Bergvesenet rapport nr	Intern Journal nr	Internt arkiv nr	Rapport lokalisering	Gradering
4828	06/00131			**Fortrolig**
Kommer fra ..arkiv	Ekstern rapport nr	Oversendt fra Sulfidmalm a.s.	Fortrolig pga Muting	Fortrolig fra dato:

Tittel

2006 Winter Drilling Program, Drilling, Borehole & Geophysics. Espedalen Prosject
Inneholder appendix A,B,C,D,E
Med CD

Forfatter	Dato År	Bedrift (Oppdragsgiver og/eller oppdragstaker)
Tirschmann, Patti Weiershäuser, L.	23.10 2006	Sulfidmalm A/S Lamontagne Geophysics LTD McKeown Exploration Services

Kommune	Fylke	Bergdistrikt	1: 50 000 kartblad	1: 250 000 kartblad
Sør-Fron Gausdal	Oppland		17171 17172	Lillehammer

Fagområde	Dokument type	Forekomster (forekomst, gruvefelt, undersøkelsesfelt)
Boring Geofysikk		Stormyra Vesle Andreasberg Jorstad Storgruva Evans Statsråd Stang Nicoline Melgårdseter Stylskampen Søndre Gråhø Grimstjønna Dalen
Råstoffgruppe	**Råstofftype**	
Malm/metall	Cu Ni	

Sammendrag, innholdsfortegnelse eller innholdsbeskrivelse

Inneholder appendix
A: List of personnel
B: Local grid coordinate conversion data
C: Winter 2006 UTEM and Drill Proposal
D: Drill Logs
E: Assay Certificates

Med CD: 2006 Winter Drilling& Geophysical program oct 2006

06/00131

2006 Winter Program
Drilling, Borehole & Surface Geophysics

Espedalen Project

Oppland County, Norway

P. Tirschmann &
L. Weiershäuser

Falconbridge Limited
for
Sulfidmalm A/S

October 23, 2006

Summary and Recommendations

The Espedalen project is located approximately 170 km north of Oslo and 50 km north of Lillehammer, Norway. The project is an option and joint venture between Sulfidmalm A/S (Norway), a wholly-owned subsidiary of Falconbridge Limited, and Blackstone Ventures Inc. (Canada). Exploration programs are carried out by Falconbridge Limited on behalf of Sulfidmalm.

This report summarizes the results of a drilling and surface/borehole geophysical program carried out in the winter of 2006. The program consisted of 1,261.5m of drilling in five (5) drillholes, 21 borehole UTEM surveys and 61.5 line km of surface UTEM surveying.

The mandate of the work program was to enhance the economics of the project by significantly adding to the existing Stormyra mineralization and by locating new, large, high quality UTEM targets for drill testing. The winter work program was successful is verifying continuity of the southeastern portion of the Stormyra zone but did not result in the identification of any new sulphide zones at Stormyra or any new *sizeable, high conductance* UTEM targets elsewhere on the property. One reconnaissance drill target (Dalhaugen) was not tested as an equitable agreement with the landowner regarding dill access could not be reached.

The drilling was focused in the Stormyra area where a preliminary inferred nickel sulphide resource of 312,000 tonnes @ 2.37% Ni or 2.95% Ni equivalent was previously defined along the northwestern portion of the mineralized zone. The current drilling was designed to test for a) the possible down-plunge extension of magmatic (versus remobilized) mineralization and b) additional sulphide lenses down-dip along the northwestern portion of the Stormyra zone, below the detection limit of the surface UTEM.

Three of five drillholes at Stormyra intersected nickel mineralization:

ES2006-51: 2.32% Ni, 0.58% Cu & 0.07% Co / 0.30m

ES2006-52: 1.46% Ni, 0.38% Cu, 0.06%Co / 4.57m including
6.86% Ni, 1.31% Cu & 0.19%Co / 0.51m, 2.91% Ni, 0.54% Cu & 0.09% Co / 0.30m and 2.05% Ni, 0.64% Cu & 0.05% Co / 0.42m

ES2006-55: 2.24% Ni, 0.92% Cu & 0.05% Co / 0.78m including
4.36% Ni, 1.44% Cu & 0.11% Co / 0.33m

The narrow (<1m) and remobilized nature of the semi-massive and massive sulphide intersections along with the borehole UTEM results suggest that the size potential of the

overall zone is limited (i.e. < double the size of the existing preliminary inferred resource). The drilling did not identify any down-plunge lenses or down-dip extensions. The 2006 drilling also indicated limited potential for finding new mineralization in the immediate area due to the relatively shallow depth to the base of the Espedalen Complex stratigraphy.

The borehole UTEM results from the 2004 and 2005 reconnaissance drillholes were found to correlate well with mineralization intersected in the holes but the surveys did not identify any new; large, high quality off-hole anomalies.

The surface UTEM survey was designed to test the remaining core of the Espedalen Complex below treeline where previously untested AEM anomalies were present. The surface UTEM survey identified three new UTEM conductors of variable conductance (75 – 1000 siemens) but limited areal extent (as indicated by modeled dip extents ranging from 30-60m). One of the conductors, ESP_36_26, is coincident with a discreet 300m x 150m magnetic high and has a strong likelihood of representing magmatic sulphides.

In addition to Stormyra, significant nickeliferous mineralization exists at Storgruva extension, Vesle, Trona, Jørstad and Gråho. Drilling and UTEM surveying to date indicates that the sulphide zones are of limited size (< 250,000 tonnes). The one exception is Jørstad which may have the potential to be in the 1-2 million tonne size range with a variable nickel tenor (~2 - 4.5% Ni in 100% sulphides).

Shortly before the writing of this report, Falconbridge Limited (and thus Sulfidmalm A/S) was acquired by Xstrata Plc. As a result, the company no longer has a mandate to carry out in-house, international greenfields exploration. Therefore, it is recommended that if further work is to be conducted on the Espedalen project it should be carried out under the operatorship of the joint venture partner, Blackstone Ventures Inc..

Further evaluation and drill testing of the known zones of nickel mineralization as well as the new UTEM targets at Espedalen may be required to determine if they are large enough and of sufficient nickel tenor to be collectively economic.

Table of Contents

List of Figures

List of Tables

List of Maps

Appendices

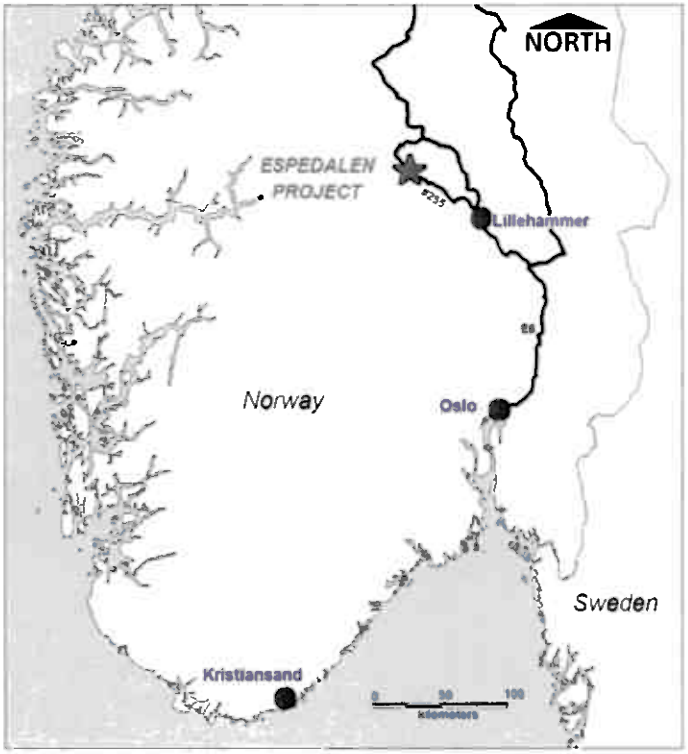
1.0 LOCATION, TOPOGRAPHY, AND ACCESS

The Espedalen project area is located 170 km north of Oslo in south central Norway. The project is situated within the kommunes of Gausdal and Sør-Fron in the Oppland fylke and is easily accessible by car along highway #255 approximately 50 km northwest of Lillehammer (Fig. 1).

The topography in the project area is rugged with local relief of up to 700m. Espedalen Lake trends NW-SE across the centre of property and is flanked on both sides by mountain peaks which reach elevations of up to 1,445m. The valley floor and lower portions of the mountain slopes are covered by coniferous forest which has been logged locally. Birch trees replace pine and spruce at higher elevation before the tree cover is replaced by grass, moss and shrubs above an elevation of approximately 1,100m.

Access to the field area is generally good via a well-developed system of secondary gravel roads as well as hiking and skiing trails. The majority of the ground in the Espedalen valley is held by private landowners with isolated blocks held under a "communal" designation. Blocks of state-held ground occur along the tops of the mountains. Permission to access the field areas with snowmobile, ATVs, and drill-related equipment is required from both the local kommunes and the landowners.

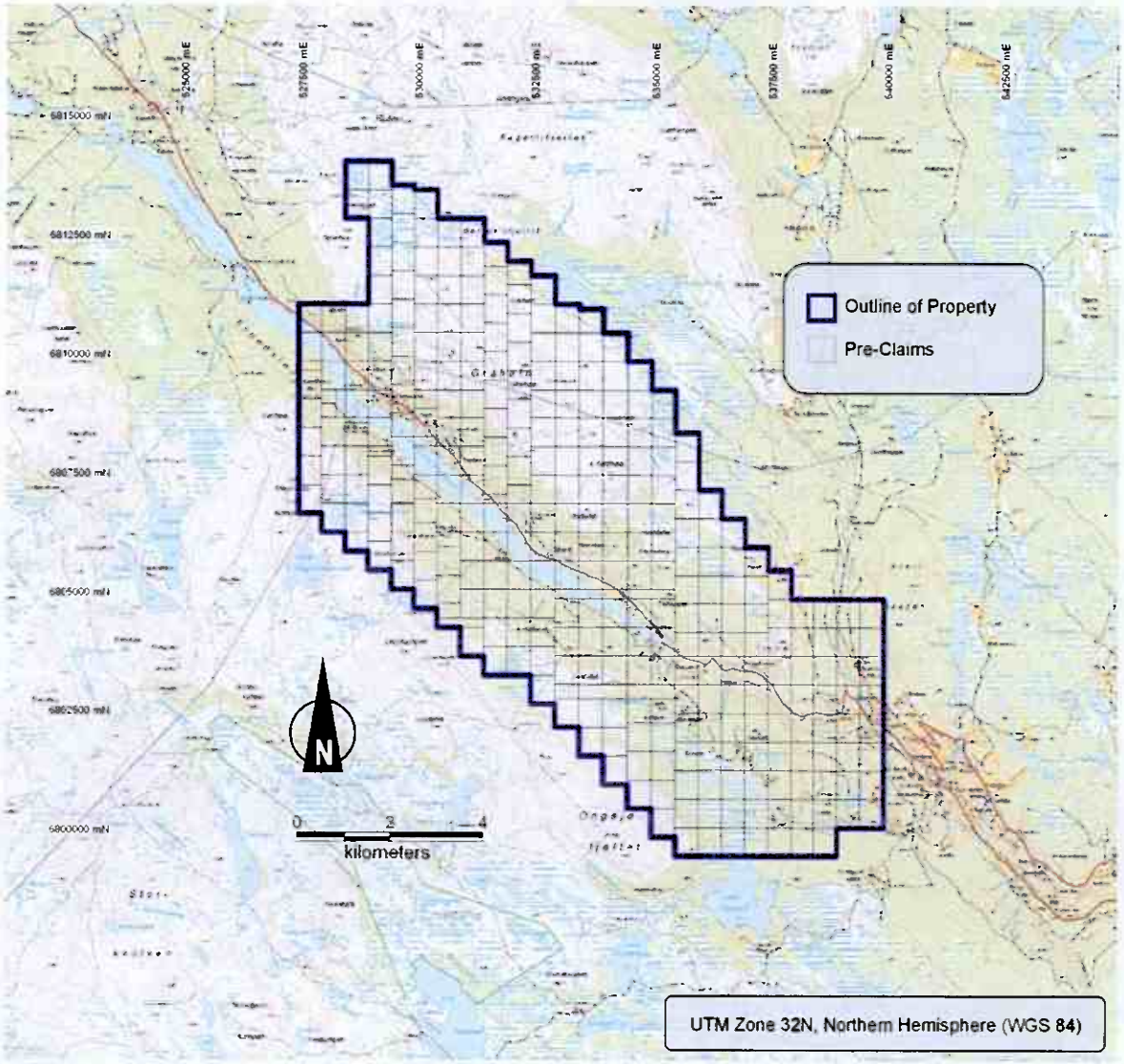
Figure 1
Location of the Espedalen Project Area



2.0 PROPERTY AND OWNERSHIP

At the time of the work reported herein, the Espedalen property consisted of 329 pre-claims or "mutinger" covering an area of 94.65 km^2 (Fig. 2). The pre-claims are registered to Sulfidmalm A/S (Norway), a wholly owned subsidiary of Falconbridge Nikkelverk (Norway) which is owned by Falconbridge Limited (Canada). Exploration on the project is carried out under an option and joint venture agreement between Sulfidmalm A/S and Blackstone Ventures Inc. (Canada). Work programs are carried out by Falconbridge Limited on behalf of Sulfidmalm.

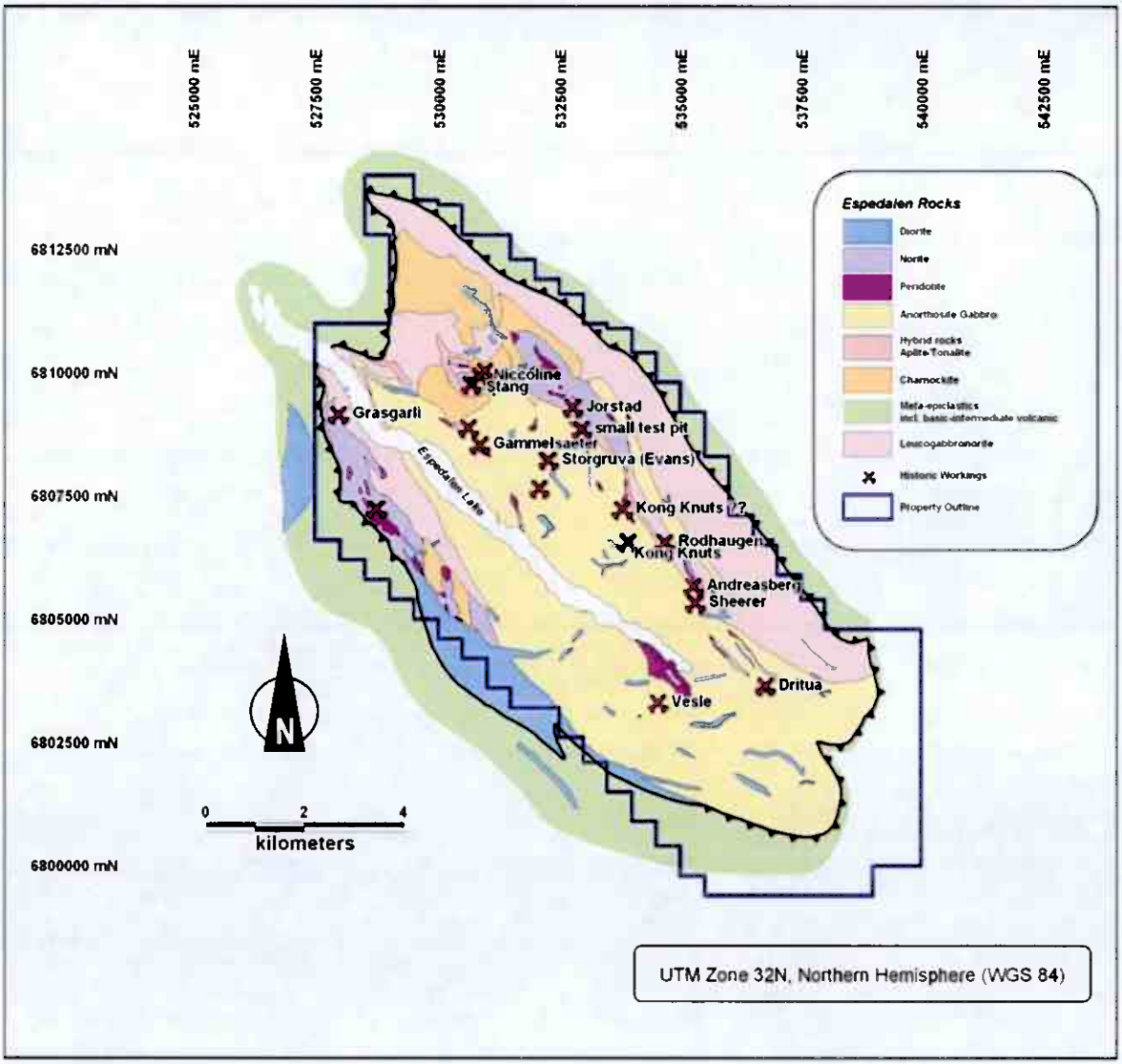
Figure 2
Espedalen Project Preclaims



3.0 GEOLOGIC SETTING

Espedalen is a historic nickel mining area which was active during the period 1848-1878. Numerous nickel workings and showings are hosted within differentiated mafic and ultramafic bodies which have intruded anorthositic country rocks (Fig. 3). This magmatic terrain is collectively referred to as the "Espedalen Complex" and forms the basement of the Gråho subnappe within the larger Caledonian Jotun Nappe.

Figure 3
General Geology of the Espedalen Project Area



The Espedalen Complex consists of metamorphosed syenites, norites, anorthosites, gabbros, pyroxenites and peridotites ranging in age from 1698-1250 Ma. The nappe was

emplaced in its current position during the Caledonide Orogeny but the original position of this unit is thought to have been west of the Norwegian coastline. Reconstructions place this position close to the west coast of Labrador and Voisey's Bay. The similarity in the ages of the rocks supports such a correlation.

Nickel mineralization is hosted in differentiated mafic to ultramafic intrusions consisting of peridotite, pyroxenite and norite. Disseminated to massive nickel mineralization is exposed in a series of old mine workings and showings, mainly concentrated on the NE side of Espedalen Lake. Grab samples have returned nickel values of up to 3.26% and nickel tenors ranging from 1.8% to 8.8%.

The presence of abundant nickel mineralization at surface combined with the paucity of modern exploration was the impetus for renewing exploration activities in this area in late 2002.

4.0 PREVIOUS WORK

The record of work completed prior to about 1960 is incomplete but Tables 1a and b summarize more modern exploration carried out after 1960. Sulfidmalm and Norsk Hydro worked in the area from the mid-1960's through to 1980 as listed in Table 1a. During this period, 44 drillholes, totaling approximately 3,500-4,000m, were completed, including: 38 at Nedre Megrundstjønnet, 4 at Jørstad, and 2 at Melgard. The best intersection was obtained at Nedre Megrundstjønnet; it contained 1.01% Ni and 0.32% Cu over 29m, including 3.18% Ni over 1m. Preliminary metallurgical tests of this material yielded concentrate grades of 15.0% Ni and 5.27% Cu with recoveries of 70.3% for Ni and 76.8% for Cu. Unfortunately, drilling failed to identify a large, continuous zone of mineralization. Sulfidmalm curtailed their nickel sulphide exploration efforts in Norway after 1980 and work on the Espedalen property ceased.

Falconbridge geologists visited the Espedalen area in late 2002 and initiated a new phase of exploration. An Option and Joint Venture Agreement was signed between Sulfidmalm A/S and Blackstone Ventures Inc. in August of 2003. Exploration has consisted of alternating phases of helicopter-borne geophysics, ground geophysics and drilling as outlined in Table 1b. To date, 1398 line-km of airborne geophysics and 290 line-km of ground UTEM (University of Toronto Electromagnetic System) have been completed on the property.

Work began in the winter of 2003 with a 29 line-km UTEM survey on the SW side of Espedalen Lake; the survey yielded two good EM anomalies. Based on these positive results, a 932 line-km helicopter-borne magnetic and frequency domain electromagnetic (EM) survey was contracted out to the NGU and flown in the fall of 2003 (Mogaard & Rønning, 2003). In late 2003, the airborne EM anomalies were prioritized and a plan was made for a follow-up ground geophysical program. A total of 123 line-km of surface UTEM work was completed in the winter of 2004, which outlined numerous prospective targets along known favorable nickel-bearing stratigraphy (Tirschmann, 2005). An initial drilling program was carried out during the summer of 2004. Based on favorable drilling results, an additional Hummingbird AEM survey totalling 466 line-km (Mogaard, 2005) was flown in the fall of 2004. In late 2004, the airborne EM anomalies were prioritized, followed by a 77 line-km follow-up ground UTEM survey carried out in early 2005 (Blair, 2005). Winter and summer drilling programs were completed in 2005 (Tirschmann and Blair, 2005). The winter drilling focused on the Stormyra zone and resulted in the definition of an at least 1000m long mineralized zone with a *preliminary* inferred resource estimate of 312,000 tonnes @ 2.37%Ni or 2.95% Ni equivalent in the northwestern half where drill hole spacing was dense enough for a preliminary calculation.

The summer 2005 drilling program focused on targets identified during the previous UTEM surveys. Nickel mineralization was intersected at several locations, notably Trona, Vesle, and Storgruva "extension". A winter drilling and surface/borehole UTEM program was completed in 2006 (see section 5, this report).

Table 1
Previous Work

***a)* Summary of work completed by Sulfidmalm & Norsk Hydro, mid 1960's -1980**

Period	Company	Description of Work
Mid-1960's	Sulfidmalm A/S	• Reconnaissance prospecting & geophysical surveys • claims acquired • slingram anomalies obtained over Andreasberg & Stangruva • no drilling
1970	Norsk Hydro	• helicopter mag-EM survey • 4 holes drilled at Jørstad Grid; best result was 0.35% Ni & 0.09% Cu/18.8m
1973	Sulfidmalm/Norsk Hydro	• joint venture formed
1974-1978	Sulfidmalm/Norsk	• mag, VLF & Mise a la Masse surveys

	Hydro	• 40 holes drilled incl. 2 at Melgard Grid, and 38 at Nedre Megrundstjønnet Grid (3,143m) • best result at Melgard was 0.47% Ni, 0.21% Cu & 1.95% S/12.75m • large zone of disseminated mineralization outlined at Nedre Megrundstjønne; poor correlation between sections; best intersection was 1.01% Ni & 0.32% Cu/29m incl. 3.18% Ni/1m
1979-1980	Sulfidmalm A/S	• supported a field mapping program by Michael Heim • 1:50,000 compilation map produced from original 1:5,000 mapping

b) Summary of Work Completed by Sulfidmalm A/S & Blackstone Ventures Inc., 2002- 2006

Period	Company	Description of Work
November 2002	Falconbridge Limited	• Initial property visit by Falconbridge geologists; grab samples collected from historic Ni showings /workings
January 2003	Sulfidmalm A/S	• First pre-claims acquired
April 2003	Sulfidmalm A/S	• 29 line km UTEM survey completed on SW side of Espedalen Lake
October 2003	Sulfidmalm A/S / Blackstone Ventures Inc.	• 932 line km helicopter-borne mag & frequency domain EM survey flown by NGU using Hummingbird system
Feb.-March 2004	Sulfidmalm A/S / Blackstone Ventures Inc.	• 123 line km UTEM survey, mainly on NE side of Espedalen Lake
July-Sept. 2004	Sulfidmalm A/S / Blackstone Ventures Inc	• 17 drillholes totaling 1,844.1m
October 2004	Sulfidmalm A/S / Blackstone Ventures Inc.	• 466 line km helicopter-borne mag & frequency domain EM survey flown by NGU using Hummingbird system, N and S of 2003 survey block
Feb.-March 2005	Sulfidmalm A/S / Blackstone Ventures Inc.	• 77 km UTEM survey, mainly south and west of Espedalen Lake
March-April 2005	Sulfidmalm A/S / Blackstone Ventures Inc	• 16 drillholes totaling 1,901.98m
July-Sept. 2005	Sulfidmalm A/S / Blackstone Ventures Inc	• 17 drillholes totaling 2,372m
Feb.-March 2006	Sulfidmalm A/S / Blackstone Ventures Inc	• 61.5 line km UTEM survey, lower elevation N and S of Espedalen Lake (this report) • Borehole UTEM on 16 holes (this report) • 5 drillholes totaling 1261.5m (this report)

5.0 WINTER 2006 DIAMOND DRILLING, BOREHOLE & SURFACE GEOPHYSICS

5.1 Introduction

The 2006 winter field program was carried out between February 16th and April 2nd and consisted of the following:

- 1,261.5m of drilling in 5 holes
- 21 borehole UTEM surveys
- 61.5 line km of surface UTEM surveying

Field operations were based out of the Strand Fjellstue mountain hotel where Sulfidmalm had retained a leased cabin to function as an office and core logging facility.

Appendix A lists the personnel involved in the program and Appendix B contains the local grid coordinate conversion data pertinent to the drilling. Appendix C contains a copy of the winter 2006 Espedalen UTEM and drill proposal. Drill logs and assay certificates can be found in Appendices D and E, respectively. A plan map and a schematic longitudinal projection of the drilling as well as drill cross-sections are appended as series of maps in the back pockets of the report (Maps 1 through 7). Appendix F is a logistics report prepared by McKeown Exploration Services on the DGPS surveying and gridding. Appendix G is a report prepared by Lamontagne Geophysics Ltd. containing the data and interpretation relating to the surface and borehole UTEM surveys. Appendix H contains a listing of in-house borehole and surface UTEM modeling completed by A. Watts.

5.2 Winter 2006 Drilling Program

The 2006 winter drilling program was carried out between March 3rd and April 2nd, 2006 and consisted of 5 holes (ES2006-51–ES2006-55) totaling 1,261.5m (Map 1, back pocket). The goal of the program was to test for significant extensions to the Stormyra mineralization in order to increase the preliminary inferred resource thus making it more economically attractive (see Appendix C for details). Drillholes were specifically targeted to test for a) possible down-plunge extensions of the inferred magmatic (versus remobilized) portion of the Stormyra zone (ES2006-51, 52 & 55) and b) additional sulphide lenses down-dip of the Stormyra zone (ES2006-53 & 54). Three of the holes (ES2006-51, 52 & 55) were also designed to provide additional pierce points on the known remobilized portion of the Stormyra zone.

Drill core was sampled on-site using a rock saw with half of the core sent for analysis and the other half retained in the core box. Samples were shipped to SGS Lakefield Research in Canada for processing and analyzed for nickel, copper, cobalt (pyrosulfate

fusion XRF), sulphur (LECO), platinum, palladium, gold (fire assay, ICP-OES) and silver (strong acid, AAS).

The drilling program was carried out under winter conditions using track-mounted equipment. Snow scooters were used for transportation of personnel and drill core. The construction of drill roads was not necessary since the snow pack was thick enough to cover and protect all vegetation except trees. Permissions for drill access and the use of off-road motorized vehicles were obtained from private landowners, the local kommunes, communal land organizations and representatives of Statskog ("state forest").

Environmental inspections were completed on all drillsites to ensure that the sites were left in a clean and tidy state. Casings were left in all holes and casing caps inscribed with the hole number were installed.

5.3 Results of the Winter 2006 Drilling Program

Holes ES2006-51, 52 and 55 intersected narrow, remobilized semi-massive to massive sulphide mineralization correlated with the known Stormyra Zone (see Table 2 & Map 2). Unfortunately, none of the holes identified either down plunge extensions or additional down-dip lenses related to the Stormyra mineralization. The best nickel result of the program was a 0.51m long massive sulphide intersection in hole ER2006-52 from 80.41 to 80.92m which assayed of 6.86% Ni, 1.31% Cu and 0.19% Co.

Four of the five holes intersected the basal contact of the Espedalen complex at a shallower than expected depth which further limits the amount of prospective stratigraphy in this area.

It should be noted that planned drill testing of one reconnaissance target (Dalhaugen) could not be carried out as an equitable agreement with the landowner regarding dill access could not be reached.

Details of the 2006 drilling are given below:

ES2006-51 *Line 11850E / 3205N Azimuth: 230°; Dip: -78°*

This hole was proposed to test for the possible SE down-plunge extension of the Stormyra main magmatic zone. The collar position was also designed to give a new intersection of known mineralization between sections 11800E and 11900E. The hole collared into a thick sequence of tectonized and saussuritized anorthosite cut by meter-scale mafic and minor ultramafic dikes. The hole proceeded through 6m of ultramafic schist, followed by 16m of anorthosite and a mafic dike before it intersected the footwall contact of

Table 2
Summary of Results - 2006 Winter Drilling

Hole #	From	To	Length	Ni (%)	Cu (%)	Co (%)	S (%)	Pt (g/t)	Pd (g/t)	Au (g/t)	Ag (g/t)
ES2006-51	105.09	105.39	0.30	2.32	0.58	0.07	9.70	<0.02	0.06	0.04	0.80
ES2006-52	80.41	84.98	4.57	1.46	0.38	0.06	7.50	0.14	0.08	0.03	0.38
Including:											
ES2006-52	80.41	80.92	0.51	6.86	1.31	0.19	31.00	0.08	0.21	< 0.02	1.00
ES2006-52	81.40	81.70	0.30	2.91	0.54	0.09	16.2	0.10	0.05	< 0.02	< 0.50
ES2006-52	82.55	82.97	0.42	2.05	0.64	0.05	9.82	1.24	0.46	0.18	0.80
ES2006-52	83.48	84.48	1.00	0.83	0.42	0.07	5.82	<0.02	0.02	0.03	< 0.50
ES2006-52	84.48	84.98	0.50	0.73	0.13	0.07	5.07	< 0.02	< 0.02	< 0.02	< 0.50
ES2006-53	All samples below detection limit										
ES2006-54	No samples taken										
ES2006-55	55.57	56.35	0.78	2.24	0.92	0.05	10.55	0.02	0.02	< 0.02	0.74
Including:											
ES2006-55	55.57	55.90	0.33	4.36	1.44	0.11	19.6	0.02	<0.02	< 0.02	1.40
ES2006-55	55.90	56.35	0.45	0.69	0.53	< 0.02	3.91	0.02	0.02	< 0.02	< 0.50
Detection Limits:				0.05%	0.05%	0.02%	0.01%	0.02 g/t	0.02 g/t	0.02 g/t	0.50 g/t

Note: For weighted averages, half detection limit was used for those samples with elements below detection (e.g. <0.05% Ni –> 0.025% Ni).

the Espedalen contact at a depth of 203.82m. The footwall rocks consist of meta-volcanics and meta-volcaniclastics. The hole reached a final depth of 249.00m.

Mineralization intersected in the hole included a) three cm-scale pyrrhotite and pyrite-bearing massive sulphide stringers between 98.22m and 105.86m and b) disseminated pyrrhotite with associated minor pyrrhotite stingers in the aforementioned ultramafic schist between 180.92m and 187.04m. The former mineralization correlates well with the Stormyra zone as intersected on sections 11800E and 11900E and the best assay returned was 2.32% Ni, 0.58% Cu and 0.07% Co over 0.30m from 105.09m to 105.39m. The weakly mineralized ultramafic schist deep in the hole is interpreted to represent the main target horizon (i.e. possible down-plunge extension of the *magmatic* portion of the Stormyra zone). The ultramafic unit could be correlated with the main Stormyra ultramafic body assuming a 15° plunge and 50° - 55° dip or could represent a separate narrow ultramafic body. Unfortunately, it did not contain any appreciable nickel mineralization (samples below detection limit for Ni).

ES2006-52 *Line 12050E / 3250N* *Azimuth: 230°; Dip: -80.5°*

This hole was proposed to test for the possible SE down-plunge extension of the Stormyra main magmatic zone. The collar position was also designed to give a new intersection of known mineralization between sections 12000E and 12100E. The hole collared into a thick sequence of tectonized and saussuritized anorthosite cut by meter-scale mafic and minor ultramafic dikes. A narrow peridotitic ultramafic unit was intersected from 143.75 – 147.10m followed downhole by more anorthosite and mafic dikes. The basal contact of the Espedalen complex was intersected at 189.67m, shallower than the target depth of ~200m assuming a 15° plunge and 45° - 65° dip of the main mineralized body.

Mineralization consisting of cm to dm scale remobilized massive sulphide stringers was intersected between 80.41m and 84.98m and averaged 1.46% Ni, 0.38% Cu and 0.06% Co over 4.57m. Included within this zone was a **51cm vein of pentlandite-bearing massive sulphide from 80.41 – 80.92m which assayed 6.86% Ni, 1.31% Cu and 0.19% Co (Figure 4).** Conductance measurements on uncut core ranged from 600 - 3750 siemens. The mineralization correlates with the Stormyra zone intersected on sections 12000E and 12100E.

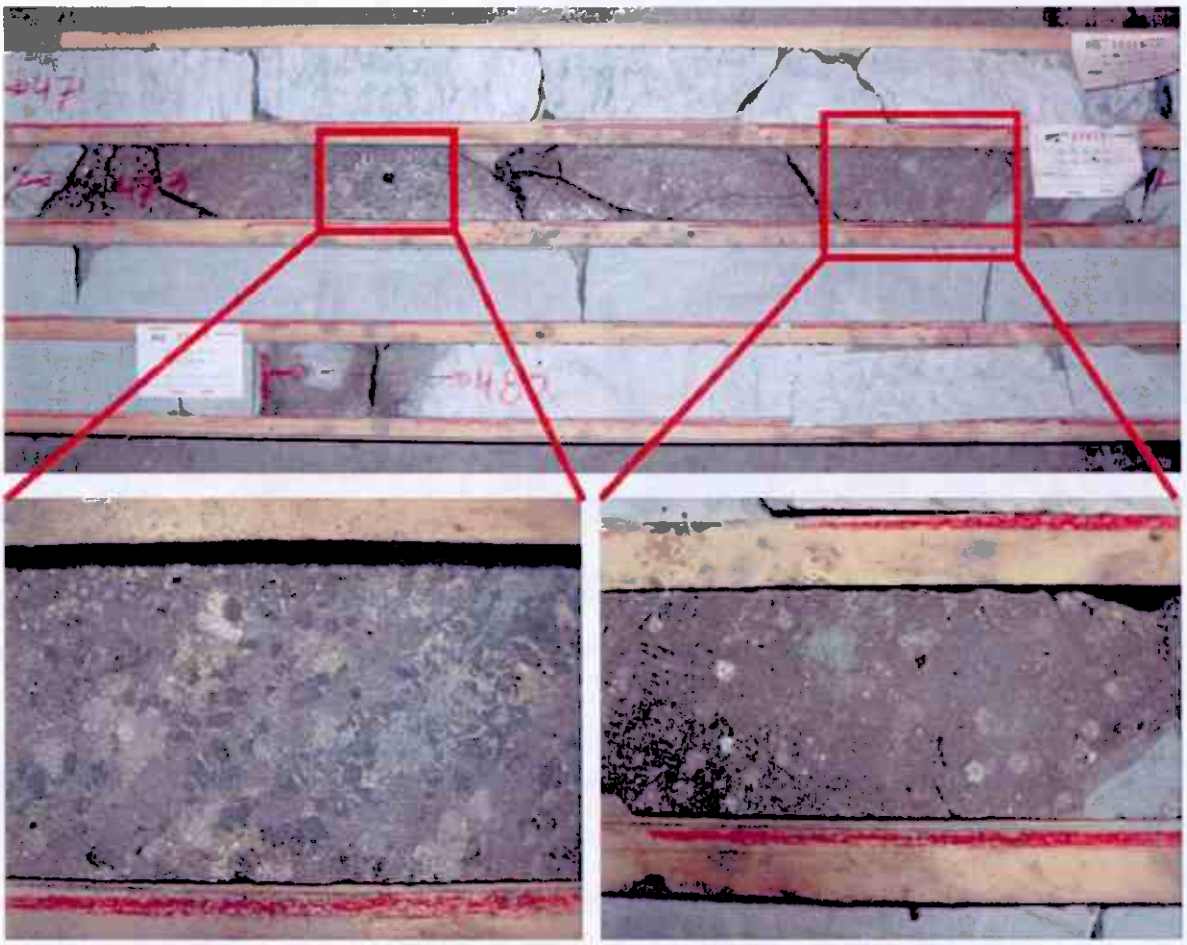


Figure 4: Pentlandite-bearing massive sulphide intersection in ES2006-52. Note coarse mm scale pentlandite "eyes". (80.41 – 80.92m: 6.86%Ni, 1.31%Cu & 0.19%Co over 0.51m).

ES2006-53 *Line 11650E / 3280N* *Azimuth: 230°; Dip: -70°*

This hole was proposed to test the concept of additional sulphide lenses down-dip from the known Stormyra zone below the detection limit of UTEM. The hole was collared into a thick sequence of tectonized and saussuritized anorthosite with intercalated minor mafic units. An unmineralized peridotite was intersected from 182.78m – 185.35m. This unit is interpreted to be the target horizon. The basal contact of the Espedalen complex was not intersected in this hole. No significant mineralization was intersected and all samples returned Ni values less than the detection limit.

ES2006-54 *Line 11450E / 3130N* *Azimuth: 230°; Dip: -71°*

This hole was proposed to test the concept of additional sulphide lenses down-dip from the known Stormyra zone below the UTEM detection limit. The hole was collared into a thick sequence of tectonized and saussuritized anorthosite with intercalated minor mafic units. An unmineralized peridotite was intersected from 13.07m – 26.38m. An unmineralized pyroxenite from 195.00m – 199.67m is interpreted to be the target horizon and can be correlated with the main mineralized Stormyra ultramafic body, assuming a 63° dip. The basal contact of the Espedalen complex was intersected at a depth of 225.67m. No mineralization was intersected in this hole.

ES2006-55 *Line 12250E / 3320N* *Azimuth: 230°; Dip: -80°*

This hole was proposed to test the SE down-plunge extension of the Stormyra main remobilized zone. The collar position was also designed to give a new intersection of known mineralization between sections 12200E and 12300E. The hole collared into a thick sequence of tectonized and saussuritized anorthosite cut by meter-scale mafic and ultramafic dikes (unmineralized). Remobilized semi-massive, pentlandite-bearing stringers hosted in anorthosite were intersected from 55.57m – 56.35m and averaged 2.24% Ni, 0.92% Cu and 0.05% Co over 0.78m including 4.36% Ni, 1.44% Cu and 0.11% Co over 0.33m. The conductance of the uncut core reached 2900 S. This mineralization correlates with the Stormyra zone intersected on sections 12200E and 12300E. The basal contact of the Espedalen complex was intersected at a depth of 196.39m.

5.4 Quality Assurance and Quality Control (QAQC)

In order to monitor the quality of assay data, field and laboratory standards with known values were analyzed alongside all samples and randomly selected samples were analyzed in duplicate. Field standards consisted of ore samples from operating mines that were homogenized, analyzed, and packaged by SGS Lakefield Research Limited. At least one field standard was submitted for every 25 regular samples. In cases where less than 25 samples were submitted to the laboratory, at least one field standard was submitted.

In addition to field standards, SGS Lakefield Research Limited processed internal laboratory standards with each batch of samples. Results from both field and laboratory standard assays were reported to the client. In the case where assay results for any standard differed by more than two standard deviations, samples in the affected batch were re-analyzed.

Such was the case with a batch of samples that contained field sample PG00475, which was analyzed to contain 1.96% Ni (versus the accepted value of 1.76% Ni) (see Table 3). The rerun did not yield significantly different values suggesting that the Ni content of the field standard itself was significantly higher than the accepted value.

Table 3 shows the assay results of field and laboratory standards compared to accepted values as well as the results for all samples run in duplicate. A summary of accepted values for all standards can be found in Appendix E.

Table 3
Analytical Results of Field / Laboratory Standards and Duplicate Samples

		Ni (%)	Cu (%)	Co (%)	S (%)	Pt (g/t)	Pd (g/t)	Au (g/t)	Ag (g/t)
Field Standards & Accepted Values	PG00450	1.720	0.330	0.040	9.720	0.070	0.150	0.020	< 0.5
	Re-run 450	1.700	0.370	0.050					
	PG00475	1.960	0.400	0.060	11.000	0.090	0.170	< 0.02	< 0.5
	Re-run 475	1.903	0.440	0.050					
	PG00500	1.740	0.360	0.060	10.300	0.080	0.160	0.830	< 0.5
	Accepted	1.761	0.374	0.056	10.738	0.077	0.155	0.028	
Laboratory Standards from two Batches and Accepted Values	PTC-1A	10.100	13.400	0.290					
	PTC-1A	10.100	13.300	0.290					
	Accepted	10.030	13.510	0.300					
	nbm-1				0.310				
	nbm-1				0.280				
	Accepted				0.298				
	RTS-1				1.660				
	RTS-1				1.650				
	Accepted				1.660				
	RTS-2				18.700				
	Accepted				18.950				
	CZN-3				31.600				44.600
	CZN-3				31.600				43.600
	Accepted				31.600				45.000
	WMS_1					1.920	1.210	0.530	
	WMS_1					1.970	1.190	0.240	
	Accepted					1.741	1.185	0.279	
	SU1a	1.240	0.990	0.040					
	Accepted	1.233	0.967	0.041					
	Ni1 XRF	0.970	0.290	0.020					
	Accepted	1.003	0.302	0.031					
Duplicate Samples	PG 00452	0.050	< 0.05	< 0.02	0.940	< 0.02	< 0.02	0.020	< 0.5
	PG 00452	0.050	< 0.05	< 0.02	0.960	< 0.02	< 0.02	0.020	< 0.5
	PG 00472	< 0.05	< 0.05	< 0.02	0.010	< 0.02	< 0.02	< 0.02	< 0.5
	PG 00472	< 0.05	< 0.05	< 0.02	0.010	< 0.02	< 0.02	< 0.02	< 0.5
Duplicate	PG 00483	0.080	0.050	< 0.02	0.150	< 0.02	< 0.02	< 0.02	< 0.5

Samples									
	PG 00483	0.070	< 0.05	< 0.02	0.050	< 0.02	< 0.02	< 0.02	< 0.5
	PG 00492	< 0.05	< 0.05	< 0.02	0.090	< 0.02	< 0.02	< 0.02	< 0.5
	PG 00492	< 0.05	< 0.05	< 0.02	0.080	< 0.02	< 0.02	< 0.02	< 0.5

5.5 Results of the Borehole UTEM Surveys

Single component borehole UTEM surveys were completed by Lamontagne Geophysics Ltd. in twenty–one holes including the five 2006 Stormyra holes and sixteen holes from the 2004 and 2005 drilling campaigns. The data has been reviewed by A. Watts and results are summarized in Table 4.

Stormyra:

At Stormyra, in-hole edge responses in holes ES2006-51 and 52 and a "near" off-hole response in hole ES2006-55 all correlated with the Stormyra zone. A preliminary UTEM model was generated by A. Watts for the off-hole anomaly in ES2006-55 (see Appendix H). The model further supported the interpretation of a limited dip extent for the Stormyra zone (i.e. modeled dip extent = 42-60m). No off-hole responses indicating new targets were identified.

2004/2005 Reconnaissance Drillholes:

In-hole responses in the 2004/2005 drillholes correlated well with intersected mineralization. Of these, the mineralization intersected at Jørstad (ES2004-14 & 15; ES2005-41), Vesle (ES2005-42), Storgruva Extension (ES2005-37) and Gråho (ES2005-38) was significantly nickeliferous.

Off-hole responses were obtained in holes ES2005-36 (Storgruva Extension), ES2005-43/44 (Vesle), ES2005-39 (Gråho) and ES2005-46 (Stormyra Extension). At Storgruva extension and Vesle, the off-hole anomalies are attributed to the known nickeliferous mineralization. At Gråho, the off-hole anomaly can be correlated with disseminated pyrrhotite in gabbronorite which assayed < 0.10% Ni. At Stormyra extension, the off-hole response is a weak feature only observed in ~ channels 6-10.

Borehole and surface UTEM data indicate the nickeliferous sulphide zones at Storgruva Extension, Vesle and Gråho (i.e. hole 38 area) are of limited size (< 250,000 tonnes). The nickeliferous sulphide accumulation at Jørstad has the potential to be in the size range of 1-2 million tonnes with a variable nickel tenor (~2 - 4.5% Ni in 100% sulphides).

Table 4
Results of 2006 Borehole UTEM Surveying

a) 2006 Stormyra Drillholes

Borehole	Line No.	Purpose of Hole	Borehole UTEM Results
ES2006-51	11850E	Test for possible down-plunge extent of Stormyra Zone	In-hole edge anomaly @ ~ 100m; correlates with cm scale po-py-pn stringers, esp. from 105.09-105.39m (2.32% Ni, 0.58% Cu & 0.07% Co). Stormyra Zone.
ES2006-52	12050E	Test for possible down-plunge extent of Stormyra Zone	In-hole edge anomaly @ ~ 90m; correlates with narrow massive sulphides and stringer sulphides from 80.41-84.98m (1.46% Ni, 0.38% Cu & 0.06% Co / 4.57m). Stormyra Zone
ES2006-53	11650E	Test for additional sulphide lenses down-dip of the Stormyra Zone	No anomalies.
ES2006-54	11450E	Test for additional sulphide lenses down-dip of the Stormyra Zone	No anomalies.
ES2006-55	12250E	Test for possible down-plunge extent of Stormyra Zone	"Near" off-hole anomaly @ 55m; correlates with remobilized semi-massive sulphides stringers intersected from 55.57-55.90m (4.36% Ni, 1.44% Cu & 0.11% Co / 0.33m). Stormyra Zone.

b) 2004/2005 Reconnaissance Drillholes

Drillhole	Area	Interpretation
2004/2005:		
ES2004-14	Jørstad	Moderate conductivity in-hole @ 84m; correlates with net-textured and SMS mineralization (e.g. 0.99% Ni, 0.10% Cu & 0.08% Co/0.45m).
ES2004-15	Jørstad	Primary, moderate conductivity in-hole response @ 55m; secondary in-hole response @ 75m; responses correlate with mineralized norite, pyroxenite and metasediments (e.g. 0.44% Ni, 0.22% Cu & 0.04% Co/4.95m).
ES2005-41	Jørstad	Moderate conductance in-hole intersected @ 150m; correlates with mineralized pyroxenite and metasediments intersected from 142.10-152.00m (0.45% Ni, 0.19% Cu & 0.03% Co/9.90m). Width of Jørstad mineralization appears to increase down-dip based on hole 41.
ES2005-35	Trona	Low conductivity in-hole responses @ 35m and 60m; responses correlate with weakly nickeliferous mineralization intersected in pyroxenite and gabbronorite; best intersection in hole (1.73% Ni/1.53m) from 14.65-16.18m was too close to the casing to be adequately covered by BHUTEM.
ES2005-36	Storgruva Ext.	Moderate conductance off-hole anomaly @ 145m, approx. 10-15m away from hole; likely correlates with mineralization intersected in hole ES2006-37.
ES2005-37	Storgruva Ext.	Moderate conductivity in-hole edge response @ ~ 138m; correlates with MS stringers and veins intersected between 130.50m and 136.90m averaging 0.96% Ni, 0.39% Cu & 0.08% Co/6.40m.

ES2005-38	Gråho	Low conductance (Ch 6-10) in-hole response @ 55m; correlates with zone of 10% disseminated po in peridotite which averaged 0.74% Ni, 0.16% Cu & 0.05% Co/1.9m from 52.60-54.50m.
ES2005-39	Gråho	Low conductance in-hole response @ 65m; correlates with a zone of 10% blebby po in pyroxenite from 65.90-66.90m (<0.10% Ni). Moderate conductance, narrow off-hole response @ 82m; intersected 10-15% po in gabbronorite from 79.15-81.25m (<0.10% Ni).
ES2005-40	Gråho	No significant anomalies; minor in-hole "deflection" @ 40m.
ES2005-42	Vesle	Partial, moderate conductance (Ch2) in-hole anomaly @ 10m.
ES2005-43	Vesle	Partial, moderate conductance off-hole anomaly @ 10m, approx. 5-10m away from hole.
ES2005-44	Vesle	Partial, moderate conductance off-hole anomaly @ 15m, approx. 5-10m away from hole.
ES2005-45	Stormyra Ext.	In-hole anomaly @ 107m; correlates with mineralized peridotite (0.23%Ni, 0.14% Cu, 0.03% Co/8.73m).
ES2005-46	Stormyra Ext.	Possible weak off-hole @ 70m.
ES2005-47	Stormyra Ext.	No anomalies.
ES2005-48	Stormyra Ext.	No anomalies.

5.6 Winter 2006 Surface Geophysics

5.6.1 Introduction

The winter program consisted of 61.5 line km of gridding and UTEM surveying and was carried out during the period February 16th to March 15th, 2006. The main goal of the program was to identify new, sizeable, high conductance EM anomalies which would merit drill follow-up. The surveying was focused over the favorable core of the Espedalen Complex and included coverage over known AEM anomalies and discordant magnetic features (see Appendix F). These areas were not previously surveyed, largely due to the challenging logistics of acquiring data over steep, heavily forested slopes east and west of Espedalen Lake. As a result of recent geological compilation and modeling, the anorthositic core of the Espedalen Complex was deemed a prospective location to look for large, high grade deposits within a feeder system environment.

In addition, two grids in the Trona and Vesle areas were designed to:

- test for mineralization along-strike to the NW of the original Trona drilling where both discordant magnetic features and AEM anomalies exist
- test for mineralization along strike to the SE of historic Vesle nickel workings (one discordant magnetic feature present

Appendix A includes a list of field personnel involved in the surface geophysical program.

5.6.2 Grid Preparation

Eight grids and geophysical loops were established by McKeown Exploration Services (with help from Falconbridge and Sulfidmalm personnel) during the period January 23rd to February 20th. The gridding team consisted of two operators and two or three helpers. Grids were established using real-time differential global positioning (DGPS) systems, which utilized a locally established base station for real-time kinematic (RTK) measurements. This system is superior in areas with thick three cover and steep topography. DGPS control was used on both the grids and the geophysical loops in order to provide the location and elevation accuracy (x, y, and z) required for detailed geophysical modeling.

The grids consisted of lines spaced 200m apart, except for a few areas of high interest where lines were spaced 100m apart. Stations were set at 25m intervals along each line and marked by thin bamboo pickets. All grids were oriented at 50° from UTM grid N, consistent with local grid coordinates used during the 2003, 2004, and 2005 UTEM surveys (Appendix B). Bamboo pickets were collected upon completion of the survey in order to return the survey area to its original state.

Appendix F consists of a detailed report by McKeown Exploration Services on the winter 2006 DGPS surveying and grid work.

5.6.3 Surface UTEM Geophysical Survey

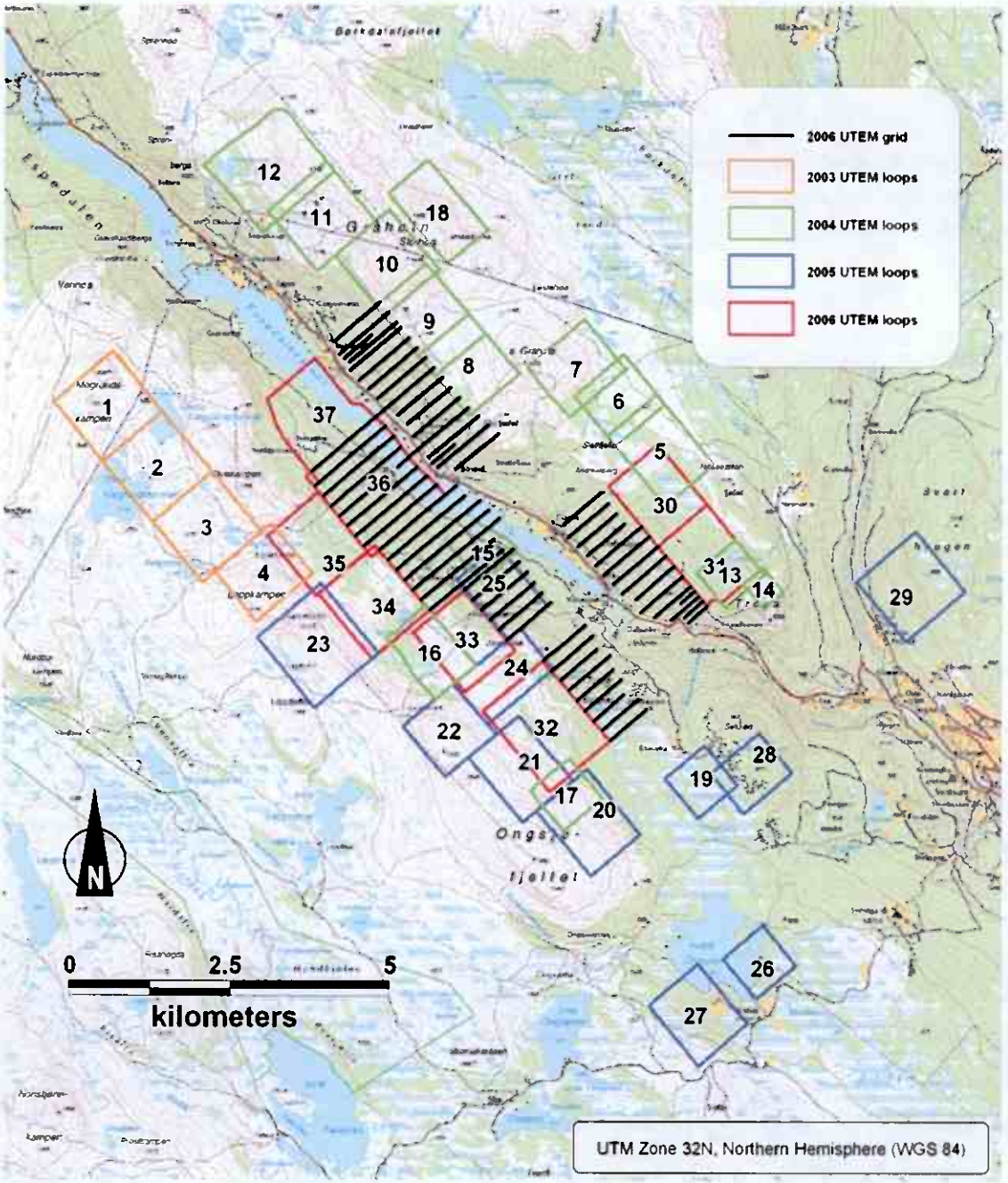
Lamontagne Geophysics Limited carried out 61.5 line km of UTEM surveying between the dates of February 16th and March 15th, 2006. The UTEM crew consisted of two Lamontagne operators, one Lamontagne helper and one Falconbridge / Sulfidmalm helper.

Surveying was conducted using eight rectangular transmitter loops consisting of narrow gauge (1.7mm) copper wire and ranging in size from 1000 x 1200m to 1500 x 1450m. Loops were numbered sequentially so as to be continuous with the 2003 – 2005 surveys (Loops 30-37, Figure 5). Data was collected in "off-loop" configurations on 200m spaced lines at a station interval of 25m. Line spacing was tightened to 100m in areas of higher interest.

Appendix G consists of a detailed interpretation report by Lamontagne Geophysics on the winter 2006 UTEM surveying. The report contains a description of the survey logistics and methodology, a full listing of the UTEM profiles, interpretation of results and details of the selected UTEM modeling.

Figure 5

Location of all Espedalen UTEM loops and 2006 winter UTEM grids



5.6.4 Results of Surface UTEM Geophysical Survey

The 2006 surface UTEM survey did not identify any high conductance anomalies *of significant size*, which was the main goal of the program. However, three new prospective UTEM anomalies of more limited areal extent were identified and are coincident with previous AEM anomalies. Modeling by Lamontagne (Appendix G) yielded the following plate parameters:

Conductor	Line Number	Northing	Conductance	Strike Length	Dip Extent
ESP_30_24	8400E	~5575N	75 siemens (250 siemens)	200 m (300m)	50 m (100m)
ESP_35_25	L5300E	~2475N	500 siemens	200 m	30 m
ESP_36_26	L6200E	~4250N	1000 siemens	150 m	50 m

Anomaly ESP_36-26 has the highest conductance and is located immediately north of the Strand Fjellstue mountain hotel. The anomaly is coincident with a discreet 300m x 150m magnetic high and has a strong likelihood of representing magmatic sulphides. In-house modeling by A. Watts (Appendix H) resulted in similar plate parameters to those obtained by Lamontagne.

Anomaly ESP_35_25 is located on the west side of Espedalen Lake approximately 600m NE of drillhole ES2004-17 ("Stylskampen"). The anomaly is coincident with southern end of linear magnetic high and can be traced intermittently for another ~ 1000m to the southeast as evidenced by weak Ch1-5 UTEM responses.

Anomaly ESP_30_24 is located approximately 500m south of the historic Andreasberg nickel workings and has been modeled as two separate UTEM plates.

Two additional weak UTEM anomalies were identified in the Trona area on L9600E (~5575N) and L10300E (~5800N), respectively. The one on L9600E only shows up in the first few channels of the UTEM data and was not modeled. The other on L10300E correlates with a previous UTEM anomaly drill tested by hole ES2005-35 (see Appendix H for in-house model).

7.0 Summary

Previous geophysical and drilling campaigns have been successful in identifying nickel sulphide mineralization at a number of locations throughout out the property. To date the largest of these is the Stormyra zone (312,000 tonnes @ 2.37% Ni). Clearly many of mafic/ultramafic intrusions within the Espedalen Complex attained sulphur saturation and were part of a nickel mineralizing system.

The 2006 winter work program was focused primarily on identifying a) significant extensions to the Stormyra mineralization and b) new, large scale UTEM anomalies but did not meet with substantial success in achieving either of these two mandates.

The 2006 Stormyra drilling and borehole UTEM was successful in proving continuity of the mineralization along the southwestern portion of the zone. However, the narrow (<1m) and remobilized nature of the semi-massive and massive sulphide intersections suggests that size potential of the overall zone will be limited (i.e. < double the size of the existing preliminary inferred resource). In addition, no down-plunge lenses or down-dip extensions to the Stormyra mineralization were found.

Likewise, the 2006 surface UTEM survey did not yield any large, high conductance targets. However, three new UTEM conductors of variable conductance (75 – 1000 siemens) but limited areal extent were obtained. Size *estimates* (based on the modeled plate parameters and assumed widths/specific gravity) of the three new UTEM anomalies suggest these targets likely range from 50,000 – 200,000 tonnes in size with one plate possibly up to ~500,000 tonnes. Anomaly ESP_36_26 is coincident with a discreet magnetic high and has a strong likelihood of representing magmatic sulphides.

Borehole UTEM results from the 2004 and 2005 reconnaissance drillholes were found to correlate well with mineralization intersected in the holes but did not identify any new, large, high quality off-hole anomalies.

Taken together, the borehole and surface UTEM data indicate the existing nickeliferous sulphide zones at Storgruva Extension, Vesle and Gråho (i.e. hole 38 area) are of limited size (< 250,000 tonnes). The nickeliferous sulphide accumulation at Jørstad may have the potential to be in the size range of 1-2 million tonnes with a variable nickel tenor (~2 - 4.5% Ni in 100% sulphides).

8.0 References

Blair, T.B., 2005: 2005 Winter Geophysical Program, Espedalen, Oppland county, Norway, July 5, 2005, Falconbridge Limited for Sulfidmalm A/S, Toronto, Ontario, Canada.

Mogaard, J.O., 2005: Data Acquisition and Processing – Helicopter Geophysical survey, Espedalen 2004, Oppland county, Norway (for A/S Sulfidmalm), NGU Report 2005.001, January 25, 2005,11pp.

Mogaard, J.O., and Rønning, J.S., 2003: Data Acquisition and Processing – Helicopter Geophysical survey, Espedalen, Oppland county, Norway (for A/S Sulfidmalm), NGU Report 2003.093, December 19, 2003, 11pp.

Tirschmann, P.A., 2005: 2004 Winter Geophysical Program, Espedalen. Oppland county, Norway, May 26, 2005, Falconbridge Limited for Sulfidmalm A/S, Toronto, Ontario, Canada.

Tirschmann, P.A. and Blair, T.B., 2005: 2004 – 2005 Drilling Programs, Espedalen Project, Oppland County, Norway, December 7, 2005, Falconbridge Limited for Sulfidmalm A/S, Toronto, Ontario, Canada.

Appendix A/B

APPENDIX A

LIST OF FIELD PERSONNEL

Falconbridge Limited:	Patti Tirschmann	Senior Geologist
	Yannick Beaudoin	Project Geologist
	Robert Jones	Senior Field Geologist
Sulfidmalm A/S:	Finn Hansen	Field Manager – Logistics
	Lars Weiershäuser	Senior Field Geologist
	Johann Kolrud	Field Assistant

APPENDIX B

LOCAL GRID COORDINATE CONVERSION DATA

Common coordinates between the local Espedalen grid and UTM WGS84 Zone 32N are as follows:

	Easting	Northing
Local Espedalen Grid	0	0
Rotation	050°	
UTM WGS84 Zone 32N	525500	6808100

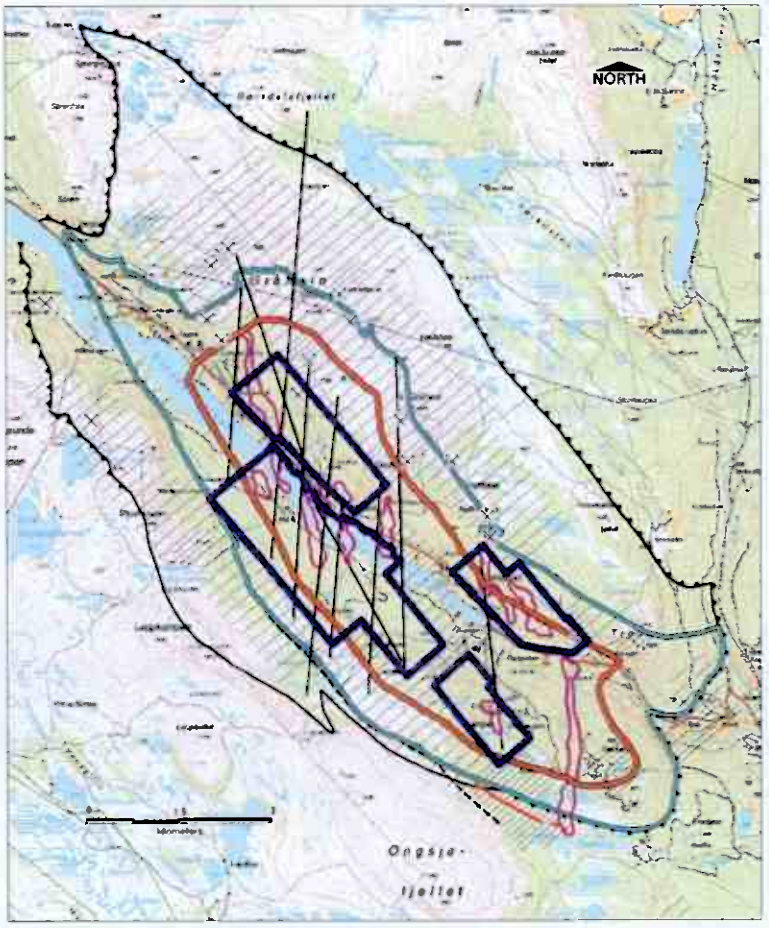
Note: *All the Espedalen grids are in the same coordinate system.*

Appendix C

UTEM Surveys

The UTEM surveys are scheduled to begin in early February with borehole surveys in holes that intersected significant mineralization in 2005 (Trona, Vesle, Storgruva Extension), as well as, 4 holes drilled along strike to the north of Stormyra that were testing the Stormyra stratigraphy. This will be followed by approximately 70 line km of UTEM surveying over known AEM anomalies and associated cross cutting magnetic features that occur within the favourable core of the Espedalen anorthosite complex. This area had not been selected for surveyed in the past due to it's more difficult logistics (wooded slopes) that requires differential GPS surveying with a base station. Our pioneering work in this type of terrain last year proved the method to be very effective.

A geological model has been constructed that indicates that the core of the anorthosite may be the most favourable location for a large high grade deposit at Espedalen, as it is located in the feader system to larger more voluminous ultramafics higher in the sequence. Virtually all of the best drill hole intersections and mines occur along a key zone below the anorthosite – ultramafic / norite contact. This zone is virtually untested with ground geophysics and will be targeted by this years surveying.



Proposed Winter 2006 UTEM

70 line km

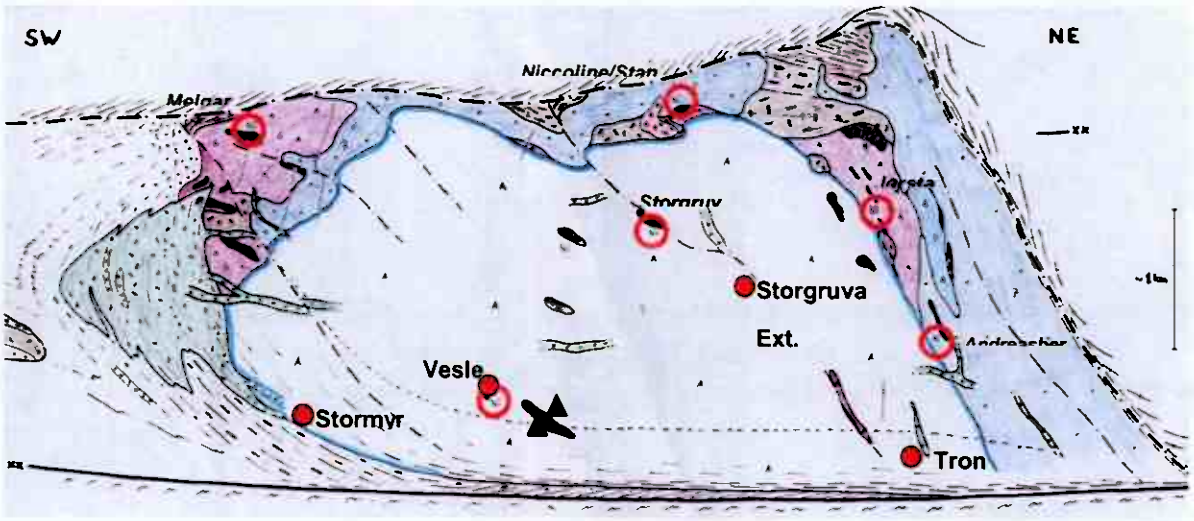
Proposed Grids

Key Stratigraphic Horizon

Anorthosite - Mafic/UM

Contact
Discordant Mag Features

Espedalen Project – Composite Geological Cross-section



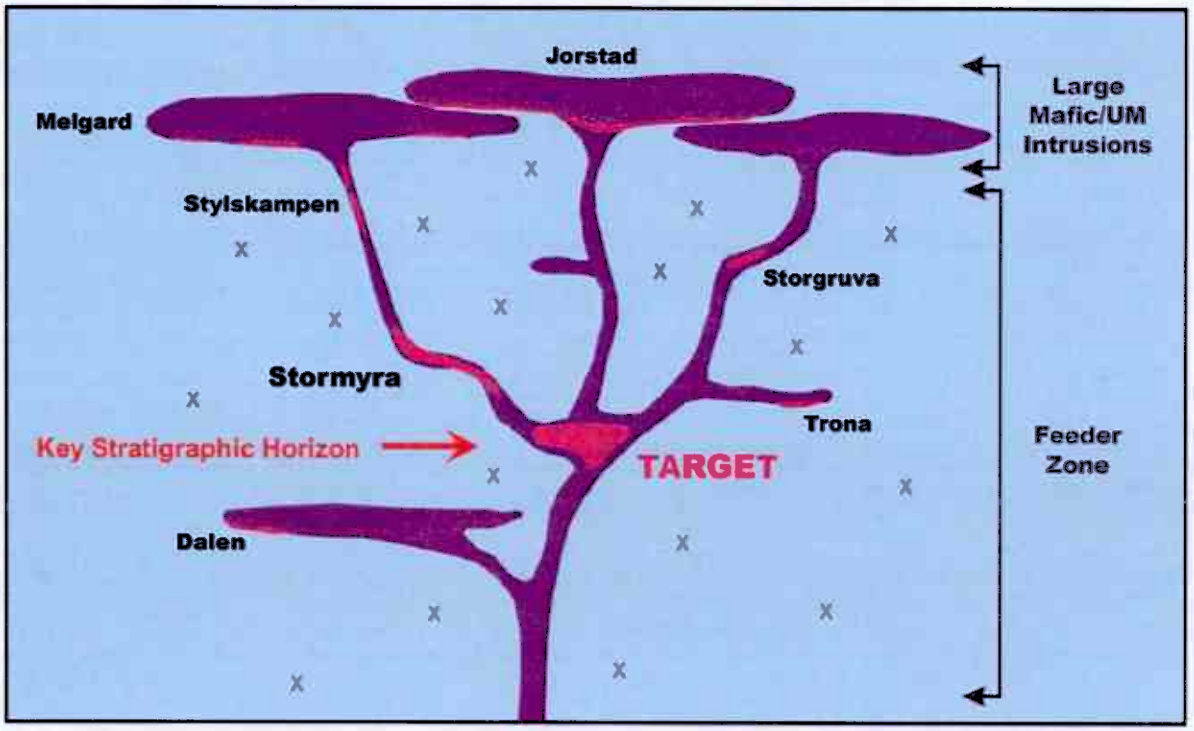
Significant New Nickel Mineralization

Historic Mines

Untested Good Quality UTEM Conductors

A = Anorthosite

Espedalen Project – Conceptual Magmatic Model



Ni Mineralization

Mafic-Ultramafic

Anorthosite

APPENDIX C

WINTER 2006 UTEM AND DRILL PROPOSAL FOR ESPEDALEN

FALCONBRIDGE
International Nickel Exploration
Toronto

Memorandum

Date: December 8, 2005

Memo to: Dave Gower

Copy to: Ted Barnett

From: P.Manojlovic

Subject: **Winter 2006 UTEM and Drill Proposal for Espedalen**

Summary

A US$450,000 program is proposed for the 2006 winter season at Espedalen. The proposed program consists of a 5 hole, 1,500 m drill program to test for possible down dip and plunge extensions of the Stormyra Zone ($US225,000). In addition, 75 line km of UTEM surveying is proposed to cover highly favourable stratigraphy in the core of Espedalen anorthosite complex (US$225,000).

The recommended work would be 100% funded by Sulfidmalm as part of it's back-in right. Sulfidmalm is required to spend CDN$1,000,000 by July 1, 2006 in order to retain this right. Currently Sulfidmalm has spent approximately CDN$380,000 to-date, and with this program and the 2006 property renewal fees, expenditures should total CDN$1,000,000 by July 1, 2006. In that this program is to be 100% funded by Sulfidmalm, internal budgetary approval is required very soon to allow the winter program to proceed.

Diamond Drill Program

Diamond drilling is designed to test two concepts. The first concept falls from an interpretation that the Stormyra Zone has two components:

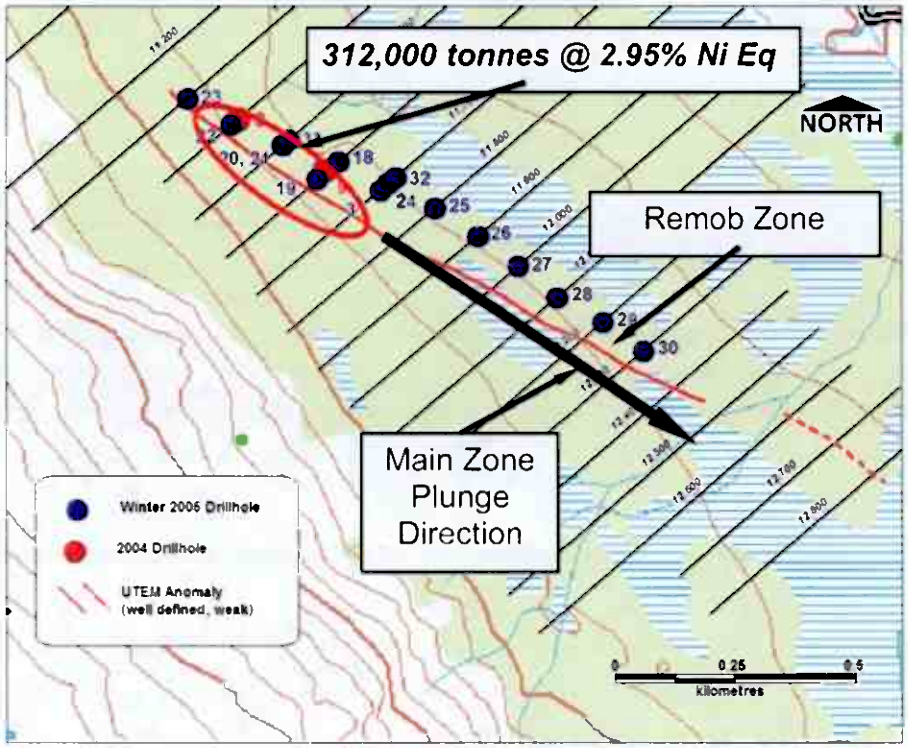
1. A main zone to the northwest from which the best intersections have come to-date.
2. A remob zone to the southeast where sulphides have been remobilized along a structure.

Both zones have different dips and plunges. The Main Zone dips at 60 to 70° to the northeast and plunges 15° to the southeast while the Remob Zone dips 10 to 20° to the northeast and plunges 5° to the northwest.

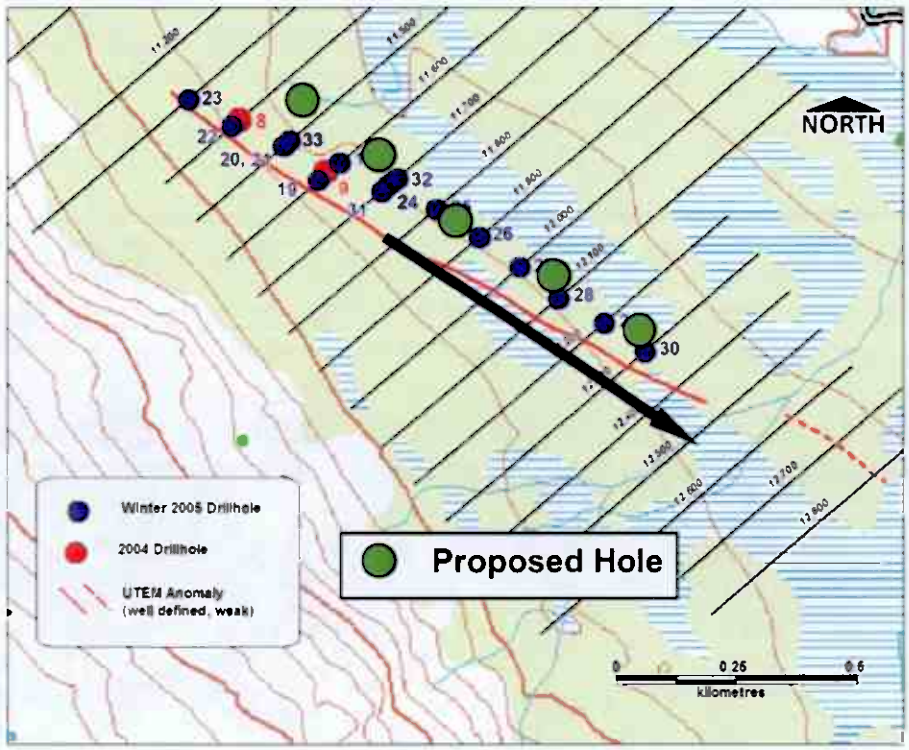
Three holes of 300 m length are planned to test for the down plunge extension of the Main Zone below the depth of UTEM detection (200 m). Owing to the geometry of the two zones, these holes will also pass through the Remob Zone providing 3 new intercepts into this zone.

The second concept is that sulphides occur along and down dip on a mineralized horizon. Two holes of 300 m length are planned to test the concept for down dip mineralization below the thicker economic intersections at a depth that is below the depth of surface UTEM detection (200 m).

STORMYRA



STORMYRA



Appendix D

APPENDIX D

DRILL LOGS

Detailed Log

Hole Number: **ES2006-51** Units: METRIC

Project Name:	Espedalen	Collar Survey:	N	Plugged	N	Core Storage:	Strand Fjellstue
Project Number:	300	Mulitshot Survey:	N	Hole Size:	TT46	Contractor:	Arctic Drilling A/S
Date Started:	3/5/2006	Pulse EM Survey:	N				
Date Completed:	3/9/2006	Casing:	Left in Hole, capped			Logged by:	ybeaudoin
		Location:	Surface				

UTM WGS 84 Coord		Local Coord	
UTM Northing:	6,801,082.50	Local Northing:	3204.93
UTM Easting:	535,572.00	Local Easting:	1850.04
Elevation:	961.56		

Collar Dip:	78.00
Collar Azimuth:	230.00
Length:	249.00

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 volcaniclastics.

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.

Detailed Lithology

From	To		Lithology
0.00	9.60	C	Casing

Assay Data

Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t

Detailed Lithology			Assay Data										
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
9.60	21.67	**4s Sausseritized/Tectonized Anorthosite** 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). **Minor Interval** 19.60 20.35 **10f Mafic dykes** 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. Structure 13.20 13.21 Sm General Foliation Structure 21.66 21.67 LC Lower Contact sharp												
21.67	29.87	**10f Mafic dykes** 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. Rare disseminated pyrite/pyrrhotite and mm-scale pyrite cubes are observed (e.g. 26.3 m). Structure 26.20 26.21 Sm General Foliation												

Detailed Lithology			Assay Data										
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
29.87	49.50	**4s Sausseritized/Tectonized Anorthosite** 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.											
		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.											
		Alteration 38.45 42.03 HM Hematite P Pervasive M Moderate											
		Structure 37.99 38.00 Sm General Foliation											
		Structure 46.99 47.00 Sm General Foliation											
		Structure 49.49 49.50 LC Lower Contact sharp											

Detailed Lithology			Assay Data										
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
49.50	62.39	**10f Mafic dykes** Fine-grained dark gray to greenish-black, non-magnetic, homogeneous, finely foliated mafic rock, composed of amphibole/pyroxene, chlorite, and alteration minerals. Patchy quartz-epidote alteration is observed locally (e.g. 54.60m). The upper contact is sharp at near 90 degrees tca, and the lower contact is sharp at 73 degrees tca. This unit contains trace disseminated po and py. Structure 52.99 53.00 Sm General Foliation												
62.39	71.14	**4s Sausseritized/Tectonized Anorthosite** Medium to fine -rained, heterogeneous, white to off-white, mottled, non-magnetic, moderately to highly foliated anorthosite. 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. The lower contact of this unit is sharp at 84 degrees tca, and the lower contact is sharp at 76 degrees tca. Structure 62.39 62.40 UC Upper Contact sharp Structure 71.13 71.14 LC Lower Contact sharp												
71.14	73.11	**10f Mafic dykes** 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 sharp Structure 73.10 73.11 LC Lower Contact moderately diffuse												

Detailed Lithology

From	To	Lithology
73.11	130.02	**4s Sausseritized/Tectonized Anorthosite** 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. Cm and dm-scale ultramafic schist bands are present throughout (see minor units for description of dm-scale bands). Three cm-scale bands of of massive po-py-pentlandite are found at 98.22m, 99.76m and 105.86m. The lower contact is sharp at near 90 degrees tca.
		Minor Interval
98.06	100.49	**10f Mafic dykes** 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. The upper contact is sharp at 82 degrees tca and the lower contact is sharp at 66 degrees tca. Two cm-scale bands of massive po-py-pent transect the unit at 98.22m and 99.76m (see mineralization section).
		Minor Interval
101.91	102.09	**6e Ultramafic Schist** Mineralized ultramafic schist containing disseminated po-py (0.5%). Upper and lower contacts are sharp at 88 degrees tca.
		Minor Interval
105.72	105.91	**6e Ultramafic Schist** Mineralized ultramafic schist. Disseminated po-py and a 5cm wide strongly magnetic po-py-pent stringer. Upper and lower contacts are sharp at 58 and 64 tca respectively.
Mineralization	98.22	98.23 90.0% Po Pyrrhotite STR Stringers po-py-pent
Mineralization	99.76	99.79 90.0% Po Pyrrhotite STR Stringers po-py-pent

Assay Data

Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
PG00433	96.99	98.05	1.06	0.03	0.03	0.01	0.01	0.01	0.01	0.01	0.25
PG00434	98.05	98.37	0.32	0.22	0.03	0.01	0.93	0.01	0.01	0.02	0.25
PG00435	98.37	99.55	1.18	0.03	0.03	0.01	0.18	0.01	0.01	0.01	0.25
PG00436	99.55	99.88	0.33	0.46	0.26	0.01	2.61	0.04	0.04	0.03	0.25
PG00437	99.88	100.48	0.60	0.03	0.03	0.01	0.22	0.01	0.01	0.01	0.25
PG00438	100.48	100.83	0.35	0.03	0.03	0.01	0.01	0.03	0.02	0.01	0.25
PG00439	100.83	101.11	0.28	0.03	0.03	0.01	0.50	0.08	0.05	0.01	0.25
PG00440	101.11	102.55	1.44	0.03	0.03	0.01	0.03	0.03	0.01	0.01	0.25
PG00441	102.55	102.95	0.40	0.03	0.03	0.01	0.18	0.02	0.01	0.01	0.25
PG00442	102.95	104.14	1.19	0.03	0.03	0.01	0.02	0.01	0.01	0.01	0.25
PG00443	104.14	104.44	0.30	0.03	0.03	0.01	0.31	0.01	0.01	0.03	0.25
PG00444	104.44	105.09	0.65	0.03	0.03	0.01	0.14	0.01	0.01	0.04	0.25
PG00445	105.09	105.39	0.30	2.32	0.58	0.07	9.70	0.01	0.06	0.04	0.80
PG00446	105.39	106.38	0.99	0.03	0.03	0.01	0.03	0.01	0.01	0.01	0.25

Detailed Lithology						Assay Data										
From	To	Lithology				Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
		Mineralization	105.72	105.86	0.5% Po D	Pyrrhotite Disseminated										
		Mineralization	105.86	105.91	90.0% Po STR po-py-pent	Pyrrhotite Stringers										
		Mineralization	109.30	109.31	0.5% Po F	Pyrrhotite Fracture-Controlled										
		Alteration	94.50	96.30	HM BN M	Hematite Banded Moderate										
		Structure	85.80	85.81	Sm	General Foliation										
		Structure	94.80	94.81	Sm	General Foliation										
		Structure	108.30	108.31	Sm	General Foliation										
		Structure	130.01	130.02	LC sharp	Lower Contact										

130.02 137.17 **10f Mafic dykes**

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.

The upper contact is sharp at near 90 degrees tca and the lower contact is sharp at 71 degrees tca.

This unit contains trace disseminated py-po.

Structure	130.02	130.03	UC sharp	Upper Contact
Structure	137.16	137.17	LC sharp	Lower Contact

Detailed Lithology			Assay Data										
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
137.17	180.92	**4s Sausseritized/Tectonized Anorthosite** Medium to fine grained, heterogeneous, white to green, non-magnetic, moderately to highly foliated anorthosite. 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. 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. A cm-scale gabbronoritic (7a) dykelet transects the anorthosite at 177.09m. From 174.02m - 180.94m the unit is highly tectonized, strongly foliated and finer grained. The lower contact of this unit is sharp along an ultramafic dyke/sill at 65 degrees to the ca. **Minor Interval** 145.35 146.14 **10f Mafic dykes** 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. The unit contains trace disseminatede po (py?). The upper and lower contacts are sharp at 80 and 78 degrees tca, respectively. **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.	PG00451	179.48	180.92	1.44	0.03	0.03	0.01	0.02	0.07	0.12	0.03	0.25

Detailed Lithology			Assay Data										
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
		Minor Interval												
	151.00 151.74	**10f Mafic dykes** 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. The unit contains trace disseminatede po (py?). The upper and lower contacts are sharp at 74 and 89 degrees tca, respectively.											
		Minor Interval												
	167.40 167.83	**10f Mafic dykes** 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. The upper and lower contacts are sharp at near 90 degrees tca.											
		Minor Interval												
	173.53 174.02	**6c Oikocrystic Pyroxenite** The unit consists of an altered (talc) pyroxenite with relict, biotized oikocrysts. The unit is moderately schistose, modertately magnetic with trace dissemninated sulphides (po). The upper and lower contacts are sharp at near 90 and 68 degreees tca, respectively.											
	Structure	137.17 137.18 UC Upper Contact sharp												
	Structure	180.19 180.20 Sm General Foliation strong												
	Structure	180.91 180.92 LC Lower Contact sharp												

Detailed Lithology

From	To	Lithology
180.92	187.04	**6e Ultramafic Schist** 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 1.0% Po D pent? Pyrrhotite Disseminated **Mineralization** 182.40 183.12 2.0% Po STR pent? Pyrrhotite Stringers **Structure** 180.92 180.93 UC sharp Upper Contact **Structure** 187.03 187.04 LC sharp Lower Contact

Assay Data

Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
PG00452	180.92	181.87	0.95	0.05	0.03	0.01	0.94	0.01	0.01	0.02	0.25
PG00453	181.87	182.87	1.00	0.03	0.03	0.01	0.66	0.01	0.01	0.01	0.25
PG00454	182.87	183.37	0.50	0.03	0.03	0.01	1.01	0.01	0.01	0.01	0.25
PG00455	183.37	183.77	0.40	0.03	0.03	0.01	0.34	0.01	0.01	0.01	0.25
PG00456	183.77	184.77	1.00	0.03	0.03	0.01	0.73	0.01	0.01	0.01	0.25
PG00457	184.77	185.77	1.00	0.03	0.03	0.01	0.29	0.01	0.01	0.01	0.25
PG00458	185.77	186.67	0.90	0.03	0.03	0.01	0.47	0.02	0.01	0.01	0.25
PG00459	186.67	187.07	0.40	0.03	0.03	0.01	1.04	0.01	0.01	0.01	0.25

Detailed Lithology

From	To	Lithology
187.04	193.54	**4s Sausseritized/Tectonized Anorthosite** 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. 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. Upper and lower contacts are sharp at near 90 degrees tca. **Minor Interval** 190.19 190.50 **6e Ultramafic Schist** **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. **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. Over the entire length, the unit contains ~0.5% po (pent?). Sulfides are disseminated. The upper and lower contacts are sharp at near 90 degrees tca. **Structure** 187.04 187.05 UC Upper Contact sharp **Structure** 188.00 188.01 Sm General Foliation strong **Structure** 193.53 193.54 LC Lower Contact sharp

Assay Data

Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
PG00460	187.07	188.48	1.41	0.03	0.03	0.01	0.04	0.01	0.01	0.01	0.25
PG00461	188.48	188.85	0.37	0.03	0.03	0.01	0.03	0.01	0.01	0.01	0.25
PG00462	188.85	190.19	1.34	0.03	0.03	0.01	0.06	0.01	0.01	0.01	0.25
PG00463	190.19	190.50	0.31	0.05	0.03	0.01	0.79	0.13	0.04	0.02	0.25
PG00464	190.50	190.91	0.41	0.03	0.03	0.01	0.07	0.08	0.05	0.03	0.25
PG00465	190.91	191.23	0.32	0.05	0.06	0.01	1.90	0.02	0.01	0.02	0.25
PG00466	191.23	191.81	0.58	0.03	0.03	0.01	0.02	0.02	0.01	0.01	0.25
PG00467	191.81	192.33	0.52	0.03	0.03	0.01	1.09	0.14	0.08	0.01	0.25
PG00468	192.33	192.73	0.40	0.03	0.03	0.01	0.17	0.02	0.01	0.01	0.25
PG00469	192.73	193.54	0.81	0.03	0.03	0.01	0.05	0.02	0.01	0.01	0.25

Detailed Lithology

From	To	Lithology
193.54	196.83	**10f Mafic dykes** 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. The upper contact is sharp at near 90 degrees tca and the lower contact is sharp at 88 degrees tca. **Structure** 193.67 193.68 UC Upper Contact sharp **Structure** 196.82 196.83 LC Lower Contact sharp
196.83	203.82	**4s Sausseritized/Tectonized Anorthosite** This unit contains patchy to pervasive (banded) saussuritization, 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 sharp **Structure** 201.00 201.01 Sm General Foliation strong **Structure** 203.81 203.82 LC Lower Contact sharp
203.82	249.00	**10d Volcaniclastics** 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). Variable grain size may indicate alternation between flows and volcaniclastics. Some coarser bands may represent near-surface intrusive bodies. Interpretation: Mafic metavolcanics, tuffs?; Late Proterozoic meta volcanics outside of anorthositic "Espedalen Complex". **Structure** 217.50 217.51 Sm General Foliation strong

Assay Data

Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
PG00470	193.54	193.85	0.31	0.03	0.03	0.01	0.09	0.01	0.01	0.01	0.25

Espedalen - Analysis

Hole Number: ES2006-51

Sample Number	From	To	Sample Length (m)	Ni%	Cu%	Co%	S%	Au g/t	Pt g/t	Pd g/t	Ag g/t	Pb%	Zn%	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI%	SUM %
PG00433	96.99	98.05	1.06	0.03	0.030.01		0.010.01		0.01	0.01	0.25																
PG00434	98.05	98.37	0.32	0.22	0.030.01		0.930.02		0.01	0.01	0.25																
PG00435	98.37	99.55	1.18	0.03	0.030.01		0.180.01		0.01	0.01	0.25																
PG00436	99.55	99.88	0.33	0.46	0.260.01		2.610.03		0.04	0.04	0.25																
PG00437	99.88	100.48	0.60	0.03	0.030.01		0.220.01		0.01	0.01	0.25																
PG00438	100.48	100.83	0.35	0.03	0.030.01		0.010.01		0.03	0.02	0.25																
PG00439	100.83	101.11	0.28	0.03	0.030.01		0.500.01		0.08	0.05	0.25																
PG00440	101.11	102.55	1.44	0.03	0.030.01		0.030.01		0.03	0.01	0.25																
PG00441	102.55	102.95	0.40	0.03	0.030.01		0.180.01		0.02	0.01	0.25																
PG00442	102.95	104.14	1.19	0.03	0.030.01		0.020.01		0.01	0.01	0.25																
PG00443	104.14	104.44	0.30	0.03	0.030.01		0.310.03		0.01	0.01	0.25																
PG00444	104.44	105.09	0.65	0.03	0.030.01		0.140.04		0.01	0.01	0.25																
PG00445	105.09	105.39	0.30	2.32	0.580.07		9.700.04		0.01	0.06	0.80																
PG00446	105.39	106.38	0.99	0.03	0.030.01		0.030.01		0.01	0.01	0.25																
PG00451	179.48	180.92	1.44	0.03	0.030.01		0.020.03		0.07	0.12	0.25																
PG00452	180.92	181.87	0.95	0.05	0.030.01		0.940.02		0.01	0.01	0.25																
PG00453	181.87	182.87	1.00	0.03	0.030.01		0.660.01		0.01	0.01	0.25																
PG00454	182.87	183.37	0.50	0.03	0.030.01		1.010.01		0.01	0.01	0.25																
PG00455	183.37	183.77	0.40	0.03	0.030.01		0.340.01		0.01	0.01	0.25																
PG00456	183.77	184.77	1.00	0.03	0.030.01		0.730.01		0.01	0.01	0.25																
PG00457	184.77	185.77	1.00	0.03	0.030.01		0.290.01		0.01	0.01	0.25																
PG00458	185.77	186.67	0.90	0.03	0.030.01		0.470.01		0.02	0.01	0.25																
PG00459	186.67	187.07	0.40	0.03	0.030.01		1.040.01		0.01	0.01	0.25																
PG00460	187.07	188.48	1.41	0.03	0.030.01		0.040.01		0.01	0.01	0.25																
PG00461	188.48	188.85	0.37	0.03	0.030.01		0.030.01		0.01	0.01	0.25																
PG00462	188.85	190.19	1.34	0.03	0.030.01		0.060.01		0.01	0.01	0.25																
PG00463	190.19	190.50	0.31	0.05	0.030.01		0.790.02		0.13	0.04	0.25																
PG00464	190.50	190.91	0.41	0.03	0.030.01		0.070.03		0.08	0.05	0.25																
PG00465	190.91	191.23	0.32	0.05	0.060.01		1.900.02		0.02	0.01	0.25																

Espedalen - Analysis

Hole Number: ES2006-51

Sample Number	From	To	Sample Length (m)	Ni%	Cu%	Co%	S%	Au g/t	Pt g/t	Pd g/t	Ag g/t	Pb%	Zn%	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI%	SUM %
PG00466	191.23	191.81	0.58	0.03	0.03	0.01	0.02	0.01	0.02	0.01	0.25																
PG00467	191.81	192.33	0.52	0.03	0.03	0.01	1.09	0.01	0.14	0.08	0.25																
PG00468	192.33	192.73	0.40	0.03	0.03	0.01	0.17	0.01	0.02	0.01	0.25																
PG00469	192.73	193.54	0.81	0.03	0.03	0.01	0.05	0.01	0.02	0.01	0.25																
PG00470	193.54	193.85	0.31	0.03	0.03	0.01	0.09	0.01	0.01	0.01	0.25																

Espedalen - Magnetic Susceptibility		Hole Number: ES2006-51
DEPTH	MAGNETIC SUSCEPTIBILITY (X 10^{-3} SI)	COMMENTS
10.00	0.07	
11.00	0.03	
12.00	0.06	
13.00	0.01	
14.00	0.04	
15.00	0.06	
16.00	0.02	
17.00	0.02	
18.00	0.04	
19.00	0.19	
20.00	0.22	
21.00	0.03	
22.00	0.33	
23.00	2.54	
24.00	0.62	
25.00	0.44	
26.00	0.10	
27.00	0.30	
28.00	0.31	
29.00	0.20	
30.00	0.15	
31.00	0.04	
32.00	0.34	
33.00	0.05	
34.00	0.07	
35.00	0.02	
36.00	0.01	
37.00	0.01	
38.00	0.15	
39.00	0.11	
40.00	0.14	
41.00	0.14	
42.00	0.16	
43.00	0.14	
44.00	0.16	
45.00	0.03	
46.00	0.13	
47.00	0.10	

Espedalen - Magnetic Susceptibility		Hole Number: ES2006-51
48.00	0.48	
49.00	0.19	
50.00	0.59	
51.00	0.57	
52.00	0.27	
53.00	0.25	
54.00	0.39	
55.00	0.25	
56.00	0.39	
57.00	0.49	
58.00	0.39	
59.00	0.34	
60.00	0.25	
61.00	0.29	
62.00	0.06	
63.00	0.02	
64.00	0.02	
65.00	0.02	
66.00	0.03	
67.00	0.04	
68.00	0.05	
69.00	0.07	
70.00	0.08	
71.00	0.11	
72.00	0.56	
73.00	0.86	
74.00	0.21	
75.00	0.22	
76.00	0.40	
77.00	0.18	
78.00	0.12	
79.00	0.15	
80.00	0.21	
81.00	0.06	
82.00	0.15	
83.00	0.29	
84.00	0.23	
85.00	0.31	
86.00	0.18	
87.00	0.23	
88.00	0.22	

Espedalen - Magnetic Susceptibility		Hole Number: ES2006-51
89.00	0.20	
90.00	0.12	
91.00	0.12	
92.00	0.15	
93.00	0.17	
94.00	0.08	
95.00	0.20	
96.00	0.27	
97.00	0.17	
98.00	0.19	
99.00	0.65	
100.00	0.62	
101.00	1.69	
102.00	0.13	
103.00	0.15	
104.00	3.89	
105.00	0.17	
106.00	0.11	
107.00	0.18	
108.00	0.15	
109.00	0.12	
110.00	0.12	
111.00	0.12	
112.00	0.10	
113.00	0.10	
114.00	0.10	
115.00	0.17	
116.00	0.17	
117.00	0.09	
118.00	0.17	
119.00	0.05	
120.00	0.24	
121.00	0.03	
122.00	0.06	
123.00	0.06	
124.00	0.02	
125.00	0.04	
126.00	0.02	
127.00	0.05	
128.00	0.05	
129.00	0.07	

Espedalen - Magnetic Susceptibility	Hole Number: ES2006-51

130.00	0.46	
131.00	0.41	
132.00	0.40	
133.00	0.42	
134.00	0.47	
135.00	0.42	
136.00	0.42	
137.00	0.50	
138.00	0.12	
139.00	0.09	
140.00	0.05	
141.00	0.47	
142.00	0.06	
143.00	0.02	
144.00	0.06	
145.00	0.16	
146.00	0.94	
147.00	0.22	
148.00	0.04	
149.00	0.13	
150.00	0.09	
151.00	0.36	
152.00	0.02	
153.00	0.04	
154.00	0.10	
155.00	0.14	
156.00	0.01	
157.00	0.07	
158.00	0.07	–
159.00	0.29	
160.00	0.43	
161.00	0.07	
162.00	0.02	
163.00	0.05	
164.00	0.02	
165.00	0.07	
166.00	0.05	
167.00	0.06	
168.00	0.03	
169.00	0.34	
170.00	0.07	

Espedalen - Magnetic Susceptibility		Hole Number: ES2006-51
171.00	0.05	
172.00	0.08	
173.00	0.08	
174.00	0.63	
175.00	0.21	
176.00	0.20	
177.00	0.11	
178.00	0.16	
179.00	0.17	
180.00	0.14	
181.00	0.47	
182.00	0.21	
183.00	1.29	
184.00	0.79	
185.00	0.25	
186.00	0.98	
187.00	2.33	
188.00	0.12	
189.00	0.20	
190.00	0.09	
191.00	0.24	
192.00	2.64	
193.00	0.08	
194.00	0.38	
195.00	0.31	
196.00	0.15	
197.00	0.07	
198.00	0.42	
199.00	0.06	
200.00	0.11	
201.00	0.04	
202.00	0.07	
203.00	0.16	
204.00	0.27	
205.00	0.59	
206.00	0.29	
207.00	0.56	
208.00	0.59	
209.00	0.46	
210.00	0.77	
211.00	0.40	

Espedalen - Magnetic Susceptibility		Hole Number: ES2006-51
212.00	0.41	
213.00	0.40	
214.00	0.44	
215.00	0.15	
216.00	0.39	
217.00	0.44	
218.00	0.37	
219.00	0.15	
220.00	0.15	
221.00	0.15	
222.00	0.15	
223.00	0.20	
224.00	0.12	
225.00	0.91	
226.00	0.30	
227.00	0.16	
228.00	0.22	
229.00	0.11	
230.00	0.25	
231.00	0.21	
232.00	0.49	
233.00	0.60	
234.00	0.18	
235.00	0.21	
236.00	0.17	
237.00	0.31	
238.00	0.54	
239.00	0.17	
240.00	0.15	–
241.00	0.65	
242.00	0.55	
243.00	0.75	
244.00	0.19	
245.00	0.68	
246.00	0.73	
247.00	0.79	
248.00	0.34	
249.00	0.18	

Espedalen - Rock Quality (RQD)

Hole Number: ES2006-51

FROM	TO	PERCENT QUALITY	PERCENT CORE	DISKING	COMMENTS
0.00	9.60	100	100	N	CASING
9.60	12.00	80	100	N	
12.00	15.00	61	100	N	
15.00	18.00	62	100	N	
18.00	21.00	65	100	N	
21.00	24.00	57	100	N	
24.00	27.00	42	100	N	
27.00	30.00	39	100	N	
30.00	33.00	44	100	N	
33.00	36.00	70	100	N	
36.00	39.00	69	100	N	
39.00	42.00	79	100	N	
42.00	45.00	75	100	N	
45.00	48.00	73	100	N	
48.00	51.00	81	100	N	
51.00	54.00	87	100	N	
54.00	57.00	60	100	N	
57.00	60.00	84	100	N	
60.00	63.00	94	100	N	
63.00	66.00	87	100	N	
66.00	69.00	86	100	N	
69.00	72.00	92	100	N	
72.00	75.00	90	100	N	
75.00	78.00	93	100	N	
78.00	81.00	94	100	N	
81.00	84.00	94	100	N	
84.00	87.00	95	100	N	
87.00	90.00	97	100	N	
90.00	93.00	91	100	N	
93.00	96.00	87	100	N	
96.00	99.00	74	100	N	
99.00	102.00	75	100	N	
102.00	105.00	82	100	N	
105.00	108.00	77	100	N	
108.00	111.00	79	100	N	
111.00	114.00	83	100	N	
114.00	117.00	90	100	N	
117.00	120.00	97	100	N	
120.00	123.00	94	100	N	
123.00	126.00	81	100	N	
126.00	129.00	92	100	N	
129.00	132.00	97	100	N	

Espedalen - Rock Quality (RQD)

Hole Number: ES2006-51

132.00	135.00	97	100	N	
135.00	138.00	94	100	N	
138.00	141.00	81	100	N	
141.00	144.00	75	100	N	
144.00	147.00	93	100	N	
147.00	150.00	95	100	N	
150.00	153.00	88	100	N	
153.00	156.00	70	100	N	
156.00	159.00	84	100	N	
159.00	162.00	98	100	N	
162.00	165.00	99	100	N	
165.00	168.00	97	100	N	
168.00	171.00	93	100	N	
171.00	174.00	90	100	N	
174.00	177.00	96	100	N	
177.00	180.00	96	100	N	
180.00	183.00	94	100	N	
183.00	186.00	97	100	N	
186.00	189.00	96	100	N	
189.00	192.00	97	100	N	
192.00	195.00	98	100	N	
195.00	198.00	98	100	N	
198.00	201.00	97	100	N	
201.00	204.00	99	100	N	
204.00	207.00	100	100	N	
207.00	210.00	96	100	N	
210.00	213.00	99	100	N	
213.00	216.00	99	100	N	
216.00	219.00	100	100	N	
219.00	222.00	97	100	N	
222.00	225.00	99	100	N	
225.00	228.00	99	100	N	
228.00	231.00	97	100	N	
231.00	234.00	95	100	N	
234.00	237.00	97	100	N	
237.00	240.00	94	100	N	
240.00	243.00	93	100	N	
243.00	246.00	97	100	N	
246.00	249.00	57	100	N	

Detailed Log

Hole Number: **ES2006-52** Units: METRIC

Project Name:	Espedalen	Collar Survey:	N	Plugged	N		
Project Number:	300	Mulitshot Survey:	N	Hole Size:	TT46		
Date Started:	3/10/2006	Pulse EM Survey:	N				
Date Completed:	3/15/2006	Casing:	Left in Hole, capped				
		Location:	Surface				

UTM WGS 84 Coord		Local Coord	
UTM Northing:	6,800,958.00	Local Northing:	3249.98
UTM Easting:	535,917.40	Local Easting:	2050.07
Elevation:	961.44		

Core Storage:	Strand Fjellstue	Collar Dip:	-80.00
Contractor:	Arctic Drilling A/S	Collar Azimuth:	230.00
		Length:	271.20
Logged by:	ybeaudoin		

Comments

Purpose: To test the SE downplunge potential of the known Stormyra main mineralized zone.

Summary: Anorthosite/anorthositic gabbro sequence with ultramafic occurences.

The only major ultramafic occurence is from 145.75-147.10m and consists of a trace mineralized (py) peridotite.

Notable mineralization: 0.51m thick massive po-pn-ccp at 80.41m.
Numerous (<10cm) po-pn stringers from 81.45m to 86.99m.

Detailed Lithology

From	To	Lithology
0.00	9.95	C Casing
9.95	12.03	**10f Mafic dykes**

Fine-grained dark gray to greenish-black, locally weakly magnetic, homogeneous, finely foliated mafic rock, composed of amphibole/pyroxene, chlorite, and alteration minerals. The unit is strongly tectonized and is likely exhibiting the effects of a shear. Foliation is variable...~30 degrees tca to near perpendicular tca near lower contact (84 degrees tca).

Patchy quartz-epidote alteration is observed locally. The lower contact is sharp at 84 degrees tca.

Rare disseminated pyrite/pyrrhotite, mm-scale pyrite cubes and pyrite veinlets (fracture controlled) are observed.

Structure	10.00	10.01	Sm General Foliation strong
Structure	12.02	12.03	LC Lower Contact sharp

Assay Data

Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t

Detailed Lithology			Assay Data										
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
12.03	41.45	**4s Sausseritized/Tectonized Anorthosite** Medium grained, well foliated, grey-white-green, non-magnetic, saussuritized anorthosite that consists of varying amounts of plagioclase and mafic minerals. Alteration includes local hematization, ?sericitization; other alteration minerals include chlorite, epidote? and fuchsite (after 19.68m) . This unit is cut by dm-scale mafic intrusives which appear as fine grained, green-gray, non-magnetic, well foliated, unmineralized intrusions (dykes/sills) (see minor units for contact relationships and interval lengths). Cm-scale unmineralized ultramafic schists are also observed. Up to 19.68m, the unit is intensely foliated (shear zone). Beyond 19.68m, unit is less intensely foliated, more leucocratic and homogeneous. The upper contact is sharp at 84 degrees tca. The lower contact is sharp at 69 degrees tca. **Minor Interval** 15.42 15.98 **10f Mafic dykes** Fine-grained dark gray to greenish-black, locally weakly magnetic, homogeneous, finely foliated mafic rock that consists of amphibole/pyroxene, chlorite, and alteration minerals. This unit is unmineralized. The upper and lower contacts are sharp at 76 and 79 degrees tca, respectively. **Minor Interval** 37.31 37.66 **6d Pyroxenite** Grayish, homogeneous, non-magnetic unit interfingering anorthositic gabbro. The unit is biotized and has undergone talc alteration. This unit contains trace disseminated py-po. The upper and lower contacts are sharp at 71 and near 90 degrees tca, respectively. **Structure** 12.03 12.04 UC Upper Contact sharp **Structure** 41.44 41.45 LC Lower Contact sharp												

Detailed Lithology			Assay Data										
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
41.45	51.80	**10f Mafic dykes** Fine-grained ,dark gray to greenish-black, locally weakly magnetic, homogeneous, finely foliated mafic rock. The main minerals are amphibole/pyroxene, chlorite, and alteration minerals. Patchy quartz-epidote alteration is observed locally. The upper and lower contacts are sharp at 69 and near 90 degrees tca, respectively. Rare disseminated pyrite/pyrrhotite is observed.. **Minor Interval** 47.05 48.52 **4s Sausseritized/Tectonized Anorthosite** Structure 41.45 41.46 UC Upper Contact sharp Structure 42.30 42.31 Sm General Foliation strong Structure 51.79 51.80 LC Lower Contact sharp												

Detailed Lithology			Assay Data										
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
51.80	65.14	**4s Sausseritized/Tectonized Anorthosite** Medium-grained, well-foliated, gray-white-green, non-magnetic, saussuritized anorthosite consisting of varying amounts of plagioclase and mafic minerals. Alteration includes local hematization, ?sericitization; other alteration minerals include biotite, chlorite, epidote? and fuchsite. This unit is intermixed with dm- and cm-scale mafic intrusives which appear as fine-grained, green-gray, non-magnetic, well-foliated, unmineralized intrusions. Cm-scale unmineralized ultramafic schists are also observed. The upper contact is sharp at near 90 degrees tca. The lower contact is sharp at 58 degrees tca. Minor Interval 58.95 59.11 **6d Pyroxenite** Dark grayish, homogeneous, weakly magnetic unit interfingering anorthositic gabbro. The unit is biotized and has undergone talc alteration. The unit contains trace disseminated py-po. The upper and lower contacts are sharp at 70 and 81 degrees tca, respectively. Structure 51.80 51.82 UC Upper Contact sharp Structure 57.90 57.91 Sm General Foliation strong Structure 63.40 63.41 Sm General Foliation strong Structure 65.13 65.14 LC Lower Contact sharp											
65.14	67.89	**10f Mafic dykes** Fine-grained dark gray to greenish-black, locally weakly magnetic, homogeneous, finely foliated mafic rock, containing amphibole/pyroxene, chlorite, and alteration minerals Patchy quartz-epidote alteration is observed locally. The upper and lower contacts are sharp at 58 and near 90 degrees tca, respectively. Rare disseminated pyrite/pyrrhotite is observed. Structure 65.14 65.15 UC Upper Contact sharp Structure 67.88 67.89 LC Lower Contact sharp											

Detailed Lithology			Assay Data										
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
67.89	80.10	**4s Sausseritized/Tectonized Anorthosite** Medium-grained, well-foliated, white-grayish, non-magnetic, saussuritized anorthosite containing varying amounts of plagioclase and mafic minerals. Alteration includes local hematization, ?sericitization; other alteration minerals include biotite and chlorite. This unit is intermixed with dm- and cm-scale mafic intrusives which appear as fine-grained, green-gray, non-magnetic, well-foliated, unmineralized intrusions.Dm- (see minors) and cm-scale ultramafic schists are also observed. From the upper contact to ~75.7 m the unit is very dark gray-greenish (saussuritization?). Beyond 75.7m, the unit has the more typical white-green colour. The upper contact is sharp at near 90 degrees tca. The lower contact is not observable due to broken core., but a highly tectonized anorthositic portion is present at 80.10m. **Minor Interval** 77.07 77.29 **6d Pyroxenite** Dark grayish, homogeneous, weakly magnetic unit interfingering anorthositic gabbro. The unit is biotized and has undergone talc alteration. The unit contains trace disseminated py-po. The upper and lower contacts are sharp at near 90 degrees tca. **Structure** 67.89 67.90 UC Upper Contact sharp **Structure** 68.89 68.90 Sm General Foliation strong **Structure** 69.99 78.00 Sm General Foliation moderate-strong	PG00471	78.93	79.51	0.58	0.03	0.03	0.01	0.01	0.01	0.01	0.01	0.25
			PG00472	79.51	80.41	0.90	0.03	0.03	0.01	0.01	0.01	0.01	0.01	0.25

Detailed Lithology

From	To	Lithology
80.10	83.48	**10f Mafic dykes** Fine-grained greenish to light greenish, locally weakly magnetic, homogeneous, finely foliated mafic (intermediate?) rock, containing amphibole/pyroxene, ?plagioclase, chlorite, and alteration minerals. Foliation varies from near 90 degrees tca to locally 47 degrees tca (folded?). A 17 cm wide mineralized ultramfic intrusive cuts the mafic unit (see minors) at 82.55m. The upper contact is not observed due to broken core. The lower contact is sharp at near 90 degrees tca. Within the unit, rare disseminated po and mm-scale po veinlets are observed. The unit is cut by a 51 cm band of po-pn-ccp massive sulphide (see minor units and mineralization), an 8 cm wide po-pn-ccp stringer (see mineralization), a 6cm wide po-pn-ccp stringer (see mineralization), and a 5cm wide po-pn-ccp stringer (see mineralization). The lower contact is marked by a 9cm wide po-pn-ccp stringer (see mineralization in next major unit). **Minor Interval** 80.41 80.92 **MS MASSIVE SULPHIDE (>75%)** >90-95% massive po-pn-ccp; ~5-10% cm -caie subangular to angular black (ultramafic?) fragments. 70-75% po 10-15% pn 5-10% ccp Pentlandite occurs as mm-scale "eyes" throughout the unit. Ccp occurs as disseminated sulphide and as stringers. Po is pervasive. This style of mineralization is consistent with mineralization found throughout the Stormyra area; the depth of the mineralization is consistent with intersections of remobilized sulfides in the two neighboring sections. The upper and lower contacts are sharp at 54 and 85 degrees tca, respectively.

Assay Data

Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
PG00473	80.41	80.92	0.51	6.86	1.31	0.19	31.00	0.08	0.21	0.01	1.00
PG00474	80.92	81.40	0.48	0.26	0.18	0.01	1.25	0.06	0.01	0.01	0.25
PG00476	81.40	81.70	0.30	2.91	0.54	0.09	16.20	0.10	0.05	0.01	0.25
PG00477	81.70	82.55	0.85	0.09	0.03	0.01	0.42	0.01	0.01	0.01	0.25
PG00478	82.55	82.97	0.42	2.05	0.64	0.05	9.82	1.24	0.46	0.18	0.80
PG00479	82.97	83.48	0.51	0.05	0.05	0.01	0.31	0.01	0.01	0.05	0.25

Detailed Lithology							Assay Data											
From	To	Lithology					Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
		Minor Interval																
		82.55 82.74 **6d Pyroxenite**																
		Dark greenish-gray unit with mm-scale biotite, fragments of mafic intrusive and a po-pn-ccp stringer (see mineralization). The unit is moderately to strongly (where mineralized) magnetic. A cm-scale rounded fragment of anorthositic gabbro is also present near the lower contact.																
		The unit is mineralized throughout (1-3% po-pn?) with a 6cm wide po-pn-ccp stringer near the lower contact (see mineralization).																
		The upper and lower contacts are sharp at near 90 degrees tca.																
		Mineralization	81.45	81.52	10.0%	Pn Pentlandite BB Blebby pn "eyes"												
		Mineralization	81.45	81.52	90.0%	Po Pyrrhotite M Massive stringer												
		Mineralization	81.58	81.65	10.0%	Pn Pentlandite BB Blebby in po stringer; pn "eyes"												
		Mineralization	81.58	81.65	90.0%	Po Pyrrhotite STR Stringers												
		Mineralization	82.85	82.93	5.0%	Cpy Chalcopyrite D Disseminated disseminated in po stringer												
		Mineralization	82.85	82.93	10.0%	Pn Pentlandite BB Blebby "eyes" in po stringer												
		Mineralization	82.85	82.93	85.0%	Po Pyrrhotite STR Stringers												
		Mineralization	82.93	82.97	2.0%	Cpy Chalcopyrite F Fracture-Controlled in proximity to stringer; parallel to foliation												
		Structure	83.47	83.48	LC Lower Contact sharp													

Detailed Lithology

From	To	Lithology
83.48	98.25	**4s Sausseritized/Tectonized Anorthosite** Medium-grained, well-foliated, gray-white-green, non-magnetic, saussuritized anorthosite consisting of varying amounts of plagioclase and mafic minerals. Alteration includes local ?sericitization; other alteration minerals include chlorite. Locally, foliation is variable from near 90 degrees tca to near parallel tca, possibly indicating folding? This unit is cut by a dm-scale greenish, foliated mafic intrusive with mineralized upper and lower contacts (see mineralization and minor units for detail). 3 additional cm-scale po-pn stringers are observed (see mineralization) possibly associated with ultramafic dyklets. The upper contact is sharp at near 90 degrees tca. The lower contact is sharp at 88 degrees tca. **Minor Interval** 84.16 84.24 **10f Mafic dykes** **Mineralization** 83.48 83.58 5.0% Pn Pentlandite BB Blebby <mm scale flecks **Mineralization** 83.48 83.58 95.0% Po Pyrrhotite STR Stringers **Mineralization** 84.12 84.16 45.0% Po Pyrrhotite STR Stringers **Mineralization** 84.23 84.28 25.0% Po Pyrrhotite STR Stringers **Mineralization** 84.37 84.38 85.0% Po Pyrrhotite STR Stringers **Mineralization** 84.86 84.96 5.0% Pn Pentlandite disseminated in po stringer **Mineralization** 84.86 84.96 45.0% Po Pyrrhotite D Disseminated py? **Mineralization** 86.96 86.99 10.0% Po Pyrrhotite STR Stringers pn? py? **Structure** 83.48 83.49 UC Upper Contact sharp; mineralized

Assay Data

Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
PG00480	83.48	84.48	1.00	0.83	0.42	0.07	5.82	0.01	0.02	0.03	0.25
PG00481	84.48	84.98	0.50	0.73	0.13	0.07	5.07	0.01	0.01	0.01	0.25
PG00482	84.98	85.48	0.50	0.06	0.03	0.01	0.24	0.01	0.01	0.01	0.25
PG00483	85.48	86.58	1.10	0.08	0.05	0.01	0.15	0.01	0.01	0.01	0.25
PG00484	86.58	87.08	0.50	0.17	0.06	0.01	0.99	0.01	0.01	0.01	0.25
PG00485	87.08	87.98	0.90	0.03	0.03	0.01	0.12	0.01	0.01	0.01	0.25
PG00486	87.98	88.88	0.90	0.03	0.03	0.01	0.03	0.01	0.01	0.01	0.25

Detailed Lithology					Assay Data										
From	To	Lithology			Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
		Structure	88.00	88.01	Sm General Foliation strong										
		Structure	98.24	98.25	LC Lower Contact sharp										
98.25	102.00	**10f Mafic dykes**													
		Fine-grained, dark gray to greenish-black, locally weakly magnetic, homogeneous, strongly foliated mafic rock, containing amphibole/pyroxene, plagioclase, chlorite, and alteration minerals.													
		Patchy quartz-epidote alteration is observed locally.													
		Cm-scale unmineralized ultramafic intrusives cut the unit. Dm-scale anorthositic gabbro ?"rafts" are also found in the unit.													
		The upper contact is sharp at 88 degrees tca. The lower contact is not observed due to broken core.													
		Rare disseminated pyrite/pyrrhotite, mm-scale pyrite cubes and pyrite veinlets (fracture controlled) are observed.													
		Structure	98.25	98.26	UC Upper Contact sharp										
		Structure	101.49	101.50	Sm General Foliation strong										

Detailed Lithology			Assay Data									
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
102.00	112.31	**4s Sausseritized/Tectonized Anorthosite** This unit consists of a medium-grained, well-foliated, white-green, non-magnetic, saussuritized anorthosite containing varying amounts of plagioclase and mafic minerals. Alteration includes local ?sericitization; other alteration minerals include chlorite and epidote?. This unit is cut by numersou cm- and dm- (see minors) scale mafic intrusives which are fine grained, green-gray, non-magnetic, well foliated, unmineralized to trace mineralized (pyrite) intrusions (dykes/sills). The upper contact is is not observed due to broken core. The lower contact is sharp at 71 degrees tca. **Minor Interval** 107.34 108.06 **10f Mafic dykes** Fine-grained dark gray to greenish-black, locally weakly magnetic, homogeneous, strongly foliated mafic rock. The main minerals are amphibole/pyroxene, plagioclase, chlorite, and alteration minerals. Grain size fines at contacts, possibly indicating chilled margins? Patchy quartz-epidote alteration is observed locally. Theupper contact is sharp at near 90 degrees tca. Thelower contact is sharp at near 90 degrees tca. Rare disseminated pyrite and mm-scale pyrite cubes are observed. **Minor Interval** 109.22 110.09 **10f Mafic dykes** This unit consists of a fine-grained dark gray to greenish-black, locally weakly magnetic, homogeneous, strongly foliated mafic rock; it contains amphibole/pyroxene, plagioclase, chlorite, and alteration minerals. Patchy quartz-epidote alteration is observed locally. The upper contact is sharp at 59 degrees tca. The lower contact is sharp at 74 degrees tca. Rare disseminated pyrite and mm-scale pyrite cubes are observed. **Structure** 112.30 112.31 LC Lower Contact sharp											

Detailed Lithology			Assay Data										
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
112.31	115.42	**10f Mafic dykes** Fine-grained dark gray to greenish-black, locally weakly magnetic, homogeneous, strongly foliated mafic rock that contains abundant amphibole/pyroxene, plagioclase, chlorite, and alteration minerals. Dm-scale anorthositic gabbro"rafts"? occur within the unit. Patchy quartz-epidote alteration is observed locally. The upper contact is sharp at 71 degrees tca. The lower contact is sharp at 84 degrees tca. Rare disseminated pyrite and mm-scale pyrite cubes are observed. **Structure** 112.31 112.32 UC Upper Contact sharp **Structure** 115.00 115.01 Sm General Foliation strong **Structure** 115.41 115.42 LC Lower Contact sharp												

Detailed Lithology			Assay Data									
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
115.42	143.75	**4s Sausseritized/Tectonized Anorthosite** This unit consists of a medium-grained, well-foliated, white-green, non-magnetic, saussuritized anorthosite containing of varying amounts of plagioclase and mafic minerals. Alteration includes local ?sericitization; other alteration minerals include chlorite and epidote?. This unit is cut by cm- and dm-scale (see minor units for description) mafic intrusives which occur as fine grained, green-gray, non-magnetic, well foliated, unmineralized to trace mineralized (pyrite) intrusions (dykes/sills). The unit is unmineralized to trace mineralized (py, at 129.94m) dm- and cm-scale ultramafic intrusives cut the unit. The upper and lower contacts are sharp at 84 and 90 degrees tca, respectively. **Minor Interval** 119.10 119.29 **10f Mafic dykes** **Minor Interval** 122.92 123.11 **10f Mafic dykes** **Minor Interval** 123.67 123.83 **6e Ultramafic Schist** Weakly magnetic, fine-grained, altered (talc) ultramafic schist. The unit contains trace pyrite (or po?) mineralization. The upper and lower contacts are sharp at 60 and near 90 degrees tca, respectively. **Minor Interval** 137.53 137.83 **10f Mafic dykes** Structure 115.42 115.43 UC Upper Contact sharp Structure 117.00 117.01 Sm General Foliation strong Structure 129.00 129.01 Sm General Foliation strong Structure 143.74 143.75 LC Lower Contact sharp											

Detailed Lithology			Assay Data										
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
143.75	147.10	**6b Peridotite** A black to locally grayish black, homogeneous, fine grained, weakly to locally moderately magnetic peridotite (locally schistose near the contacts) compose this unit. Alteration is dominated by talc/serpentinite. The upper and lower contacts are sharp at near 90 degrees tca. The unit has very local trace disseminated po and mm-scale pyrite "cubes" but is for the most part unmineralized. **Alteration** 143.75 147.10 TL Talc F Fracture-Controlled M Moderate **Structure** 143.75 143.76 UC Upper Contact sharp **Structure** 147.09 147.10 LC Lower Contact sharp											
147.10	151.34	**10f Mafic dykes** This unit consists of a fine-grained dark gray to greenish-black, locally weakly magnetic, homogeneous, strongly foliated mafic rock. It contains abundant amphibole/pyroxene, plagioclase, chlorite, and alteration minerals. Dm-scale anorthositic gabbro "rafts"? occur in the unit. Patchy quartz-epidote alteration is observed locally. The upper contact is sharp at near 90 degrees tca. The lower contact is sharp at 84 degrees tca. Rare disseminated pyrite and mm-scale pyrite cubes are observed. **Structure** 147.10 147.11 UC Upper Contact sharp **Structure** 151.33 151.34 LC Lower Contact sharp											

Detailed Lithology

From	To	Lithology
151.34	174.30	**4s Sausseritized/Tectonized Anorthosite** This unit consists of a medium-grained, well-foliated, white-green, non-magnetic, saussuritized anorthosite, which contains varying amounts of plagioclase and mafic minerals. Alteration includes local ?sericitization; other alteration minerals include chlorite and epidote?. This unit is cut by numerous cm-scale mafic intrusives which occur as fine grained, green-gray, non-magnetic, well foliated, unmineralized to trace mineralized (pyrite) dykelets. Mineralized cm- and dm-scale schistose ultramafic dykes occur between 166.75m and 168.50m (see minor units for description of dm-scale units and minerlization for description of cm-scale intersections). Mineralization consists of 1-3% disseminated po and stringers of po. The upper contact is sharp at 84 degrees tca. The lower contact is sharp at 89 degrees tca. **Minor Interval** 167.00 167.79 **6e Ultramafic Schist** Schistose, moderately magnetic, weakly mineralized ultramafic dyke. Talc alteration is observed. Dm-scale anorthositic "raft"? is contained within the unit. Mineralization consists of 1-3% po (stringers and disseminated). The upper and lower contacts are sharp at near 90 degreess and 89 degrees tca, respectively. **Minor Interval** 168.21 168.49 **6e Ultramafic Schist** Schistose, moderately magnetic, weakly mineralized ultramafic dyke. Talc alteration is observed. Dm-scale anorthositic "raft"? is contained within the unit. Mineralization consists of 0.5-1% po (stringers and disseminated). The upper and lower contacts are sharp at 89 degreess and near 90 degrees tca, respectively.

Assay Data

Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
PG00487	165.24	166.24	1.00	0.03	0.03	0.01	0.05	0.03	0.02	0.01	0.25
PG00488	166.24	167.00	0.76	0.03	0.03	0.01	0.56	0.08	0.04	0.01	0.25
PG00489	167.00	167.79	0.79	0.03	0.03	0.01	1.01	0.01	0.01	0.01	0.25
PG00490	167.79	168.21	0.42	0.03	0.03	0.01	0.66	0.01	0.01	0.01	0.25
PG00491	168.21	168.49	0.28	0.03	0.03	0.01	0.85	0.01	0.01	0.01	0.25
PG00492	168.49	169.49	1.00	0.03	0.03	0.01	0.09	0.01	0.01	0.01	0.25

Detailed Lithology			Assay Data										
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
		Minor Interval												
169.01	169.32	**10f Mafic dykes** Fine-grained dark gray to greenish-black, locally weakly magnetic, homogeneous, finely foliated mafic rock that contains abundant amphibole/pyroxene, chlorite, and alteration minerals. Patchy quartz-epidote alteration is observed locally. The upper and lower contacts are sharp at 89 and near 90 degrees tca, respectively.											
		Minor Interval												
170.58	170.95	**10f Mafic dykes** Fine-grained dark gray to greenish-black, locally weakly magnetic, homogeneous, finely foliated mafic rock, with abundant of amphibole/pyroxene, chlorite, and alteration minerals. Patchy quartz-epidote alteration is observed locally. The upper and lower contacts are sharp near 90 degrees tca.											
Mineralization	166.77	166.87	2.0% Po Pyrrhotite D Disseminated hosted in 6e dykelet; some po stringers											
Mineralization	167.05	167.09	3.0% Po Pyrrhotite STR Stringers hosted in 6e dykelet											
Mineralization	167.18	167.28	0.5% Po Pyrrhotite D Disseminated hosted in 6e dykelet											
Mineralization	167.91	167.95	5.0% Po Pyrrhotite STR Stringers hosted in 6e dykelet											
Mineralization	172.10	172.19	1.0% Po Pyrrhotite D Disseminated hosted in 6e dykelet											
Structure	151.34	151.35	UC Upper Contact sharp											
Structure	174.29	174.30	LC Lower Contact sharp											

Detailed Lithology			Assay Data										
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
174.30	185.18	**10f Mafic dykes** This unit consists of a fine-grained dark gray to greenish-black, locally weakly magnetic, homogeneous, finely foliated mafic rock with abundant amphibole/pyroxene, chlorite, and alteration minerals Patchy quartz-epidote alteration is observed locally. The upper and lower contacts are sharp at near 90 degrees tca. Rare disseminated pyrite/pyrrhotite is observed. **Structure** 174.30 174.31 UC Upper Contact sharp **Structure** 185.09 185.10 LC Lower Contact sharp											
185.18	189.67	**4s Sausseritized/Tectonized Anorthosite** Medium-grained, well-foliated, white-green, non-magnetic, saussuritized anorthosite with varying amounts of plagioclase and mafic minerals. Alteration includes local ?sericitization; other alteration minerals include chlorite and epidote?. The foliation intensifies towards the lower contact. This unit is cut by cm-scale mafic intrusives which occur as fine grained, green-gray, non-magnetic, well-foliated, unmineralized to trace mineralized (pyrite) dykelets. Acm-scale mineralized, schistose ultramafic dykelet occurs from 186.26 - 186.34 m. Mineralization consists of 1% po (disseminated and stringers). The upper and lower contacts are sharp at near 90 degrees tca. **Mineralization** 186.26 186.34 1.0% Po Pyrrhotite D Disseminated some stringers; hosted in 6e dykelet **Structure** 185.18 185.19 UC Upper Contact sharp **Structure** 189.66 189.67 LC Lower Contact sharp	PG00447	185.65	186.15	0.50	0.03	0.03	0.01	0.14	0.01	0.01	0.01	0.25
			PG00448	186.15	186.45	0.30	0.03	0.03	0.03	0.69	0.01	0.01	0.02	0.25
			PG00449	186.45	187.05	0.60	0.03	0.03	0.01	0.10	0.01	0.01	0.01	0.25

Detailed Lithology			Assay Data									
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
189.67	271.20	**10d Volcaniclastics** Overall fine to medium-grained (locally very fine-grained and locally coarser), well-foliated, lineated, green to gray, non- to weakly magnetic (where magnetite is present) mafic to intermediate metavolcanic sequence with an altered (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). Variable grain size may indicate alternation between flows and volcaniclastics. Some coarser bands may represent near surface intrusive bodies. Rare occurences of disseminated py(po?). Interpretation: Mafic to intermediate metavolcanics, metavolcaniclastics, tuffs?; Late Proterozoic sequence outside of anorthositic Espedalen Complex.											

Espedalen - Analysis

Hole Number: ES2006-52

Sample Number	From	To	Sample Length (m)	Ni%	Cu%	Co%	S%	Au g/t	Pt g/t	Pd g/t	Ag g/t	Pb%	Zn%	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI%	SUM %
PG00471	78.93	79.51	0.58	0.03	0.030.01		0.010.01		0.01	0.01	0.25																
PG00472	79.51	80.41	0.90	0.03	0.030.01		0.010.01		0.01	0.01	0.25																
PG00473	80.41	80.92	0.51	6.86	1.310.19		31.00	0.01	0.08	0.21	1.00																
PG00474	80.92	81.40	0.48	0.26	0.180.01		1.250.01		0.06	0.01	0.25																
PG00476	81.40	81.70	0.30	2.91	0.540.09		16.20	0.01	0.10	0.05	0.25																
PG00477	81.70	82.55	0.85	0.09	0.030.01		0.420.01		0.01	0.01	0.25																
PG00478	82.55	82.97	0.42	2.05	0.640.05		9.820.18		1.24	0.46	0.80																
PG00479	82.97	83.48	0.51	0.05	0.050.01		0.310.05		0.01	0.01	0.25																
PG00480	83.48	84.48	1.00	0.83	0.420.07		5.820.03		0.01	0.02	0.25																
PG00481	84.48	84.98	0.50	0.73	0.130.07		5.070.01		0.01	0.01	0.25																
PG00482	84.98	85.48	0.50	0.06	0.030.01		0.240.01		0.01	0.01	0.25																
PG00483	85.48	86.58	1.10	0.08	0.050.01		0.150.01		0.01	0.01	0.25																
PG00484	86.58	87.08	0.50	0.17	0.060.01		0.990.01		0.01	0.01	0.25																
PG00485	87.08	87.98	0.90	0.03	0.030.01		0.120.01		0.01	0.01	0.25																
PG00486	87.98	88.88	0.90	0.03	0.030.01		0.030.01		0.01	0.01	0.25																
PG00487	165.24	166.24	1.00	0.03	0.030.01		0.050.01		0.03	0.02	0.25																
PG00488	166.24	167.00	0.76	0.03	0.030.01		0.560.01		0.08	0.04	0.25																
PG00489	167.00	167.79	0.79	0.03	0.030.01		1.010.01		0.01	0.01	0.25																
PG00490	167.79	168.21	0.42	0.03	0.030.01		0.660.01		0.01	0.01	0.25																
PG00491	168.21	168.49	0.28	0.03	0.030.01		0.850.01		0.01	0.01	0.25																
PG00492	168.49	169.49	1.00	0.03	0.030.01		0.090.01		0.01	0.01	0.25																
PG00447	185.65	186.15	0.50	0.03	0.030.01		0.140.01		0.01	0.01	0.25																
PG00448	186.15	186.45	0.30	0.03	0.030.03		0.690.02		0.01	0.01	0.25																
PG00449	186.45	187.05	0.60	0.03	0.030.01		0.100.01		0.01	0.01	0.25																

Espedalen - Conductivity	Hole Number: ES2006-52

Depth	Conductivity (Siemens)	COMMENTS
80.60		2830 on uncut core
80.88		3748 on uncut core
81.52		2055 on uncut core
82.68		599 on uncut core
83.51		360 on uncut core

Espedalen - Magnetic Susceptibility	Hole Number: ES2006-52

DEPTH	MAGNETIC SUSCEPTIBILITY (X 10^{-3} SI)	COMMENTS
10.00	0.34	
11.00	0.32	
12.00	0.50	
13.00	0.08	
14.00	0.10	
15.00	0.17	
16.00	0.07	
17.00	0.09	
18.00	0.08	
19.00	0.11	
20.00	0.04	
21.00	0.03	
22.00	0.01	
23.00	0.04	
24.00	0.24	
25.00	0.03	
26.00	0.08	
27.00	0.05	
28.00	0.05	
29.00	0.03	
30.00	0.03	
31.00	0.04	
32.00	0.02	
33.00	0.02	
34.00	0.03	
35.00	0.05	
36.00	0.03	
37.00	0.03	
38.00	0.03	
39.00	0.05	
40.00	0.67	
41.00	0.54	
42.00	0.37	
43.00	0.47	
44.00	0.37	
45.00	0.54	
46.00	0.17	
47.00	0.43	

Espedalen - Magnetic Susceptibility		Hole Number: ES2006-52
48.00	0.17	
49.00	0.43	
50.00	0.44	
51.00	0.42	
52.00	0.09	
53.00	0.18	
54.00	0.15	
55.00	0.16	
56.00	0.14	
57.00	0.16	
58.00	0.32	
59.00	0.11	
60.00	0.28	
61.00	0.17	
62.00	0.36	
63.00	0.17	
64.00	0.36	
65.00	0.17	
66.00	0.18	
67.00	0.39	
68.00	0.12	
69.00	0.16	
70.00	0.18	
71.00	0.14	
72.00	0.12	
73.00	0.08	
74.00	0.10	
75.00	0.18	
76.00	0.13	–
77.00	0.03	
78.00	0.03	
79.00	0.12	
80.00	0.16	
81.00	0.44	
82.00	0.43	
83.00	0.64	
84.00	0.31	
85.00	0.22	
86.00	0.11	
87.00	0.32	
88.00	0.16	

Espedalen - Magnetic Susceptibility		Hole Number: ES2006-52
89.00	0.17	
90.00	0.13	
91.00	0.06	
92.00	0.09	
93.00	0.05	
94.00	0.01	
95.00	0.02	
96.00	0.03	
97.00	0.05	
98.00	0.15	
99.00	0.47	
100.00	0.42	
101.00	0.04	
102.00	0.37	
103.00	0.05	
104.00	0.01	
105.00	0.03	
106.00	0.06	
107.00	0.01	
108.00	0.23	
109.00	0.03	
110.00	0.24	
111.00	0.09	
112.00	0.04	
113.00	0.42	
114.00	0.62	
115.00	0.34	
116.00	0.14	
117.00	0.07	
118.00	0.06	
119.00	0.09	
120.00	0.11	
121.00	0.05	
122.00	0.03	
123.00	0.02	
124.00	0.03	
125.00	0.02	
126.00	0.09	
127.00	0.05	
128.00	0.03	
129.00	0.04	

Espedalen - Magnetic Susceptibility	Hole Number: ES2006-52

130.00	0.01	
131.00	0.01	
132.00	0.04	
133.00	0.01	
134.00	0.02	
135.00	0.03	
136.00	0.13	
137.00	0.10	
138.00	0.02	
139.00	0.01	
140.00	0.01	
141.00	0.03	
142.00	0.03	
143.00	0.03	
144.00	0.29	
145.00	0.16	
146.00	0.75	
147.00	0.28	
148.00	0.44	
149.00	0.59	
150.00	0.33	
151.00	0.42	
152.00	0.14	
153.00	0.13	
154.00	0.11	
155.00	0.06	
156.00	0.12	
157.00	0.08	
158.00	0.27	–
159.00	0.27	
160.00	0.14	
161.00	0.15	
162.00	0.08	
163.00	0.07	
164.00	0.06	
165.00	0.09	
166.00	0.11	
167.00	0.59	
168.00	0.32	
169.00	0.39	
170.00	0.19	

Espedalen - Magnetic Susceptibility	Hole Number: ES2006-52

171.00	0.17	
172.00	0.11	
173.00	0.21	
174.00	0.18	
175.00	0.44	
176.00	0.59	
177.00	0.41	
178.00	0.53	
179.00	0.50	
180.00	0.31	
181.00	0.36	
182.00	0.22	
183.00	0.56	
184.00	0.66	
185.00	0.94	
186.00	0.17	
187.00	0.40	
188.00	0.06	
189.00	0.02	
190.00	0.39	
191.00	0.58	
192.00	0.43	
193.00	0.57	
194.00	0.48	
195.00	0.62	
196.00	0.49	
197.00	0.34	
198.00	0.24	
199.00	0.20	–
200.00	0.35	
201.00	0.42	
202.00	0.33	
203.00	0.36	
204.00	0.19	
205.00	0.09	
206.00	0.33	
207.00	0.59	
208.00	0.34	
209.00	0.08	
210.00	0.23	
211.00	0.26	

Espedalen - Magnetic Susceptibility	Hole Number: ES2006-52

212.00	0.09	
213.00	0.08	
214.00	0.06	
215.00	0.18	
216.00	0.11	
217.00	0.21	
218.00	0.29	
219.00	0.13	
220.00	0.22	
221.00	0.28	
222.00	0.39	
223.00	0.06	
224.00	0.41	
225.00	0.23	
226.00	0.10	
227.00	0.08	
228.00	0.29	
229.00	0.32	
230.00	0.11	
231.00	0.45	
232.00	0.57	
233.00	0.48	
234.00	0.78	
235.00	0.37	
236.00	0.75	
237.00	0.66	
238.00	0.42	
239.00	0.20	
240.00	0.21	–
241.00	0.31	
242.00	0.15	
243.00	0.04	
244.00	0.23	
245.00	0.46	
246.00	0.01	
247.00	1.79	
248.00	0.28	
249.00	0.43	
250.00	0.23	
251.00	0.54	
252.00	0.11	

Espedalen - Magnetic Susceptibility		Hole Number: ES2006-52
253.00	0.19	
254.00	0.75	
255.00	0.16	
256.00	0.02	
257.00	0.26	
258.00	0.19	
259.00	0.05	
260.00	0.08	
261.00	0.04	
262.00	0.01	
263.00	0.26	
264.00	0.26	
265.00	0.04	
266.00	0.15	
267.00	0.02	
268.00	0.06	
269.00	0.01	
270.00	0.25	
271.00	0.14	

Espedalen - Rock Quality (RQD)

Hole Number: ES2006-52

FROM	TO	PERCENT QUALITY	PERCENT CORE	DISKING	COMMENTS
0.00	9.95	100	100	N	CASING
9.95	13.00	50	100	N	
13.00	15.00	69	100	N	
15.00	18.00	56	100	N	
18.00	21.00	60	100	N	
21.00	24.00	84	100	N	
24.00	27.00	87	100	N	
27.00	30.00	65	100	N	
30.00	33.00	61	100	N	
33.00	36.00	69	100	N	
36.00	39.00	70	100	N	
39.00	42.00	87	100	N	
42.00	45.00	97	100	N	
45.00	48.00	84	100	N	
48.00	51.00	64	100	N	
51.00	54.00	72	100	N	
54.00	57.00	82	100	N	
57.00	60.00	79	100	N	
60.00	63.00	84	100	N	
63.00	66.00	75	100	N	
66.00	69.00	97	100	N	
69.00	72.00	97	100	N	
72.00	75.00	96	100	N	
75.00	78.00	94	100	N	
78.00	81.00	72	100	N	
81.00	84.00	76	100	N	
84.00	87.00	59	100	N	
87.00	90.00	89	100	N	
90.00	93.00	79	100	N	
93.00	96.00	76	100	N	
96.00	99.00	67	100	N	
99.00	102.00	61	100	N	
102.00	105.00	70	100	N	
105.00	108.00	82	100	N	
108.00	111.00	80	100	N	
111.00	114.00	96	100	N	
114.00	117.00	75	100	N	
117.00	120.00	69	100	N	
120.00	123.00	79	100	N	
123.00	126.00	80	100	N	
126.00	129.00	87	100	N	
129.00	132.00	97	100	N	

Espedalen - Rock Quality (RQD)

Hole Number: ES2006-52

132.00	135.00	98	100	N	
135.00	138.00	95	100	N	
138.00	141.00	74	100	N	
141.00	144.00	71	100	N	
144.00	147.00	65	100	N	
147.00	150.00	80	100	N	
150.00	153.00	97	100	N	
153.00	156.00	93	100	N	
156.00	159.00	98	100	N	
159.00	162.00	96	100	N	
162.00	165.00	98	100	N	
165.00	168.00	96	100	N	
168.00	171.00	98	100	N	
171.00	174.00	99	100	N	
174.00	177.00	97	100	N	
177.00	180.00	96	100	N	
180.00	183.00	93	100	N	
183.00	186.00	95	100	N	
186.00	189.00	95	100	N	
189.00	192.00	96	100	N	
192.00	195.00	96	100	N	
195.00	198.00	99	100	N	
198.00	201.00	97	100	N	
201.00	204.00	100	100	N	
204.00	207.00	99	100	N	
207.00	210.00	96	100	N	
210.00	213.00	97	100	N	
213.00	216.00	99	100	N	
216.00	219.00	96	100	N	
219.00	223.00	97	100	N	
223.00	226.00	100	100	N	
226.00	229.00	98	100	N	
229.00	232.00	100	100	N	
232.00	235.00	90	100	N	
235.00	238.00	95	100	N	
238.00	241.00	94	100	N	
241.00	244.00	98	100	N	
244.00	247.00	91	100	N	
247.00	250.00	84	100	N	
250.00	253.00	82	100	N	
253.00	256.00	69	100	N	
256.00	259.00	66	100	N	
259.00	262.00	70	100	N	
262.00	265.00	64	100	N	

Espedalen - Rock Quality (RQD)					Hole Number: ES2006-52
265.00	271.20	54	100	N	

Detailed Log

Hole Number: **ES2006-53** Units: METRIC

Project Name:	Espedalen	Collar Survey:	N	Plugged	N			Core Storage:	Strand Fjellstue
Project Number:	300	Mulitshot Survey:	N	Hole Size:	TT46			Contractor:	Arctic Drilling A/S
		Pulse EM Survey:	N						
Date Started:	3/15/2006	Casing:	Left in Hole, capped					Logged by:	larsw
Date Completed:	3/21/2006	Location:	Surface						

UTM WGS 84 Coord		Local Coord	
UTM Northing:	6,801,283.90	Local Northing:	3280.00
UTM Easting:	535,501.10	Local Easting:	1650.00
Elevation:	945.68		

Collar Dip:	-70.00	
Collar Azimuth:	230.00	
Length:	274.39	

Comments

Purpose: to test the downdip potential of known mineralization in the Stormyra area at a depth below the UTEM detection limit.

Summary: This hole intersected a sequence of variably altered and sheared anorthosite that is cut by numberous mafic and a small number of ultramafic dikes. No significant mineralization was intersected in this hole.

Detailed Lithology

From	To		Lithology
0.00	11.00	C	**Casing**

Assay Data

Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t

Detailed Lithology			Assay Data										
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
11.00	71.21	**4s Sausseritized/Tectonized Anorthosite** This unit consists of a light gray to greenish-gray, non-magnetic, fine- to medium-grained saussuritized anorthosite. It consists of ~50% plagiclase and 50% mafic and alteration minerals (mainly chlorite and epidote). The unit is homogeneous on a meter-scale; the rock is commonly well-foliated. This unit is host to numerous dm- and m-scale mafic dikes/sills. The lower contact is sharp but irregular and slightly brecciated. Quartz-epidote and hematite alteration is common where the rock is recrystallized (i.e. in immediate contact to the lower unit) and the foliation has been destroyed. This unit is not mineralized. **Minor Interval** 17.38 19.23 **10f Mafic dykes** Gray to greenish-gray, homogeneous, non-magnetic, moderately to well-foliated mafic rock. The rock is fine grained and contains abundant plagioclase as well as mafic and alteration minerals. The upper and lower contacts are sharp at 80 and 90 degrees tca, respectively. This unit is not mineralized. **Minor Interval** 26.89 30.44 **10f Mafic dykes** Gray to greenish-gray, homogeneous, non-magnetic, moderately to well-foliated mafic rock. The rock is fine grained and contains abundant plagioclase as well as mafic and alteration minerals. The upper contact is sharp but irregular, the lower contact is sharp at 70 degrees tca. This unit is not mineralized. **Minor Interval** 38.97 44.11 **10f Mafic dykes** Gray to greenish-gray, fine- to medium-grained, non-magnetic, moderately well-foliated mafic rock. Locally, the unit contains white feldspar "smears". The rock contains about 50% plagioclase, the remainder is composed of mafic and alteration minerals. The upper contact is sharp at 70 degrees tca, the lower contact is digested over about 10cm. Along both contacts the wallrock is somewhat banded. A 1mm (!) po vein occurs at 42.28m. The remainder of the unit is not mineralized.												

Detailed Lithology			Assay Data										
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
Minor Interval														
45.25	46.47	**10f Mafic dykes** Gray to greenish-gray, homogeneous, non-magnetic, moderately to well-foliated mafic rock. The rock is fine grained and contains abundant plagioclase as well as mafic and alteration minerals. The upper contact is sharp at 80- degrees tca, the lower contact is sharp but irregular. This unit is not mineralized.											
Minor Interval														
51.58	52.43	**10f Mafic dykes** Gray to greenish-gray, homogeneous, non-magnetic, moderately to well-foliated mafic rock. The rock is fine grained and contains abundant plagioclase as well as mafic and alteration minerals. The upper contact is sharp at 60 degrees tca, the lower contact is sharp but irregular. This unit is not mineralized.											
Minor Interval														
63.07	63.45	**10f Mafic dykes** Gray to greenish-gray, homogeneous, non-magnetic, moderately to well-foliated mafic rock. The rock is fine grained and contains abundant plagioclase as well as mafic and alteration minerals. The upper and lower contacts are sharp at 80 degrees tca. This unit is not mineralized.											
Alteration	52.43	71.21	EP	Epidote										
			P	Pervasive										
			M	Moderate										
Alteration	52.43	71.21	Q	Quartz										
			P	Pervasive										
			M	Moderate										
Alteration	68.23	69.25	HM	Hematite										
			P	Pervasive										
			M	Moderate										
Structure	13.76	13.77	S1	1st Foliation										
Structure	22.50	22.51	S1	1st Foliation										
Structure	28.50	28.51	S1	1st Foliation										
Structure	34.11	34.12	S1	1st Foliation										
Structure	41.36	41.37	S1	1st Foliation										
Structure	47.19	47.20	S1	1st Foliation										

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

71.21 90.88 **10f Mafic dykes**

This unit consists of a dark gray to greenish-gray, very homogeneous, well-foliated, non-magnetic rock. It contains about 20% plagioclase as well as mafic and algeration minerals. A "raft" of 4s is located between 83.77 m and 84.32 m.

The lower contact of this unit is sharp but irregular.

Locally, the unit is hematized.

Locally, the unit contains trace sulfide.

Alteration	72.89	73.15	HM	Hematite
			P	Pervasive
			M	Moderate
Structure	71.85	71.86	S1	1st Foliation
Structure	79.18	79.19	S	Shear
Structure	87.90	87.91	S1	1st Foliation

90.88 99.48 **4s Sausseritized/Tectonized Anorthosite**

Massive, homogeneous, non-magnetic, non-mineralized, non-foliated, recrystallized saussuritized anorthosite. The rock is pervasively quartz, epidote, and hematite altered. The lower contact is sharp at 70 degrees tca, but sheared.

Alteration	90.88	99.48	EP	Epidote
			P	Pervasive
			M	Moderate
Alteration	90.88	99.48	Q	Quartz
			P	Pervasive
			M	Moderate
Alteration	90.88	99.48	HM	Hematite
			P	Pervasive
			W	Weak

Detailed Lithology			Assay Data										
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
99.48	117.72	**4s Sausseritized/Tectonized Anorthosite** This medium-grained, greenish-gray and white anorthosite unit is moderately to weil-foliated and non-magnetic. It contains about 50% plagioclase and 50% mafic minerals. The unit is virtually unaltered and thus distincity different from the hanging and footwall units. This unit is not mineralized. **Structure** 100.90 100.91 S1 1st Foliation **Structure** 109.93 109.94 S1 1st Foliation **Structure** 116.29 116.30 S1 1st Foliation												

Detailed Lithology			Assay Data									
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
117.72	171.85	**4s Sausseritized/Tectonized Anorthosite** Massive, homogeneous, non-magnetic, non-mineralized, non-foliated, recrystallized saussuritized anorthosite. The rock is pervasively quartz, epidote, and hematite altered. The lower contact is sharp at 85 degrees tca. The unit contains numerous dm- to m-scale mafic and ultramafic (1) dikes/sills. **Minor Interval** 129.82 131.64 **10f Mafic dykes** Gray to greenish-gray, homogeneous, non-magnetic, well-foliated mafic rock. The rock is fine grained and contains abundant plagioclase as well as mafic and alteration minerals. The upper contact is sharp at 60- degrees tca, the lower contact is digested between 131.49 m and 131.64 m. This unit is not mineralized. **Minor Interval** 140.18 140.81 **6e Ultramafic Schist** Dark gray, well-foliated, non-magnetic rock. Mafic minerals and talc compose the rock. The upper contact is sharp but irregular, the lower contact is digested over about 5 cm. This unit is not mineralized. **Minor Interval** 145.00 146.32 **10f Mafic dykes** Gray to greenish-gray, homogeneous, non-magnetic, well-foliated mafic rock. The rock is fine grained and contains abundant plagioclase as well as mafic and alteration minerals. The upper contact is digested over about 5cm, the lower contact is sharpt at 80 degrees tca. This unit is not mineralized. **Minor Interval** 153.78 155.25 **10f Mafic dykes** Gray to greenish-gray, homogeneous, non-magnetic, well-foliated mafic rock. The rock is fine grained and contains abundant plagioclase as well as mafic and alteration minerals. The upper and lower contacts are sharpt at 80 degrees tca. This unit is not mineralized.											

Detailed Lithology					Assay Data										
From	To	Lithology			Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
		Minor Interval														
159.58	160.00	**10f Mafic dykes** Gray to greenish-gray, homogeneous, non-magnetic, well-foliated mafic rock. The rock is fine grained and contains abundant plagioclase as well as mafic and alteration minerals. The upper contact is sharp at 80 degrees tca, the lower contact is brecciated. This unit is not mineralized.													
		Minor Interval														
164.90	165.64	**10f Mafic dykes** Gray to greenish-gray, homogeneous, non-magnetic, well-foliated mafic rock. The rock is fine grained and contains abundant plagioclase as well as mafic and alteration minerals. Unlike similar units, this rock is garnet-bearing. The garnets are up to about 1mm in diameter. The upper contact is sharpt at 70 degrees tca, the lower contact is digested. This unit is not mineralized.													
		Alteration	117.72	171.85	Q	Quartz									
					P	Pervasive									
					M	Moderate									
		Alteration	117.72	171.85	EP	Epidote									
					P	Pervasive									
					M	Moderate									
		Alteration	117.72	171.85	HM	Hematite									
					P	Pervasive									
					W	Weak									
		Structure	130.36	130.37	S1	1st Foliation									
		Structure	140.51	140.52	S1	1st Foliation									
		Structure	149.20	149.21	S1	1st Foliation									
		Structure	162.63	162.64	S1	1st Foliation									

Detailed Lithology			Assay Data										
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
171.85	177.56	**10f Mafic dykes** This unit consists of a fine-grained, gray-green, well-foliated, non-magnetic, epidote altered, homogeneous mafic rock. It contains about 30% plagioclase, mafic and alteration minerals compose the remainder. The upper and lower contacts are sharp at 85 and 75 degrees tca, respectively. This unit is not mineralized. **Alteration** 171.85 177.56 EP Epidote P Pervasive M Moderate **Structure** 176.23 176.24 S1 1st Foliation											
177.56	190.48	**4s Sausseritized/Tectonized Anorthosite** Massive, homogeneous, non-magnetic, non-mineralized, non-foliated, recrystallized anorthisite. The rock is pervasively quartz, epidote, and hematite altered. **Minor Interval** 182.78 185.35 **6b Peridotite** This unit consists of a black, medium- to coarse-grained, non-foliated, moderately to strongly magnetic ultramafic rock. Pyroxenes are the predominant minerals (ca. 50%), magnetite is common and accounts for about 10%. The remainder consists of other unidentified mafic and alteration minerals. This unit is not mineralized. **Alteration** 177.56 190.48 Q Quartz P Pervasive M Moderate **Alteration** 177.56 190.48 EP Epidote P Pervasive W Weak **Alteration** 177.56 190.48 HM Hematite P Pervasive W Weak											

Detailed Lithology			Assay Data										
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
190.48	202.16	**10f Mafic dykes** This unit consists of a fine-grained, gray-green, well-foliated, non-magnetic, homogeneous mafic rock. It contains about 30% plagioclase; mafic and alteration minerals compose the remainder. Locally, the unit is weakly epidote altered. A 4s "raft" is located at 197.7 - 198.20m. This unit is not mineralized. Structure 191.64 191.65 S1 1st Foliation Structure 199.24 199.25 S1 1st Foliation											
202.16	242.26	**4s Sausseritized/Tectonized Anorthosite** This unit consists of a white to greenish gray, non-magnetic, fine- to medium-grained, on a meter scale homogeneous plagioclase-rich unit. The unit is moderately to well-foliated; the foliation increases towards the footwall contact where the rock is intensively tectonized. Below about 210m the unit is characterized by abundant fuchsite. The lower contact is sharp at 70 degrees tca. Apart from mm-scale remobilized sulfides (po) in the minor unit, this unit is not mineralized. Minor Interval 207.60 207.88 **10f Mafic dykes** Gray to greenish-gray, homogeneous,moderately magnetic (see mineralization below), moderately to well-foliated mafic rock. The rock is fine grained and contains abundant plagioclase as well as mafic and alteration minerals. The upper and lower contacts are sharp at 80 and 90 degrees tca, respectively. This unit conains mm-scale remobilized po veinlets, accounting for the high magnetic susceptibility of this rock. Mineralization 207.60 207.88 1.0% Po Pyrrhotite VN Veined mm-scale remobilized Alteration 212.00 242.26 ALT ALTERATION P Pervasive W Weak weak to moderate fuchsite Structure 213.78 213.79 S1 1st Foliation Structure 223.83 223.84 S1 1st Foliation Structure 236.87 236.88 S1 1st Foliation	PG00493	206.25	207.59	1.34	0.03	0.03	0.01	0.05	0.01	0.01	0.01	0.25
			PG00494	207.59	207.89	0.30	0.03	0.03	0.01	1.01	0.02	0.01	0.01	0.25
			PG00495	207.89	209.31	1.42	0.03	0.03	0.01	0.05	0.06	0.02	0.01	0.25

Detailed Lithology			Assay Data									
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
242.26	248.91	**10f Mafic dykes** This unit consists of a medium-grained, gray-green, strongly-foliated, non-magnetic, homogeneous mafic rock. It contains about 30% plagioclase; mafic and alteration minerals compose the remainder. This unit appears recrystallized (coarser-grained compared to similar units) and is tectonized. The lower contact is fuzzy/digested. This unit is not mineralized. **Structure** 245.75 245.76 S1 1st Foliation											
248.91	257.80	**4s Sausseritized/Tectonized Anorthosite**										
257.80	268.61	**10f Mafic dykes** This unit consists of a medium-grained, gray-green, strongly-foliated, non-magnetic, homogeneous mafic rock. It contains about 30% plagioclase; mafic and alteration minerals compose the remainder. This unit contains about 3m of 4s (see minor unit for details). The lower contact is sharp at 90 degrees tca. This unit is not mineralized. **Minor Interval** 261.79 264.90 **4s Sausseritized/Tectonized Anorthosite** Plagioclase-rich, well-foliated, fine-grained, non-magnetic unit. Locally, minor brecciation occurs. Local qz-epidote alteration; here, the foliation has been destroyed. The upper and lower contacts are sharp at 80 degrees tca. **Structure** 259.85 259.86 S1 1st Foliation											
268.61	274.39	**4s Sausseritized/Tectonized Anorthosite** This unit consists of a strongly foliated and tectonized, white and black, plagioclase-rich, medium-grained, non-magnetic rock. It contains about 50% plagioclase and 50% mafic and alteration minerals. The lower contact of this unit is unknown as the hole was shut down. This unit is not mineralized. **Structure** 271.07 271.08 S1 1st Foliation											

Detailed Lithology			Assay Data										
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
274.39	274.39	**EO End of Hole**												

Espedalen - Analysis

Hole Number: ES2006-53

Sample Number	From	To	Sample Length (m)	Ni%	Cu%	Co%	S%	Au g/t	Pt g/t	Pd g/t	Ag g/t	Pb%	Zn%	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI%	SUM %
PG00493	206.25	207.59	1.34	0.03	0.03	0.01	0.05	0.01	0.01	0.01	0.25																
PG00494	207.59	207.89	0.30	0.03	0.03	0.01	1.01	0.01	0.02	0.01	0.25																
PG00495	207.89	209.31	1.42	0.03	0.03	0.01	0.05	0.01	0.06	0.02	0.25																

Espedalen - Conductivity	Hole Number: ES2006-53

Depth	Conductivity (Siemens)	COMMENTS
207.70	60.00	on uncut core
207.78	110.00	on uncut core

Espedalen - Magnetic Susceptibility		Hole Number: ES2006-53
DEPTH	MAGNETIC SUSCEPTIBILITY (X 10^{-3} SI)	COMMENTS
11.00	0.43	
12.00	0.32	
13.00	0.04	
14.00	0.57	
15.00	0.16	
16.00	0.06	
17.00	0.17	
18.00	0.51	
19.00	0.57	
20.00	0.13	
21.00	0.15	
22.00	0.13	
23.00	0.11	
24.00	0.19	
25.00	0.14	
26.00	0.52	
27.00	0.98	
28.00	0.67	
29.00	0.65	
30.00	0.70	
31.00	0.15	
32.00	0.16	
33.00	0.16	
34.00	0.18	
35.00	0.21	
36.00	0.21	
37.00	0.18	
38.00	0.64	
39.00	0.32	
40.00	0.57	
41.00	0.65	
42.00	0.54	
43.00	0.43	
44.00	0.66	
45.00	0.28	
46.00	0.48	
47.00	0.08	
48.00	0.21	

Espedalen - Magnetic Susceptibility		Hole Number: ES2006-53
49.00	0.16	
50.00	0.30	
51.00	0.16	
52.00	0.40	
53.00	0.12	
54.00	0.05	
55.00	0.06	
56.00	0.13	
57.00	0.14	
58.00	0.10	
59.00	0.13	
60.00	0.11	
61.00	0.02	
62.00	0.04	
63.00	0.15	
64.00	0.15	
65.00	0.02	
66.00	0.05	
67.00	0.06	
68.00	0.06	
69.00	0.09	
70.00	0.13	
71.00	0.11	
72.00	0.52	
73.00	0.47	
74.00	0.47	
75.00	0.45	
76.00	0.48	
77.00	0.52	
78.00	0.53	
79.00	0.52	
80.00	0.51	
81.00	0.49	
82.00	0.43	
83.00	0.45	
84.00	0.05	
85.00	0.54	
86.00	0.50	
87.00	0.40	
88.00	0.54	
89.00	0.63	

Espedalen - Magnetic Susceptibility		Hole Number: ES2006-53
90.00	0.56	
91.00	0.13	
92.00	0.06	
93.00	0.70	
94.00	0.10	
95.00	0.03	
96.00	0.09	
97.00	0.08	
98.00	0.17	
99.00	0.08	
100.00	0.59	
101.00	0.38	
102.00	0.38	
103.00	0.27	
104.00	0.32	
105.00	0.45	
106.00	0.46	
107.00	0.29	
108.00	0.33	
109.00	0.49	
110.00	0.37	
111.00	0.35	
112.00	0.33	
113.00	0.24	
114.00	0.47	
115.00	0.30	
116.00	0.48	
117.00	0.24	
118.00	0.15	–
119.00	0.17	
120.00	0.08	
121.00	0.11	
122.00	0.06	
123.00	0.06	
124.00	0.05	
125.00	0.03	
126.00	0.12	
127.00	0.35	
128.00	0.16	
129.00	0.33	
130.00	0.39	

Espedalen - Magnetic Susceptibility		Hole Number: ES2006-53
131.00	0.61	
132.00	0.13	
133.00	0.09	
134.00	0.13	
135.00	0.04	
136.00	0.06	
137.00	0.05	
138.00	0.02	
139.00	0.02	
140.00	0.05	
141.00	0.05	
142.00	0.11	
143.00	0.07	
144.00	0.06	
145.00	0.45	
146.00	0.50	
147.00	0.15	
148.00	0.23	
149.00	0.06	
150.00	0.10	
151.00	0.08	
152.00	0.21	
153.00	0.05	
154.00	0.40	
155.00	0.44	
156.00	0.12	
157.00	0.04	
158.00	0.11	
159.00	0.36	–
160.00	0.31	
161.00	0.08	
162.00	0.04	
163.00	0.07	
164.00	0.09	
165.00	0.29	
166.00	0.08	
167.00	0.04	
168.00	0.11	
169.00	0.07	
170.00	0.04	
171.00	0.08	

Espedalen - Magnetic Susceptibility		Hole Number: ES2006-53
172.00	0.54	
173.00	0.52	
174.00	0.37	
175.00	0.42	
176.00	0.54	
177.00	0.46	
178.00	0.52	
179.00	0.07	
180.00	0.04	
181.00	0.05	
182.00	0.31	
183.00	1.13	
184.00	20.40	
185.00	1.15	
186.00	0.16	
187.00	0.08	
188.00	0.12	
189.00	0.12	
190.00	0.10	
191.00	0.65	
192.00	0.56	
193.00	0.50	
194.00	0.44	
195.00	0.53	
196.00	0.57	
197.00	0.69	
198.00	0.09	
199.00	0.55	
200.00	0.68	
201.00	0.57	
202.00	0.53	
203.00	0.08	
204.00	0.26	
205.00	0.04	
206.00	0.28	
207.00	0.27	
208.00	0.16	
209.00	0.06	
210.00	0.09	
211.00	0.08	
212.00	0.90	

Espedalen - Magnetic Susceptibility		Hole Number: ES2006-53
213.00	0.18	
214.00	0.17	
215.00	0.05	
216.00	0.11	
217.00	0.12	
218.00	0.12	
219.00	0.09	
220.00	0.07	
221.00	0.13	
222.00	0.19	
223.00	0.05	
224.00	0.73	
225.00	0.06	
226.00	0.32	
227.00	0.44	
228.00	0.53	
229.00	0.53	
230.00	0.52	
231.00	0.34	
232.00	0.50	
233.00	0.14	
234.00	1.02	
235.00	0.06	
236.00	0.47	
237.00	0.12	
238.00	0.22	
239.00	0.13	
240.00	0.09	
241.00	0.16	
242.00	0.42	
243.00	0.36	
244.00	0.43	
245.00	0.27	
246.00	0.45	
247.00	0.44	
248.00	0.64	
249.00	0.39	
250.00	0.43	
251.00	1.24	
252.00	0.38	
253.00	0.37	

Espedalen - Magnetic Susceptibility	Hole Number: ES2006-53

254.00	0.32	
255.00	0.32	
256.00	0.19	
257.00	0.23	
258.00	0.47	
259.00	0.33	
260.00	0.47	
261.00	0.33	
262.00	0.31	
263.00	0.14	
264.00	0.73	
265.00	0.53	
266.00	0.50	
267.00	0.62	
268.00	0.47	
269.00	0.26	
270.00	0.23	
271.00	0.40	
272.00	0.34	
273.00	0.32	
274.00	1.00	

Espedalen - Rock Quality (RQD)

Hole Number: ES2006-53

FROM	TO	PERCENT QUALITY	PERCENT CORE	DISKING	COMMENTS
11.00	14.00	67	100	N	
14.00	17.00	74	100	N	
17.00	20.00	86	100	N	
20.00	23.00	94	100	N	
23.00	26.00	92	100	N	
26.00	29.00	100	100	N	
29.00	32.00	98	100	N	
32.00	35.00	95	100	N	
35.00	38.00	97	100	N	
38.00	41.00	95	100	N	
41.00	44.00	94	100	N	
44.00	47.00	99	100	N	
47.00	50.00	89	100	N	
50.00	53.00	74	100	N	
53.00	56.00	90	100	N	
56.00	59.00	91	100	N	
59.00	62.00	88	100	N	
62.00	65.00	84	100	N	
65.00	68.00	77	100	N	
68.00	71.00	93	100	N	
71.00	74.00	81	100	N	
74.00	77.00	64	100	N	
77.00	80.00	96	100	N	
80.00	83.00	30	100	N	
83.00	86.00	45	100	N	
86.00	89.00	85	100	N	
89.00	92.00	97	100	N	
92.00	95.00	95	100	N	
95.00	98.00	79	100	N	
98.00	101.00	85	100	N	
101.00	104.00	88	100	N	
104.00	107.00	82	100	N	
107.00	110.00	94	100	N	
110.00	113.00	98	100	N	
113.00	116.00	96	100	N	
116.00	119.00	80	100	N	
119.00	122.00	85	100	N	
122.00	125.00	94	100	N	
125.00	128.00	83	100	N	
128.00	131.00	60	100	N	
131.00	134.00	76	100	N	
134.00	137.00	64	100	N	

Espedalen - Rock Quality (RQD)

Hole Number: ES2006-53

137.00	140.00	59	100	N	
140.00	143.00	83	100	N	
143.00	146.00	83	100	N	
146.00	149.00	94	100	N	
149.00	152.00	84	100	N	
152.00	155.00	88	100	N	
155.00	158.00	60	100	N	
158.00	161.00	71	100	N	
161.00	164.00	68	100	N	
164.00	167.00	85	100	N	
167.00	170.00	89	100	N	
170.00	173.00	84	100	N	
173.00	176.00	97	100	N	
176.00	179.00	85	100	N	
179.00	182.00	59	100	N	
182.00	185.00	34	100	N	
185.00	188.00	92	100	N	
188.00	191.00	88	100	N	
191.00	194.00	90	100	N	
194.00	197.00	94	100	N	
197.00	200.00	100	100	N	
200.00	203.00	95	100	N	
203.00	206.00	99	100	N	
206.00	209.00	92	100	N	
209.00	212.00	43	100	N	
212.00	215.00	73	100	N	
215.00	218.00	74	100	N	
218.00	221.00	84	100	N	
221.00	224.00	61	100	N	
224.00	227.00	92	100	N	
227.00	230.00	98	100	N	
230.00	233.00	79	100	N	
233.00	236.00	59	100	N	
236.00	239.00	100	100	N	
239.00	242.00	88	100	N	
242.00	245.00	100	100	N	
245.00	248.00	85	100	N	
248.00	251.00	100	100	N	
251.00	254.00	100	100	N	
254.00	257.00	87	100	N	
257.00	260.00	95	100	N	
260.00	263.00	95	100	N	
263.00	266.00	85	100	N	
266.00	269.00	100	100	N	

Espedalen - Rock Quality (RQD)					Hole Number: ES2006-53
269.00	272.00	98	100	N	
272.00	274.39	97	100	N	

Detailed Log

Hole Number: **ES2006-54** Units: METRIC

Project Name:	Espedalen	Collar Survey:	N	Plugged	N	Core Storage:	Strand Fjellstue
Project Number:	300	Mulitshot Survey:	N	Hole Size:	TT46	Contractor:	Arctic Drilling A/S
Date Started:	3/21/2006	Pulse EM Survey:	N				
Date Completed:	3/28/2006	Casing:	Left in Hole, capped			Logged by:	larsw
		Location:	Surface				

UTM WGS 84 Coord		Local Coord	
UTM Northing:	6,801,340.70	Local Northing:	3130.03
UTM Easting:	535,257.60	Local Easting:	1450.09
Elevation: 953.99			

Collar Dip: -71.00
Collar Azimuth: 230.00
Length: 247.90

Comments Purpose: To test for mineralization downdip of the known mineralization of the main Stormyra zone.

Summary:

Detailed Lithology

From	To	Lithology
0.00	3.93	**C Casing**
3.93	10.88	**4s Sausseritized/Tectonized Anorthosite** This unit consists of a white to greenish-white, homogeneous, non-magnetic, weekly foliated, fine- to medium-grained rock. It contains ca. 70% white plagioclase; chlorite, fuchsite, and other alteration minerals occur in variable amounts. The lower contact of this unit is sharp at 45 degrees tca. This unit is not mineralized.
10.88	13.07	**10f Mafic dykes** This unit consists of a dark gray-green, well-foliated, homogeneous, non-magnetic, fine-grained mafic rock. It contains abundant amphiboles/pyroxenes as well as chlorite, locally minor epidote, and other unidentified alteration minerals. The lower contact of this unit is sharp but intensively tectonized and is hence complex. Apart from trace po along the lower contact, this unit is no mineralized. Structure 11.67 11.68 S1 1st Foliation

Assay Data

Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t

Detailed Lithology			Assay Data									
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
13.07	26.38	**6b Peridotite** This unit consists of a dark gray, homogeneous, non -foliated, coarse-grained ultramafic rock. It contains abundant biotite/phlogopite (after pyroxene) clusters up to about 1cm in diameter. Minor constituents are talc and chlorite. The unit contains an anorthosite "raft" about 15cm in diameter close to the hanging wall contact. This unit is not mineralized.											
26.38	28.22	**10f Mafic dykes** This unit consists of a fine to medium-grained, gray, non-magnetic, usually well-foliated mafic rock. It is homogeneous on a meter scale. The rock contains plagioclase, pyroxenes/amphiboles, chlorite and other unidentified alteration minerals. The lower contact is diffuse/digested. This unit is not mineralized.										

Detailed Lithology			Assay Data										
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
28.22	210.36	**4s Sausseritized/Tectonized Anorthosite** This thick and dominant white to greenish-gray unit contains abundant white plagioclase and variable amounts of chlorite, fuchsite and quartz. The unit is non-magnetic and homogeneous on a meter scale; however, over the whole thickness distinct differences occur. The unit is fine to medium-grained where the rock is well-foliated and medium to coarse-grained where the rock has been recrystallized and the foliation has been destroyed. In the latter areas quartz is abundant. Locally, plagioclase augen develop, giving the rock a gneissic texture. Very local brecciation is marked by large amounts of quartz. Abundant meter-scale mafic and, to a lesser degree, ultramafic dikes/sills cut the unit. See minor units for more detail on those rocks. Between 140m and 145.6m abundant dm-scale 10f dikelets occur. This unit is not mineralized. **Minor Interval** 29.70 32.20 **6b Peridotite** This unit consists of a dark gray, homogeneous, non -foliated, coarse-grained ultramafic rock. It contains abundant biotite/phlogopite (after pyroxene) clusters up to about 1cm in diameter. Minor constituents are talc and chlorite. The upper and lower contacts are sharp at 90 and 80 degrees tca, respectively. This unit is not mineralized. **Minor Interval** 47.52 53.52 **10f Mafic dykes** Gray to greenish-gray, homogeneous, non-magnetic, moderately to well-foliated mafic rock. The rock is fine grained and contains abundant plagioclase as well as mafic and alteration minerals. The upper contact is sharp at 80 degrees tca, the lower contact is tectonized. This unit is not mineralized. **Minor Interval** 107.83 111.23 **10f Mafic dykes** Gray to greenish-gray, homogeneous, non-magnetic, moderately to well-foliated mafic rock. The rock is fine grained and contains abundant plagioclase as well as mafic and alteration minerals. The upper contact is sharp at 80 degrees tca, the lower contact is sharp but irregular. This unit is not mineralized.											

Detailed Lithology			Assay Data										
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
		Minor Interval												
126.14	128.54	**10f Mafic dykes** Gray to greenish-gray, homogeneous, non-magnetic, moderately to well-foliated mafic rock. The rock is fine grained and contains abundant plagioclase as well as mafic and alteration minerals. The upper and lower contacts are sharp at 60 and 90 degrees tca, respectively. The rock is finer-grained along the contacts. This unit is not mineralized.											
		Minor Interval												
130.63	132.90	**10f Mafic dykes** Gray to greenish-gray, homogeneous, non-magnetic, moderately to well-foliated mafic rock. The rock is fine grained and contains abundant plagioclase as well as mafic and alteration minerals. The upper contact is gradational/digested, the lower contact is sharp at 90 degrees tca. This unit contains trace py/po.											
		Minor Interval												
149.23	152.23	**10f Mafic dykes** Gray to greenish-gray, homogeneous, non-magnetic, moderately to well-foliated mafic rock. The rock is fine grained and contains abundant plagioclase as well as mafic and alteration minerals. The upper contact is sharp but irregular, the nature of the lower contact can not be determined as the core is broken. Locally, complex folding is evident in the core. This unit is not mineralized.											
		Minor Interval												
158.60	159.54	**10f Mafic dykes** Gray to greenish-gray, homogeneous, non-magnetic, moderately to well-foliated mafic rock. The rock is fine grained and contains abundant plagioclase as well as mafic and alteration minerals. The upper contact is gradational over about 10cm, the lower contact is tectonized. Minor brecciation occurs along the hanging wall contact. This unit is not mineralized.											

Detailed Lithology			Assay Data											
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
		Minor Interval												
161.53	164.68	**10f Mafic dykes** Gray to greenish-gray, homogeneous, non-magnetic, moderately to well-foliated mafic rock. The rock is fine grained and contains abundant plagioclase as well as mafic and alteration minerals. The upper contact is sharp at 70 degrees tca, the lower contact is diffuse/digested. This unit contains trace py/po.												
		Minor Interval												
176.97	177.42	**10f Mafic dykes** Gray to greenish-gray, homogeneous, non-magnetic, moderately to well-foliated mafic rock. The rock is fine grained and contains abundant plagioclase as well as mafic and alteration minerals. The upper and lower contacts are sharp at 90 and 70 degrees, respectively. This unit is not mineralized.												
		Minor Interval												
195.00	199.67	**6d Pyroxenite** Dark gray to black , pyroxene-bearing rock. Magnetic, non-mineralized. Very broken core. Magnetic susceptibility 5 - 61.												
Alteration	168.25	168.51	HM P M	Hematite Pervasive Moderate										
Structure	28.57	28.58	S1	1st Foliation										
Structure	40.60	40.61	S1	1st Foliation										
Structure	49.37	49.38	S1	1st Foliation										
Structure	72.58	72.59	S1	1st Foliation										
Structure	88.20	88.21	S1	1st Foliation										
Structure	101.40	101.41	S1	1st Foliation										
Structure	108.59	108.60	S1	1st Foliation										
Structure	119.17	119.18	S1	1st Foliation										
Structure	129.27	129.28	S1	1st Foliation										
Structure	139.19	139.20	S1	1st Foliation										
Structure	151.35	151.36	S1	1st Foliation										
Structure	162.74	162.75	S1	1st Foliation										
Structure	175.91	175.92	S1	1st Foliation										

Detailed Lithology						Assay Data										
From	To	Lithology				Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
		Structure	190.18	190.19	S1 1st Foliation											
		Structure	200.52	200.53	S1 1st Foliation											
210.36	218.47	**8a Dolerite** Dark gray and green, homogeneous, medium-grained, plagioclase (ca. 50%) and pyroxene (ca. 50%) bearing, well-foliated rock with ophitic texture. The unit is fine-grained along the hanging wall contact. This unit is not mineralized.														
		Structure	213.26	213.27	S1 1st Foliation											
218.47	225.67	**4s Sausseritized/Tectonized Anorthosite** Plagioclase and chlorite-bearing anorthosite unit. The rock is brecciated along the hanging wall contact. The rest of the unit is highly sheared. The unit is cut by a mafic dike/sill, which could be a "finger" from the underlying unit. This unit is not mineralized.														
		Minor Interval														
			220.18	223.92	**10f Mafic dykes** Gray to greenish-gray unit, highly foliated. Locally, development of feldspar augen. This unit is somewhat inhomogeneous and could be part of the underlying metavolcanic package. The upper contact is sharp at 70 degrees tca, the lower contact is sharp but irregular. This unit is not mineralized.											
225.67	247.90	**10d Volcaniclastics** Fine to medium-grained, gray, non-magnetic unit. The grain size is variable and changes rapidly. Plagioclase is abundant as are alteration minerals (chlorite, epidote); quartz is rare but not absent. The unit is well-foliated but not mineralized. This unit is interpreted to lie outside of the Espedalen complex; representing a sequence of mafic and intermediate tuffs and other volcanic extrusives and intrusives that form the footwall package to the anorthositic Espedalen Complex.														
		Structure	232.63	232.64	S1 1st Foliation											
		Structure	241.19	241.20	S1 1st Foliation											

Espedalen - Magnetic Susceptibility	Hole Number: ES2006-54

DEPTH	MAGNETIC SUSCEPTIBILITY (X 10^{-3} SI)	COMMENTS
4.00	0.10	
5.00	0.07	
6.00	0.05	
7.00	0.08	
8.00	0.07	
9.00	0.05	
10.00	0.10	
11.00	0.65	
12.00	0.69	
13.00	0.40	
14.00	0.66	
15.00	0.71	
16.00	0.38	
17.00	0.32	
18.00	0.41	
19.00	0.53	
20.00	1.84	
21.00	2.17	
22.00	1.12	
23.00	0.69	
24.00	0.49	
25.00	0.36	
26.00	0.97	
27.00	0.34	
28.00	0.62	
29.00	0.35	
30.00	0.70	
31.00	0.58	
32.00	0.45	
33.00	0.19	
34.00	0.35	
35.00	0.37	
36.00	0.18	
37.00	0.18	
38.00	0.15	
39.00	0.27	
40.00	0.18	
41.00	0.18	

Espedalen - Magnetic Susceptibility		Hole Number: ES2006-54
42.00	0.24	
43.00	0.30	
44.00	0.18	
45.00	0.13	
46.00	0.61	
47.00	0.19	
48.00	0.59	
49.00	0.46	
50.00	0.38	
51.00	0.51	
52.00	0.46	
53.00	0.51	
54.00	0.12	
55.00	0.08	
56.00	0.11	
57.00	0.13	
58.00	0.10	
59.00	0.17	
60.00	0.04	
61.00	0.05	
62.00	0.08	
63.00	0.15	
64.00	0.12	
65.00	0.09	
66.00	0.07	
67.00	0.10	
68.00	0.15	
69.00	0.07	
70.00	0.11	
71.00	0.09	
72.00	0.12	
73.00	0.17	
74.00	0.13	
75.00	0.13	
76.00	0.11	
77.00	0.11	
78.00	0.07	
79.00	0.14	
80.00	0.09	
81.00	0.07	
82.00	0.05	

Espedalen - Magnetic Susceptibility	Hole Number: ES2006-54

83.00	0.03	
84.00	0.09	
85.00	0.12	
86.00	0.13	
87.00	0.09	
88.00	0.15	
89.00	0.15	
90.00	0.04	
91.00	0.02	
92.00	0.06	
93.00	0.06	
94.00	0.08	
95.00	0.23	
96.00	0.17	
97.00	0.22	
98.00	0.08	
99.00	0.09	
100.00	0.27	
101.00	0.17	
102.00	0.23	
103.00	0.15	
104.00	0.18	
105.00	0.08	
106.00	0.11	
107.00	0.04	
108.00	0.43	
109.00	0.41	
110.00	0.43	
111.00	0.54	
112.00	0.21	
113.00	0.14	
114.00	0.17	
115.00	0.57	
116.00	0.14	
117.00	0.07	
118.00	0.18	
119.00	0.22	
120.00	0.17	
121.00	0.08	
122.00	0.06	
123.00	0.15	

Espedalen - Magnetic Susceptibility		Hole Number: ES2006-54
124.00	0.08	
125.00	0.20	
126.00	0.13	
127.00	0.44	
128.00	0.24	
129.00	0.17	
130.00	0.08	
131.00	0.11	
132.00	0.45	
133.00	0.22	
134.00	0.11	
135.00	0.07	
136.00	0.23	
137.00	0.07	
138.00	0.06	
139.00	0.07	
140.00	0.07	
141.00	0.22	
142.00	0.05	
143.00	0.03	
144.00	0.04	
145.00	0.33	
146.00	0.03	
147.00	0.04	
148.00	0.14	
149.00	0.07	
150.00	0.30	
151.00	0.37	
152.00	0.45	
153.00	0.02	
154.00	0.02	
155.00	0.03	
156.00	0.06	
157.00	0.04	
158.00	0.16	
159.00	0.47	
160.00	0.09	
161.00	0.08	
162.00	0.50	
163.00	0.44	
164.00	0.24	

Espedalen - Magnetic Susceptibility		Hole Number: ES2006-54
165.00	0.18	
166.00	0.09	
167.00	0.08	
168.00	0.17	
169.00	0.05	
170.00	0.03	
171.00	0.12	
172.00	0.12	
173.00	0.06	
174.00	0.05	
175.00	0.45	
176.00	0.06	
177.00	0.21	
178.00	0.08	
179.00	0.03	
180.00	0.09	
181.00	0.27	
182.00	0.05	
183.00	0.07	
184.00	0.08	
185.00	0.06	
186.00	0.03	
187.00	0.05	
188.00	0.27	
189.00	0.04	
190.00	0.03	
191.00	0.04	
192.00	0.06	
193.00	0.07	
194.00	0.14	
195.00	4.67	
196.00	35.00	
197.00	61.40	
198.00	10.50	
199.00	1.45	
200.00	0.43	
201.00	0.21	
202.00	0.24	
203.00	0.21	
204.00	0.16	
205.00	0.13	

Espedalen - Magnetic Susceptibility	Hole Number: ES2006-54

206.00	0.11	
207.00	0.24	
208.00	0.20	
209.00	0.08	
210.00	0.51	
211.00	0.46	
212.00	0.47	
213.00	0.52	
214.00	0.56	
215.00	0.64	
216.00	0.57	
217.00	0.68	
218.00	0.53	
219.00	0.22	
220.00	0.23	
221.00	0.56	
222.00	0.58	
223.00	0.55	
224.00	0.17	
225.00	0.19	
226.00	0.44	
227.00	0.60	
228.00	0.45	
229.00	0.49	
230.00	0.24	
231.00	0.20	
232.00	0.71	
233.00	0.56	
234.00	0.48	–
235.00	0.42	
236.00	0.20	
237.00	0.20	
238.00	0.18	
239.00	0.19	
240.00	0.22	
241.00	0.23	
242.00	0.24	
243.00	0.34	
244.00	0.27	
245.00	0.16	
246.00	0.26	

Espedalen - Magnetic Susceptibility		Hole Number: ES2006-54
247.00	0.16	
248.00		
249.00		

Espedalen - Rock Quality (RQD)

Hole Number: ES2006-54

FROM	TO	PERCENT QUALITY	PERCENT CORE	DISKING	COMMENTS
3.93	6.00	51	100	N	
6.00	9.00	75	100	N	
9.00	12.00	62	100	N	
12.00	15.00	63	100	N	
15.00	18.00	46	100	N	
18.00	21.00	61	100	N	
21.00	24.00	36	100	N	
24.00	27.00	51	100	N	
27.00	30.00	92	100	N	
30.00	33.00	87	100	N	
33.00	36.00	95	100	N	
36.00	39.00	93	100	N	
39.00	42.00	48	100	N	
42.00	45.00	91	100	N	
45.00	48.00	94	100	N	
48.00	51.00	99	100	N	
51.00	54.00	94	100	N	
54.00	57.00	97	100	N	
57.00	60.00	91	100	N	
60.00	63.00	73	100	N	
63.00	66.00	62	100	N	
66.00	69.00	85	100	N	
69.00	72.00	72	100	N	
72.00	75.00	100	100	N	
75.00	78.00	52	100	N	
78.00	81.00	92	100	N	
81.00	84.00	57	100	N	
84.00	87.00	98	100	N	
87.00	90.00	91	100	N	
90.00	93.00	100	100	N	
93.00	96.00	93	100	N	
96.00	99.00	74	100	N	
99.00	102.00	82	100	N	
102.00	105.00	96	100	N	
105.00	108.00	57	100	N	
108.00	111.00	100	100	N	
111.00	114.00	97	100	N	
114.00	117.00	99	100	N	
117.00	120.00	97	100	N	
120.00	123.00	90	100	N	
123.00	126.00	80	100	N	
126.00	129.00	88	100	N	

Espedalen - Rock Quality (RQD)

Hole Number: ES2006-54

129.00	132.00	79	100	N	
132.00	135.00	55	100	N	
135.00	138.00	94	100	N	
138.00	141.00	64	100	N	
141.00	144.00	85	100	N	
144.00	147.00	71	100	N	
147.00	150.00	84	100	N	
150.00	153.00	72	100	N	
153.00	156.00	87	100	N	
156.00	159.00	90	100	N	
159.00	162.00	78	100	N	
162.00	165.00	88	100	N	
165.00	168.00	72	100	N	
168.00	171.00	27	100	N	
171.00	174.00	75	100	N	
174.00	177.00	94	100	N	
177.00	180.00	85	100	N	
180.00	183.00	89	100	N	
183.00	186.00	59	100	N	
186.00	189.00	78	100	N	
189.00	192.00	80	100	N	
192.00	195.00	67	100	N	
195.00	198.00	13	100	N	
198.00	201.00	37	100	N	
201.00	204.00	67	100	N	
204.00	207.00	93	100	N	
207.00	210.00	73	100	N	
210.00	213.00	85	100	N	
213.00	216.00	100	100	N	
216.00	219.00	87	100	N	
219.00	222.00	93	100	N	
222.00	225.00	84	100	N	
225.00	228.00	96	100	N	
228.00	231.00	88	100	N	
231.00	234.00	97	100	N	
234.00	237.00	100	100	N	
237.00	240.00	25	100	N	
240.00	243.00	67	100	N	
243.00	246.00	100	100	N	

Detailed Log

Hole Number: **ES2006-55** Units: METRIC

Project Name:	Espedalen	Collar Survey:	N	Plugged	N	Core Storage:	Strand Fjellstue
Project Number:	300	Mulitshot Survey:	N	Hole Size:	TT46	Contractor:	Arctic Drilling A/S
Date Started:	3/28/2006	Pulse EM Survey:	N			Logged by:	larsw
Date Completed:	4/1/2006	Casing:	Left in Hole, capped				
		Location:	Surface				

UTM WGS 84 Coord		Local Coord	
UTM Northing:	6,800,850.00	Local Northing:	3319.96
UTM Easting:	535,917.40	Local Easting:	2250.04
Elevation:	957.43		

Collar Dip:	-80.00
Collar Azimuth:	230.00
Length:	218.91

Comments

Detailed Lithology

From	To		Lithology
0.00	11.90	C	Casing

Assay Data

Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t

Detailed Lithology			Assay Data										
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
11.90	36.90	**4s Sausseritized/Tectonized Anorthosite** This white to light gray unit is non-magnetic, homogenous on a meter scale, locally well-foliated and fine to medium-grained. Plagioclase is the most abundant mineral; alteration minerals (chlorite, fuchsite, and epidote) are common. Locally, the unit has been recrystallized; here, the foliation has been destroyed. This unit is cut by m-scale mafic dikes/sills. This unit is not mineralized. **Minor Interval** 14.60 16.00 **10f Mafic dykes** Dark gray to greenish gray, fine-grained, non magnetic, well foliated, homogenous mafic rock. Locally, the unit contains plagioclase augen. The upper and lower contacts are sharp at 75 and 70 degrees tca, respectively. This unit is not mineralized. **Minor Interval** 30.81 33.62 **10f Mafic dykes** Dark gray to greenish gray, fine-grained, non magnetic, well foliated, homogenous mafic rock. The upper contact is irregular, the lower contact is broken. This unit is not mineralized **Minor Interval** 30.81 33.62 **10f Mafic dykes** Dark gray to greenish gray, fine-grained, non magnetic, well foliated, homogenous mafic rock. The upper contact is irregular, the lower contact is broken. This unit is not mineralized Alteration 18.00 21.50 HM Hematite F Fracture-Controlled W Weak Structure 30.92 30.93 S1 1st Foliation												

Detailed Lithology			Assay Data										
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
36.90	45.38	**10f Mafic dykes** This unit cosists of a homogeneous, dark gray-green, well-foliated, fine-grained, non-magnetic mafic rock. It contains pyroxene, talc and chlorite. Dm-scale partly resorbed 4s "rafts" are abundant. The lower contact of this unit is sharp at 70 degrees tca. This unit contains trace sulfide.` **Structure** 38.24 38.25 S1 1st Foliation												

Detailed Lithology

From	To	Lithology
45.38	176.00	**4s Sausseritized/Tectonized Anorthosite** This unit consists of a thick package of white to light gray anorthosite. The unit is homogenous on a meter scale, non-magnetic, and variably foliated. Fine-grained intervals with good foliation alternate with medium-grained recrystallized sections where the foliation has been destroyed. The main mineral is plagioclase; alteration minerals like chlorite, fuchsite, and epidote are common throughout. This unit is cut by several mafic and ultramafic dikes/sills. Between 109.75 and 110.10m the unit contains a partly digested unit of 10f, which contains trace amounts of py (cubic, up to 3mm in diameter). The lower contact of this unit sharp but irregular. This unit contains semi-massive remobilized sulfides no more than 30cm in thickness. The conductance of the mineralization is up to 2900 on uncut core. **Minor Interval** 48.05 50.01 **10f Mafic dykes** Dark gray to greenish gray, fine-grained, non magnetic, well foliated, homogenous mafic rock. The unit contains very minor amounts of 6d between 48.30 - 48.43m The upper and lower contacts are sharp at 60 and 70 degrees tca, respectively. This unit is not mineralized. **Minor Interval** 48.05 50.01 **10f Mafic dykes** Dark gray to greenish gray, fine-grained, non magnetic, well foliated, homogenous mafic rock. The unit contains very minor amounts of 6d between 48.30 - 48.43m The upper and lower contacts are sharp at 60 and 70 degrees tca, respectively. This unit is not mineralized. **Minor Interval** 98.91 102.97 **10f Mafic dykes** Dark gray to greenish gray, fine-grained, non magnetic, well foliated, homogenous mafic rock. Locally, the unit contains plagioclase augen. The upper and lower contacts are sharp at 75 and 90 degrees tca, respectively. This unit is not mineralized.

Assay Data

Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
PG00496	54.00	55.57	1.57	0.03	0.03	0.01	0.11	0.02	0.02	0.01	0.25
PG00497	55.57	55.90	0.33	4.36	1.44	0.11	19.60	0.02	0.01	0.01	1.40
PG00498	55.90	56.35	0.45	0.69	0.53	0.01	3.91	0.02	0.02	0.01	0.25
PG00499	56.35	57.42	1.07	0.03	0.03	0.01	0.02	0.01	0.01	0.01	0.25
PG04001	167.50	168.59	1.09	0.03	0.03	0.01	0.03	0.01	0.01	0.01	0.25
PG04002	168.59	168.89	0.30	0.05	0.03	0.02	2.35	0.02	0.01	0.01	0.25
PG04003	168.89	169.19	0.30	0.03	0.03	0.01	0.02	0.01	0.01	0.01	0.25
PG04004	169.19	169.49	0.30	0.03	0.03	0.02	2.19	0.01	0.01	0.01	0.25
PG04005	169.49	170.56	1.07	0.03	0.03	0.01	0.01	0.01	0.01	0.01	0.25

Detailed Lithology			Assay Data										
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
		Minor Interval												
98.91	102.97	**10f Mafic dykes** Dark gray to greenish gray, fine-grained, non magnetic, well foliated, homogenous mafic rock. Locally, the unit contains plagioclase augen. The upper and lower contacts are sharp at 75 and 90 degrees tca, respectively. This unit is not mineralized.											
		Minor Interval												
107.45	108.21	**10f Mafic dykes** Dark gray to greenish gray, fine-grained, non magnetic, well foliated, homogenous mafic rock. Locally, the unit contains plagioclase augen. The upper and lower contacts are sharp at 85 and 90 degrees tca, respectively. This unit is not mineralized.											
		Minor Interval												
107.45	108.21	**10f Mafic dykes** Dark gray to greenish gray, fine-grained, non magnetic, well foliated, homogenous mafic rock. Locally, the unit contains plagioclase augen. The upper and lower contacts are sharp at 85 and 90 degrees tca, respectively. This unit is not mineralized.											
		Minor Interval												
122.30	123.18	**10f Mafic dykes** Dark gray to greenish gray, fine-grained, non magnetic, well foliated, homogenous mafic rock. The upper contact is at 70 and 70 degrees tca, the lower contact is broken. This unit is not mineralized.											
		Minor Interval												
122.30	123.18	**10f Mafic dykes** Dark gray to greenish gray, fine-grained, non magnetic, well foliated, homogenous mafic rock. The upper contact is at 70 and 70 degrees tca, the lower contact is broken. This unit is not mineralized.											

Detailed Lithology			Assay Data										
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
		Minor Interval												
133.09	133.62	**10f Mafic dykes** Dark gray to greenish gray, fine-grained, non magnetic, well foliated, homogenous mafic rock. The upper and lower contacts are sharp,the upper one at 90, the lower one is irregular. This unit is coarser-grained in the top half, the grain size difference to the lower half sharp and distinct. It is likely that this unit was formed from two pulses of magma. This unit is not mineralized.											
		Minor Interval												
133.09	133.62	**10f Mafic dykes** Dark gray to greenish gray, fine-grained, non magnetic, well foliated, homogenous mafic rock. The upper and lower contacts are sharp,the upper one at 90, the lower one is irregular. This unit is coarser-grained in the top half, the grain size difference to the lower half sharp and distinct. It is likely that this unit was formed from two pulses of magma. This unit is not mineralized.											
		Minor Interval												
144.68	148.68	**6d Pyroxenite** Dark gray to black , pyroxene-bearing rock. Magnetic, non-mineralized. Mm-scale biotite clots, abundant talc. Very broken core. Mag sus 12 - 43											
		Minor Interval												
144.68	148.68	**6d Pyroxenite** Dark gray to black , pyroxene-bearing rock. Magnetic, non-mineralized. Mm-scale biotite clots, abundant talc. Very broken core. Mag sus 12 - 43											
		Minor Interval												
148.68	154.37	**10f Mafic dykes** Dark gray to greenish gray, fine-grained, non magnetic, well foliated, homogenous mafic rock. The upper contact is at gradational, the lower one is sharp at 70 degrees tca. This unit is not mineralized.											

Detailed Lithology						Assay Data												
From	To	Lithology				Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
Minor Interval																		
148.68	154.37	**10f Mafic dykes** Dark gray to greenish gray, fine-grained, non magnetic, well foliated, homogenous mafic rock. The upper contact is at gradational, the lower one is sharp at 70 degrees tca. This unit is not mineralized.																
Mineralization		55.57	55.90	3.0%	Cpy Chalcopyrite BB Blebby associated with remobed po													
Mineralization		55.57	55.90	2.0%	Pn Pentlandite FG Fine Grained in sub-mm scale flecks as exsolution in p													
Mineralization		55.57	55.90	55.0%	Po Pyrrhotite SM Semi-Massive remobilized													
Mineralization		168.83	168.84	10.0%	Py Pyrite STR Stringers associated with po													
Mineralization		168.83	168.84	50.0%	Po Pyrrhotite STR Stringers remobed, possibly with minor amount of UM													
Mineralization		169.23	169.24	10.0%	Py Pyrite STR Stringers associated with po													
Mineralization		169.23	169.24	50.0%	Po Pyrrhotite STR Stringers remobed													
Mineralization		169.40	169.41	20.0%	Po Pyrrhotite STR Stringers													
Structure		46.89	46.90	S1	1st Foliation													
Structure		55.45	55.46	S1	1st Foliation													
Structure		63.58	63.59	S1	1st Foliation													
Structure		69.59	69.70	S1	1st Foliation													
Structure		82.15	82.16	S1	1st Foliation													
Structure		99.31	99.32	S1	1st Foliation													
Structure		109.50	109.51	S1	1st Foliation													
Structure		148.93	148.94	S1	1st Foliation													
Structure		158.43	158.44	S1	1st Foliation													

Detailed Lithology					Assay Data										
From	To	Lithology			Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
	Structure	172.80	172.81	S1 1st Foliation												

176.00 196.39 **10f Mafic dykes**

Dark gray to greenish-gray, fine to medium-grained, well foliated, homogenous mafic intrusive rock. It contains plagioclase and amphiboles/pyroxenes as well as abundant alteration minerals (chlorite, epidote). This unit contains 2 4s minor units.
Due to the relation to the underlying unit it could be that this unit is acutally part of it; however, since it contains the aforementioned 4s units it is believed that it is part of the Espedalen complex.
The lower contact of this unit is sharp at 75 degrees tca.

This unit is not mineralized.

Minor Interval

190.47 192.42 **4s Sausseritized/Tectonized Anorthosite**

Plagioclase-rich, well-foliated, contains dm-scale 10f, fine to medium-grained.
The upper and lower contacts are sharp at 75 and 80 degrees tca.

Minor Interval

190.47 192.42 **4s Sausseritized/Tectonized Anorthosite**

Plagioclase-rich, well-foliatec, contains dm-scale 10f, fine to medium-grained.
The upper and lower contacts are sharp at 75 and 80 degrees tca.

Minor Interval

195.78 196.39 **4s Sausseritized/Tectonized Anorthosite**

Plagioclase-rich unit, well-foliated, medium-grained. The unit contains about 50% mafic minerals; it is likely that some mafic material has been resorbed into this unit.

This unit is not mineralized.

Minor Interval

195.78 196.39 **4s Sausseritized/Tectonized Anorthosite**

Plagioclase-rich unit, well-foliated, medium-grained. The unit contains about 50% mafic minerals; it is likely that some mafic material has been resorbed into this unit.

This unit is not mineralized.

Detailed Lithology			Assay Data										
From	To	Lithology	Sample #	From	To	Length	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
196.39	218.91	**10d Volcaniclastics** Fine to medium-grained, gray, non-magnetic unit. The grain size is variable and changes rapidly. Plagioclase is abundant as are alteration minerals (chlorite, epidote); quartz is rare but not absent. The unit is well-foliated but not mineralized. The lower contact of this unit is unknown since the hole was shut down This unit is interpreted to lie outside of the Espedalen complex; representing a sequence of mafic and intermediate tuffs and other volcanic extrusives.											
218.91	218.91	**EO End of Hole**											

Espedalen - Analysis

Hole Number: ES2006-55

Sample Number	From	To	Sample Length (m)	Ni%	Cu%	Co%	S%	Au g/t	Pt g/t	Pd g/t	Ag g/t	Pb%	Zn%	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI%	SUM %
PG00496	54.00	55.57	1.57	0.03	0.03	0.01	0.11	0.01	0.02	0.02	0.25																
PG00497	55.57	55.90	0.33	4.36	1.44	0.11	19.60	0.01	0.02	0.01	1.40																
PG00498	55.90	56.35	0.45	0.69	0.53	0.01	3.91	0.01	0.02	0.02	0.25																
PG00499	56.35	57.42	1.07	0.03	0.03	0.01	0.02	0.01	0.01	0.01	0.25																
PG04001	167.50	168.59	1.09	0.03	0.03	0.01	0.03	0.01	0.01	0.01	0.25																
PG04002	168.59	168.89	0.30	0.05	0.03	0.02	2.35	0.01	0.02	0.01	0.25																
PG04003	168.89	169.19	0.30	0.03	0.03	0.01	0.02	0.01	0.01	0.01	0.25																
PG04004	169.19	169.49	0.30	0.03	0.03	0.02	2.19	0.01	0.01	0.01	0.25																
PG04005	169.49	170.56	1.07	0.03	0.03	0.01	0.01	0.01	0.01	0.01	0.25																

Espedalen - Conductivity		Hole Number: ES2006-55
Depth	Conductivity (Siemens)	COMMENTS
55.64		2900 on uncut core
55.74		2675 on uncut core
55.82		1515 on uncut core
168.83		90 on uncut core
169.23		15 on uncut core
169.40		18 on uncut core

Espedalen - Magnetic Susceptibility	Hole Number: ES2006-55

DEPTH	MAGNETIC SUSCEPTIBILITY (X 10^{-3} SI)	COMMENTS
12.00	0.06	
13.00	0.22	
14.00	0.21	
15.00	0.58	
16.00	0.09	
17.00	0.11	
18.00	0.03	
19.00	0.10	
20.00	0.02	
21.00	0.03	
22.00	0.04	
23.00	0.03	
24.00	0.06	
25.00	0.04	
26.00	0.08	
27.00	0.34	
28.00	0.05	
29.00	0.07	
30.00	0.09	
31.00	0.64	
32.00	0.03	
33.00	0.12	
34.00	0.18	
35.00	0.04	
36.00	0.07	
37.00	0.38	–
38.00	0.44	
39.00	0.44	
40.00	0.40	
41.00	0.43	
42.00	0.86	
43.00	0.13	
44.00	0.36	
45.00	0.48	
46.00	0.16	
47.00	0.19	
48.00	0.17	
49.00	0.53	

Espedalen - Magnetic Susceptibility		Hole Number: ES2006-55
50.00	0.29	
51.00	0.20	
52.00	0.34	
53.00	0.19	
54.00	0.18	
55.00	0.19	
56.00	4.17	
57.00	1.17	
58.00	0.15	
59.00	0.13	
60.00	0.12	
61.00	0.15	
62.00	0.04	
63.00	0.13	
64.00	0.15	
65.00	0.18	
66.00	0.13	
67.00	0.25	
68.00	0.14	
69.00	0.16	
70.00	0.21	
71.00	0.24	
72.00	0.91	
73.00	0.17	
74.00	0.24	
75.00	0.04	
76.00	0.03	
77.00	0.09	
78.00	0.15	
79.00	0.04	
80.00	0.16	
81.00	0.10	
82.00	0.09	
83.00	0.07	
84.00	0.19	
85.00	0.03	
86.00	0.05	
87.00	0.09	
88.00	0.04	
89.00	0.04	
90.00	0.11	

Espedalen - Magnetic Susceptibility		Hole Number: ES2006-55
91.00	0.10	
92.00	0.06	
93.00	0.08	
94.00	0.06	
95.00	0.21	
96.00	0.05	
97.00	0.14	
98.00	0.15	
99.00	0.46	
100.00	0.83	
101.00	0.48	
102.00	0.65	
103.00	0.11	
104.00	0.15	
105.00	0.09	
106.00	0.11	
107.00	0.12	
108.00	0.44	
109.00	0.12	
110.00	0.35	
111.00	0.05	
112.00	0.06	
113.00	0.19	
114.00	0.13	
115.00	0.04	
116.00	0.05	
117.00	0.05	
118.00	0.03	
119.00	0.05	
120.00	0.06	
121.00	0.13	
122.00	0.06	
123.00	0.30	
124.00	0.06	
125.00	0.04	
126.00	0.03	
127.00	0.05	
128.00	0.07	
129.00	0.03	
130.00	0.03	
131.00	0.05	

Espedalen - Magnetic Susceptibility		Hole Number: ES2006-55
132.00	0.03	
133.00	0.06	
134.00	0.04	
135.00	0.06	
136.00	0.05	
137.00	0.04	
138.00	0.04	
139.00	0.01	
140.00	0.08	
141.00	0.06	
142.00	0.04	
143.00	0.07	
144.00	2.88	
145.00	12.50	
146.00	35.20	
147.00	43.60	
148.00	4.70	
149.00	0.76	
150.00	0.57	
151.00	0.56	
152.00	0.75	
153.00	0.36	
154.00	0.80	
155.00	0.15	
156.00	0.31	
157.00	0.13	
158.00	1.57	
159.00	0.14	
160.00	0.24	
161.00	0.16	
162.00	0.28	
163.00	0.14	
164.00	0.34	
165.00	0.10	
166.00	0.08	
167.00	0.27	
168.00	0.10	
169.00	0.21	
170.00	0.04	
171.00	0.26	
172.00	0.08	

Espedalen - Magnetic Susceptibility		Hole Number: ES2006-55
173.00	0.38	
174.00	0.27	
175.00	0.31	
176.00	0.40	
177.00	0.34	
178.00	0.50	
179.00	0.38	
180.00	0.54	
181.00	0.55	
182.00	0.73	
183.00	0.55	
184.00	0.50	
185.00	0.56	
186.00	0.53	
187.00	0.28	
188.00	0.58	
189.00	0.48	
190.00	0.68	
191.00	0.24	
192.00	0.19	
193.00	0.58	
194.00	0.54	
195.00	0.50	
196.00	0.24	
197.00	0.63	
198.00	0.64	
199.00	0.51	
200.00	0.16	
201.00	0.60	
202.00	0.30	
203.00	0.36	
204.00	0.32	
205.00	0.38	
206.00	0.41	
207.00	0.41	
208.00	0.40	
209.00	0.28	
210.00	0.30	
211.00	0.29	
212.00	0.47	
213.00	0.47	

Espedalen - Magnetic Susceptibility		Hole Number: ES2006-55
214.00	0.21	
215.00	0.21	
216.00	0.29	
217.00	0.32	
218.00	0.13	

Espedalen - Rock Quality (RQD)

Hole Number: ES2006-55

FROM	TO	PERCENT QUALITY	PERCENT CORE	DISKING	COMMENTS
11.60	15.00	56	100	N	
15.00	18.00	55	100	N	
18.00	21.00	80	100	N	
21.00	24.00	53	100	N	
24.00	27.00	75	100	N	
27.00	30.00	86	100	N	
30.00	33.00	92	100	N	
33.00	36.00	91	100	N	
36.00	39.00	45	100	N	
39.00	42.00	54	100	N	
42.00	45.00	56	100	N	
45.00	48.00	88	100	N	
48.00	51.00	91	100	N	
51.00	54.00	97	100	N	
54.00	57.00	87	100	N	
57.00	60.00	67	100	N	
60.00	63.00	71	100	N	
63.00	66.00	86	100	N	
66.00	69.00	71	100	N	
69.00	72.00	70	100	N	
72.00	75.00	85	100	N	
75.00	78.00	45	100	N	
78.00	81.00	61	100	N	
81.00	84.00	50	100	N	
84.00	87.00	73	100	N	
87.00	90.00	48	100	N	
90.00	93.00	92	100	N	
93.00	96.00	85	100	N	
96.00	99.00	72	100	N	
99.00	102.00	95	100	N	
102.00	105.00	78	100	N	
105.00	108.00	98	100	N	
108.00	111.00	67	100	N	
111.00	114.00	79	100	N	
114.00	117.00	70	100	N	
117.00	120.00	30	100	N	
120.00	123.00	21	100	N	
123.00	126.00	33	100	N	
126.00	129.00	47	100	N	
129.00	132.00	60	100	N	
132.00	135.00	58	100	N	
135.00	138.00	56	100	N	

Espedalen - Rock Quality (RQD)					Hole Number: ES2006-55
138.00	141.00	87	100	N	
141.00	144.00	66	100	N	
144.00	147.00	32	100	N	
147.00	150.00	58	100	N	
150.00	153.00	92	100	N	
153.00	156.00	76	100	N	
156.00	159.00	75	100	N	
159.00	162.00	86	100	N	
162.00	165.00	99	100	N	
165.00	168.00	100	100	N	
168.00	171.00	94	100	N	
171.00	174.00	95	100	N	
174.00	177.00	85	100	N	
177.00	180.00	90	100	N	
180.00	183.00	91	100	N	
183.00	186.00	100	100	N	
186.00	189.00	98	100	N	
189.00	192.00	95	100	N	
192.00	195.00	99	100	N	
195.00	198.00	97	100	N	
198.00	201.00	94	100	N	
201.00	204.00	96	100	N	
204.00	207.00	98	100	N	
207.00	210.00	93	100	N	
210.00	213.00	99	100	N	
213.00	216.00	99	100	N	
216.00	218.91	98	100	N	

Appendix E

APPENDIX E

ASSAY CERTIFICATES

Final

SGS Lakefield Research Limited
P.O. Box 4300 - 185 Concession St
Lakefield - Ontario - K0L 2H0
Phone: 705-652-2038 FAX: 705-652-6441

Falconbridge Limited
Attn : Patti Tirschmann

Queen's Quay Terminal, 207 Queen's Quay West, Suite 800, Toronto, ON , M5J 1A7
Phone: 416 982 7455, Fax:416 982 7420

Tuesday, April 25, 2006

Date Rec. : 31 March 2006
LR Report : CA03000-APR06
Client Ref : PO# 300

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
1: PG 00433	< 0.05	< 0.05	< 0.02	< 0.01	< 0.02	< 0.02	< 0.02	< 0.5
2: PG 00434	0.22	< 0.05	< 0.02	0.93	< 0.02	< 0.02	0.02	< 0.5
3: PG 00435	< 0.05	< 0.05	< 0.02	0.18	< 0.02	< 0.02	< 0.02	< 0.5
4: PG 00436	0.46	0.26	< 0.02	2.61	0.04	0.04	0.03	< 0.5
5: PG 00437	< 0.05	< 0.05	< 0.02	0.22	< 0.02	< 0.02	< 0.02	< 0.5
6: PG 00438	< 0.05	< 0.05	< 0.02	< 0.01	0.03	0.02	< 0.02	< 0.5
7: PG 00439	< 0.05	< 0.05	< 0.02	0.50	0.08	0.05	< 0.02	< 0.5
8: PG 00440	< 0.05	< 0.05	< 0.02	0.03	0.03	< 0.02	< 0.02	< 0.5
9: PG 00441	< 0.05	< 0.05	< 0.02	0.18	0.02	< 0.02	< 0.02	< 0.5
10: PG 00442	< 0.05	< 0.05	< 0.02	0.02	< 0.02	< 0.02	< 0.02	< 0.5
11: PG 00443	< 0.05	< 0.05	< 0.02	0.31	< 0.02	< 0.02	0.03	< 0.5
12: PG 00444	< 0.05	< 0.05	< 0.02	0.14	< 0.02	< 0.02	0.04	< 0.5
13: PG 00445	2.32	0.58	0.07	9.70	< 0.02	0.06	0.04	0.8
14: PG 00446	< 0.05	< 0.05	< 0.02	0.03	< 0.02	< 0.02	< 0.02	< 0.5
15: PG 00447	< 0.05	< 0.05	< 0.02	0.14	< 0.02	< 0.02	< 0.02	< 0.5
16: PG 00448	< 0.05	< 0.05	0.03	0.69	< 0.02	< 0.02	0.02	< 0.5
17: PG 00449	< 0.05	< 0.05	< 0.02	0.10	< 0.02	< 0.02	< 0.02	< 0.5
18: PG 00450	1.72	0.33	0.04	9.72	0.07	0.15	0.02	< 0.5
19: PG 00451	< 0.05	< 0.05	< 0.02	0.02	0.07	0.12	0.03	< 0.5
20: PG 00452	0.05	< 0.05	< 0.02	0.94	< 0.02	< 0.02	0.02	< 0.5
21: PG 00453	< 0.05	< 0.05	< 0.02	0.66	< 0.02	< 0.02	< 0.02	< 0.5
22: PG 00454	< 0.05	< 0.05	< 0.02	1.01	< 0.02	< 0.02	< 0.02	< 0.5
23: PG 00455	< 0.05	< 0.05	< 0.02	0.34	< 0.02	< 0.02	< 0.02	< 0.5
24: PG 00456	< 0.05	< 0.05	< 0.02	0.73	< 0.02	< 0.02	< 0.02	< 0.5
25: PG 00457	< 0.05	< 0.05	< 0.02	0.29	< 0.02	< 0.02	< 0.02	< 0.5
26: PG 00458	< 0.05	< 0.05	< 0.02	0.47	0.02	< 0.02	< 0.02	< 0.5
27: PG 00459	< 0.05	< 0.05	< 0.02	1.04	< 0.02	< 0.02	< 0.02	< 0.5

SGS Lakefield Research Limited
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - K0L 2H0
Phone: 705-652-2038 FAX: 705-652-6441

LR Report : CA03000-APR06

Sample ID	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
28: PG 00460	< 0.05	< 0.05	< 0.02	0.04	< 0.02	< 0.02	< 0.02	< 0.5
29: PG 00461	< 0.05	< 0.05	< 0.02	0.03	< 0.02	< 0.02	< 0.02	< 0.5
30: PG 00462	< 0.05	< 0.05	< 0.02	0.06	< 0.02	< 0.02	< 0.02	< 0.5
31: PG 00463	0.05	< 0.05	< 0.02	0.79	0.13	0.04	0.02	< 0.5
32: PG 00464	< 0.05	< 0.05	< 0.02	0.07	0.08	0.05	0.03	< 0.5
33: PG 00465	0.05	0.06	< 0.02	1.90	0.02	< 0.02	0.02	< 0.5
34: PG 00466	< 0.05	< 0.05	< 0.02	0.02	0.02	< 0.02	< 0.02	< 0.5
35: PG 00467	< 0.05	< 0.05	< 0.02	1.09	0.14	0.06	< 0.02	< 0.5
36: PG 00468	< 0.05	< 0.05	< 0.02	0.17	0.02	< 0.02	< 0.02	< 0.5
37: PG 00469	< 0.05	< 0.05	< 0.02	0.05	0.02	< 0.02	< 0.02	< 0.5
38: PG 00470	< 0.05	< 0.05	< 0.02	0.09	< 0.02	< 0.02	< 0.02	< 0.5
39: PG 00471	< 0.05	< 0.05	< 0.02	0.01	< 0.02	< 0.02	< 0.02	< 0.5
40: PG 00472	< 0.05	< 0.05	< 0.02	0.01	< 0.02	< 0.02	< 0.02	< 0.5
41: PG 00473	6.86	1.31	0.19	31.0	0.08	0.21	< 0.02	1.0
42: PG 00474	0.26	0.18	< 0.02	1.25	0.06	< 0.02	< 0.02	< 0.5
43: PG 00475	1.96	0.40	0.06	11.0	0.09	0.17	< 0.02	< 0.5
44: PG 00476	2.91	0.54	0.09	16.2	0.10	0.05	< 0.02	< 0.5
45: PG 00477	0.09	< 0.05	< 0.02	0.42	< 0.02	< 0.02	< 0.02	< 0.5
46: PG 00478	2.05	0.64	0.05	9.82	1.24	0.46	0.18	0.8
47: PG 00479	0.05	0.05	< 0.02	0.31	< 0.02	< 0.02	0.05	< 0.5
48: PG 00480	0.83	0.42	0.07	5.82	< 0.02	0.02	0.03	< 0.5
49: PG 00481	0.73	0.13	0.07	5.07	< 0.02	< 0.02	< 0.02	< 0.5
50: PG 00482	0.06	< 0.05	< 0.02	0.24	< 0.02	< 0.02	< 0.02	< 0.5
51: PG 00483	0.08	0.05	< 0.02	0.15	< 0.02	< 0.02	< 0.02	< 0.5
52: PG 00484	0.17	0.06	< 0.02	0.99	< 0.02	< 0.02	< 0.02	< 0.5
53: PG 00485	< 0.05	< 0.05	< 0.02	0.12	< 0.02	< 0.02	< 0.02	< 0.5
54: PG 00486	< 0.05	< 0.05	< 0.02	0.03	< 0.02	< 0.02	< 0.02	< 0.5
55: PG 00487	< 0.05	< 0.05	< 0.02	0.05	0.03	0.02	< 0.02	< 0.5
56: PG 00488	< 0.05	< 0.05	< 0.02	0.56	0.08	0.04	< 0.02	< 0.5
57: PG 00489	< 0.05	< 0.05	< 0.02	1.01	< 0.02	< 0.02	< 0.02	< 0.5
58: PG 00490	< 0.05	< 0.05	< 0.02	0.66	< 0.02	< 0.02	< 0.02	< 0.5
59: PG 00491	< 0.05	< 0.05	< 0.02	0.85	< 0.02	< 0.02	< 0.02	< 0.5
60: PG 00492	< 0.05	< 0.05	< 0.02	0.09	< 0.02	< 0.02	< 0.02	< 0.5
61: PG 00493	< 0.05	< 0.05	< 0.02	0.05	< 0.02	< 0.02	< 0.02	< 0.5
62: PG 00494	< 0.05	< 0.05	< 0.02	1.01	0.02	< 0.02	< 0.02	< 0.5
63: PG 00495	< 0.05	< 0.05	< 0.02	0.05	0.06	0.02	< 0.02	< 0.5
64-DUP: PG 00452	0.05	< 0.05	< 0.02	0.96	< 0.02	< 0.02	0.02	< 0.5
65-DUP: PG 00472	< 0.05	< 0.05	< 0.02	0.01	< 0.02	< 0.02	< 0.02	< 0.5
66-DUP: PG 00492	< 0.05	< 0.05	< 0.02	0.08	< 0.02	< 0.02	< 0.02	< 0.5
67-REP: PG 00483	0.07	< 0.05	< 0.02	0.05	< 0.02	< 0.02	< 0.02	< 0.5
68-STD: PTC-1A XRF	10.1	13.3	0.29	---	---	---	---	---
69-STD: SU1a XRF	1.24	0.99	0.04	---	---	---	---	---

SGS Lakefield Research Limited
P.O. Box 4300 - 185 Concession St
Lakefield - Ontario - K0L 2H0
Phone: 705-652-2038 FAX: 705-652-6441

LR Report : CA03000-APR06

Sample ID	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
70-STD: Ni1 XRF	0.97	0.29	0.02	---	---	---	---	---
72-STD: nbm-1	---	---	---	0.28	---	---	---	---
73-STD: RTS-1	---	---	---	1.65	---	---	---	---
74-STD: RTS-2	---	---	---	18.7	---	---	---	---
75-STD: CZN-3	---	---	---	31.6	---	---	---	43.6
76-STD: WMS_1	---	---	---	---	1.97	1.19	0.24	---

Debbie Waldon
Debbie Waldon
Project Coordinator,
Minerals Services, Analytical

Email: patti.tirschmann@toronto.norfalc.com

SGS Lakefield Research Limited
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - K0L 2H0
Phone: 705-652-2038 FAX: 705-652-6441

Falconbridge Limited
Attn : Patti Tirschmann

Queen's Quay Terminal, 207 Queen's Quay West, Suite 800, Toronto, ON , M5J 1A7
Phone: 416 982 7455, Fax:416 982 7420

Wednesday, May 03, 2006

Date Rec. : 26 April 2006
LR Report : CA03151-APR06
Client Ref : PO#300

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Ni %	Ni-orig	Cu %	Cu-orig	Co %	Co-orig
1: PG 00433	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
2: PG 00434	0.21	0.22	< 0.05	< 0.05	< 0.02	< 0.02
3: PG 00435	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
4: PG 00436	0.48	0.46	0.26	0.26	< 0.02	< 0.02
5: PG 00437	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
6: PG 00438	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
7: PG 00439	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
8: PG 00440	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
9: PG 00441	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
10: PG 00442	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
11: PG 00443	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
12: PG 00444	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
13: PG 00445	2.31	2.32	0.59	0.58	0.06	0.07
14: PG 00446	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
15: PG 00447	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
16: PG 00448	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	0.03
17: PG 00449	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
18: PG 00450	1.70	1.72	0.37	0.33	0.05	0.04
19: PG 00451	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
20: PG 00452	0.05	0.05	< 0.05	< 0.05	< 0.02	< 0.02
21: PG 00453	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
22: PG 00454	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
23: PG 00455	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
24: PG 00456	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
25: PG 00457	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
26: PG 00458	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
27: PG 00459	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
28: PG 00460	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02

SGS Lakefield Research Limited
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - K0L 2H0
Phone: 705-652-2038 FAX: 705-652-6441

LR Report : CA03151-APR06

Sample ID	Ni %	Ni-orig	Cu %	Cu-orig	Co %	Co-orig
29: PG 00461	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
30: PG 00462	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
31: PG 00463	< 0.05	0.05	< 0.05	< 0.05	< 0.02	< 0.02
32: PG 00464	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
33: PG 00465	0.06	0.05	0.06	0.06	< 0.02	< 0.02
34: PG 00466	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
35: PG 00467	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
36: PG 00468	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
37: PG 00469	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
38: PG 00470	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
39: PG 00471	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
40: PG 00472	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
41: PG 00473	6.80	6.86	1.32	1.31	0.19	0.19
42: PG 00474	0.26	0.26	0.24	0.18	< 0.02	< 0.02
43: PG 00475	1.93	1.96	0.44	0.4	0.05	0.06
44: PG 00476	2.83	2.91	0.53	0.54	0.09	0.09
45: PG 00477	0.07	0.09	< 0.05	< 0.05	< 0.02	< 0.02
46: PG 00478	2.04	2.05	0.64	0.64	0.07	0.05
47: PG 00479	< 0.05	0.05	0.08	0.05	< 0.02	< 0.02
48: PG 00480	0.84	0.83	0.41	0.42	0.08	0.07
49: PG 00481	0.71	0.73	0.13	0.13	0.07	0.07
50: PG 00482	0.07	0.06	< 0.05	< 0.05	< 0.02	< 0.02
51: PG 00483	0.09	0.08	< 0.05	0.05	< 0.02	< 0.02
52: PG 00484	0.18	0.17	0.08	0.06	< 0.02	< 0.02
53: PG 00485	0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
54: PG 00486	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
55: PG 00487	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
56: PG 00488	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
57: PG 00489	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
58: PG 00490	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
59: PG 00491	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
60: PG 00492	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
61: PG 00493	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
62: PG 00494	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
63: PG 00495	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
64-DUP: PG 00452	0.06	0.05	< 0.05	< 0.05	< 0.02	< 0.02
65-DUP: PG 00472	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
66-DUP: PG 00492	< 0.05	< 0.05	< 0.05	< 0.05	< 0.02	< 0.02
67-REP: PG 00483	0.06	0.07	< 0.05	< 0.05	< 0.02	< 0.02
68-STD: PTC-1A XRF	10.4	10.1	13.6	13.3	0.30	0.29
69-STD: SU1a XRF	1.25	1.24	0.97	0.99	0.04	0.04
70-STD: Ni1 XRF	1.02	0.97	0.31	0.29	0.03	0.02

SGS Lakefield Research Limited
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - K0L 2H0
Phone: 705-652-2038 FAX: 705-652-6441

LR Report : CA03151-APR06

Debbie Waldon
Project Coordinator,
Minerals Services, Analytical

Email: patti.tirschmann@toronto.norfalc.com

Final

SGS Lakefield Research Limited
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - K0L 2H0
Phone: 705-652-2038 FAX: 705-652-6441

Falconbridge Limited
Attn : Patti Tirschmann

Queen's Quay Terminal, 207 Queen's Quay West, Suite 800, Toronto, ON , M5J 1A7
Phone: 416 982 7455, Fax:416 982 7420

Thursday, April 27, 2006

Date Rec. : 11 April 2006
LR Report : CA03054-APR06
Client Ref : PO#300

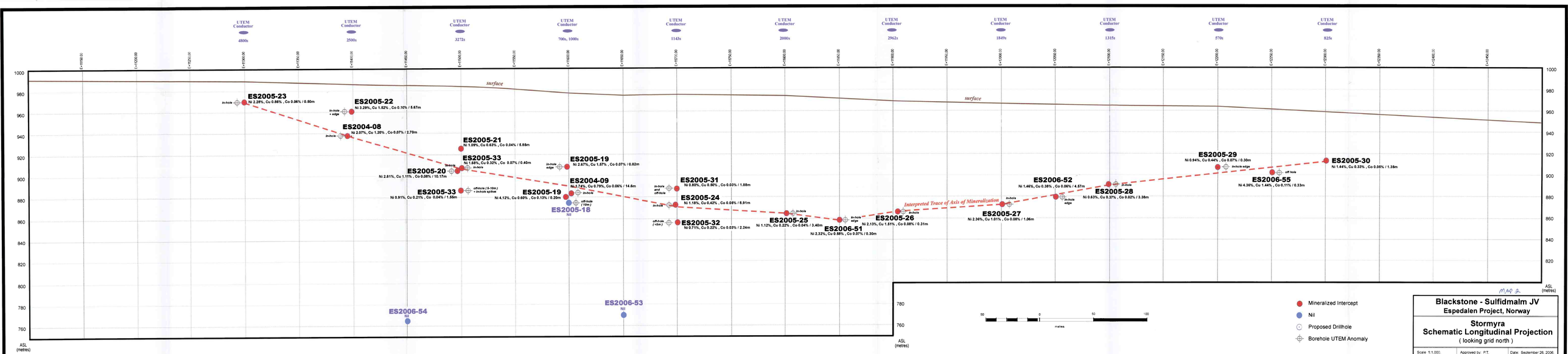
CERTIFICATE OF ANALYSIS
Final Report

Sample ID	Ni %	Cu %	Co %	S %	Pt g/t	Pd g/t	Au g/t	Ag g/t
1: PG 00496	< 0.05	< 0.05	< 0.02	0.11	0.02	0.02	< 0.02	< 0.5
2: PG 00497	4.36	1.44	0.11	19.6	0.02	< 0.02	< 0.02	1.4
3: PG 00498	0.69	0.53	< 0.02	3.91	0.02	0.02	< 0.02	< 0.5
4: PG 00499	< 0.05	< 0.05	< 0.02	0.02	< 0.02	< 0.02	< 0.02	< 0.5
5: PG 00500	1.74	0.36	0.06	10.3	0.08	0.16	0.83	< 0.5
6: PG 04001	< 0.05	< 0.05	< 0.02	0.03	< 0.02	< 0.02	< 0.02	< 0.5
7: PG 04002	0.05	< 0.05	0.02	2.35	0.02	< 0.02	< 0.02	< 0.5
8: PG 04003	< 0.05	< 0.05	< 0.02	0.02	< 0.02	< 0.02	< 0.02	< 0.5
9: PG 04004	< 0.05	< 0.05	0.02	2.19	< 0.02	< 0.02	< 0.02	< 0.5
10: PG 04005	< 0.05	< 0.05	< 0.02	0.01	< 0.02	< 0.02	< 0.02	< 0.5
11-STD: PTC-1A XRF	10.1	13.4	0.29	---	---	---	---	---
15-STD: nbm-1	---	---	---	0.31	---	---	---	---
16-STD: RTS-1	---	---	---	1.66	---	---	---	---
18-STD: CZN-3	---	---	---	31.6	---	---	---	44.6
19-STD: WMS_1	---	---	---	---	1.92	1.21	0.53	---

Debbie Waldon
Debbie Waldon
Project Coordinator,
Minerals Services, Analytical

Email: patti.tirschmann@toronto.norfalc.com

OnLine LIMS

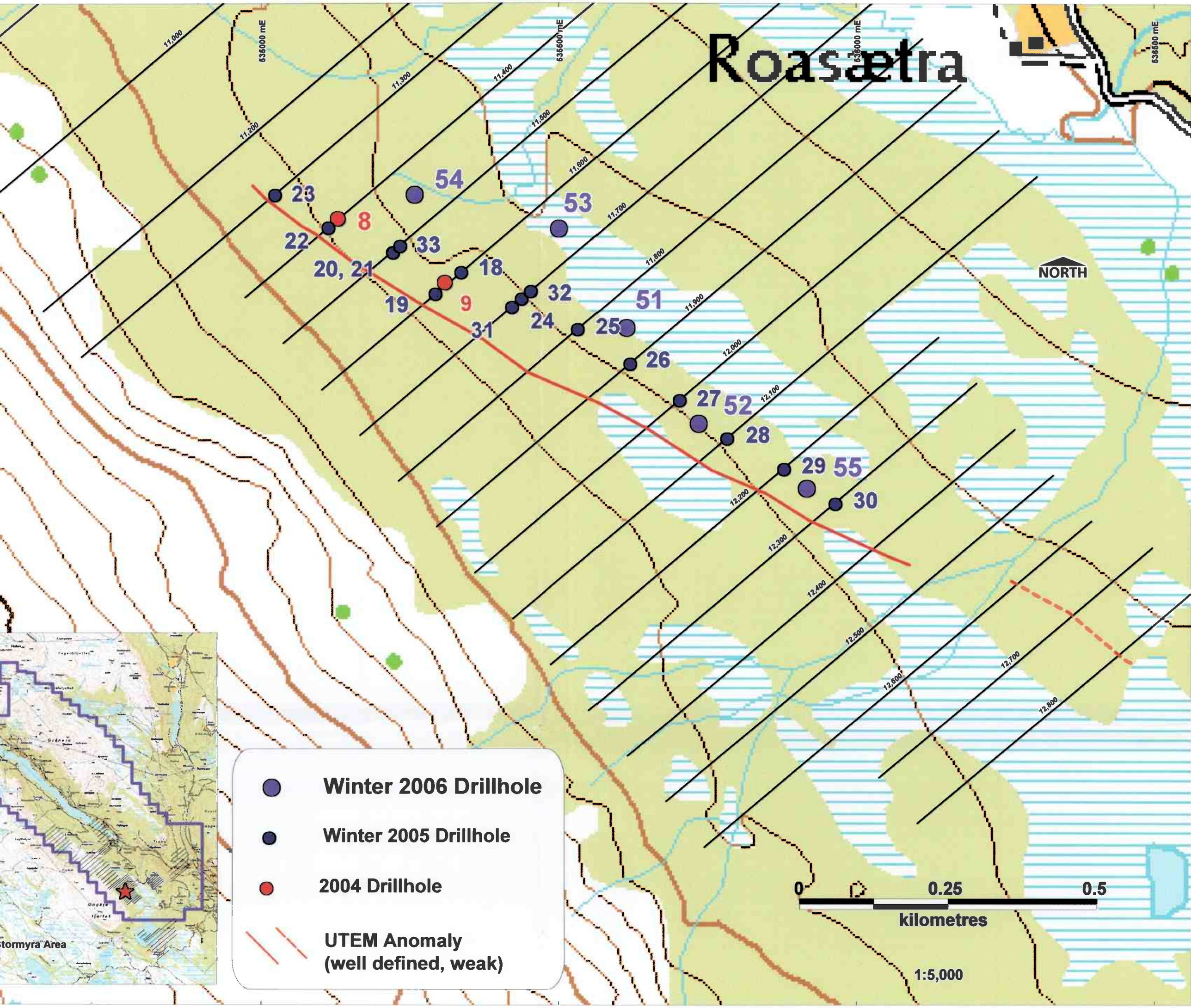


Blackstone - Sulfidmalm JV
Espedalen Project, Norway

Stormyra
Schematic Longitudinal Projection
(looking grid north)

Scale: 1:1,000	Approved by: P.T.	Date: September 26, 2006

MAP 1: PLAN MAP OF STORMYRA DRILLING



E+11850.00 N+3050.00 N+3100.00 N+3150.00 N+3200.00 N+3250.00 N+3300.00 N+3350.00

980.00 960.00 940.00 920.00 900.00 880.00 860.00 840.00 820.00 800.00 780.00 760.00 740.00 720.00

ES2006-51

C

4s

1or

10r

4s

10r

4s

10r

10r

6e

10r

4s

Espedalen Complex

10d

249.00

Major and Minor Lithogy Descriptions

- ROCK TYPES (All Rock Types)
  - 1 (Jotunite)
  - 10 (Mafic Metavolcanic)
    - 10a (Massive flows)
    - 10b (Pillowed flows)
    - 10c (Tuffs)
    - 10d (Volcaniclastics)
    - 10e (Metavolcanic Schists)
    - 10f (Mafic dykes)
  - 11 (Intermediate Metavolcanics)
    - 11a (Massive Flows)
    - 11b (Tuffs)
    - 11c (Volcaniclastics)
    - 11d (Metavolcanic Schists)
    - 11e (Intermediate dykes)
  - 12 (Felsic Metavolcanics)
    - 12a (Massive Flows)
    - 12b (Tuffs)
    - 12c (Volcaniclastics)
    - 12d (Metavolcanic Schists)
    - 12e (Felsic dykes)
  - 2 (Charnockite)
  - 3 (Granitic Augen Gneiss)
  - 4 (Anorthosite / Anorthositic Gabbro)
    - 4s (Saussenitized/Tectonized Anorthosite)
  - 5 (Undivided Metasediments)
    - 5a (Siliceous Metasediments)
    - 5b (Pelitic Metasediments)
  - 6 (Undivided Ultramafic Intrusive)
    - 6a (Dunite)
    - 6b (Peridotite)
    - 6c (Dikocrystic Pyroxenite)
    - 6d (Pyroxenite)
    - 6e (Ultramafic Schist)
    - 6f (Norite)
  - 7 (Undivided Mafic Intrusive)
    - 7a (Gabbronorite)
    - 7b (Diorite)
  - 8 (Dyke)
    - 8a (Dolerite)
    - 8b (Lamprophyre)
    - 8c (Pegmatite)
    - 8d (Aplite)
    - 8e (Pyroxenite)
    - 8f (Aphanitic UM Dyke)
  - C (Casing)
  - EOH (End of Hole)
  - MS (MASSIVE SULPHIDE (>75%))

-10 0 10 20 30 40

Scale 1:500

Borehole EM

- In hole
- Off hole
- In hole edge

MAP 3

ESPEDALEN PROJECT - NORWAY

Sulfidmalm A/S

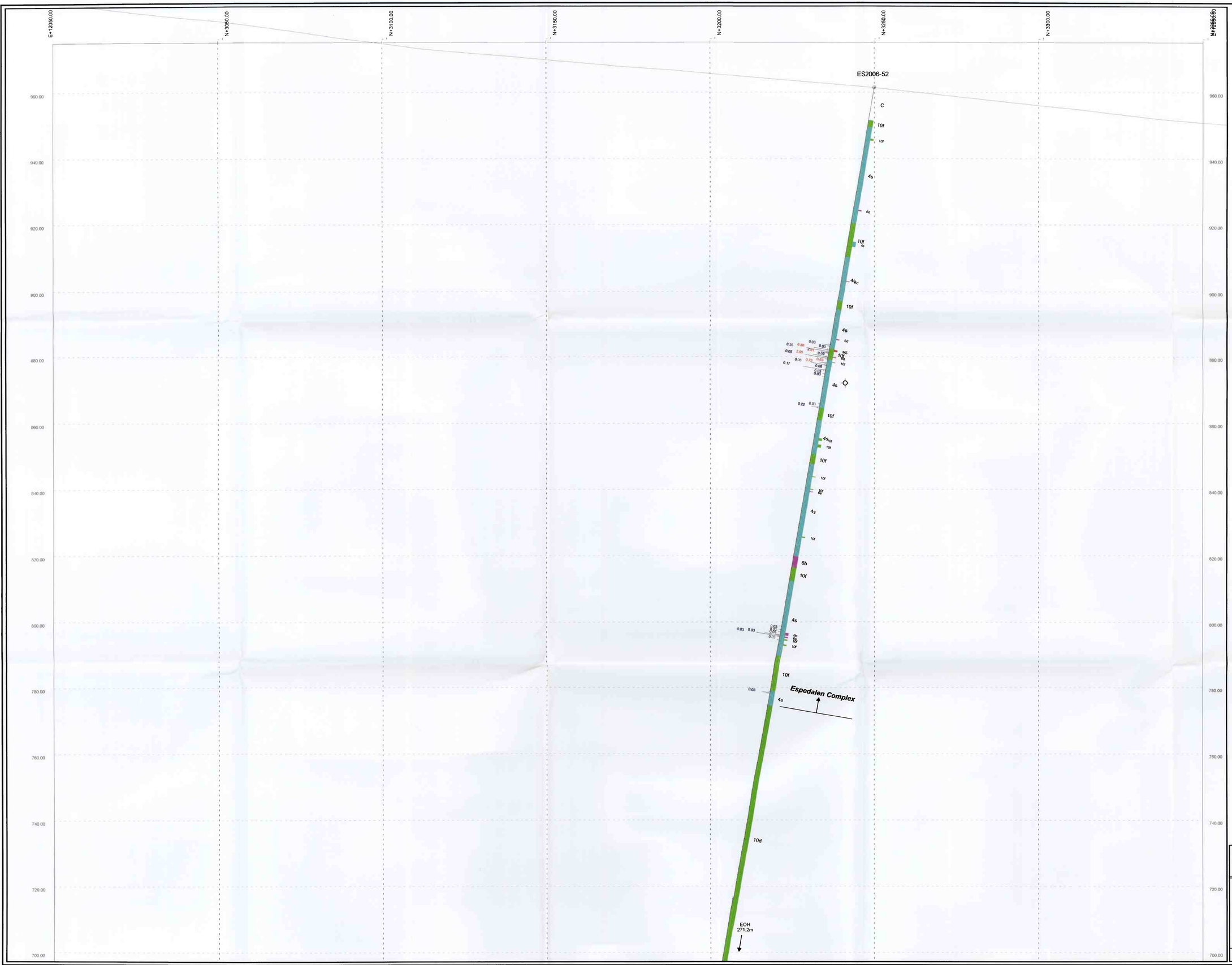
Section L11850E

(looking grid west)

ES2006-51

Drillhole with Nickel Assay % (Ni > 0.5 in Red) on Left, Major and Minor Lithology on Right

Date: September 2006 | Approved: P.Tirschmann



Major and Minor Lithogy Descriptions

- ROCK TYPES (All Rock Types)
  - 1 (Jotunite)
  - 10 (Mafic Metavolcanic)
    - 10a (Massive flows)
    - 10b (Pillowed flows)
    - 10c (Tuffs)
    - 10d (Volcaniclastics)
    - 10e (Metavolcanic Schists)
    - 10f (Mafic dykes)
  - 11 (Intermediate Metavolcanics)
    - 11a (Massive Flows)
    - 11b (Tuffs)
    - 11c (Volcaniclastics)
    - 11d (Metavolcanic Schists)
    - 11e (Intermediate dykes)
  - 12 (Felsic Metavolcanics)
    - 12a (Massive Flows)
    - 12b (Tuffs)
    - 12c (Volcaniclastics)
    - 12d (Metavolcanic Schists)
    - 12e (Felsic dykes)
  - 2 (Charnockite)
  - 3 (Granitic Augen Gneiss)
  - 4 (Anorthosite / Anorthositic Gabbro)
    - 4s (Sausseritized/Tectonized Anorthosite)
  - 5 (Undivided Metasediments)
    - 5a (Siliceous Metasediments)
    - 5b (Pelitic Metasediments)
  - 6 (Undivided Ultramafic Intrusive)
    - 6a (Dunite)
    - 6b (Peridotite)
    - 6c (Olikocrystic Pyroxenite)
    - 6d (Pyroxenite)
    - 6e (Ultramafic Schist)
    - 6f (Norite)
  - 7 (Undivided Matic Intrusive)
    - 7a (Gabbronorite)
    - 7b (Diorite)
  - 8 (Dyke)
    - 8a (Dolerite)
    - 8b (Lamprophyre)
    - 8c (Pegmatite)
    - 8d (Aplite)
    - 8e (Pyroxenite)
    - 8f (Aphanitic UM Dyke)
  - C (Casing)
  - EOH (End of Hole)
  - MS (MASSIVE SULPHIDE (>75%))

-10 0 10 20 30 40

Scale 1:500

Borehole EM

- In hole
- Off hole
- In hole edge

MAP 4

ESPEDALEN PROJECT - NORWAY

Sulfidmalm A/S

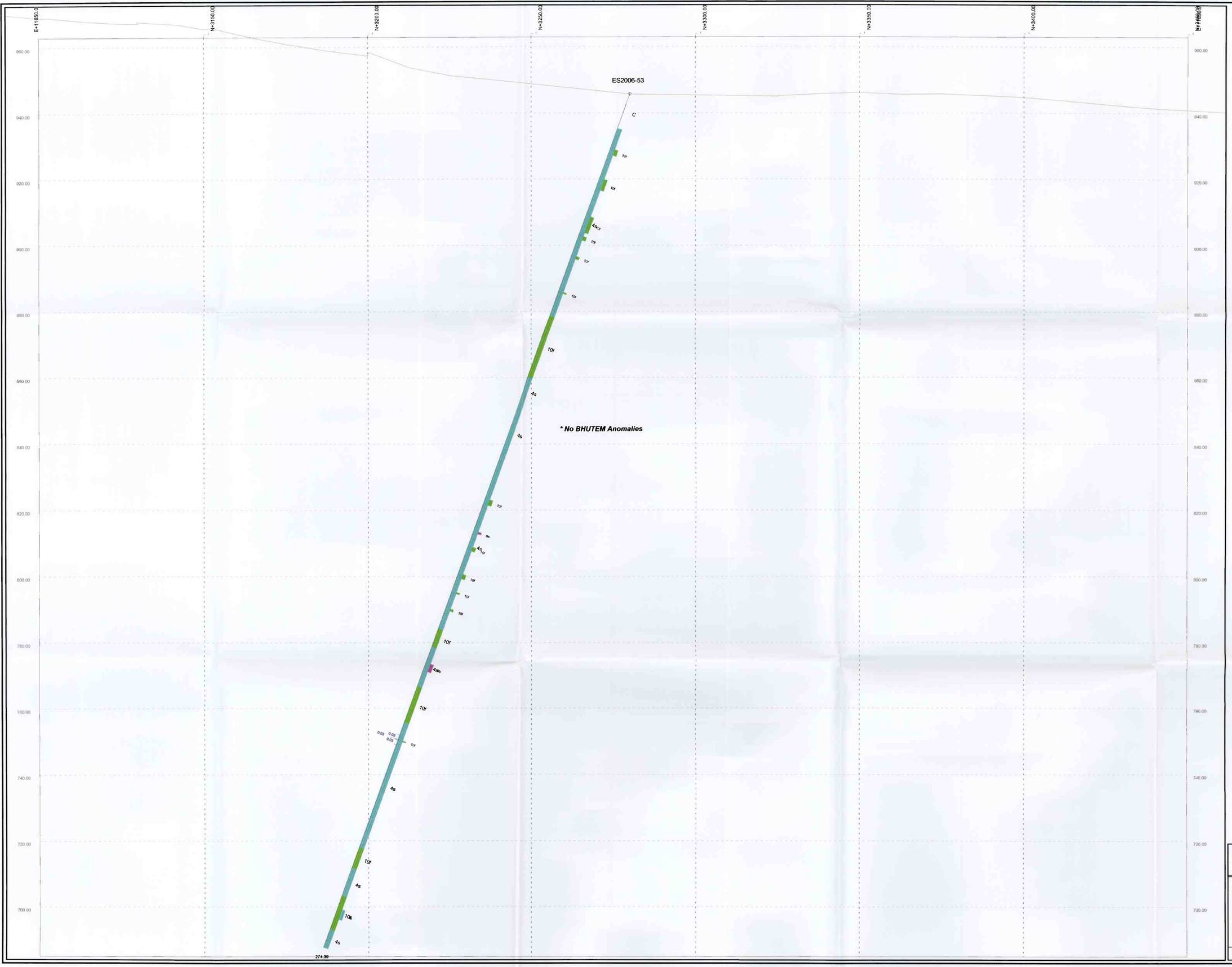
Section L12050E

(looking grid west)

ES2006-52

Drillhole with Nickel Assay % (Ni > 0.5 in Red) on Left, Major and Minor Lithology on Right

Date: September 2006	Approved: P.Tirschmann



Major and Minor Lithogy Descriptions

- ROCK TYPES (All Rock Types)
  - 1 (Joturite)
  - 10 (Mafic Metavolcanic)
    - 10a (Massive flows)
    - 10b (Pillowed flows)
    - 10c (Tuffs)
    - 10d (Volcaniclastics)
    - 10e (Metavolcanic Schists)
    - 10f (Mafic dykes)
  - 11 (Intermediate Metavolcanics)
    - 11a (Massive Flows)
    - 11b (Tuffs)
    - 11c (Volcaniclastics)
    - 11d (Metavolcanic Schists)
    - 11e (Intermediate dykes)
  - 12 (Felsic Metavolcanics)
    - 12a (Massive Flows)
    - 12b (Tuffs)
    - 12c (Volcaniclastics)
    - 12d (Metavolcanic Schists)
    - 12e (Felsic dykes)
  - 2 (Charnockite)
  - 3 (Granitic Augen Gneiss)
  - 4 (Anorthosite / Anorthositic Gabbro)
    - 4s (Saussenitized/Tectonized Anorthosite)
  - 5 (Undivided Metasediments)
    - 5a (Siliceous Metasediments)
    - 5b (Pelitic Metasediments)
  - 6 (Undivided Ultramafic Intrusive)
    - 6a (Dunite)
    - 6b (Peridotite)
    - 6c (Olikocrystic Pyroxenite)
    - 6d (Pyroxenite)
    - 6e (Ultramafic Schist)
    - 6f (Norite)
  - 7 (Undivided Mafic Intrusive)
    - 7a (Gabbronorite)
    - 7b (Diorite)
  - 8 (Dyke)
    - 8a (Dolerite)
    - 8b (Lamprophyre)
    - 8c (Pegmatite)
    - 8d (Aplite)
    - 8e (Pyroxenite)
    - 8f (Aphanitic UM Dyke)
  - C (Casing)
  - EOH (End of Hole)
  - MS (MASSIVE SULPHIDE (>75%))

-10 0 10 20 30 40

Scale 1:500

Borehole EM

- In hole
- Off hole
- In hole edge

MAP 5

ESPEDALEN PROJECT - NORWAY

Sulfidmalm A/S

Section L11650E

(looking grid west)

ES2006-53

Drillhole with Nickel Assay % (Ni > 0.5 in Red) on Left, Major and Minor Lithology on Right

Date: September 2006	Approved: P.Tirschmann

E+11450.00 N+3050.00 N+3100.00 N+3150.00 N+3200.00 N+3250.00 N+3300.00 N+3350.00

980.00 960.00 940.00 920.00 900.00 880.00 860.00 840.00 820.00 800.00 780.00 760.00 740.00 720.00

ES2006-54

C
4s
10f
6b
10f
4s
10x
10x
4s
10x
10x
10x
10x
10x
6d
8a
4s
10d

247.90

Espedalen Complex

* No BHUTEM Anomalies

Major and Minor Lithogy Descriptions

- ROCK TYPES (All Rock Types)
  - 1 (Jotunite)
  - 10 (Mafic Metavolcanic)
    - 10a (Massive flows)
    - 10b (Pillowed flows)
    - 10c (Tuffs)
    - 10d (Volcaniclastics)
    - 10e (Metavolcanic Schists)
    - 10f (Mafic dykes)
  - 11 (Intermediate Metavolcanics)
    - 11a (Massive Flows)
    - 11b (Tuffs)
    - 11c (Volcaniclastics)
    - 11d (Metavolcanic Schists)
    - 11e (Intermediate dykes)
  - 12 (Felsic Metavolcanics)
    - 12a (Massive Flows)
    - 12b (Tuffs)
    - 12c (Volcaniclastics)
    - 12d (Metavolcanic Schists)
    - 12e (Felsic dykes)
  - 2 (Charnockite)
  - 3 (Granitic Augen Gneiss)
  - 4 (Anorthosite / Anorthositic Gabbro)
    - 4s (Saussuritized/Tectonized Anorthosite)
  - 5 (Undivided Metasediments)
    - 5a (Siliceous Metasediments)
    - 5b (Pelitic Metasediments)
  - 6 (Undivided Ultramafic Intrusive)
    - 6a (Dunite)
    - 6b (Peridotite)
    - 6c (Olivocystic Pyroxenite)
    - 6d (Pyroxenite)
    - 6e (Ultramafic Schist)
    - 6f (Norite)
  - 7 (Undivided Mafic Intrusive)
    - 7a (Gabbronorite)
    - 7b (Diorite)
  - 8 (Dyke)
    - 8a (Dolerite)
    - 8b (Lamprophyre)
    - 8c (Pegmatite)
    - 8d (Aplite)
    - 8e (Pyroxenite)
    - 8f (Aphanitic UM Dyke)
  - C (Casing)
  - EOH (End of Hole)
  - MS (MASSIVE SULPHIDE (>75%))

-10 0 10 20 30 40

Scale 1:500

Borehole EM

- In hole
- Off hole
- In hole edge

MAP 6

ESPEDALEN PROJECT - NORWAY

Sulfidmalm A/S

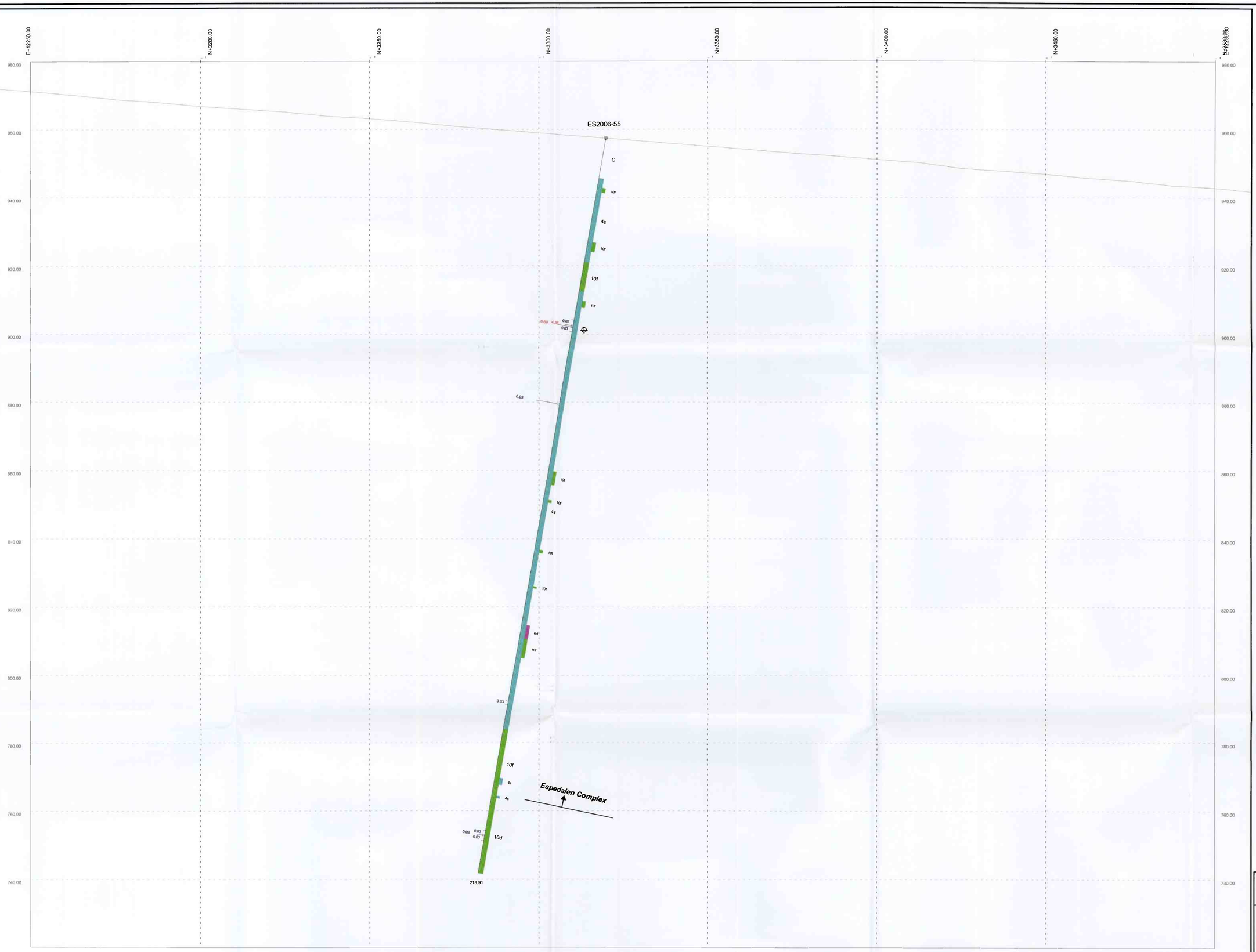
Section L11450E

(looking grid west)

ES2006-54

Drillhole with Nickel Assay % (Ni > 0.5 in Red) on Left,
Major and Minor Lithology on Right

Date: September 2006	Approved: P.Tirschmann



Major and Minor Lithogy Descriptions

- ROCK TYPES (All Rock Types)
  - 1 (Jotunite)
  - 10 (Mafic Metavolcanic)
    - 10a (Massive flows)
    - 10b (Pillowed flows)
    - 10c (Tuffs)
    - 10d (Volcaniclastics)
    - 10e (Metavolcanic Schists)
    - 10f (Mafic dykes)
  - 11 (Intermediate Metavolcanics)
    - 11a (Massive Flows)
    - 11b (Tuffs)
    - 11c (Volcaniclastics)
    - 11d (Metavolcanic Schists)
    - 11e (Intermediate dykes)
  - 12 (Felsic Metavolcanics)
    - 12a (Massive Flows)
    - 12b (Tuffs)
    - 12c (Volcaniclastics)
    - 12d (Metavolcanic Schists)
    - 12e (Felsic dykes)
  - 2 (Charnockite)
  - 3 (Granitic Augen Gneiss)
  - 4 (Anorthosite / Anorthositic Gabbro)
    - 4s (Saussuritized/Tectonized Anorthosite)
  - 5 (Undivided Metasediments)
    - 5a (Siliceous Metasediments)
    - 5b (Pelitic Metasediments)
  - 6 (Undivided Ultramafic Intrusive)
    - 6a (Dunite)
    - 6b (Peridotite)
    - 6c (Oikocrystic Pyroxenite)
    - 6d (Pyroxenite)
    - 6e (Ultramafic Schist)
    - 6f (Norite)
  - 7 (Undivided Mafic Intrusive)
    - 7a (Gabbronorite)
    - 7b (Diorite)
  - 8 (Dyke)
    - 8a (Dolerite)
    - 8b (Lamprophyre)
    - 8c (Pegmatite)
    - 8d (Aplite)
    - 8e (Pyroxenite)
    - 8f (Aphanitic UM Dyke)
  - C (Casing)
  - EOH (End of Hole)
  - MS (MASSIVE SULPHIDE (>75%))

-10 0 10 20 30 40

Scale 1:500

Borehole EM

- In hole
- Off hole
- In hole edge

MAP 7

ESPEDALEN PROJECT - NORWAY

Sulfidmalm A/S

Section L12250E

(looking grid west)

ES2006-55

Drillhole with Nickel Assay % (Ni > 0.5 in Red) on Left,
Major and Minor Lithology on Right

Date: September 2006 | Approved: P.Tirschmann