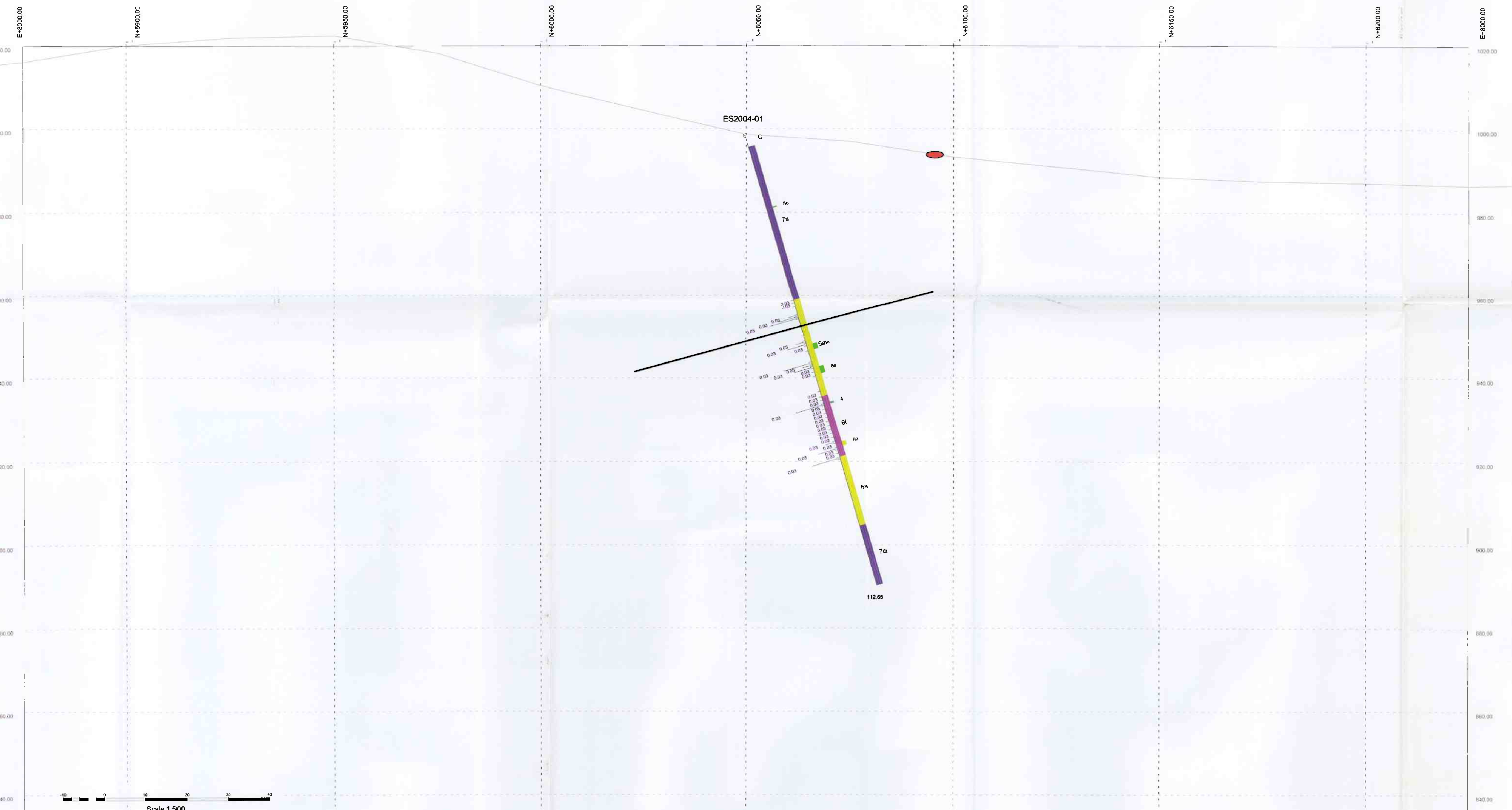
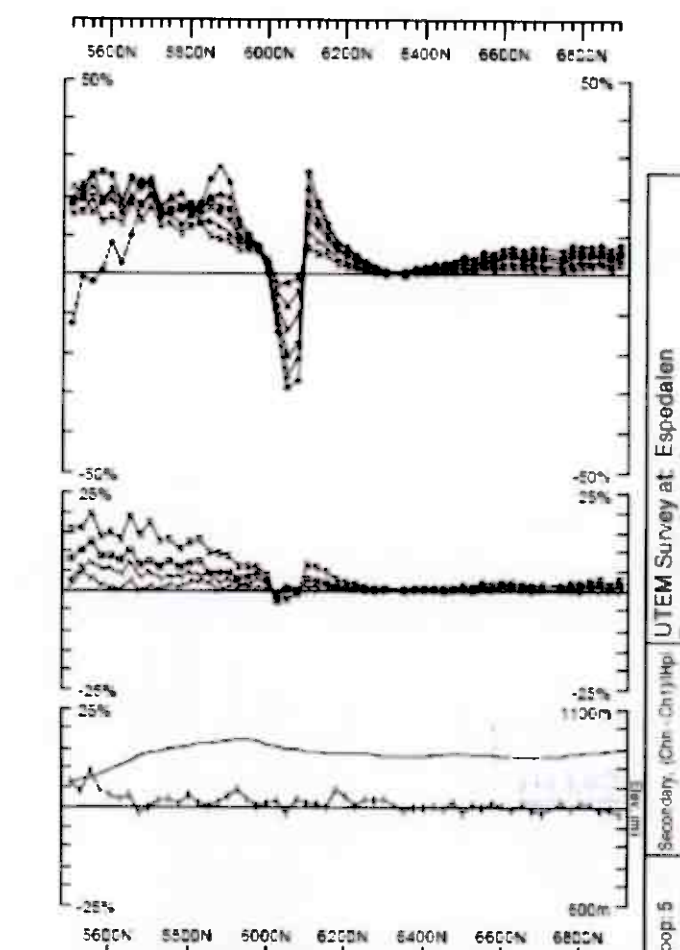
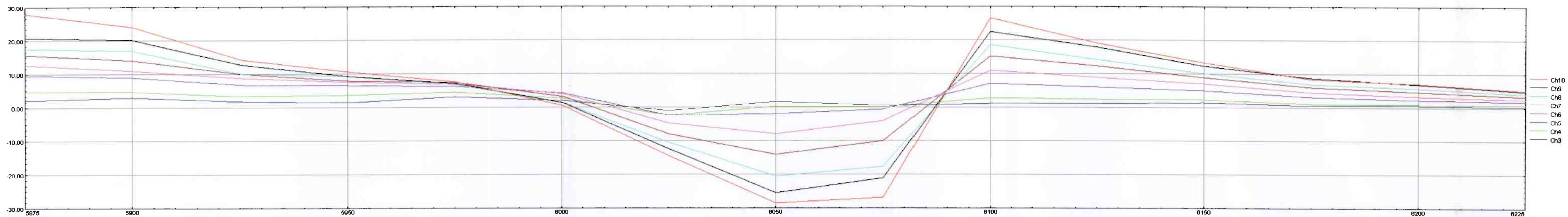




Bergvesenet rapport nr 4826	Intern Journal nr 2159/05	Internt arkiv nr	Rapport lokalisering	Gradering Fortrolig
Kommer fra ..arkiv	Ekstern rapport nr	Oversendt fra Sulfidmalm a.s.	Fortrolig pga Muting	Fortrolig fra dato:
Tittel 2004-2005 Drilling Programs, Espedalen Prosject Summerdrilling 2004, Winter drilling 2005 at Stormyra and summerdrilling 2005 Storgruva-Trona-Vesle. Kartvedlegg til rapport BV 4823				
Forfatter Tirschmann, Patti Blair, Tony		Dato År 07.12 2005	Bedrift (Oppdragsgiver og/eller oppdragstaker) Sulfidmalm A/S	
Kommune Sør-Fron Gausdal	Fylke Oppland	Bergdistrikt	1: 50 000 kartblad 17171 17172	1: 250 000 kartblad Lillehammer
Fagområde Boring	Dokument type	Forekomster (forekomst, gruvefelt, undersøkelsesfelt) Stormyra Vesle Andreasberg Jorstad Storgruva Evans Statsråd Stang Nicoline Melgårdseter Stylskampen Søndre Gråhø Grimstjønnå Dalen		
Råstoffgruppe Malm/metall	Råstofftype Cu Ni			
Sammendrag, innholdsfortegnelse eller innholdsbeskrivelse Inneholder kartvedlegg til rapport BV 4823				

L8000E UTEM Profiles



Major and Minor Lithology Descriptions

- 1 (Jokune)
- 10 (Mafic Metavolcanic)
 - 10a (Massive Flows)
 - 10b (Flowed Flows)
 - 10c (Tuffs)
 - 10d (Volcaniclastic)
 - 10e (Metavolcanic Schists)
 - 10f (Mafic dykes)
- 11 (Intermediate Metavolcanics)
 - 11a (Massive Flows)
 - 11b (Tuffs)
 - 11c (Volcaniclastic)
 - 11d (Metavolcanic Schists)
 - 11e (Intermediate dykes)
- 12 (Felsic Metavolcanics)
 - 12a (Massive Flows)
 - 12b (Tuffs)
 - 12c (Volcaniclastic)
 - 12d (Metavolcanic Schists)
 - 12e (Felsic dykes)
- 2 (Chondrite)
- 3 (Granitic Augen Gneiss)
- 4 (Anorthosite / Anorthositic Gabbro)
 - 4a (Saussuritized / Tectonized Anorthosite)
- 5 (Undivided Metasediments)
 - 5a (Siliceous Metasediments)
 - 5b (Felsic Metasediments)
- 6 (Undivided Ultramafic Intrusive)
 - 6a (Dunite)
 - 6b (Pseudotuff)
 - 6c (Olivoclastic Pyroxenite)
 - 6d (Pyroxenite)
 - 6e (Ultramafic Schist)
 - 6f (Norite)
- 7 (Undivided Mafic Intrusive)
 - 7a (Gabbro-norite)
 - 7b (Diorite)
- 8 (Dyke)
 - 8a (Dolerite)
 - 8b (Lamprophyre)
 - 8c (Pegmatite)
 - 8d (Apikite)
 - 8e (Pyroxenite)
 - 8f (Aphanitic UM Dyke)
- C (Casing)
- EOH (End of Hole)
- MS (MASSIVE SULPHIDE (>75%))

UTEM Conductor

UTEM Plate

Borehole EM

- In hole
- Off hole
- In hole edge

ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

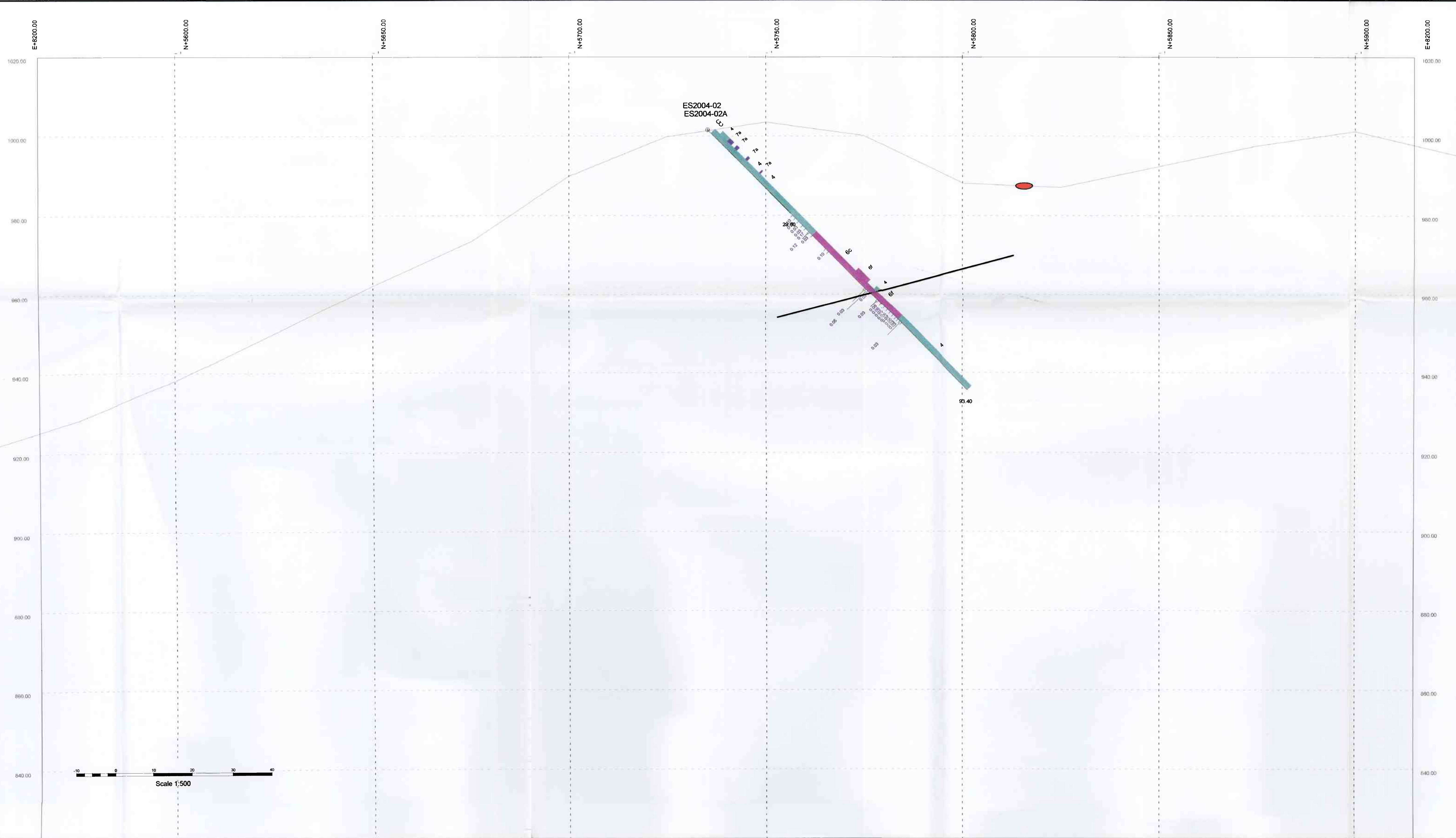
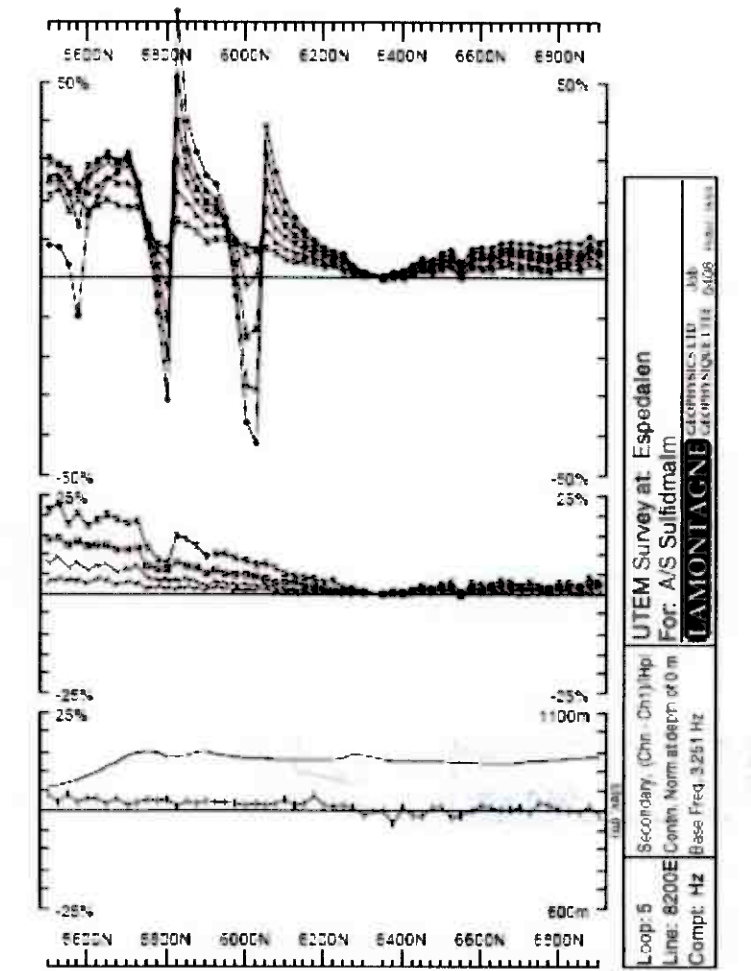
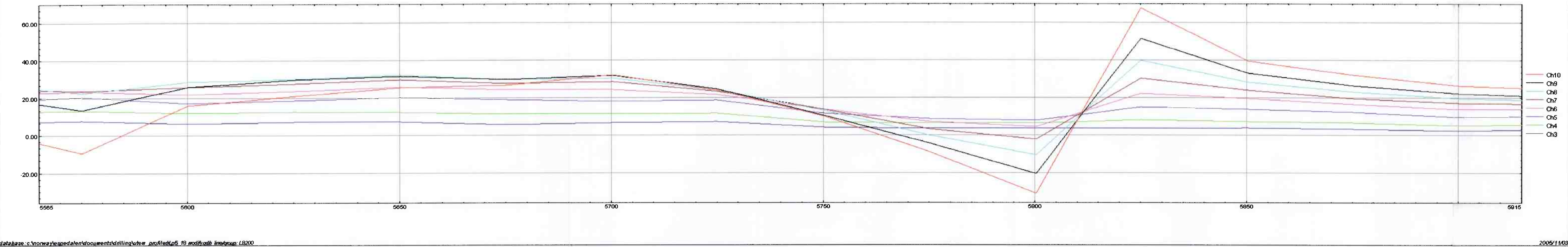
Section L8000E
(looking grid west)
ES2004-01

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

Date: November 2005.

Approved: P.Tirschmann

L8200E UTEM Profiles



Major and Minor Lithology Descriptions

- 1 (Iolite)
- 10 (Mafic Metavolcanic)
- 10a (Massive Flows)
- 10b (Flowed Flows)
- 10c (Tuffs)
- 10d (Volcaniclastic)
- 10e (Metavolcanic Schists)
- 10f (Mafic dykes)
- 11 (Intermediate Metavolcanics)
- 11a (Massive Flows)
- 11b (Tuffs)
- 11c (Volcaniclastic)
- 11d (Metavolcanic Schists)
- 11e (Intermediate dykes)
- 12 (Felsic Metavolcanics)
- 12a (Massive Flows)
- 12b (Tuffs)
- 12c (Volcaniclastic)
- 12d (Metavolcanic Schists)
- 12e (Felsic dykes)
- 2 (Charnokite)
- 3 (Granitic Augen Gneiss)
- 4 (Anorthosite / Anorthositic Gabbro)
- 4a (Sassanitized / Fecundized Anorthosite)
- 5 (Undivided Metasediments)
- 5a (Siliceous Metasediments)
- 5b (Felsic Metasediments)
- 6 (Undivided Ultramafic Intrusive)
- 6a (Diorite)
- 6b (Peridotite)
- 6c (Oikocystic Pyroxenite)
- 6d (Pyroxenite)
- 6e (Ultramafic Schist)
- 6f (Norite)
- 7 (Undivided Mafic Intrusive)
- 7a (Gabbro-norite)
- 7b (Diorite)
- 8 (Dyke)
- 8a (Diorite)
- 8b (Lamprophyre)
- 8c (Pegmatite)
- 8d (Applite)
- 8e (Pyroxenite)
- 8f (Aphanitic UM Dyke)
- C (Coarse)
- EDM (End of Hole)
- MS (MASSIVE SULPHIDE >75%)

UTEM Conductor

UTEM Plate

Borehole EM

- In hole
- Off hole
- In hole edge

VEDLEGG
J.N. 2159/05

MAP 2

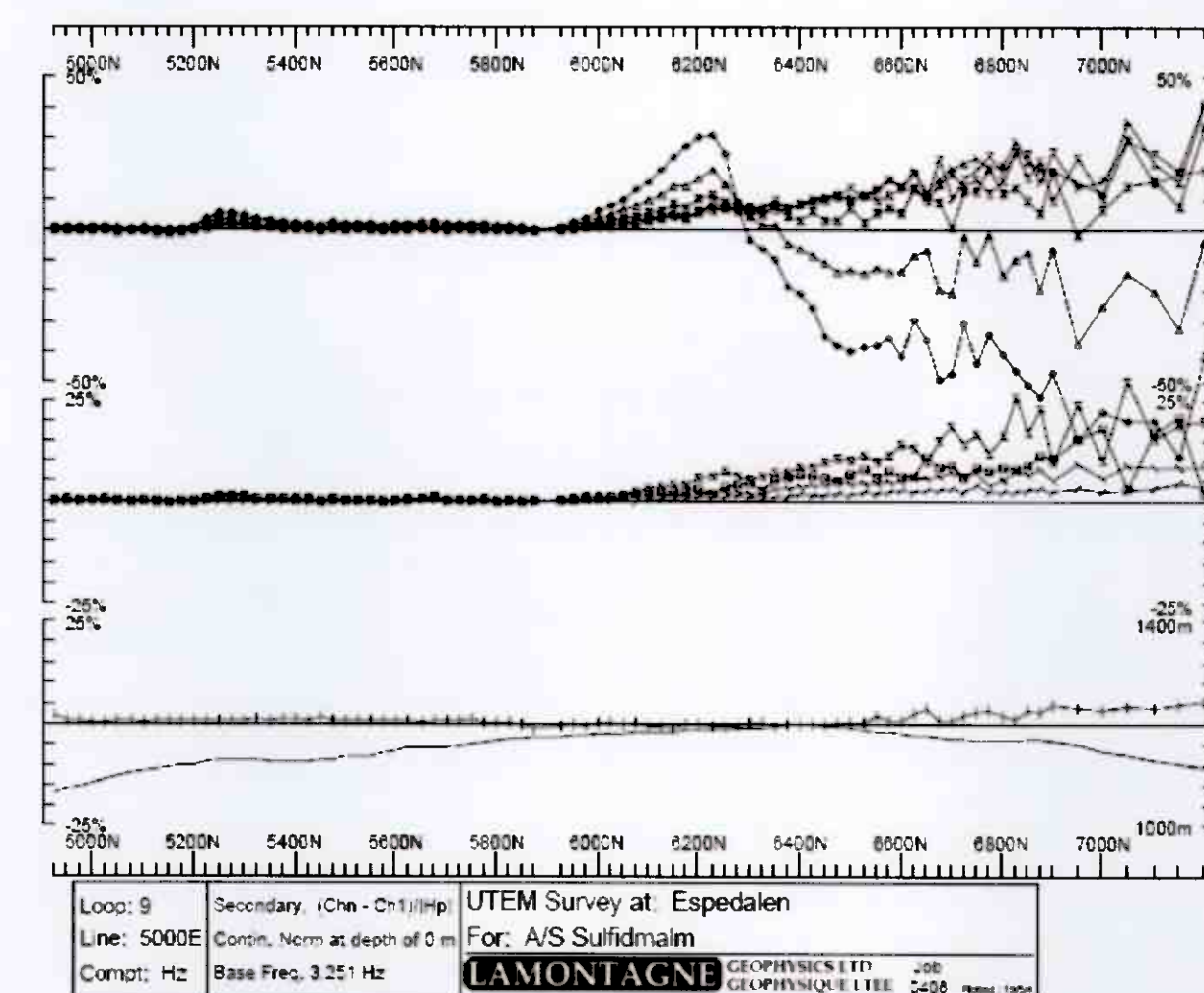
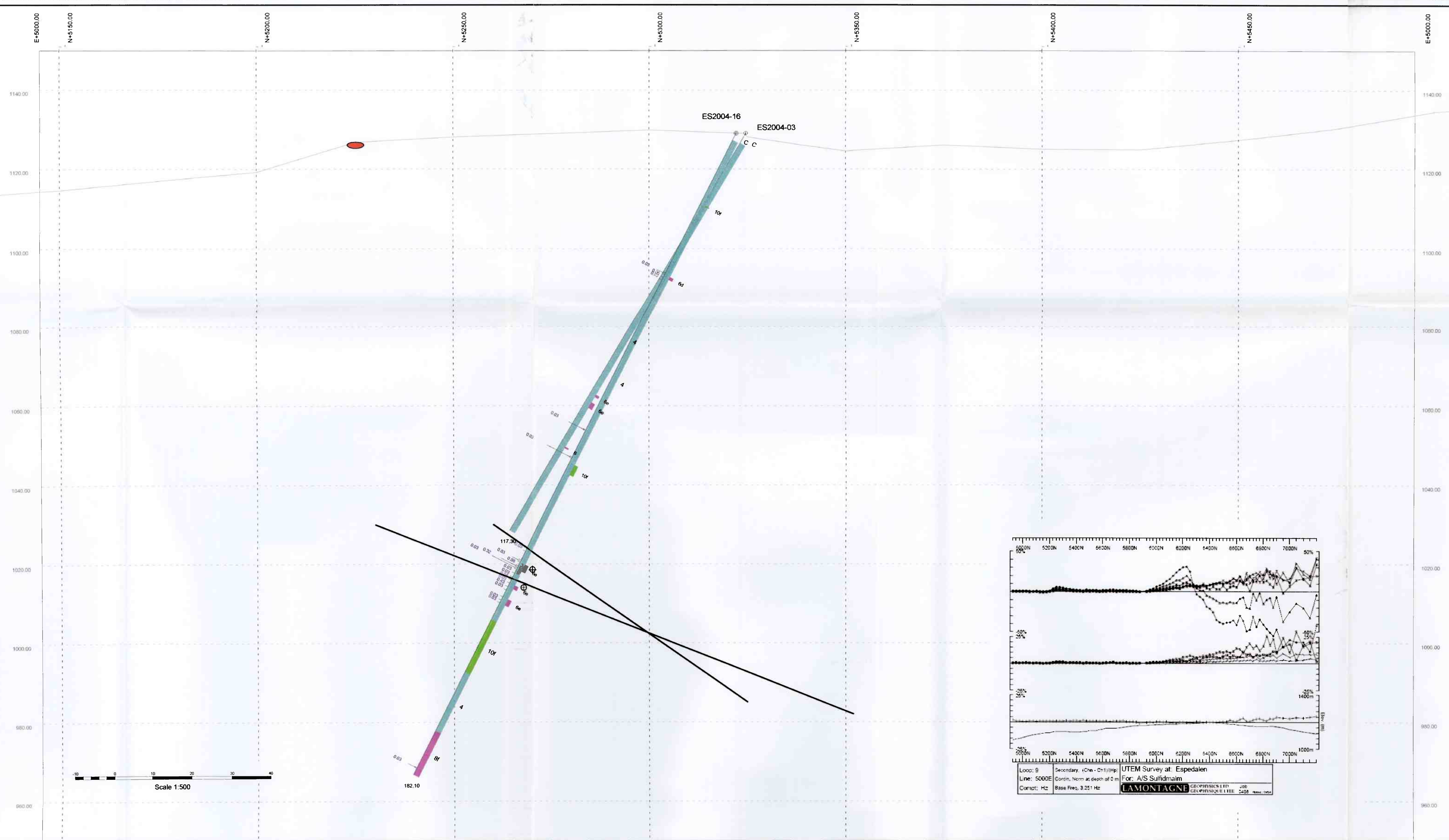
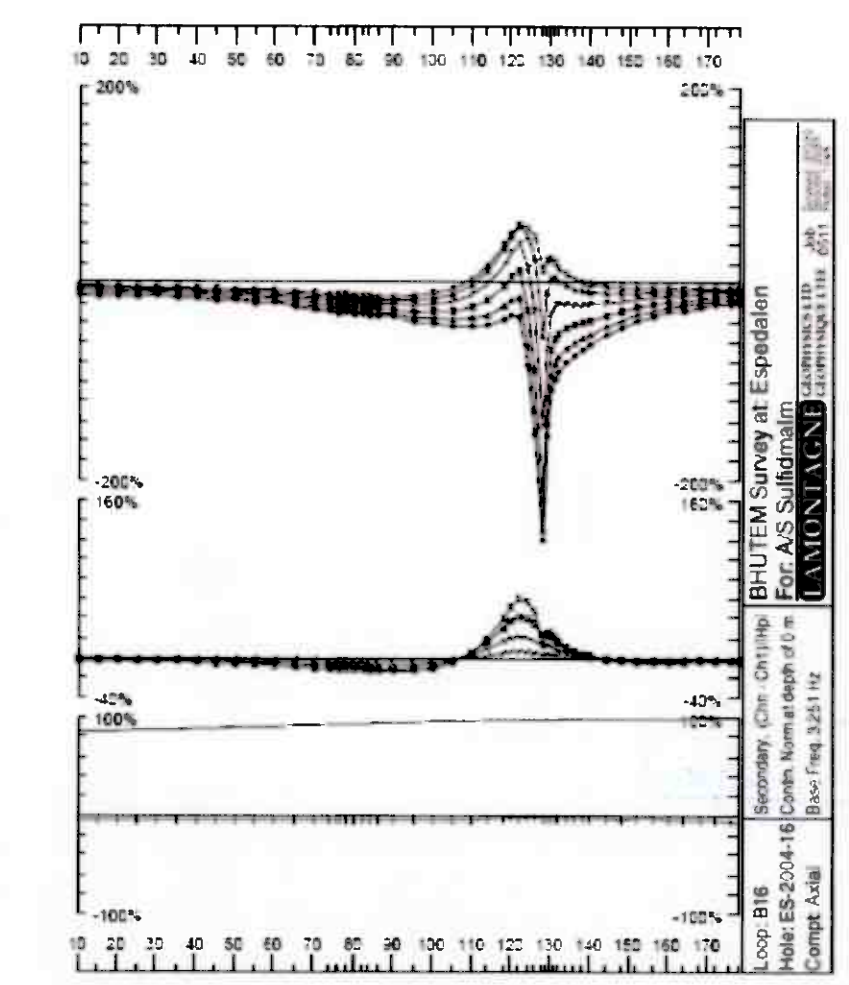
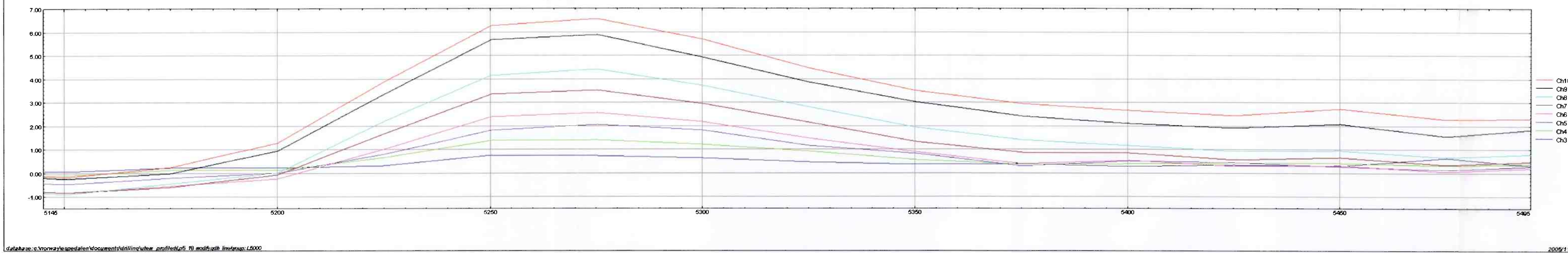
ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

Section L8200E
(looking grid west)
ES2004-02 and -02A

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

Date: November 2005. Approved: P.Tirschmann

L5000E UTEM Profiles



- ### Major and Minor Lithology Descriptions

- 1 (Jotunite)
- 10 (Mafic Metavolcanic)
 - 10a (Massive Flow)
 - 10b (Pillowed Flow)
 - 10c (Tuff)
 - 10d (Volcaniclastics)
 - 10e (Metavolcanic Schists)
 - 10f (Mafic dykes)
- 11 (Intermediate Metavolcanics)
 - 11a (Massive Flows)
 - 11b (Tuff)
 - 11c (Volcaniclastics)
 - 11d (Metavolcanic Schists)
 - 11e (Intermediate dykes)
- 12 (Felsic Metavolcanics)
 - 12a (Massive Flows)
 - 12b (Tuff)
 - 12c (Volcaniclastics)
 - 12d (Metavolcanic Schists)
 - 12e (Felsic dykes)
- 2 (Charnockite)
- 3 (Gneissic Augen Gneiss)
- 4 (Anorthositic / Anorthositic Gabbro)
 - 4a (Sausuritized / Textonized Anorthositic)
- 5 (Undivided Metasediments)
 - 5a (Sclerosed Metasediments)
 - 5b (Felsic Metasediments)
- 6 (Undivided Ultramafic Intrusive)
 - 6a (Dunite)
 - 6b (Peridotite)
 - 6c (Diktycystic Pyroxenite)
 - 6d (Pyroxenite)
 - 6e (Ultramafic Schist)
 - 6f (Norite)
- 7 (Undivided Mafic Intrusive)
 - 7a (Gabbrotonite)
 - 7b (Norite)
- 8 (Dyke)
 - 8a (Dolerite)
 - 8b (Lamprophyre)
 - 8c (Pegmatite)
 - 8d (Apilite)
 - 8e (Pyroxenite)
 - 8f (Aphanitic UM Dyke)
- ☐ C (Casing)
- ☐ EDH (End of Hole)
- ☒ MS (MASSIVE SULPHIDE (>75%))

UTEM Conductor

UTEM Plate

Borehole EM

-  **In hole**
-  **Off hole**
-  **In hole edge**

VIDEOLOG.....IN.....
JUL 21 59/05

MAP 3

ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

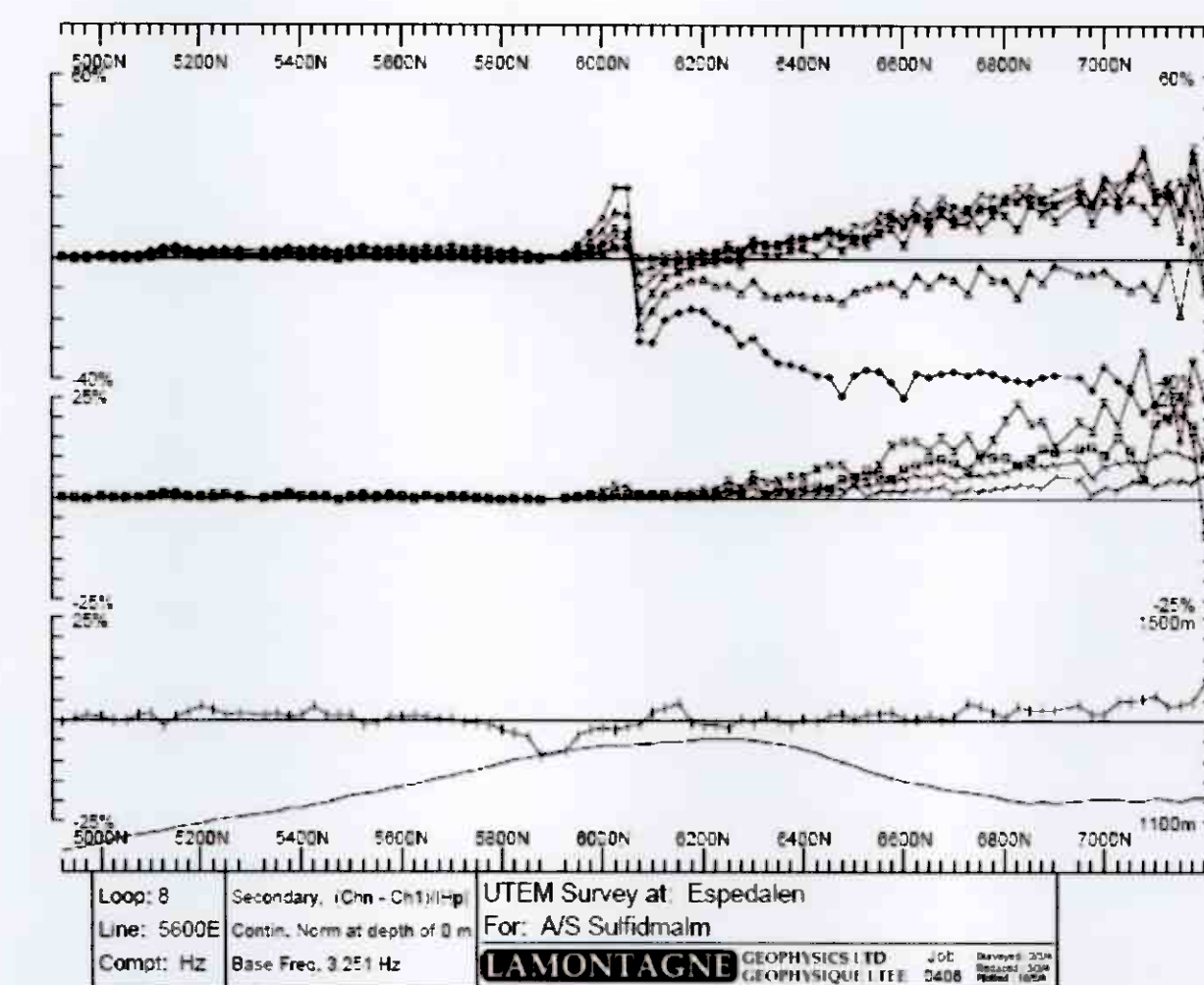
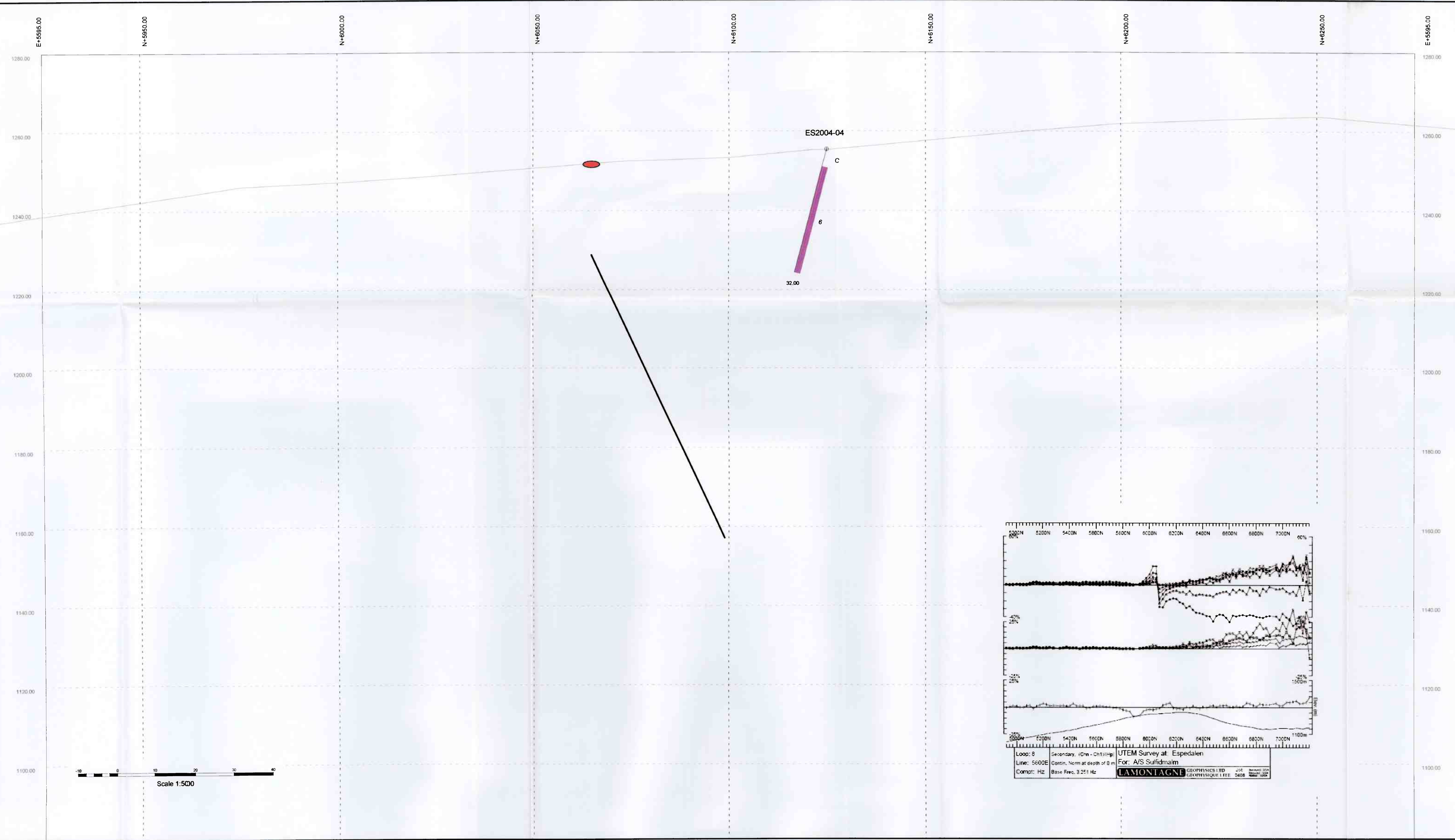
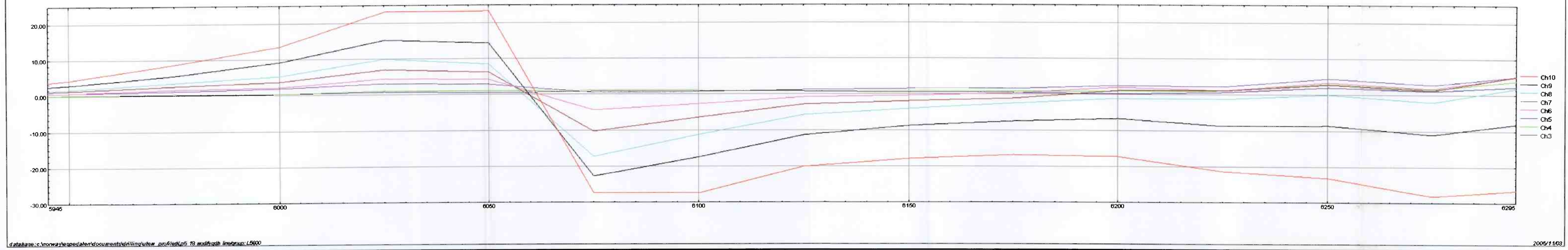
Section L5000E
(looking grid west)
ES2004-03 and 16

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

Date: November 2005.

Approved: P.Tirschmann

L5600E UTEM Profiles



Major and Minor Lithology Descriptions

- 1 (Gabbro)
- 10 (Mafic Metavolcanic)
- 10a (Massive flows)
- 10b (Pillow flows)
- 10c (Tuffs)
- 10d (Volcaniclastic)
- 10e (Metavolcanic Schists)
- 10f (Mafic dykes)
- 11 (Intermediate Metavolcanic)
- 11a (Massive flows)
- 11b (Tuffs)
- 11c (Volcaniclastic)
- 11d (Metavolcanic Schists)
- 11e (Intermediate dykes)
- 12 (Felsic Metavolcanic)
- 12a (Massive flows)
- 12b (Tuffs)
- 12c (Volcaniclastic)
- 12d (Metavolcanic Schists)
- 12e (Felsic dykes)
- 2 (Charnokite)
- 3 (Granitic Augen Gneiss)
- 4 (Apatite / Anorthositic Gabbro)
- 4a (Sausenized/Texturized Anorthositic)
- 5 (Undivided Metasediments)
- 5a (Siliceous Metasediments)
- 5b (Pelitic Metasediments)
- 6 (Undivided Ultramafic Intrusive)
- 6a (Dunite)
- 6b (Peridotite)
- 6c (Olivoclastic Pyroxenite)
- 6d (Pyroxenite)
- 6e (Ultramafic Schist)
- 6f (Korite)
- 7 (Undivided Mafic Intrusive)
- 7a (Gabbroic)
- 7b (Diorite)
- 8 (Dyke)
- 8a (Dolerite)
- 8b (Lamprophyre)
- 8c (Pegmatite)
- 8d (Applite)
- 8e (Pyroxenite)
- 8f (Aphanitic UM Dyke)
- C (Casing)
- EOH (End of Hole)
- MS (MASSIVE SULPHIDE >75%)

UTEM Conductor

UTEM Plate

Borehole EM

- ⊕ In hole
- ⊖ Off hole
- ⊙ In hole edge

ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

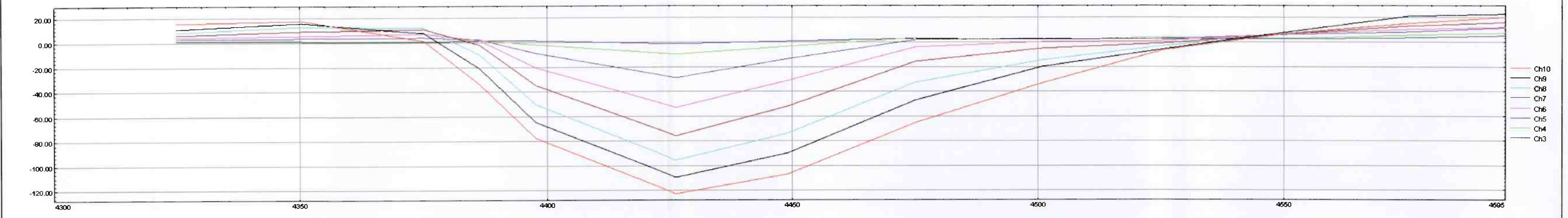
Section L5600E
(looking grid west)
ES2004-04

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

Date: November 2005.

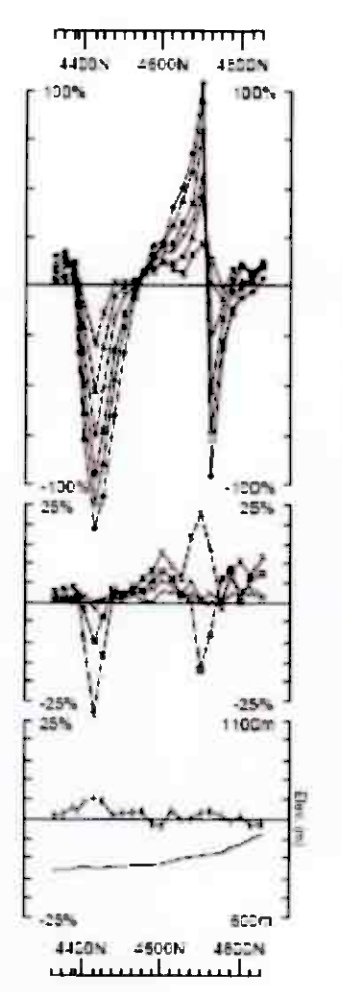
Approved: P.Tirschmann

L7700E UTEM Profiles

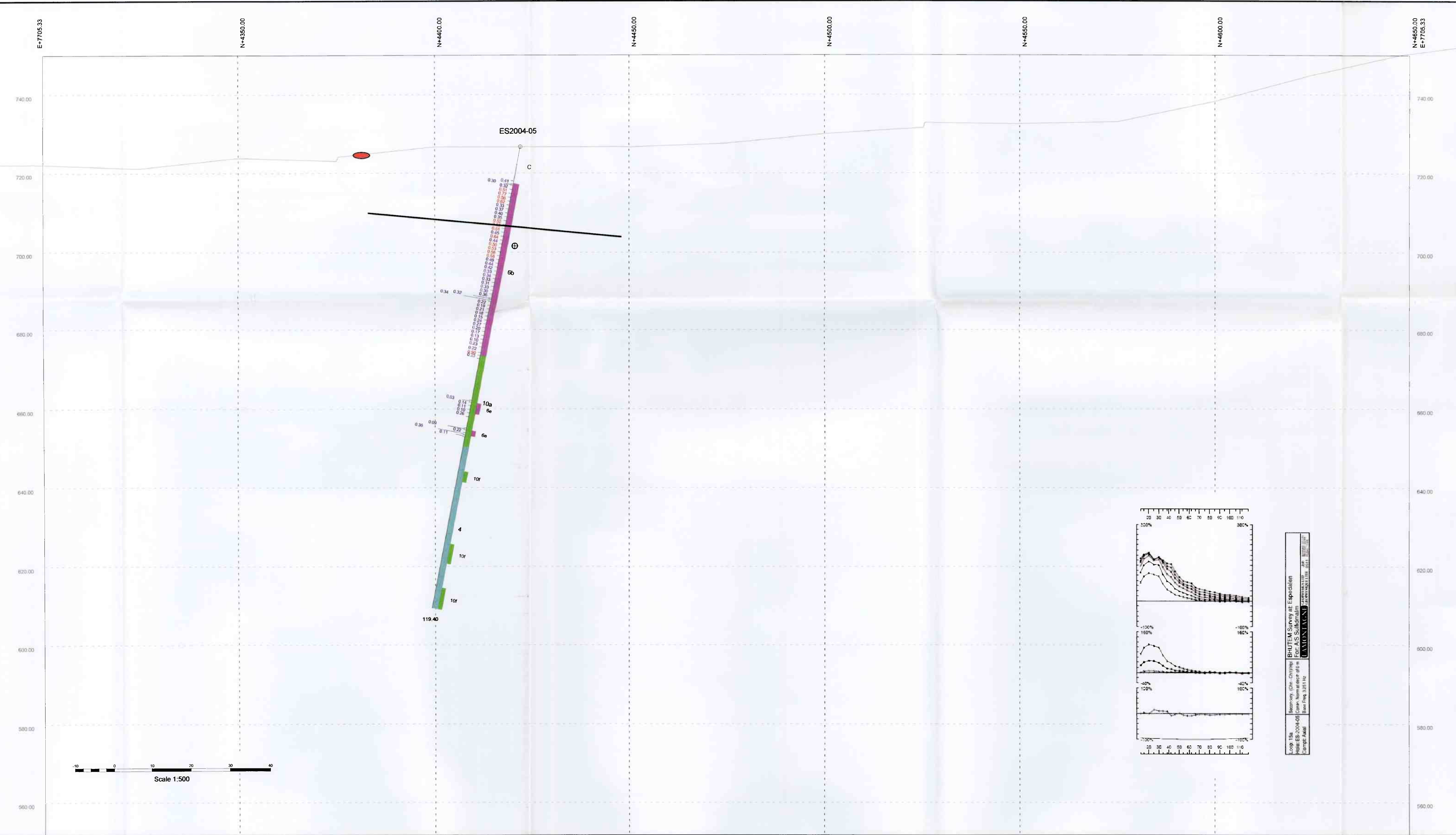


Database: c:\norway\espedalen\documents\drilling\hole_ profile\p5_16 and p5b_16.mxd; L7700

2005/11/03



Loop 11a
Borehole: Ch3 (11a)
Loop: ES-2004-05
Date: 27/05/05
Comp: 14
Scale: 1:500
Loop 11a
Borehole: Ch3 (11a)
Loop: ES-2004-05
Date: 27/05/05
Comp: 14
Scale: 1:500



Major and Minor Lithology Descriptions

- 1 (Jotunite)
- 10 (Mafic Metavolcanic)
- 10a (Massive flows)
- 10b (Pillow flows)
- 10c (Tuffs)
- 10d (Volcaniclastic)
- 10e (Metavolcanic Schists)
- 10f (Mafic dykes)
- 11 (Intermediate Metavolcanic)
- 11a (Massive Flows)
- 11b (Tuffs)
- 11c (Volcaniclastic)
- 11d (Metavolcanic Schists)
- 11e (Intermediate dykes)
- 12 (Felsic Metavolcanic)
- 12a (Massive Flows)
- 12b (Tuffs)
- 12c (Volcaniclastic)
- 12d (Metavolcanic Schists)
- 12e (Felsic dykes)
- 2 (Charnokite)
- 3 (Granitic Augen Gneiss)
- 4 (Anorthosite / Anorthositic Gabbro)
- 4s (Sausenitized / ecitonized Anorthosite)
- 5 (Undivided Metasediments)
- 5a (Siliceous Metasediments)
- 5b (Pelite Metasediments)
- 6 (Undivided Ultramafic Intrusive)
- 6a (Dunite)
- 6b (Peridotite)
- 6c (Oikocystic Pyroxenite)
- 6d (Pyroxenite)
- 6e (Ultramafic Schist)
- 6f (Nickle)
- 7 (Undivided Mafic Intrusive)
- 7a (Gabbroic)
- 7b (Diorite)
- 8 (Dyke)
- 8a (Dolerite)
- 8b (Lamprophyre)
- 8c (Pegmatite)
- 8d (Applite)
- 8e (Pyroxenite)
- 8f (Aphanitic UM Dyke)
- C (Coring)
- EOH (End of Hole)
- MS (MASSIVE SULPHIDE (>75%))

UTEM Conductor

UTEM Plate

Borehole EM

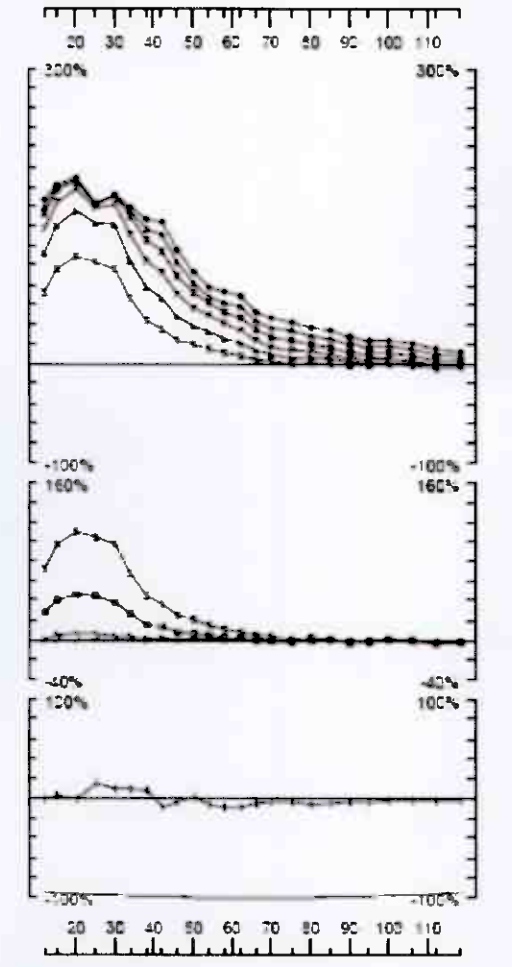
- In hole
- Off hole
- In hole edge

ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

Section L7700E
(looking grid west)
ES2004-05

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

Date: November 2005, Approved: P.Tirschmann

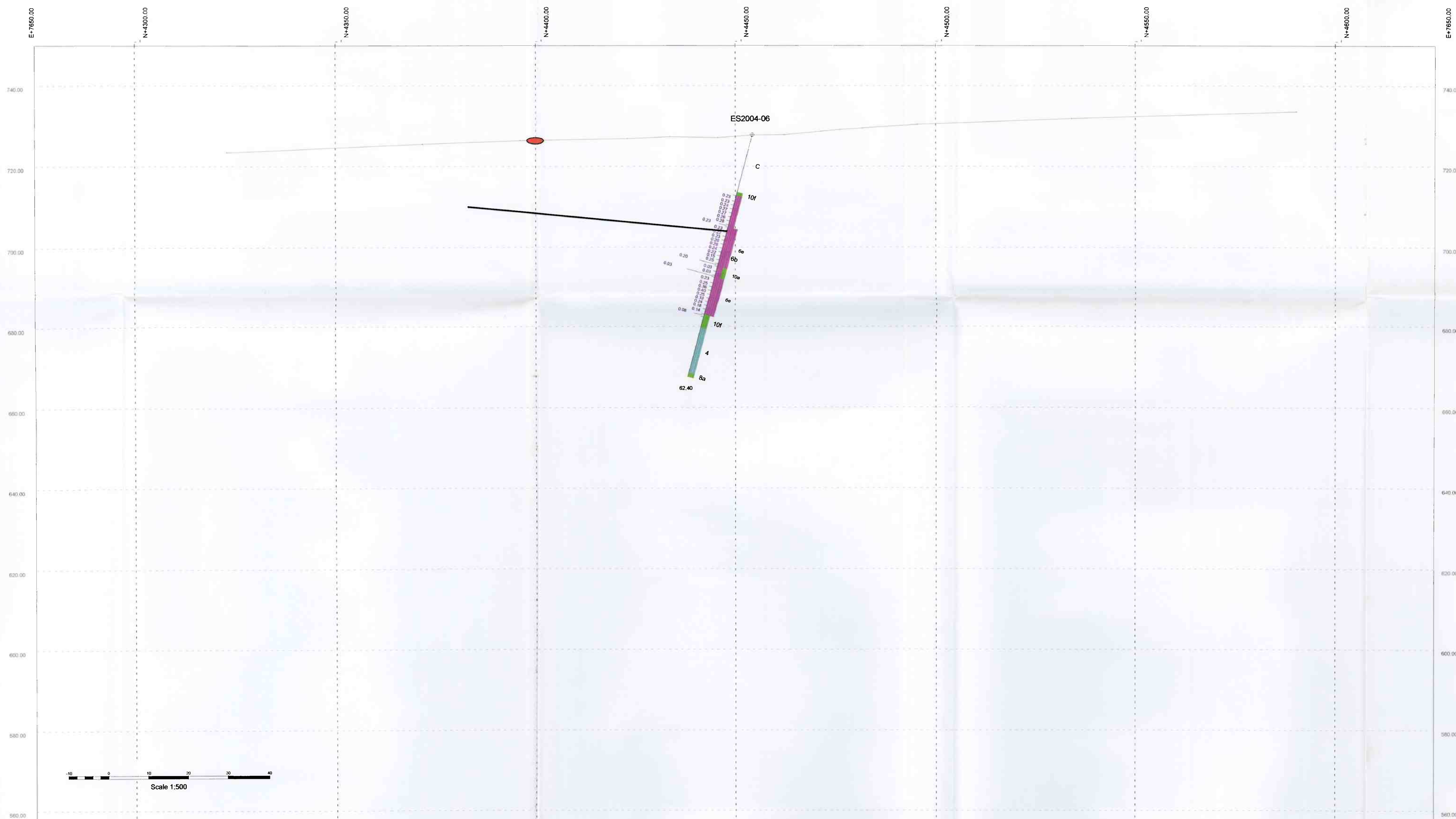
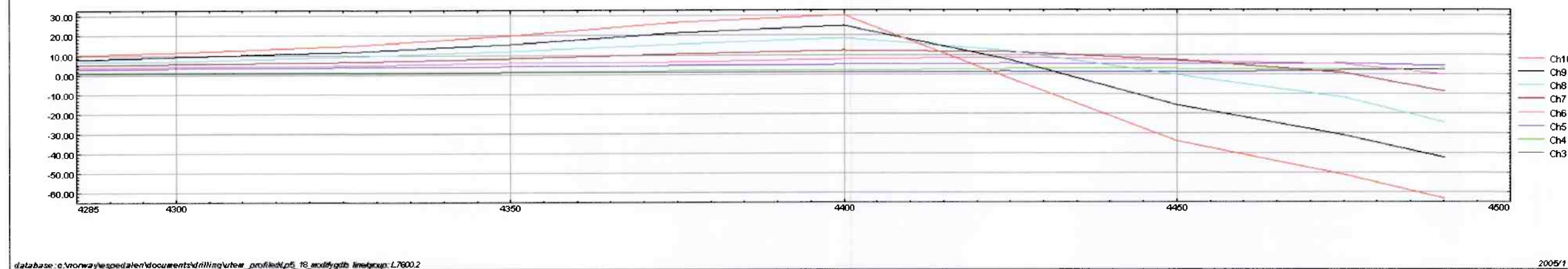


Loop 11a
Borehole: Ch3 (11a)
Loop: ES-2004-05
Date: 27/05/05
Comp: 14
Scale: 1:500
Loop 11a
Borehole: Ch3 (11a)
Loop: ES-2004-05
Date: 27/05/05
Comp: 14
Scale: 1:500

VEDLEGA
1.1. 2005/10/5

MAP 5

L7650E UTEM Profiles



Major and Minor Lithology Descriptions

- 1 (Iotunite)
- 10 (Mafic Metavolcanic)
- 10a (Massive flows)
- 10b (Flowed flows)
- 10c (Tuffs)
- 10d (Volcaniclastics)
- 10e (Metavolcanic Schists)
- 10f (Mafic dykes)
- 11 (Intermediate Metavolcanic)
- 11a (Massive Flows)
- 11b (Tuffs)
- 11c (Volcaniclastics)
- 11d (Metavolcanic Schists)
- 11e (Intermediate dykes)
- 12 (Felsic Metavolcanic)
- 12a (Massive Flows)
- 12b (Tuffs)
- 12c (Volcaniclastics)
- 12d (Metavolcanic Schists)
- 12e (Felsic dykes)
- 2 (Charnokite)
- 3 (Granitic Augen Gneiss)
- 4 (Anorthositic / Anorthositic Gabbro)
- 4a (Sausseized/Tectonized Anorthositic)
- 5 (Undivided Metasediments)
- 5a (Silicous Metasediments)
- 5b (Felsic Metasediments)
- 6 (Undivided Ultramafic Intrusive)
- 6a (Dunite)
- 6b (Peridotite)
- 6c (Oikocrystic Pyroxenite)
- 6d (Pyroxenite)
- 6e (Ultramafic Schist)
- 6f (Norte)
- 7 (Undivided Mafic Intrusive)
- 7a (Gabbroanite)
- 7b (Diorite)
- 8 (Dyke)
- 8a (Dolerite)
- 8b (Lamprophyre)
- 8c (Pegmatite)
- 8d (Apilite)
- 8e (Pyroxenite)
- 8f (Aphanitic UM Dyke)
- C (Casing)
- EOH (End of Hole)
- MS (MASSIVE SULPHIDE (>75%))

UTEM Conductor

UTEM Plate

Borehole EM

In hole

Off hole

In hole edge

VEDLEGG
J.nr. 2159/05

MAP 6

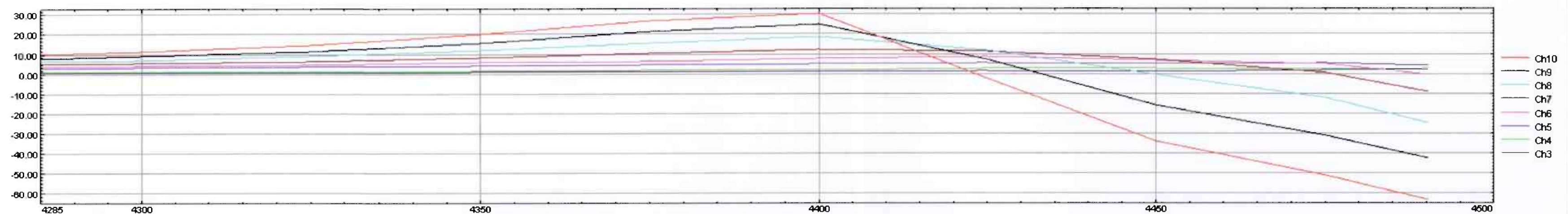
ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

Section L7650E
(looking grid west)
ES2004-06

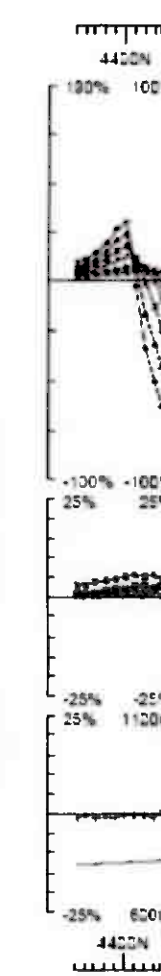
Drillhole with Nickel Assay % on Left (Ni > 0.5 in Red),
Major and Minor Lithology on Right

Date: November 2005.

Approved: P.Tirschmann



2005/11/03



Loop: 15	Secondary: CH1 - CH14p1 Contn. Norm at depth of 0 m
UTEM Survey at: Espadalen For: AUS Sulfidmalm	

 **UTEM Conductor**

UTEM Plate

Borehole EM

© In Role

 Off hook

 In hole

VEDLEGG.....SV.
J.nr. 2159/0.

MA

ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

Section L7600E
(looking grid west)

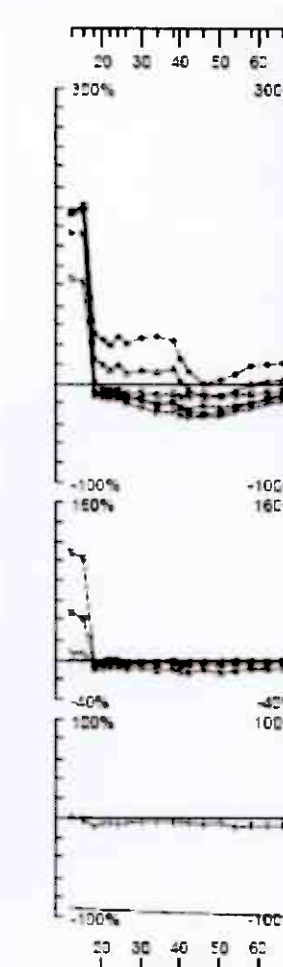
(looking grid west

ES2004-07

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

Date: November 2005.

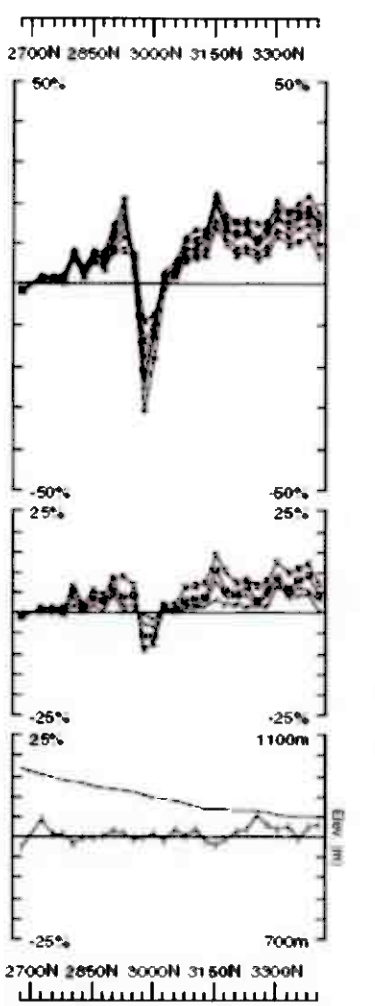
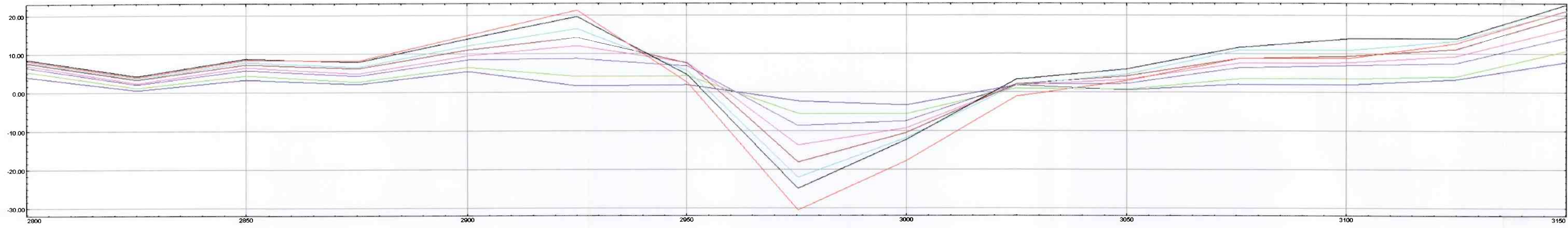
Approved: P.Tirschmann



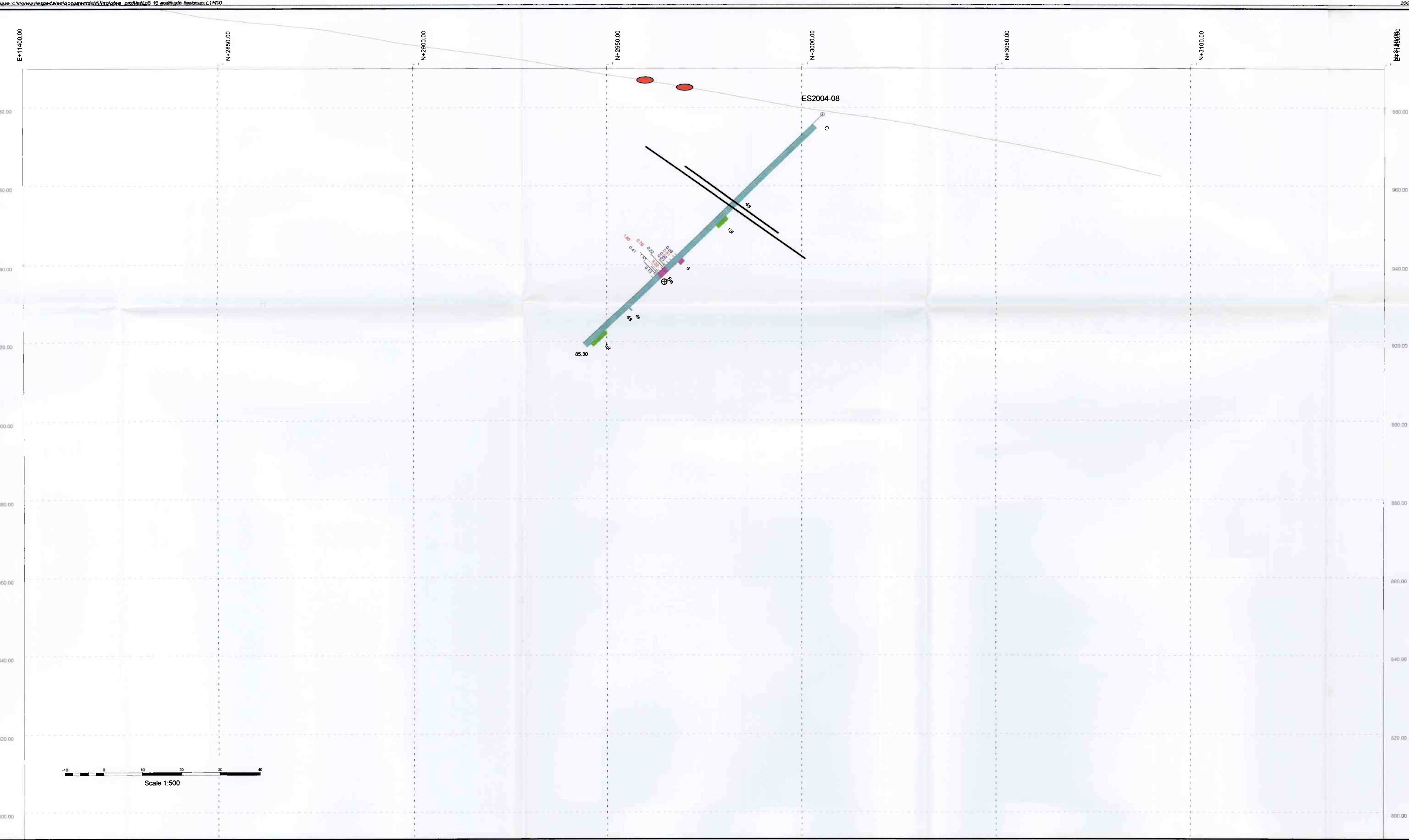
cop. 15a: Index: ES.2004.07	Secondary, (Chn-Chn) High Canton, Norm at north of 0.6 m	BHUTEM Survey at Espedalen For A/S Sullidmalin
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L11400E UTEM Profiles (2004 Data)



UTEM Survey at Espedalen
Loop 17
Line 11400E
Date: 2004-11-05
Scale: 1:500
UTEM Survey at Espedalen
Loop 17
Line 11400E
Date: 2004-11-05
Scale: 1:500



Major and Minor Lithology Descriptions

- 1 (Jokulite)
- 10 (Mafic Metavolcanic)
- 10a (Massive flows)
- 10b (Flowed 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)
- 4a (Gabbroized / Tectonized Anorthosite)
- 5 (Undivided Metasediments)
- 5a (Siliceous Metasediments)
- 5b (Felsic Metasediments)
- 6 (Undivided Ultramafic Intrusive)
- 6a (Diorite)
- 6b (Pegmatite)
- 6c (Dioritic Pyroxenite)
- 6d (Pyroxenite)
- 6e (Ultramafic Schist)
- 6f (Norte)
- 7 (Undivided Mafic Intrusive)
- 7a (Gabbroite)
- 7b (Diorite)
- 8 (Dyke)
- 8a (Dolerite)
- 8b (Lamprophyre)
- 8c (Pegmatite)
- 8d (Applite)
- 8e (Pyroxenite)
- 8f (Aphanitic UM Dyke)
- C (Casing)
- EOH (End of Hole)
- MS (MASSIVE SULPHIDE >75%)

UTEM Conductor

UTEM Plate

Borehole EM

- ⊕ In hole
- ⊗ Off hole
- In hole edge

VEDLEGG
J.nr. 2059/05

MAR 8

ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

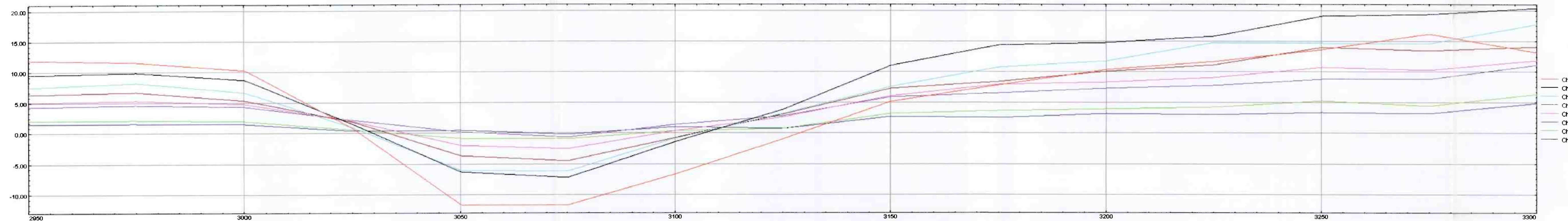
Section L11400E
(looking grid west)
ES2004-08

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

Date: November 2005.

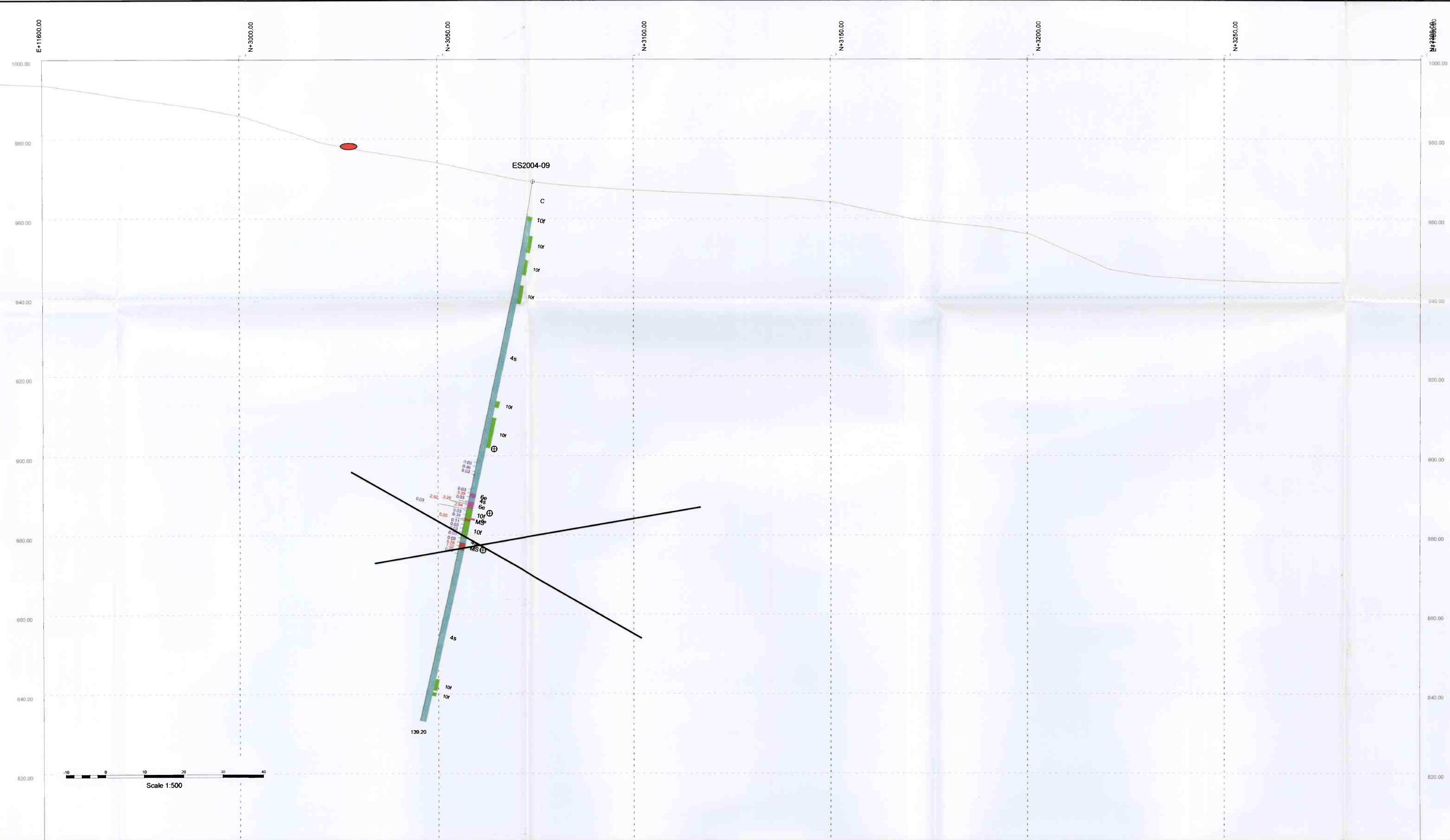
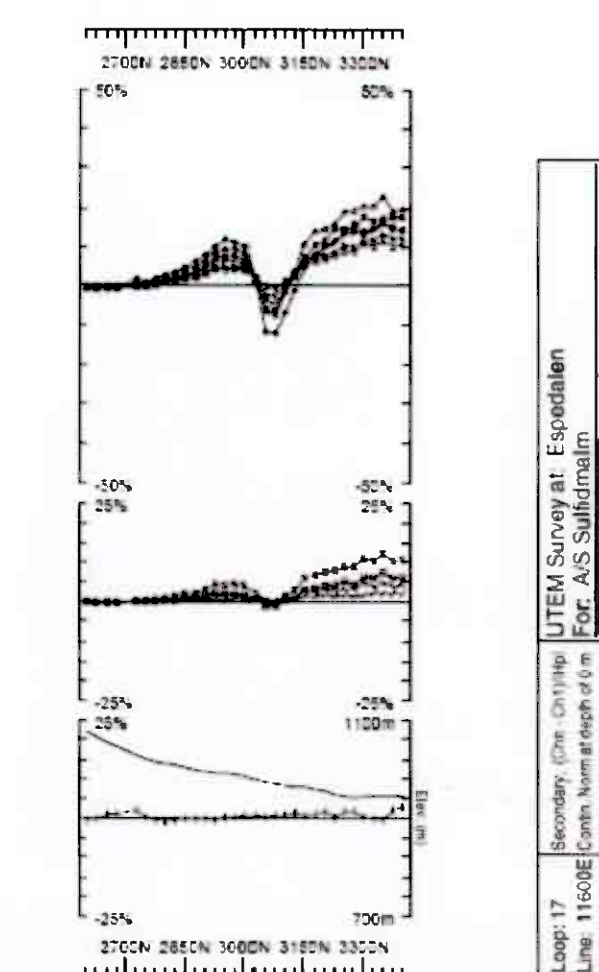
Approved: P.Tirschmann

L11600E UTEM Profiles (2004 Data)



database: c:\norway\espedalen\documents\willow\utem_profiles\18_000\group L11600

2005/11/07



Major and Minor Lithology Descriptions

- 1 (Iotane)
- 10 (Mafic Metavolcanic)
- 10a (Massive flows)
- 10b (Flowed flows)
- 10c (Tuffs)
- 10d (Volcaniclastic)
- 10e (Metavolcanic Schists)
- 10f (Mafic dykes)
- 11 (Intermediate Metavolcanic)
- 11a (Massive flows)
- 11b (Tuffs)
- 11c (Volcaniclastic)
- 11d (Metavolcanic Schists)
- 11e (Intermediate dykes)
- 12 (Felsic Metavolcanic)
- 12a (Massive flows)
- 12b (Tuffs)
- 12c (Volcaniclastic)
- 12d (Metavolcanic Schists)
- 12e (Felsic dykes)
- 2 (Charnokite)
- 3 (Granitic Augen Gneiss)
- 4 (Anorthositic / Anorthositic Gabbro)
- 4a (Sausenitized / Tectonized Anorthositic)
- 5 (Undivided Metasediments)
- 5a (Siliceous Metasediments)
- 5b (Felsic Metasediments)
- 6 (Undivided Ultramafic Intrusive)
- 6a (Dunite)
- 6b (Peridotite)
- 6c (Oikocystic Pyroxenite)
- 6d (Pyroxenite)
- 6e (Ultramafic Schist)
- 6f (Norte)
- 7 (Undivided Mafic Intrusive)
- 7a (Gabbro)
- 7b (Diorite)
- 8 (Dyke)
- 8a (Dolerite)
- 8b (Lamprophyre)
- 8c (Pegmatite)
- 8d (Apilite)
- 8e (Pyroxenite)
- 8f (Aphanitic UM Dyke)
- c (Casing)
- EDH (End of Hole)
- MS (MASSIVE SULPHIDE >75%)

UTEM Conductor

UTEM Plate

Borehole EM

- In hole
- Off hole
- In hole edge

VEDLEGG
J.nr. 2059/05

MAP 9

ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

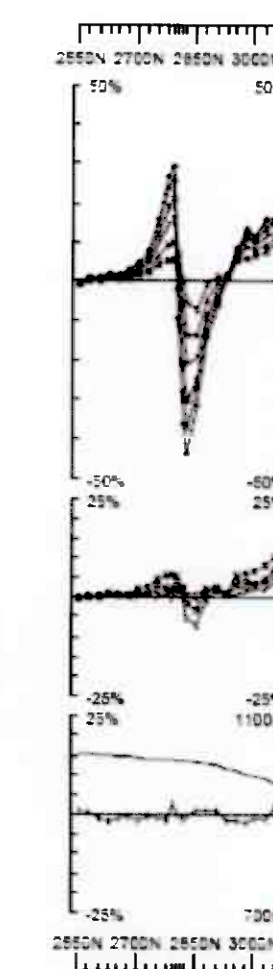
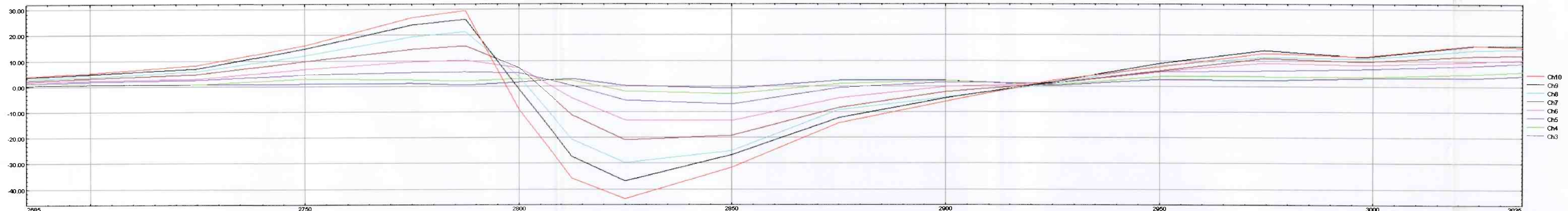
Section L11600E
(looking grid west)
ES2004-09

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

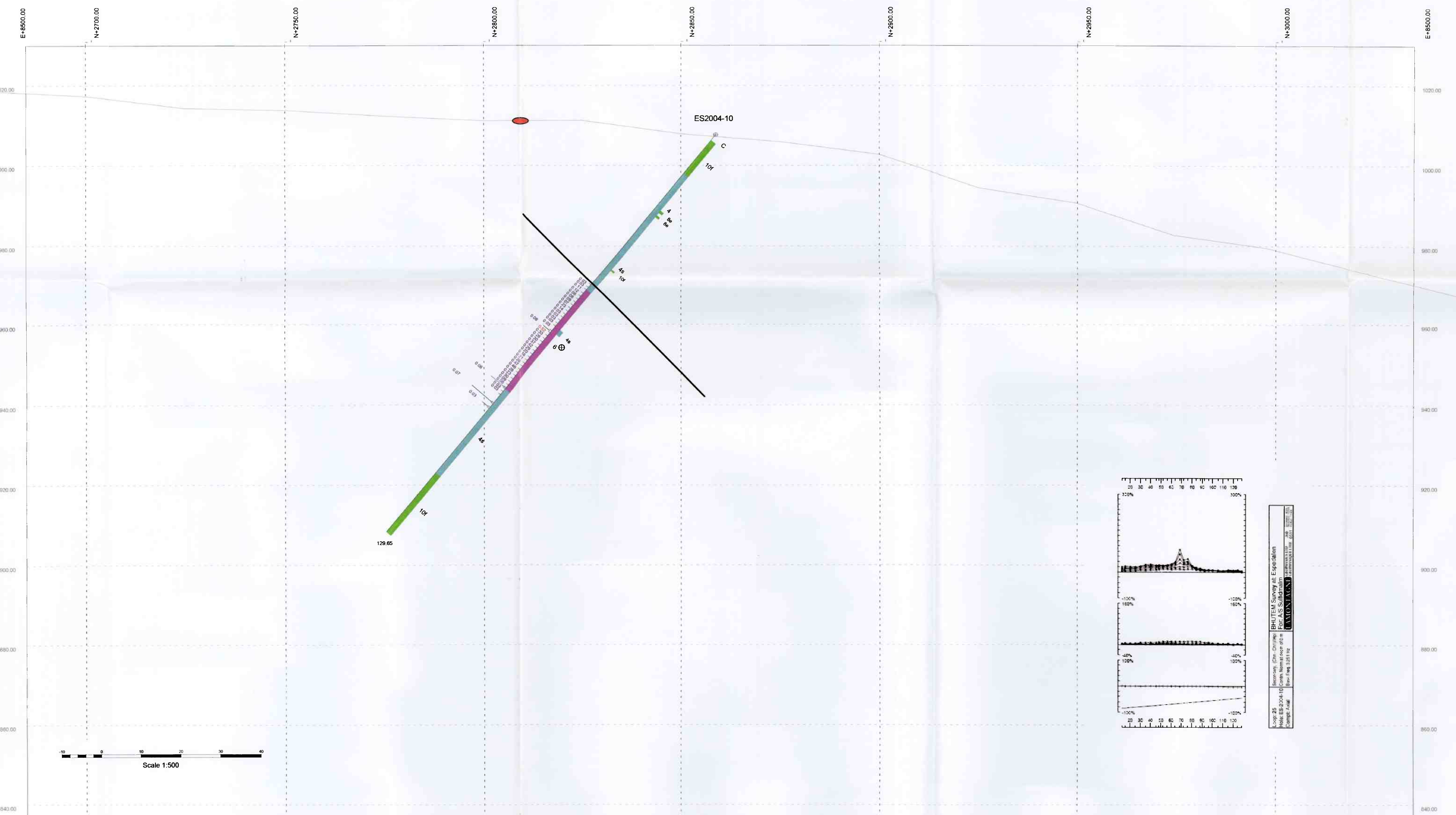
Date: November 2005.

Approved: P.Tirschmann

L8500E UTEM Profiles



Loop 25
UTEM Survey at Espedalen
For AS Sulfidmalm
Date: 2005-11-05
Scale: 1:500
Sheet: 14



Major and Minor Lithology Descriptions

- 1 (Jokulite)
- 10 (Mafic Metavolcanic)
- 10a (Massive flows)
- 10b (Flowed 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)
- 4a (Sausenitized/Tectonized Anorthosite)
- 5 (Undivided Metasediments)
- 5a (Siliceous Metasediments)
- 5b (Felsic Metasediments)
- 6 (Undivided Ultramafic Intrusive)
- 6a (Dunite)
- 6b (Pseudobulite)
- 6c (Diktycystic Pyroxenite)
- 6d (Pyroxenite)
- 6e (Ultramafic Schist)
- 6f (Norte)
- 7 (Undivided Mafic Intrusive)
- 7a (Gabbroanorthite)
- 7b (Dunite)
- 8 (Dyke)
- 8a (Dolerite)
- 8b (Lampophyre)
- 8c (Pegmatite)
- 8d (Apilite)
- 8e (Pyroxenite)
- 8f (Aphanitic UM Dyke)
- 9 (Casing)
- 9a (End of Hole)
- MS (MASSIVE SULPHIDE (>75%))

UTEM Conductor

UTEM Plate

Borehole EM

⊕ In hole

⊖ Off hole

⊙ In hole edge

VEDLEGG
J.nr. 2159/05

ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

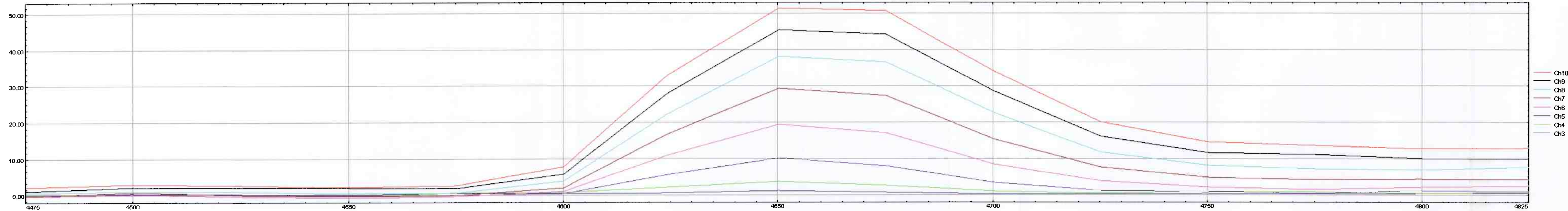
Section L8500E
(looking grid west)
ES2004-10

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

Date: November 2005.

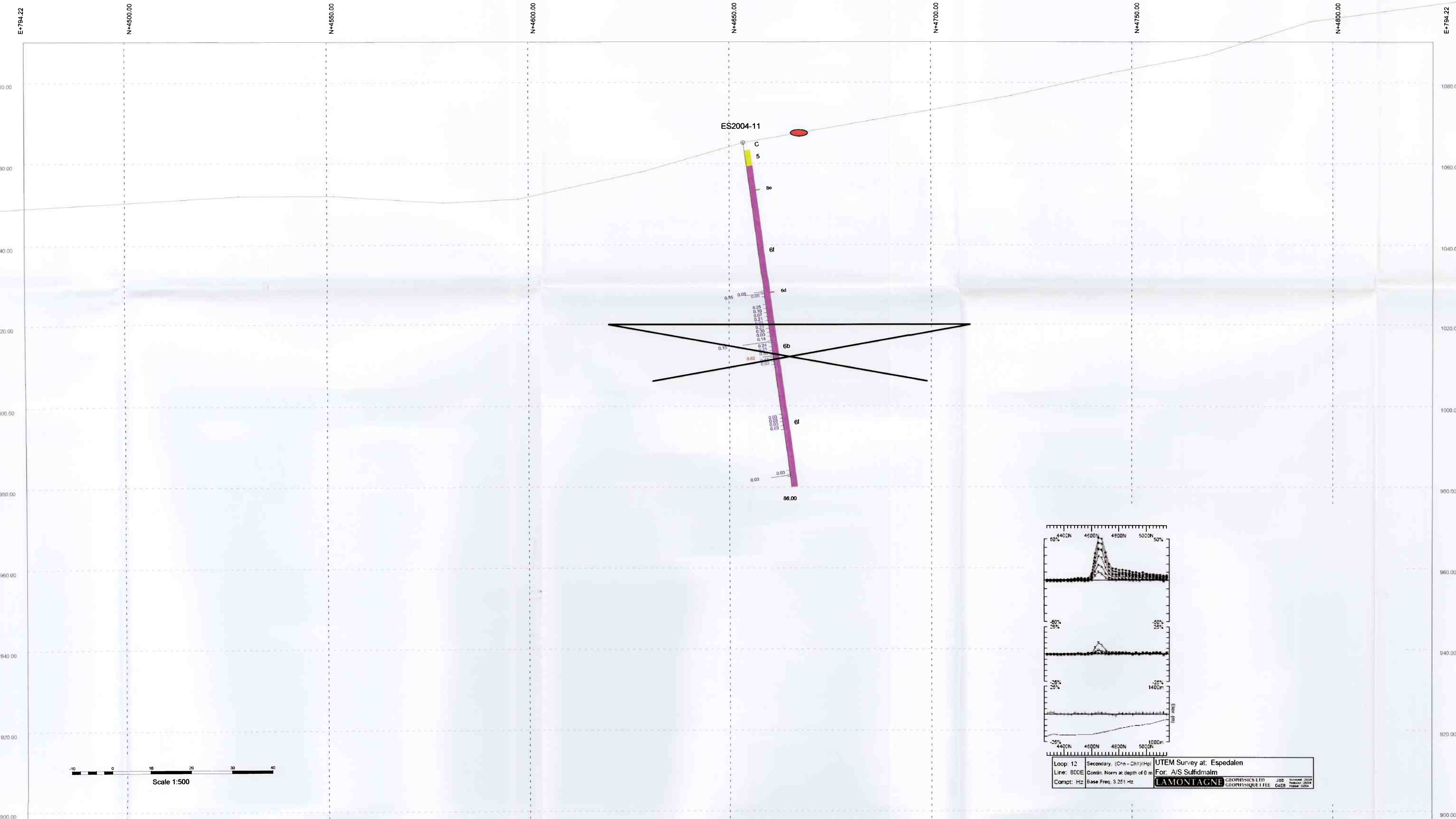
Approved: P.Tirschmann

L800E UTEM Profiles



database: C:\Norway\Espedalen\Documents\Drilling\UTEM Profiles\p5_18.mxd\p5_18.mxd

2005/11/03



Major and Minor Lithology Descriptions

- 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)
- 4a (Sausseilised / Tectonized Anorthosite)
- 5 (Undivided Metasediments)
- 5a (Siliceous Metasediments)
- 5b (Pelitic Metasediments)
- 6 (Undivided Ultramafic Intrusive)
- 6a (Dunite)
- 6b (Pseudotite)
- 6c (Oikocystic Pyroxenite)
- 6d (Pyroxenite)
- 6e (Ultramafic Schist)
- 6f (Noria)
- 7 (Undivided Mafic Intrusive)
- 7a (Gabbroanorthite)
- 7b (Diorite)
- 8 (Dyke)
- 8a (Dolerite)
- 8b (Lamprophyre)
- 8c (Pegmatite)
- 8d (Applite)
- 8e (Pyroxenite)
- 8f (Aphanitic UM Dyke)
- C (Casing)
- EOH (End of Hole)
- MS (MASSIVE SULPHIDE (>75%))

UTEM Conductor

UTEM Plate

Borehole EM

- In hole
- Off hole
- In hole edge

VEDLEGG
J.nr. 2159/OS

MAR 11

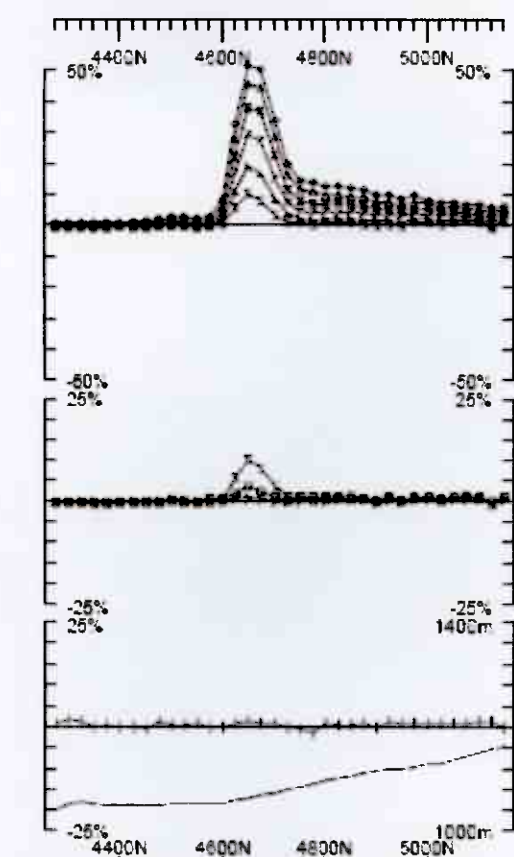
ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

Section L800E
(looking grid west)
ES2004-11

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

Date: November 2005.

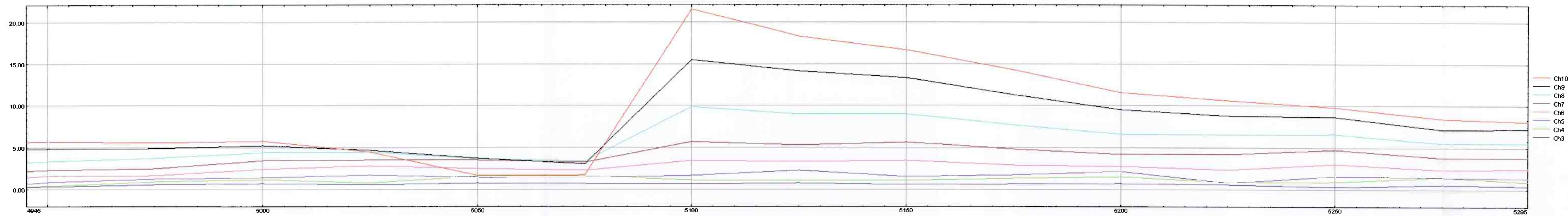
Approved: P.Tirschmann



Loop: 12 Secondary (Chn - Ch1) (Hr)
Line: 800E Coord. Norm at depth of 0 m
Comp: HZ Base Freq. 3.251 Hz

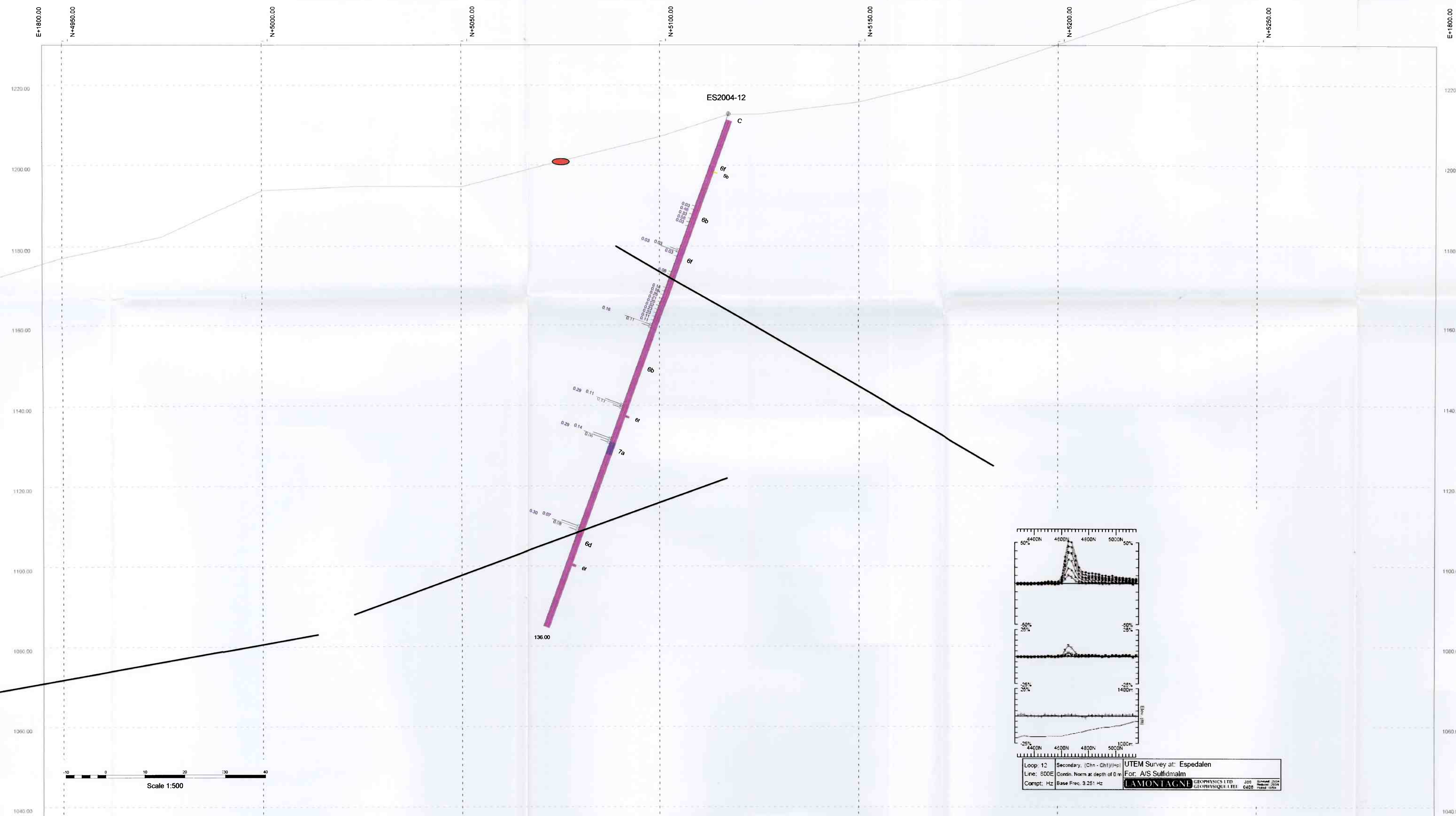
UTEM Survey at: Espedalen
For: A/S Sulfidmalm
LAMONTAGNE

L1800E UTEM Profiles



c:\database\c:\nora\espedalen\documents\drilling\utem_profiles\utem_1800e\utem_profiles_L1800

2009/11/03



Major and Minor Lithology Descriptions

- 1 (Jotunite)
- 10 (Mafic Metavolcanic)
 - 10a (Massive flows)
 - 10b (Pillow 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 (Charnokite)
- 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 (Oikocystic Pyroxenite)
 - 6d (Pyroxenite)
 - 6e (Ultramafic Schist)
 - 6f (Norite)
- 7 (Undivided Mafic Intrusive)
 - 7a (Gabbroicite)
 - 7b (Diorite)
- 8 (Dyke)
 - 8a (Dolerite)
 - 8b (Lamprophyre)
 - 8c (Fogmagite)
 - 8d (Apfite)
 - 8e (Pyroxenite)
 - 8f (Aphanitic UM Dyke)
- C (Casing)
- EOH (End of Hole)
- MS (MASSIVE SULPHIDE (>75%))

UTEM Conductor

UTEM Plate

Borehole EM

- In hole
- Off hole
- In hole edge

VEDLEGG
J.nr. 2153/05

MAP 12

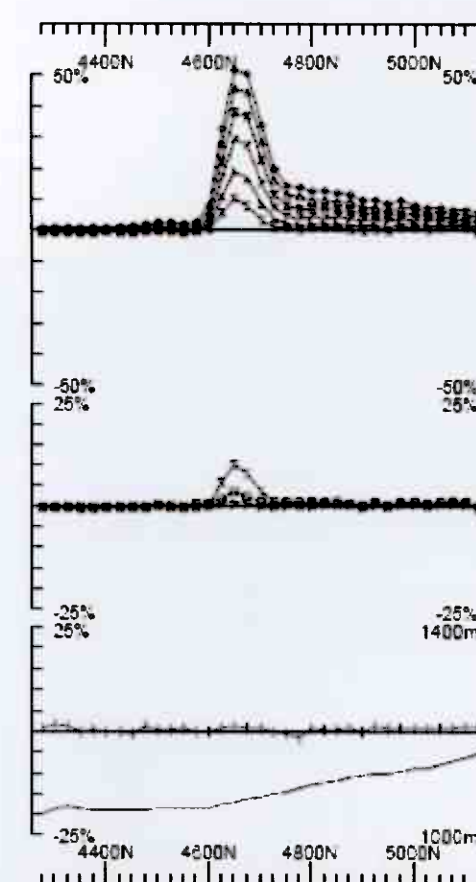
ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

Section L1800E
(looking grid west)
ES2004-12

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

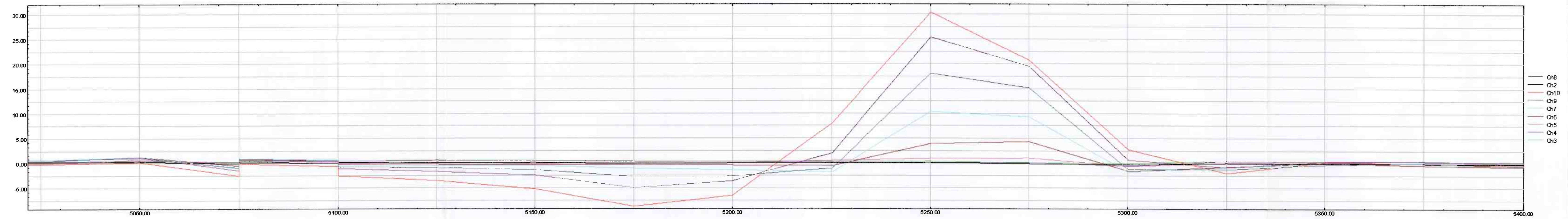
Date: November 2005.

Approved: P.Tirschmann



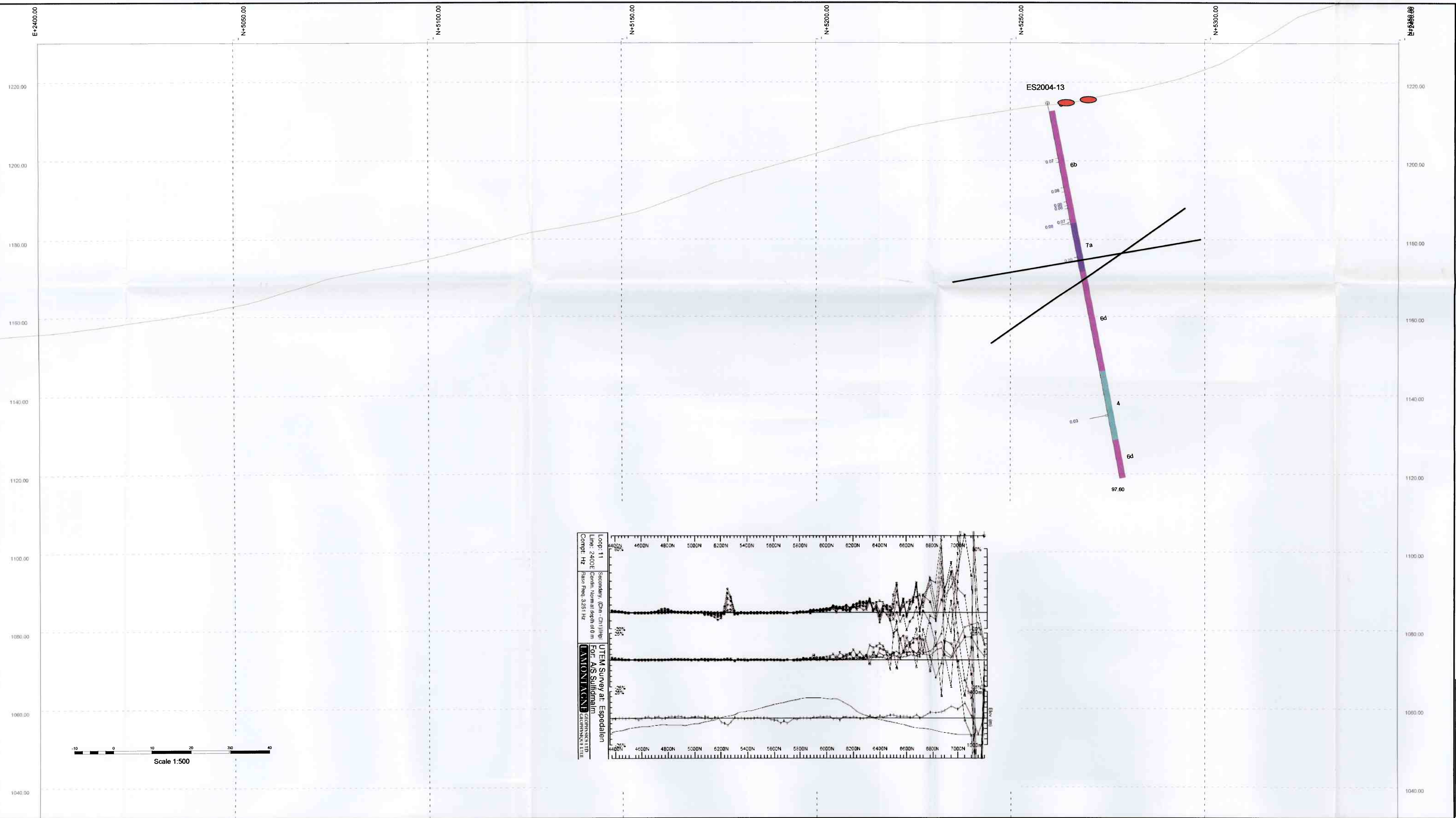
Loop: 12 Secondary (Chn - Ch1) [mV] UTEM Survey at: Espedalen
Line: 800E Cond. Norm at depth of 0 m For: A/S Sulfidmalm
Compt: Hz Base Freq: 0.251 Hz
LAMONTAGNE GEOPHYSICS LTD 305
GEOPHYSIQUE LTD 6458

L2400E UTEM Profiles



Database: D:\Norway\Espedalen2004_Documents\2004 UTEM\Prelim UTEM Database\2004_10_modify\00 Linegroup: L2400

2004/05/20



Major and Minor Lithology Descriptions

- 1 (Gabbro)
- 10 (Mafic Metavolcanic)
- 10a (Massive flows)
- 10b (Pillow 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 (Charnokite)
- 3 (Granitic Augen Gneiss)
- 4 (Anorthositic / Anorthositic Gabbro)
- 4s (Sausenized / Tectonized Anorthositic)
- 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 (Nickle)
- 7 (Undivided Mafic Intrusive)
- 7a (Gabbroic)
- 7b (Diorite)
- 8 (Dyke)
- 8a (Dolerite)
- 8b (Lamprophyre)
- 8c (Pegmatite)
- 8d (Apilite)
- 8e (Pyroxenite)
- 9 (Aphanitic UM Dyke)
- C (Central)
- EOH (End of Hole)
- MS (MASSIVE SULPHIDE (>75%))

UTEM Conductor

UTEM Plate

Borehole EM

In hole

Off hole

In hole edge

VEDLEGG
J.W. 2159/05

Map 13

ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

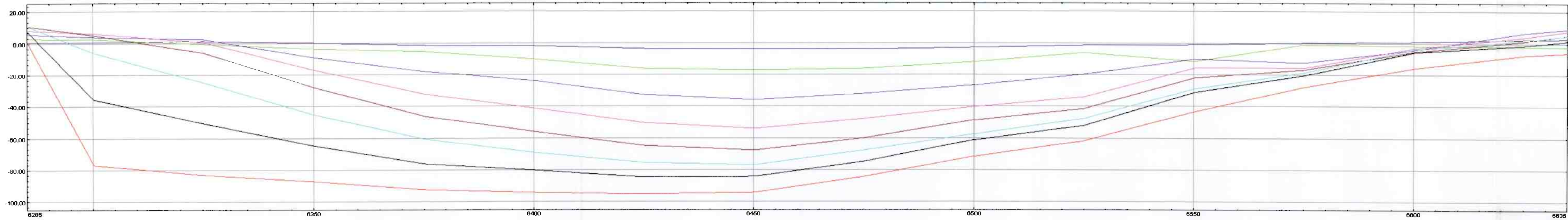
Section L2400E
(looking grid west)
ES2004-13

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

Date: November 2005.

Approved: P.Tirschmann

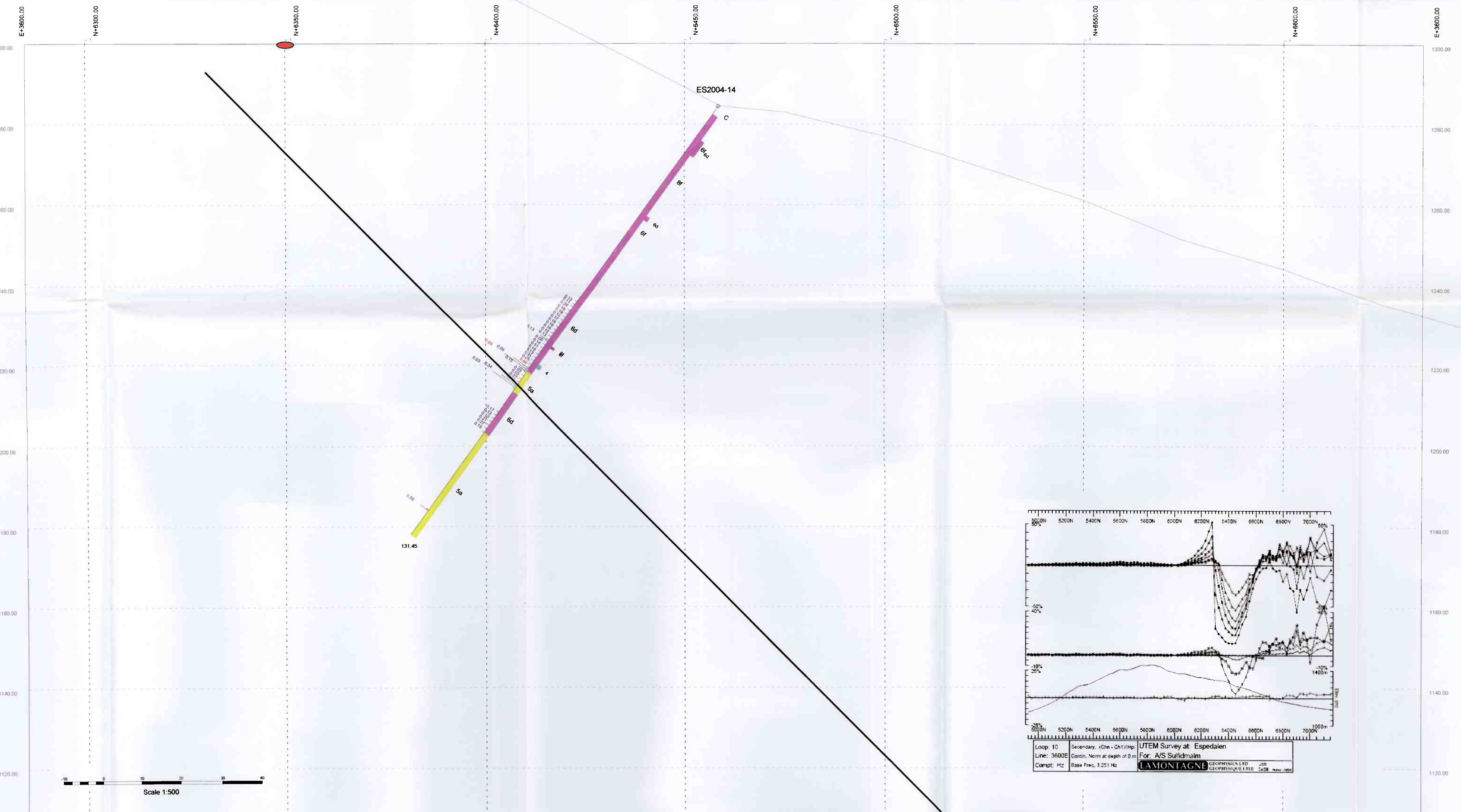
L3600E UTEM Profiles



CH10
CH9
CH8
CH7
CH6
CH5
CH4
CH3

database: c:\norge\espedalen\documents\drilling\utem_profiles\utem_profiles_L3600

2005/11/03



Major and Minor Lithology Descriptions

- 1 (Joluite)
- 10 (Mafic Metavolcanic)
- 10a (Massive flows)
- 10b (Flowed flows)
- 10c (Tuffs)
- 10d (Volcaniclastics)
- 10e (Metavolcanic Schists)
- 10f (Mafic dykes)
- 11 (Intermediate Metavolcanic)
- 11a (Massive flows)
- 11b (Tuffs)
- 11c (Volcaniclastics)
- 11d (Metavolcanic Schists)
- 11e (Intermediate dykes)
- 12 (Felsic Metavolcanic)
- 12a (Massive flows)
- 12b (Tuffs)
- 12c (Volcaniclastics)
- 12d (Metavolcanic Schists)
- 12e (Felsic dykes)
- 2 (Charnockite)
- 3 (Granitic Augen Gneiss)
- 4 (Anorthosite / Anorthositic Gabbro)
- 4a (Sausenized / Tectonized Anorthosite)
- 5 (Undivided Metasediments)
- 5a (Siliceous Metasediments)
- 5b (Felsic Metasediments)
- 6 (Undivided Ultramafic Intrusive)
- 6a (Dunite)
- 6b (Pseudobulb)
- 6c (Oikocystic Pyroxenite)
- 6d (Pyroxenite)
- 6e (Ultramafic Schist)
- 6f (Monite)
- 7 (Undivided Mafic Intrusive)
- 7a (Gabbroic)
- 7b (Diorite)
- 8 (Dyke)
- 8a (Dolerite)
- 8b (Lamprophyre)
- 8c (Pegmatite)
- 8d (Applite)
- 8e (Pyroxenite)
- 9 (Aphanitic UM Dyke)
- 9a (Casting)
- EOH (End of Hole)
- MS (MASSIVE SULPHIDE (>75%))

UTEM Conductor

UTEM Plate

Borehole EM

In hole

Off hole

In hole edge

VEDLEGG
J.nr. 2059/05

MAP 14

ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

Section L3600E

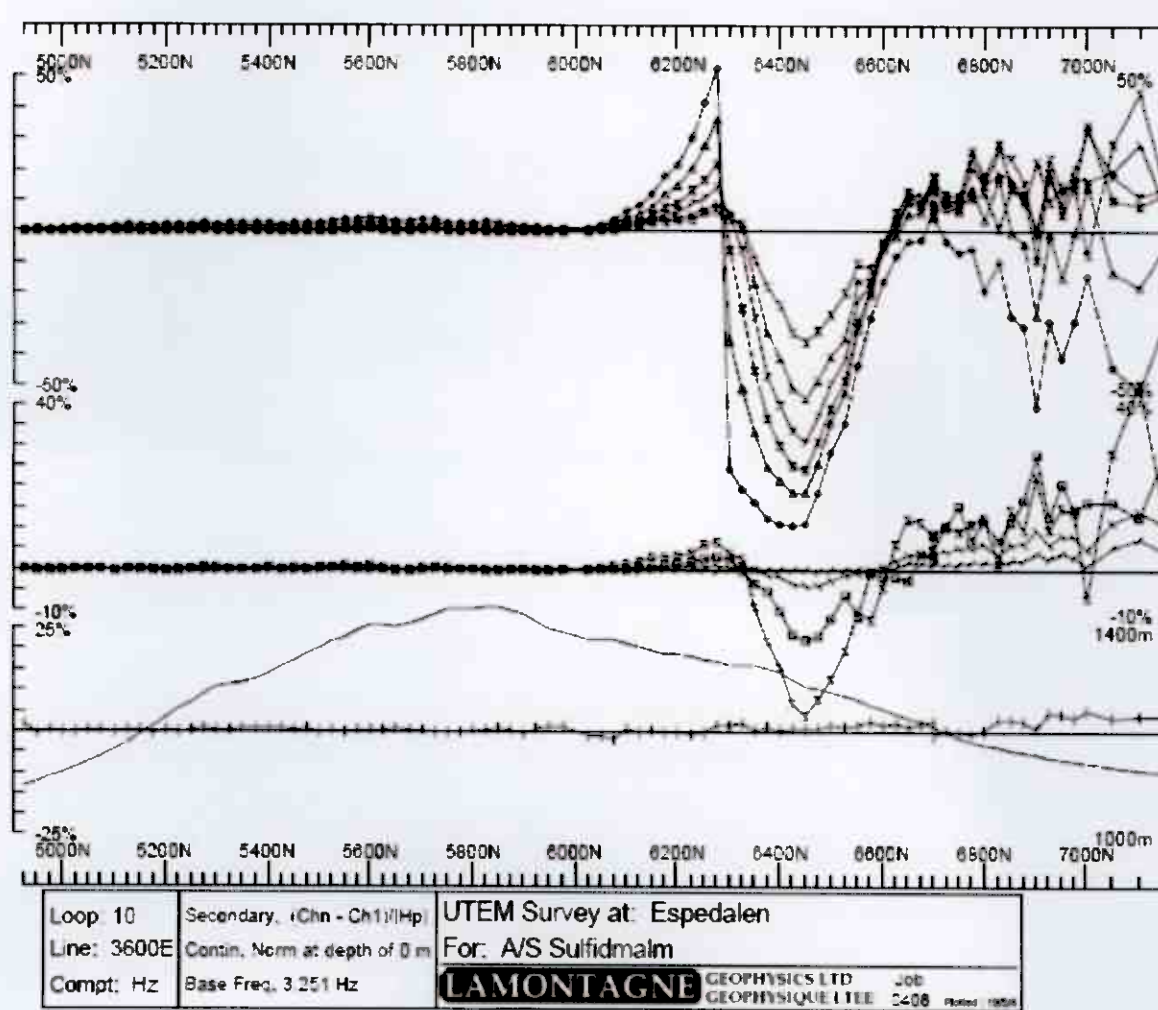
(looking grid west)

ES2004-14

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

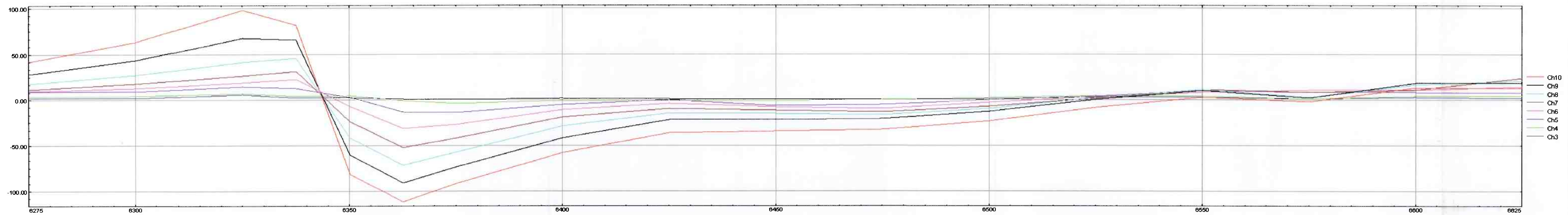
Date: November 2005.

Approved: P.Tirschmann



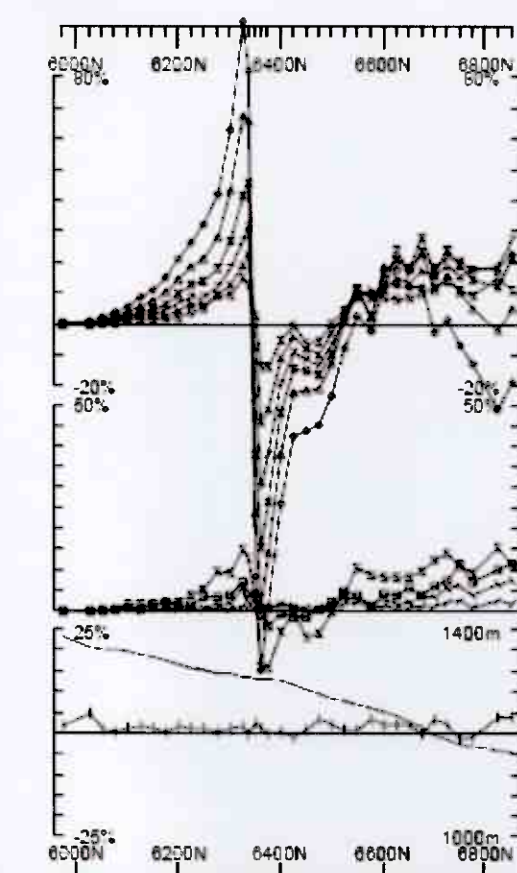
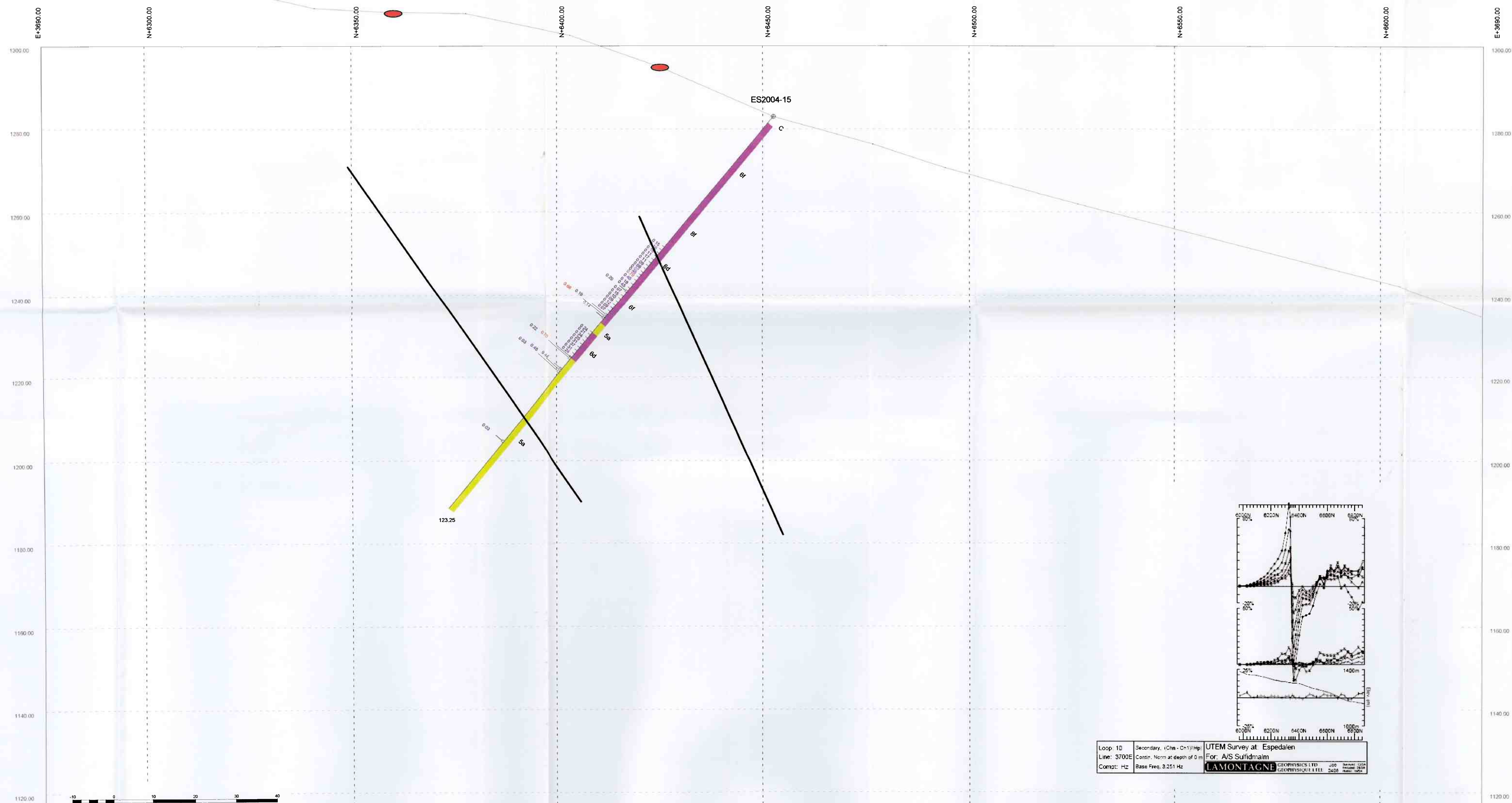
Loop: 10 Secondary, 10m - CH10 (10m)
Line: 3600E UTEM Survey at Espedalen
For: A/S Sulfidmalm
Comp: HZ Base Freq: 3.251 Hz
LAMONTAGNE GEOPHYSICS LTD. 2005
GEOPHYSIQUE LTD. 2005

L3700E UTEM Profiles



database:c:\norway\espedalen\documents\drilling\utem_profiles\utem_profiles_L3700

2005/11/03



Loop: 10	Secondary: (Ch10 - Ch1) (mT)	UTEM Survey at Espedalen
Line: 3700E	Contour: Norm at depth of 0 m	For: A/S Sulfidmalm
Compt: Hz	Base Freq: 3.251 Hz	LAMONTAGNE GEOPHYSICS LTD. 2400

Major and Minor Lithology Descriptions

- 1 (Jotunite)
- 10 (Mafic Metavolcanic)
 - 10a (Massive flows)
 - 10b (Flowed 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 (Charnokite)
- 3 (Granitic Augen Gneiss)
- 4 (Anorthosite / Anorthositic Gabbro)
 - 4a (Saussuritized/Tectonized Anorthosite)
- 5 (Undivided Metasediments)
 - 5a (Siliceous Metasediments)
 - 5b (Felsic Metasediments)
- 6 (Undivided Ultramafic Intrusive)
 - 6a (Dunite)
 - 6b (Pseudotuff)
 - 6c (Diktyocystic Pyroxenite)
 - 6d (Pyroxenite)
 - 6e (Ultramafic Schist)
 - 6f (Norte)
- 7 (Undivided Mafic Intrusive)
 - 7a (Gabbroanorthite)
 - 7b (Diorite)
- 8 (Dyke)
 - 8a (Dolerite)
 - 8b (Lamprophyre)
 - 8c (Pegmatite)
 - 8d (Applite)
 - 8e (Pyroxenite)
 - 8f (Aphanitic UM Dyke)
- C (Casing)
- EOH (End of Hole)
- MS (MASSIVE SULPHIDE (>75%))

UTEM Conductor

UTEM Plate

Borehole EM

In hole

Off hole

In hole edge

VEDLEGG
J.nr. 2159/05

MAP 15

ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

Section L3700E
(looking grid west)

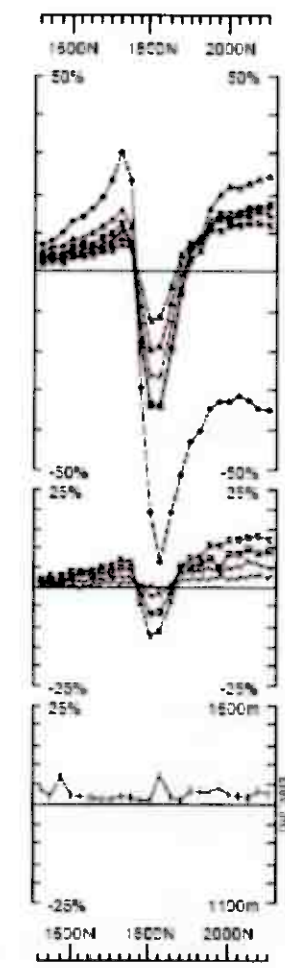
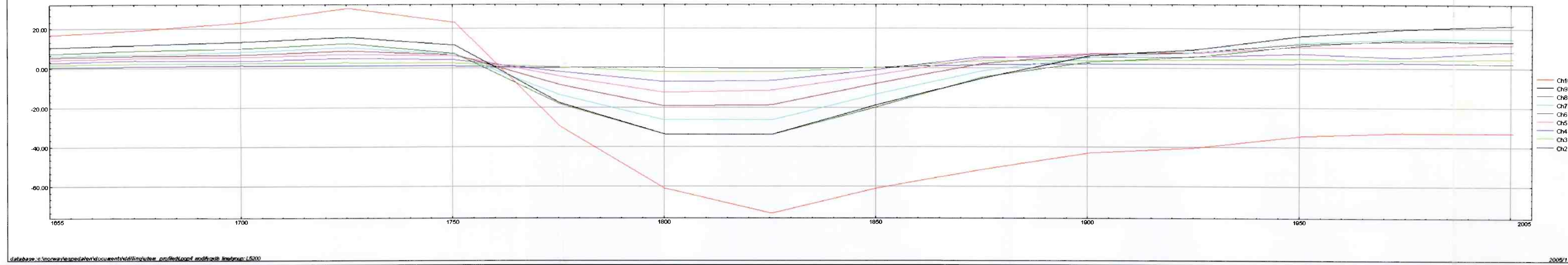
ES2004-15

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

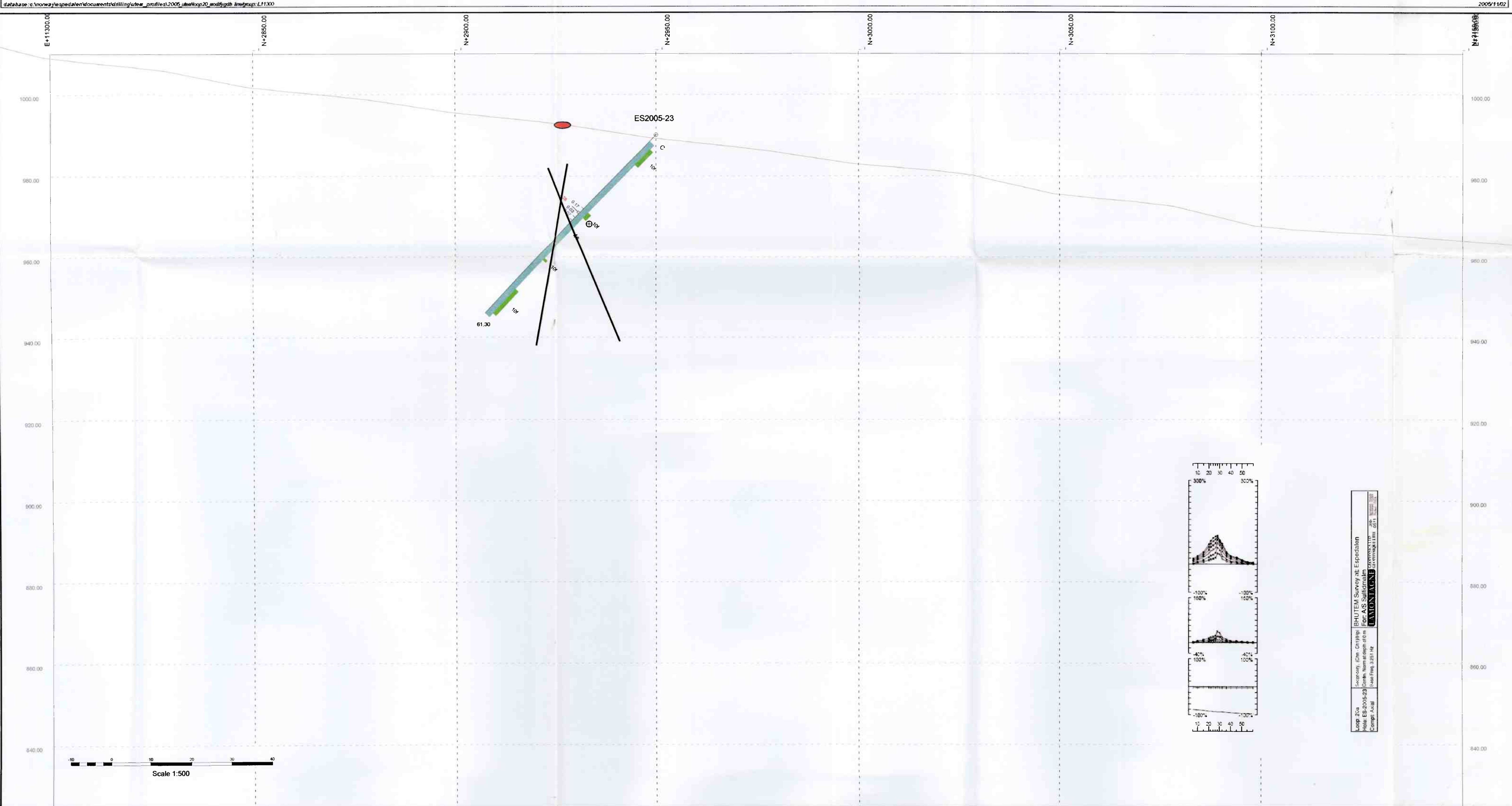
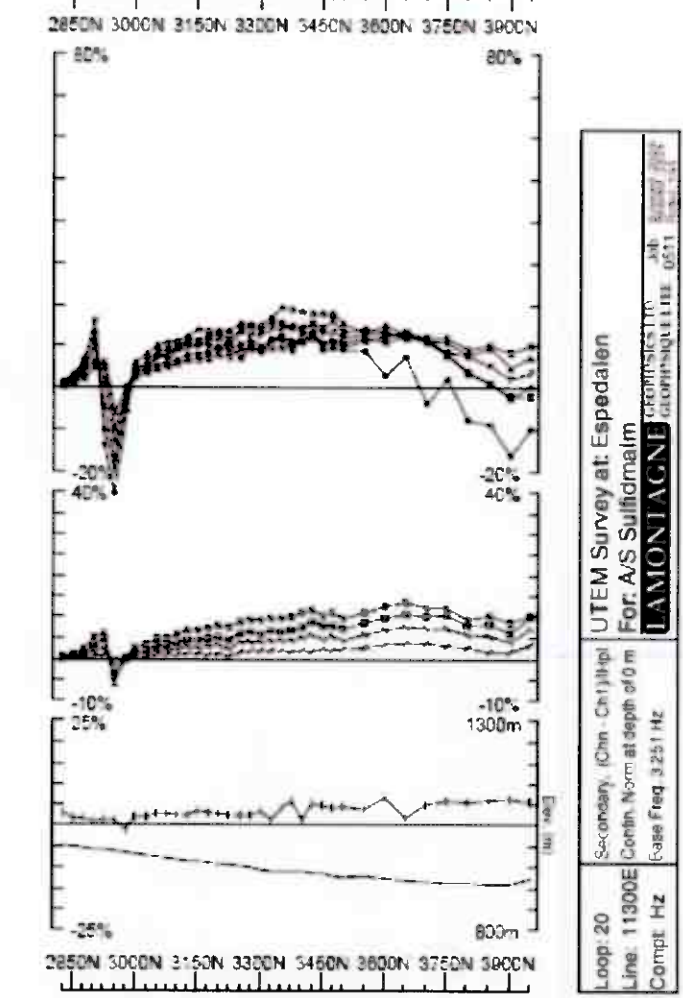
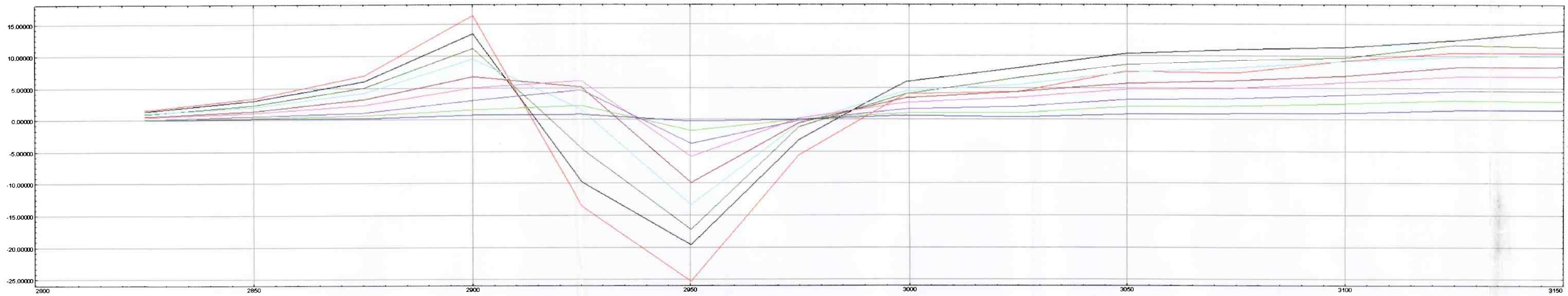
Date: November 2005.

Approved: P.Tirschmann

L5200E UTEM Profiles



L11300E UTEM Profiles



Major and Minor Lithology Descriptions

- 1 (Jotunite)
- 10 (Mafic Metavolcanic)
 - 10a (Massive flows)
 - 10b (Foliated 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 (Charnokite)
- 3 (Granitic Augen Gneiss)
- 4 (Anorthosite / Anorthositic Gabbro)
 - 4a (Sausenitized/Tectonized Anorthosite)
- 5 (Undivided Metasediments)
 - 5a (Siliceous Metasediments)
 - 5b (Pelitic Metasediments)
- 6 (Undivided Ultramafic Intrusive)
 - 6a (Dunite)
 - 6b (Pseudotite)
 - 6c (Oikocystic Pyroxenite)
 - 6d (Pyroxenite)
 - 6e (Ultramafic Schist)
 - 6f (Norite)
- 7 (Undivided Mafic Intrusive)
 - 7a (Gabbro-norite)
 - 7b (Diorite)
- 8 (Dyke)
 - 8a (Dolerite)
 - 8b (Lampophyre)
 - 8c (Pegmatite)
 - 8d (Apfite)
 - 8e (Pyroxenite)
 - 8f (Aphanitic UM Dyke)
- C (Casing)
- EOH (End of Hole)
- MS (MASSIVE SULPHIDE (>75%))

UTEM Conductor

UTEM Plate

Borehole EM

In hole

Off hole

In hole edge

VEDLEGG
J.nr. 2159/05

MAP 17

ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

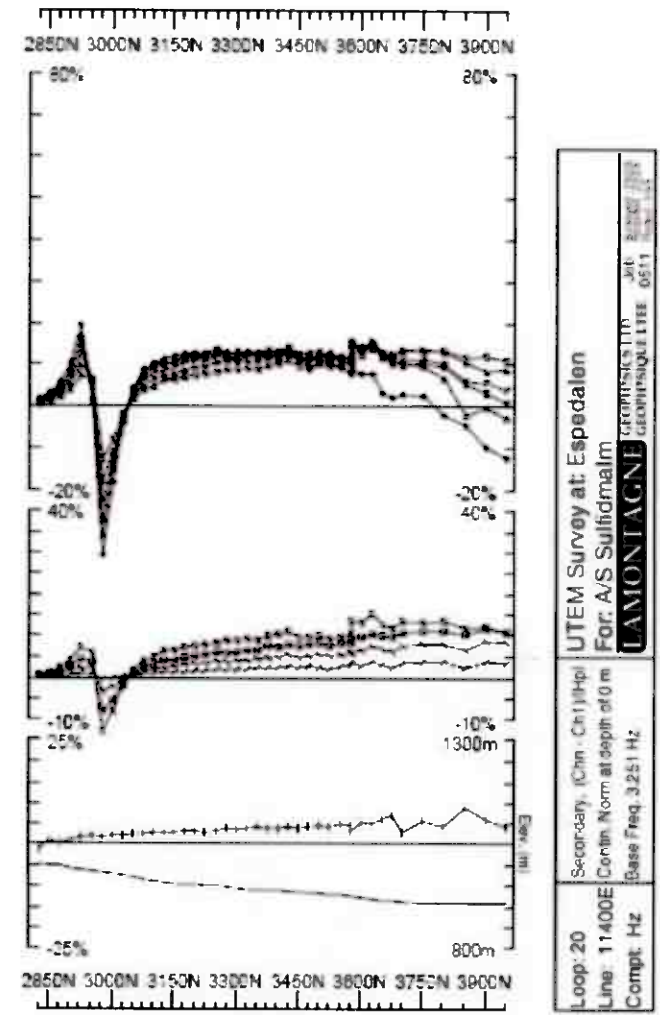
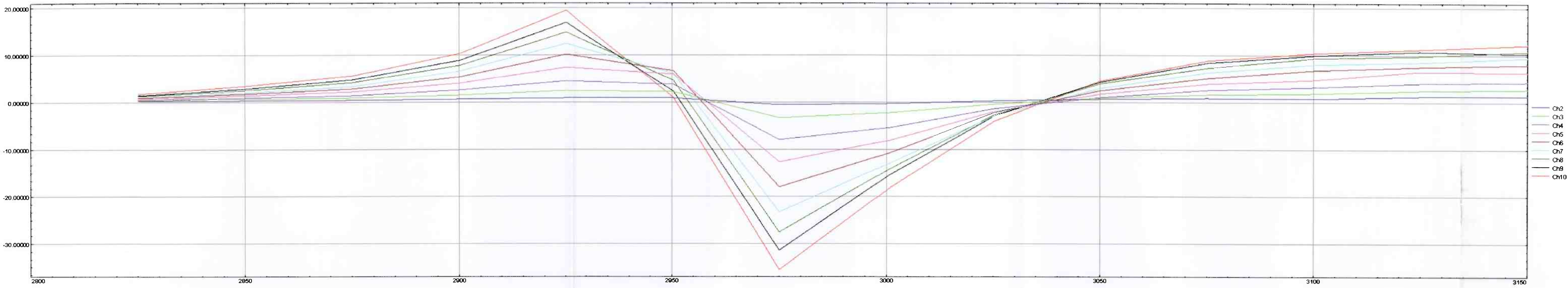
Section L11300E
(looking grid west)
ES2005-23

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

Date: November 2005.

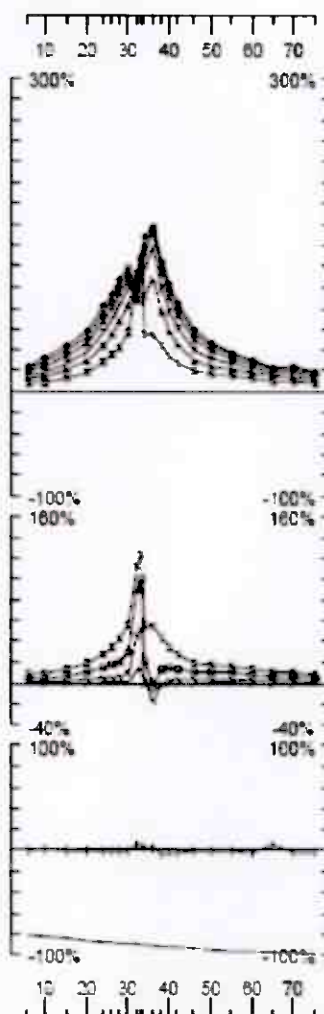
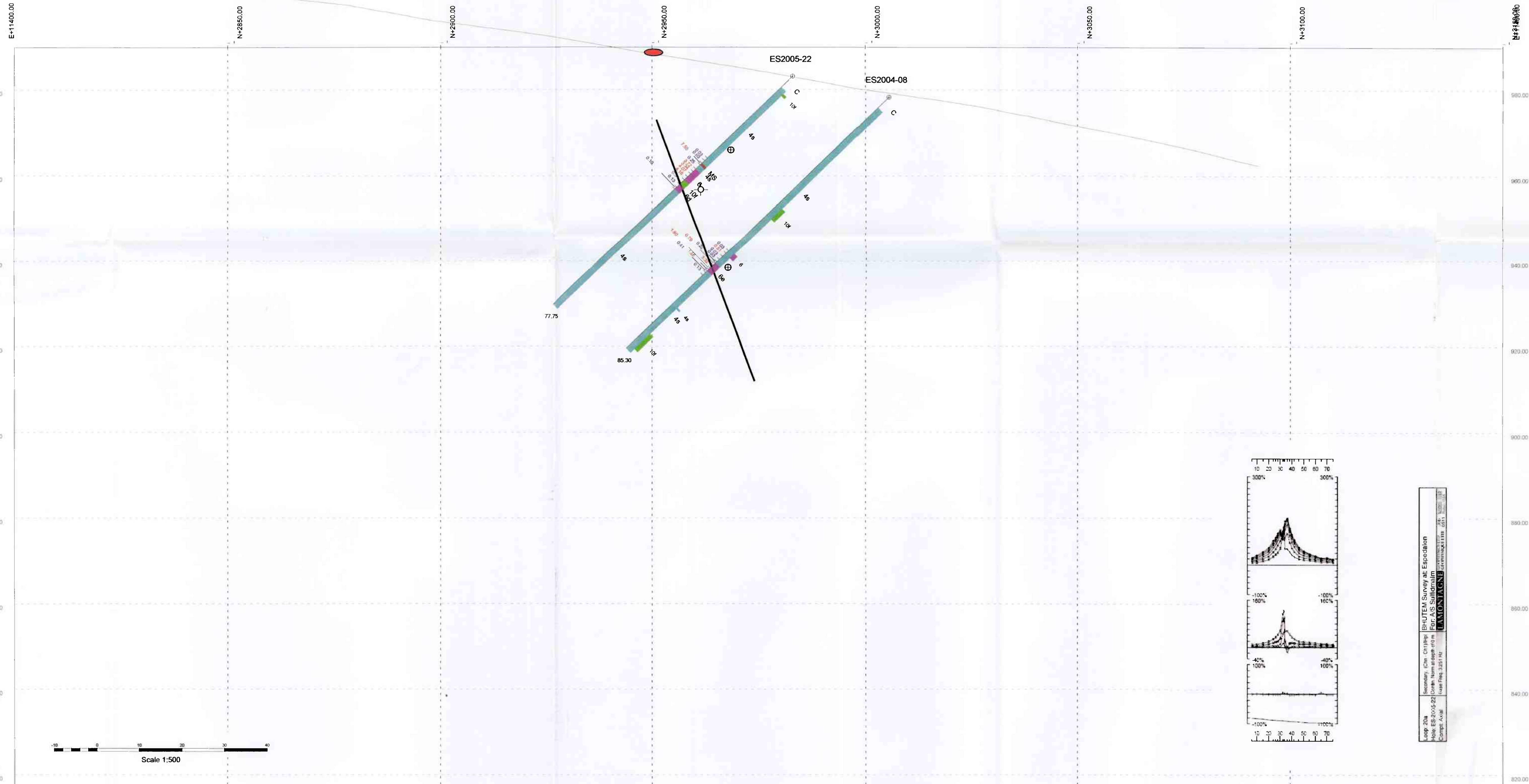
Approved: P.Tirschmann

L11400E UTEM Profiles



database: c:\norway\espedalen\documents\drilling\utem_profiles\2005\loop20\magnetic\l11400

2005/11/02



Loop 20a
Secondary, Ch1 (Hole)
Hole ES-2005-22
Depth 40 m
Camp Area

Major and Minor Lithology Descriptions

- 1 (Jotunite)
- 10 (Mafic Metavolcanic)
- 10a (Massive flows)
- 10b (Pillow 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 (Sausenitized/Tectonized Anorthosite)
- 5 (Undivided Metasediments)
- 5a (Siliceous Metasediments)
- 5b (Pelitic Metasediments)
- 6 (Undivided Ultramafic Intrusive)
- 6a (Dunite)
- 6b (Pseudotale)
- 6c (Oikocystic Pyroxenite)
- 6d (Pyroxenite)
- 6e (Ultramafic Schist)
- 6f (Monite)
- 7 (Undivided Mafic Intrusive)
- 7a (Gabbro-norite)
- 7b (Diorite)
- 8 (Dyke)
- 8a (Dolerite)
- 8b (Lamprophyre)
- 8c (Diorite)
- 8d (Applite)
- 8e (Pyroxenite)
- 8f (Aphanitic UM Dyke)
- C (Casing)
- EOH (End of Hole)
- MS (MASSIVE SULPHIDE (>75%))

UTEM Conductor

UTEM Plate

Borehole EM

In hole

Off hole

In hole edge

VEDLEGG
J.N. 2159/105

MAP 18

ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

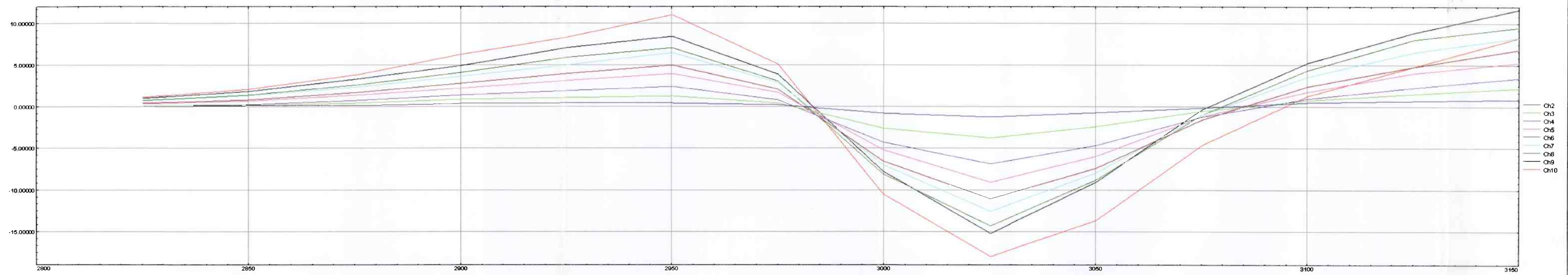
Section L11400E
(looking grid west)
ES2004-08 and ES2005-22

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

Date: November 2005.

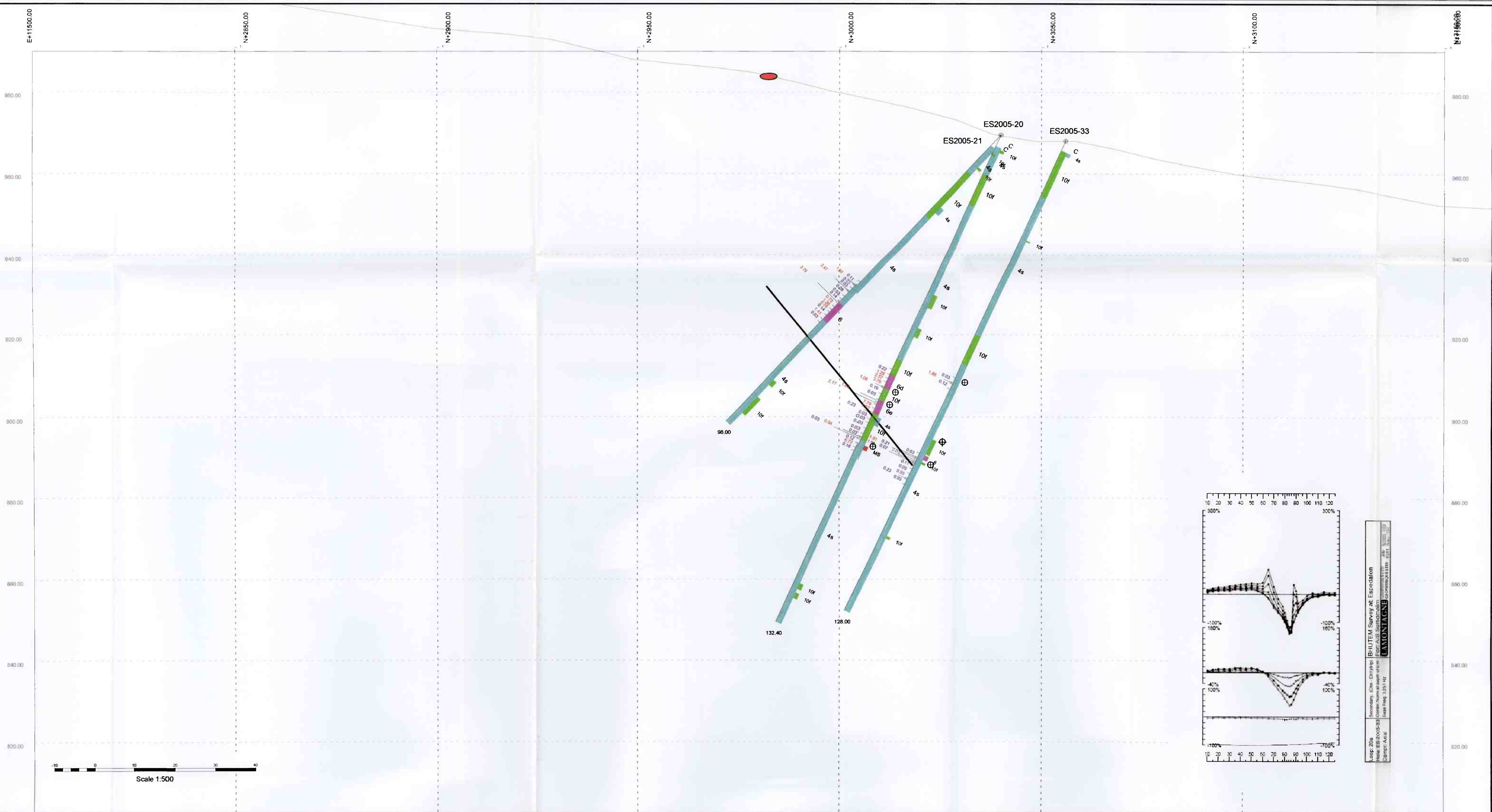
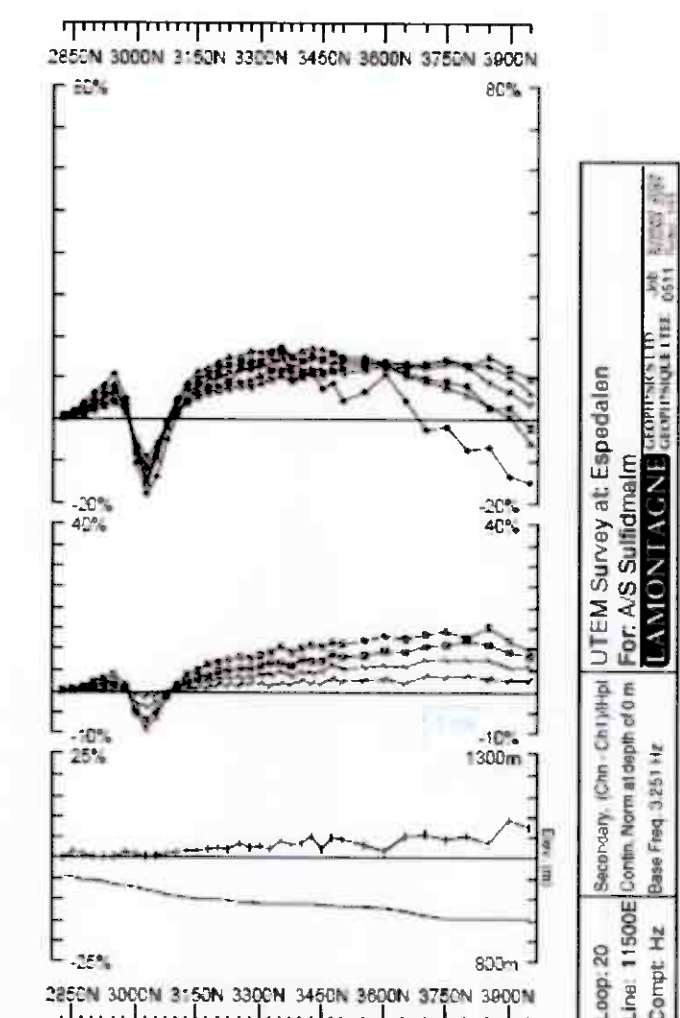
Approved: P.Tirschmann

L11500E UTEM Profiles



database: c:\norway\espedalen\documents\drilling\utem_profiles\2005\utemlog20_modify.gdb linegroup: L11500

2005/1102



Major and Minor Lithology Descriptions

- 1 (Jotunite)
 10 (Mafic Metavolcanic)
 10a (Massive flows)
 10b (Flowed 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 (Granite-Augen Gneiss)
 4 (Anorthosite / Anorthositic Gabbro)
 4a (Sousseritized / Tectonized Anorthosite)
 5 (Undivided Metasediments)
 5a (Siliceous Metasediments)
 5b (Felsic Metasediments)
 6 (Undivided Ultramafic Intrusive)
 6a (Dunite)
 6b (Peridotite)
 6c (Oikocryptic Pyroxenite)
 6d (Pyroxenite)
 6e (Ultramafic Schist)
 6f (Niorite)
 7 (Undivided Mafic Intrusive)
 7a (Gabbro/norite)
 7b (Diorite)
 8 (Dyke)
 8a (Dolerite)
 8b (Lamprophyre)
 8c (Pegmatite)
 8d (Aplite)
 8e (Pyroxenite)
 8f (Aplaphoric UM Dyke)
 9 (Capping)
 EOH (End of Hole)
 MS (MASSIVE SULPHIDE >75%)

UTEM Conductor

UTEM Plate

Borehole EM

• **In hole**

4 Off hole

in hole edge

VEDLEGG.....SV.....
J.nr. 2159/05

MAY 19

ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

Section L11500E

(looking grid west)

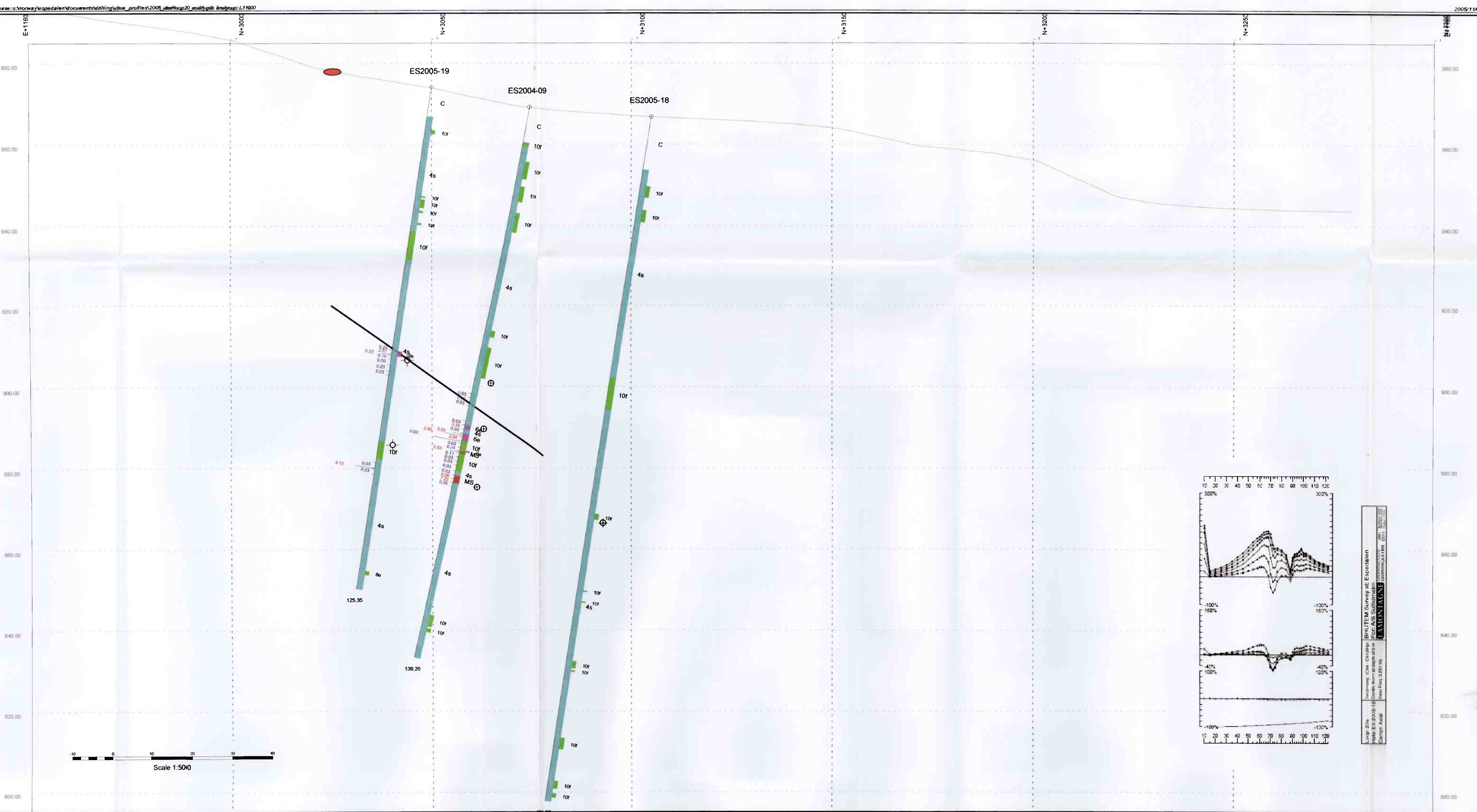
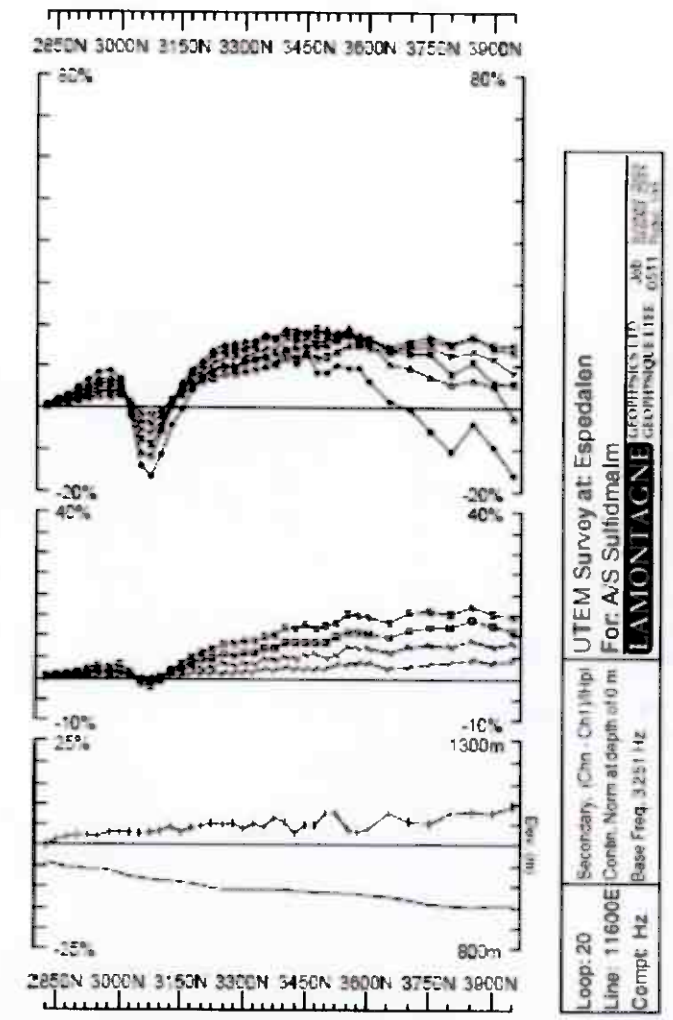
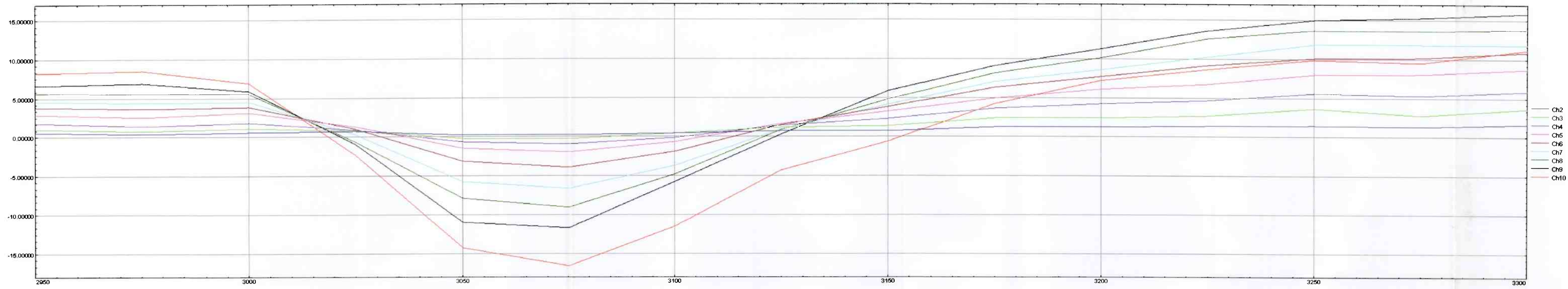
ES2005-20, 21 and 33

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

Date: November 2005.

Approved: P.Tirschmann

L11600E UTEM Profiles



- ### Major and Minor Lithology Descriptions
- 1 (Volcanic)
 - 10 (Mafic Metavolcanic)
 - 10a (Massive flows)
 - 10b (Pillowed flows)
 - 10c (Tuffs)
 - 10d (Volcaniclastic)
 - 10e (Metavolcanic Schists)
 - 10f (Mafic dykes)
 - 11 (Intermediate Metavolcanics)
 - 11a (Massive Flows)
 - 11b (Tuffs)
 - 11c (Volcaniclastic)
 - 11d (Metavolcanic Schists)
 - 11e (Intermediate dykes)
 - 12 (Felsic Metavolcanics)
 - 12a (Massive Flows)
 - 12b (Tuffs)
 - 12c (Volcaniclastic)
 - 12d (Metavolcanic Schists)
 - 12e (Felsic dykes)
 - 2 (Charnofite)
 - 3 (Granitic Augen Gneiss)
 - 4 (Anorthositic / Anorthositic Gabbro)
 - 4s (Sausenitized / Tectonized Anorthositic)
 - 5 (Undivided Metasediments)
 - 5a (Siliceous Metasediments)
 - 5b (Felsic Metasediments)
 - 6 (Undivided Ultramafic Intrusive)
 - 6a (Dunite)
 - 6b (Pseudotuff)
 - 6c (Olivoclastic Pyroxenite)
 - 6d (Pyroxenite)
 - 6e (Ultramafic Schist)
 - 6f (Norite)
 - 7 (Undivided Mafic Intrusive)
 - 7a (Gabbroite)
 - 7b (Diorite)
 - 8 (Dyke)
 - 8a (Dolerite)
 - 8b (Lamprophyre)
 - 8c (Pegmatite)
 - 8d (Applite)
 - 8e (Pyroxenite)
 - 8f (Aphanitic UM Dyke)
 - C (Casing)
 - EOH (End of Hole)
 - MS (MASSIVE SULPHIDE (>75%))

- ### UTEM Conductor
- UTEM Conductor
 - UTEM Plate
- ### Borehole EM
- In hole
 - Off hole
 - In hole edge

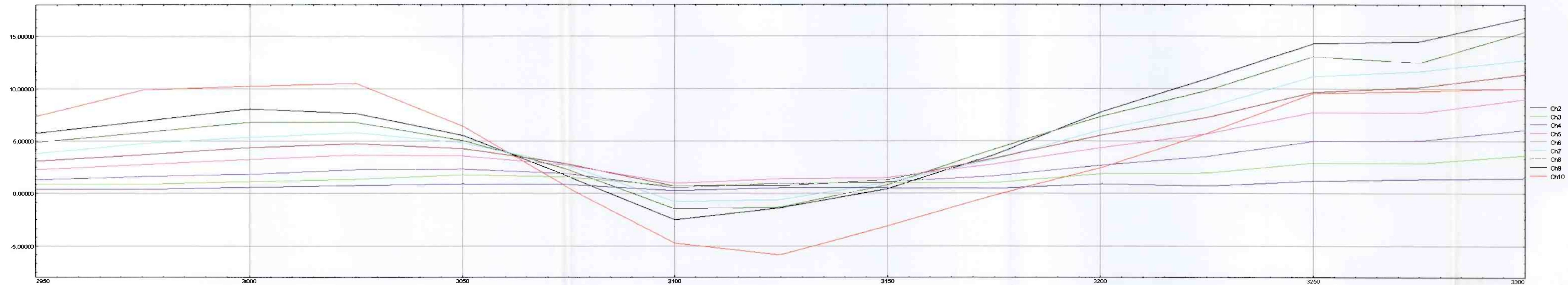
ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

Section L11600E
(looking grid west)
ES2004-09 and ES2005-18, 19
Drillhole with Nickel Assay % on Left (Ni > 0.5 in Red),
Major and Minor Lithology on Right

Date: November 2005.

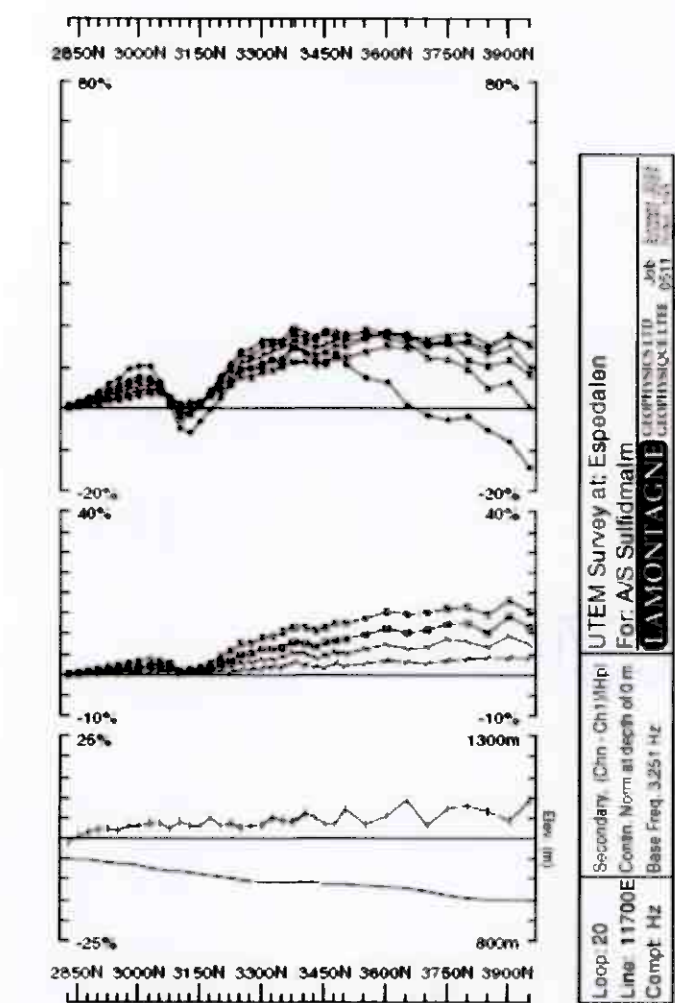
Approved: P.Tirschmann

L11700E UTEM Profiles



Database: c:\monway\espedalen\documents\drilling\utem_profiles\2005\desktop\20_monway\utem_profiles\L11700

2005/11/02



Major and Minor Lithology Descriptions

- 1 (Ultramylonite)
- 10 (Mylonitic Metavolcanic)
- 10a (Massive Flows)
- 10b (Flowed Flows)
- 10c (Tuffs)
- 10d (Volcaniclastic)
- 10e (Metavolcanic Schists)
- 10f (Mylonitic dykes)
- 11 (Intermediate Metavolcanics)
- 11a (Massive Flows)
- 11b (Tuffs)
- 11c (Volcaniclastic)
- 11d (Metavolcanic Schists)
- 11e (Intermediate dykes)
- 12 (Felsic Metavolcanics)
- 12a (Massive Flows)
- 12b (Tuffs)
- 12c (Volcaniclastic)
- 12d (Metavolcanic Schists)
- 12e (Felsic dykes)
- 2 (Charnokite)
- 3 (Granitic Augen Gneiss)
- 4 (Anorthositic / Anorthositic Gabbro)
- 4s (Sausenitized/Tectonized Anorthositic)
- 5 (Undivided Metasediments)
- 5a (Siliceous Metasediments)
- 5b (Pelitic Metasediments)
- 6 (Undivided Ultramylonitic Intrusive)
- 6a (Dunite)
- 6b (Pseudotachylite)
- 6c (Oikoclastic Pyroxenite)
- 6d (Pyroxenite)
- 6e (Ultramylonitic Schist)
- 6f (Nephelinitic)
- 7 (Undivided Mafic Intrusive)
- 7a (Gabbroic)
- 7b (Diorite)
- 8 (Dyke)
- 8a (Dolerite)
- 8b (Lamprophyre)
- 8c (Felsic)
- 8d (Applite)
- 8e (Pyroxenite)
- 8f (Aphanitic UM Dyke)
- C (Casing)
- EOH (End of Hole)
- MS (MASSIVE SULPHIDE (>75%))

UTEM Conductor

UTEM Plate

Borehole EM

In hole

Off hole

In hole edge

ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

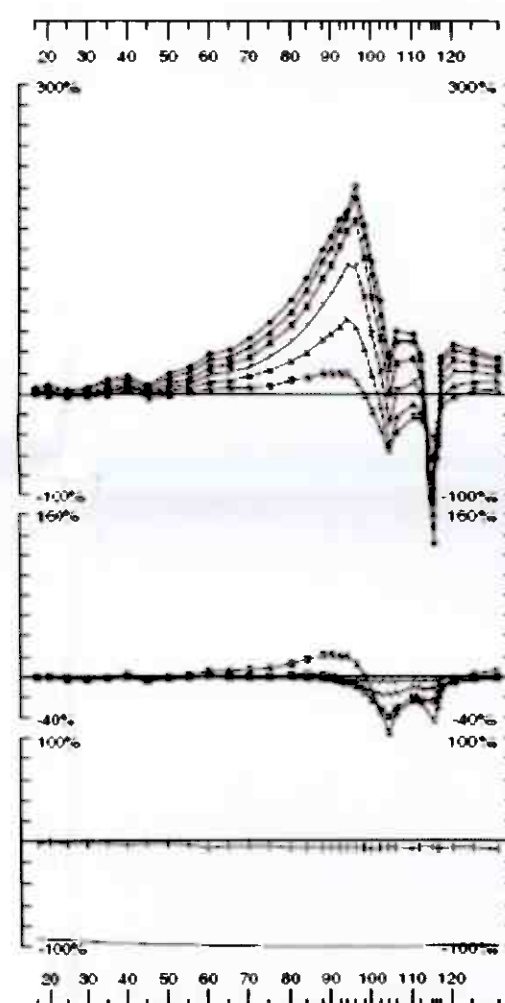
Section L11700E
(looking grid west)

ES2005-24, 31 and 32

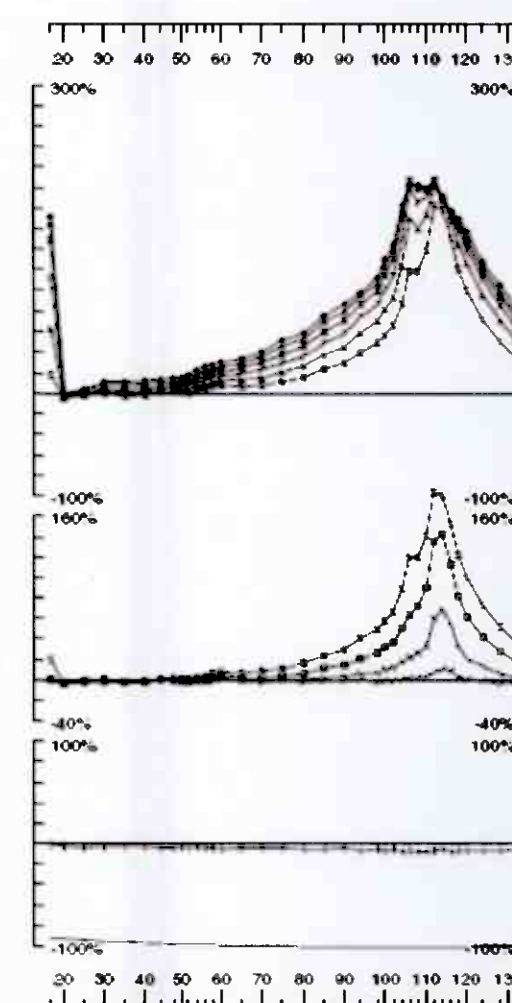
Drillhole with Nickel Assay % on Left (Ni > 0.5 in Red),
Major and Minor Lithology on Right

Date: November 2005.

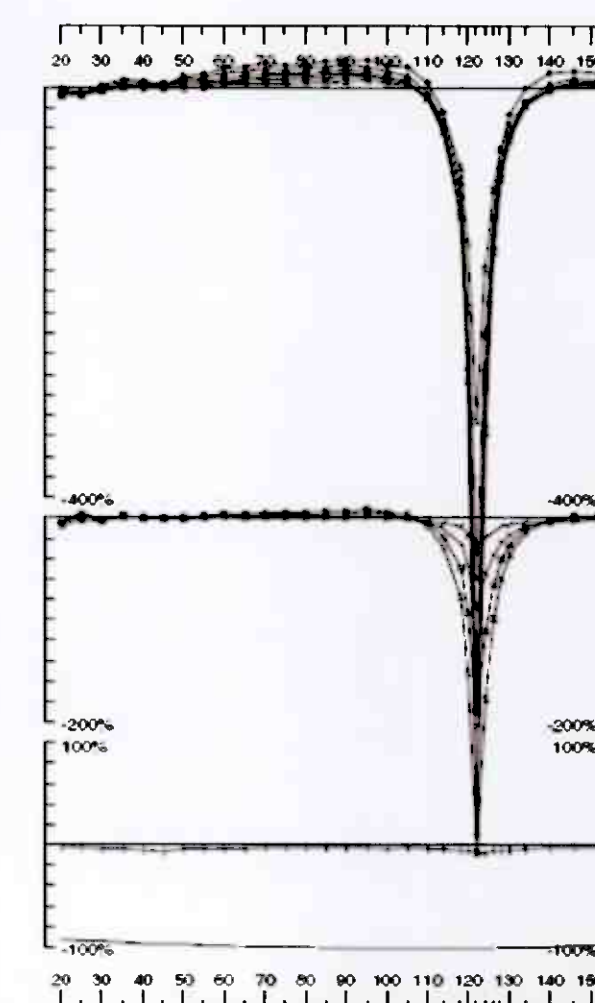
Approved: P.Tirschmann



Loop 20a
BHUTEM Survey at Espedalen
For A/S Sulfidmalm
L11700E
Base Freq 3.25 Hz
Comp: A/S



Loop 20a
BHUTEM Survey at Espedalen
For A/S Sulfidmalm
L11700E
Base Freq 3.25 Hz
Comp: A/S



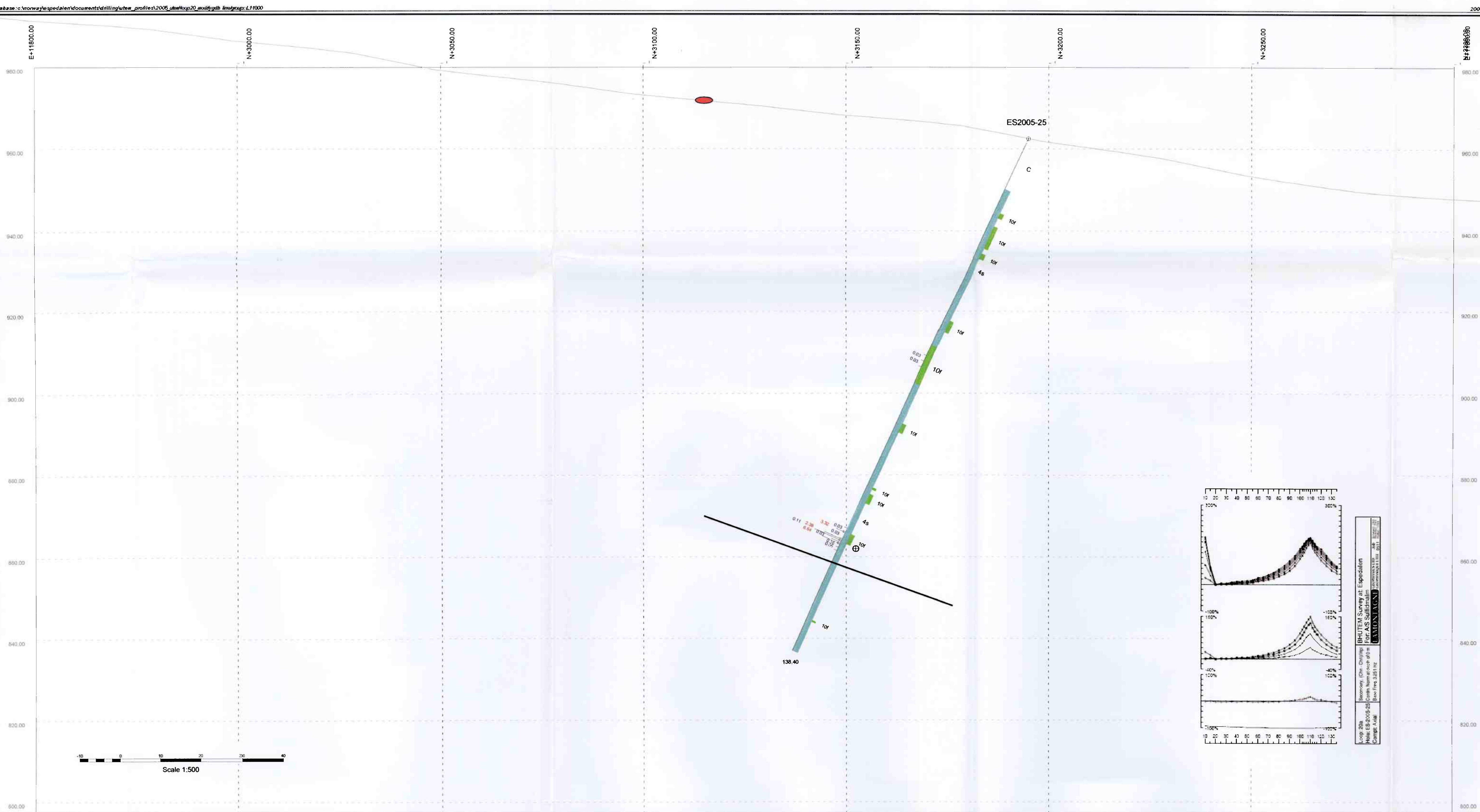
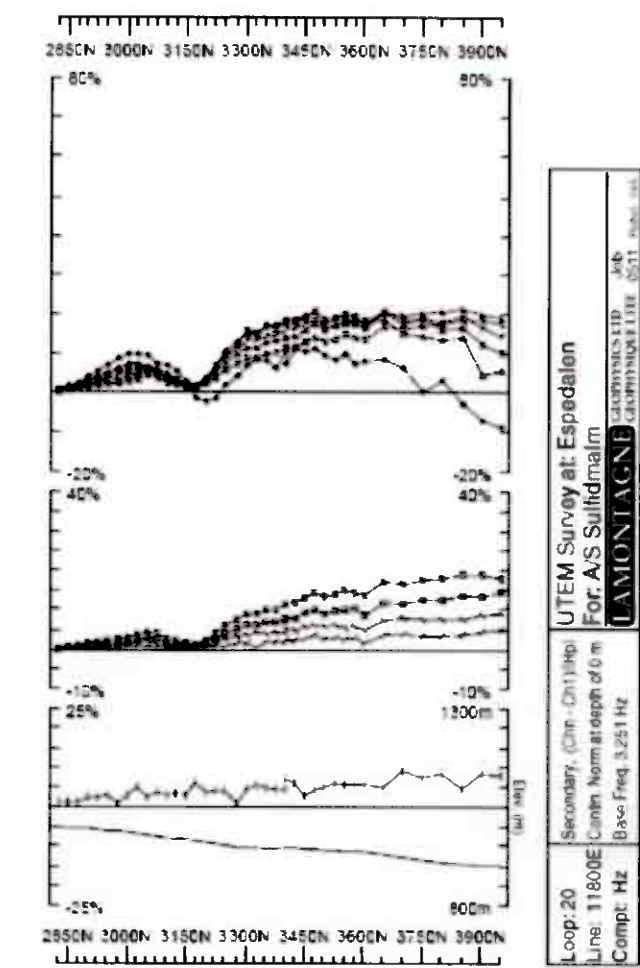
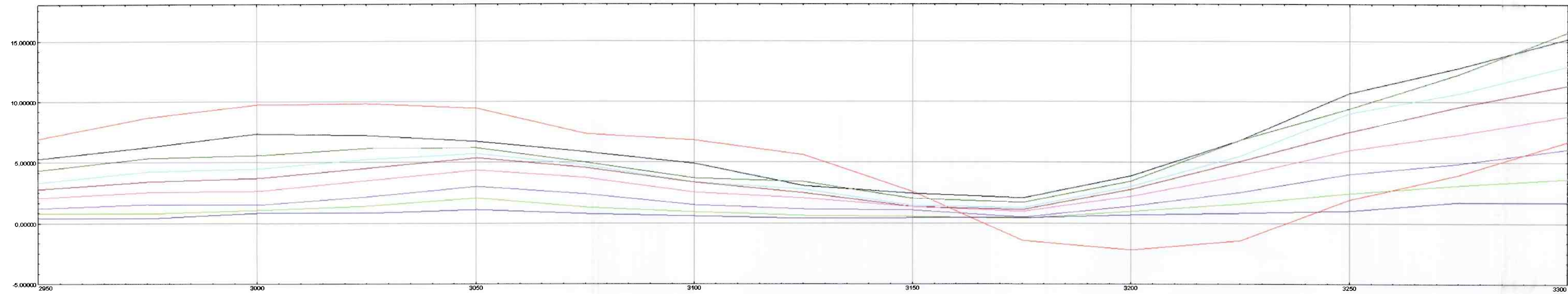
Loop 20a
BHUTEM Survey at Espedalen
For A/S Sulfidmalm
L11700E
Base Freq 3.25 Hz
Comp: A/S

Scale 1:500

VEDLEGG
J nr. 2159/05

Map 21

L11800E UTEM Profiles



- ## Major and Minor Lithology Descriptions
- 1 (Jokune)
 - 10 (Mafic Metavolcanic)
 - 10a (Massive flows)
 - 10b (Flowed flows)
 - 10c (Tuffs)
 - 10d (Volcaniclastic)
 - 10e (Metavolcanic Schist)
 - 10f (Mafic dykes)
 - 11 (Intermediate Metavolcanic)
 - 11a (Massive flows)
 - 11b (Tuffs)
 - 11c (Volcaniclastic)
 - 11d (Metavolcanic Schist)
 - 11e (Intermediate dykes)
 - 12 (Felsic Metavolcanic)
 - 12a (Massive flows)
 - 12b (Tuffs)
 - 12c (Volcaniclastic)
 - 12d (Metavolcanic Schist)
 - 12e (Felsic dykes)
 - 2 (Charnockite)
 - 3 (Granitic Augen Gneiss)
 - 4 (Anorthosite / Anorthositic Gabbro)
 - 4s (Sausenized/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 (Gabbro-norite)
 - 7b (Diorite)
 - 8 (Dyke)
 - 8a (Dolerite)
 - 8b (Lamprophyre)
 - 8c (Pegmatite)
 - 8d (Apophite)
 - 8e (Pyroxenite)
 - 8f (Aphanitic UM Dyke)
 - C (Casing)
 - EOH (End of Hole)
 - MS (MASSIVE SULPHIDE (>75%))

- UTEM Conductor
- UTEM Plate
- Borehole EM
- In hole
- Off hole
- In hole edge

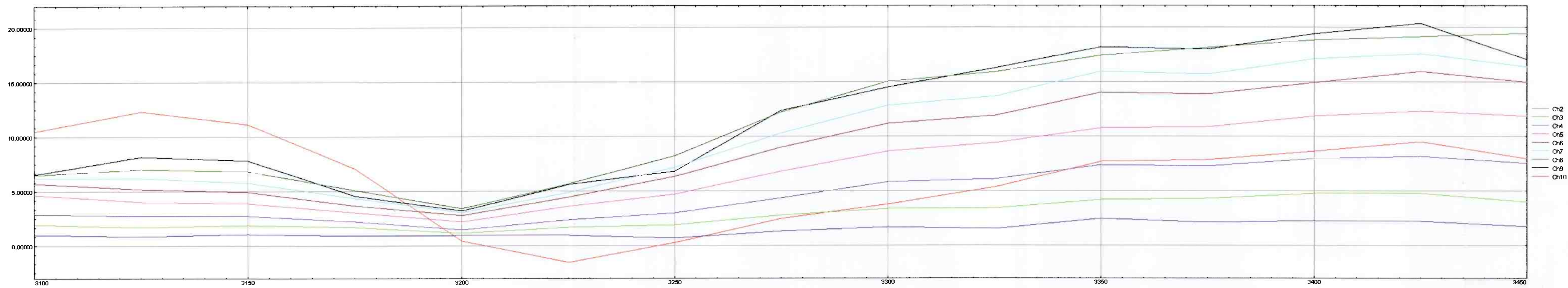
ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

Section L11800E
(looking grid west)
ES2005-25

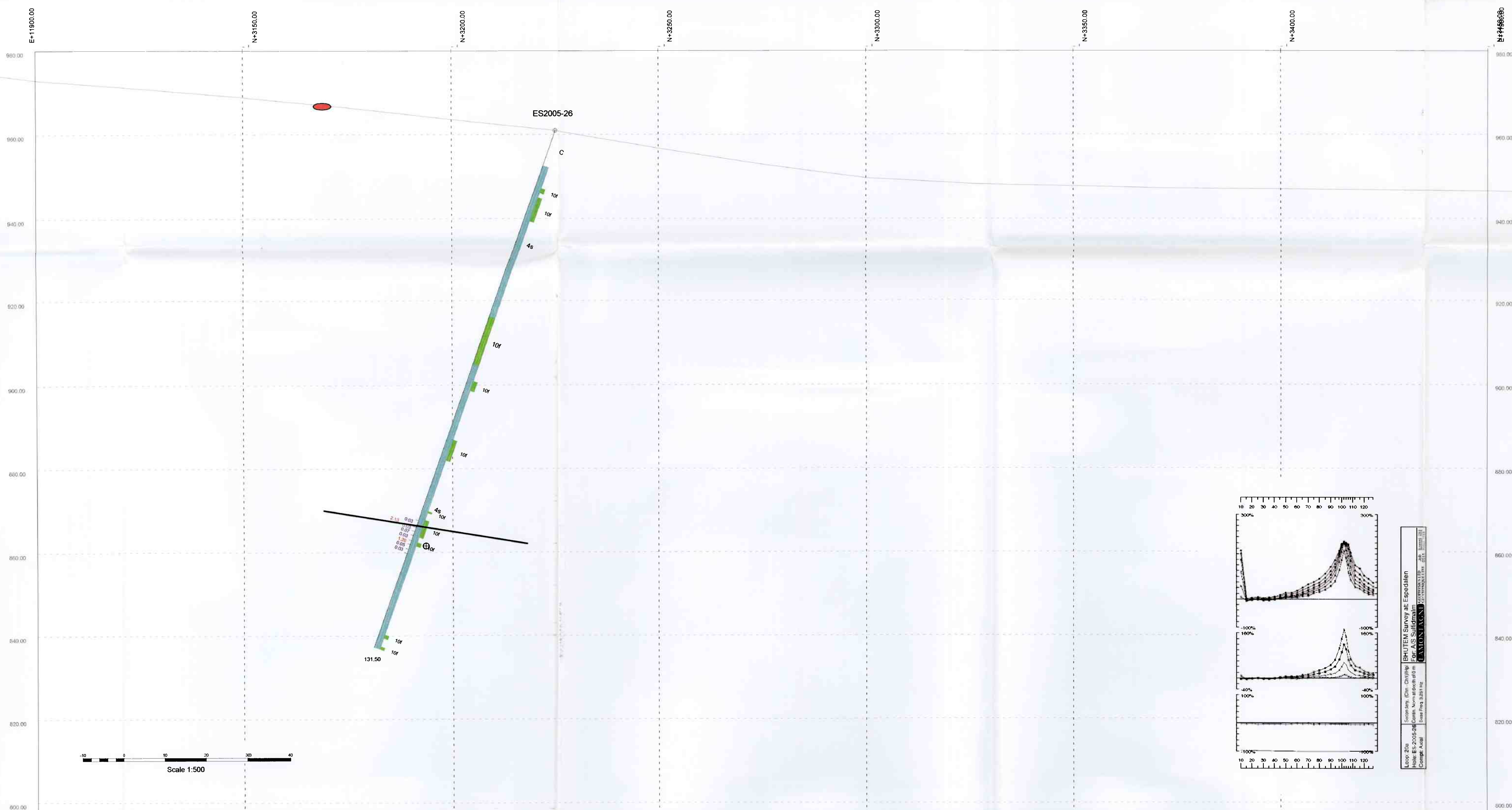
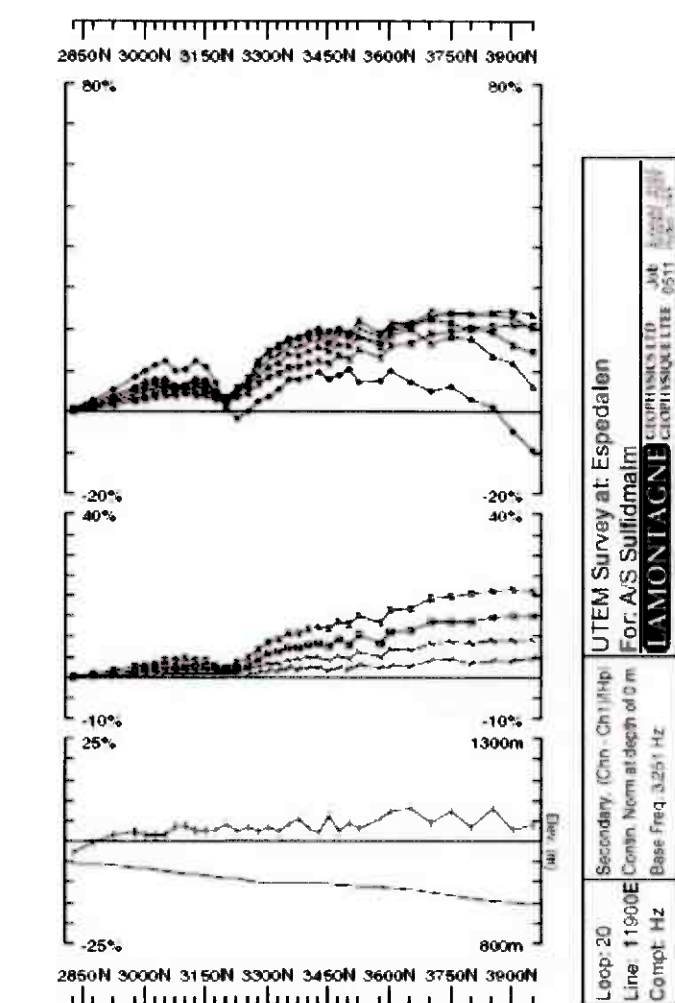
Drillhole with Nickel Assay % on Left (Ni > 0.5 in Red),
Major and Minor Lithology on Right

Date: November 2005. Approved: P.Tirschmann

L11900E UTEM Profiles



database: c:\norway\espedalen\documents\drilling\item_profiles\2005\item0020_modify.gdb linegroup: L11900



- ### Major and Minor Lithology Descriptions

- 1 (Jokanite)
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 Metavolcanic)
12a (Massive Flows)
12b (Tuffs)
12c (Volcaniclastics)
12d (Metavolcanic Schists)
12e (Felsic dykes)
2 (Charnokite)
3 (Granitic Augen Gneiss)
4 (Anorthositic / Anorthositic Gabbro)
4s (Sauszenitoid / Teclonized Anorthosit)
5 (Unindurated Metasediments)
5a (Siliceous Metasediments)
5b (Felsic Metasediments)
6 (Unindurated Ultramafic Intrusive)
6a (Dunite)
6b (Pseudotite)
6c (Dioctocystic Pyroxenite)
6d (Pyroxenite)
6e (Ultramafic Schist)
6f (Nortite)
7 (Unindurated Mafic Intrusive)
7a (Gabbrotonite)
7b (Diorite)
8 (Dyke)
8a (Dolerite)
8b (Lampophyre)
8c (Pegmatite)
8d (Apfite)
8e (Pyroxenite)
8f (Aphanitic UM Dyke)
C (Casing)
EHF (End of Hole)
MS (MASSIVE SULPHIDE >75%)

 UTEM Conductor

UTEM Plate

Borehole EM

⊕ In hole

 Off hook

⊥

VEDLEGG.....av.....
J.nr. 2159/05

Mar 23

ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

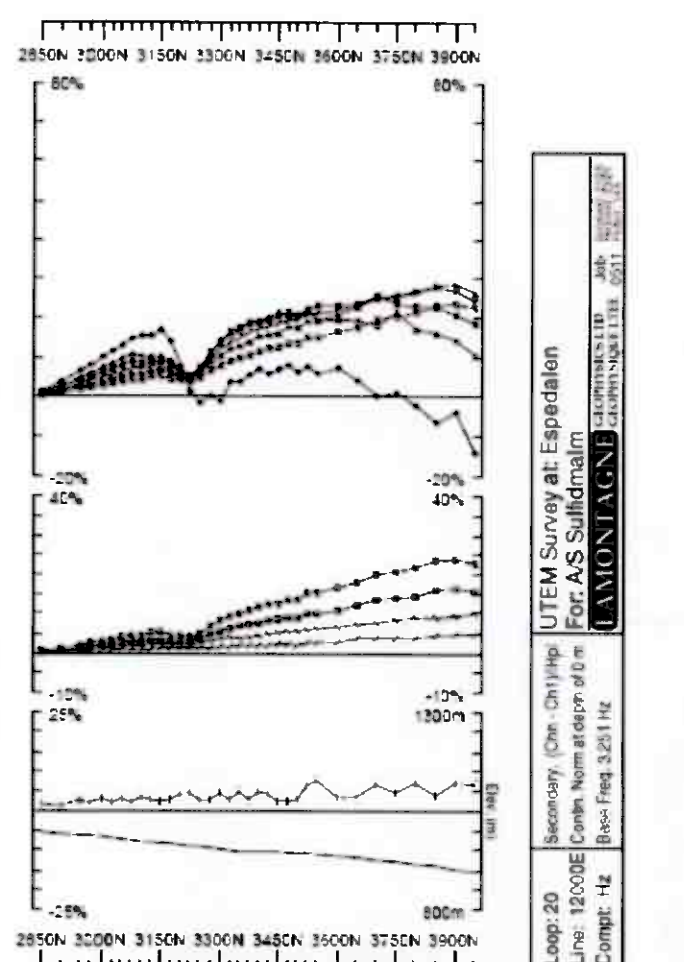
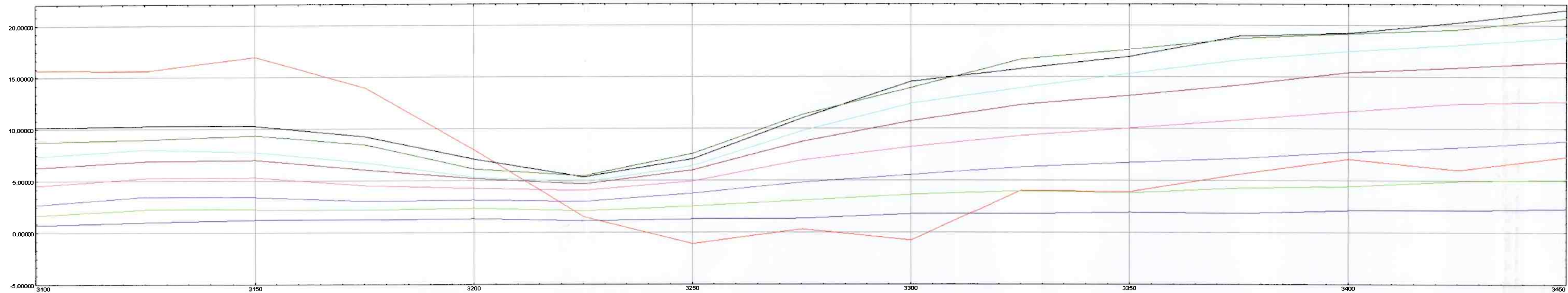
Section L11900E
(looking grid west)
ES2005-26

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

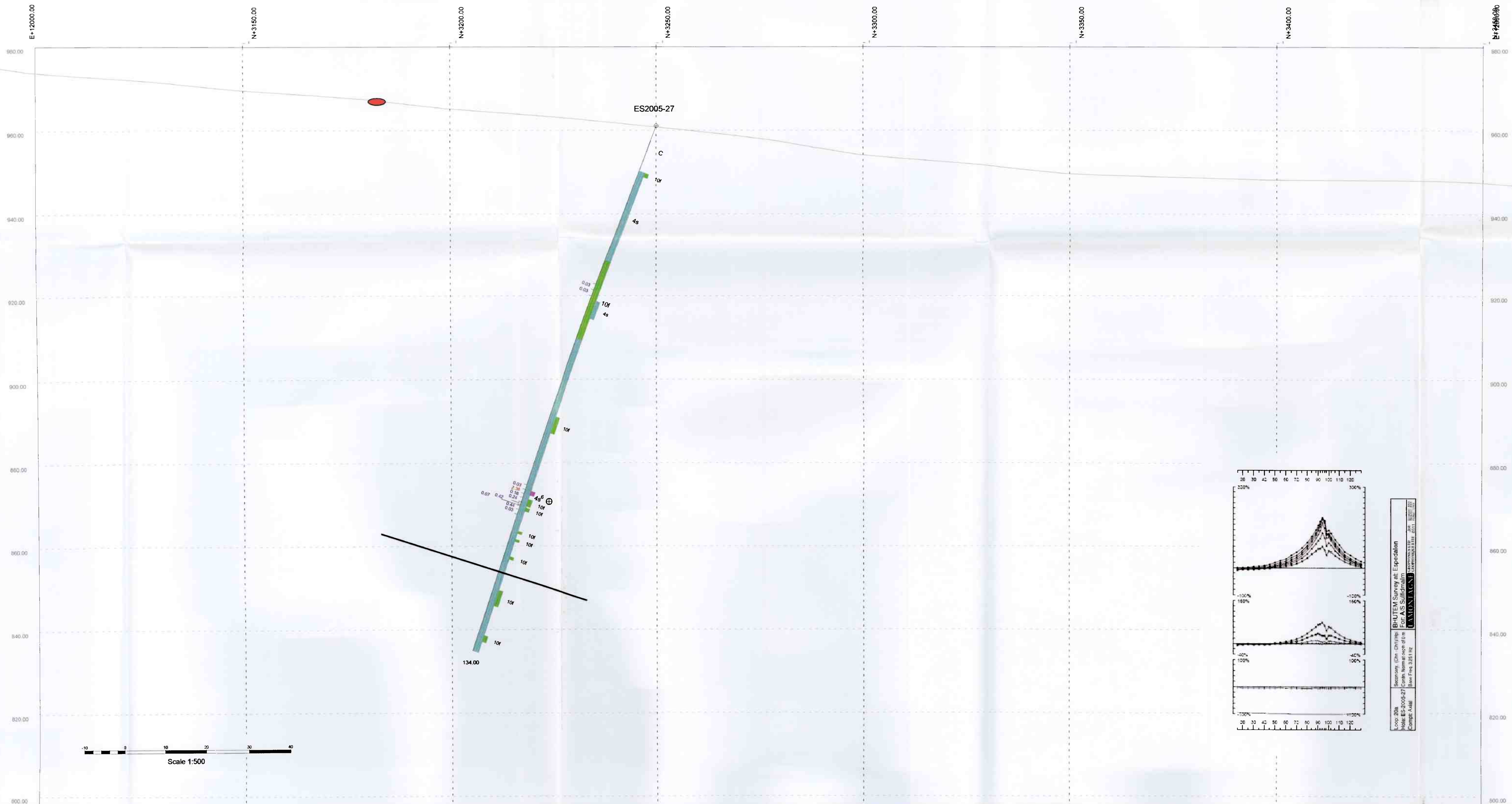
Date: November 2005.

Approved: P.Tirschmann

L12000E UTEM Profiles



database: c:\norway\espedalen\documents\drilling\utem_profiles\2005\utemxp20.mxd\gdb\imggroup: L12000 2005/11/02



Major and Minor Lithology Descriptions

- 1 (Jotunite)
- 10 (Mafic Metavolcanic)
- 10a (Massive flows)
- 10b (Flowed flows)
- 10c (Tuffs)
- 10d (Volcaniclastics)
- 10e (Metavolcanic Schists)
- 10f (Mafic dykes)
- 11 (Intermediate Metavolcanic)
- 11a (Massive Flows)
- 11b (Tuffs)
- 11c (Volcaniclastics)
- 11d (Metavolcanic Schists)
- 11e (Intermediate dykes)
- 12 (Felsic Metavolcanic)
- 12a (Massive Flows)
- 12b (Tuffs)
- 12c (Volcaniclastics)
- 12d (Metavolcanic Schists)
- 12e (Felsic dykes)
- 2 (Charnockite)
- 3 (Granitic Augen Gneiss)
- 4 (Anorthosite / Anorthositic Gabbro)
- 4a (Saussuritized / Tectonized Anorthosite)
- 5 (Undivided Metasediments)
- 5a (Siliceous Metasediments)
- 5b (Pelitic Metasediments)
- 6 (Undivided Ultramafic Intrusive)
- 6a (Dunite)
- 6b (Pseudotuff)
- 6c (Oikocystic Pyroxenite)
- 6d (Pyroxenite)
- 6e (Ultramafic Schist)
- 6f (Nortite)
- 7 (Undivided Mafic Intrusive)
- 7a (Gabbro-nortite)
- 7b (Diorite)
- 8 (Dyke)
- 8a (Dolerite)
- 8b (Lamprophyre)
- 8c (Pegmatite)
- 8d (Apfite)
- 8e (Pyroxenite)
- 8f (Aphanitic UM Dyke)
- C (Casing)
- EOH (End of Hole)
- MS (MASSIVE SULPHIDE (>75%))

UTEM Conductor
UTEM Plate

Borehole EM

- In hole
- Off hole
- In hole edge

VEDLEGG
J.nr. 2159/05

ESPEDALEN PROJECT - NORWAY Sulfidmalm A/S

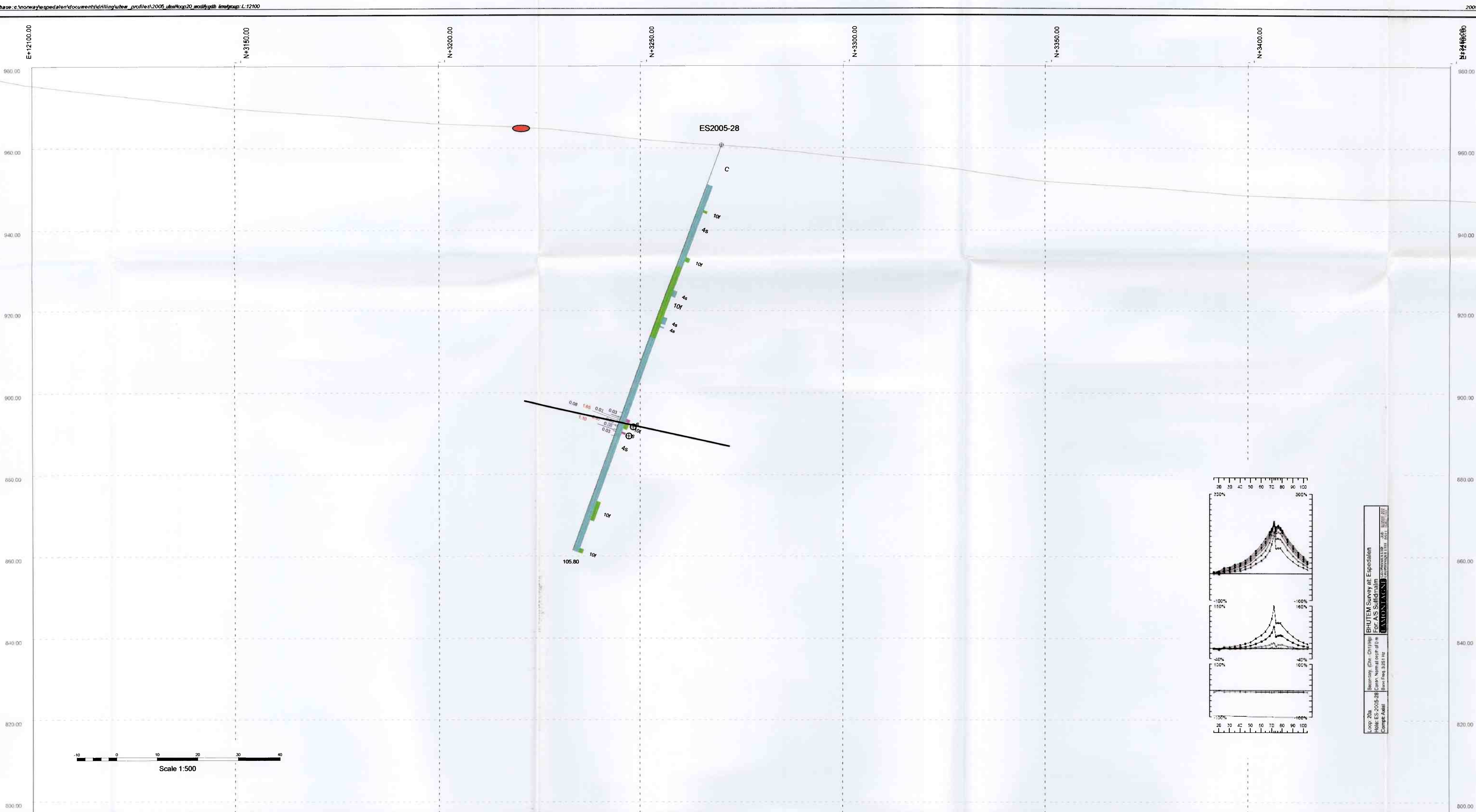
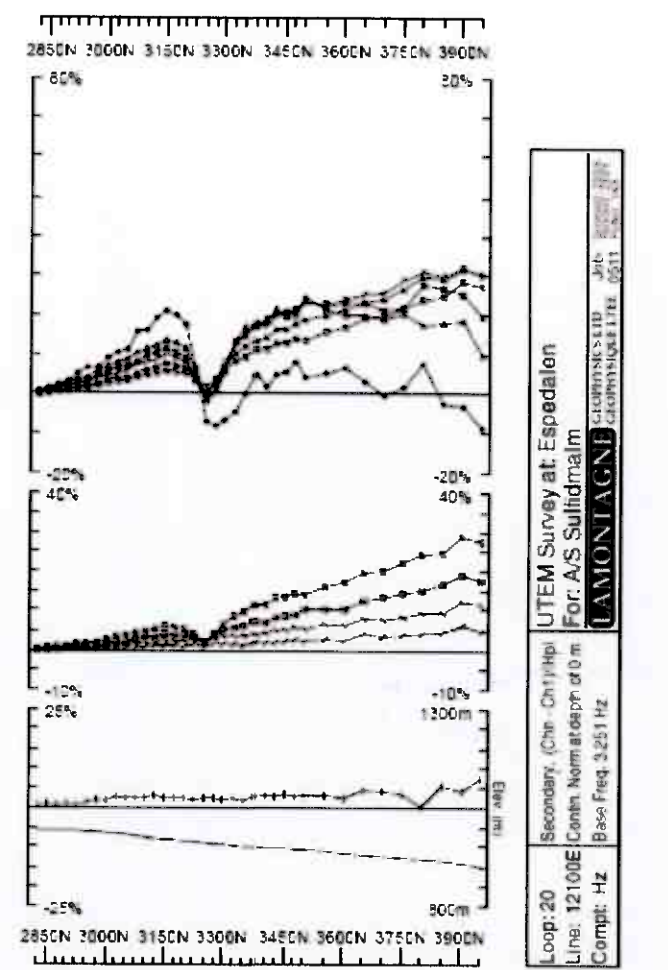
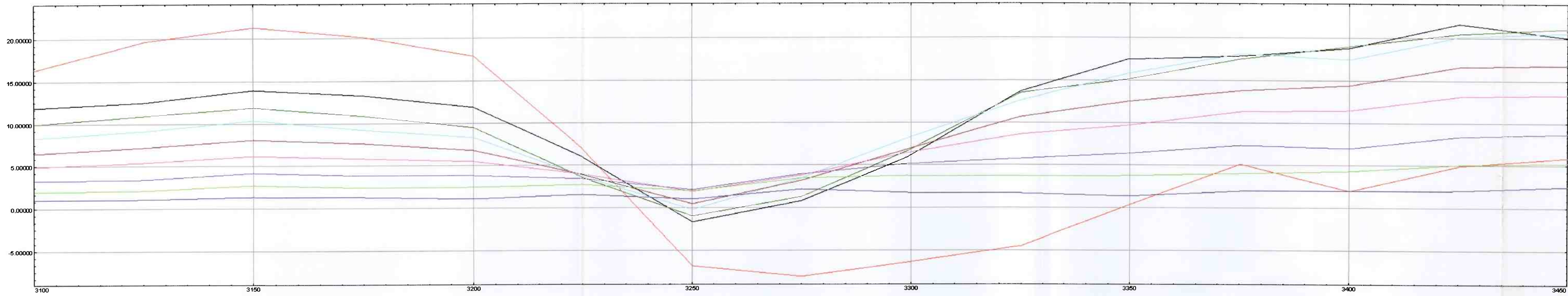
Section L12000E (looking grid west) ES2005-27

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

Date: November 2005.

Approved: P.Tirschmann

L12100E UTEM Profiles



Major and Minor Lithology Descriptions

- 1 (Ultramylonite)
- 10 (Mafic Metavolcanic)
- 10a (Massive flows)
- 10b (Flowed flows)
- 10c (Tuffs)
- 10d (Volcaniclastic)
- 10e (Metavolcanic Schists)
- 10f (Mafic dykes)
- 11 (Intermediate Metavolcanic)
- 11a (Massive Flows)
- 11b (Tuffs)
- 11c (Volcaniclastic)
- 11d (Metavolcanic Schists)
- 11e (Intermediate dykes)
- 12 (Felsic Metavolcanic)
- 12a (Massive Flows)
- 12b (Tuffs)
- 12c (Volcaniclastic)
- 12d (Metavolcanic Schists)
- 12e (Felsic dykes)
- 2 (Charnokite)
- 3 (Granitic Augen Gneiss)
- 4 (Anorthosite / Anorthositic Gabbro)
- 4s (Sausseized/Tectonized Anorthosite)
- 5 (Undivided Metasediments)
- 5a (Siliceous Metasediments)
- 5b (Felsic Metasediments)
- 6 (Undivided Ultramafic Intrusive)
- 6a (Dunite)
- 6b (Peridotite)
- 6c (Olivoclastic Pyroxenite)
- 6d (Pyroxenite)
- 6e (Ultramafic Schist)
- 6f (Norte)
- 7 (Undivided Mafic Intrusive)
- 7a (Gabbroite)
- 7b (Diorite)
- 8 (Dyke)
- 8a (Dolerite)
- 8b (Lampophyre)
- 8c (Pyroxenite)
- 8d (Applite)
- 8e (Pyroxenite)
- 8f (Aphanitic UM Dyke)
- C (Casing)
- EOH (End of Hole)
- MS (MASSIVE SULPHIDE (>75%))

UTEM Conductor
UTEM Plate

Borehole EM

- In hole
- Off hole
- In hole edge

VEDLEGG
J.nr. 2159/105

MAR 25

ESPEDALEN PROJECT - NORWAY Sulfidmalm A/S

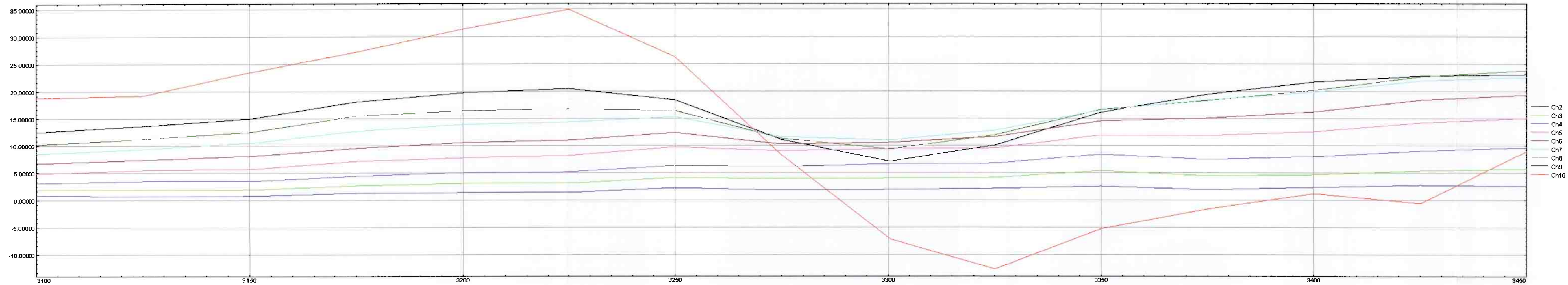
Section L12100E (looking grid west) ES2005-28

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

Date: November 2005.

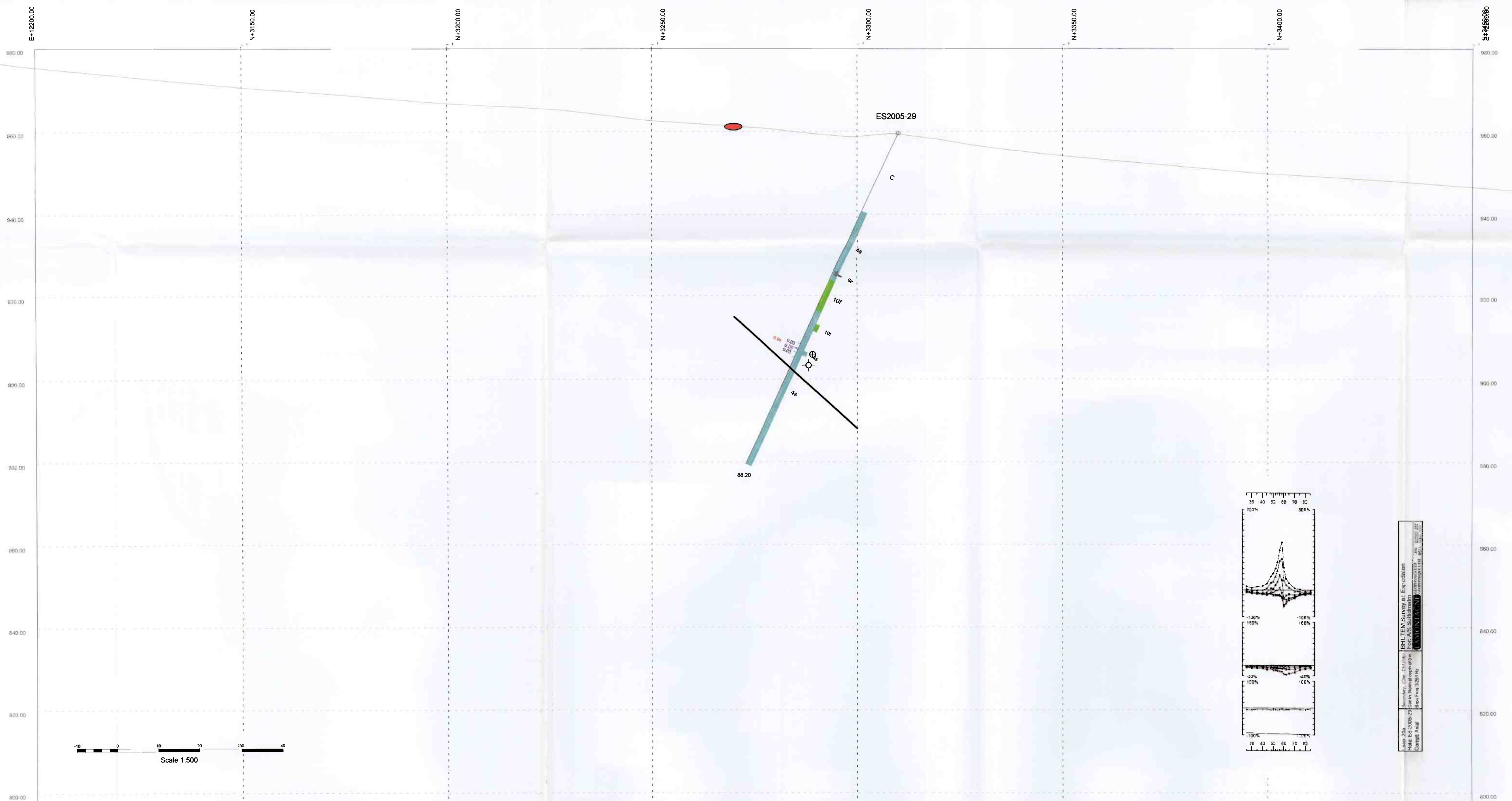
Approved: P.Tirschmann

L12200E UTEM Profiles



database: c:\norway\espda\en\documents\drilling\lute\profiles\2005\lute\loop20_west\gdb\lute\group: L12200

2005/11/02



Major and Minor Lithology Descriptions

- 1 (Jshulte)
- 10 (Mafic Metavolcanic)
- 10a (Massive flows)
- 10b (Flowed 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 (Charnokite)
- 3 (Granitic Augen Gneiss)
- 4 (Anorthosite / Anorthositic Gabbro)
- 4a (Saussuritized/Tectonized Anorthosite)
- 5 (Undivided Metasediments)
- 5a (Siliceous Metasediments)
- 5b (Pelitic Metasediments)
- 6 (Undivided Ultramafic Intrusive)
- 6a (Dunite)
- 6b (Pseudotuff)
- 6c (Oikocystic Pyroxenite)
- 6d (Pyroxenite)
- 6e (Ultramafic Schist)
- 6f (Norite)
- 7 (Undivided Mafic Intrusive)
- 7a (Gabbroic)
- 7b (Diorite)
- 8 (Dyke)
- 8a (Diorite)
- 8b (Lamprophyre)
- 8c (Pegmatite)
- 8d (Aplite)
- 8e (Pyroxenite)
- 8f (Aphanitic UM Dyke)
- C (Casing)
- EOH (End of Hole)
- MS (MASSIVE SULPHIDE (>75%))

UTEM Conductor

UTEM Plate

Borehole EM

In hole

Off hole

In hole edge

VEDLEGG
J.nr. 2159/05

Map 26

ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

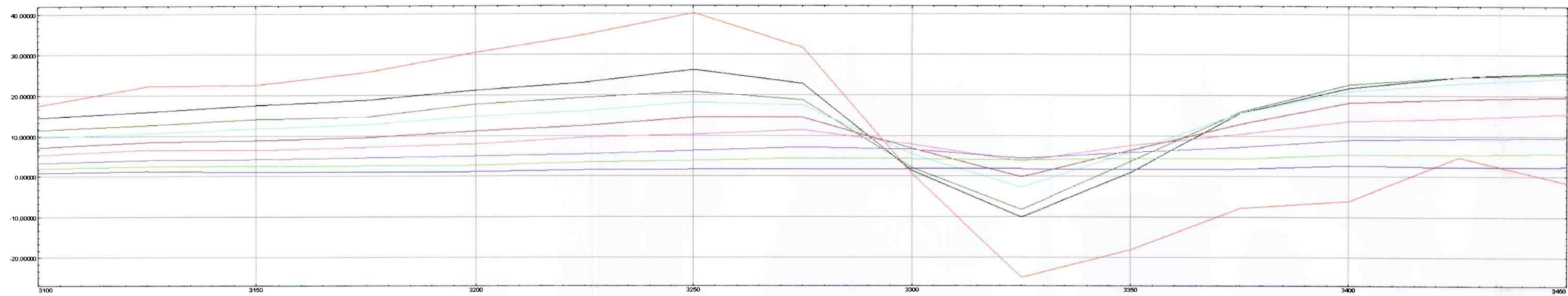
Section L12200E
(looking grid west)
ES2005-29

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

Date: November 2005.

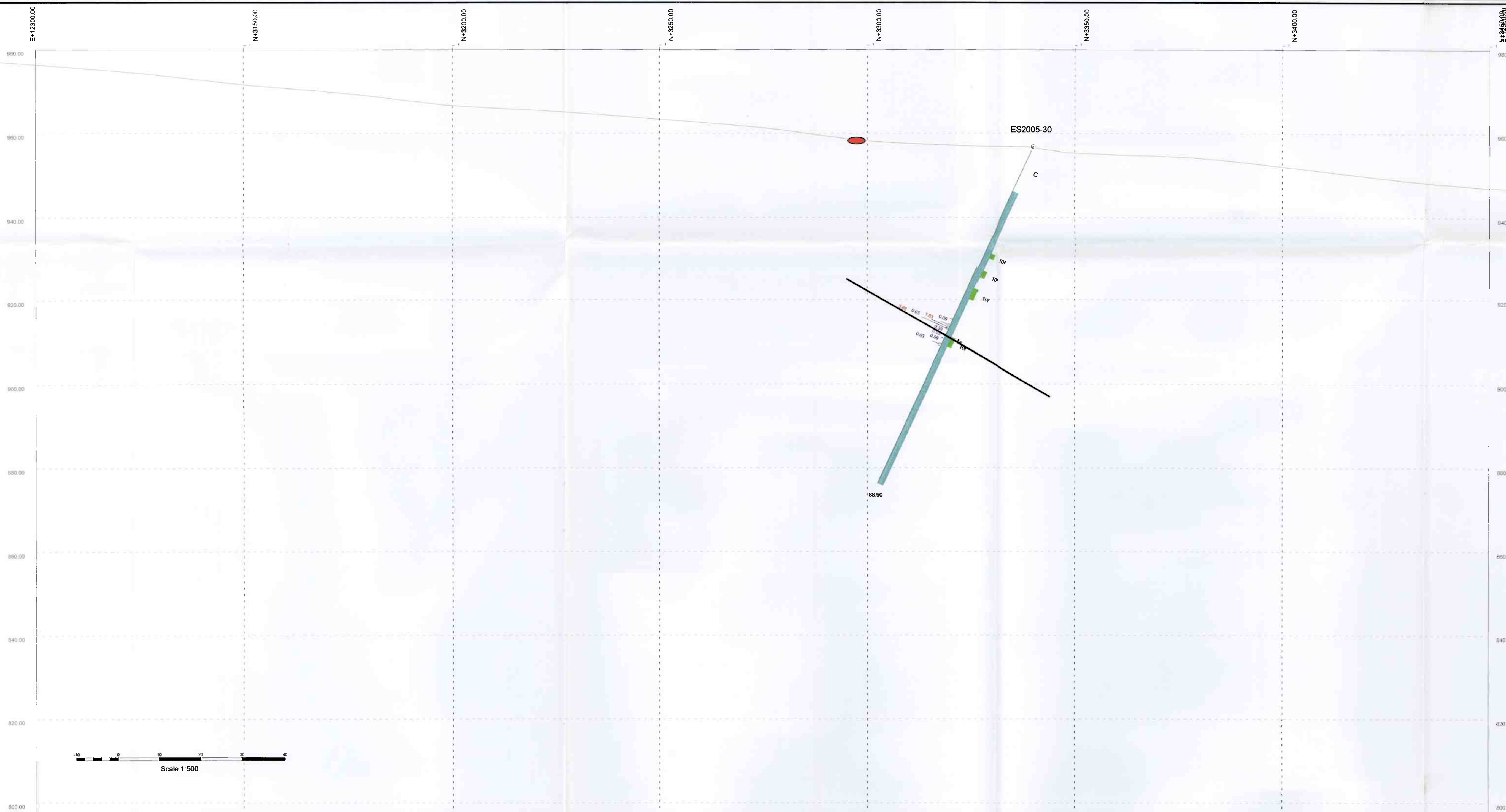
Approved: P.Tirschmann

L12300E UTEM Profiles

[illegible]

database: c:\ronway\hespedalen\documents\drilling\utem_profiles\2005_ute\loop20_modify\gdb_linegroup: L12300

2005/11/02



Major and Minor Lithology Descriptions

- 1 (Jutunite)
- 10 (Mafic Metavolcanic)
 - 10a (Massive Flows)
 - 10b (Pillowd Flows)
 - 10c (Tufts)
 - 10d (Volcaniclastics)
 - 10e (Metavolcanic Schists)
 - 10f (Mafic dykes)
- 11 (Intermediate Metavolcanics)
 - 11a (Massive Flows)
 - 11b (Tufts)
 - 11c (Volcaniclastics)
 - 11d (Metavolcanic Schists)
 - 11e (Intermediate dykes)
- 12 (Felsic Metavolcanics)
 - 12a (Massive Flows)
 - 12b (Tufts)
 - 12c (Volcaniclastics)
 - 12d (Metavolcanic Schists)
 - 12e (Felsic dykes)
- 2 (Charnockite)
- 3 (Granitic Augen Gneiss)
- 4 (Anorthosite / Anorthositic Gabbro)
 - 4s (Sausenized / Tectonized Anorthositic)
- 5 (Undivided Metasediments)
 - 5a (Siliceous Metasediments)
 - 5b (Felsic Metasediments)
- 6 (Undivided Ultramafic Intrusive)
 - 6a (Dunite)
 - 6b (Pseudotite)
 - 6c (Oikocrystic Pyroxenite)
 - 6d (Pyroxenite)
 - 6e (Ultramafic Schist)
 - 6f (Norite)
- 7 (Undivided Mafic Intrusive)
 - 7a (Gabbrobronite)
 - 7b (Dionite)
- 8 (Dyke)
 - 8a (Dolerite)
 - 8b (Lamprophyne)
 - 8c (Fregnoite)
 - 8d (Apfite)
 - 8e (Pyroxenite)
 - 8f (Apharitic UM Dyke)
- C (Casing)
- EOH (End of Hole)
- MS (MASSIVE SULPHIDE (>75%))


UTEM Conductor

UTEM Plate

Borehole EM

⊕ In hole

⊕ Off hole

□ In hole edge

VEDLEGG.....av.....
J.nr. 2159/05.....

MAP 27

ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

Section I 12300E

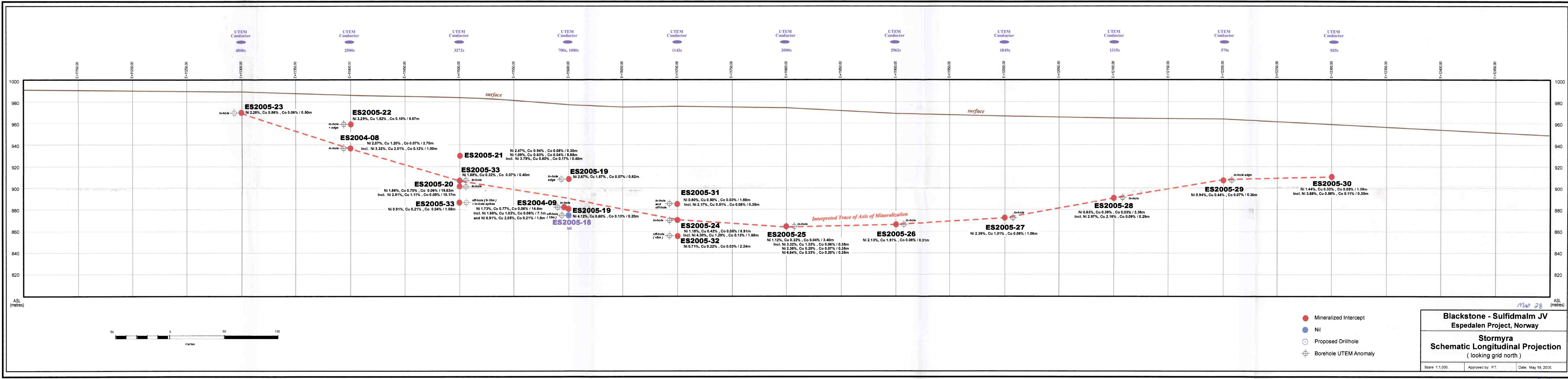
(looking grid west)

ES2005-30

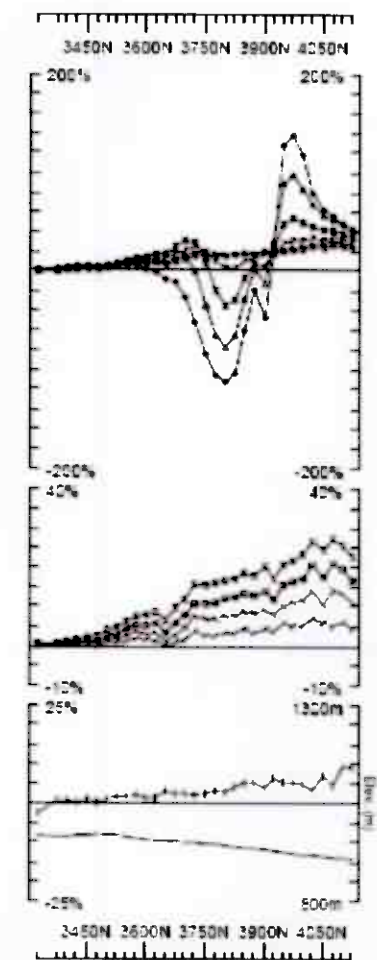
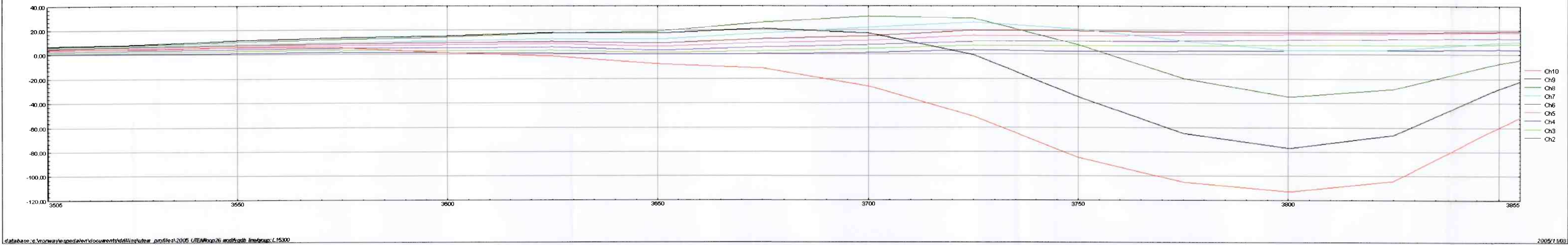
Drillhole with Nickel Assay % on Left (Ni > 0.5 in Red),
Major and Minor Lithology on Right

Date: November 2005.

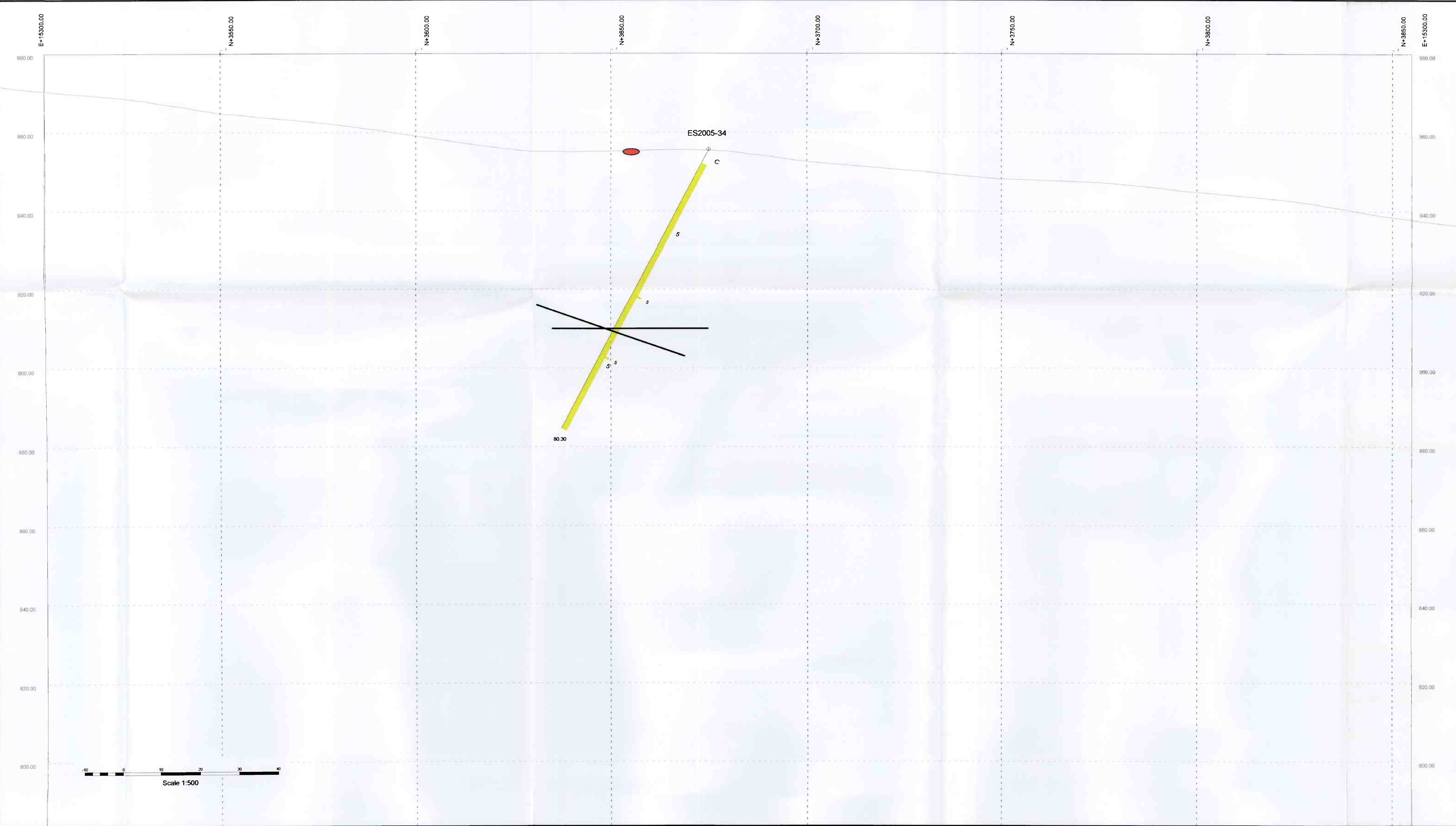
Approved: P.Tirschmann



L15300E UTEM Profiles



UTEM Survey at Espedalen
For AS Sulfidmalm
Canton AG
Scale: 1:500
Date: 2005-11-29
Compiled: 14



Major and Minor Lithology Descriptions

- 1 (Granite)
- 10 (Mafic Metavolcanic)
- 10a (Massive flows)
- 10b (Flowed flows)
- 10c (Tuffs)
- 10d (Volcaniclastic)
- 10e (Metavolcanic Schists)
- 10f (Mafic dykes)
- 11 (Intermediate Metavolcanics)
- 11a (Massive Flows)
- 11b (Tuffs)
- 11c (Volcaniclastic)
- 11d (Metavolcanic Schists)
- 11e (Intermediate dykes)
- 12 (Felsic Metavolcanics)
- 12a (Massive Flows)
- 12b (Tuffs)
- 12c (Volcaniclastic)
- 12d (Metavolcanic Schists)
- 12e (Felsic dykes)
- 2 (Charnokite)
- 3 (Granitic Augen Gneiss)
- 4 (Anorthosite / Anorthositic Gabbro)
- 4s (Sassanoid / Tectonized Anorthosite)
- 5 (Undivided Metasediments)
- 5a (Siliceous Metasediments)
- 5b (Pelitic Metasediments)
- 6 (Undivided Ultramafic Intrusive)
- 6a (Diorite)
- 6b (Pegmatite)
- 6c (Diktycystic Pyroxenite)
- 6d (Pyroxenite)
- 6e (Ultramafic Schist)
- 6f (Nepheline)
- 7 (Undivided Mafic Intrusive)
- 7a (Gabbroanorthite)
- 7b (Diorite)
- 8 (Dyke)
- 8a (Dolerite)
- 8b (Lamprophyre)
- 8c (Fegmatite)
- 8d (Aplite)
- 8e (Pyroxenite)
- 8f (Aphonic UM Dyke)
- C (Camp)
- EOH (End of Hole)
- MS (MASSIVE SULPHIDE >75%)

UTEM Conductor

UTEM Plate

Borehole EM

In hole

Off hole

In hole edge

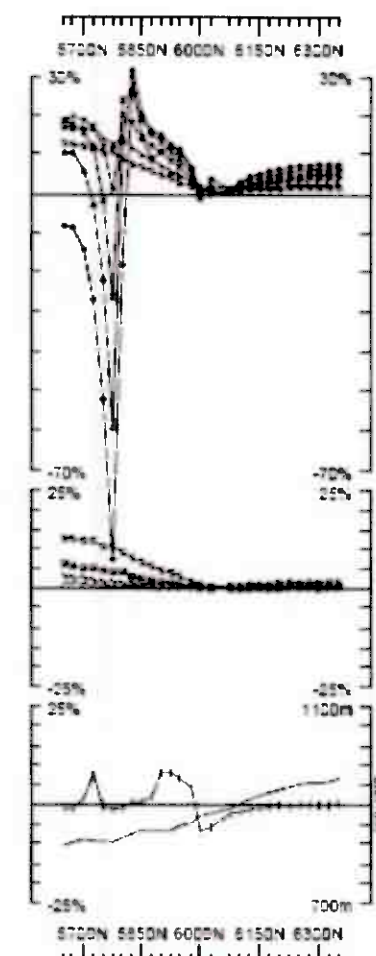
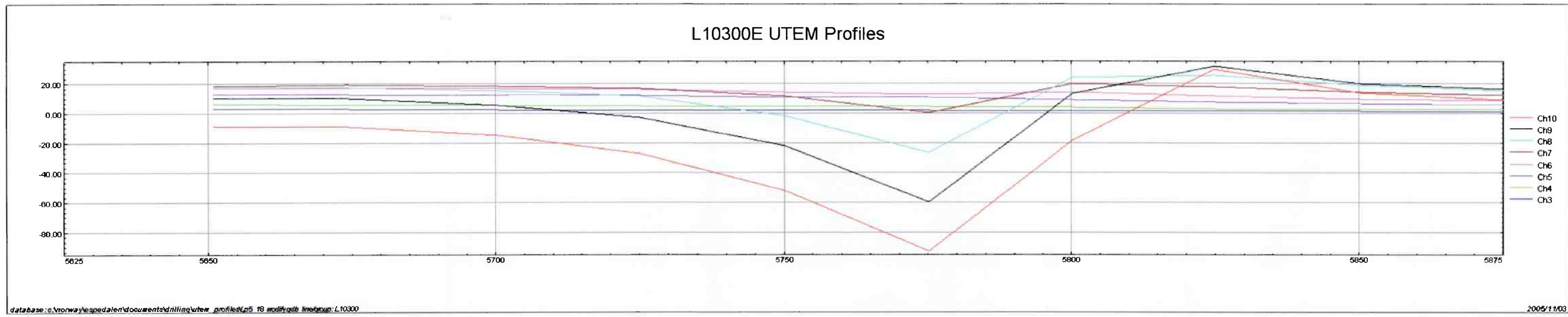
VEDLEGG
J.nr. 2159/05

ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

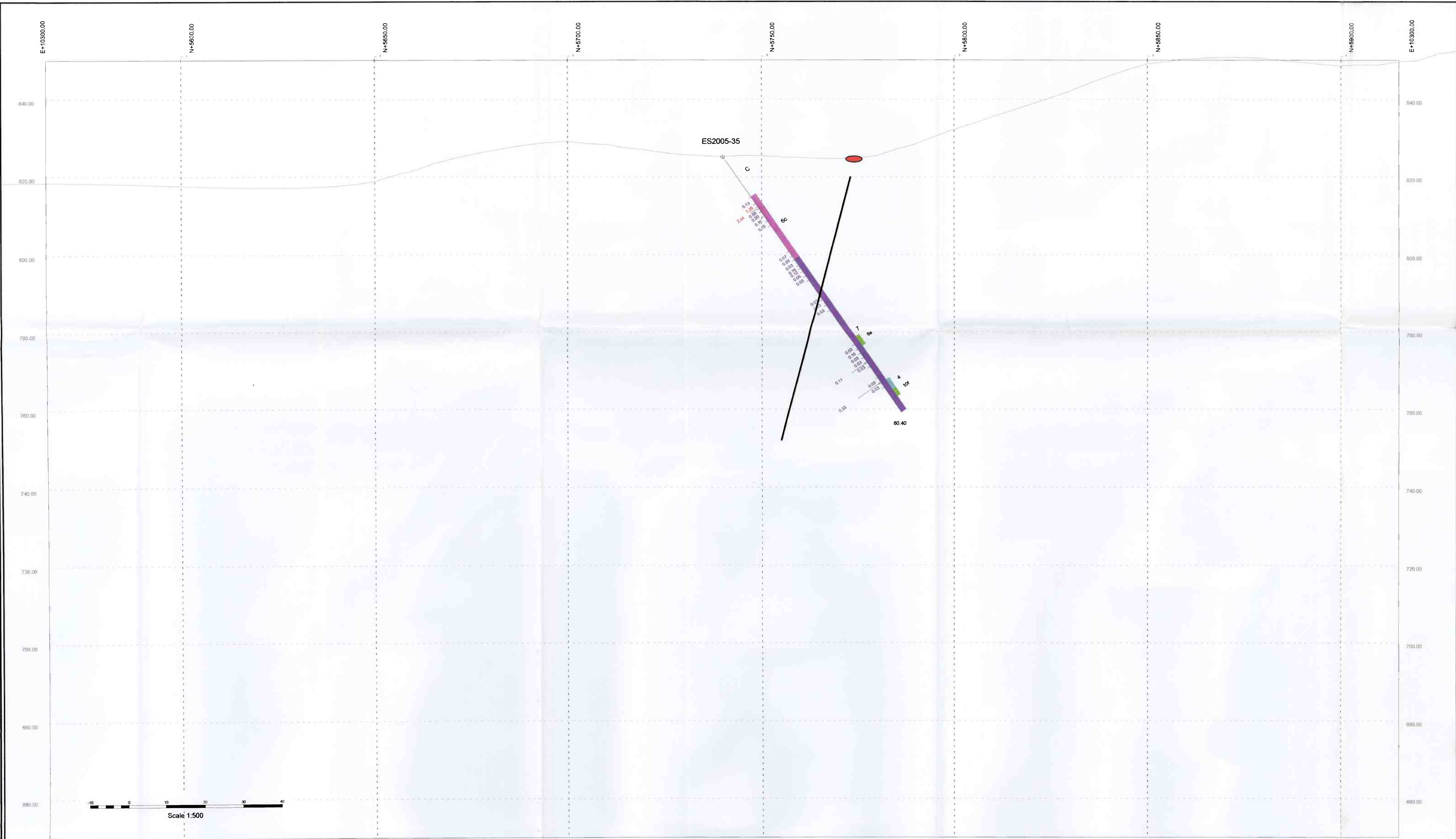
Section L15300E
(looking grid west)
ES2005-34

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

Date: November 2005. Approved: P.Tirschmann



UTEM Survey at: Espedalen
Loop: 13
Survey: (Ch: Ch10) (Ch: Ch9) (Ch: Ch8) (Ch: Ch7) (Ch: Ch6) (Ch: Ch5) (Ch: Ch4) (Ch: Ch3)
Comp: HZ
Base File: L10300E
Date: 2005/11/03



Major and Minor Lithology Descriptions

- 1 (Granite)
- 10 (Mafic Metavolcanic)
- 10a (Massive flows)
- 10b (Flowed flows)
- 10c (Tuffs)
- 10d (Volcaniclastics)
- 10e (Metavolcanic Schists)
- 10f (Mafic dykes)
- 11 (Intermediate Metavolcanic)
- 11a (Massive Flows)
- 11b (Tuffs)
- 11c (Volcaniclastics)
- 11d (Metavolcanic Schists)
- 11e (Intermediate dykes)
- 12 (Felsic Metavolcanic)
- 12a (Massive Flows)
- 12b (Tuffs)
- 12c (Volcaniclastics)
- 12d (Metavolcanic Schists)
- 12e (Felsic dykes)
- 2 (Charnockite)
- 3 (Granitic Augen Gneiss)
- 4 (Anorthositic / Anorthositic Gabbro)
- 4a (Sausseized/Textonized Anorthosite)
- 5 (Undivided Metasediments)
- 5a (Siliceous Metasediments)
- 5b (Pelitic Metasediments)
- 6 (Undivided Ultramafic Intrusive)
- 6a (Dunite)
- 6b (Pseudotite)
- 6c (Ultramafic Pyroxenite)
- 6d (Pyroxenite)
- 6e (Ultramafic Schist)
- 6f (Monite)
- 7 (Undivided Mafic Intrusive)
- 7a (Gabbroite)
- 7b (Diorite)
- 8 (Dyke)
- 8a (Dolerite)
- 8b (Lamprophyre)
- 8c (Pegmatite)
- 8d (Apikite)
- 8e (Pyroxenite)
- 8f (Pyroxenite)
- 8g (Pyroxenite)
- 8h (Pyroxenite)
- 8i (Pyroxenite)
- 8j (Pyroxenite)
- 8k (Pyroxenite)
- 8l (Pyroxenite)
- 8m (Pyroxenite)
- 8n (Pyroxenite)
- 8o (Pyroxenite)
- 8p (Pyroxenite)
- 8q (Pyroxenite)
- 8r (Pyroxenite)
- 8s (Pyroxenite)
- 8t (Pyroxenite)
- 8u (Pyroxenite)
- 8v (Pyroxenite)
- 8w (Pyroxenite)
- 8x (Pyroxenite)
- 8y (Pyroxenite)
- 8z (Pyroxenite)
- C (Casing)
- EOH (End of Hole)
- MS (MASSIVE SULPHIDE (>75%))

UTEM Conductor
UTEM Plate

Borehole EM

- In hole
- Off hole
- In hole edge

VEDLEGG
J.Nr. 2159/05

ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

Section L10300E
(looking grid west)

ES2005-35

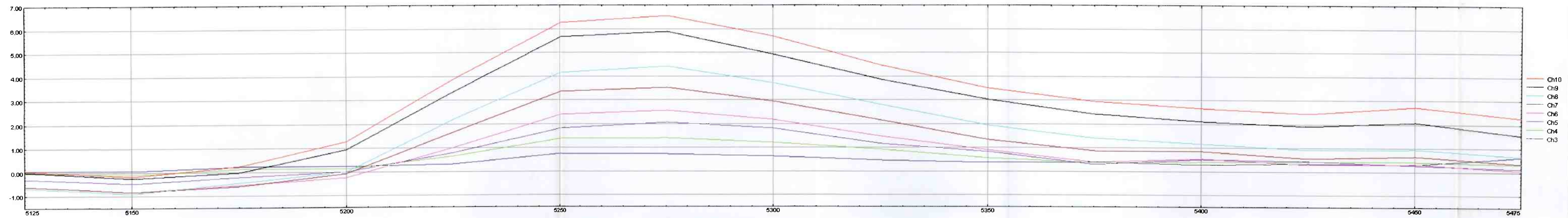
Drillhole with Nickel Assay % on Left (Ni > 0.5 in Red),
Major and Minor Lithology on Right

Date: November 2005.

Approved: P.Tirschmann

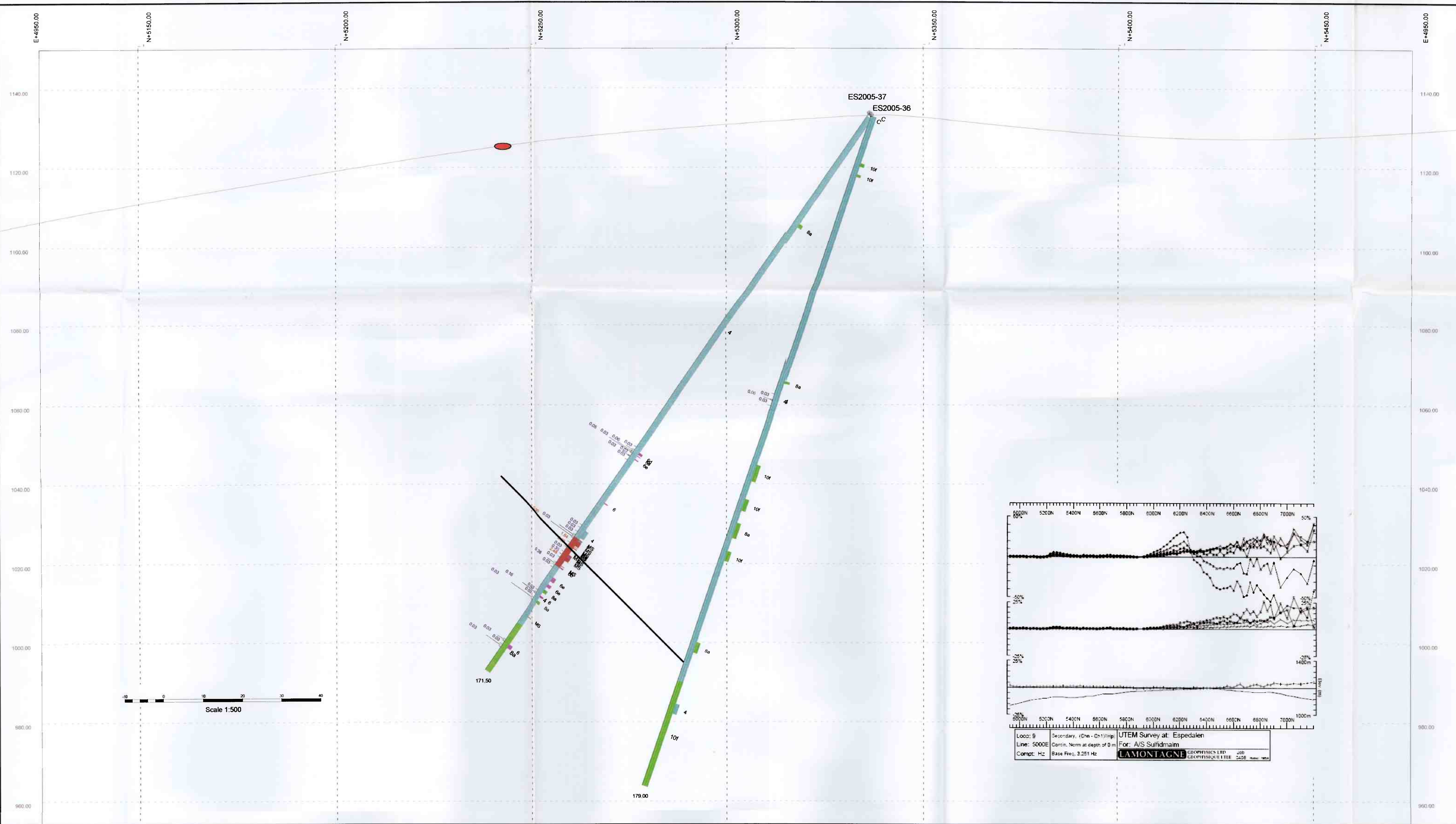
MAP 30

L4950E UTEM Profiles



data base: c:\vancouver\espedalen\documents\profile\utem_profiles\utem_18.mxd\group: L4950E

2005/11/03



Major and Minor Lithology Descriptions

- 1 (Jokune)
- 10 (Mafic Metavolcanic)
 - 10a (Massive flows)
 - 10b (Flowed flows)
 - 10c (Tuffs)
 - 10d (Volcaniclastic)
 - 10e (Metavolcanic Schists)
 - 10f (Mafic dykes)
- 11 (Intermediate Metavolcanic)
 - 11a (Massive flows)
 - 11b (Tuffs)
 - 11c (Volcaniclastic)
 - 11d (Metavolcanic Schists)
 - 11e (Intermediate dykes)
- 12 (Felsic Metavolcanic)
 - 12a (Massive flows)
 - 12b (Tuffs)
 - 12c (Volcaniclastic)
 - 12d (Metavolcanic Schists)
 - 12e (Felsic dykes)
- 2 (Charnockite)
- 3 (Granitic Augen Gneiss)
- 4 (Anorthosite / Anorthositic Gabbro)
 - 4a (Sassanized / Tectonized Anorthosite)
- 5 (Undivided Metasediments)
 - 5a (Siltaceous Metasediments)
 - 5b (Felsic Metasediments)
- 6 (Undivided Ultramafic Intrusive)
 - 6a (Dunite)
 - 6b (Peridotite)
 - 6c (Diktytic Pyroxenite)
 - 6d (Pyroxenite)
 - 6e (Ultramafic Schist)
 - 6f (Norton)
- 7 (Undivided Mafic Intrusive)
 - 7a (Gabbro)
 - 7b (Diorite)
- 8 (Dyke)
 - 8a (Dolerite)
 - 8b (Lamprophyre)
 - 8c (Pegmatite)
 - 8d (Applite)
 - 8e (Pyroxenite)
 - 8f (Aphanitic UM Dyke)
- 9 (Dolerite)
 - 9a (Dolerite)
 - 9b (Lamprophyre)
 - 9c (Pegmatite)
 - 9d (Applite)
 - 9e (Pyroxenite)
 - 9f (Aphanitic UM Dyke)
- C (Casing)
- EOH (End of Hole)
- MS (MASSIVE SULPHIDE (>75%))

UTEM Conductor

UTEM Plate

Borehole EM

In hole

Off hole

In hole edge

VEDLEGG
J.N. 2159/05

Map 31

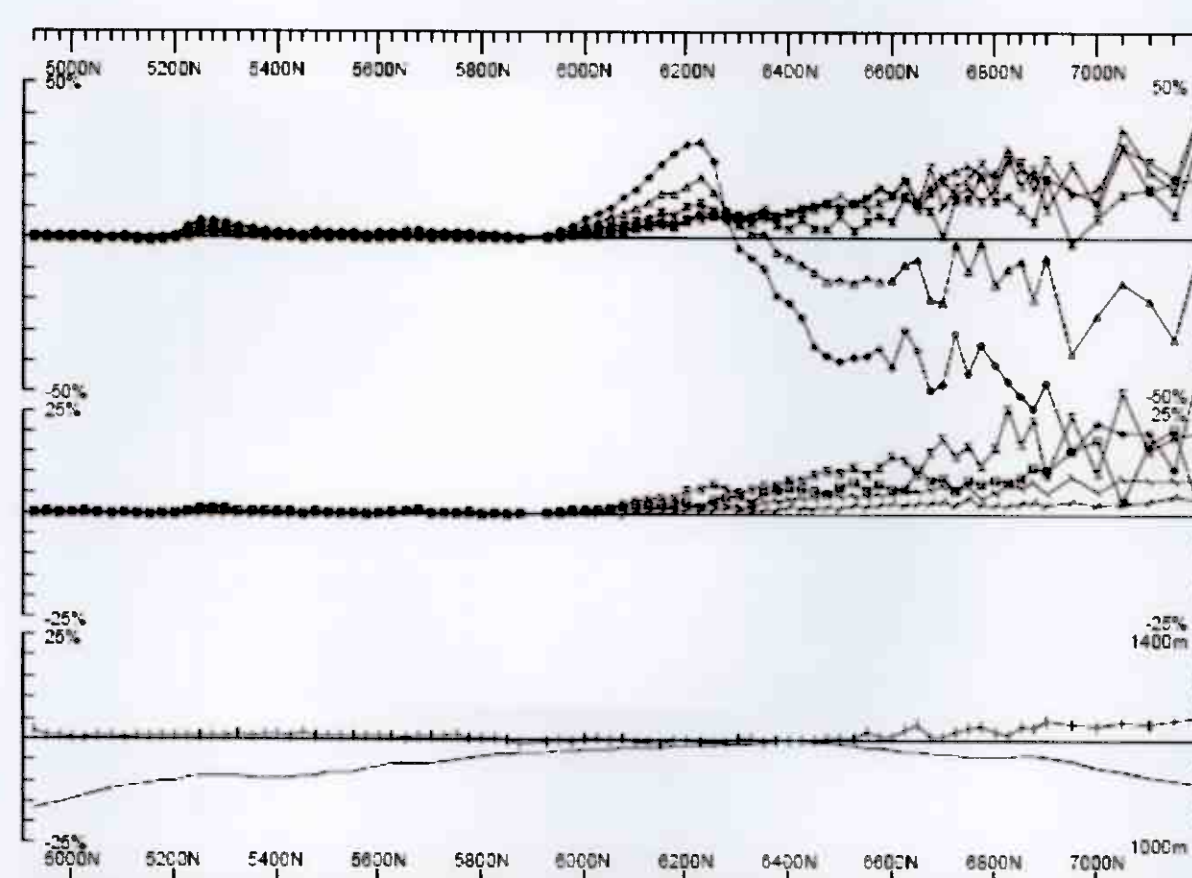
ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

Section L4950E
(looking grid west)
ES2005-36 and 37

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

Date: November 2005.

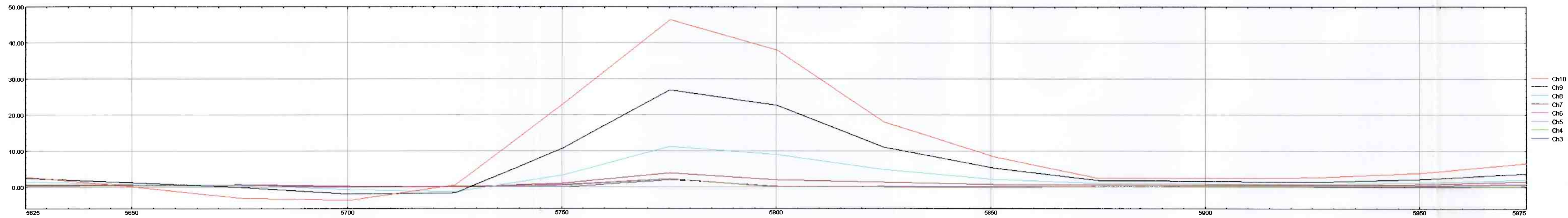
Approved: P.Tirschmann



Line: 5000E
Compt: HZ
Base Rec: 3.251 Hz

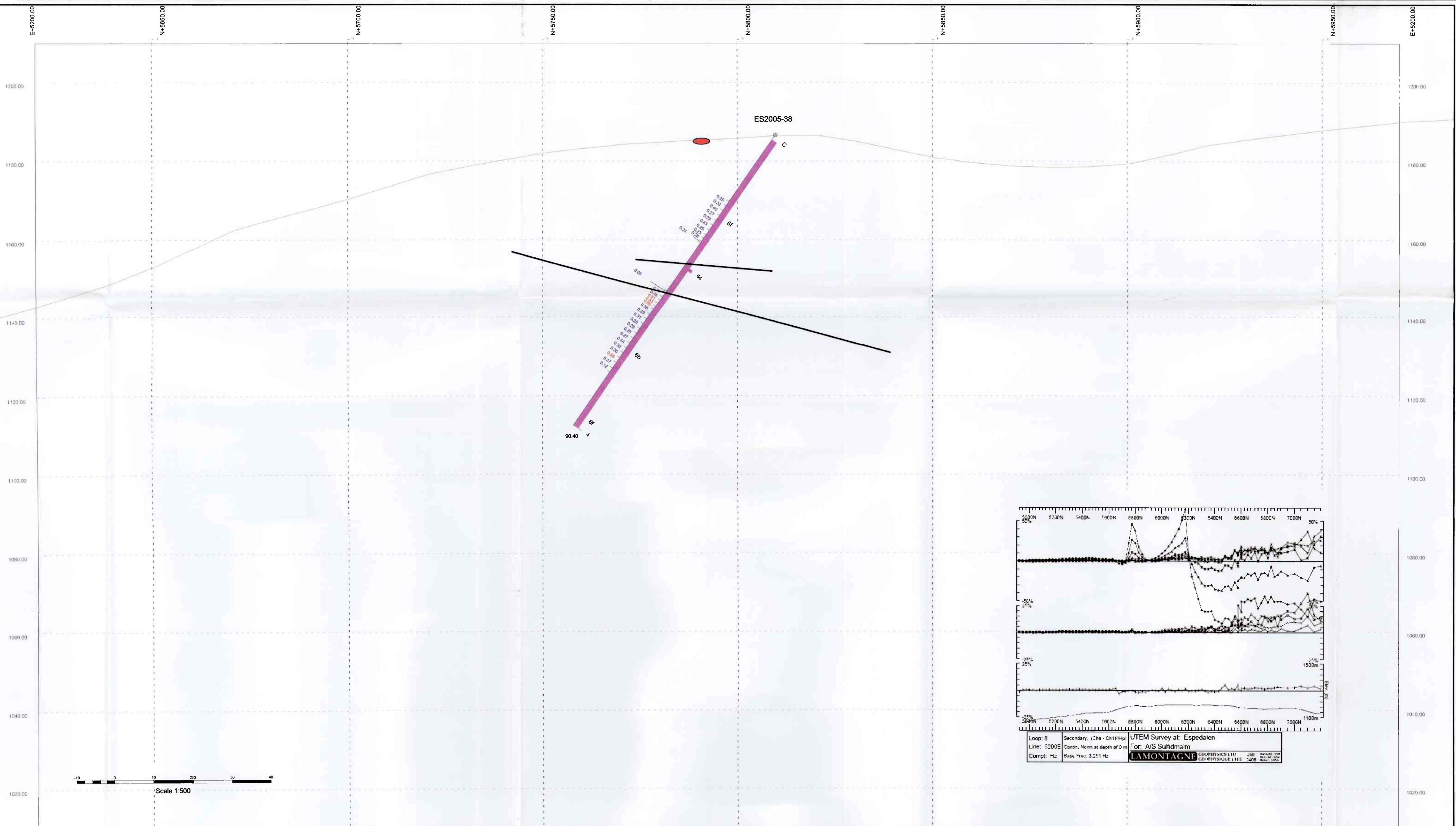
UTEM Survey at: Espedalen
For: A/S Sulfidmalm
LAMONTAGNE GEOPHYSICS LTD
2005

L5200E UTEM Profiles



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2005/11/03



Major and Minor Lithology Descriptions

- 1 (Jotunite)
- 10 (Mafic Metavolcanic)
- 10a (Massive flows)
- 10b (Flowed 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 (Charnokite)
- 3 (Granitic-Augen Gneiss)
- 4 (Anorthositic / Anorthositic Gabbro)
- 4s (Sausenitized / Textonized Anorthositic)
- 5 (Undivided Metasediments)
- 5a (Siliceous Metasediments)
- 5b (Pelitic Metasediments)
- 6 (Undivided Ultramafic Intrusive)
- 6a (Dunite)
- 6b (Peridotite)
- 6c (Diktyritic Pyroxenite)
- 6d (Pyroxenite)
- 6e (Ultramafic Schist)
- 6f (Nioite)
- 7 (Undivided Mafic Intrusive)
- 7a (Gabbro-nioite)
- 7b (Dionite)
- 8 (Dyke)
- 8a (Dolomite)
- 8b (Lamprophyre)
- 8c (Pegmatite)
- 8d (Apfite)
- 8e (Pyroxenite)
- 8f (Aphanitic UM Dyke)
- C (Casing)
- EOH (End of Hole)
- MS (MASSIVE SULPHIDE (>75%))

UTEM Conductor
UTEM Plate

Borehole EM
In hole
Off hole
In hole edge

VEDLEGG
J.nr. 2159/05

Map 32

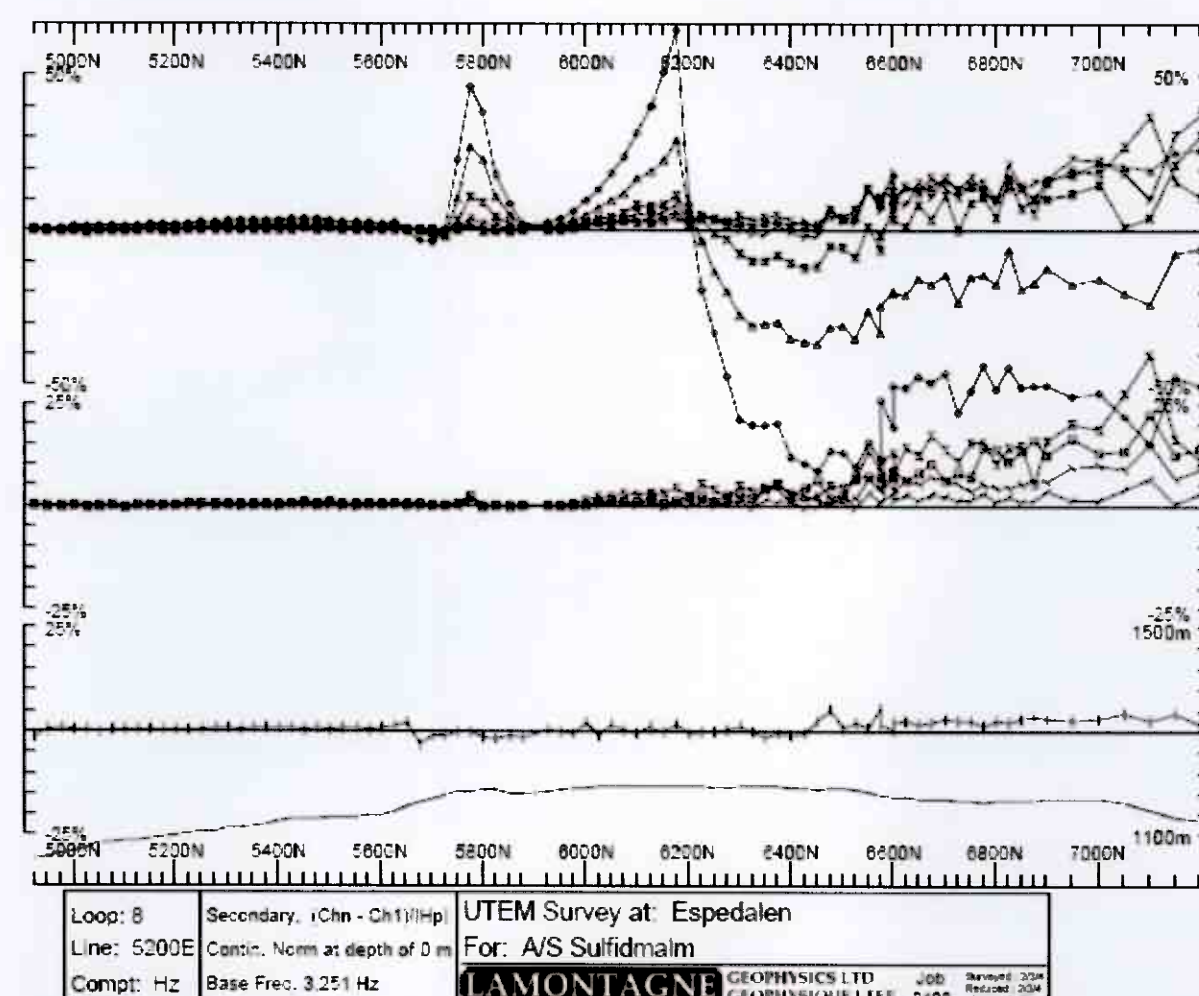
ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

Section L5200E
(looking grid west)
ES2005-38

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

Date: November 2005.

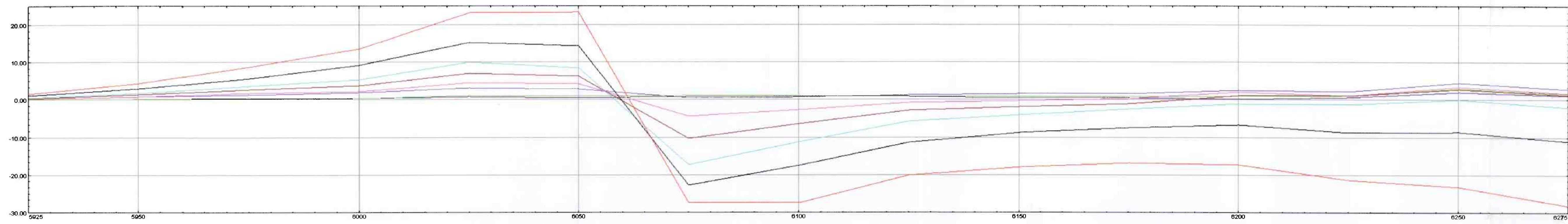
Approved: P.Tirschmann



Loop: 8 Secondary: 1 Chn - Ch11
Line: 5200E Contin: Norm at depth of 0 m
Compt: Hz Base Freq: 3.251 Hz

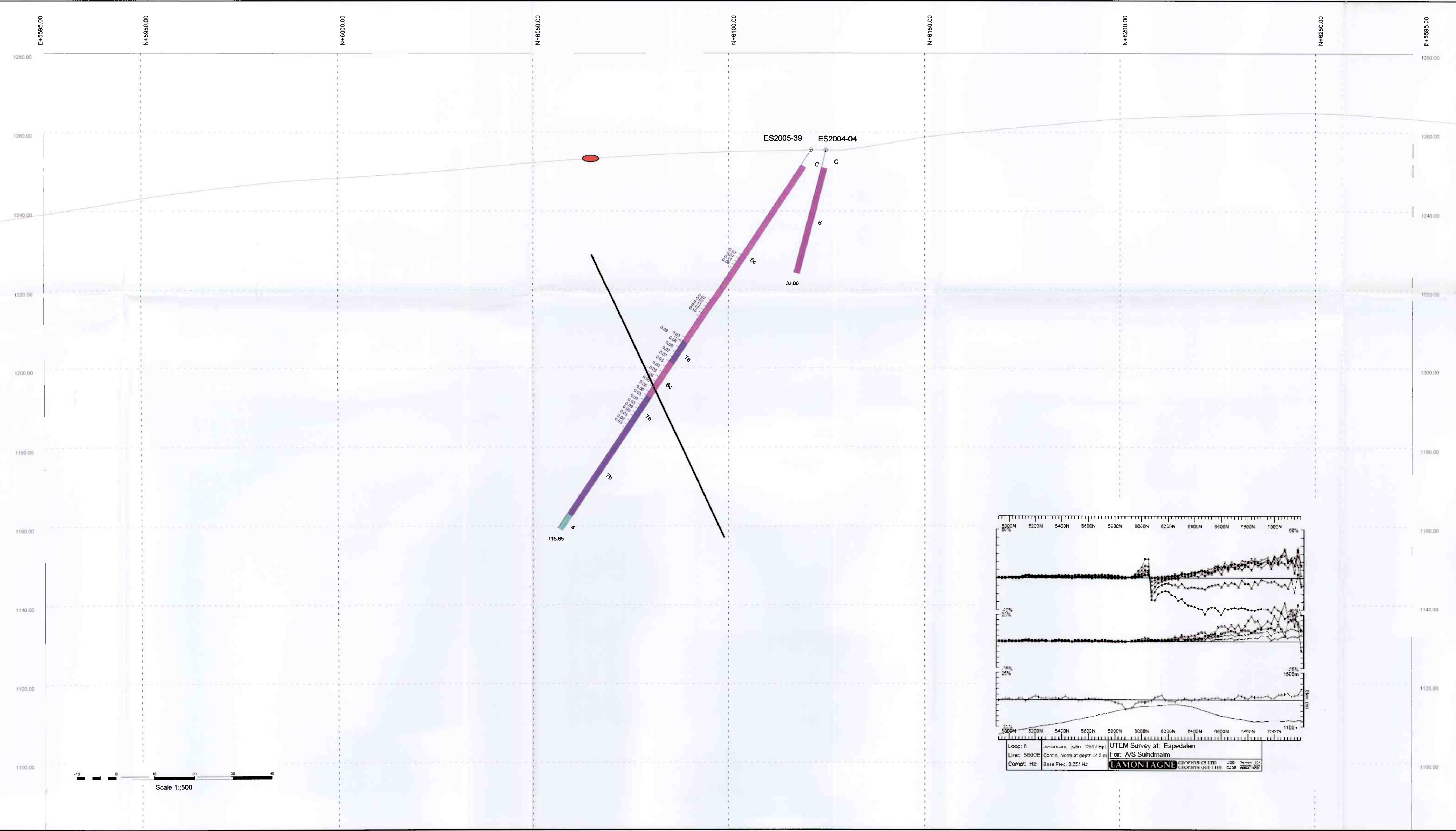
UTEM Survey at: Espedalen
For: A/S Sulfidmalm
LAMONTAGNE GEOPHYSICS LTD
2005

L5600E UTEM Profiles



database:\c:\mora\espedalen\documents\drilling\utem_profiles\ch3_10.mxd\fig\utem_profiles\L5600

2005/11/03



Major and Minor Lithology Descriptions

- 1 (Granite)
- 10 (Mafic Metavolcanic)
- 10a (Massive flows)
- 10b (Flowed flows)
- 10c (Tuffs)
- 10d (Volcanoclastic)
- 10e (Metavolcanic Schists)
- 10f (Mafic dykes)
- 11 (Intermediate Metavolcanic)
- 11a (Massive Flows)
- 11b (Tuffs)
- 11c (Volcanoclastic)
- 11d (Metavolcanic Schists)
- 11e (Intermediate dykes)
- 12 (Felsic Metavolcanic)
- 12a (Massive Flows)
- 12b (Tuffs)
- 12c (Volcanoclastic)
- 12d (Metavolcanic Schists)
- 12e (Felsic dykes)
- 2 (Charnokite)
- 3 (Granitic Augen Gneiss)
- 4 (Anorthosite / Anorthositic Gabbro)
- 4a (Gabbroized / Tectonized Anorthosite)
- 5 (Undivided Metasediments)
- 5a (Siliceous Metasediments)
- 5b (Felsic Metasediments)
- 6 (Undivided Ultramafic Intrusive)
- 6a (Dunite)
- 6b (Peridotite)
- 6c (Oikocystic Pyroxenite)
- 6d (Pyroxenite)
- 6e (Ultramafic Schist)
- 6f (Norite)
- 7 (Undivided Mafic Intrusive)
- 7a (Gabbro-norite)
- 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%))

- UTEM Conductor
- UTEM Plate

- Borehole EM
- In hole
- Off hole
- In hole edge

VEDLEGG
J.nr. 2059/05

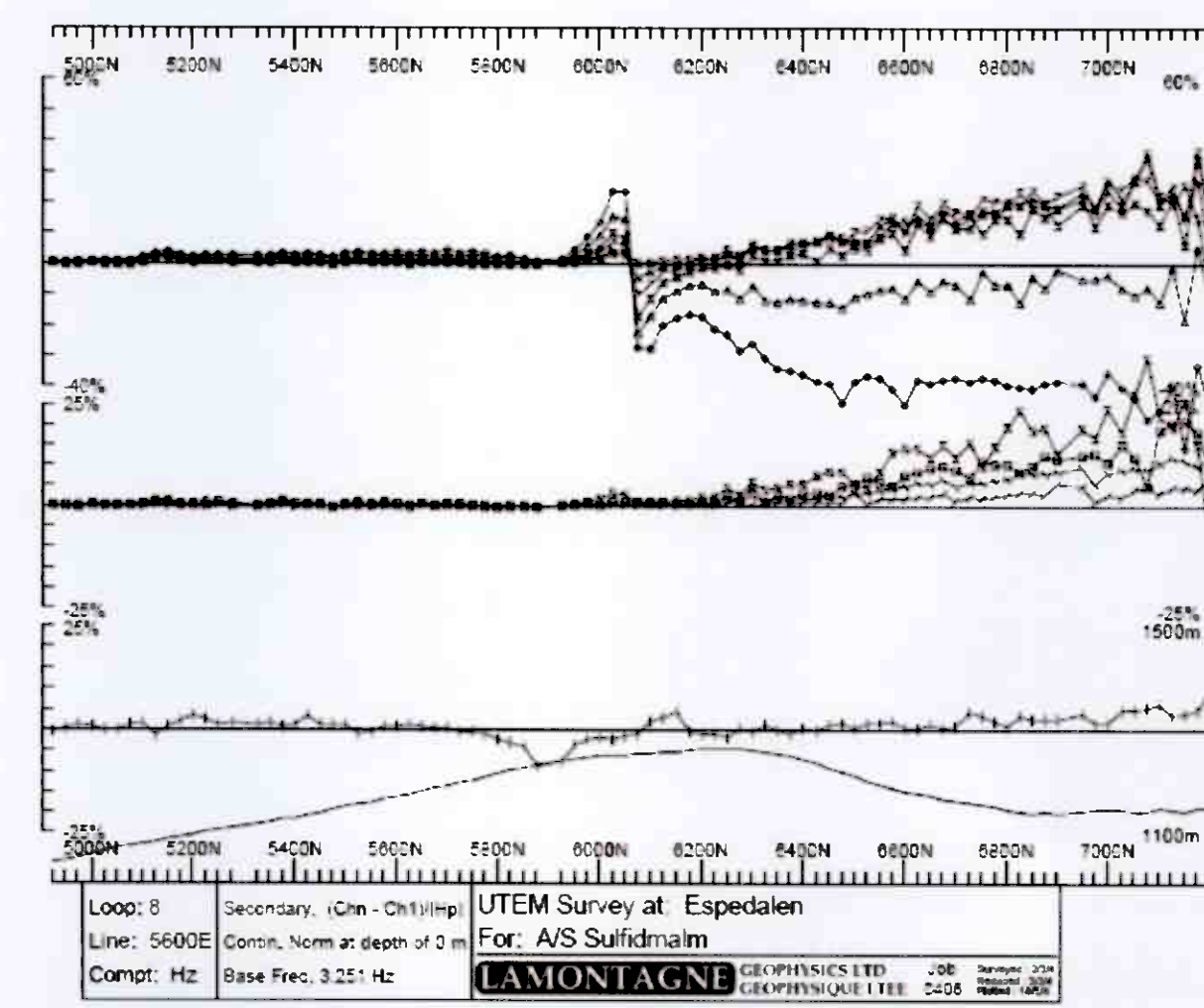
MAP 33

ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

Section L5600E
(looking grid west)
ES2004-04 and ES2005-39

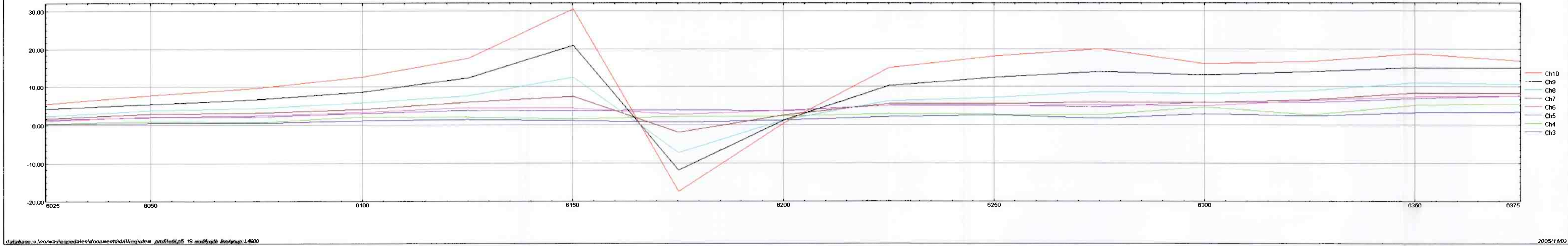
Drillhole with Nickel Assay % on Left (Ni > 0.5 in Red),
Major and Minor Lithology on Right

Date: November 2005. Approved: P.Tirschmann



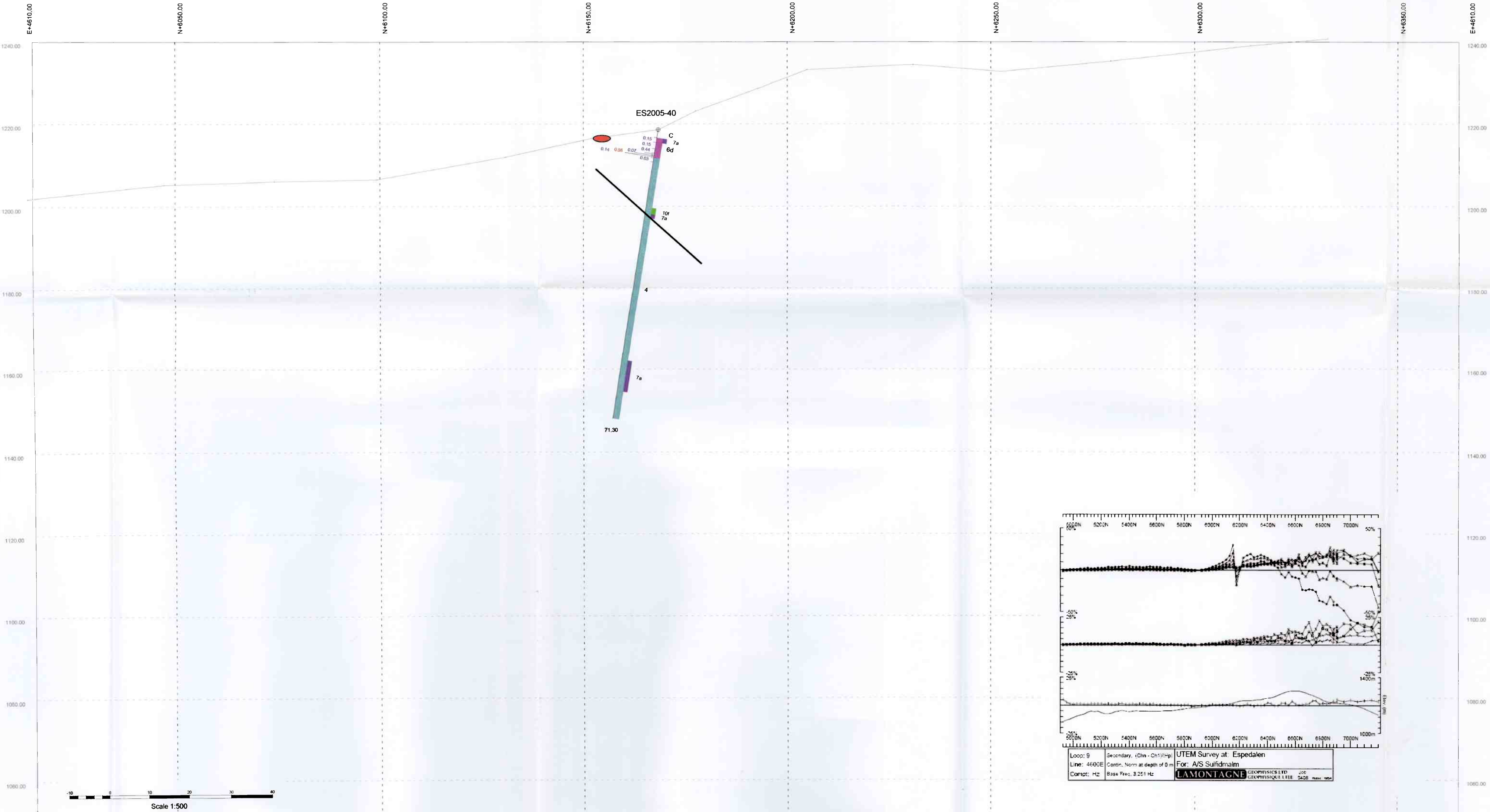
Loop: 8 Secondary (Chn - Ch10) UTEM Survey at: Espedalen
Line: L5600E Contn. Norm at depth of 0 m For: A/S Sulfidmalm
Compt: Hz Base Freq: 3.251 Hz LAMONTAGNE

L4600E UTEM Profiles



database: c:\nowa\espedalen\documents\drilling\utem_profiles\utem_10.mdf\group_L4600

2005/11/03



Major and Minor Lithology Descriptions

- 1 (Ultramylonite)
- 10 (Mafic Metavolcanic)
- 10a (Massive flows)
- 10b (Pillow 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)
- 11f (Felsic dykes)
- 12 (Felsic Metavolcanics)
- 12a (Massive Flows)
- 12b (Tuffs)
- 12c (Volcaniclastics)
- 12d (Metavolcanic Schists)
- 12e (Felsic dykes)
- 12f (Felsic dykes)
- 2 (Charnockite)
- 3 (Granitic Augen Gneiss)
- 4 (Anorthositic / Anorthositic Gabbro)
- 4a (Gabbroized / Tectonized Anorthosite)
- 5 (Undivided Metasediments)
- 5a (Siliceous Metasediments)
- 5b (Felsic Metasediments)
- 6 (Undivided Ultramafic Intrusive)
- 6a (Dunite)
- 6b (Pseudotuff)
- 6c (Diktyonitic Pyroxenite)
- 6d (Pyroxenite)
- 6e (Ultramafic Schist)
- 6f (Norite)
- 7 (Undivided Mafic Intrusive)
- 7a (Gabbroite)
- 7b (Diorite)
- 8 (Dyke)
- 8a (Diorite)
- 8b (Lampophyre)
- 8c (Pegmatite)
- 8d (Apollite)
- 8e (Pyroxenite)
- 8f (Aphanitic UM Dyke)
- C (Casing)
- EDH (End of Hole)
- MS (MASSIVE SULPHIDE (>75%))

UTEM Conductor

UTEM Plate

Borehole EM

⊕ In hole

⊕ Off hole

⊕ In hole edge

VEDLEGG
J.nr. 2159/05

Map 34

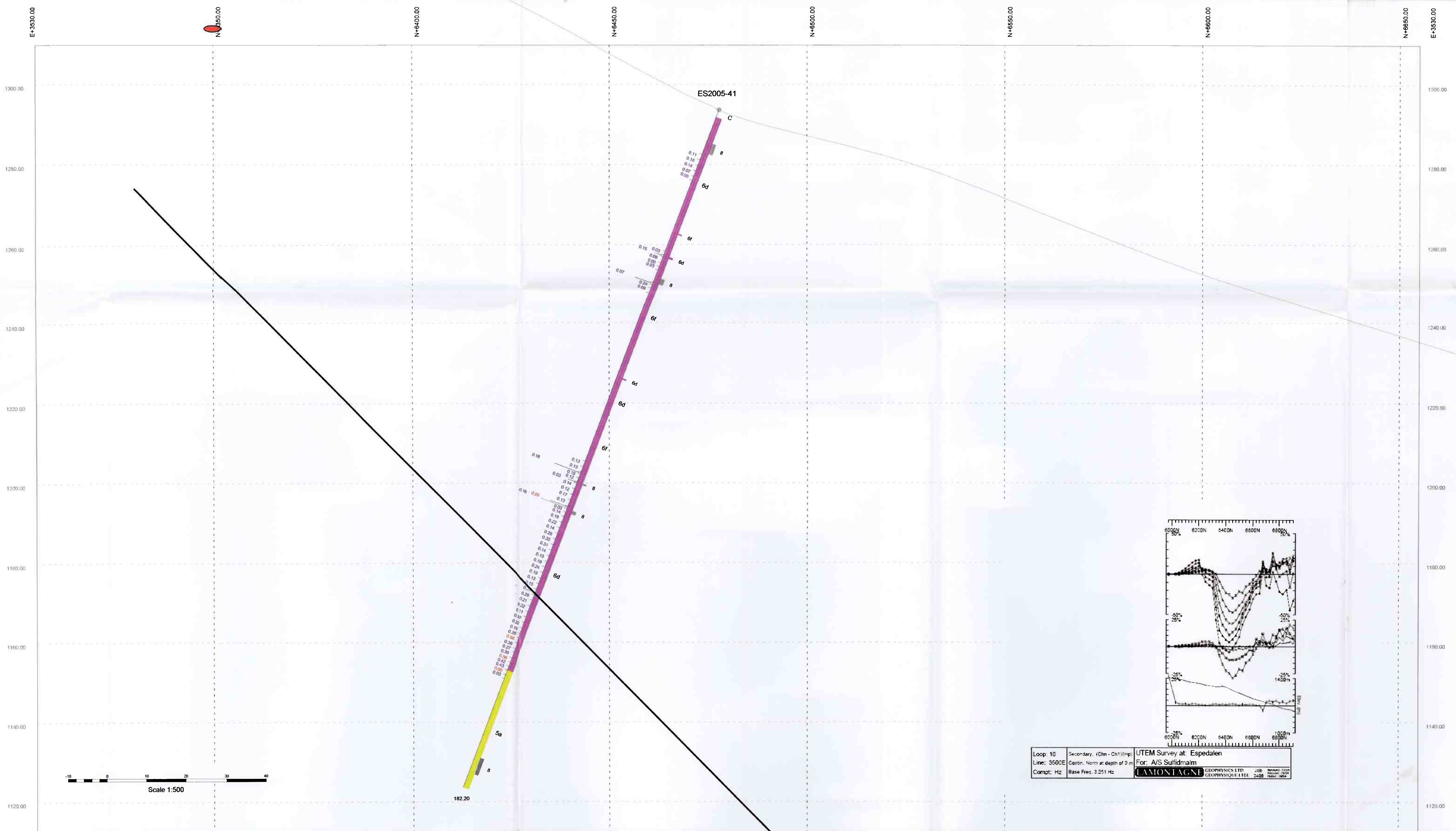
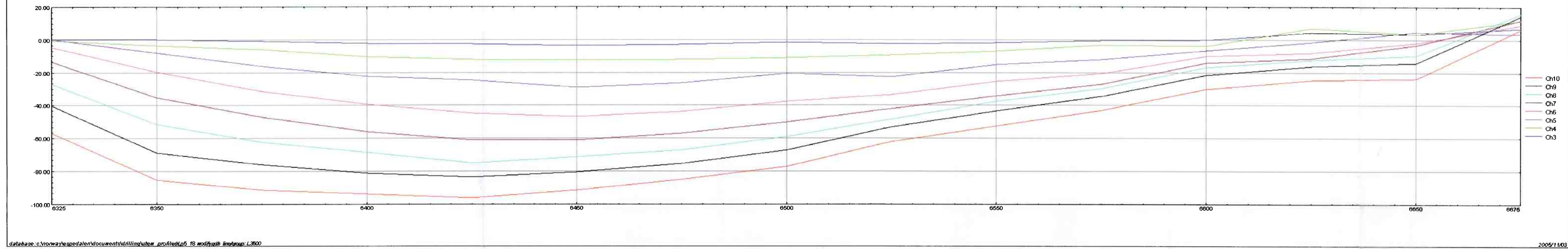
ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

Section L4600E
(looking grid west)
ES2005-40

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

Date: November 2005. Approved: P.Tirschmann

L3500E UTEM Profiles



Major and Minor Lithology Descriptions

- 1 (Jokulle)
- 10 (Mafic Metavolcanic)
 - 10a (Massive flows)
 - 10b (Flowed flows)
 - 10c (Tuffs)
 - 10d (Volcaniclastic)
 - 10e (Metavolcanic Schists)
 - 10f (Mafic dykes)
- 11 (Intermediate Metavolcanics)
 - 11a (Massive Flows)
 - 11b (Tuffs)
 - 11c (Volcaniclastic)
 - 11d (Metavolcanic Schists)
 - 11e (Intermediate dykes)
- 12 (Felsic Metavolcanics)
 - 12a (Massive Flows)
 - 12b (Tuffs)
 - 12c (Volcaniclastic)
 - 12d (Metavolcanic Schists)
 - 12e (Felsic dykes)
- 2 (Charnokite)
- 3 (Granitic Augen Gneiss)
- 4 (Anorthosite / Anorthositic Gabbro)
 - 4a (Saussuritized / Tectonized Anorthosite)
- 5 (Undivided Metasediments)
 - 5a (Siliceous Metasediments)
 - 5b (Pelitic Metasediments)
- 6 (Undivided Ultramafic Intrusive)
 - 6a (Dunite)
 - 6b (Pseudotuff)
 - 6c (Olivocystic Pyroxenite)
 - 6d (Pyroxenite)
 - 6e (Ultramafic Schist)
 - 6f (Nephel)
- 7 (Undivided Mafic Intrusive)
 - 7a (Gabbroanorthite)
 - 7b (Diorite)
- 8 (Dyke)
 - 8a (Dolerite)
 - 8b (Lamprophyre)
 - 8c (Fegmolite)
 - 8d (Aegirite)
 - 8e (Pyroxenite)
 - 8f (Aphanitic UM Dyke)
- C (Casing)
- EOH (End of Hole)
- MS (MASSIVE SULPHIDE (>75%))

UTEM Conductor
UTEM Plate

Borehole EM
In hole
Off hole
In hole edge

VEDLEGG
J.nr. 2059/05

map 35

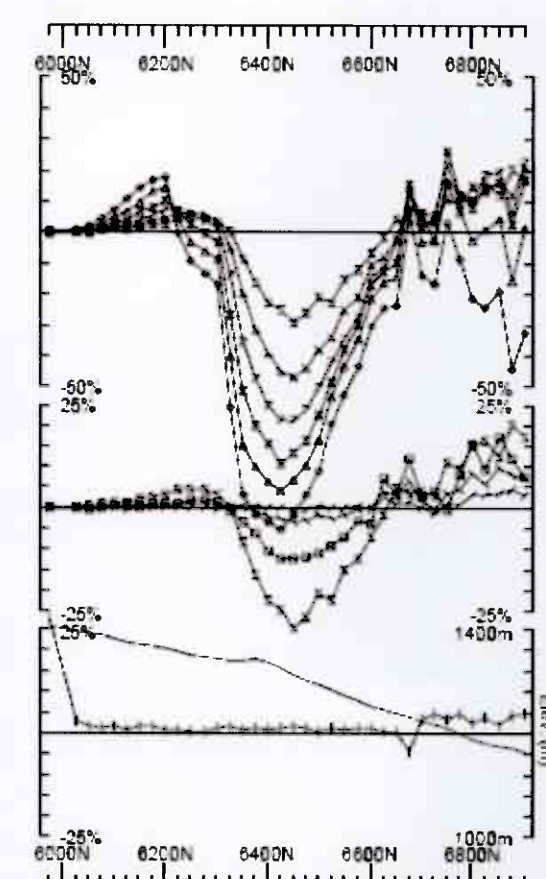
ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

Section L3500E
(looking grid west)
ES2005-41

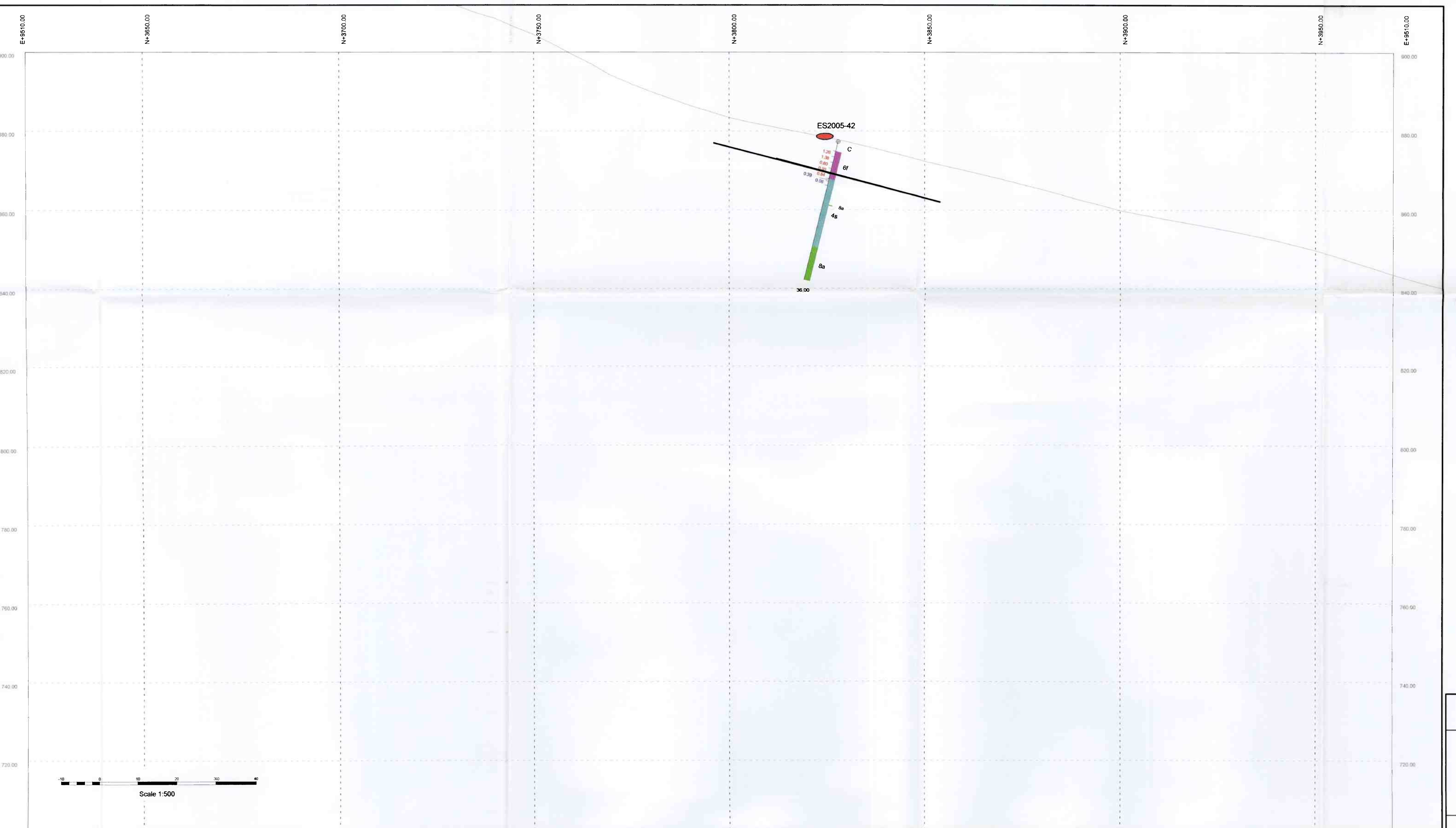
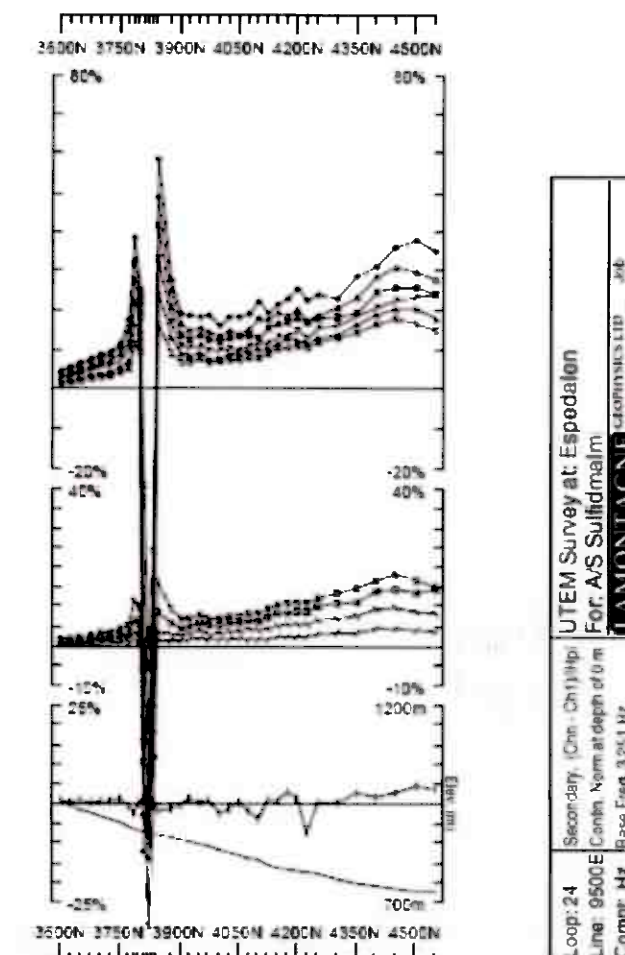
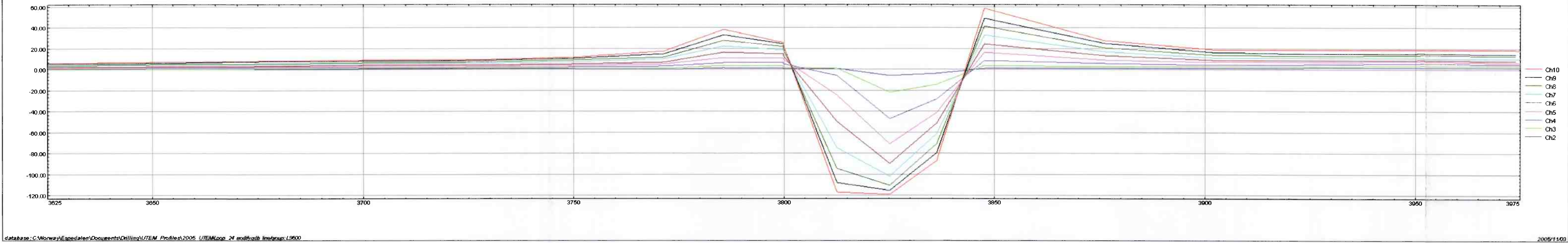
Drillhole with Nickel Assay % on Left (Ni > 0.5 in Red),
Major and Minor Lithology on Right

Date: November 2005. Approved: P.Tirschmann

Loop: 10 Secondary: (Chn - Ch1) (m)
Line: 3500E Contin. Norm at depth of 0 m
Compt: Hz Base Freq: 3.251 Hz
UTEM Survey at: Espedalen
For: A/S Sulfidmalm
LAMONTAGNE GEOPHYSICS LTD
2005



L9500E UTEM Profiles



Major and Minor Lithology Descriptions

- 1 (Johanne)
- 10 (Mafic Metavolcanic)
 - 10a (Massive flows)
 - 10b (Flowed 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)
 - 4a (Saussuritized / Texturized 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 (Gabbroite)
 - 7b (Diorite)
- 8 (Dyke)
 - 8a (Dolerite)
 - 8b (Lamprophyre)
 - 8c (Pegmatite)
 - 8d (Apfite)
 - 8e (Pyroxenite)
 - 8f (Aphanitic UM Dyke)
- C (Casing)
- EDH (End of Hole)
- MS (MASSIVE SULPHIDE (>75%))

UTEM Conductor
UTEM Plate

Borehole: EM
⊕ In hole
⊗ Off hole
⊙ In hole edge

VEDLEGG: SW
J.nr. 2059/05

MAP 36

ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

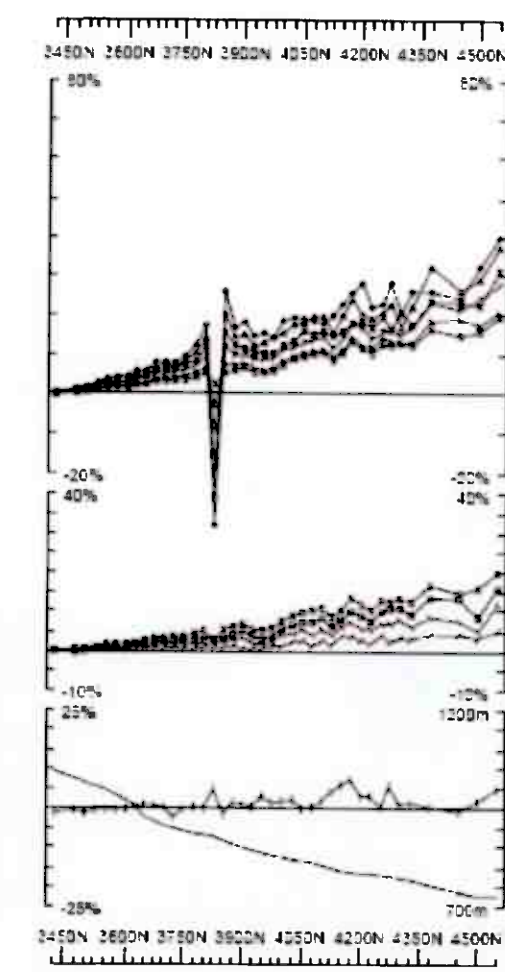
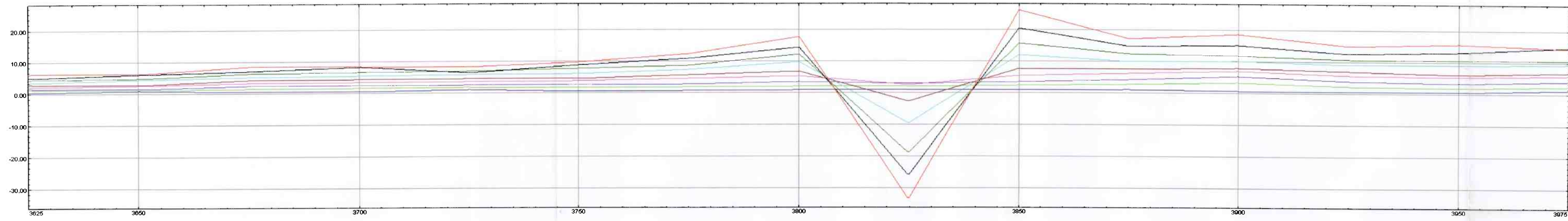
Section L9500E
(looking grid west)
ES2005-42

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

Date: November 2005.

Approved: P.Tirschmann

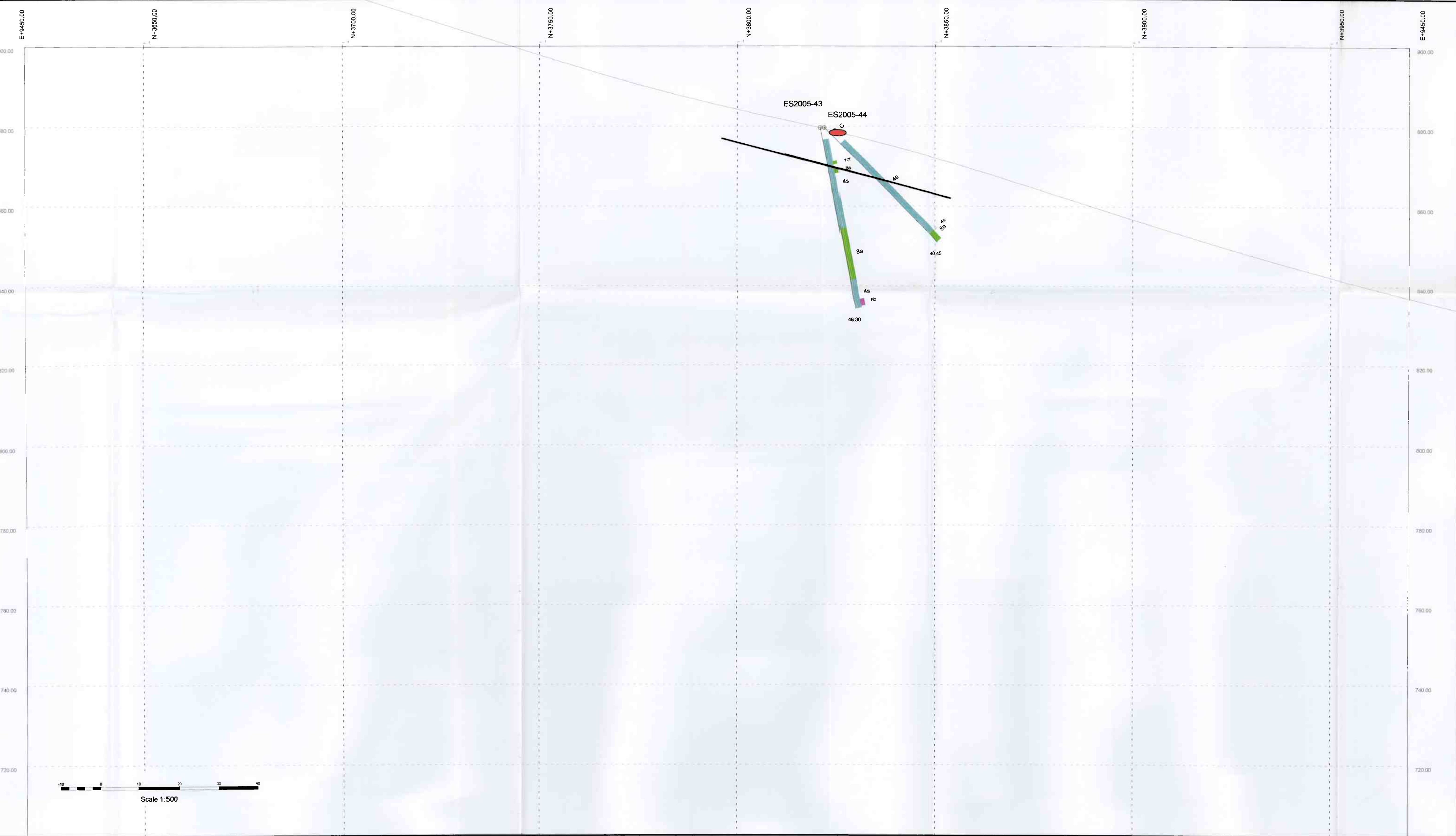
L9400E UTEM Profiles



UTEM Survey at Espedalen
For AS Sulfidmalm
Date: 2005-11-03
Scale: 1:500
Sheet: 37

database: C:\Moway\Espedalen\Documents\Drilling\UTEM Profiles\2005 UTEM\map 24.mxd\group L9400

2005/11/03



Major and Minor Lithology Descriptions

- 1 (Jokune)
- 10 (Mafic Metavolcanic)
 - 10a (Massive flows)
 - 10b (Flowed flows)
 - 10c (Tuffs)
 - 10d (Volcaniclastic)
 - 10e (Metavolcanic Schists)
 - 10f (Mafic dykes)
- 11 (Intermediate Metavolcanic)
 - 11a (Massive Flows)
 - 11b (Tuffs)
 - 11c (Volcaniclastic)
 - 11d (Metavolcanic Schists)
 - 11e (Intermediate dykes)
- 12 (Felsic Metavolcanic)
 - 12a (Massive Flows)
 - 12b (Tuffs)
 - 12c (Volcaniclastic)
 - 12d (Metavolcanic Schists)
 - 12e (Felsic dykes)
- 2 (Charnokite)
- 3 (Granitic Augen Gneiss)
- 4 (Anorthosite / Anorthositic Gabbro)
 - 4a (Saussuritized / Tectonized Anorthosite)
- 5 (Undivided Metasediments)
 - 5a (Siliceous Metasediments)
 - 5b (Felsic Metasediments)
- 6 (Undivided Ultramafic Intrusive)
 - 6a (Dunite)
 - 6b (Peridotite)
 - 6c (Oikocystic Pyroxenite)
 - 6d (Pyroxenite)
 - 6e (Ultramafic Schist)
 - 6f (Norite)
- 7 (Undivided Mafic Intrusive)
 - 7a (Gabbro-norite)
 - 7b (Diorite)
- 8 (Dyke)
- 9 (Diabase)
 - 9a (Lamprophyre)
 - 9b (Pegmatite)
 - 9c (Aplite)
 - 9d (Pyroxenite)
 - 9e (Aphanitic UM Dyke)
- C (Casing)
- EOH (End of Hole)
- MS (MASSIVE SULPHIDE >75%)

- UTEM Conductor
- UTEM Plate
- Borehole EM
 - In hole
 - Off hole
 - In hole edge

VEDLEGG... 8V...
J.nr. 2159/03

MAP 37

ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

Section L9450E
(looking grid west)
ES2005-43 and 44

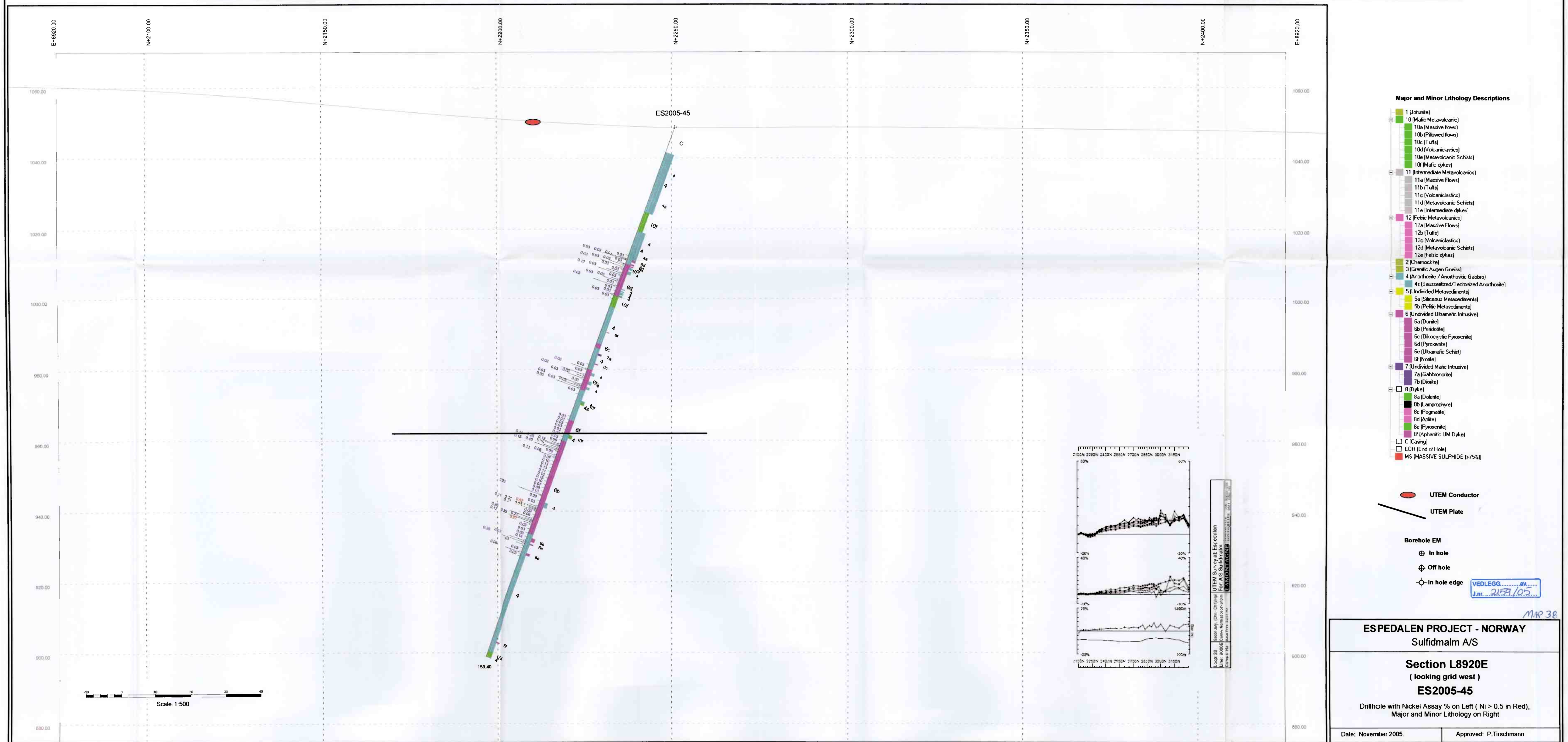
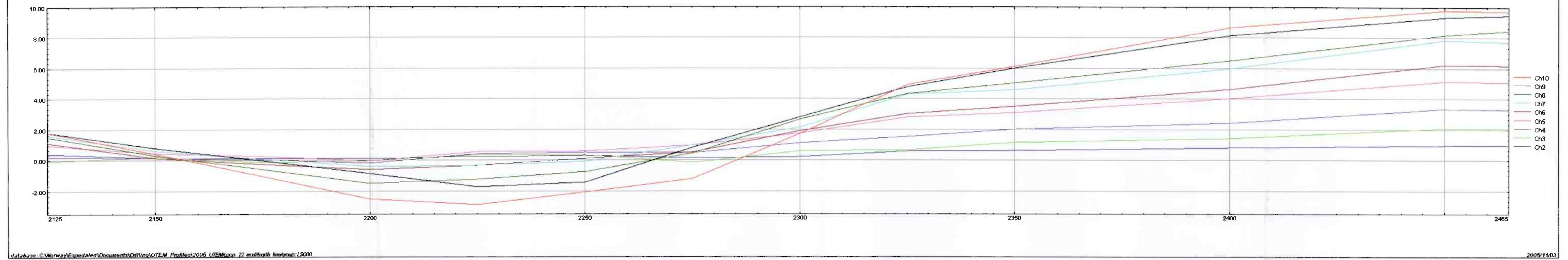
Drillhole with Nickel Assay % on Left (Ni > 0.5 in Red),
Major and Minor Lithology on Right

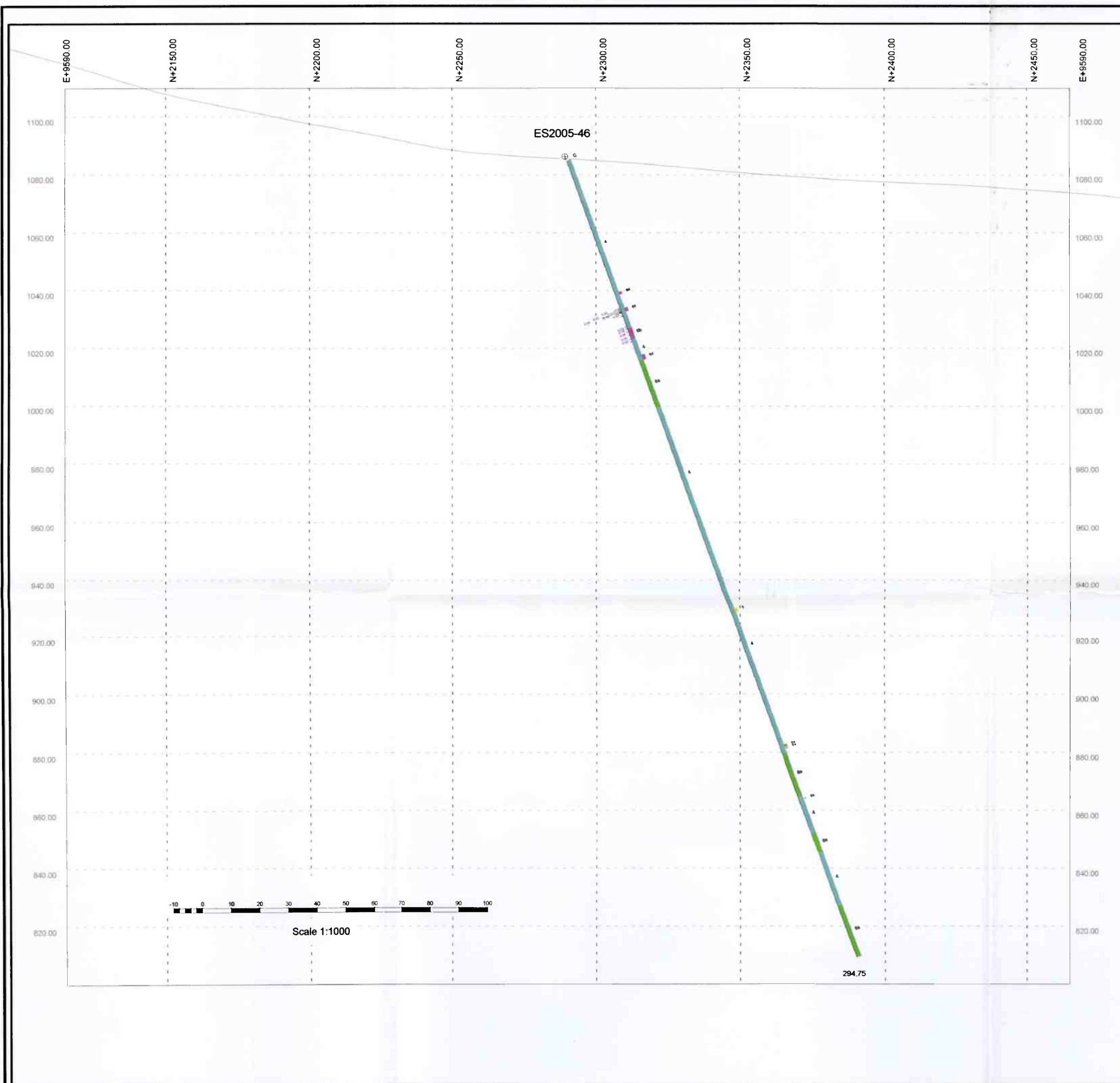
Date: November 2005.

Approved: P.Tirschmann

Scale 1:500

L8920E UTEM Profiles





Major and Minor Lithology Descriptions

- 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 (Pseudotachylite)
 - 6c (Diktycystic Pyroxenite)
 - 6d (Pyroxenite)
 - 6e (Ultramafic Schist)
 - 6f (Norite)
- 7 (Undivided Mafic Intrusive)
 - 7a (Gabbro-norite)
 - 7b (Diorite)
- 8 (Dyke)
 - 8a (Dolerite)
 - 8b (Lamprophyre)
 - 8c (Pegmatite)
 - 8d (Aplite)
 - 8e (Pyroxenite)
 - 8f (Aphanitic UIM Dyke)
- C (Casing)
- EOH (End of Hole)
- MS (MASSIVE SULPHIDE >75%)

UTEM Conductor

UTEM Plate

Borehole EM

In hole

Off hole

In hole edge

VEDLEGG
J.nr. 2159/05

MAP 39

ESPEDALEN PROJECT - NORWAY Sulfidmalm A/S

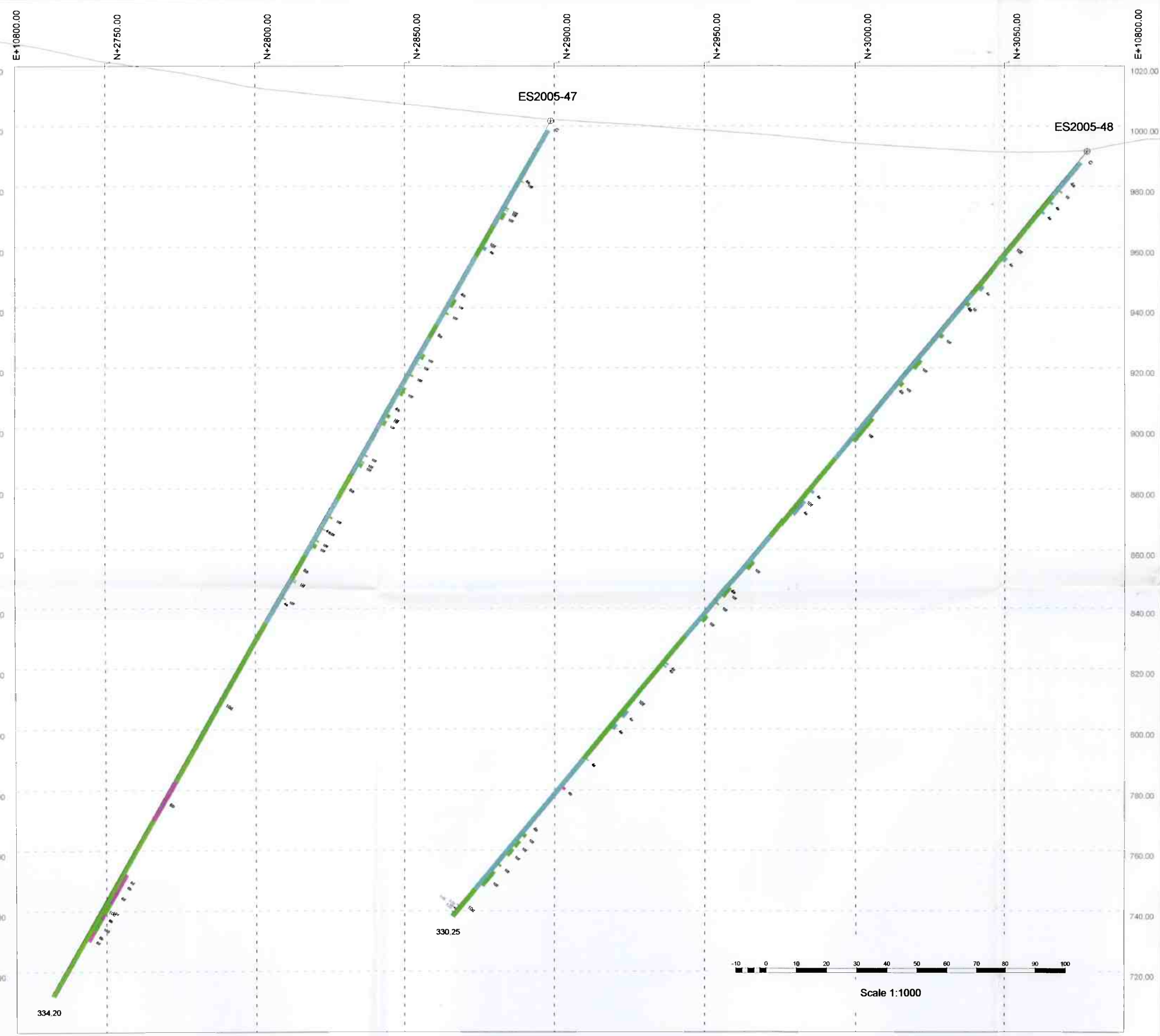
Section L9600E (looking grid west)

ES2005-46

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

Date: November 2005.

Approved: P.Tirschmann



Major and Minor Lithology Descriptions

- 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 (Pseudotachylite)
 - 6c (Oikocrystic Pyroxenite)
 - 6d (Pyroxenite)
 - 6e (Ultramafic Schist)
 - 6f (Norite)
- 7 (Undivided Mafic Intrusive)
 - 7a (Gabbro-norite)
 - 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%))

UTEM Conductor
UTEM Plate

Borehole EM
⊕ In hole
⊗ Off hole
⊙ In hole edge

VEDLEGG.....2V.....
J.nr. 2159/05

Map 40

ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

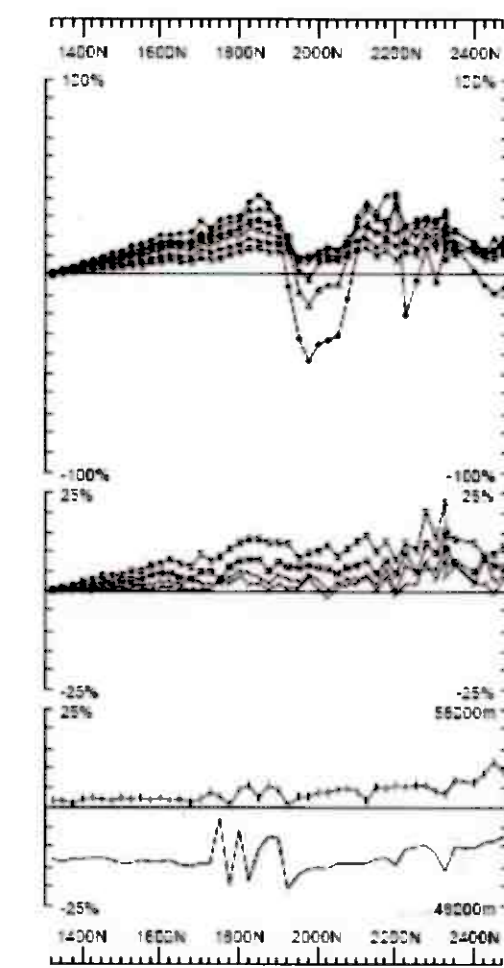
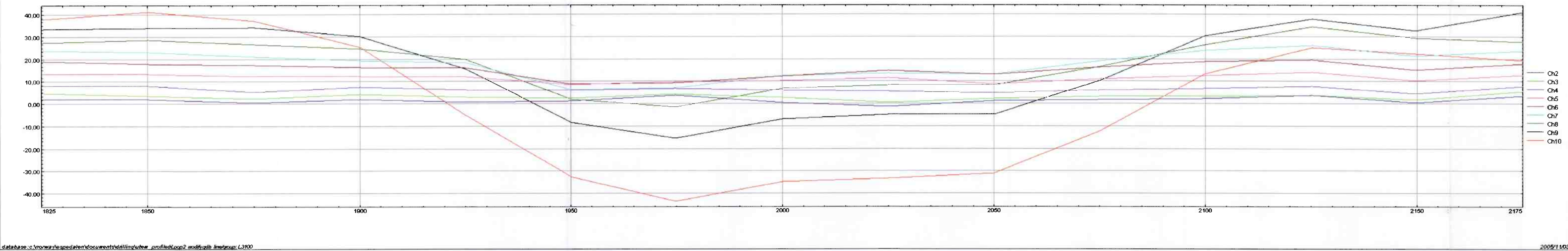
Section L10800E
(looking grid west)
ES2005-47 and 48

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

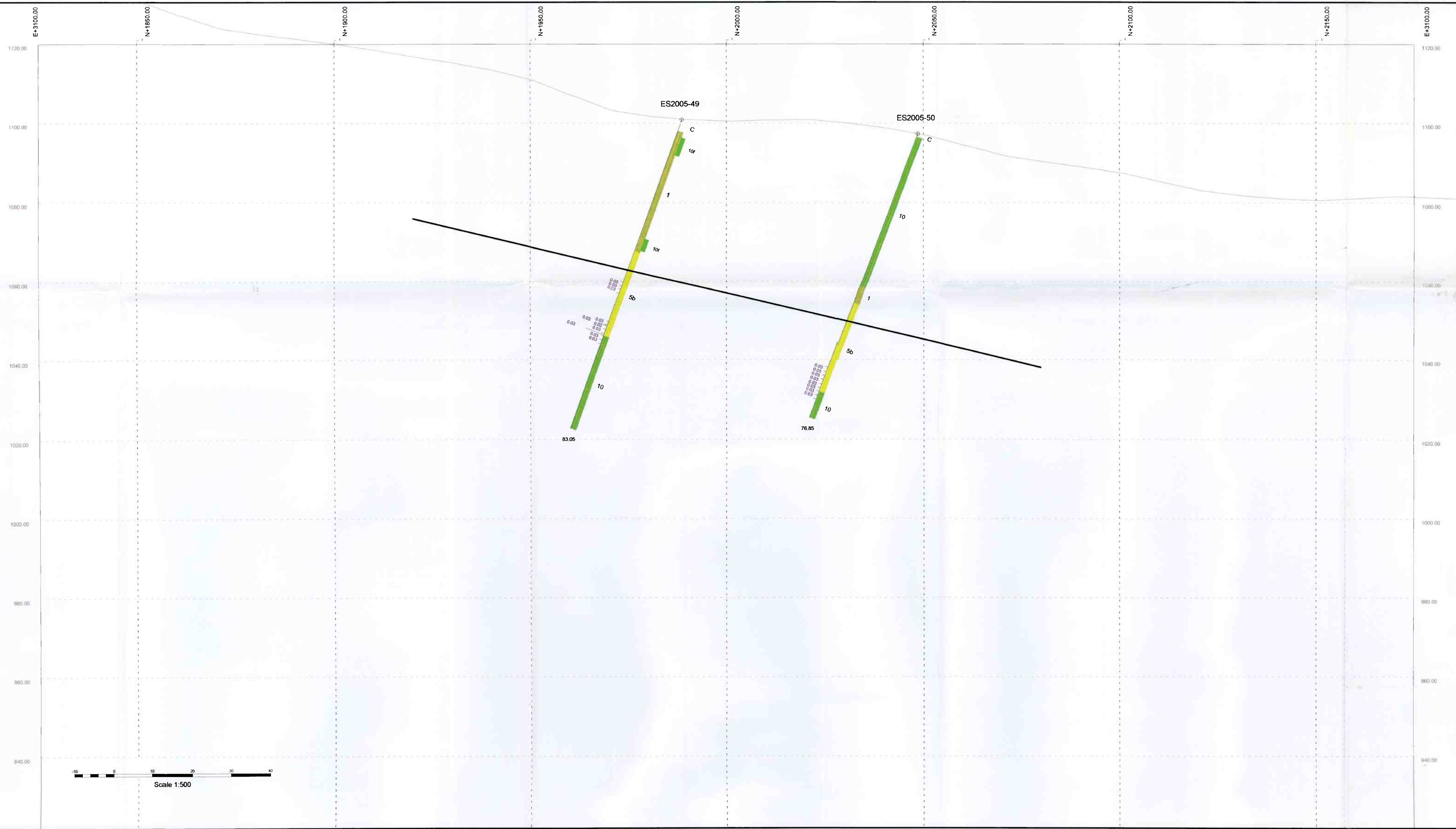
Date: November 2005.

Approved: P.Tirschmann

L3100E UTEM Profiles



UTEM Survey at Espedalen
Loop 2 1000m
Survey Date: 2005-11-03
Survey Time: 14:00
Survey Location: Espedalen, Norway
Surveyed by: P. Tirschmann
Checked by: J. Vedlegg



Major and Minor Lithology Descriptions

- 1 (Unknown)
- 10 (Mafic Metavolcanic)
- 10a (Massive flows)
- 10b (Flowed flows)
- 10c (Tuffs)
- 10d (Volcaniclastic)
- 10e (Metavolcanic Schists)
- 10f (Mafic dykes)
- 11 (Intermediate Metavolcanic)
- 11a (Massive Flows)
- 11b (Tuffs)
- 11c (Volcaniclastic)
- 11d (Metavolcanic Schists)
- 11e (Intermediate dykes)
- 12 (Felsic Metavolcanic)
- 12a (Massive Flows)
- 12b (Tuffs)
- 12c (Volcaniclastic)
- 12d (Metavolcanic Schists)
- 12e (Felsic dykes)
- 2 (Charnokite)
- 3 (Granitic Augen Gneiss)
- 4 (Anorthosite / Anorthositic Gabbro)
- 4a (Saussuritized/Tectonized Anorthosite)
- 5 (Undivided Metasediments)
- 5a (Siliceous Metasediments)
- 5b (Pelitic Metasediments)
- 6 (Undivided Ultramafic Intrusive)
- 6a (Dunite)
- 6b (Peridotite)
- 6c (Oikocystic Pyroxenite)
- 6d (Pyroxenite)
- 6e (Ultramafic Schist)
- 6f (Norton)
- 7 (Undivided Mafic Intrusive)
- 7a (Gabbro/anorthite)
- 7b (Diorite)
- 8 (Dyke)
- 8a (Diorite)
- 8b (Lamprophyre)
- 8c (Pegmatite)
- 8d (Apfite)
- 8e (Pyroxenite)
- 8f (Aphanitic UM Dyke)
- C (Casing)
- EDH (End of Hole)
- MS (MASSIVE SULPHIDE (>75%))

UTEM Conductor

UTEM Plate

Borehole EM

In hole

Off hole

In hole edge

VEDLEGG
J.nr. 2159/05

ESPEDALEN PROJECT - NORWAY
Sulfidmalm A/S

Section L3100E

(looking grid west)

ES2005-49 and 50

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

Date: November 2005.

Approved: P.Tirschmann

MAP 41