374000 E | 376000 E | 378000 E | 380000 E | 382000 E | 384000 E | 386000 E | 388000 E

6296000 N | 6294000 N | 6292000 N | 6290000 N | 6288000 N | 6286000 N | 6284000 N | 6282000 N

BC Geological Survey
Assessment Report
30282i

TECHNICAL SUMMARY

Navigation	Differentially–corrected GPS
Data reduction grid interval	38 metres
Terrain clearance	Helicopter, Spectrometer 57 m Electromagnetic sensor 30 m Magnetometer 30 m
Data sampling interval	0.1 second
Magnetometer / sensitivity	Cesium / 0.01 nT
Electromagnetic system	DIGHEM*
Spectrometer	GR820

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

N

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 (e.g. C|H) → Depth is greater than: . 15 m, : 30 m, ⁝ 45 m, ⋮ 60 m

Inphase and Quadrature of coaxial coil is greater than: . 5 ppm, .. 10 ppm, ... 15 ppm, ... 20 ppm

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

TC (cps)

807 733 683 645 616 592 571 553 536 522 508 495 483 471 460 449 439 430 421 411 403 395 387 379 370 363 355 348 341 334 327 320 314 307 301 295 289 283 277 271 266 260 254 249 243 237 231 225 219 213 207 201 194 187 180 172 164 155 146 136 126 112 96

FLIGHT LINES WITH EM ANOMALIES

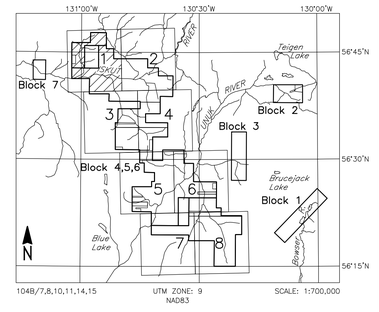
13010 | 13020 < 2 | 125 | 11020 | F | B | 100

- Flight number
- Flight direction
- Flight line number
- Reflight 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)

CONTOUR INTERVALS

- ——— . . . . . 500 cps
- ——— . . . . . 100 cps
- ——— . . . . . 20 cps
- — — — — . . . . . 10 cps
- ⬭ . . . . . low

LOCATION MAP



HATHOR EXPLORATION LIMITED
ESKAY AREA BLOCKS 4–6, B.C.

RADIOMETRIC TOTAL COUNT

FUGRO DIGHEM*/RAD SURVEY	NTS: 104B/7,8,10,11,14,15	GEOPHYSICIST:
DATE: DECEMBER, 2007	JOB: 06041	SHEET: 1
Fugro Airborne Surveys		

0 1 2 Km
0 1 Mi
Scale 1:20 000

FUGRO AIRBORNE SURVEYS

406000 E 408000 E 410000 E 412000 E 414000 E 416000 E 418000 E 420000 E

6248000 N 6246000 N 6244000 N 6242000 N 6240000 N 6238000 N 6236000 N 6234000 N

TECHNICAL SUMMARY

Navigation	Differentially–corrected GPS
Data reduction grid interval	30 metres
Terrain clearance	Helicopter, Spectrometer 57 m Electromagnetic sensor 30 m Magnetometer 30 m
Data sampling interval	0.1 second
Magnetometer / sensitivity	Cesium / 0.01 nT
Electromagnetic system	DIGHEM*
Spectrometer	GR820

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 — Inphase and Quadrature of coaxial coil is greater than

Depth is greater than
- 15 m
- 30 m
- 45 m
- 60 m

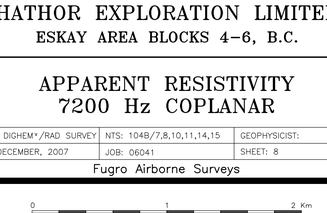
Interpretive symbol	Conductor ("model")
B	Bedrock conductor
D	Narrow bedrock conductor ("thin dike")
S	Conductive cover ("horizontal thin sheet")
H	Broad conductive rock unit, deep conductive weathering, thick conductive cover ("half space")
E	Edge of broad conductor ("edge of half space")
L	Culture,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

5 ppm
10 ppm
15 ppm
20 ppm

ohm-m

8101
8100
8058
7906
7662
7342
6911
6369
5701
4894
4000
3086
2293
1690
1228
867
609
409
238

FLIGHT LINES WITH EM ANOMALIES

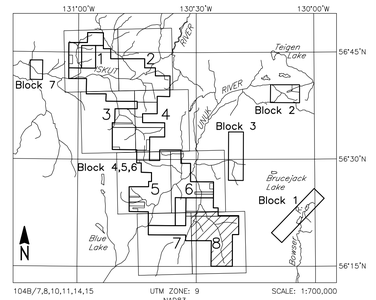


RESISTIVITY CONTOURS

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



HATHOR EXPLORATION LIMITED
ESKAY AREA BLOCKS 4–6, B.C.

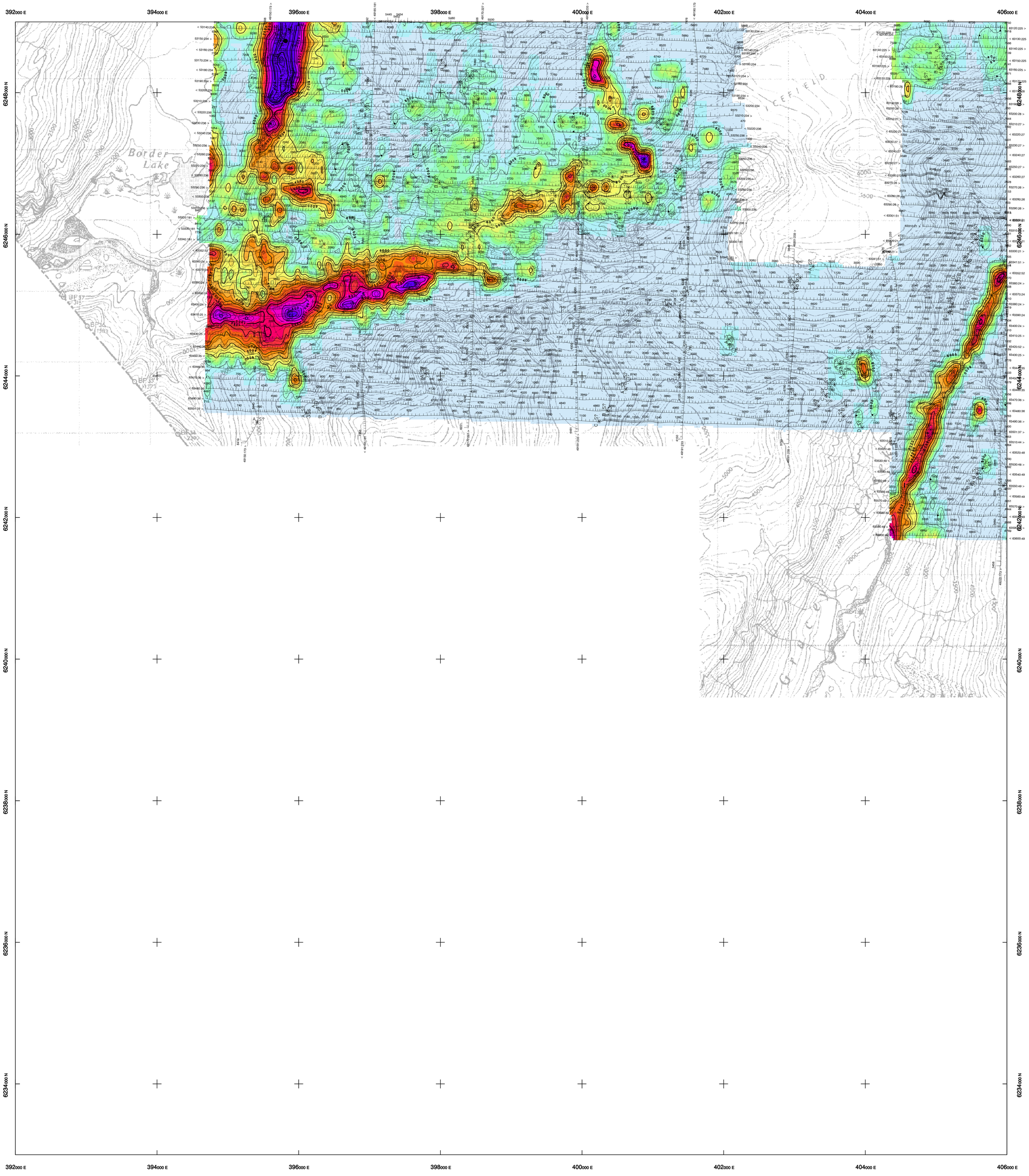
APPARENT RESISTIVITY
7200 Hz COPLANAR

FUGRO DIGHEM*/RAD SURVEY	NTS: 104B/7,8,10,11,14,15	GEOPHYSICIST:
DATE: DECEMBER, 2007	JOB: 06041	SHEET: 8

Fugro Airborne Surveys

0 1 2 Km
0 1 Mi
Scale 1:20 000

FUGRO AIRBORNE SURVEYS



TECHNICAL SUMMARY

Navigation . . . . . Differentially-corrected GPS
Data reduction grid interval . . . . 30 metres
Terrain clearance . . . . . Helicopter, Spectrometer 57 m
Electromagnetic sensor 30 m
Magnetometer 30 m
Data sampling interval . . . . . 0.1 second
Magnetometer / sensitivity . . . . . Cesium / 0.01 nT
Electromagnetic system . . . . . DIGHEM*
Spectrometer GR820

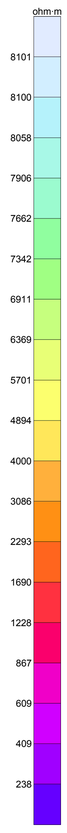
Frequency	Sensitivity	Coil Orientation
1000 Hz	.06 ppm	Vertical coaxial
5500 Hz	.12 ppm	Vertical coaxial
900 Hz	.12 ppm	Horizontal coplanar
7200 Hz	.24 ppm	Horizontal coplanar
56000 Hz	.60 ppm	Horizontal coplanar

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 — Depth is greater than: 15 m, 30 m, 45 m, 60 m — Inphase and Quadrature of coaxial coil is greater than: 5 ppm, 10 ppm, 15 ppm, 20 ppm

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

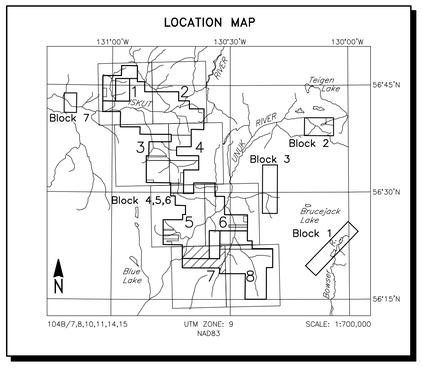
Flight number
Flight direction
Flight line number
11020
Reflight Number
Line Number
Area Number
Fiducials identified on profiles
Dip direction
EM anomaly (see EM legend)
Conductor axis (on EM maps only)
Arcs indicate the conductor has a thickness > 10m
Magnetic correlation in nT (gammas)

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



HATHOR EXPLORATION LIMITED
ESKAY AREA BLOCKS 4–6, B.C.

APPARENT RESISTIVITY
7200 Hz COPLANAR

FUGRO DIGHEM*/RAD SURVEY	NTS: 104B/7,8,10,11,14,15	GEOPHYSICIST:
DATE: DECEMBER, 2007	JOB: 06041	SHEET: 7

Fugro Airborne Surveys

0 1 2 Km
0 1 Mi
Scale 1:20 000

FUGRO AIRBORNE SURVEYS

TECHNICAL SUMMARY

Navigation	Differentially–corrected GPS
Data reduction grid interval	30 metres
Terrain clearance	Helicopter, Spectrometer 57 m Electromagnetic sensor 30 m Magnetometer 30 m
Data sampling interval	0.1 second
Magnetometer / sensitivity	Cesium / 0.01 nT
Electromagnetic system	DIGHEM*
Spectrometer	GR820

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; Depth is greater than · 15 m : 30 m ⋮ 45 m ⋮ 60 m; Inphase and Quadrature of coaxial coil is greater than . 5 ppm .. 10 ppm ... 15 ppm .... 20 ppm

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

ohm·m

8101
8100
8058
7906
7662
7342
6911
6369
5701
4894
4000
3086
2293
1690
1228
867
609
409
238

RESISTIVITY CONTOURS

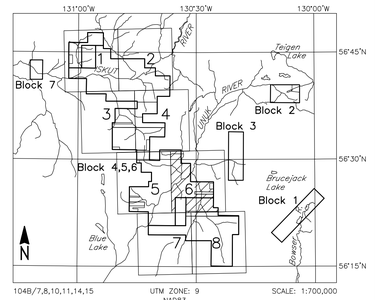
1000
800
600
500
400
300
250
200
150
125
100

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

FLIGHT LINES WITH EM ANOMALIES

Flight number
Flight direction
Flight line number
11020
Reflight 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



104B/7,8,10,11,14,15 UTM ZONE: 9 NAD83 SCALE: 1:700,000

HATHOR EXPLORATION LIMITED
ESKAY AREA BLOCKS 4–6, B.C.

APPARENT RESISTIVITY
7200 Hz COPLANAR

FUGRO DIGHEM*/RAD SURVEY	NTS: 104B/7,8,10,11,14,15	GEOPHYSICIST:
DATE: DECEMBER, 2007	JOB: 06041	SHEET: 6

Fugro Airborne Surveys

0 1 2 Km
0 1 Mi
Scale 1:20 000

FUGRO AIRBORNE SURVEYS

388000 E | 390000 E | 392000 E | 394000 E | 396000 E | 398000 E | 400000 E

6264000 N | 6262000 N | 6260000 N | 6258000 N | 6256000 N | 6254000 N | 6252000 N | 6250000 N

BOUNDARY RANGE

COAST MOUNTAINS MINERAL BELT

ICEFIELD

Glacier

TECHNICAL SUMMARY

Navigation	Differentially–corrected GPS
Data reduction grid interval	30 metres
Terrain clearance	Helicopter, Spectrometer 57 m Electromagnetic sensor 30 m Magnetometer 30 m
Data sampling interval	0.1 second
Magnetometer / sensitivity	Cesium / 0.01 nT
Electromagnetic system	DIGHEM*
Spectrometer	GR820

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; Depth is greater than: 15 m, 30 m, 45 m, 60 m; Inphase and Quadrature of coaxial coil is greater than: 5 ppm, 10 ppm, 15 ppm, 20 ppm

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

ohm·m

8101
8100
8058
7906
7662
7342
6911
6369
5701
4894
4000
3086
2293
1690
1228
867
609
409
238

FLIGHT LINES WITH EM ANOMALIES

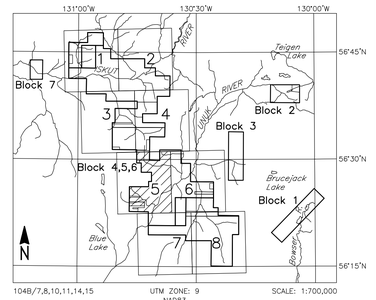
Flight number; Flight direction; Flight line number (13020 < 2; 13010; 125; 11020); Reflight Number; Line Number; Area Number; Fiducials identified on profiles; Dip direction; EM anomaly (see EM legend); Conductor axis (on EM maps only); Arcs indicate the conductor has a thickness > 10m; Magnetic correlation in nT (gammas)

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



104B/7,8,10,11,14,15 | UTM ZONE: 9 NAD83 | SCALE: 1:700,000

HATHOR EXPLORATION LIMITED

ESKAY AREA BLOCKS 4–6, B.C.

APPARENT RESISTIVITY 7200 Hz COPLANAR

FUGRO DIGHEM*/RAD SURVEY	NTS: 104B/7,8,10,11,14,15	GEOPHYSICIST:
DATE: DECEMBER, 2007	JOB: 06041	SHEET: 5

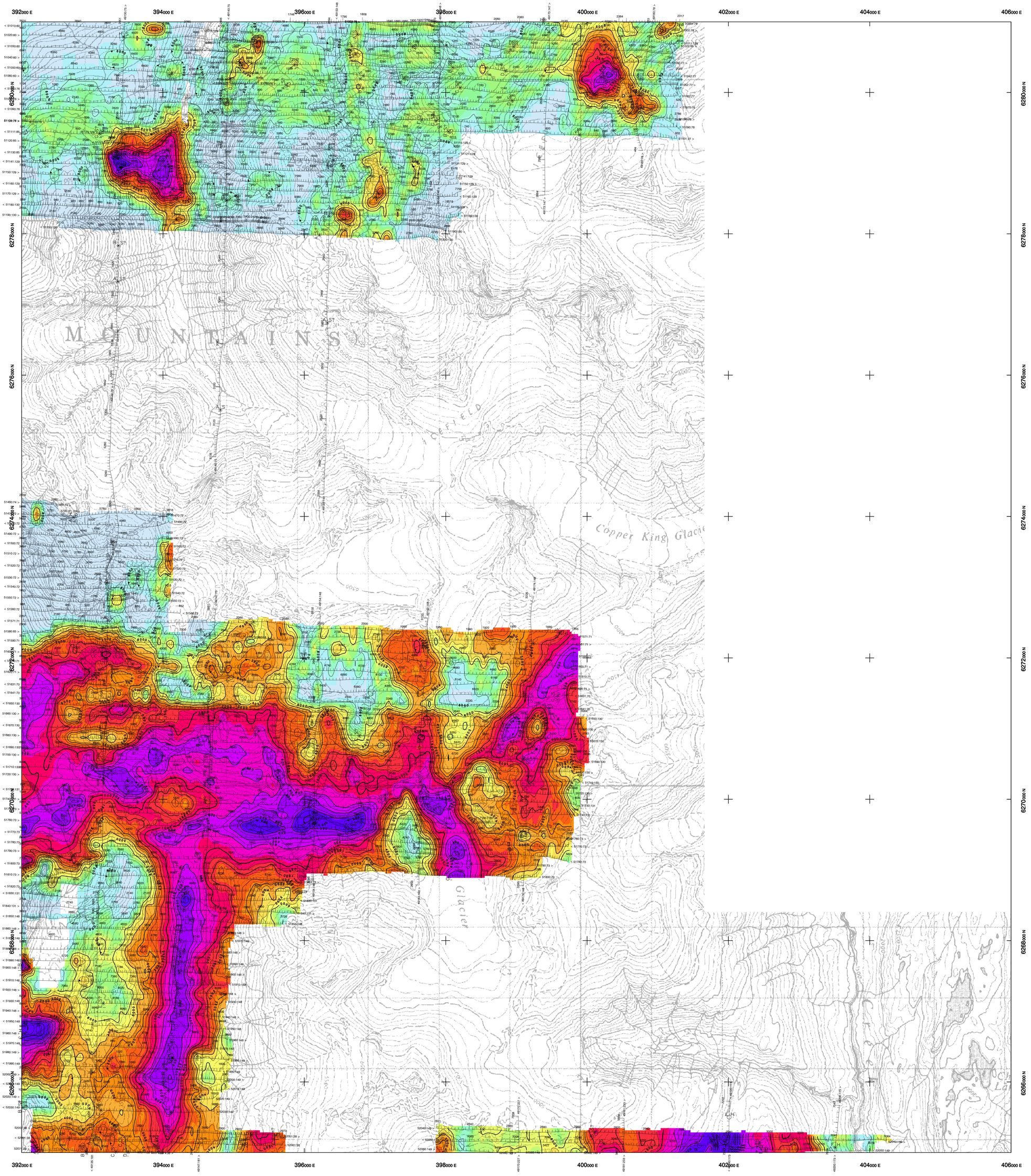
Fugro Airborne Surveys

0 1 2 Km

0 1 Mi

Scale 1:20 000

FUGRO AIRBORNE SURVEYS



TECHNICAL SUMMARY

Navigation . . . . . Differentially-corrected GPS
Data reduction grid interval . . . . 30 metres
Terrain clearance . . . . . Helicopter, Spectrometer 57 m
Electromagnetic sensor 30 m
Magnetometer 30 m
Data sampling interval . . . . . 0.1 second
Magnetometer / sensitivity . . . . . Cesium / 0.01 nT
Electromagnetic system . . . . . DIGHEM^{V}
Spectrometer GR820

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

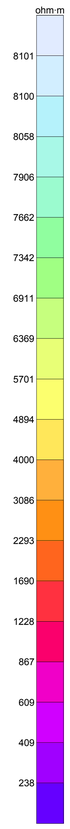
ELECTROMAGNETIC ANOMALIES

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

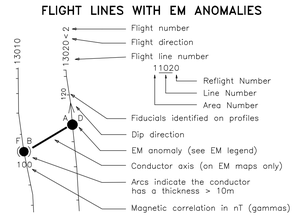
Anomaly identifier — Interpretive symbol — Depth is greater than
· 15 m
: 30 m
⁞ 45 m
⁞ 60 m

Inphase and Quadrature of coaxial coil is greater than
. 5 ppm
.. 10 ppm
... 15 ppm
.... 20 ppm

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

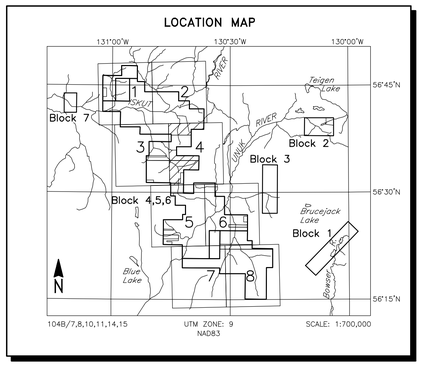


RESISTIVITY CONTOURS

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



HATHOR EXPLORATION LIMITED
ESKAY AREA BLOCKS 4–6, B.C.

APPARENT RESISTIVITY
7200 Hz COPLANAR

FUGRO DIGHEM^{V}/RAD SURVEY	NTS: 104B/7,8,10,11,14,15	GEOPHYSICIST:
DATE: DECEMBER, 2007	JOB: 06041	SHEET: 4

Fugro Airborne Surveys

0 1 2 Km
0 1 Mi
Scale 1:20 000

FUGRO AIRBORNE SURVEYS

TECHNICAL SUMMARY

Navigation	Differentially–corrected GPS
Data reduction grid interval	30 metres
Terrain clearance	Helicopter, Spectrometer 57 m Electromagnetic sensor 30 m Magnetometer 30 m
Data sampling interval	0.1 second
Magnetometer / sensitivity	Cesium / 0.01 nT
Electromagnetic system	DIGHEM^V
Spectrometer	GR820

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

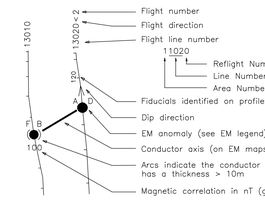
ELECTROMAGNETIC ANOMALIES

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; Inphase and Quadrature of coaxial coil is greater than 5 ppm / 10 ppm / 15 ppm / 20 ppm; Depth is greater than 15 m / 30 m / 45 m / 60 m

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



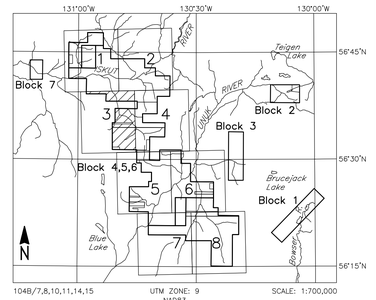
RESISTIVITY CONTOURS

ohm-m: 8101, 8100, 8058, 7906, 7662, 7342, 6911, 6369, 5701, 4894, 4000, 3086, 2293, 1690, 1228, 867, 609, 409, 238

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



HATHOR EXPLORATION LIMITED
ESKAY AREA BLOCKS 4–6, B.C.

APPARENT RESISTIVITY
7200 Hz COPLANAR

FUGRO DIGHEM^V/RAD SURVEY	NTS: 104B/7,8,10,11,14,15	GEOPHYSICIST:
DATE: DECEMBER, 2007	JOB: 06041	SHEET: 3
Fugro Airborne Surveys		

0 1 2 Km
0 1 Mi
Scale 1:20 000

FUGRO AIRBORNE SURVEYS

388000 E 390000 E 392000 E 394000 E 396000 E 398000 E 400000 E 402000 E

6296000 N 6294000 N 6292000 N 6290000 N 6288000 N 6286000 N 6284000 N 6282000 N

TECHNICAL SUMMARY

Navigation	Differentially–corrected GPS
Data reduction grid interval	30 metres
Terrain clearance	Helicopter, Spectrometer 57 m Electromagnetic sensor 30 m Magnetometer 30 m
Data sampling interval	0.1 second
Magnetometer / sensitivity	Cesium / 0.01 nT
Electromagnetic system	DIGHEM*
Spectrometer	GR820

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; Inphase and Quadrature of coaxial coil is greater than 5 ppm, 10 ppm, 15 ppm, 20 ppm; Depth is greater than 15 m, 30 m, 45 m, 60 m

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

ohm·m

8101
8100
8058
7906
7662
7342
6911
6369
5701
4894
4000
3086
2293
1690
1228
867
609
409
238

FLIGHT LINES WITH EM ANOMALIES

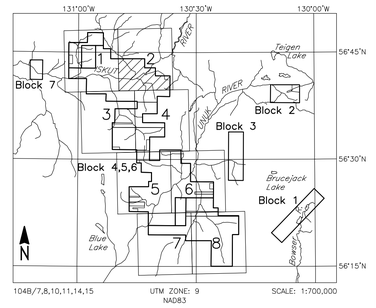
Flight number
Flight direction
Flight line number
Reflight Number
Line Number
Area Number
Fiducials identified on profiles
Dip direction
EM anomaly (see EM legend)
Conductor axis (on EM maps only)
Arcs indicate the conductor has a thickness > 10m
Magnetic correlation in nT (gammas)

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



104B/7,8,10,11,14,15 UTM ZONE: 9 NAD83 SCALE: 1:700,000

HATHOR EXPLORATION LIMITED

ESKAY AREA BLOCKS 4–6, B.C.

APPARENT RESISTIVITY 7200 Hz COPLANAR

FUGRO DIGHEM*/RAD SURVEY	NTS: 104B/7,8,10,11,14,15	GEOPHYSICIST:
DATE: DECEMBER, 2007	JOB: 06041	SHEET: 2
Fugro Airborne Surveys		

0 1 2 Km
0 1 Mi
Scale 1:20 000

FUGRO AIRBORNE SURVEYS