 107.05 :ALT Alteration, PCH Patchy, W Weak weak to moderate red almandine garnets and chl which seems to be pseudomorphing the alandine down hole 103.80 - 104.50 :ALT Alteration, PCH Patchy, W Weak 5-10% reddish alamdine garnet grains 102.20 - 103.10 :CHL Chlorite, PCH Patchy, M Moderate Patchy in distribution 85.20 - 85.50 :CHL Chlorite, P Pervasive, S Strong Turning the rock to gritty chl clays 100.00 - 100.70 :ALT Alteration, PCH Patchy, M Moderate 20% reddish brown almandine forming clusters up to 3cm in size 87.80 - 90.30 :CHL Chlorite, P Pervasive, W Weak 75.50 - 76.50 :ALT Alteration, PCH Patchy, M Moderate Up to 20% red almandine garnet clusters 61.40 - 67.00 :HM Hematite, PCH Patchy, W Weak ~2% stringers of bright red haematite **Structure** 62.40 - 63.30 : GN Gneissic, 30 Deg to CA 70.50 - 71.70 : FOL Foliated, 25 Deg to CA 75.20 - 75.25 : VN Veins, 60 Deg to CA Qtz-chl vein 81.70 - 85.80 : GN Gneissic, 45 Deg to CA Largely defined by bt 88.10 - 90.30 : FOL Foliated, 30 Deg to CA 90.30 - 90.60 : VN Veins, 25 Deg to CA Qtz+/-Chl 96.40 - 99.20 : GN Gneissic, 30 Deg to CA Defined by chl-bt and rare qtz 100.90 - 100.95 : FLT Fault, 35 Deg to CA Chl-se-filled 103.80 - 105.40 : GN Gneissic, 45 Deg to CA Defined by dscts qtz bands(<3mm) in bt schist								

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DETAILED LOG

Units: METRIC

Hole Number: **SE07-09**

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		MINOR INTERVALS: **Minor Interval:** 82.8 - 83 PEG, Pegmatite White/black qtz--bt-chl+/-ep with strong biotite alteration halo (making it hard to define where the exact contact is) **Structure** 82.80 - 82.85 : UC Upper Contact, 40 Deg to CA REasonably sharp and defined by slightly broken up qtz 82.95 - 83.00 : LC Lower Contact, 25 Deg to CA Diffuse - broken qtz grades into biotite							

Units: METRIC

Hole Number: **SE07-09**

Detailed Lithology

From (m)	To (m)	Lithology
107.05	144.10	**SED, Sediment** Medium grey, fine grained silicified+/-bt-chl metasediment, locally banded (defined by Po+/-Py stringers), patchy bt alteration, rarely cross-cut by qtz pr pegamatite veins; variable Po-Py content with background values of 2-5% disseminated Po+/-Py, increasing locally to 10-20% and some veins (<3cm thick) of massive sulphide (Po-Py) **Mineralization** 128.60 - 144.10 Quite rare but can form big blebs in fractures and veins 128.60 - 144.10 : PO Pyrrhotite, BL Blebby, 5% 2-5% ragged blebs of Po or fine grained disseminations, defines fabric 111.70 - 113.00 : PY Pyrite, VN Veins, 2% Localised along fractures 125.20 - 128.60 : PY Pyrite, BL Blebby, 1% 1-2% Py as small (<2mm) irregular blebs 125.20 - 128.60 : PO Pyrrhotite, ws wisps, 3% 2-5% ragged coarse wisps of Po elongated parallel to fabric 114.80 - 125.20 As fine grained disseminationsbut locally as blebs infilling fractures 114.80 - 125.20 : PO Pyrrhotite, D Disseminated, 1% Fine grained dissemintions defining banding; locally increases to semi-massive when infilling fractures 113.00 - 114.80 : PY Pyrite, D Disseminated, 1% 1-2% fine grained disseminated Py 113.00 - 114.80 : PO Pyrrhotite, ws wisps, 3% 2-5% ragged wisps of Po elongated parallel to fabric 111.70 - 113.00 : PO Pyrrhotite, D Disseminated, 3% 2-5% fine grained disseminated Po, locally remobilised into fractures 111.60 - 111.70 : PY Pyrite, VN Veins, 10% Small vein with massive clots (2-3cm) of Py 111.60 - 111.70 : PO Pyrrhotite, VN Veins, 80% Small vein of semi-massive Po-Py 111.40 - 111.60 : PY Pyrite, D Disseminated, 1% Tr-1% fine grained disseminated Py 111.40 - 111.60 : PO Pyrrhotite, D Disseminated, 2% 1-2% fine grained wispy disseminated Po 110.10 - 111.40 : PY Pyrite, D Disseminated, 2% 1-2% fine grained disseminated Py 110.10 - 111.40 : PO Pyrrhotite, STR Stringers, 8% 5-8% wispy stringers of Po 109.80 - 110.10 : PY Pyrite, D Disseminated, 1% 1-2% fine grained disseminationed Py 109.80 - 110.10 : PO Pyrrhotite, D Disseminated, 3% 2-5% disseminated fine grained Po 109.50 - 109.80 : PY Pyrite, BL Blebby, 5% 2-5% fine grained blebby irregular shaped Py

Assay Data

Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
PG06564	107.60	108.00	0.40	0.0025	0.0130	0.0060
PG06565	108.00	108.50	0.50	0.0120	0.0180	0.0020
PG06566	108.50	109.00	0.50	0.0120	0.0150	0.0020
PG06567	109.00	109.40	0.40	0.0240	0.0230	0.0020
PG06568	109.40	109.80	0.40	0.0220	0.0250	0.0030
PG06569	109.80	110.10	0.30	0.0100	0.0150	0.0020
PG06570	110.10	110.80	0.70	0.0100	0.0220	0.0070
PG06571	110.80	111.30	0.50	0.0140	0.0200	0.0020
PG06572	111.30	111.60	0.30	0.0140	0.0290	0.0030
PG06573	111.60	112.00	0.40	0.0200	0.0160	0.0010
PG06574	112.00	112.50	0.50	0.0025	0.0100	0.0020
PG06575	112.50	113.00	0.50	0.0110	0.0130	0.0040
PG06576	113.00	113.70	0.70	0.0180	0.0300	0.0050
PG06577	113.70	114.70	1.00	0.0190	0.0300	0.0050
PG06578	114.70	115.70	1.00	0.0230	0.0380	0.0060

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DETAILED LOG

Units: METRIC

Hole Number: **SE07-09**

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		Mineralization 109.50 - 109.80 : PO Pyrrhotite, ws wisps, 25% 25% ragged wispy Po, slightly deformed and forming a dominant component of interval 109.00 - 109.60 : PY Pyrite, BL Blebby, 2% Tr-2% fine grained disseminations 109.00 - 109.60 : PO Pyrrhotite, NT Net-Textured, 8% 5-8% Po, not really net-textured - but it is in matrix and wrapping around matrix minerals 108.50 - 109.00 : PY Pyrite, BL Blebby, 5% 5% iregular blebs of Py, not deformed, seem to be locally overprinting Po 108.50 - 109.00 : PO Pyrrhotite, INT Interstitial, 15% 15% Po usually intersititial and partially enclosing matrix minerals 107.05 - 108.10 : PY Pyrite, BL Blebby, 1% Small irregular and slightly elongated discontinuous blebs of Py 107.05 - 108.10 : PO Pyrrhotite, D Disseminated, 2% 1-2% Po, fine grained disseminations **Alteration** 111.70 - 112.80 :Q Quartz, PCH Patchy, S Strong Zone of blotchy qtz alteration 107.05 - 111.60 :BIO Biotite, D Disseminated, S Strong 20-30% disseminations thoughout rock 116.60 - 116.80 :Alb Albite, PT Patchy, W Weak Pale orange-pink albite alteration, associated with qtz vein **Structure** 111.50 - 111.60 : Frct Fracture, 40 Deg to CA Bt+/-Py filled fracture 113.00 - 123.80 : FOL Foliated, 55 Deg to CA Defined by elongated Po and bands of disseminated Po (<2mm thick) 126.70 - 126.95 : VN Veins, 30 Deg to CA Qtz vein with remobilised Po-Py in fractures 127.30 - 132.30 : FOL Foliated, 30 Deg to CA Defined by elongated Po and qtz smears 135.20 - 135.30 : VN Veins, 50 Deg to CA Slightly diffuse qtz veiniet 139.90 - 144.00 : FOL Foliated, 50 Deg to CA Defined by elongated Po						

Units: METRIC

Hole Number: **SE07-09**

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
144.10	146.80	**PEG, Pegmatite** Massive fresh white qtz-bt-chl+/-ep pegmatite vein; must be thin here as there are some intervals of grey metasediment host, no sulphides in pegmatite but Tr-2% f.gr disseminated Po-Py in metasediment **MINOR INTERVALS:** **Minor Interval:** 144.8 - 145.8 SED, Sediment Medium grey, fine grained, silicified metasediment, banded - same as 1-7.05-144.10m; Tr-2% disseminated Po - weakly magnetic **Mineralization** 144.80 - 145.80 Very fine grained disseminations **Structure** 144.80 - 144.85 : UC Upper Contact, 45 Deg to CA Sharp 145.75 - 145.80 : LC Lower Contact, 40 Deg to CA Sharp **Minor Interval:** 146.1 - 146.3 SED, Sediment As for 144.8-145.8m **Mineralization** 146.10 - 146.30 Very fine grained disseminations 146.10 - 146.30 : PO Pyrrhotite, D Disseminated, 1% Tr-1% very fine grained disseminations, weakly magnetic **Structure** 146.10 - 146.12 : UC Upper Contact, 30 Deg to CA Sharp 146.25 - 146.30 : LC Lower Contact, 30 Deg to CA Sharp but slightly irregular								
146.80	148.90	**SED, Sediment** Medium-dark grey fine grained silicified metasediment, weakly banded and patchily bt-altered, intruded by thin stringers of the above pegmatite (<10cm thick), Tr fine grained disseminated Po-Py **Mineralization** 146.80 - 148.90 Fine grained disseminations 146.80 - 148.90 : PO Pyrrhotite, ws wisps, 1% Wispy Po in fabric **Alteration** 148.00 - 148.90 :BIO Biotite, D Disseminated, M Moderate 147.00 - 148.90 :ALT Alteration, PCH Patchy, W Weak weak-moderate red almandine overprinting everything								

DETAILED LOG

Units: METRIC

Hole Number: **SE07-09**

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
148.90	148.91	**EOH, End of Hole** Hole terminated as conductor explained (sulphides in sediments) and no reason to continue in the hope of nickel mineralisation							

Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type **ASSAY**					
PG06563	107.00	107.60	0.0070	0.0090	0.0020
PG06564	107.60	108.00	0.0025	0.0130	0.0060
PG06565	108.00	108.50	0.0120	0.0180	0.0020
PG06566	108.50	109.00	0.0120	0.0150	0.0020
PG06567	109.00	109.40	0.0240	0.0230	0.0020
PG06568	109.40	109.80	0.0220	0.0250	0.0030
PG06569	109.80	110.10	0.0100	0.0150	0.0020
PG06570	110.10	110.80	0.0100	0.0220	0.0070
PG06571	110.80	111.30	0.0140	0.0200	0.0020
PG06572	111.30	111.60	0.0140	0.0290	0.0030
PG06573	111.60	112.00	0.0200	0.0160	0.0010
PG06574	112.00	112.50	0.0025	0.0100	0.0020
PG06575	112.50	113.00	0.0110	0.0130	0.0040
PG06576	113.00	113.70	0.0180	0.0300	0.0050
PG06577	113.70	114.70	0.0190	0.0300	0.0050
PG06578	114.70	115.70	0.0230	0.0380	0.0060

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DETAILED LOG

Units: METRIC

Hole Number: **SE07-10**

Project Name:	Norway - South Norway	Primary Coordinates	Grid: UTM84-32N	Destination Coordinates	Grid: UTM:	Collar Dip:	-52.00
Project Number:	203	North:	6481580.00	North:	58.47	Collar Az:	245.00
Location:	Seljeasen West	East:	478245.00	East:	8.63	Length:	120.01 (m)
		Elev:	98.00	Elev:	98.00	Start Depth:	0.00 (m)
Date Started:	Apr 21, 2007	Collar Survey:	N	Plugged:	N	Contractor:	Arctic Drilling A/S	Final Depth:	120.01 (m)
Date Completed:	Apr 24, 2007	Multishot Survey:	N	Hole Size:	TT46	Core Storage:	tyristrand		
Logged By:	J. Grant	Pulse EM Survey:	N	Casing:	Left in hole. Capped.				

Comments: Testing UTEM conductor. All gabbro; no sampling.

Sample Averages

Detailed Lithology

From (m)	To (m)	Lithology	Assay Data						
			Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	3.75	**PEG, Pegmatite** Massive, white pegmatite with 1 to 5 cm oblate plagioclase in a matrix of very coarse biotite. Quartz is co-mingled with the plagioclase in about a 40%:40% ratio. 0.00-0.80: Casing core, dumped at site.							
3.75	61.35	**NOR, Norite** LEUCONORITE. Massive and light grey, with 15-30%, 2-4 mm irregular ovoids of dark green orthopyroxene, lesser, light green clinopyroxene and 1x4 mm plagioclase lathes in a gourndmass of 1 mm plagioclase. Non-magnetic, except for rare, 1 cm intervals of minor disseminated, fine pyrrhotite. Commpetent core with over 1 m between breaks. Most breaks are along <1 mm quartz-chlorite seams. Narrow pegmatites, most at 60 DCA, occur at: 15.25-15.40; 15.50-15.54; 16.32-16.36; 28.55-28.62; 30.91-30.97; 31.75-32.24; 35.46-35.50; 39.20-39.22; 39.41-39.44; 49.28-49.50; 49.77-49.93 and 63.35-63.43 m. Adjacent to the pegmatites, the pyroxene is pervasively replaced by biotite. The biotite replacement dissipates away from the pegmatites over a distace similar to the width of that particular pegmatite. The lower contact is gradation from 61.00-71.00, and is arbitrarily places at a pegmatite at 60.35 m, which roughly marks the first appearance of the disseminated pyrrhotite typical of the quartz gabbro below.							

DETAILED LOG

Hole Number: **SE07-10**

Units: METRIC

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
61.35	120.00	**GAB, Gabbro** QUARTZ GABBRO. Massive, medium grey and medium-grained, with 35-50% clinopyroxene>orthopyroxene in a groundmass of 1 mm plagioclase (50%) and quartz (10-15%). Non- to weakly magnetic, depending on the distribution of the up to 0.5% disseminated to blebby (2 mm) pyrrhotite. Competent core with breaks every 0.4 to 2.0 m along thin chlorite seams at 50-60 DCA. Pegmatites with biotitised halos, similar to those inn the norite above, occur at: 76.84-76.86; 102.55-102.62 and 108.72-108.92 m. **Structure** 71.00 - 71.10 : G Gouge, 15 Deg to CA 5 cm of fine, green gouge. 91.49 - 91.63 : BLKY Blocky, 45 Deg to CA Broken core along 10 breaks. 94.77 - 94.94 5 cm of gouge-coated, pebbly rubble grading into grouge-filled fractures. 95.13 - 95.15 : VN Veins, 40 Deg to CA 1 cm chlorite > quartz. 96.48 - 97.03 : F Fractured, 1 Deg to CA 2 mm wavy chlorite seam. 111.35 - 111.36 : G Gouge, 35 Deg to CA 2 mm quartz>chlorite seam cored by 1 mm of fine, light green gouge. 111.73 - 111.74 : F Fractured, 55 Deg to CA 3 mm laminated chlorite. 112.16 - 112.17 : F Fractured, 45 Deg to CA 4 mm laminated chlorite. 112.82 - 112.83 : F Fractured, 40 Deg to CA 2 mm laminated chlorite. 114.40 - 114.41 : F Fractured, 40 Deg to CA 4 mm chlorite>quartz. 114.70 - 114.80 Blocky but no structures. Probably broken by drillers.						
120.00	120.01	**EOH, End of Hole** 21 boxes. Blocks are +3 m in boxes 12 and 13. No samples.							