

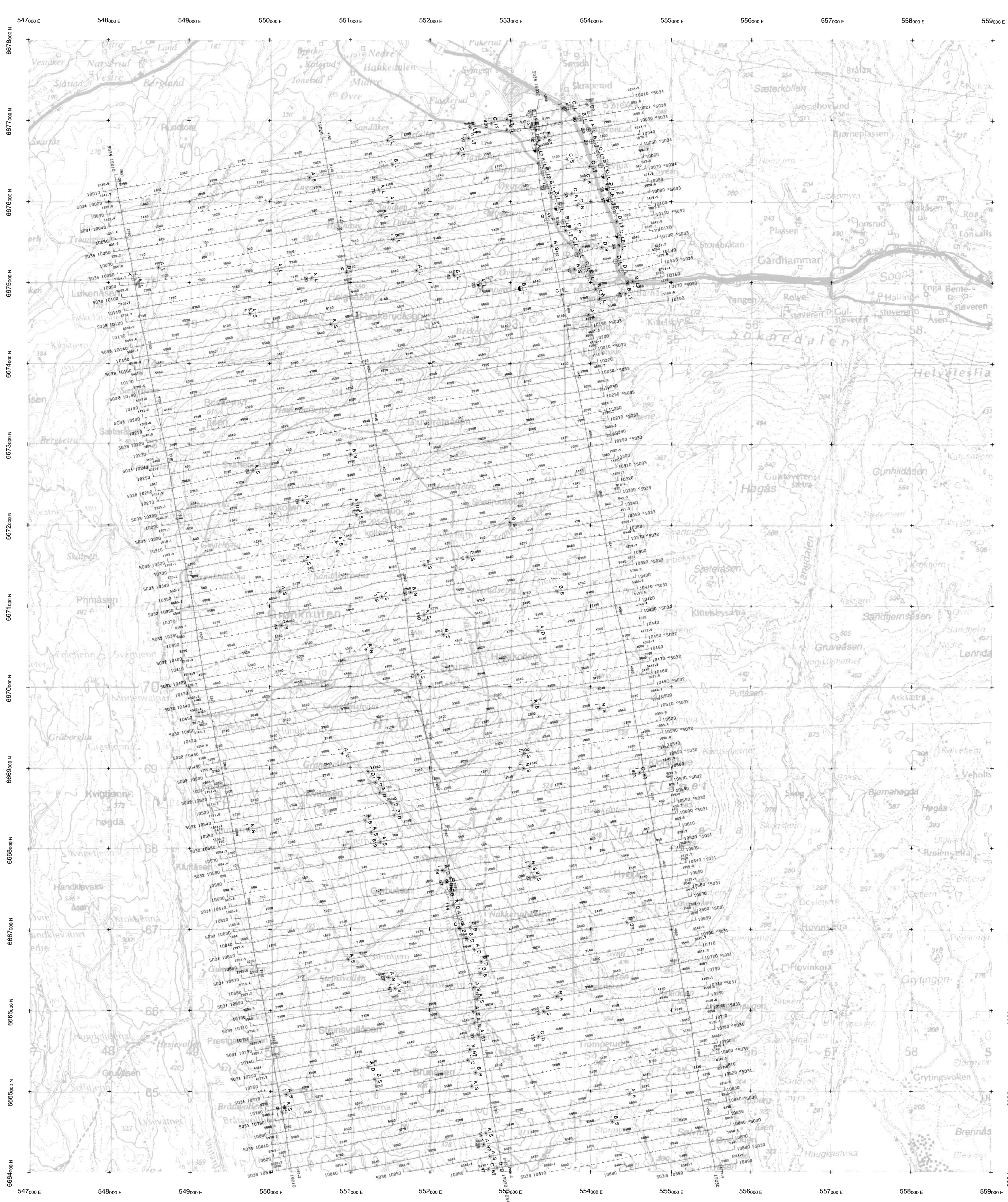


Bergvesenet rapport nr BV 4851	Intern Journal nr 06/00131-12	Internt arkiv nr	Rapport lokalisering	Gradering Fortrolig
Kommer fra arkiv	Ekstern rapport nr 06009	Oversendt fra Sulfidmalm a.s.	Fortrolig pga Muting	Fortrolig fra dato:
Tittel Fugro Airborne Surveys: Dighem Survey for Sulfidmalm AS, Norway, Map volume 1 of 3				
Forfatter Garrie, Douglas		Dato År 01.06 2006	Bedrift (Oppdragsgiver og/eller oppdragstaker) Sulfidmalm A/S Dighem Fugro Airborne Survey	
Kommune Ringerike Bamble Evje	Fylke Aust-Agder Buskerud Telemark	Bergdistrikt	1: 50 000 kartblad 17141 17144 17151 17152 18153 18154	1: 250 000 kartblad Arendal Telemark Mandal
Fagområde Geofysikk		Dokument type	Forekomster (forekomst, gruvefelt, undersøkelsesfelt) Ertelien Bamble Evje	
Råstoffgruppe Malm/metall		Råstofftype Ni		
Sammendrag, innholdsfortegnelse eller innholdsbeskrivelse				

**MAPS
for
FUGRO Report #06009**

**2006 DIGHEM Survey,
REF: 1714 I, IV; 1715 I, II; 1815 III, IV
Norway**

1 of 3



TECHNICAL SUMMARY

Navigation Differentially-corrected GPS
Data reduction grid interval 30 metres
Terrain clearance Helicopter 57 m
Electromagnetic sensor 30 m
Magnetometer 30 m
Data sampling interval 0.1 second
Magnetometer system / separation Dual sensor horizontal gradiometer / 5 m
Magnetometer / sensitivity Cesium 0.01 nT
Electromagnetic system DIG-EM

Frequency	Sensitivity	Coil Orientation
1000 Hz	0.6 ppm	Vertical coaxial
5500 Hz	1.2 ppm	Vertical coaxial
900 Hz	12 ppm	Horizontal coplanar
7200 Hz	24 ppm	Horizontal coplanar
56000 Hz	60 ppm	Horizontal coplanar

ELECTROMAGNETIC ANOMALIES

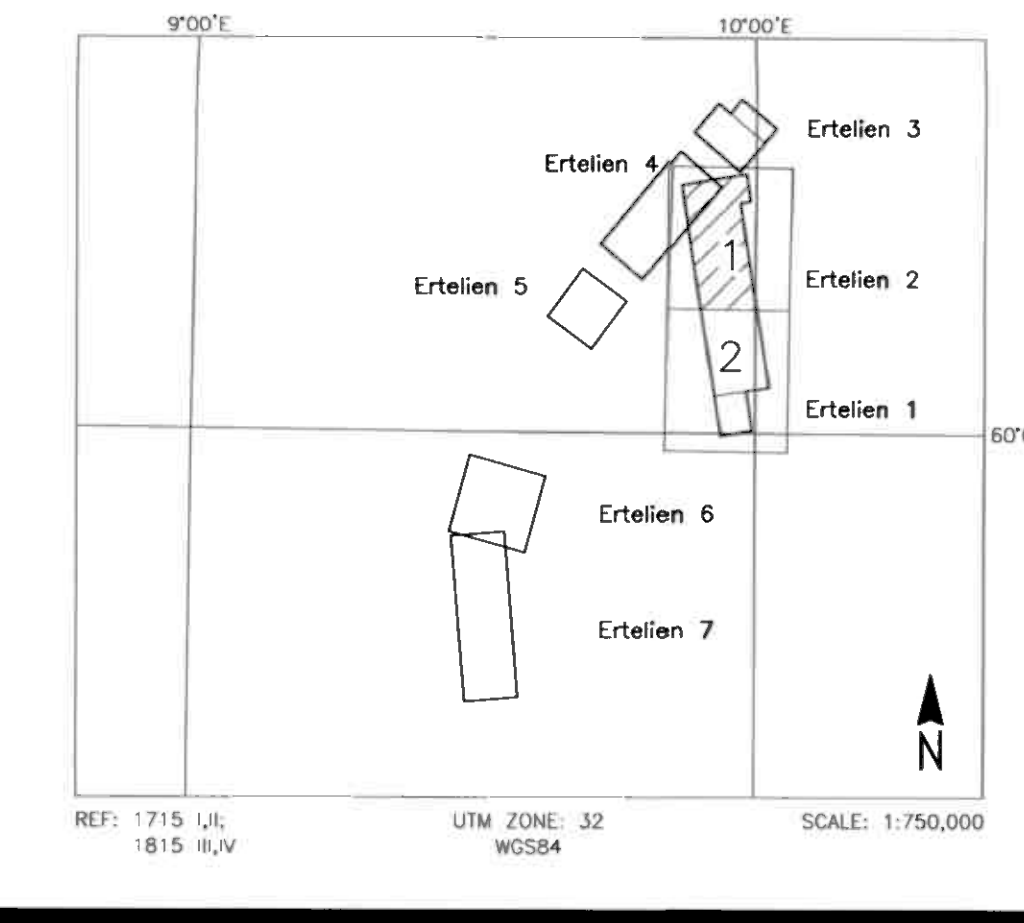
Grade	Anomaly	Conductance
7	●	>100 siemens
6	●	50-100 siemens
5	●	20-50 siemens
4	●	10-20 siemens
3	●	5-10 siemens
2	●	1-5 siemens
1	●	<1 siemens
-	○	Questionable anomaly

Interpretive symbol
Conductor ("model")
B Bedrock conductor
D Narrow bedrock conductor ("thin dike")
S Conductive cover ("horizontal thin sheet")
H Broad conductive rock unit, deep conductive weathering, thick conductive cover ("half space")
E Edge of broad conductor ("edge of half space")
L Culture, e.g. power line, metal building or fence

FLIGHT LINES WITH EM ANOMALIES

Flight number
Flight direction
Flight line number
Refight Number
Line Number
Area Number
Fiducials identified on profiles
Dip direction
EM anomaly (see EM legend)
Conductor axis (on EM maps only)
Arcs indicate the conductor has a thickness > 10m
Magnetic correlation in nT (gammas)

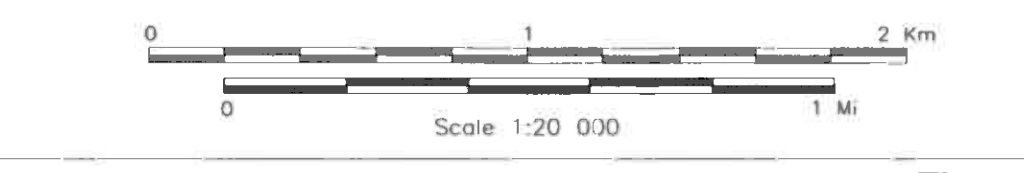
LOCATION MAP

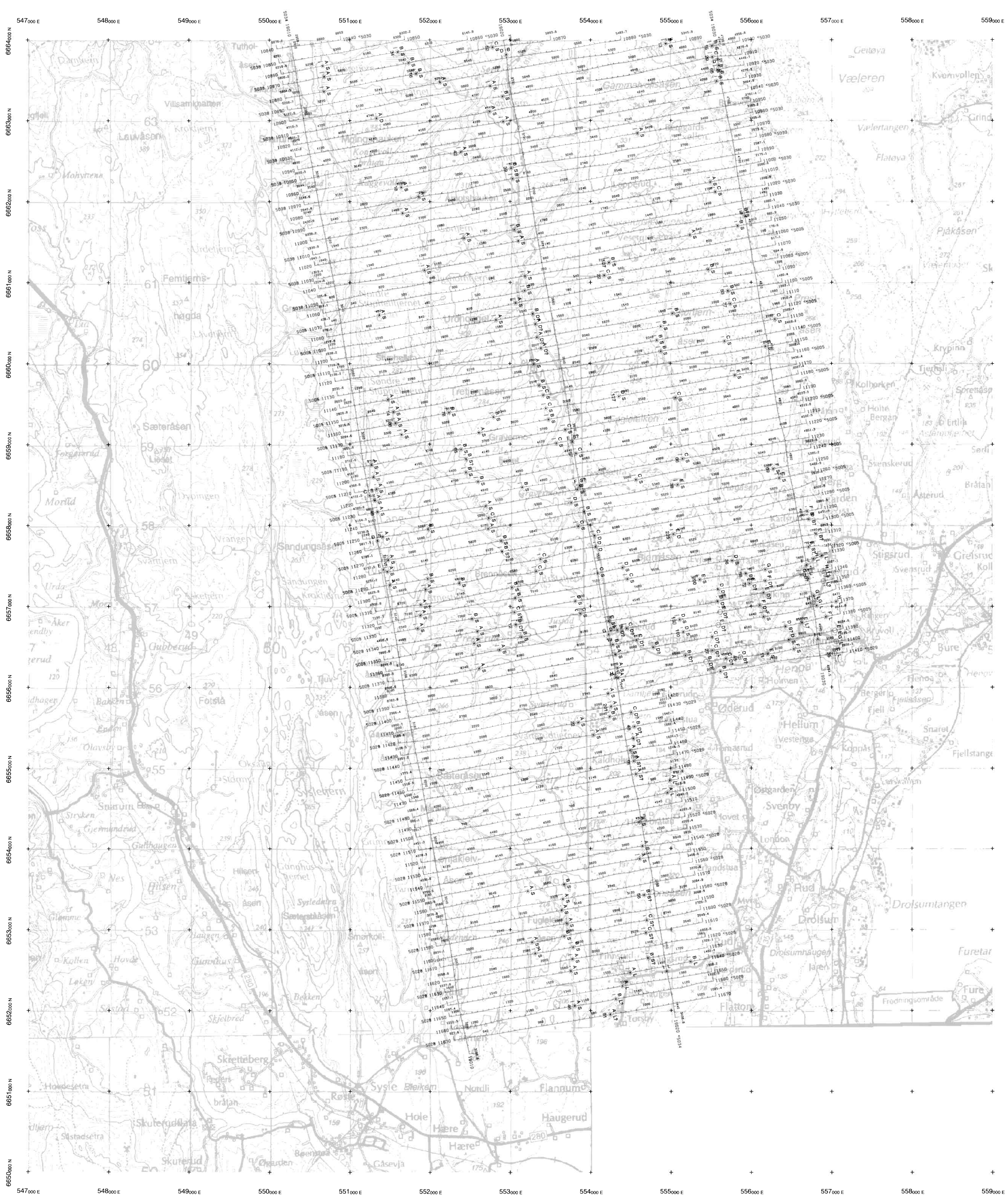


SULFIDMALM A/S
ERTELEN 1-2 AREAS, NORWAY

ELECTROMAGNETIC ANOMALIES

FUGRO DIGHEM SURVEY	REF: 1715 II; 1815 III	GEOPHYSICIST:
DATE: MAY, 2006	JOB: 06009	SHEET: 1
Fugro Airborne Surveys		





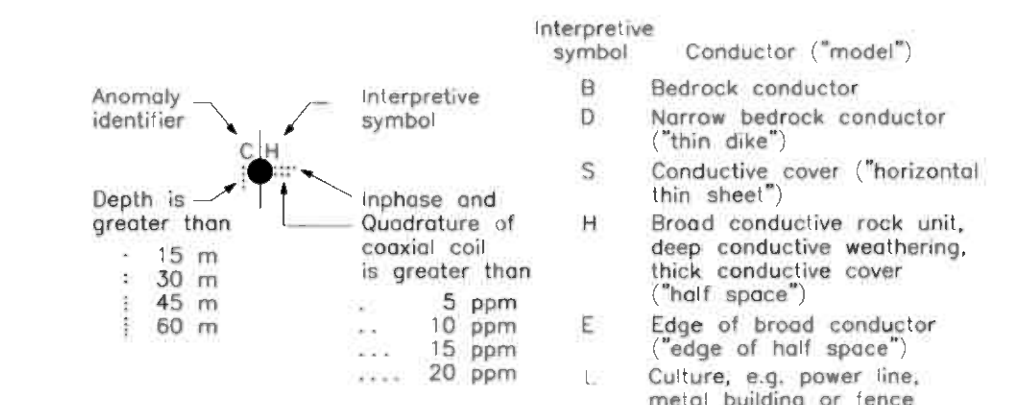
TECHNICAL SUMMARY

Navigation: Differentially-corrected GPS
Data reduction grid interval: 30 metres
Terrain clearance: Helicopter 57 m
Electromagnetic sensor 30 m
Magnetometer 30 m
Data sampling interval: 0.1 second
Magnetics system / separation: Dual sensor horizontal gradiometer / 5 m
Magnetometer / sensitivity: Cesium / 0.01 nT
Electromagnetic system: DIGEM

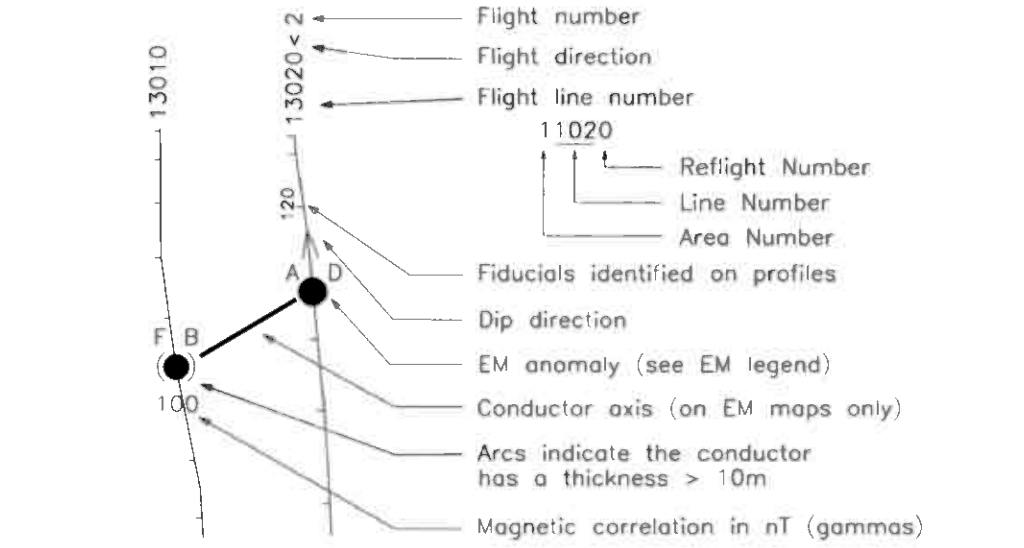
Frequency	Sensitivity	Coil Orientation
1000 Hz	06 ppm	Vertical coplanar
5500 Hz	12 ppm	Vertical coplanar
900 Hz	12 ppm	Horizontal coplanar
7200 Hz	24 ppm	Horizontal coplanar
56000 Hz	60 ppm	Horizontal coplanar

ELECTROMAGNETIC ANOMALIES

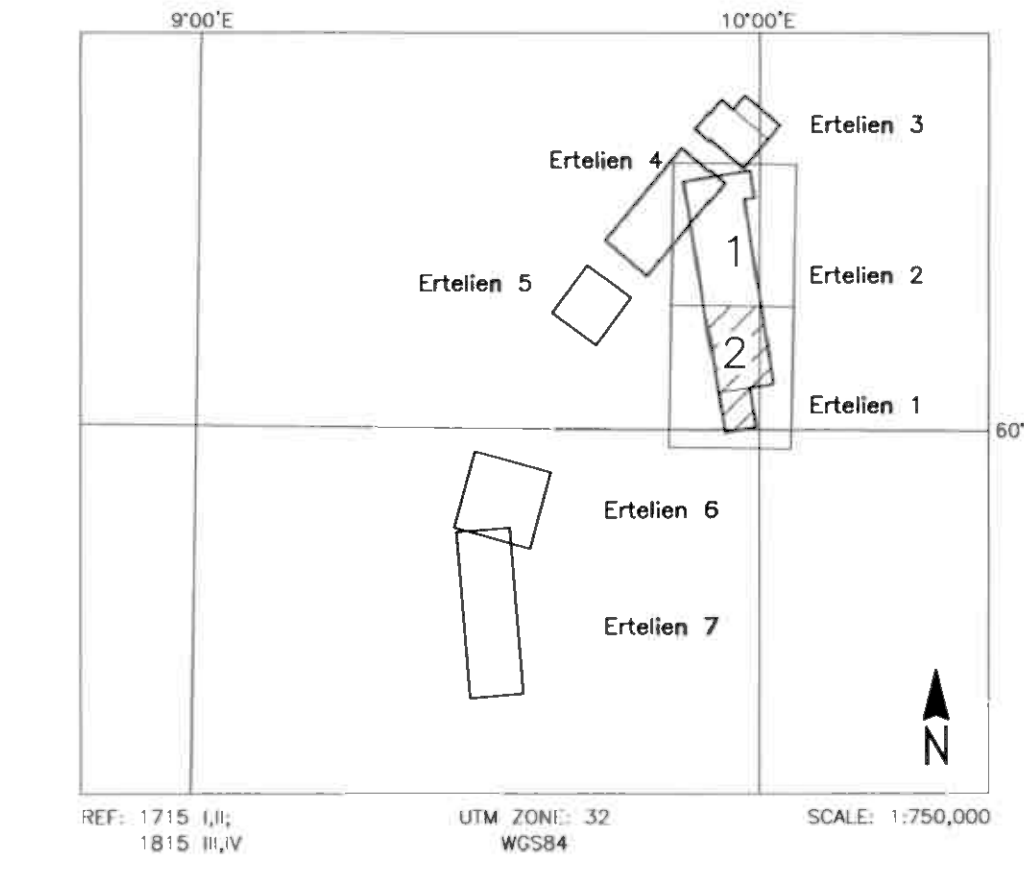
Grade	Anomaly	Conductance
7	●	>100 siemens
6	●	50-100 siemens
5	●	20-50 siemens
4	●	10-20 siemens
3	●	5-10 siemens
2	●	1-5 siemens
1	●	<1 siemens
-	*	Questionable anomaly



FLIGHT LINES WITH EM ANOMALIES



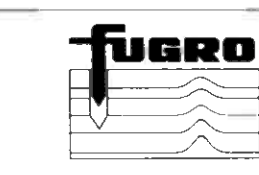
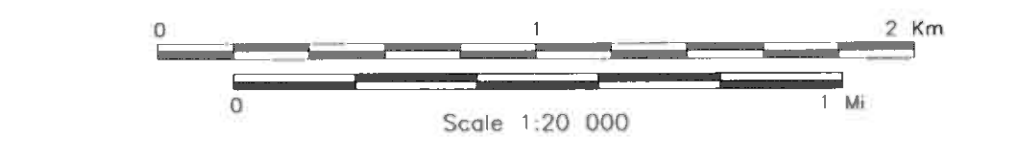
LOCATION MAP



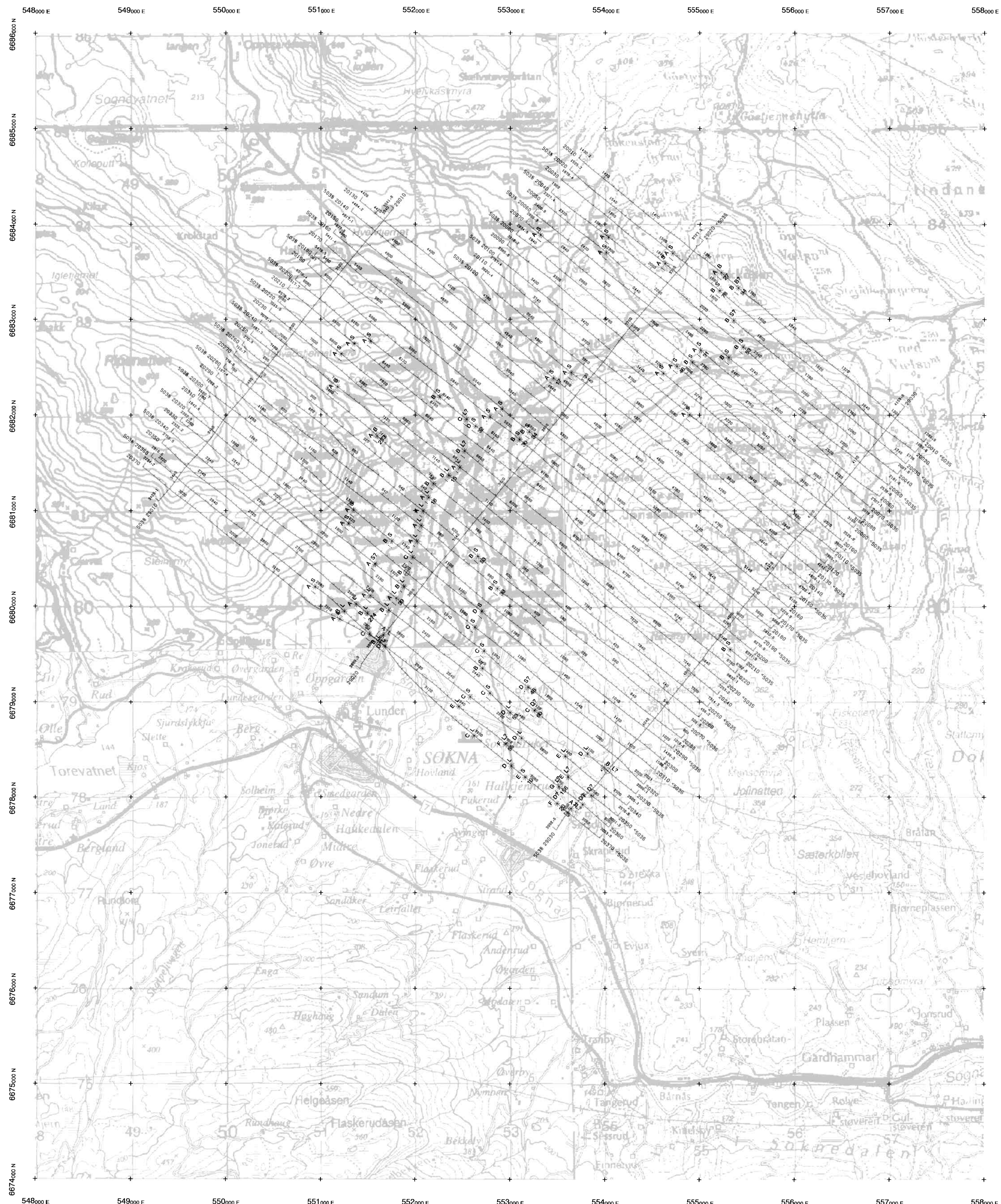
SULFIDMALM A/S
ERTELIEN 1-2 AREAS, NORWAY

ELECTROMAGNETIC ANOMALIES

FUGRO DIGEM* SURVEY	REF: 1715 III; 1815 III	GEOPHYSICIST:
DATE: MAY, 2006	JOB: 06009	SHEET: 2
Fugro Airborne Surveys		



FUGRO AIRBORNE SURVEYS



TECHNICAL SUMMARY

Navigation	Differentially-corrected GPS
Data reduction grid interval	30 metres
Terrain clearance	Helicopter 57 m Electromagnetic sensor 30 m Magnetometer 30 m
Data sampling interval	0.1 second
Magnetics system / separation	Dual sensor horizontal gradiometer / 5 m
Magnetometer / sensitivity	Cesium / 0.01 nT
Electromagnetic system	DIGHEM*

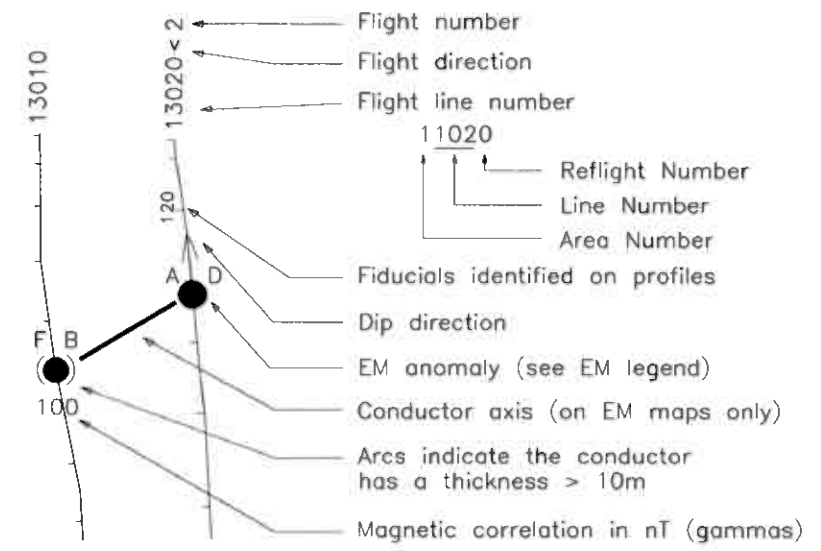
Frequency	Sensitivity	Coil Orientation
1000 Hz	.06 ppm	Vertical coaxial
5500 Hz	.12 ppm	Vertical coaxial
900 Hz	.12 ppm	Horizontal coplanar
7200 Hz	.24 ppm	Horizontal coplanar
56000 Hz	.60 ppm	Horizontal coplanar

ELECTROMAGNETIC ANOMALIES

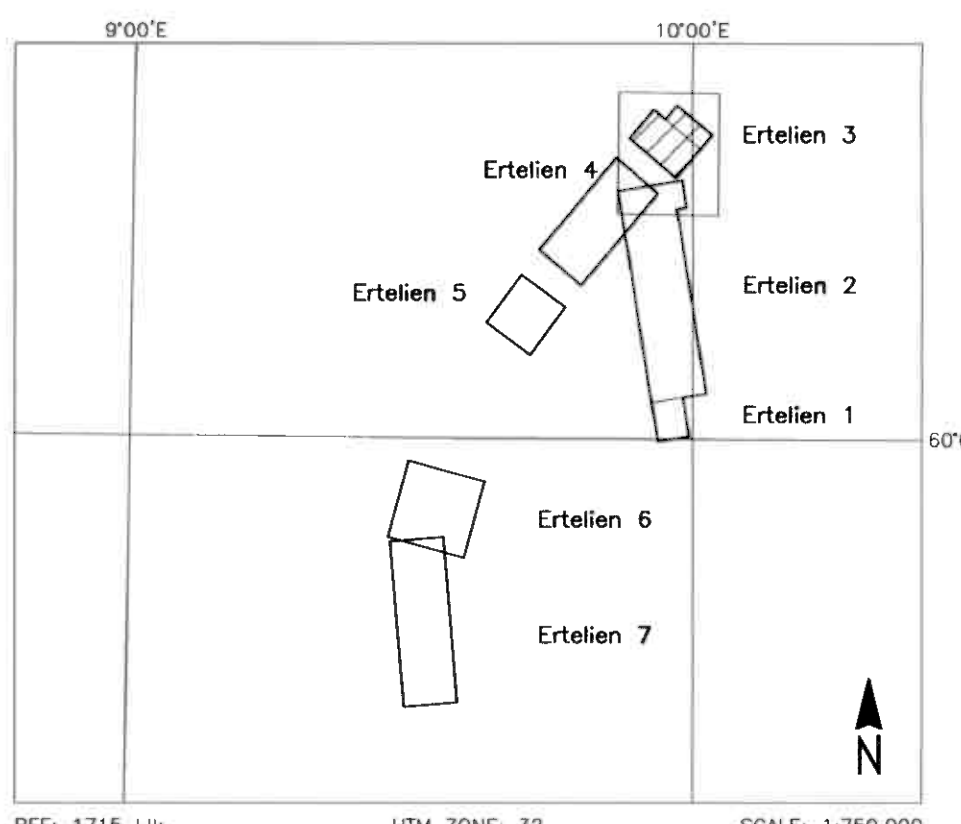
Grade	Anomaly	Conductance
7	●	>100 siemens
6	●	50-100 siemens
5	●	20-50 siemens
4	●	10-20 siemens
3	●	5-10 siemens
2	●	1-5 siemens
1	●	< 1 siemens
-	●	Questionable anomaly

Anomaly identifier	Interpretive symbol	Conductor ("model")
B	●	Bedrock conductor
D	●	Narrow bedrock conductor ("thin dike")
S	●	Conductive cover ("horizontal thin sheet")
H	●	Broad conductive rock unit, deep conductive weathering, thick conductive cover ("half space")
E	●	Edge of broad conductor ("edge of half space")
L	●	Culture, e.g. power line, metal building or fence

FLIGHT LINES WITH EM ANOMALIES



LOCATION MAP

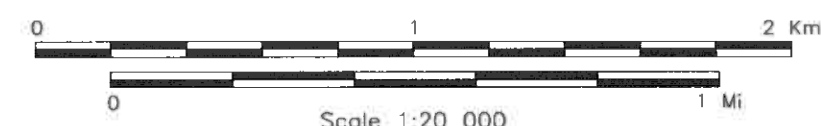


SULFIDMALM A/S
ERTELIEN 3 AREA, NORWAY

ELECTROMAGNETIC ANOMALIES

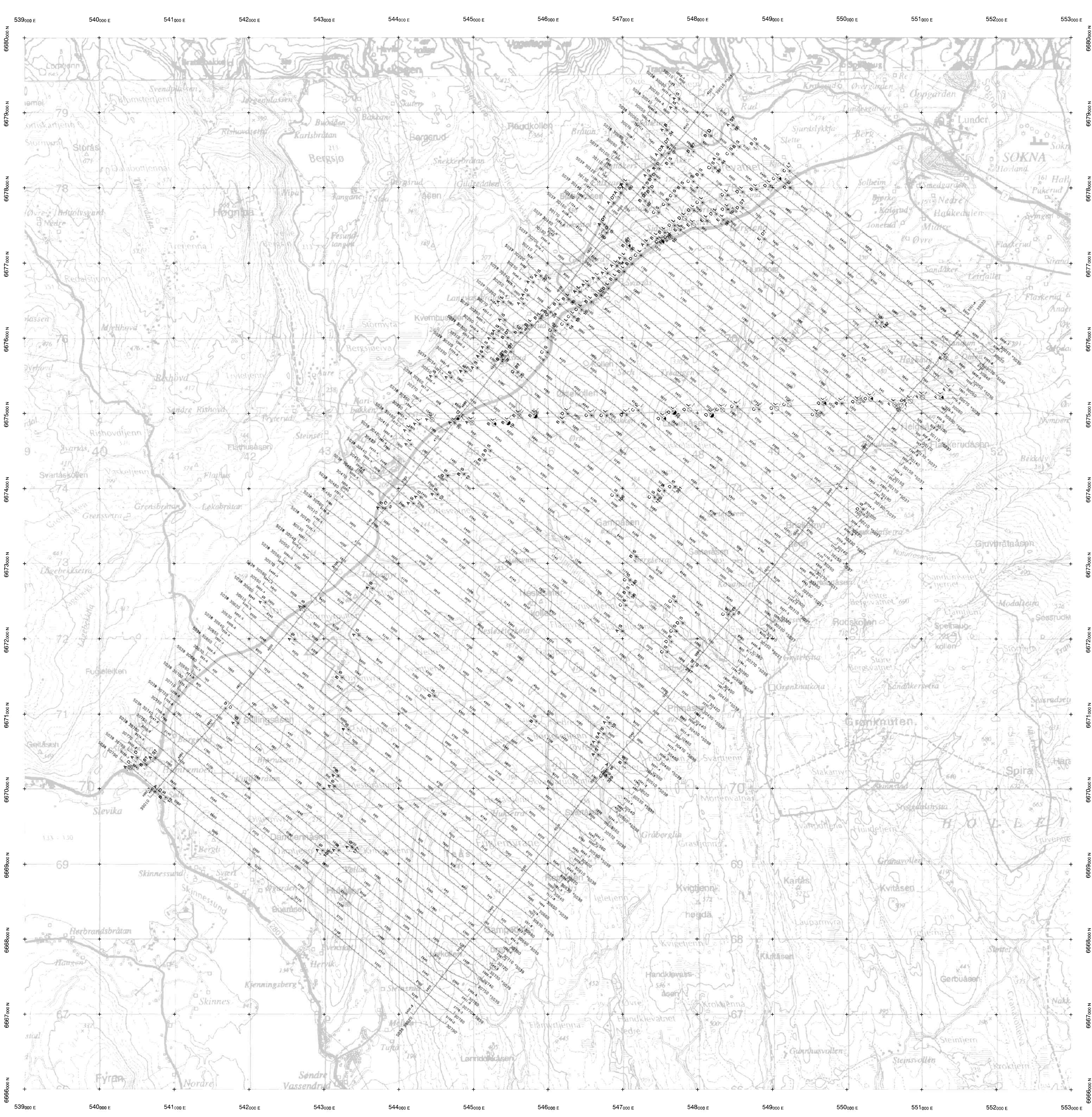
FUGRO DIGHEM* SURVEY	REF: 1715 I/J; 1815 III/V	GEOPHYSICIST:
DATE: MAY, 2006	JOB: 06009	SHEET: 1

Fugro Airborne Surveys



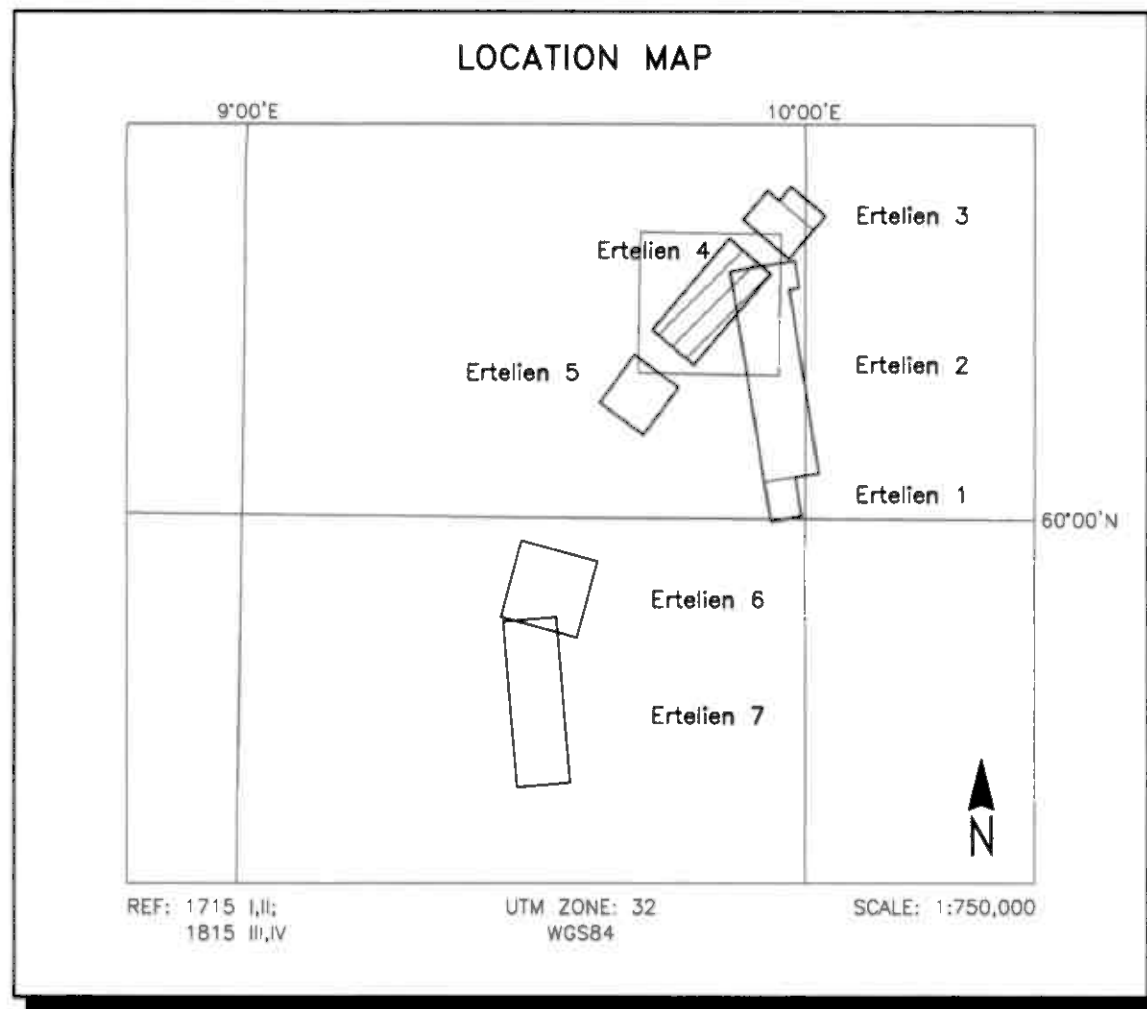
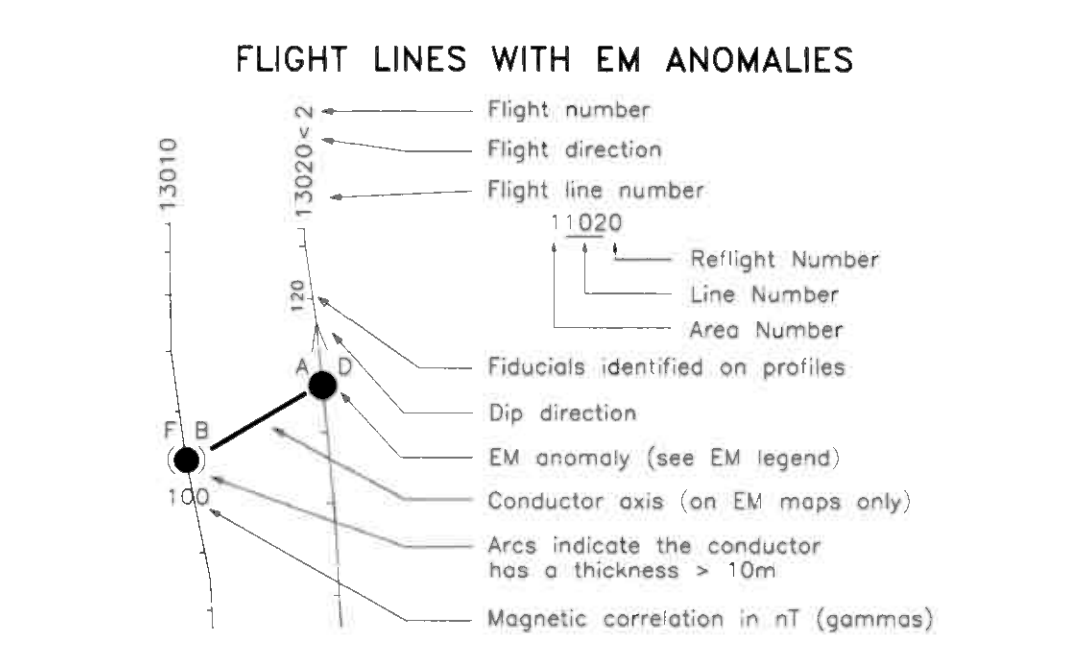
FUGRO AIRBORNE SURVEYS





TECHNICAL SUMMARY			
Navigation	Differentially-corrected GPS		
Data reduction grid interval	30 metres		
Terrain clearance	Helicopter 57 m		
	Electromagnetic sensor 30 m		
	Magnetometer 30 m		
Data sampling interval	0.1 second		
Magnetics system / separation	Dual sensor horizontal gradiometer / 5 m		
Magnetometer / sensitivity	Cesium / 0.01 nT		
Electromagnetic system	DIGHEM		
Frequency	Sensitivity	Coil Orientation	
1000 Hz	06 ppm	Vertical coaxial	
5500 Hz	12 ppm	Vertical coaxial	
950 Hz	20-50 siemens	Horizontal coplanar	
7200 Hz	24 ppm	Horizontal coplanar	
56000 Hz	60 ppm	Horizontal coplanar	

ELECTROMAGNETIC ANOMALIES		
Grade	Anomaly	Conductance
7	●	>100 siemens
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4	●	10-20 siemens
3	●	5-10 siemens
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1	●	<1 siemens
-	*	Questionable anomaly
Interpretive symbol		
B	Bedrock conductor	
D	Narrow bedrock conductor ("thin dike")	
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E	Edge of broad conductor ("edge of half space")	
L	Culture, e.g. power line, metal building or fence	



SULFIDMALM A/S
ERTELEN 4 AREA, NORWAY

ELECTROMAGNETIC ANOMALIES

FUGRO DIGHEM[®] SURVEY

DATE: MAY, 2006

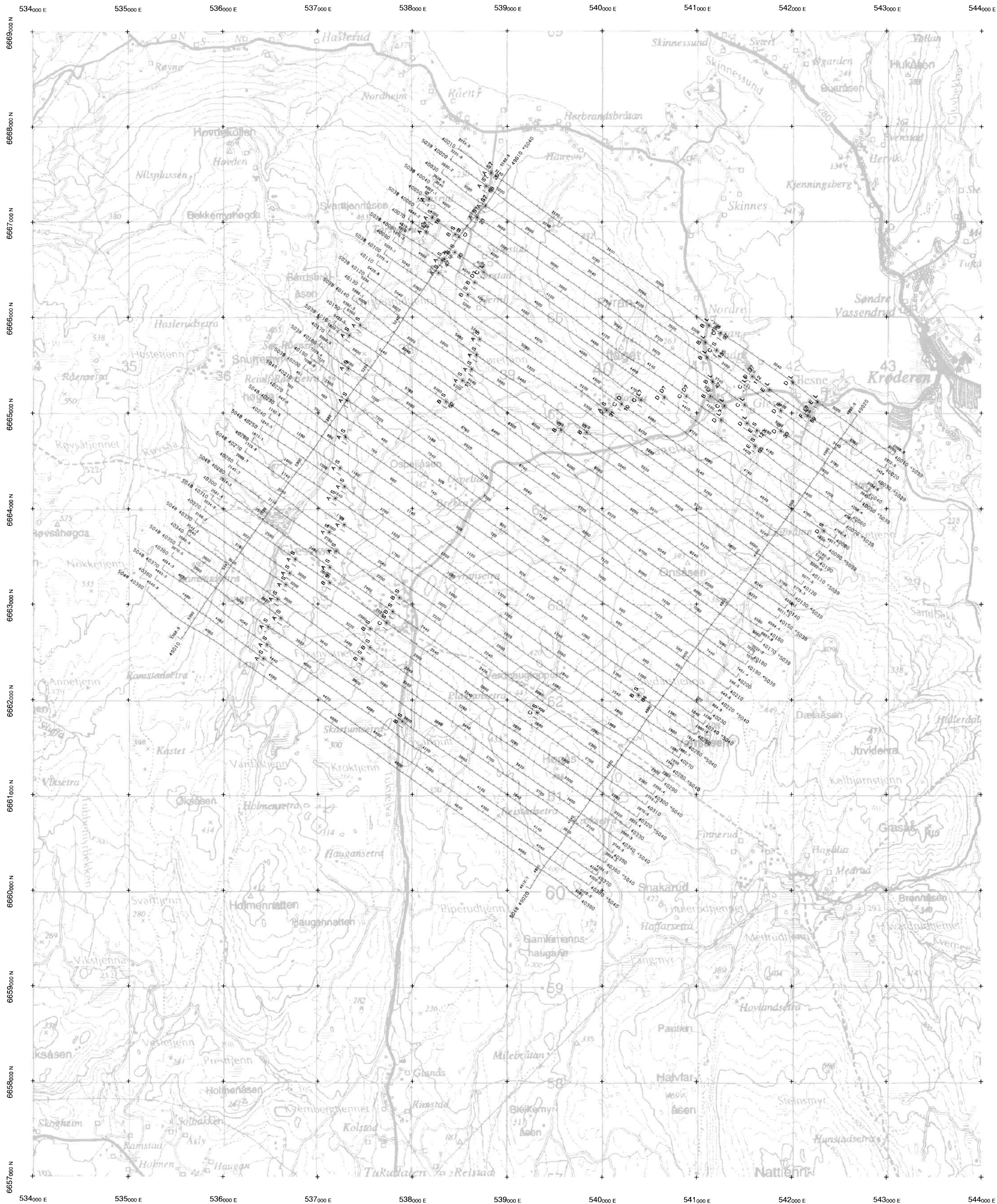
REF: 1715 II

JOB: 06009

GEOPHYSICIST:

SHEET: 1

Fugro Airborne Surveys



TECHNICAL SUMMARY

Navigation	Differential-corrected GPS
Data reduction grid interval	30 metres
Terrain clearance	Helicopter 57 m
	Electromagnetic sensor 30 m
	Magnetometer 30 m
Data sampling interval	0.1 second
Magnetics system / separation	Dual sensor horizontal gradiometer / 5 m
Magnetometer / sensitivity	Cesium / 0.01 nT
Electromagnetic system	DIGHEM*

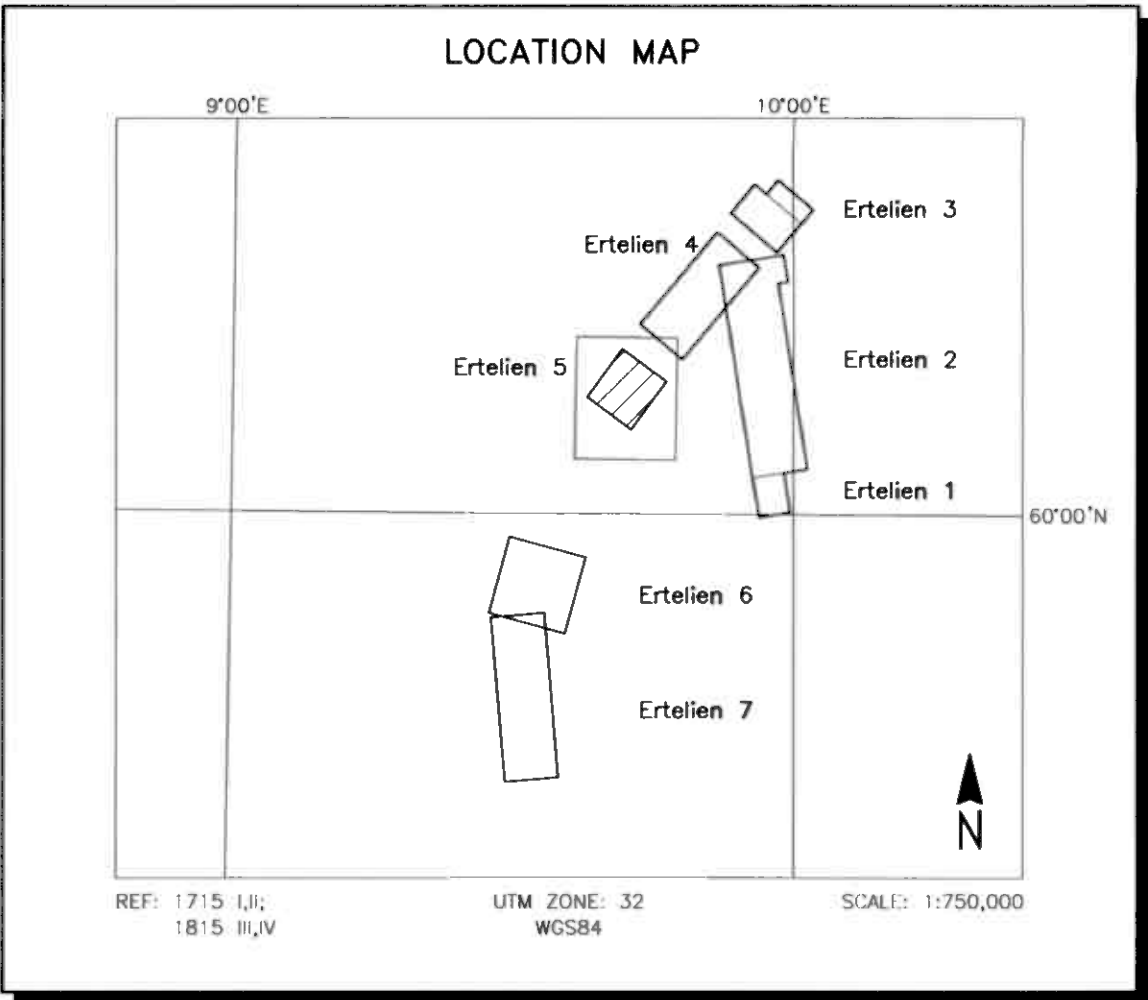
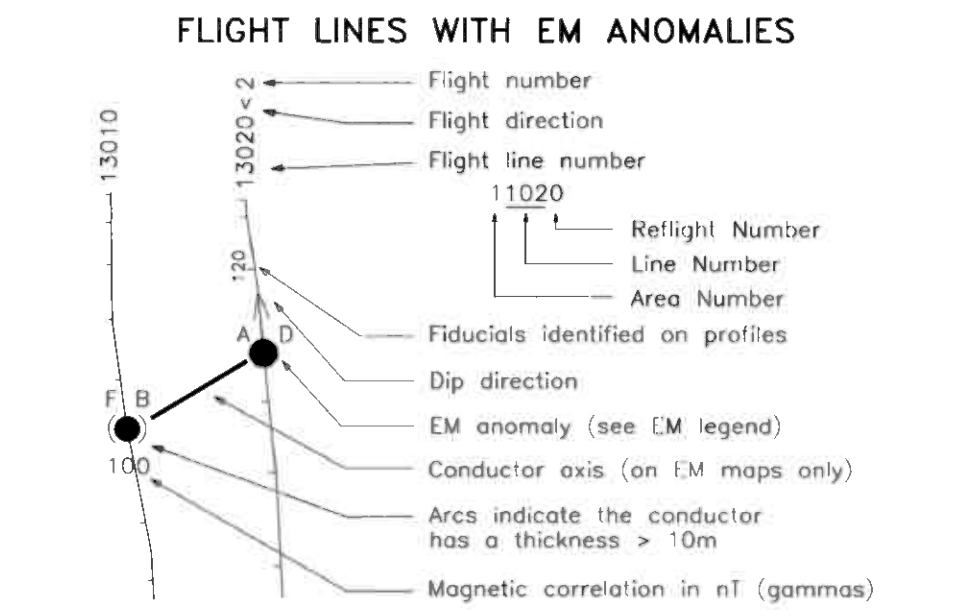
Frequency	Sensitivity	Coil Orientation
1000 Hz	.06 ppm	Vertical coaxial
5500 Hz	.12 ppm	Vertical coaxial
900 Hz	.12 ppm	Horizontal coplanar
7200 Hz	.24 ppm	Horizontal coplanar
56000 Hz	.60 ppm	Horizontal coplanar

ELECTROMAGNETIC ANOMALIES

Grade	Anomaly	Conductance
7	●	>100 siemens
6	●	50-100 siemens
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3	●	5-10 siemens
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1	●	< 1 siemens
-	*	Questionable anomaly

Interpretive symbol

Interpretive symbol	Conductor ("model")
B	Bedrock conductor
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E	Edge of broad conductor ("edge of half space")
L	Culture, e.g. power line, metal building or fence

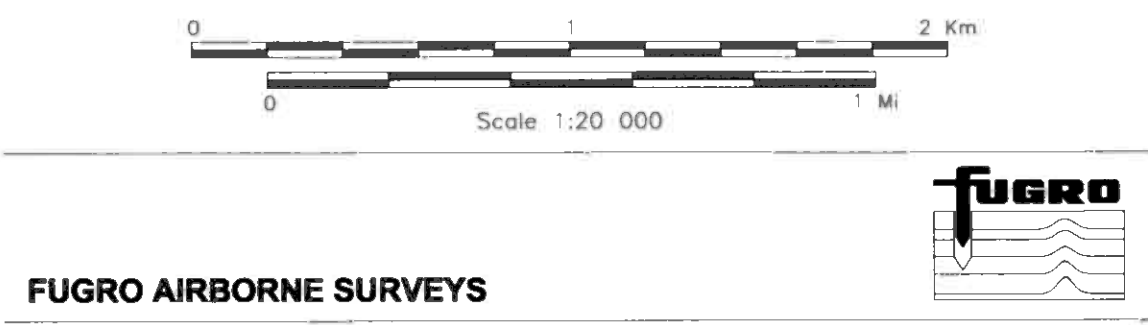


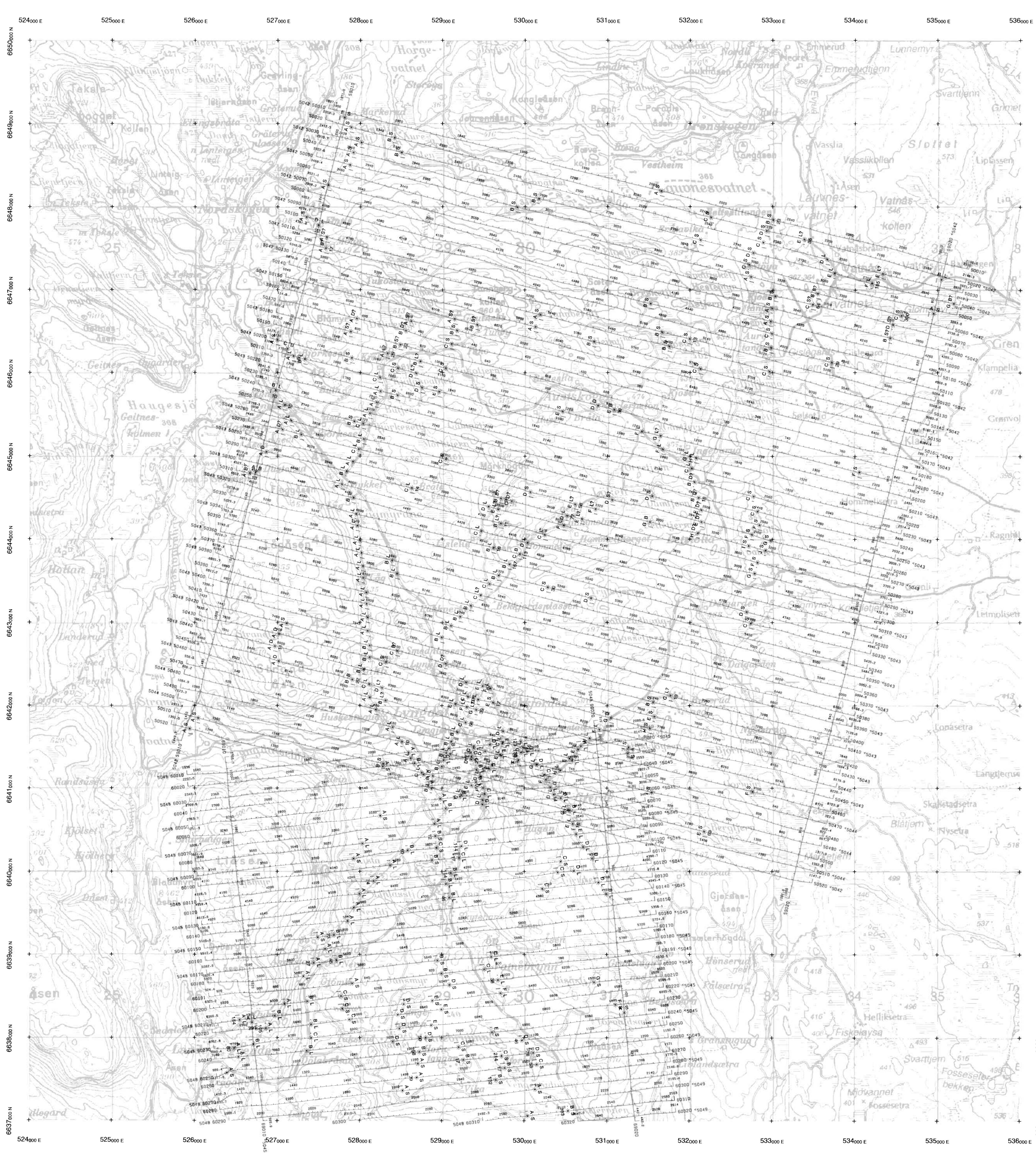
SULFIDMALM A/S
ERTELIE 5 AREA, NORWAY

ELECTROMAGNETIC ANOMALIES

FUGRO DIGHEM* SURVEY	REF: 1715 II	GEOPHYSICIST:
DATE: MAY, 2006	JOB: 06009	SHEET: 1

Fugro Airborne Surveys





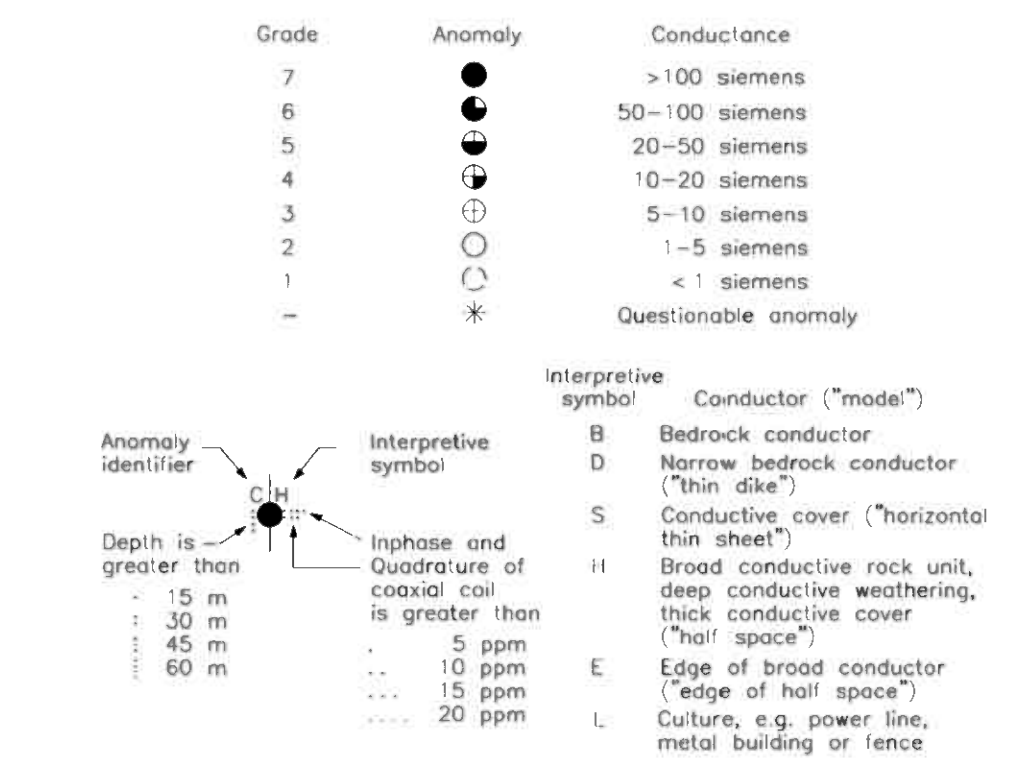
TECHNICAL SUMMARY

Navigation
Data reduction grid interval : 30 metres
Terrain clearance : 57 m
Data sampling interval : 0.1 second
Magnetics system / separation : Dual sensor horizontal gradiometer / 5 m
Magnetometer / sensitivity : Cesium / 0.01 nT
Electromagnetic system : DigHEM[®]

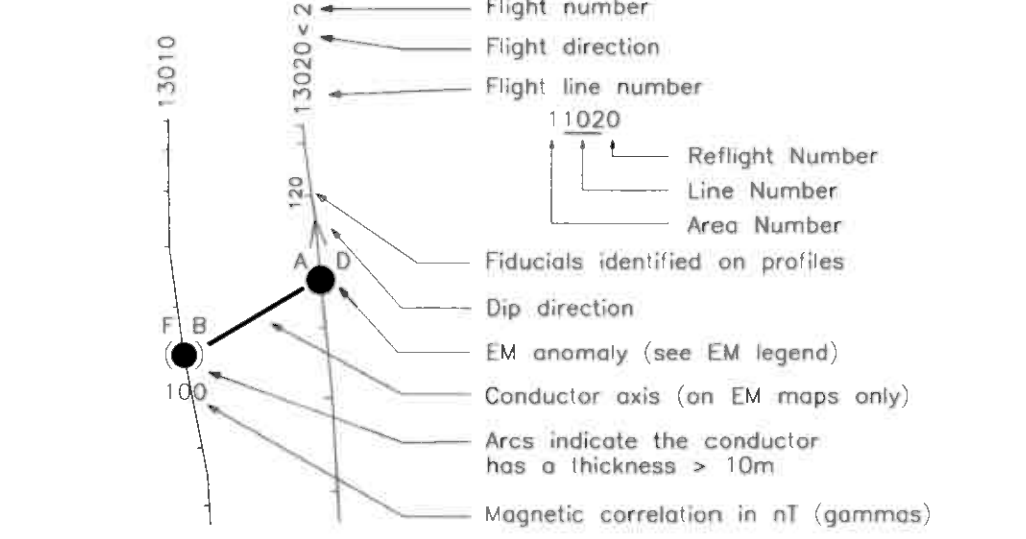
Differentially-corrected GPS
Helicopter 57 m
Electromagnetic sensor 30 m
Magnetometer 30 m
Dual sensor horizontal gradiometer / 5 m
Cesium / 0.01 nT
DigHEM[®]

Frequency	Sensitivity	Coil Orientation
1000 Hz	0.06 ppm	Vertical coaxial
5500 Hz	0.12 ppm	Vertical coaxial
900 Hz	0.12 ppm	Horizontal coplanar
7200 Hz	0.24 ppm	Horizontal coplanar
56000 Hz	0.60 ppm	Horizontal coplanar

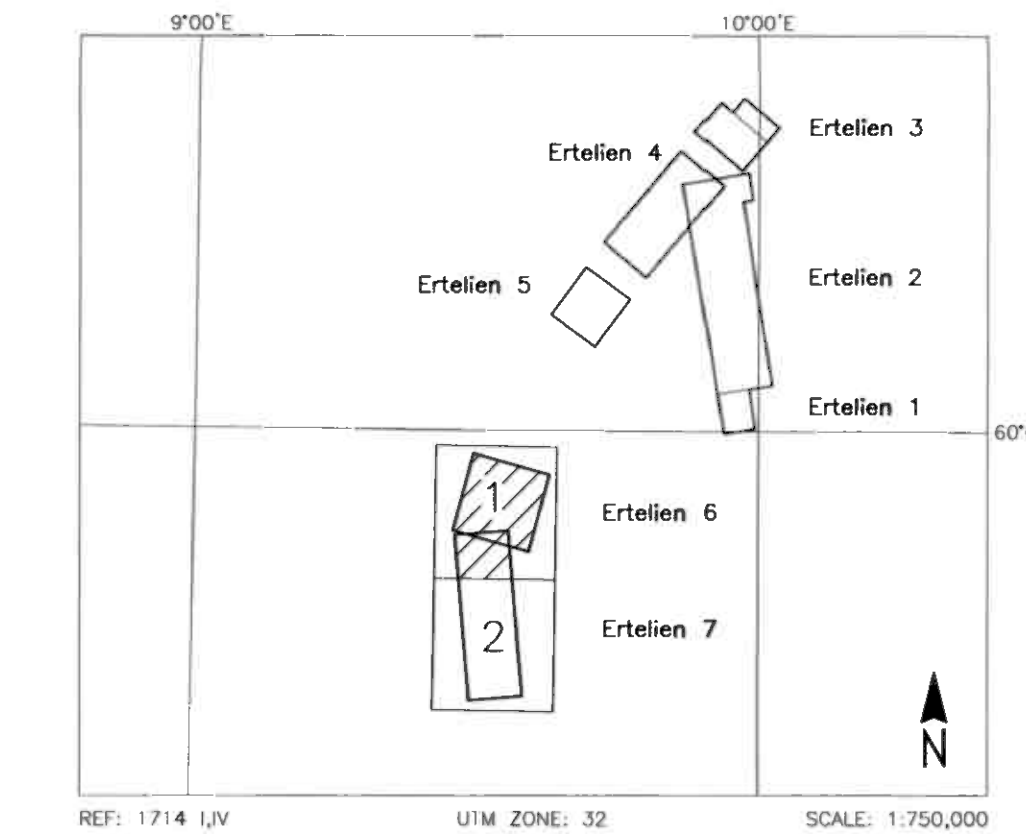
ELECTROMAGNETIC ANOMALIES



FLIGHT LINES WITH EM ANOMALIES



LOCATION MAP



SULFIDMALM A/S
ERTELIEN 6-7 AREAS, NORWAY

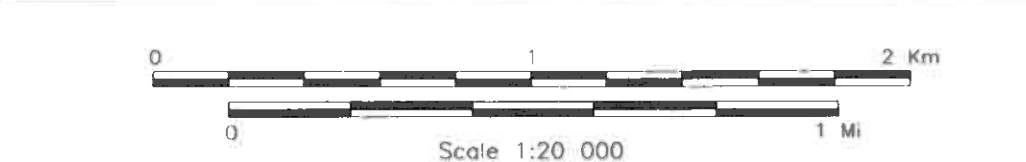
ELECTROMAGNETIC ANOMALIES

FUGRO DIGHEM[®] SURVEY
DATE: MAY, 2006

REF: 1714 IJV
JOB: 06009

GEOPHYSICIS:
SHEET: 1

Fugro Airborne Surveys



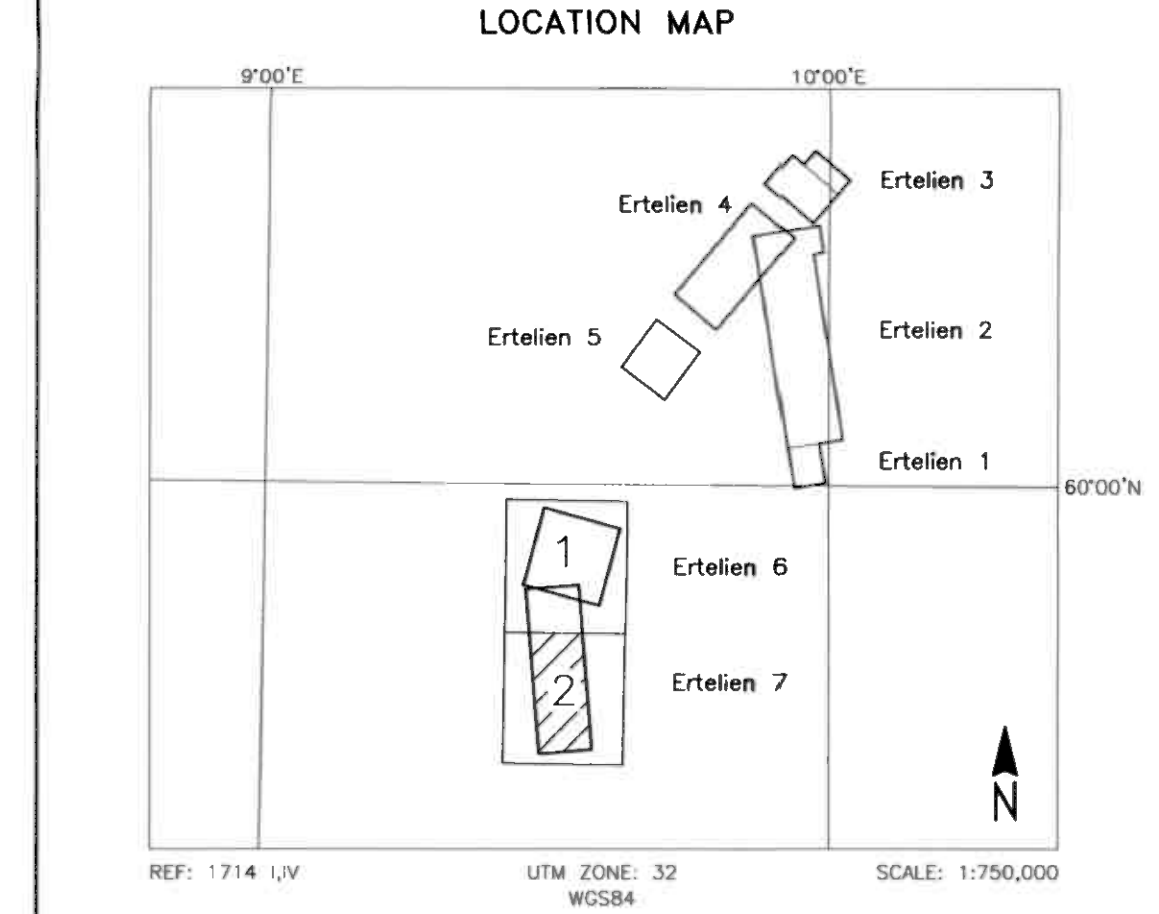


Navigation	Differentially-corrected GPS
Data reduction grid interval	30 metres
Terrain clearance	Helicopter 57 m
	Electromagnetic sensor 30 m
	Magnetometer 30 m
Data sampling interval	0.1 second
Magnetics system / separation	Dual sensor horizontal gradiometer / 5 m
Magnetometer / sensitivity	Cesium / 0.01 nT
Electromagnetic system	DGHM*

Grade	Anomaly	Conductance
7		>100 siemens
6		50–100 siemens
5		20–50 siemens
4		10–20 siemens
3		5–10 siemens
2		1–5 siemens
1		< 1 siemens
–		Questionable anomaly

Anom
identi

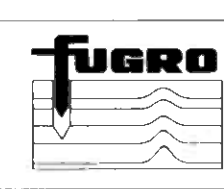
Depth
great

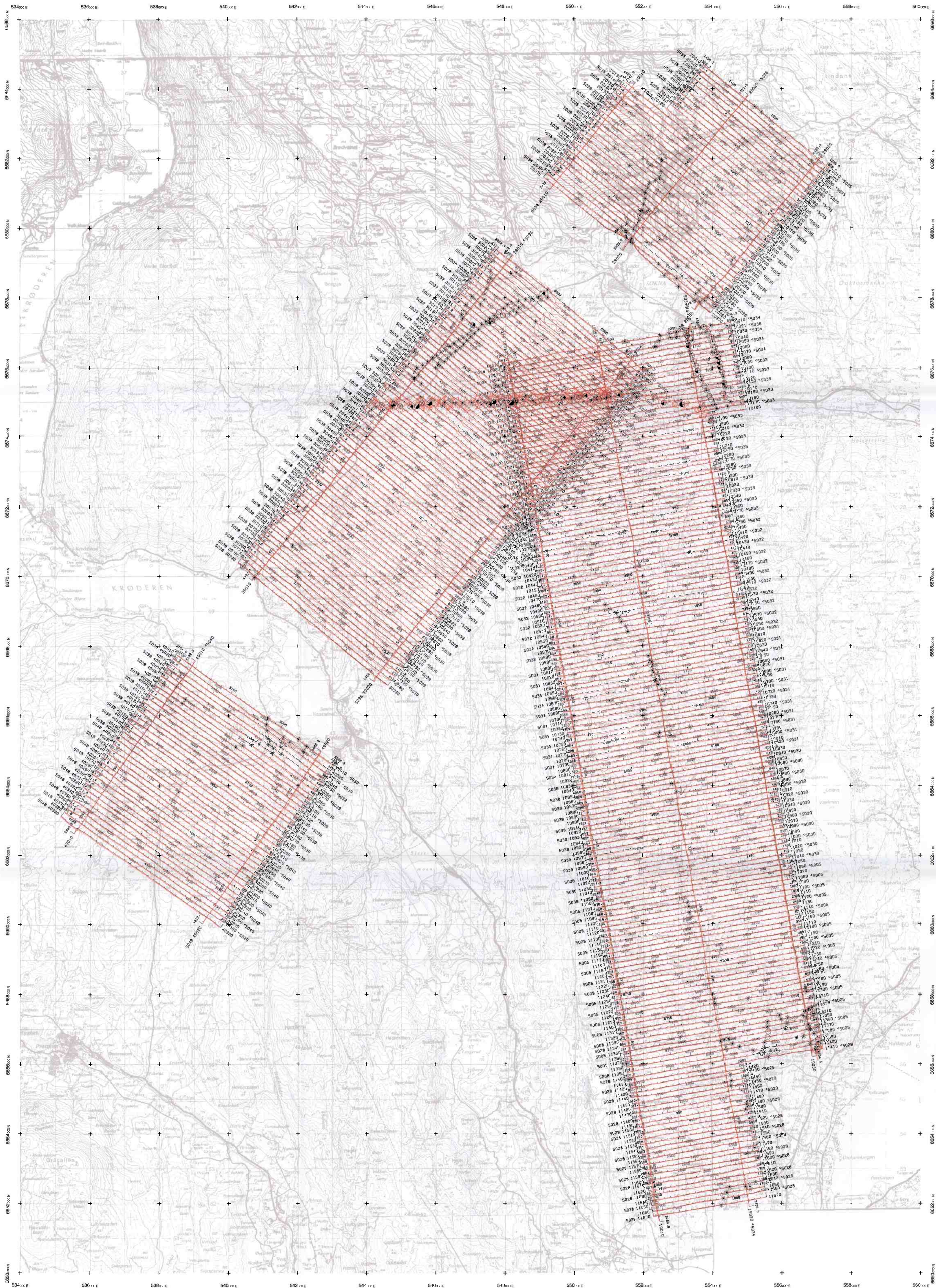


ELECTROMAGNETIC ANOMALIES

FUGRO DIGHEM* SURVEY	REF: 1714 I,IV	GEOPHYSICS/ST
DATE: MAY, 2006	JOB: 06009	SHEET: 2

Fugro Airborne Surveys





TECHNICAL SUMMARY

Navigation Differentially-corrected GPS
Data reduction grid interval 30 metres
Terrain clearance Helicopter 57 m
Electromagnetic sensor 30 m
Magnetometer 30 m
Data sampling interval 0.1 second
Magnetics system / separation Dual sensor horizontal gradiometer / 5 m
Magnetometer / sensitivity Cesium / 0.01 nT
Electromagnetic system DGHM

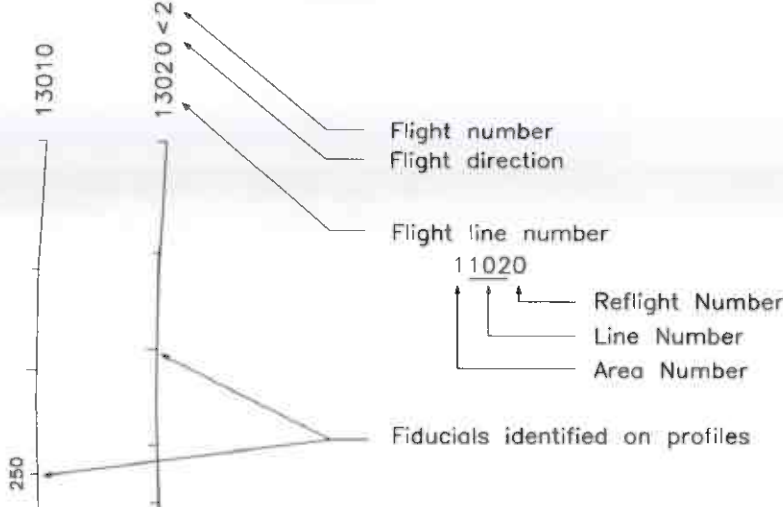


Frequency	Sensitivity	Coil Orientation
1000 Hz	.05 ppm	Vertical coaxial
5500 Hz	.12 ppm	Horizontal coaxial
900 Hz	.12 ppm	Horizontal coplanar
7200 Hz	.24 ppm	Horizontal coplanar
56000 Hz	.60 ppm	Horizontal coplanar

ELECTROMAGNETIC ANOMALIES

Grade	Anomaly	Conductance
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3	●	5-10 siemens
2	●	1-5 siemens
1	●	<1 siemens
-	×	Questionable anomaly

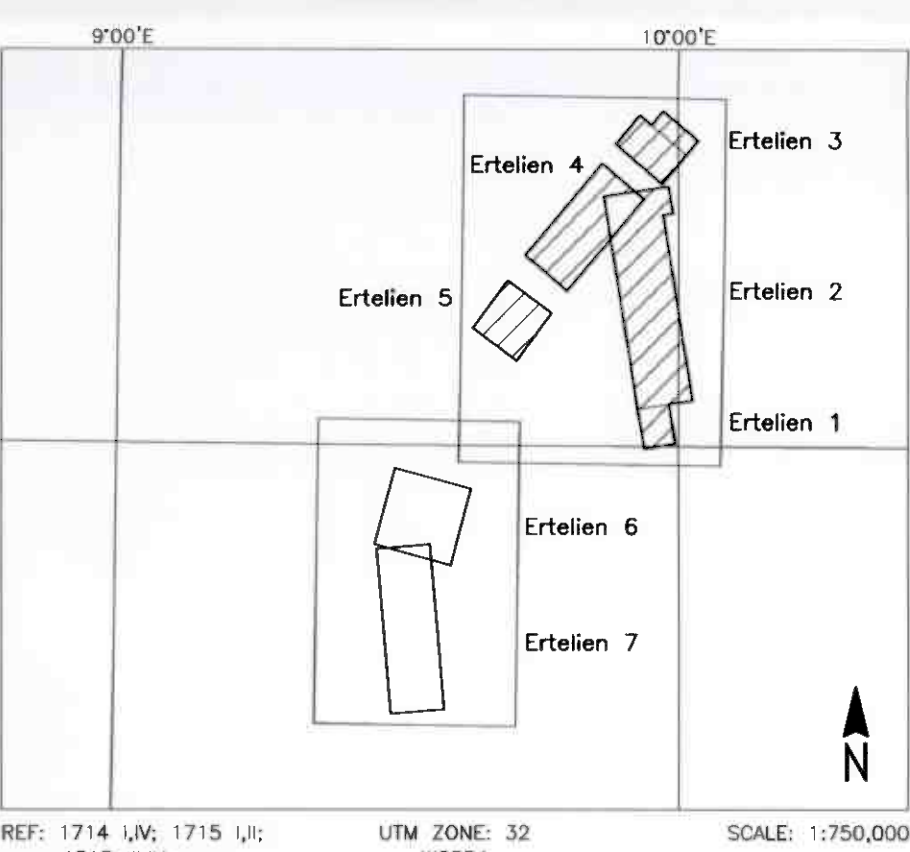
FLIGHT LINES



EM INPHASE & QUADRATURE PROFILES

Coaxial inphase 5 ppm/mm
Coaxial quadrature 5 ppm/mm

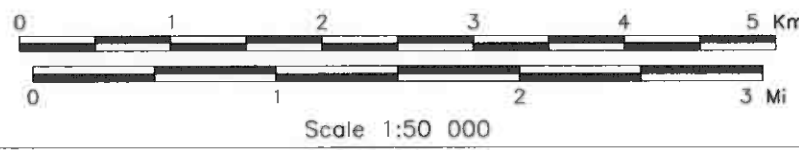
LOCATION MAP

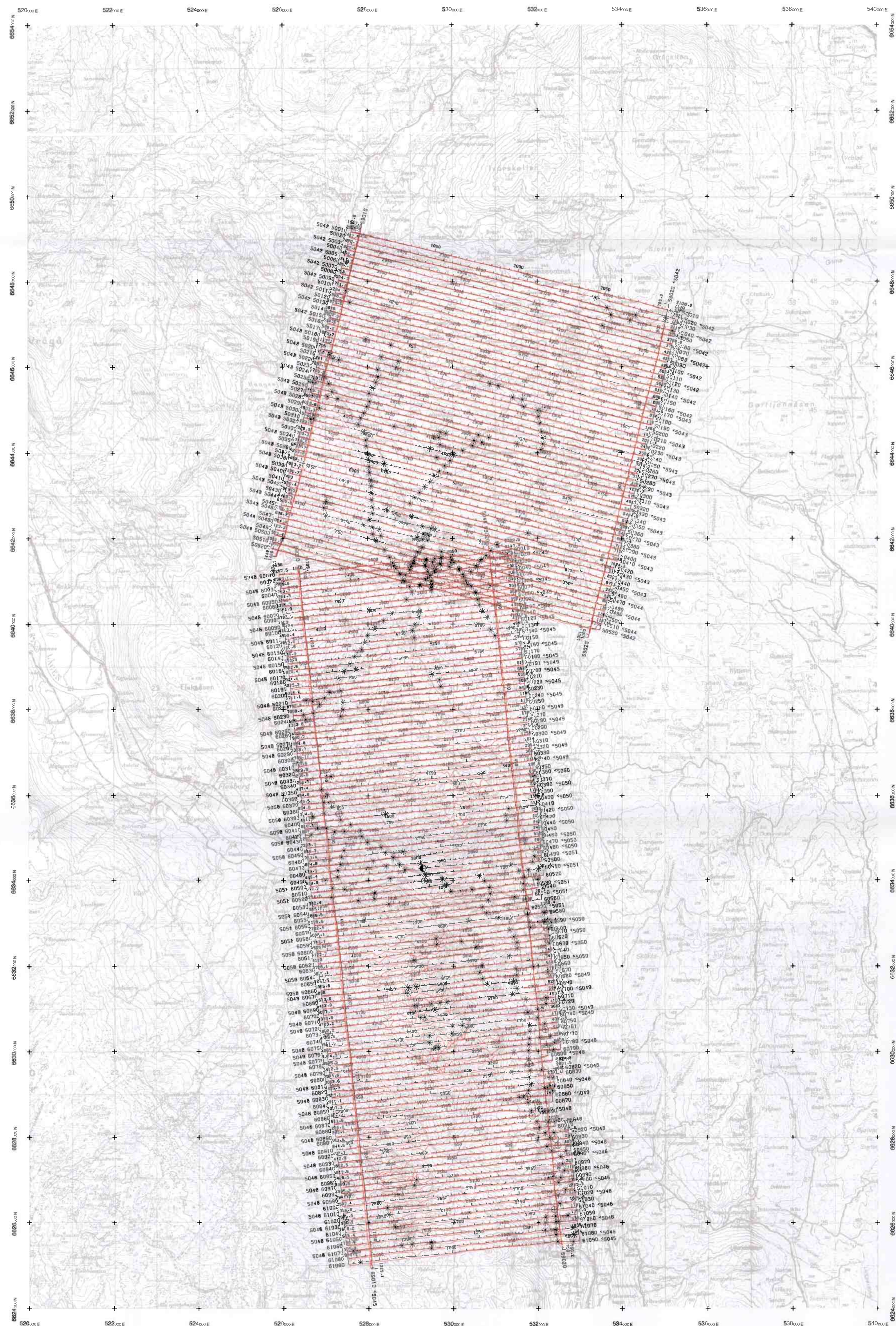


SULFIDMALM A/S ERTELEN 1-5 AREAS, NORWAY

EM COLOUR PROFILES (1000 Hz Coaxial)

FUGRO DIGHEM* SURVEY	REF: 1715 UTM, 1815 UTM	GEOPHYSICIST:
DATE: MAY, 2006	JOB: 06009	SHEET: 1
Fugro Airborne Surveys		





TECHNICAL SUMMARY

Navigation Differentially-corrected GPS
Data reduction grid interval 30 metres
Terrain clearance Helicopter 57 m
Electromagnetic sensor 30 m
Magnetometer 30 m
Data sampling interval 0.1 second
Magnetics system / separation Dual sensor horizontal gradiometer / 5 m
Magnetometer / sensitivity Cesium / 0.01 nT
Electromagnetic system DIGHEM

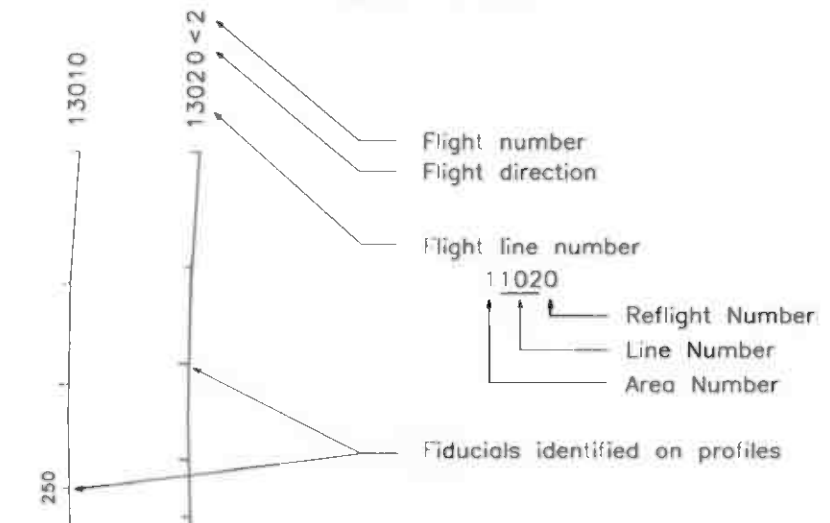


Frequency	Sensitivity	Coil Orientation
1000 Hz	.06 ppm	Vertical coaxial
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900 Hz	.12 ppm	Horizontal coplanar
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ELECTROMAGNETIC ANOMALIES

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2	●	1-5 siemens
1	●	< 1 siemens
-	×	Questionable anomaly

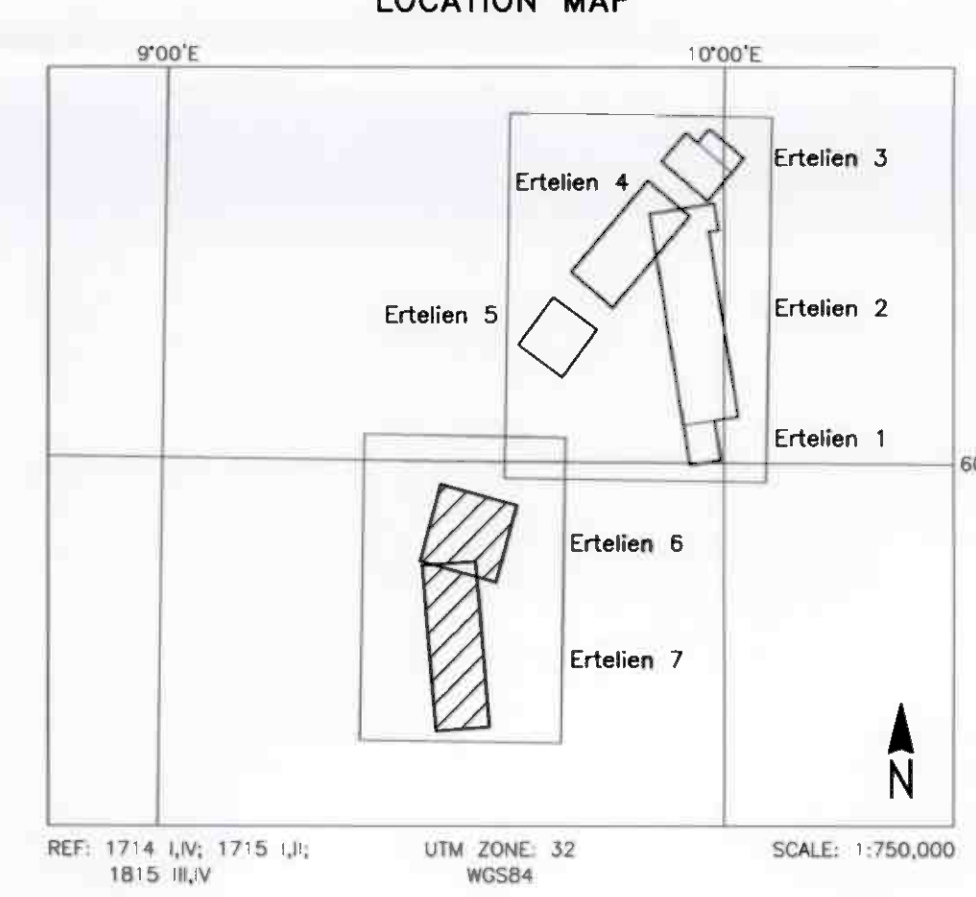
FLIGHT LINES



EM INPHASE & QUADRATURE PROFILES

Coaxial inphase 5 ppm/mm
Coaxial quadrature 5 ppm/mm

LOCATION MAP

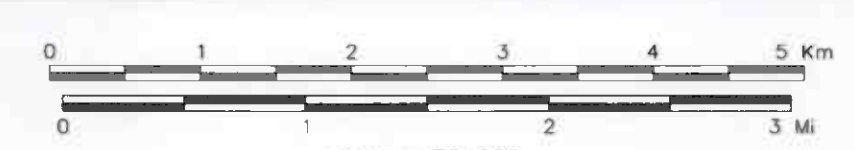


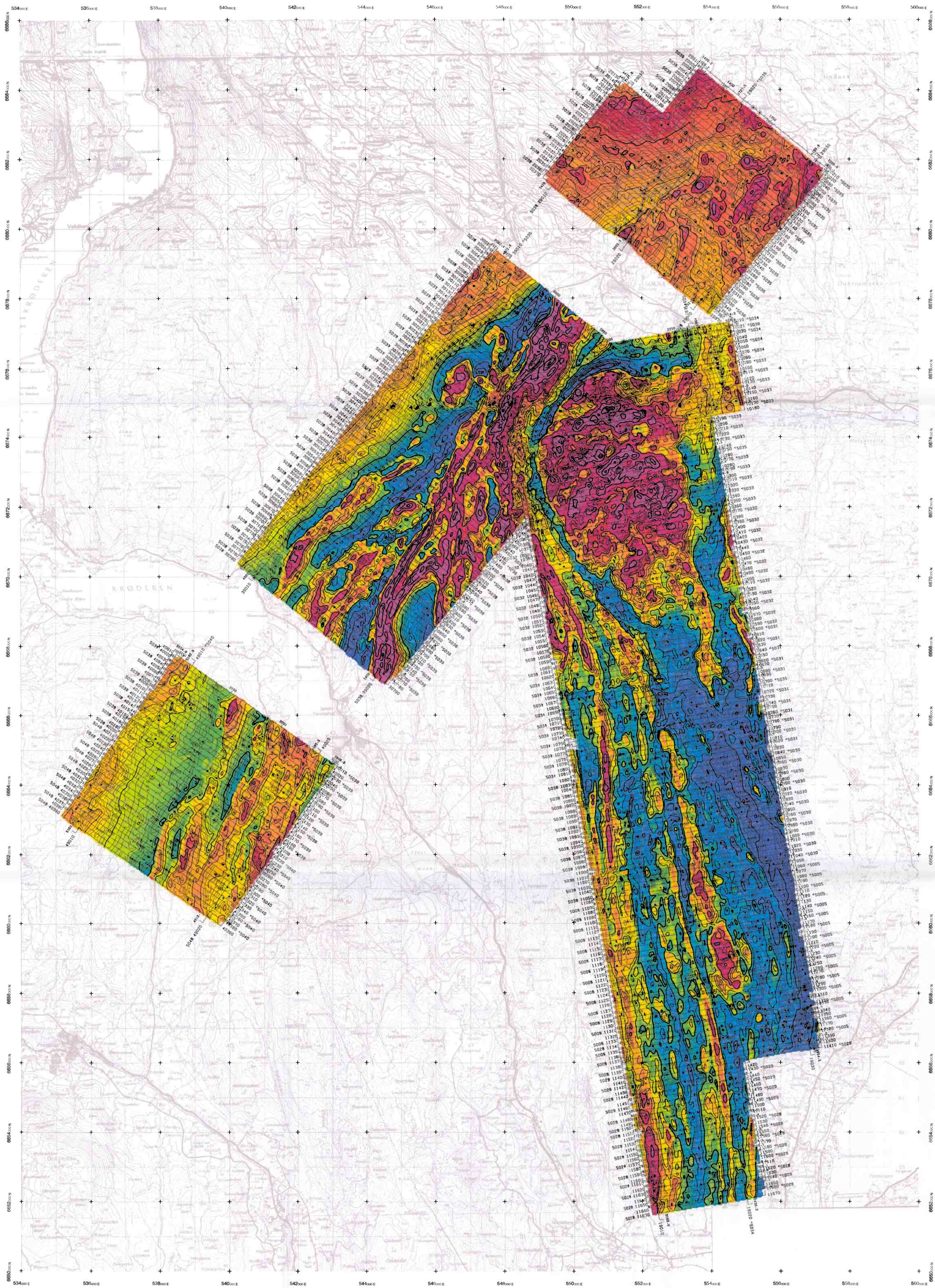
SULFIDMALM A/S
ERTELIEN 6-7 AREAS, NORWAY

EM COLOUR PROFILES
(1000 Hz Coaxial)

FUGRO DIGHEM* SURVEY	REF: 1714 IJV	GEOPHYSICIST:
DATE: MAY, 2006	JOB: 06009	SHEET: 1

Fugro Airborne Surveys





TECHNICAL SUMMARY

Navigation Differentially-corrected GPS
Data reduction grid interval 30 metres
Terrain clearance Helicopter 57 m
Electromagnetic sensor 30 m
Data sampling interval 0.1 second
Magnetometer / separation Dual sensor horizontal gradiometer / 5 m
Magnetometer / sensitivity Cesium / 0.01 nT
Electromagnetic system DIGHEM

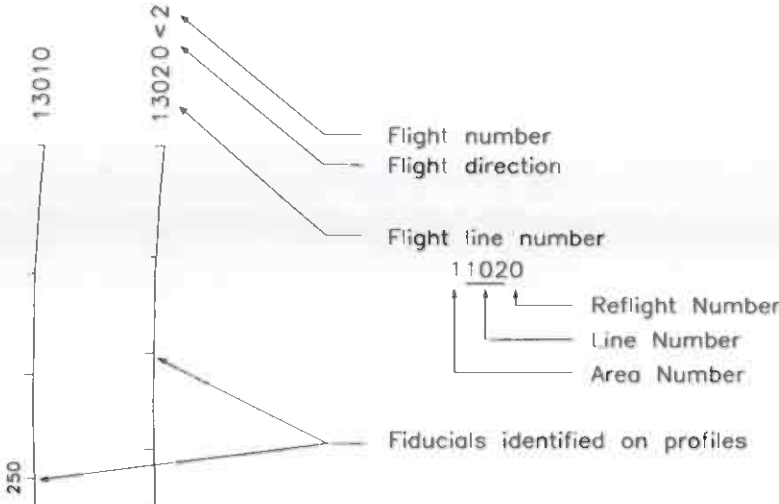
Frequency	Sensitivity	Coil Orientation
1000 Hz	0.6 ppm	Vertical coaxial
5500 Hz	12 ppm	Vertical coaxial
900 Hz	12 ppm	Horizontal coplanar
7200 Hz	24 ppm	Horizontal coplanar
56000 Hz	60 ppm	Horizontal coplanar



ELECTROMAGNETIC ANOMALIES

Grade	Anomaly	Conductance
7	●	>100 siemens
6	●	50-100 siemens
5	●	20-50 siemens
4	●	10-20 siemens
3	●	5-10 siemens
2	●	1-5 siemens
1	●	<1 siemens
-	✱	Questionable anomaly

FLIGHT LINES

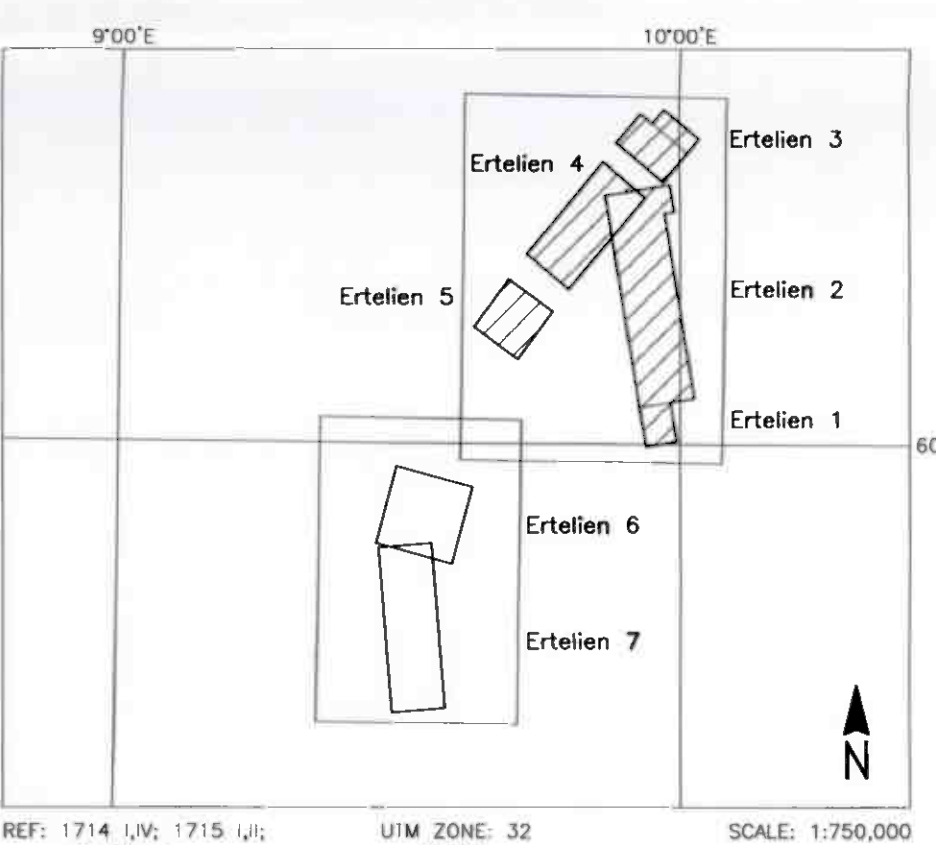


TOTAL MAGNETIC FIELD CONTOURS

.....	250 nT
.....	50 nT
.....	10 nT
.....	5 nT
.....	magnetic low

Magnetic inclination within the survey area: 73 degrees N
Magnetic declination within the survey area: 1 degrees E

LOCATION MAP

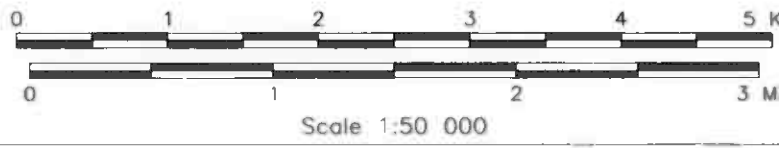


SULFIDMALM A/S ERTELIEN 1-5 AREAS, NORWAY

TOTAL MAGNETIC FIELD Horizontal Gradient Enhanced

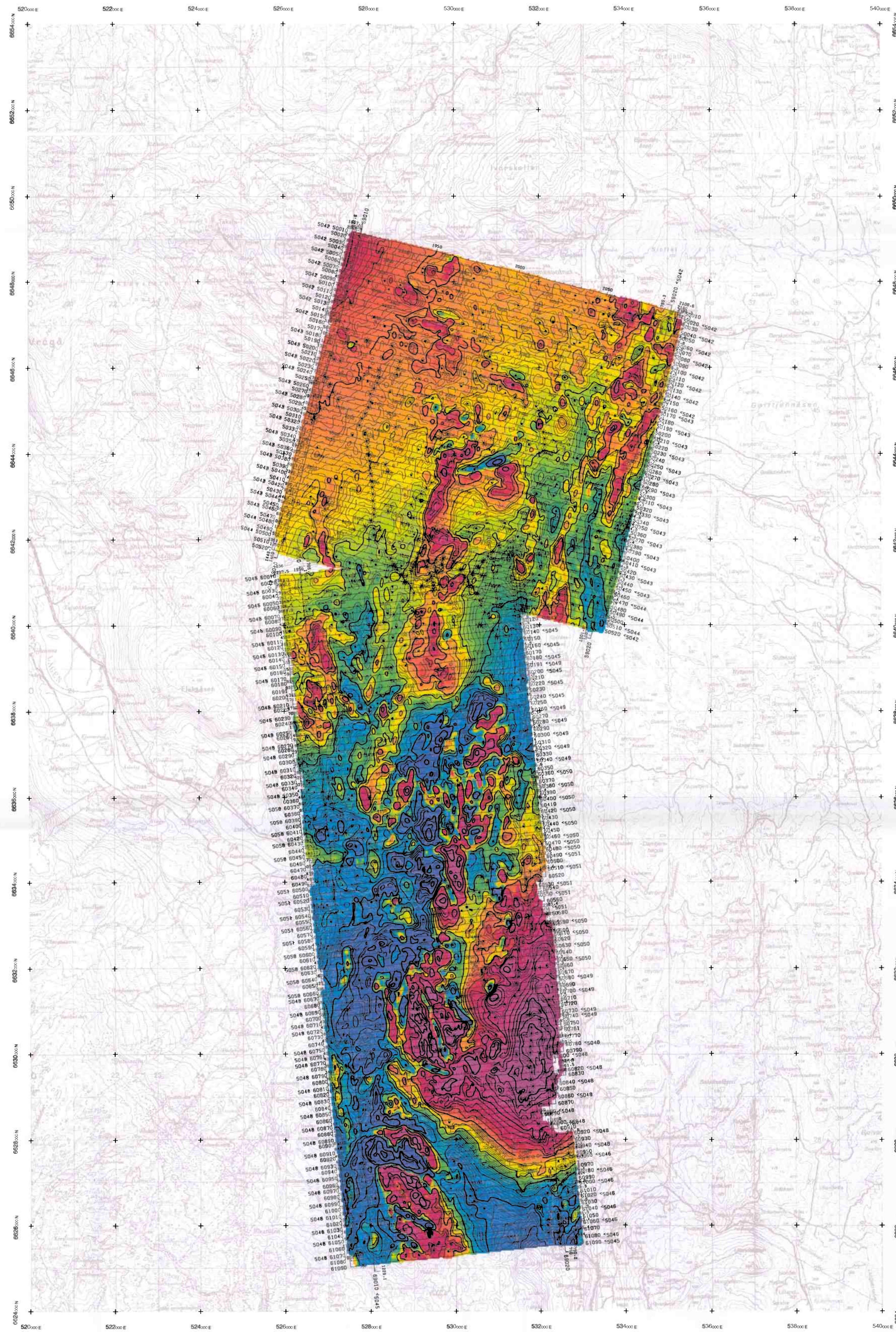
FUGRO DIGHEM SURVEY	REF: 1715 U/L; 1815 H/V	GEOPHYSICIST:
DATE: MAY, 2006	JOB: 06009	SHEET: 1

Fugro Airborne Surveys



FUGRO AIRBORNE SURVEYS

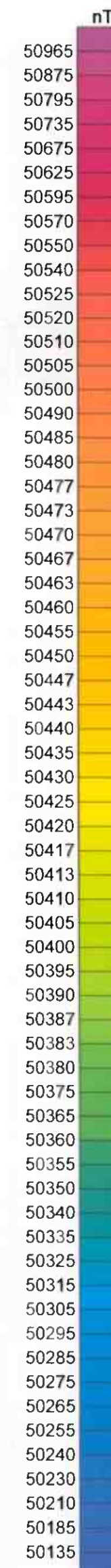




TECHNICAL SUMMARY

Navigation Differentially-corrected GPS
Data reduction grid interval 30 metres
Terrain clearance Helicopter 57 m
Electromagnetic sensor 30 m
Magnetometer 30 m
Data sampling interval 0.1 second
Magnetics system / separation Dual sensor horizontal gradiometer / 5 m
Magnetometer / sensitivity Cesium / 0.01 nT
Electromagnetic system DIGHEM[®]

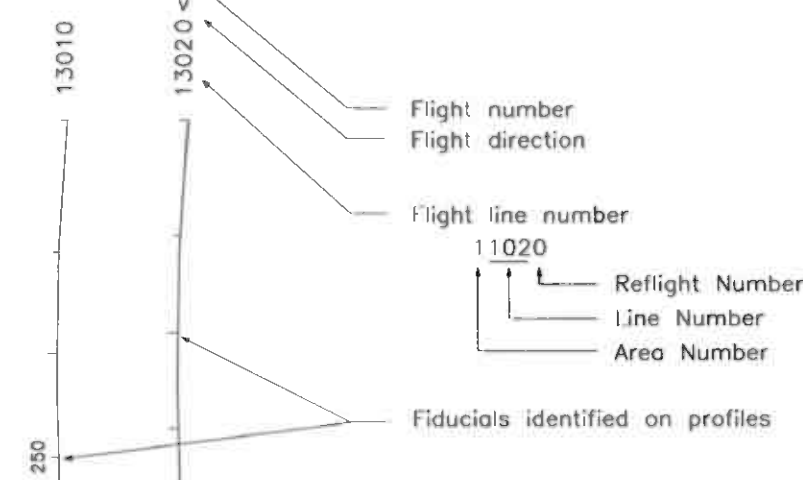
Frequency	Sensitivity	Coil Orientation
1000 Hz	.06 ppm	Vertical coaxial
5500 Hz	.12 ppm	Vertical coaxial
900 Hz	.12 ppm	Horizontal coplanar
7200 Hz	.24 ppm	Horizontal coplanar
56000 Hz	.60 ppm	Horizontal coplanar



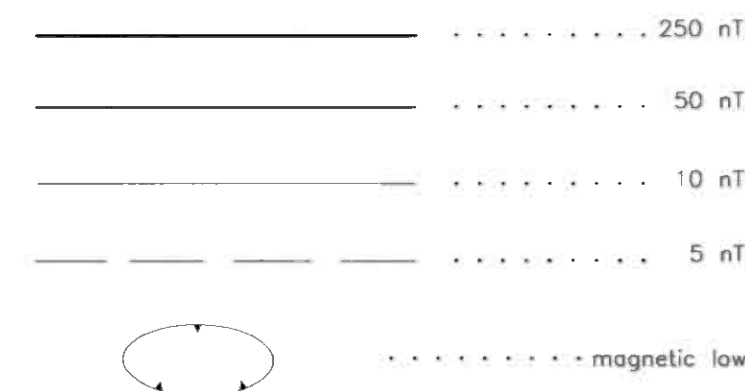
ELECTROMAGNETIC ANOMALIES

Grade	Anomaly	Conductance
7	●	>100 siemens
6	●	50-100 siemens
5	●	20-50 siemens
4	●	10-20 siemens
3	●	5-10 siemens
2	●	1-5 siemens
1	●	<1 siemens
-	✱	Questionable anomaly

FLIGHT LINES

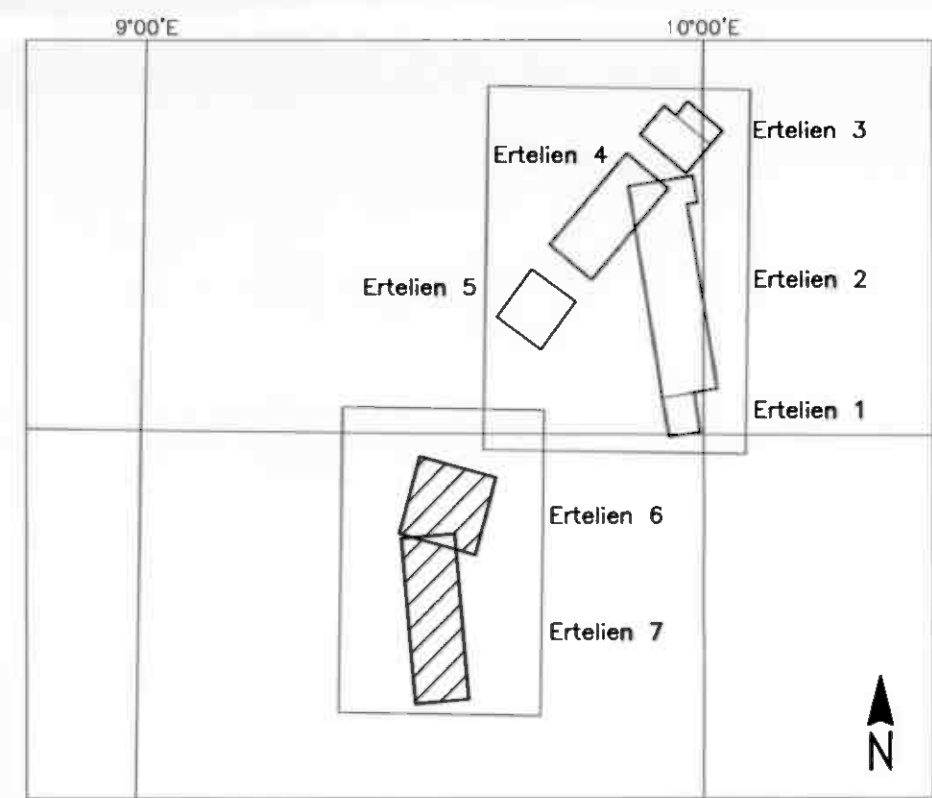


TOTAL MAGNETIC FIELD CONTOURS



Magnetic inclination within the survey area: 73 degrees N
Magnetic declination within the survey area: 1 degrees E

LOCATION MAP



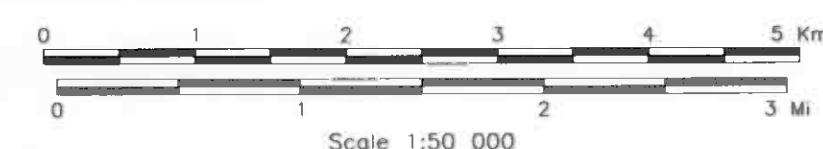
REF: 1714 I/V; 1715 I/V; 1815 I/V
UTM ZONE: 32
WGS84
SCALE: 1:750,000

SULFIDMALM A/S
ERTELIE 6-7 AREAS, NORWAY

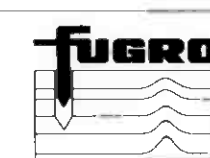
TOTAL MAGNETIC FIELD
Horizontal Gradient Enhanced

FUGRO DIGHEM [®] SURVEY	REF: 1714 I/V	GEOPHYSICIST:
DATE: MAY, 2006	JOB: 06009	SHEET: 1

Fugro Airborne Surveys

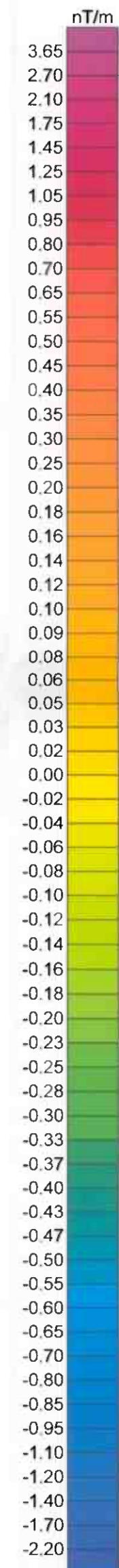


FUGRO AIRBORNE SURVEYS

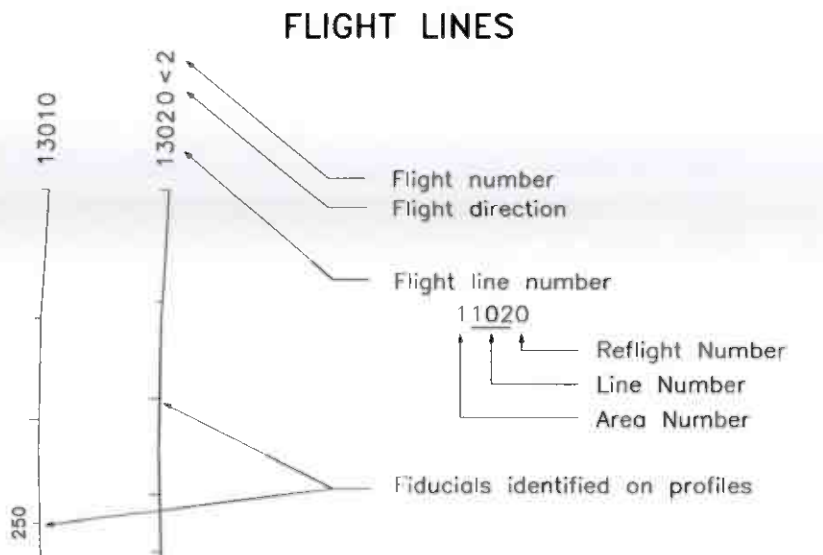




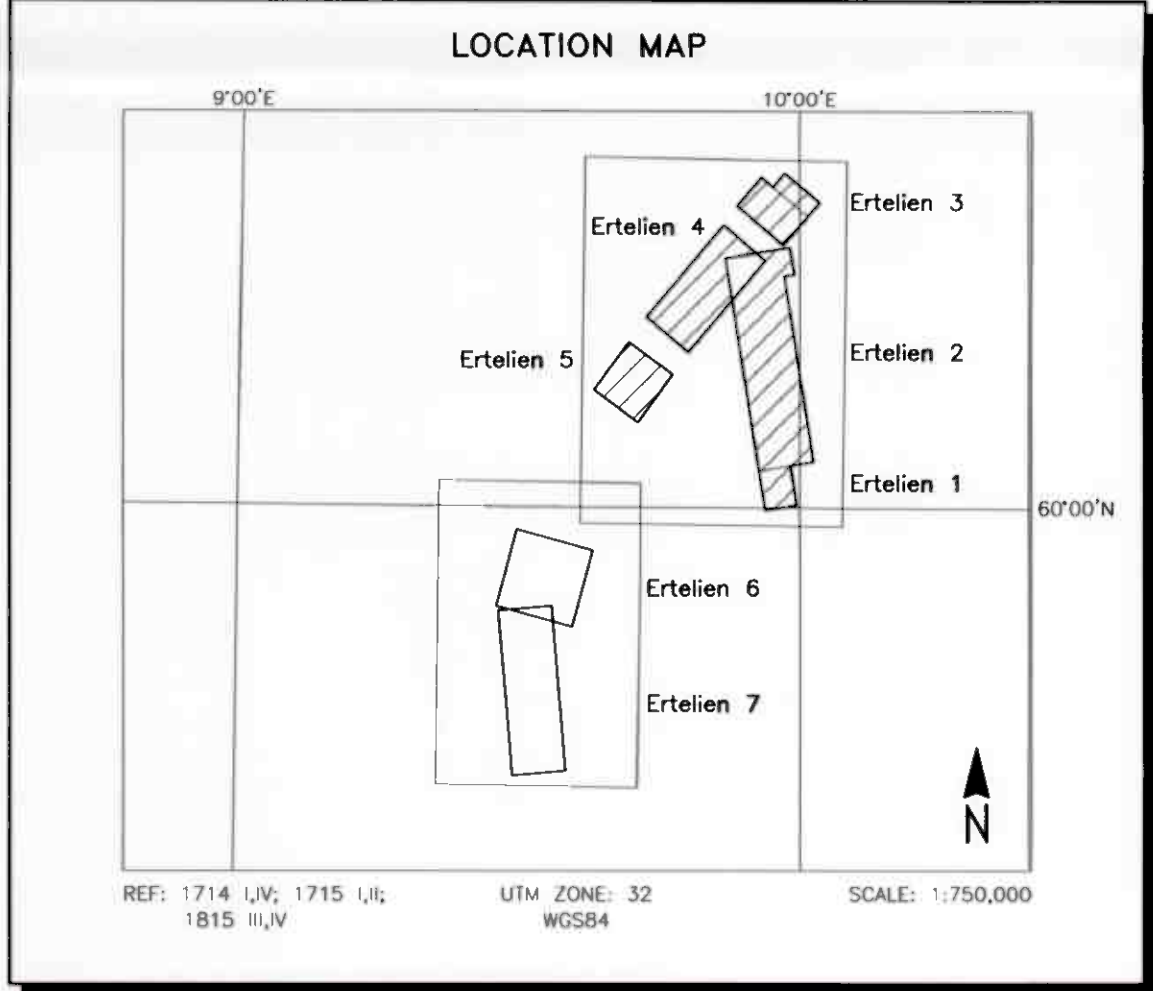
TECHNICAL SUMMARY			
Navigation	Differentially-corrected GPS		
Data reduction grid interval	30 metres		
Terrain clearance	Helicopter 57 m		
	Electromagnetic sensor 30 m		
	Magnetometer 30 m		
Data sampling interval	0.1 second		
Magnetics system / separation	Dual sensor horizontal gradiometer / 5 m		
Magnetometer / sensitivity	Cesium / 0.01 nT		
Electromagnetic system	DIGHEM		
Frequency	Sensitivity	Coil Orientation	
1000 Hz	.06 ppm	Vertical coaxial	
5500 Hz	.12 ppm	Vertical coaxial	
900 Hz	.12 ppm	Horizontal coplanar	
7200 Hz	.24 ppm	Horizontal coplanar	
56000 Hz	.60 ppm	Horizontal coplanar	



ELECTROMAGNETIC ANOMALIES		
Grade	Anomaly	Conductance
7	●	>100 siemens
6	●	50-100 siemens
5	●	20-50 siemens
4	●	10-20 siemens
3	●	5-10 siemens
2	●	1-5 siemens
1	●	<1 siemens
-	✱	Questionable anomaly



CALCULATED VERTICAL GRADIENT CONTOURS	
.....	2.5 nT/metre
.....	0.5 nT/metre
.....	0.1 nT/metre
.....	0.05 nT/metre



SULFIDMALM A/S
ERTELIEN 1-5 AREAS, NORWAY

CALCULATED VERTICAL
MAGNETIC GRADIENT

FUGRO DIGHEM SURVEY

REF: 1715 U/L; 1815 H/V

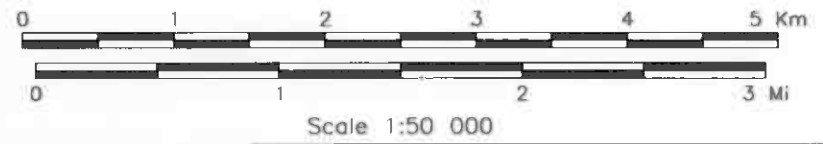
GEOPHYSICIST:

DATE: MAY, 2006

JOB: 06009

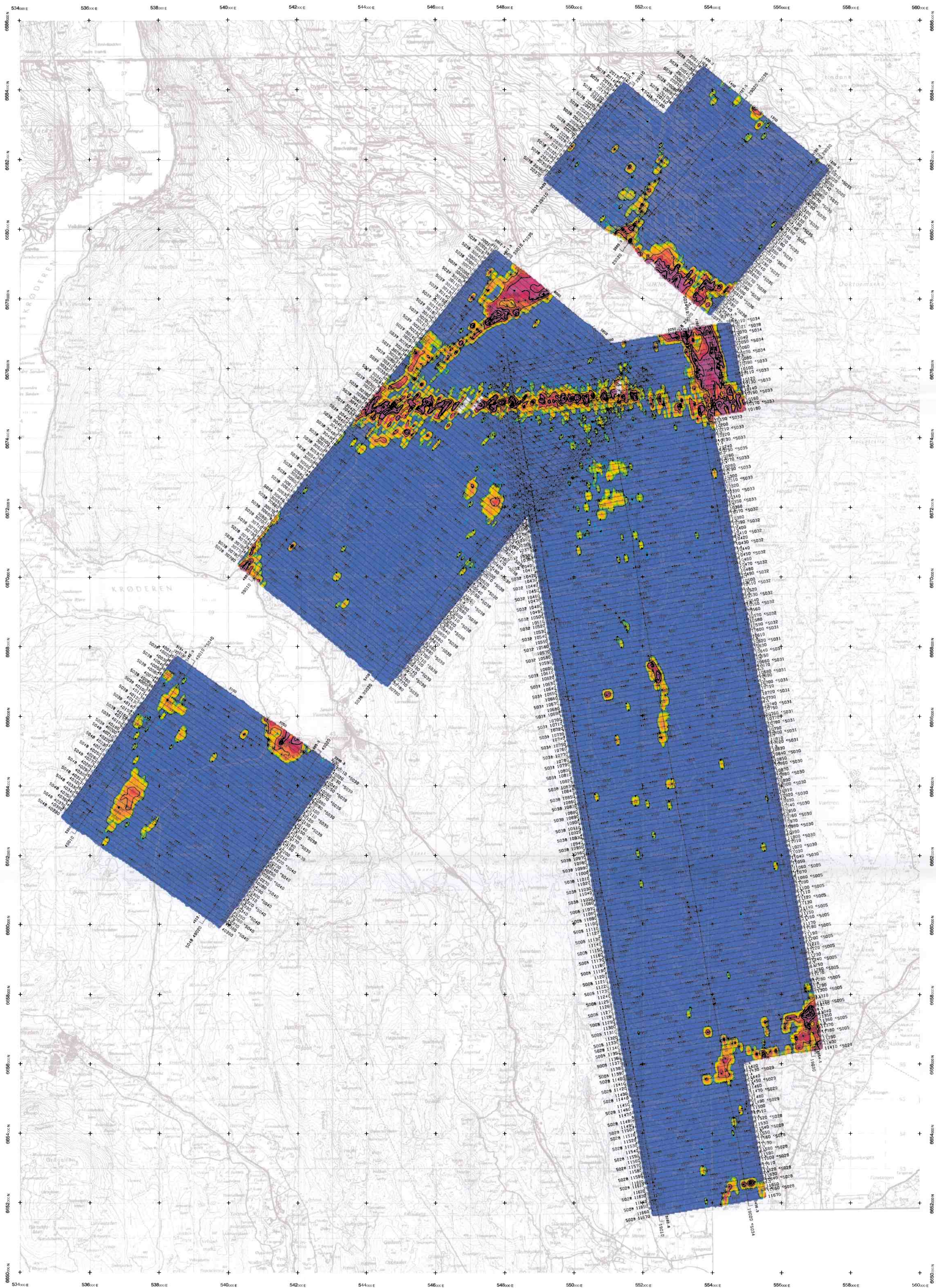
SHEET: 1

Fugro Airborne Surveys



FUGRO AIRBORNE SURVEYS





TECHNICAL SUMMARY

Navigation Differentially-corrected GPS
Data reduction grid interval 30 metres
Terrain clearance Helicopter 57 m
Electromagnetic sensor 30 m
Magnetometer 30 m
Data sampling interval 0.1 second
Magnetics system / separation Dual sensor horizontal gradiometer / 5 m
Magnetometer / sensitivity Cesium / 0.01 nT
Electromagnetic system DIGHEM

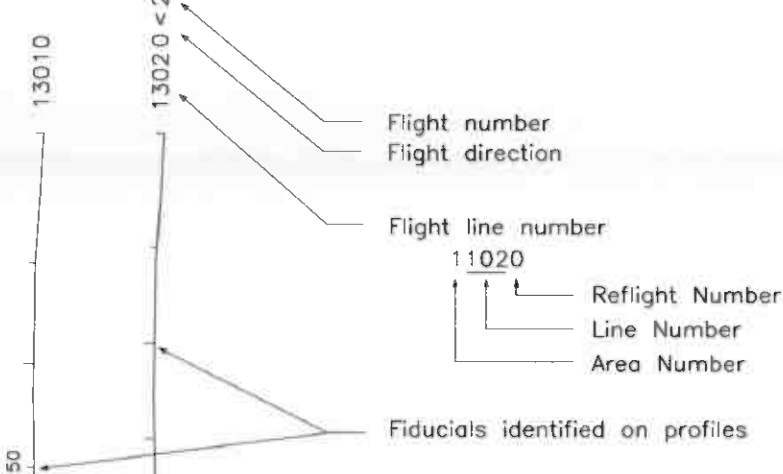
Frequency	Sensitivity	Coil Orientation
1000 Hz	.06 ppm	Vertical coaxial
5500 Hz	.12 ppm	Vertical coaxial
900 Hz	.12 ppm	Horizontal coplanar
7200 Hz	.24 ppm	Horizontal coplanar
56000 Hz	.60 ppm	Horizontal coplanar



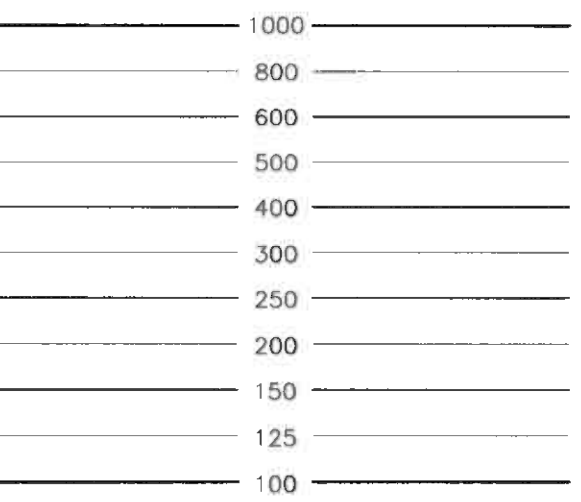
ELECTROMAGNETIC ANOMALIES

Grade	Anomaly	Conductance
7	●	>100 siemens
6	●	50-100 siemens
5	●	20-50 siemens
4	●	10-20 siemens
3	●	5-10 siemens
2	●	1-5 siemens
1	●	<1 siemens
-	×	Questionable anomaly

FLIGHT LINES

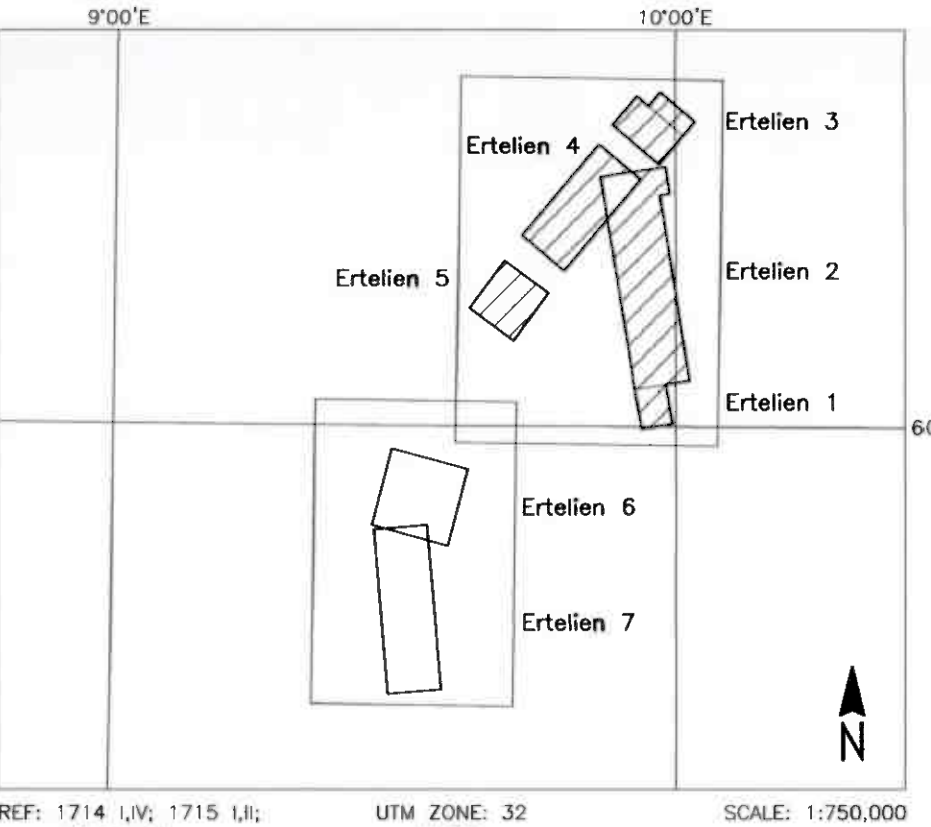


RESISTIVITY CONTOURS



Contours in ohm-m at 10 intervals per decade.
Apparent resistivity calculated using a pseudo-layer half-space model (Fraser 1978).

LOCATION MAP

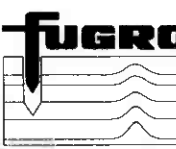
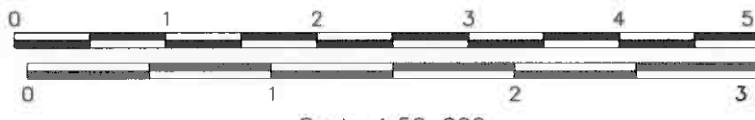


SULFIDMALM A/S ERTELEEN 1-5 AREAS, NORWAY

APPARENT RESISTIVITY 900 Hz COPLANAR

FUGRO DIGHEM SURVEY	REF: 1715 U/I; 1815 II/IV	GEOPHYSICIST:
DATE: MAY, 2006	JOB: 06009	SHEET: 1

Fugro Airborne Surveys



TECHNICAL SUMMARY

Navigation Differentially-corrected GPS
 Data reduction grid interval 30 metres
 Terrain clearance Helicopter 57 m
 Electromagnetic sensor 30 m
 Magnetometer 30 m
 Data sampling interval 0.1 second
 Magnetics system / separation Dual sensor horizontal gradiometer / 5 m
 Magnetometer / sensitivity Cesium / 0.01 nT
 Electromagnetic system DIGHEM

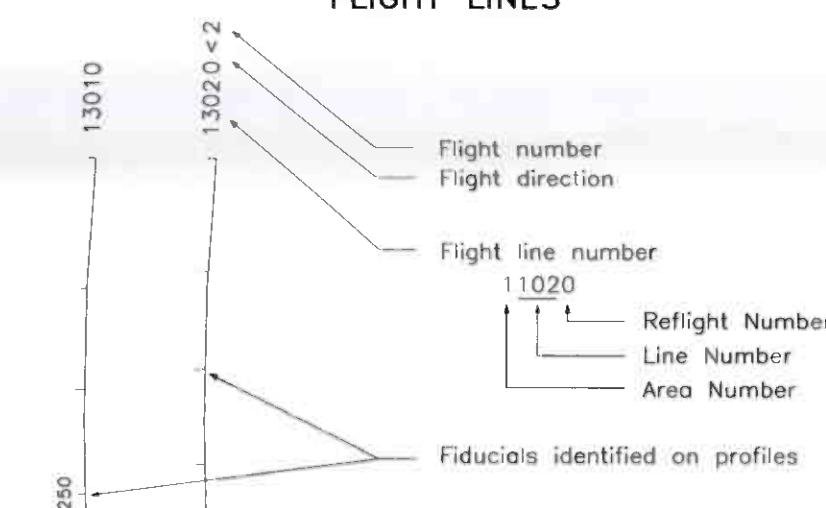
Frequency	Sensitivity	Coil Orientation
1000 Hz	06 ppm	Vertical coaxial
5500 Hz	12 ppm	Vertical coaxial
900 Hz	12 ppm	Horizontal coplanar
7200 Hz	24 ppm	Horizontal coplanar
56000 Hz	60 ppm	Horizontal coplanar



ELECTROMAGNETIC ANOMALIES

Grade	Anomaly	Conductance
7	●	>100 siemens
6	●	50-100 siemens
5	●	20-50 siemens
4	●	10-20 siemens
3	●	5-10 siemens
2	●	1-5 siemens
1	●	<1 siemens
-	✱	Questionable anomaly

FLIGHT LINES

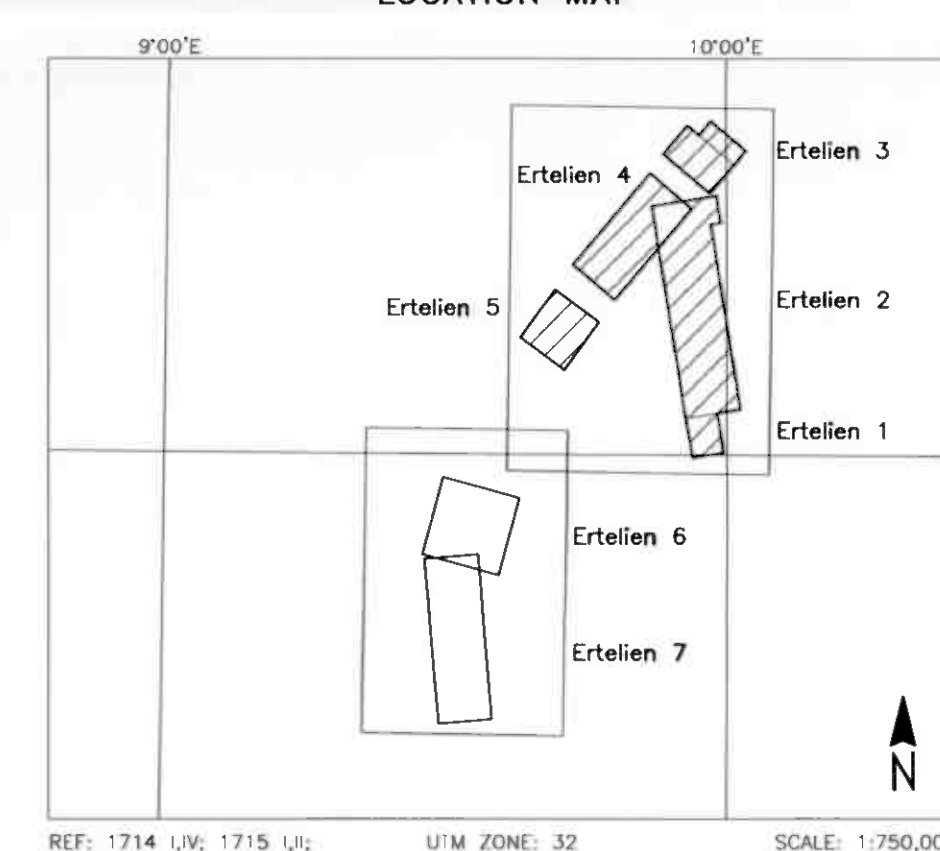


RESISTIVITY CONTOURS

1000
800
600
500
400
300
250
200
150
125
100

Contours in ohm-m at 10 intervals per decade.
 Apparent resistivity calculated using a pseudo-layer half-space model (Fraser 1978).

LOCATION MAP

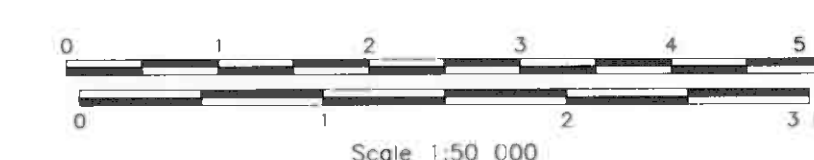


SULFIDMALM A/S
 ERTELIEN 1-5 AREAS, NORWAY

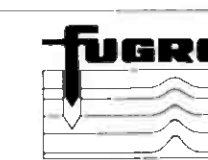
APPARENT RESISTIVITY
 7200 Hz COPLANAR

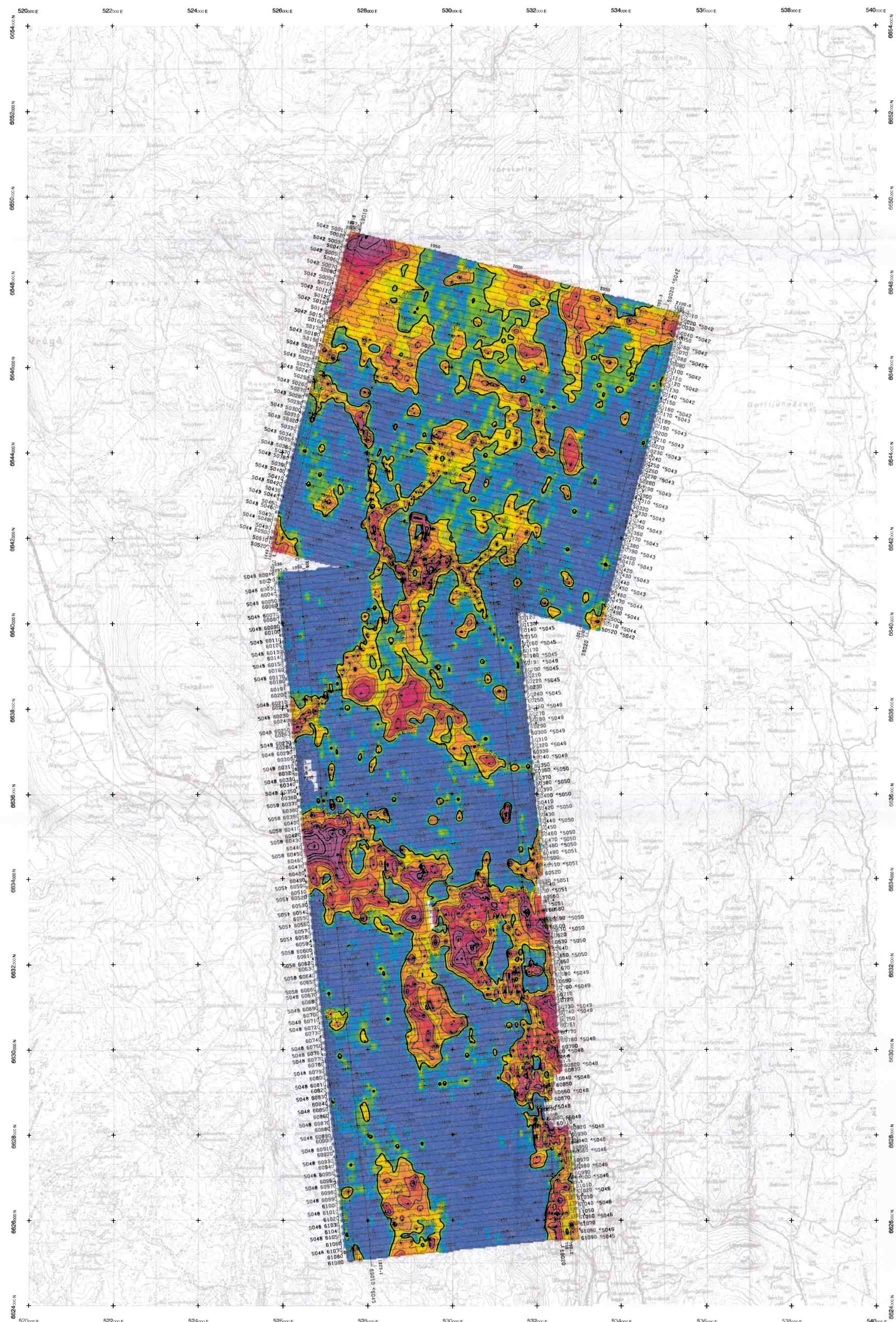
FUGRO DIGHEM SURVEY	REF: 1715 UJ; 1815 IJUV	GEOPHYSICIST:
DATE: MAY, 2006	FUGRO 06009	SHEET: 1

Fugro Airborne Surveys



FUGRO AIRBORNE SURVEYS

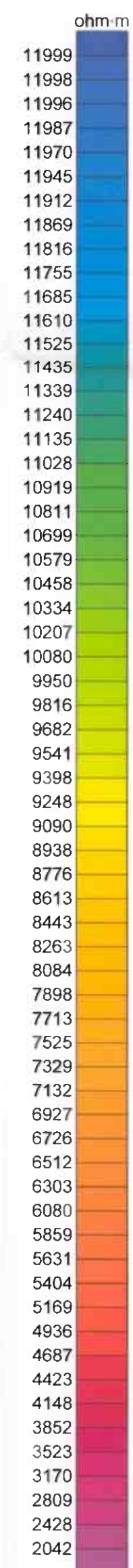




TECHNICAL SUMMARY

Navigation Differentially-corrected GPS
Data reduction grid interval 30 metres
Terrain clearance Helicopter 57 m
Electromagnetic sensor 30 m
Magnetometer 30 m
Data sampling interval 0.1 second
Magnetics system / separation Dual sensor horizontal gradiometer / 5 m
Magnetometer / sensitivity Cesium / 0.01 nT
Electromagnetic system DIGHEM

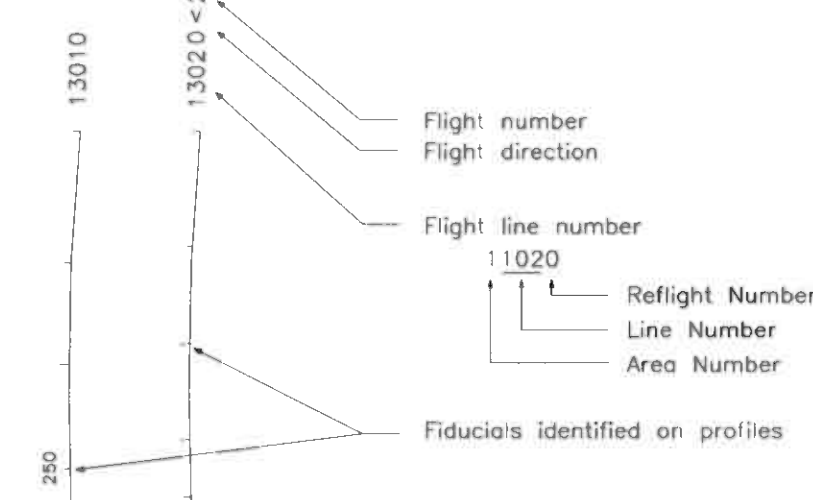
Frequency	Sensitivity	Coil Orientation
1000 Hz	.06 ppm	Vertical coaxial
5500 Hz	.12 ppm	Vertical coaxial
900 Hz	.12 ppm	Horizontal coplanar
7200 Hz	.24 ppm	Horizontal coplanar
56000 Hz	.60 ppm	Horizontal coplanar



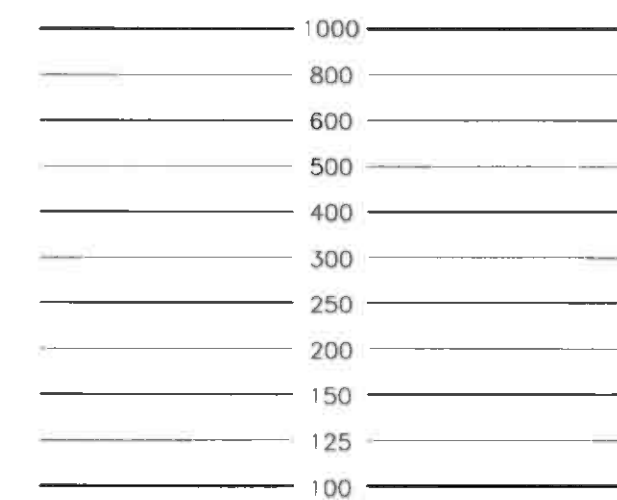
ELECTROMAGNETIC ANOMALIES

Grade	Anomaly	Conductance
7	●	>100 siemens
6	●	50-100 siemens
5	●	20-50 siemens
4	●	10-20 siemens
3	●	5-10 siemens
2	●	1-5 siemens
1	●	<1 siemens
-	×	Questionable anomaly

FLIGHT LINES

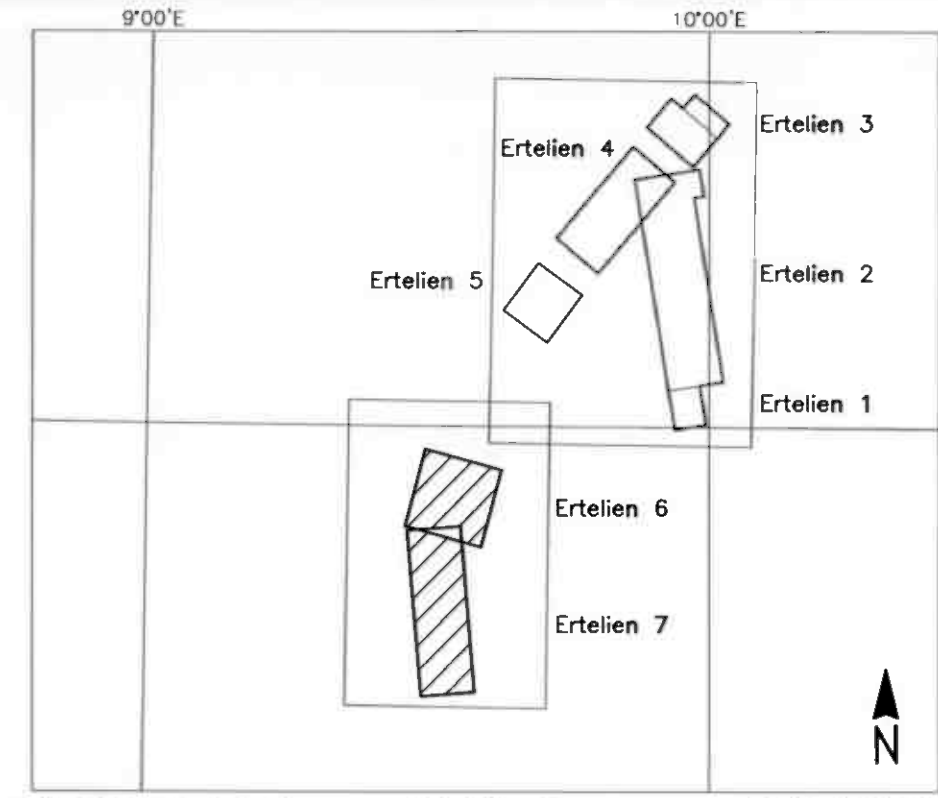


RESISTIVITY CONTOURS



Contours in ohm-m at 10 intervals per decade.
Apparent resistivity calculated using a pseudo-layer half-space model (Fraser 1978).

LOCATION MAP

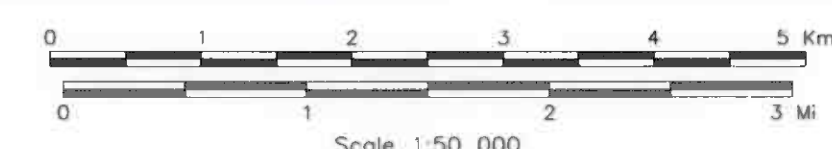


REF: 1714 I/V, 1715 I/V, 1815 I/V, I/V
UTM ZONE: 32
WGS84
SCALE: 1:750,000

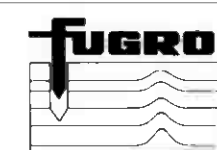
SULFIDMALM A/S
ERTELEN 6-7 AREAS, NORWAY

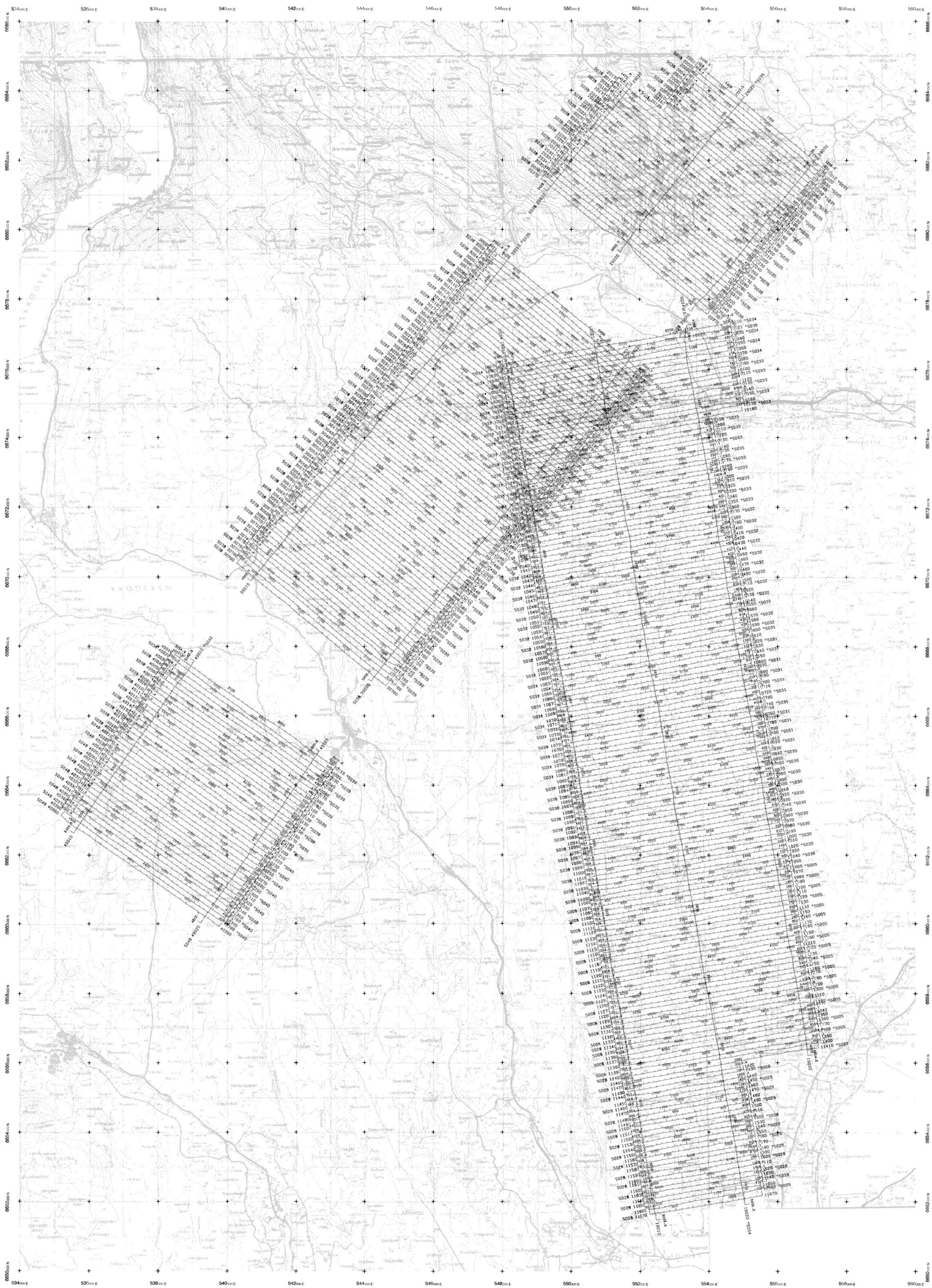
APPARENT RESISTIVITY
7200 Hz COPLANAR

FUGRO DIGHEM* SURVEY	REF: 1714 I/V	GEOPHYSICIST:
DATE: MAY, 2006	JOB: 06009	SHEET: 1
Fugro Airborne Surveys		



FUGRO AIRBORNE SURVEYS





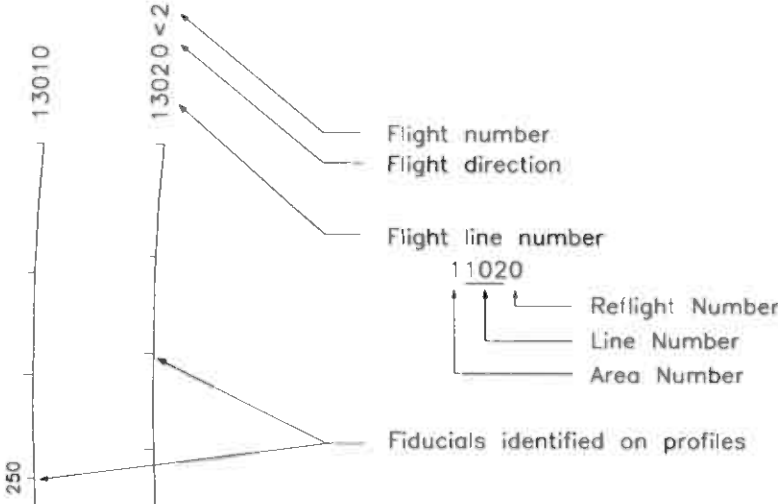
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Magnetometer / sensitivity Cesium / 0.01 nT
Electromagnetic system DIGHEM

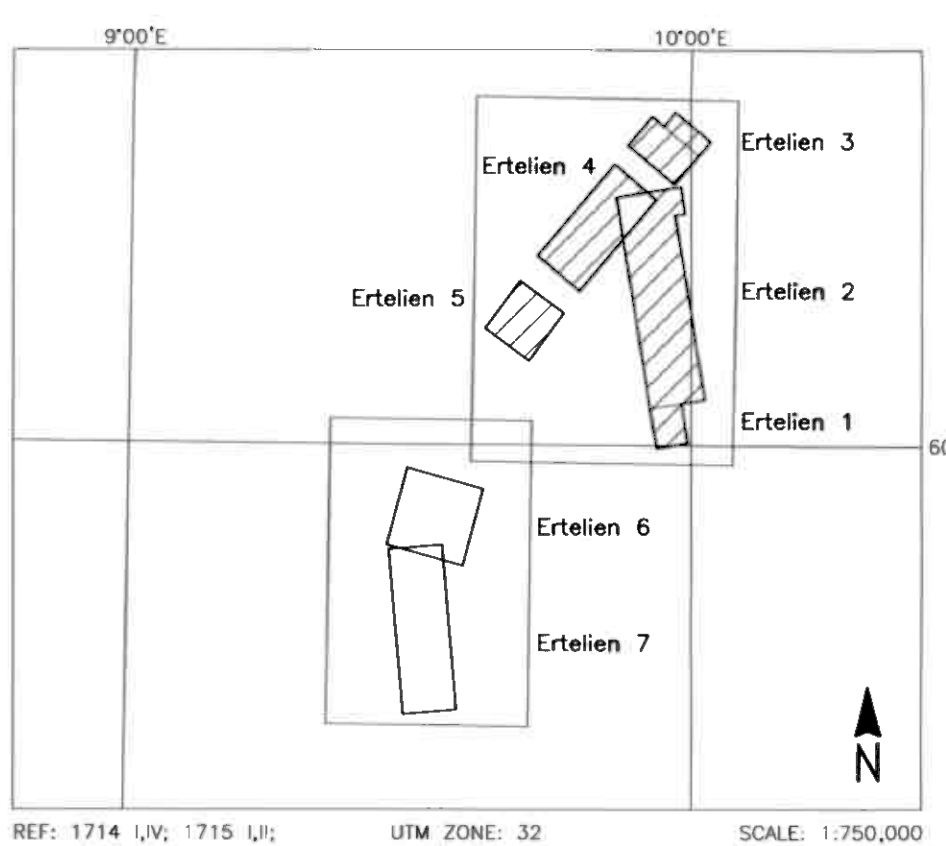


Frequency	Sensitivity	Coil Orientation
1000 Hz	0.6 ppm	Vertical coaxial
5500 Hz	.12 ppm	Vertical coaxial
900 Hz	.12 ppm	Horizontal coplanar
7200 Hz	.24 ppm	Horizontal coplanar
56000 Hz	.60 ppm	Horizontal coplanar

FLIGHT LINES



LOCATION MAP

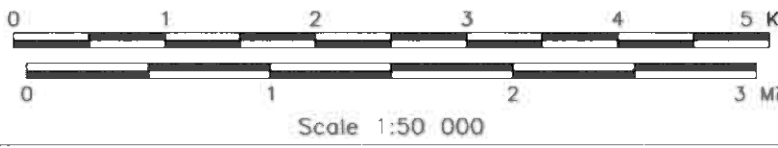


SULFIDMALM A/S ERTELIEN 1-5 AREAS, NORWAY

FLIGHT LINES

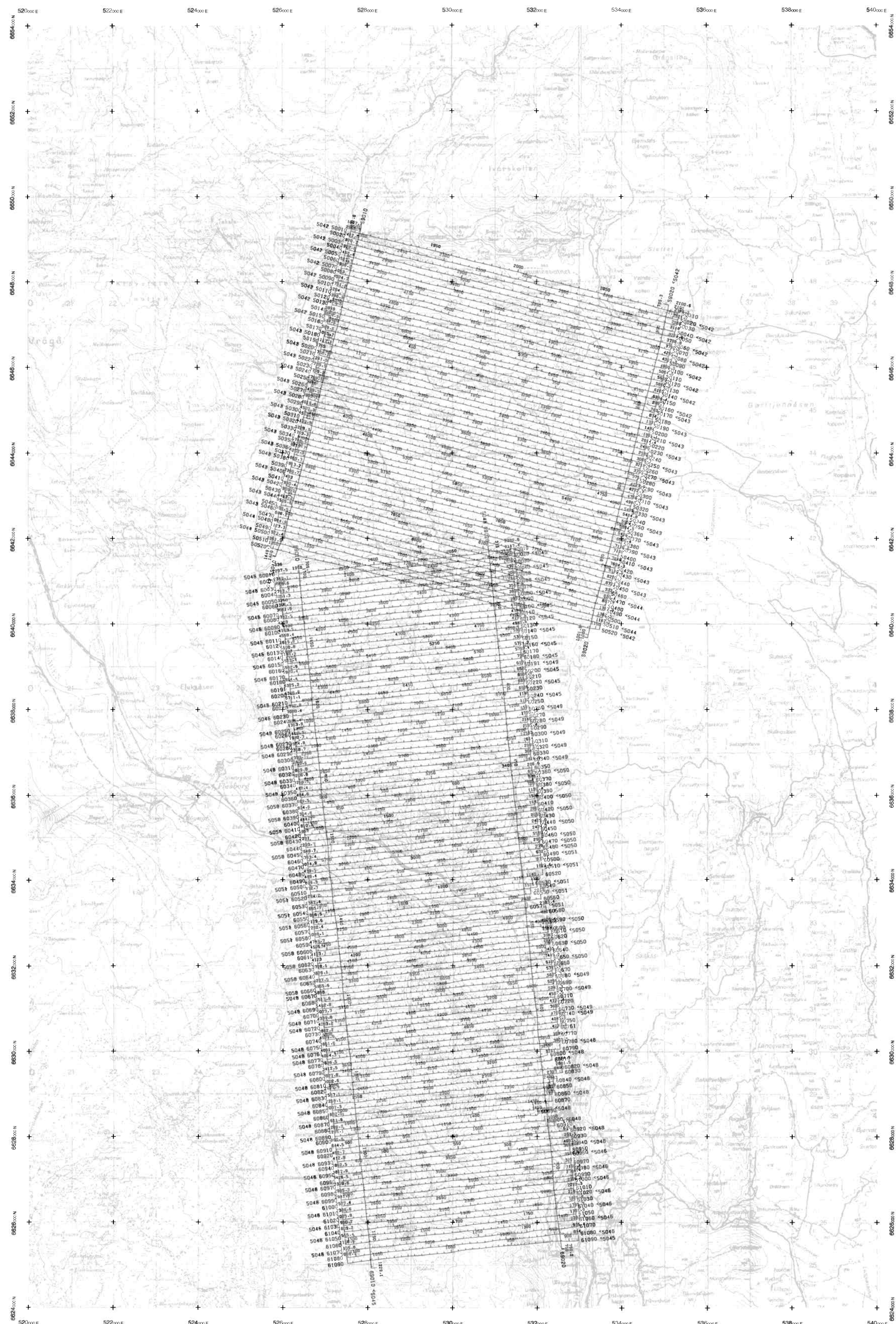
FUGRO DIGHEM SURVEY	REF: 1715 UJ; 1815 IJ/V	GEOPHYSICST:
DATE: MAY, 2006	JOB: 06009	SHEET: 1

Fugro Airborne Surveys



FUGRO AIRBORNE SURVEYS





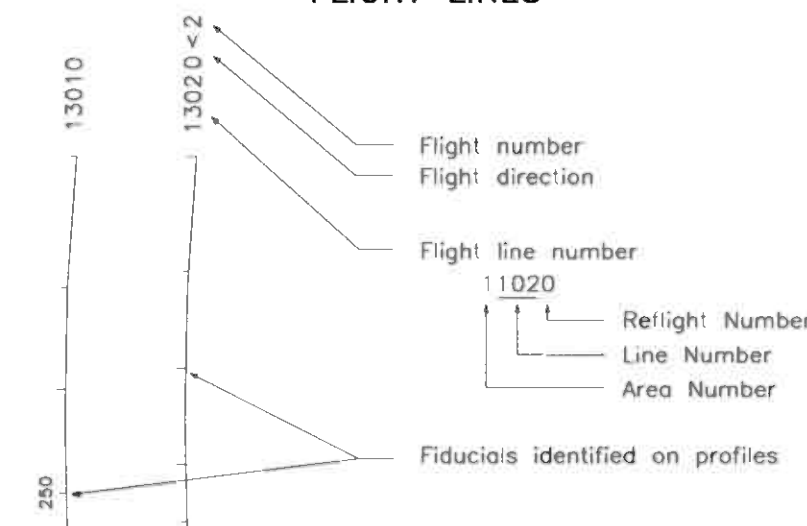
TECHNICAL SUMMARY

Navigation Differentially-corrected GPS
Data reduction grid interval 30 metres
Terrain clearance Helicopter 57 m
Electromagnetic sensor 30 m
Magnetometer 30 m
Data sampling interval 0.1 second
Magnetics system / separation Dual sensor horizontal gradiometer / 5 m
Magnetometer / sensitivity Cesium / 0.01 nT
Electromagnetic system DIGHEM*

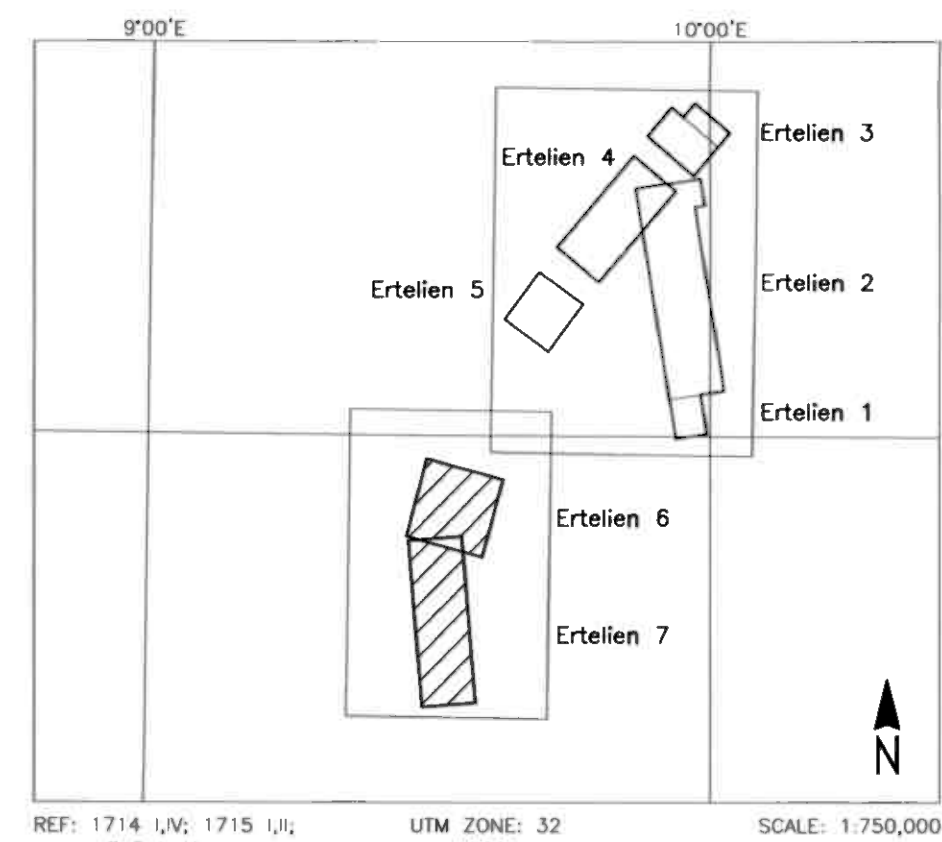


Frequency	Sensitivity	Coil Orientation
1000 Hz	.06 ppm	Vertical coaxial
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900 Hz	.12 ppm	Horizontal coplanar
7200 Hz	.24 ppm	Horizontal coplanar
56000 Hz	.60 ppm	Horizontal coplanar

FLIGHT LINES



LOCATION MAP



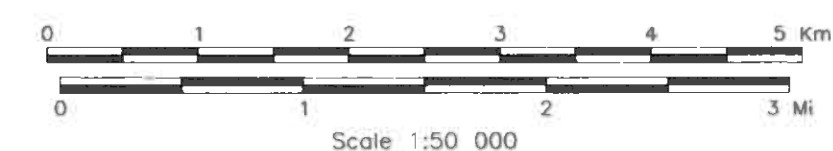
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SULFIDMALM A/S ERTELEN 6-7 AREAS, NORWAY

FLIGHT LINES

FUGRO DIGHEM* SURVEY	REF: 1714 IJV	GEOPHYSICIST:
DATE: MAY, 2006	JOB: 06009	SHEET: 1

Fugro Airborne Surveys



FUGRO AIRBORNE SURVEYS

