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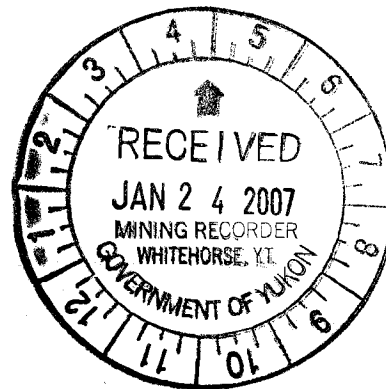
2006 Geophysical Assessment Report
on the
Freegold Mountain Property

Freegold Mountain Area
NTS 115 I-2,3,6,7
Lat. 62°19'N, Long. 137°11'W
Whitehorse Mining District

Prepared for:
Northern Freegold Resources Ltd.
Box 31293
Whitehorse, YT
Y1A 5P7

Work Performed by:
Geotech Ltd.

Report Prepared by:
Susan P. Craig, P.Geo.



January 4, 2007

Period of Work: July 2006

Costs associated with this report have been
approved in the amount of \$ 172,200.00
for assessment credit under Certificate of Work
No. QW27954, QW27938, QW27956
QW27959
M. S. Dettwiler
Mining Recorder
Whitehorse Mining District

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Summary

The Freegold Mountain Property is located in the Dawson Range of the Yukon. In July 2006, Geotech Ltd. carried out a helicopter-borne geophysical survey over the property.

Principal geophysical sensors included a versatile time domain electromagnetic system (VTEM) and a cesium magnetometer. Ancillary equipment included a GPS navigation system and a radar altimeter. A total of 1661.2 line-km were flown.

In-field data processing involved quality control and compilation of data collected during the acquisition stage, using the in-field processing centre established at survey base. Preliminary and final data processing, including generation of final digital data products were done at the office of Geotech Ltd. in Aurora, Ontario. Processed survey results are presented as total magnetic field grid and electromagnetic stacked profiles. Digital data includes all electromagnetic and magnetic products plus positional, altitude and raw data.

Chapter 1 – Introduction

A. Introduction

A helicopter-borne versatile time domain electromagnetic geophysical survey was completed between July 9 to 17, 2006 on the property by Geotech Limited.

B. Location and Access

The property is located in the Dawson Range and covers Freegold Mountain, approximately 65 kilometers northwest of Carmacks on NTS Map Sheets 115 I-2,3,6 & 7 centred at latitude 62° 19'N and longitude 137°11'W. Figure 1 shows the property location. The claims are accessible via the Freegold Road, a government maintained gravel road. Four-wheel drive roads access the zones of the property from the Freegold Road. Several cat trails on the claims provide access to trenches and drill sites. The total road distance from Carmacks to the base camp at Revenue Creek is 85 kilometres.

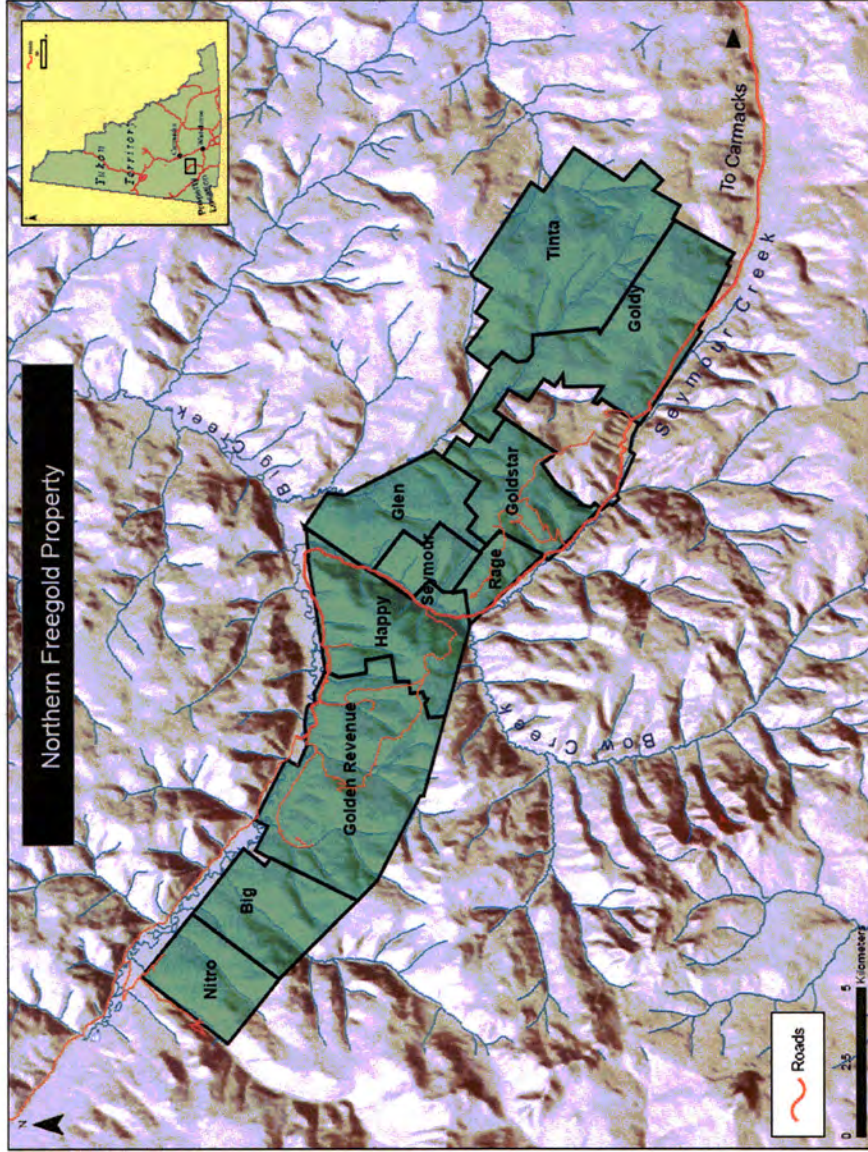
C. Physiography

The Freegold Mountain area features large, well rounded hills and ridges of the Dawson Range of the Coast Mountains. Valley floors are flat and swampy, and valley walls rise sharply to the upland areas. Elevations range from 750 metres in the Big Creek valley to the summit of Freegold Mountain at 1,450 metres. Glaciation has had a limited effect; most of the area remained ice-free during the last Ice Age.

The upper slopes and ridges are broad and gently sloping with buck brush and alpine vegetation. Lower slopes are steeper and feature spruce forest and thickets of dwarf willow, alder, birch and poplar forest. Swampy conditions prevail at higher elevations and outcrop is sparse, restricted to ridge crests and the steepest slopes. Northerly facing slopes and valley floors are often underlain by permafrost, which hinders geochemistry, trenching and road building.

The Freegold area has a northern interior climate with long cold winters and moderate precipitation. The exploration season lasts from May until October.

Figure 1 – Location Map



D.Property/Claim Summary

The “Freegold Mountain Property” includes the claims in Table 1. The airborne survey covered all of these claims. Some of the claims are held by Archer Cathro, Bill Harris and Eric Wienecke, which are subject to agreements with Northern Freegold Resources Ltd. Other claims are held in trust by Bill Brommell, Mark Roden, Daniel Schuneman, and Matthias Bindig for Northern Freegold Resources Ltd.

Table 1: Freegold Mountain Property Claims

Grant No.	Claim Name	Claim Number
4212	MAYFLOWER	
4222	PAL	
4231	KEY	
15494	AUGUSTA	
15505	MARGARETE	
15519	GOLD STAR	
15549	PEERLESS	
15677	PROTECTION	
39169	DONALDA	1
39170	DONALDA	2
39171	DONALDA	3
39172	DONALDA	4
39173	DONALDA	5
39174	DONALDA	6
39175	GOOSE	
55613	BAKER	
55619	MONA	
55626	DONALDA	7
55627	CONNIE	
55628	JIM	
55645	YUKONIA	1
55649	YUKONIA	2
55651	YUKONIA	3
55661	YUKONIA	4
55662	NEIL	
55669	BILL FRACT	
55680	YUKONIA	5
55721	YUKONIA	6
55811	DONALDA	8
55840	DONALDA	9
55989	MILL	1
55990	MILL	2
55995	MILL	3
60233	DONALDA	13
60420	SHEARZONE	1

60421	SHEARZONE	2
60422	VINDICATOR	1
60423	VINDICATOR	2
63638	LIBERTY	
63639	EXCELSIOR	1
63640	EXCELSIOR	2
63641	EXCELSIOR	3
67180	REVENUE COPPER	1
67181	REVENUE COPPER	2
67182	REVENUE COPPER	3
67183	REVENUE COPPER	4
67184	REVENUE COPPER	5
67185	REVENUE COPPER	6
67186	REVENUE COPPER	7
67187	REVENUE COPPER	8
68060	ADDITION	1
68061	ADDITION	2
73464	PROGRESS	1
73465	PROGRESS	2
73762	KIM FRACTION	
73763	LIZ FRACTION	
73764	LOON FRACTION	
74488	ADDITION	3
74489	ADDITION	4
75321	HOMESTAKE	1
75322	HOMESTAKE	2
75323	ADDITION	5
90465	GREENSTONE	1
90466	GREENSTONE	2
90467	GREENSTONE	3
90468	GREENSTONE	4
91056	GREENSTONE	5
Y 21008	INCA	1
Y 21009	INCA	2
Y 21010	INCA	3
Y 21011	INCA	4
Y 21014	INCA	7
Y 21015	INCA	8
Y 21094	GREENSTONE	6
Y 21270	REVENUE NO.	9
Y 21272	REVENUE NO.	11

Y 24017	REVENUE	13
Y 24018	REVENUE	14
Y 24019	REVENUE	15
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Y 24025	REVENUE	21
Y 24026	REVENUE	22
Y 25959	REV	11
Y 25961	REV	13
Y 25962	REV	14
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Y 26362	REVENUE	4
Y 26365	REVENUE	5
Y 26366	REVENUE	6
Y 26371	ADD	5
Y 26372	ADD	6
Y 26404	REVENUE	7
Y 26405	REVENUE	8
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Y 79565	AU	2
Y 79566	AU	3
Y 79567	AU	4
Y 79568	AU	5
Y 80439	AU	6
Y 80440	AU	7
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YA51192	NUCLEUS	4
YA51194	NUCLEUS	6
YA51196	NUCLEUS	8
YA51198	NUCLEUS	10
YA51199	NUCLEUS	11
YA51200	NUCLEUS	12
YA51201	NUCLEUS	13
YA51202	NUCLEUS	14
YA51203	NUCLEUS	15
YA51204	NUCLEUS	16
YA51205	NUCLEUS	17
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YC37002	MAG	38
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YC37055	NITRO	47
YC37056	NITRO	48
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YC37132	TINTA	104
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YC41325	BIG	19
YC41326	BIG	20
YC41327	BIG	21
YC41328	BIG	22
YC41329	BIG	23
YC41330	BIG	24
YC41331	BIG	25
YC41332	BIG	26
YC41333	BIG	27
YC41334	BIG	28
YC41335	BIG	29
YC41336	BIG	30
YC41337	BIG	31
YC41338	BIG	32

YC41339	BIG	33
YC41340	DART	21
YC41341	DART	22
YC41342	DART	23
YC41343	DART	24
YC41344	DART	25
YC41345	DART	26
YC41346	DART	27
YC41347	DART	28
YC41348	DART	29
YC41349	DART	30
YC41350	DART	31
YC41351	DART	32
YC41352	DART	33
YC41353	DART	34
YC41354	DART	35
YC41355	DART	36
YC41356	DART	37
YC41357	DART	38
YC41358	FROH	39
YC41359	FROH	40
YC41360	FROH	41
YC41361	FROH	42
YC41362	FROH	43
YC41363	FROH	44
YC41364	FROH	45
YC41365	FROH	46
YC41366	GLEN	37
YC41367	GLEN	38
YC41368	GLEN	39
YC41369	GLEN	40
YC41370	GLEN	41
YC41371	GLEN	42
YC41372	GLEN	43
YC41373	GLEN	44
YC41374	GLEN	45
YC41375	GLEN	46
YC41376	GLEN	47
YC41377	GLEN	48
YC41378	GLEN	49
YC41379	GLEN	50
YC41380	GLEN	51
YC41381	GLEN	52
YC41382	GLEN	53
YC41383	GLEN	54
YC41384	GLEN	55
YC41385	GLEN	56

YC41386	GLEN	57
YC41387	GLEN	58
YC41388	GLEN	59
YC41389	GLEN	60
YC41390	GLEN	61
YC41391	GLEN	62
YC41392	TINTA	105
YC41393	TINTA	106
YC41394	TINTA	107
YC41395	TINTA	108
YC41396	TINTA	109
YC41397	TINTA	110
YC41398	TINTA	121
YC41399	TINTA	122
YC41400	TINTA	123
YC46501	TINTA	124
YC46502	TINTA	125
YC46503	TINTA	126
YC46504	TINTA	127
YC46505	TINTA	128
YC46506	TINTA	129
YC46507	TINTA	130
YC46508	TINTA	131
YC46509	TINTA	132
YC47223	FROH	47
YC47224	FROH	48
YC47225	FROH	49
YC47226	FROH	50
YC47227	FROH	51
YC47228	FROH	52
YC47229	FROH	53
YC47230	FROH	54
YC47231	FROH	55
YC47232	FROH	56
YC47233	FROH	57
YC47234	FROH	58
YC47235	FROH	59
YC47236	FROH	60
YC47237	FROH	61
YC47238	FROH	62
YC47239	FROH	63
YC47240	FROH	64
YC47241	FROH	65
YC47242	AU	8
YC47243	AU	9
YC47244	AU	10
YC47245	AU	11

YC47246	AU	12
YC47247	AU	13

Figure 2 shows the locations of these claims.

The work done on the above claims was applied to the claims listed in Table 2 below:

Grant No.	Claim Name	Claim #	Expiry prior to filing	\$ work filed	renewal period requested	new expiry date
15494	AUGUSTA		29-Jan-07	300	3	29-Jan-10
15505	MARGARETE		29-Jan-07	300	3	29-Jan-10
15519	GOLD STAR		29-Jan-07	300	3	29-Jan-10
15549	PEERLESS		29-Jan-07	300	3	29-Jan-10
15677	PROTECTION		29-Jan-07	300	3	29-Jan-10
60420	SHEARZONE	1	29-Jan-07	300	3	29-Jan-10
60421	SHEARZONE	2	29-Jan-07	300	3	29-Jan-10
60422	VINDICATOR	1	29-Jan-07	300	3	29-Jan-10
60423	VINDICATOR	2	29-Jan-07	300	3	29-Jan-10
63638	LIBERTY		29-Jan-07	300	3	29-Jan-10
63639	EXCELSIOR	1	29-Jan-07	300	3	29-Jan-10
63640	EXCELSIOR	2	29-Jan-07	300	3	29-Jan-10
63641	EXCELSIOR	3	29-Jan-07	300	3	29-Jan-10
73464	PROGRESS	1	29-Jan-07	300	3	29-Jan-10
73465	PROGRESS	2	29-Jan-07	300	3	29-Jan-10
90465	GREENSTONE	1	29-Jan-07	300	3	29-Jan-10
90466	GREENSTONE	2	29-Jan-07	300	3	29-Jan-10
90467	GREENSTONE	3	29-Jan-07	300	3	29-Jan-10
90468	GREENSTONE	4	29-Jan-07	300	3	29-Jan-10
91056	GREENSTONE	5	29-Jan-07	300	3	29-Jan-10
Y 21094	GREENSTONE	6	29-Jan-07	300	3	29-Jan-10
Y 80600	GOLDSTAR		29-Jan-07	300	3	29-Jan-10
YA92082	RICK	1	29-Jan-07	300	3	29-Jan-10
YA92083	RICK	2	29-Jan-07	300	3	29-Jan-10
YA92084	RICK	3	29-Jan-07	300	3	29-Jan-10
YA92085	RICK	4	29-Jan-07	300	3	29-Jan-10
YA92086	RICK	5	29-Jan-07	300	3	29-Jan-10
YA92087	RICK	6	29-Jan-07	300	3	29-Jan-10
YA92088	RICK	7	29-Jan-07	300	3	29-Jan-10
YA92089	RICK	8	29-Jan-07	300	3	29-Jan-10
YA92090	RICK	9	29-Jan-07	300	3	29-Jan-10
YA92091	RICK	10	29-Jan-07	300	3	29-Jan-10
YA92092	RICK	11	29-Jan-07	300	3	29-Jan-10
YA92093	RICK	12	29-Jan-07	300	3	29-Jan-10
YA92094	RICK	13	29-Jan-07	300	3	29-Jan-10
YA92095	RICK	14	29-Jan-07	300	3	29-Jan-10

YA92748	RICK	15	29-Jan-07	300	3	29-Jan-10
YA92749	RICK	16	29-Jan-07	300	3	29-Jan-10
YA92750	RICK	17	29-Jan-07	300	3	29-Jan-10
YA92751	RICK	18	29-Jan-07	300	3	29-Jan-10
YA92752	RICK	19	29-Jan-07	300	3	29-Jan-10
YA92753	RICK	20	29-Jan-07	300	3	29-Jan-10
YA92754	RICK	21	29-Jan-07	300	3	29-Jan-10
YA92757	CABAGE	1	29-Jan-07	300	3	29-Jan-10
YA92758	CABAGE	2	29-Jan-07	300	3	29-Jan-10
YA92759	CABAGE	3	29-Jan-07	300	3	29-Jan-10
YA92760	CABAGE	4	29-Jan-07	300	3	29-Jan-10
YA92761	CABAGE	5	29-Jan-07	300	3	29-Jan-10
YA92762	CABAGE	6	29-Jan-07	300	3	29-Jan-10
YA92763	CABAGE	7	29-Jan-07	300	3	29-Jan-10
YA92764	CABAGE	8	29-Jan-07	300	3	29-Jan-10
YA92765	CABAGE	9	29-Jan-07	300	3	29-Jan-10
YA92766	CABAGE	10	29-Jan-07	300	3	29-Jan-10
YA92767	CABAGE	11	29-Jan-07	300	3	29-Jan-10
YA92768	CABAGE	13	29-Jan-07	300	3	29-Jan-10
YA92769	CABAGE	14	29-Jan-07	300	3	29-Jan-10
YA92770	CABAGE	17	29-Jan-07	300	3	29-Jan-10
YA92771	CABAGE	18	29-Jan-07	300	3	29-Jan-10
YA92772	CABAGE	19	29-Jan-07	300	3	29-Jan-10
YA92773	CABAGE	20	29-Jan-07	300	3	29-Jan-10
YA92774	CABAGE	21	29-Jan-07	300	3	29-Jan-10
YA92775	CABAGE	22	29-Jan-07	300	3	29-Jan-10
YA92776	CABAGE	23	29-Jan-07	300	3	29-Jan-10
YA92777	CABAGE	24	29-Jan-07	300	3	29-Jan-10
YB05903	BYNORDAC	1	29-Jan-07	300	3	29-Jan-10
YB05904	BYNORDAC	2	29-Jan-07	300	3	29-Jan-10
YB05905	BYNORDAC	3	29-Jan-07	300	3	29-Jan-10
YB05906	BYNORDAC	4	29-Jan-07	300	3	29-Jan-10
YB05907	BYNORDAC	5	29-Jan-07	300	3	29-Jan-10
YB05908	BYNORDAC	6	29-Jan-07	300	3	29-Jan-10
YB37987	PAULINE	1	29-Jan-07	300	3	29-Jan-10
YB37988	GOLDSTAR	1	29-Jan-07	300	3	29-Jan-10
YC09243	MORE	3	19-Feb-12	300	3	19-Feb-15
YC09244	MORE	4	19-Feb-12	300	3	19-Feb-15
YC09245	MORE	5	19-Feb-12	300	3	19-Feb-15
YC09246	MORE	6	19-Feb-12	300	3	19-Feb-15
YC09247	MORE	7	19-Feb-12	300	3	19-Feb-15
YC09248	MORE	8	19-Feb-12	300	3	19-Feb-15
YC09250	MORE	10	19-Feb-12	300	3	19-Feb-15
YC09279	NUC	1	19-Feb-12	300	3	19-Feb-15
YC09280	NUC	2	19-Feb-12	300	3	19-Feb-15
YC09281	NUC	3	19-Feb-12	300	3	19-Feb-15
YC09282	NUC	4	19-Feb-12	300	3	19-Feb-15
YC09283	NUC	5	19-Feb-12	300	3	19-Feb-15
YC09284	NUC	6	19-Feb-12	300	3	19-Feb-15

YC09285	NUC	7	19-Feb-12	300	3	19-Feb-15
YC09336	MORE	31	19-Feb-12	300	3	19-Feb-15
YC09337	MORE	32	19-Feb-12	300	3	19-Feb-15
YC18660	TINTA	3	28-Oct-09	300	3	28-Oct-12
YC18661	TINTA	4	28-Oct-09	300	3	28-Oct-12
YC18662	TINTA	5	28-Oct-09	300	3	28-Oct-12
YC18663	TINTA	6	28-Oct-09	300	3	28-Oct-12
YC18664	TINTA	7	28-Oct-09	300	3	28-Oct-12
YC18665	TINTA	8	28-Oct-09	300	3	28-Oct-12
YC18666	TINTA	9	28-Oct-08	300	3	28-Oct-11
YC18667	TINTA	10	28-Oct-08	300	3	28-Oct-11
YC18716	GOLDY	1	23-Jun-07	300	3	23-Jun-10
YC18717	GOLDY	2	23-Jun-07	300	3	23-Jun-10
YC18718	GOLDY	3	23-Jun-07	300	3	23-Jun-10
YC18719	GOLDY	4	23-Jun-07	300	3	23-Jun-10
YC18724	GOLDY	9	23-Jun-07	300	3	23-Jun-10
YC18725	GOLDY	10	23-Jun-07	300	3	23-Jun-10
YC18726	GOLDY	11	23-Jun-07	300	3	23-Jun-10
YC18727	GOLDY	12	23-Jun-07	300	3	23-Jun-10
YC18728	GOLDY	13	23-Jun-07	300	3	23-Jun-10
YC18729	GOLDY	14	23-Jun-07	300	3	23-Jun-10
YC18730	GOLDY	15	23-Jun-07	300	3	23-Jun-10
YC18731	GOLDY	16	23-Jun-07	300	3	23-Jun-10
YC18732	GOLDY	17	23-Jun-07	300	3	23-Jun-10
YC18733	GOLDY	18	23-Jun-07	300	3	23-Jun-10
YC18734	GOLDY	19	23-Jun-07	300	3	23-Jun-10
YC18735	GOLDY	20	23-Jun-07	300	3	23-Jun-10
YC18736	GOLDY	21	23-Jun-07	300	3	23-Jun-10
YC18737	GOLDY	22	23-Jun-07	300	3	23-Jun-10
YC18738	GOLDY	23	23-Jun-07	300	3	23-Jun-10
YC18739	GOLDY	24	23-Jun-07	300	3	23-Jun-10
YC18864	HILL	14	19-Sep-07	300	3	17-Sep-10
YC18865	HILL	16	19-Sep-07	300	3	17-Sep-10
YC18866	HILL	18	19-Sep-07	300	3	17-Sep-10
YC18867	HILL	20	19-Sep-07	300	3	17-Sep-10
YC18868	HILL	21	19-Sep-07	300	3	17-Sep-10
YC18869	HILL	22	19-Sep-07	300	3	17-Sep-10
YC18870	HILL	23	19-Sep-07	300	3	17-Sep-10
YC18871	HILL	24	19-Sep-07	300	3	17-Sep-10
YC18872	HILL	25	19-Sep-07	300	3	17-Sep-10
YC18873	HILL	26	19-Sep-07	300	3	17-Sep-10
YC18874	HILL	27	19-Sep-07	300	3	17-Sep-10
YC18875	HILL	28	19-Sep-07	300	3	17-Sep-10
YC18876	HILL	29	19-Sep-07	300	3	17-Sep-10
YC18877	HILL	30	19-Sep-07	300	3	17-Sep-10
YC18878	HILL	31	19-Sep-07	300	3	17-Sep-10
YC18879	HILL	32	19-Sep-07	300	3	17-Sep-10
YC18880	HILL	33	19-Sep-07	300	3	17-Sep-10
YC18881	HILL	34	19-Sep-07	300	3	17-Sep-10

YC18882	HILL	35	19-Sep-07	300	3	17-Sep-10
YC18883	HILL	36	19-Sep-07	300	3	17-Sep-10
YC18884	HILL	37	19-Sep-07	300	3	17-Sep-10
YC18885	HILL	38	19-Sep-07	300	3	17-Sep-10
YC18886	HILL	39	19-Sep-07	300	3	17-Sep-10
YC18887	HILL	40	19-Sep-07	300	3	17-Sep-10
YC18888	HILL	50	19-Sep-07	300	3	17-Sep-10
YC18889	HILL	52	19-Sep-07	300	3	17-Sep-10
YC18890	HILL	54	19-Sep-06	300	3	19-Sep-09
YC18891	HILL	56	19-Sep-07	300	3	17-Sep-10
YC19282	HAPPY	1	19-Jun-09	300	3	19-Jun-12
YC19283	HAPPY	2	19-Jun-09	300	3	19-Jun-12
YC19284	HAPPY	3	19-Jun-09	300	3	19-Jun-12
YC19285	HAPPY	4	19-Jun-09	300	3	19-Jun-12
YC19286	HAPPY	5	19-Jun-09	300	3	19-Jun-12
YC19287	HAPPY	6	19-Jun-09	300	3	19-Jun-12
YC19288	HAPPY	7	19-Jun-10	300	3	22-Feb-13
YC19289	HAPPY	8	19-Jun-10	300	3	22-Feb-13
YC19290	FELIZ	1	19-Jun-09	300	3	19-Jun-12
YC19291	FELIZ	2	19-Jun-09	300	3	19-Jun-12
YC19292	FELIZ	3	19-Jun-09	300	3	19-Jun-12
YC19293	FELIZ	4	19-Jun-09	300	3	19-Jun-12
YC19564	DART	1	11-Jul-07	300	3	11-Jul-10
YC19565	DART	2	11-Jul-07	300	3	11-Jul-10
YC19566	DART	3	11-Jul-07	300	3	11-Jul-10
YC19567	DART	4	11-Jul-07	300	3	11-Jul-10
YC19568	DART	5	11-Jul-07	300	3	11-Jul-10
YC19569	DART	6	11-Jul-07	300	3	11-Jul-10
YC19570	DART	7	11-Jul-07	300	3	11-Jul-10
YC19571	DART	8	11-Jul-07	300	3	11-Jul-10
YC19572	DART	9	11-Jul-07	300	3	11-Jul-10
YC19573	DART	10	11-Jul-07	300	3	11-Jul-10
YC19574	DART	11	11-Jul-07	300	3	11-Jul-10
YC19575	DART	12	11-Jul-07	300	3	11-Jul-10
YC19576	DART	13	11-Jul-07	300	3	11-Jul-10
YC19577	DART	14	11-Jul-07	300	3	11-Jul-10
YC19653	TINTA	1	13-Sep-11	300	3	13-Sep-14
YC19654	TINTA	2	13-Sep-11	300	3	13-Sep-14
YC19655	FELIZ	5	8-Oct-09	300	3	8-Oct-12
YC19656	FELIZ	6	8-Oct-09	300	3	8-Oct-12
YC19657	FELIZ	7	8-Oct-09	300	3	8-Oct-12
YC19658	FELIZ	8	8-Oct-09	300	3	8-Oct-12
YC19659	FELIZ	9	8-Oct-09	300	3	8-Oct-12
YC19660	FELIZ	10	8-Oct-09	300	3	8-Oct-12
YC19661	FELIZ	25	8-Oct-09	300	3	8-Oct-12
YC19662	FELIZ	26	8-Oct-09	300	3	8-Oct-12
YC19663	FELIZ	27	8-Oct-09	300	3	8-Oct-12
YC19664	FELIZ	28	8-Oct-09	300	3	8-Oct-12
YC19665	FELIZ	29	8-Oct-09	300	3	8-Oct-12

YC29907	SEY	21	22-Feb-10	300	3	22-Feb-13
YC29908	SEY	22	22-Feb-10	300	3	22-Feb-13
YC29909	SEY	23	22-Feb-10	300	3	22-Feb-13
YC29910	SEY	24	22-Feb-10	300	3	22-Feb-13
YC29911	SEY	25	22-Feb-10	300	3	22-Feb-13
YC29912	SEY	26	22-Feb-10	300	3	22-Feb-13
YC29913	SEY	27	22-Feb-10	300	3	22-Feb-13
YC29914	SEY	28	22-Feb-10	300	3	22-Feb-13
YC30019	GOLDY	25	17-Sep-06	300	3	17-Sep-09
YC30020	GOLDY	26	17-Sep-06	300	3	17-Sep-09
YC30021	GOLDY	27	17-Sep-06	300	3	17-Sep-09
YC30022	GOLDY	28	17-Sep-06	300	3	17-Sep-09
YC30023	GOLDY	29	17-Sep-06	300	3	17-Sep-09
YC30024	GOLDY	30	17-Sep-06	300	3	17-Sep-09
YC30025	GOLDY	31	17-Sep-06	300	3	17-Sep-09
YC30026	GOLDY	32	17-Sep-06	300	3	17-Sep-09
YC30027	GOLDY	33	17-Sep-06	300	3	17-Sep-09
YC30028	GOLDY	34	17-Sep-06	300	3	17-Sep-09
YC30029	GOLDY	35	17-Sep-06	300	3	17-Sep-09
YC30030	GOLDY	36	17-Sep-06	300	3	17-Sep-09
YC30031	GOLDY	37	17-Sep-06	300	3	17-Sep-09
YC30032	GOLDY	38	17-Sep-06	300	3	17-Sep-09
YC30033	GOLDY	39	17-Sep-06	300	3	17-Sep-09
YC30034	GOLDY	40	17-Sep-06	300	3	17-Sep-09
YC30035	GOLDY	41	17-Sep-06	300	3	17-Sep-09
YC30036	GOLDY	42	17-Sep-06	300	3	17-Sep-09
YC30037	GOLDY	44	17-Sep-07	300	3	17-Sep-10
YC30038	DART	15	17-Sep-06	300	3	17-Sep-09
YC30039	DART	16	17-Sep-06	300	3	17-Sep-09
YC30040	DART	17	17-Sep-06	300	3	17-Sep-09
YC30041	DART	18	17-Sep-06	300	3	17-Sep-09
YC30042	DART	19	17-Sep-06	300	3	17-Sep-09
YC30043	DART	20	17-Sep-06	300	3	17-Sep-09
YC30062	GLEN	1	17-Sep-06	300	3	17-Sep-09
YC30063	GLEN	2	17-Sep-06	300	3	17-Sep-09
YC30064	GLEN	3	17-Sep-06	300	3	17-Sep-09
YC30065	GLEN	4	17-Sep-06	300	3	17-Sep-09
YC30066	GLEN	5	17-Sep-06	300	3	17-Sep-09
YC30067	GLEN	6	17-Sep-06	300	3	17-Sep-09
YC30068	GLEN	7	17-Sep-06	300	3	17-Sep-09
YC30069	GLEN	8	17-Sep-06	300	3	17-Sep-09
YC30070	GLEN	9	17-Sep-06	300	3	17-Sep-09
YC30071	GLEN	10	17-Sep-06	300	3	17-Sep-09
YC30072	GLEN	11	17-Sep-06	300	3	17-Sep-09
YC30073	GLEN	12	17-Sep-06	300	3	17-Sep-09
YC30074	GLEN	13	17-Sep-06	300	3	17-Sep-09
YC30075	GLEN	14	17-Sep-06	300	3	17-Sep-09
YC30076	GLEN	15	17-Sep-06	300	3	17-Sep-09
YC30077	GLEN	16	17-Sep-06	300	3	17-Sep-09

YC30078	GLEN	17	17-Sep-06	300	3	17-Sep-09
YC30079	GLEN	18	17-Sep-06	300	3	17-Sep-09
YC30080	GLEN	19	17-Sep-06	300	3	17-Sep-09
YC30081	GLEN	20	17-Sep-06	300	3	17-Sep-09
YC30082	GLEN	21	17-Sep-06	300	3	17-Sep-09
YC30083	GLEN	22	17-Sep-06	300	3	17-Sep-09
YC30084	GLEN	23	17-Sep-06	300	3	17-Sep-09
YC30085	GLEN	24	17-Sep-06	300	3	17-Sep-09
YC30086	GLEN	25	17-Sep-06	300	3	17-Sep-09
YC30087	GLEN	26	17-Sep-06	300	3	17-Sep-09
YC30088	GLEN	27	17-Sep-06	300	3	17-Sep-09
YC30089	GLEN	28	17-Sep-06	300	3	17-Sep-09
YC30090	GLEN	29	17-Sep-06	300	3	17-Sep-09
YC30091	GLEN	30	17-Sep-06	300	3	17-Sep-09
YC30092	GLEN	31	17-Sep-06	300	3	17-Sep-09
YC30093	GLEN	32	17-Sep-06	300	3	17-Sep-09
YC30094	GLEN	33	17-Sep-06	300	3	17-Sep-09
YC30095	GLEN	34	17-Sep-06	300	3	17-Sep-09
YC30096	GLEN	35	17-Sep-06	300	3	17-Sep-09
YC30097	GLEN	36	17-Sep-06	300	3	17-Sep-09
YC30123	GOLDY	5	8-Oct-06	300	3	8-Oct-09
YC30124	GOLDY	6	8-Oct-06	300	3	8-Oct-09
YC30125	GOLDY	7	8-Oct-06	300	3	8-Oct-09
YC30126	GOLDY	8	8-Oct-06	300	3	8-Oct-09
YC30127	GOLDY	43	8-Oct-07	300	3	17-Sep-10
YC30165	MAG	1	25-Oct-06	300	3	25-Oct-09
YC30166	MAG	2	25-Oct-06	300	3	25-Oct-09
YC30167	MAG	3	25-Oct-06	300	3	25-Oct-09
YC30168	MAG	4	25-Oct-06	300	3	25-Oct-09
YC30169	MAG	5	25-Oct-06	300	3	25-Oct-09
YC30170	MAG	6	25-Oct-06	300	3	25-Oct-09
YC30171	MAG	7	25-Oct-06	300	3	25-Oct-09
YC30172	MAG	8	25-Oct-06	300	3	25-Oct-09
YC30173	MAG	9	25-Oct-06	300	3	25-Oct-09
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YC30175	MAG	11	25-Oct-06	300	3	25-Oct-09
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YC30177	MAG	13	25-Oct-06	300	3	25-Oct-09
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YC30179	MAG	15	25-Oct-06	300	3	25-Oct-09
YC30180	MAG	16	25-Oct-06	300	3	25-Oct-09
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YC30182	MAG	18	25-Oct-06	300	3	25-Oct-09
YC30183	MAG	19	25-Oct-06	300	3	25-Oct-09
YC30184	MAG	20	25-Oct-06	300	3	25-Oct-09
YC30185	MAG	21	25-Oct-06	300	3	25-Oct-09
YC30186	MAG	22	25-Oct-06	300	3	25-Oct-09
YC30187	MAG	23	25-Oct-06	300	3	25-Oct-09
YC30188	MAG	24	25-Oct-06	300	3	25-Oct-09

YC30189	MAG	25	25-Oct-06	300	3	25-Oct-09
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YC30191	MAG	27	25-Oct-06	300	3	25-Oct-09
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YC30194	MAG	30	25-Oct-06	300	3	25-Oct-09
YC30195	MAG	31	25-Oct-06	300	3	25-Oct-09
YC30196	MAG	32	25-Oct-06	300	3	25-Oct-09
YC30197	MAG	33	25-Oct-06	300	3	25-Oct-09
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YC37038	NITRO	30	25-Oct-06	300	3	25-Oct-09
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YC37040	NITRO	32	25-Oct-06	300	3	25-Oct-09
YC37041	NITRO	33	25-Oct-06	300	3	25-Oct-09
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YC37045	NITRO	37	25-Oct-06	300	3	25-Oct-09
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YC37052	NITRO	44	25-Oct-06	300	3	25-Oct-09
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YC37054	NITRO	46	25-Oct-06	300	3	25-Oct-09
YC37055	NITRO	47	25-Oct-06	300	3	25-Oct-09
YC37056	NITRO	48	25-Oct-06	300	3	25-Oct-09
YC37127	TINTA	11	26-Nov-08	300	3	28-Oct-11
YC37128	TINTA	12	26-Nov-08	300	3	28-Oct-11
YC37129	TINTA	101	26-Nov-08	300	3	28-Oct-11
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YC37132	TINTA	104	26-Nov-08	300	3	28-Oct-11
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YC40080	RAGE	5	22-Jul-06	300	3	22-Jul-09
YC40081	RAGE	6	22-Jul-06	300	3	22-Jul-09
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YC40083	RAGE	8	22-Jul-06	300	3	22-Jul-09
YC40084	RAGE	9	22-Jul-06	300	3	22-Jul-09
YC40085	RAGE	10	22-Jul-06	300	3	22-Jul-09
YC40086	RAGE	11	22-Jul-06	300	3	22-Jul-09
YC40087	RAGE	12	22-Jul-06	300	3	22-Jul-09
YC40088	RAGE	13	22-Jul-06	300	3	22-Jul-09
YC40089	RAGE	14	22-Jul-06	300	3	22-Jul-09
YC40090	RAGE	15	22-Jul-06	300	3	22-Jul-09
YC40091	RAGE	16	22-Jul-06	300	3	22-Jul-09
YC40092	RAGE	17	22-Jul-06	300	3	22-Jul-09
YC40093	RAGE	18	22-Jul-06	300	3	22-Jul-09
YC40094	RAGE	19	22-Jul-06	300	3	22-Jul-09
YC40095	FROH	1	22-Jul-06	300	3	22-Jul-09
YC40096	FROH	2	22-Jul-06	300	3	22-Jul-09
YC40097	FROH	3	22-Jul-06	300	3	22-Jul-09
YC40098	FROH	4	22-Jul-06	300	3	22-Jul-09
YC40099	FROH	5	22-Jul-06	300	3	22-Jul-09

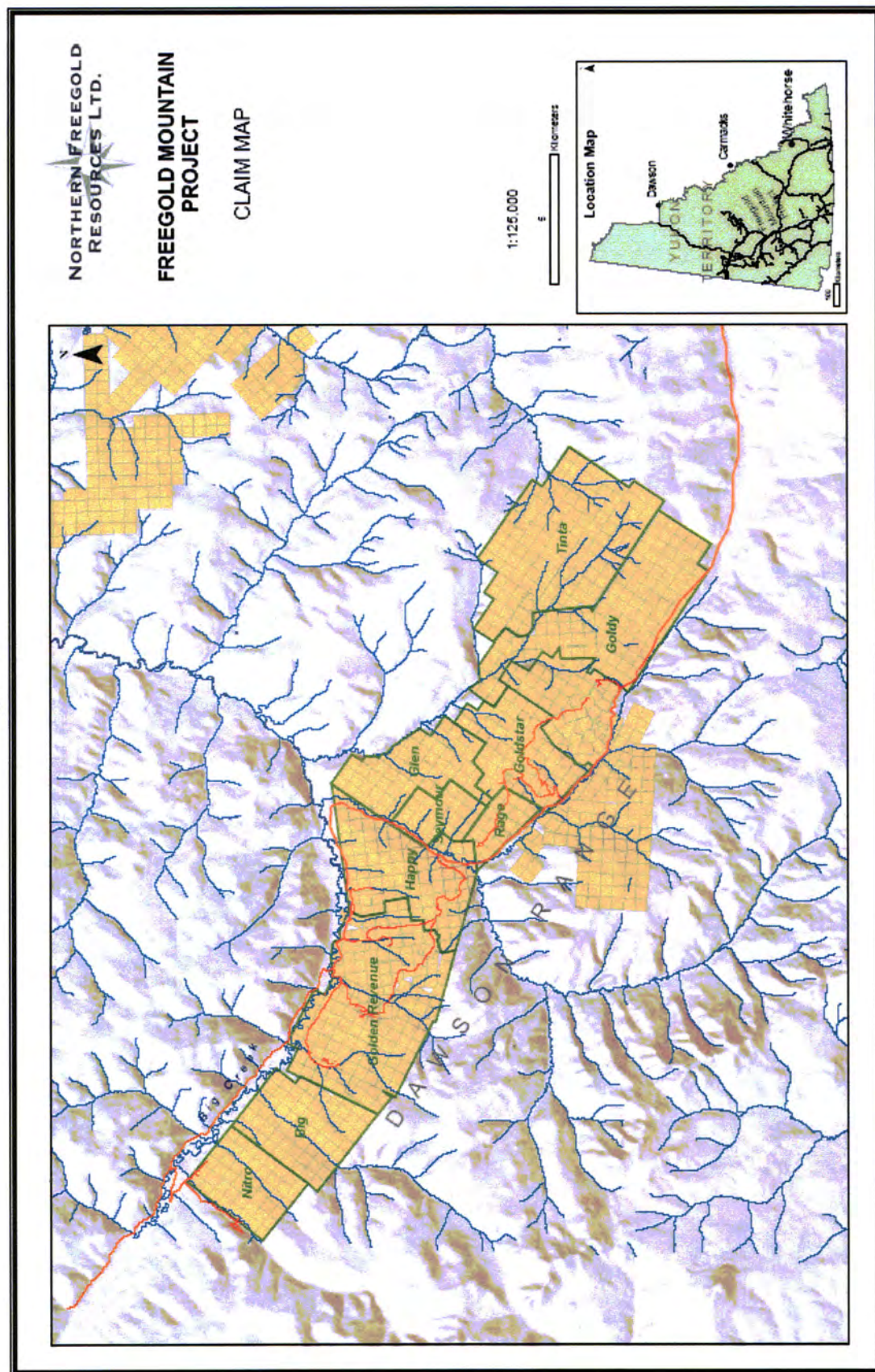
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YC40101	FROH	7	22-Jul-06	300	3	22-Jul-09
YC40102	FROH	8	22-Jul-06	300	3	22-Jul-09
YC40103	FROH	9	22-Jul-06	300	3	22-Jul-09
YC40104	FROH	10	22-Jul-06	300	3	22-Jul-09
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YC40106	FROH	12	22-Jul-06	300	3	22-Jul-09
YC40107	FROH	13	22-Jul-06	300	3	22-Jul-09
YC40108	FROH	14	22-Jul-06	300	3	22-Jul-09
YC40109	FROH	15	22-Jul-06	300	3	22-Jul-09
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YC40111	FROH	17	22-Jul-06	300	3	22-Jul-09
YC40112	FROH	18	22-Jul-06	300	3	22-Jul-09
YC40113	FROH	19	22-Jul-06	300	3	22-Jul-09
YC40114	FROH	20	22-Jul-06	300	3	22-Jul-09
YC40917	FROH	21	28-Oct-06	300	3	28-Oct-09
YC40918	FROH	22	28-Oct-06	300	3	28-Oct-09
YC40919	FROH	23	28-Oct-06	300	3	28-Oct-09
YC40920	FROH	24	28-Oct-06	300	3	28-Oct-09
YC40921	FROH	25	28-Oct-06	300	3	28-Oct-09
YC40922	FROH	26	28-Oct-06	300	3	28-Oct-09
YC40923	FROH	27	28-Oct-06	300	3	28-Oct-09
YC40924	FROH	28	28-Oct-06	300	3	28-Oct-09
YC40925	FROH	29	28-Oct-06	300	3	28-Oct-09
YC40926	FROH	30	28-Oct-06	300	3	28-Oct-09
YC40927	FROH	31	28-Oct-06	300	3	28-Oct-09
YC40928	FROH	32	28-Oct-06	300	3	28-Oct-09
YC40929	FROH	33	28-Oct-06	300	3	28-Oct-09
YC40930	FROH	34	28-Oct-06	300	3	28-Oct-09
YC40931	FROH	35	28-Oct-06	300	3	28-Oct-09
YC40932	FROH	36	28-Oct-06	300	3	28-Oct-09
YC40933	FROH	37	28-Oct-06	300	3	28-Oct-09
YC40934	FROH	38	28-Oct-06	300	3	28-Oct-09
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YC41308	BIG	2	28-Feb-07	300	3	28-Feb-10
YC41309	BIG	3	28-Feb-07	300	3	28-Feb-10
YC41310	BIG	4	28-Feb-07	300	3	28-Feb-10
YC41311	BIG	5	28-Feb-07	300	3	28-Feb-10
YC41312	BIG	6	28-Feb-07	300	3	28-Feb-10
YC41313	BIG	7	28-Feb-07	300	3	28-Feb-10
YC41314	BIG	8	28-Feb-07	300	3	28-Feb-10
YC41315	BIG	9	28-Feb-07	300	3	28-Feb-10
YC41316	BIG	10	28-Feb-07	300	3	28-Feb-10
YC41317	BIG	11	28-Feb-07	300	3	28-Feb-10
YC41318	BIG	12	28-Feb-07	300	3	28-Feb-10
YC41319	BIG	13	28-Feb-07	300	3	28-Feb-10
YC41320	BIG	14	28-Feb-07	300	3	28-Feb-10
YC41321	BIG	15	28-Feb-07	300	3	28-Feb-10
YC41322	BIG	16	28-Feb-07	300	3	28-Feb-10

YC41323	BIG	17	28-Feb-07	300	3	28-Feb-10
YC41324	BIG	18	28-Feb-07	300	3	28-Feb-10
YC41325	BIG	19	28-Feb-07	300	3	28-Feb-10
YC41326	BIG	20	28-Feb-07	300	3	28-Feb-10
YC41327	BIG	21	28-Feb-07	300	3	28-Feb-10
YC41328	BIG	22	28-Feb-07	300	3	28-Feb-10
YC41329	BIG	23	28-Feb-07	300	3	28-Feb-10
YC41330	BIG	24	28-Feb-07	300	3	28-Feb-10
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YC41336	BIG	30	28-Feb-07	300	3	28-Feb-10
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YC41354	DART	35	28-Feb-07	300	3	28-Feb-10
YC41355	DART	36	28-Feb-07	300	3	28-Feb-10
YC41356	DART	37	28-Feb-07	300	3	28-Feb-10
YC41357	DART	38	28-Feb-07	300	3	28-Feb-10
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YC41369	GLEN	40	28-Feb-07	300	3	28-Feb-10
YC41370	GLEN	41	28-Feb-07	300	3	28-Feb-10
YC41371	GLEN	42	28-Feb-07	300	3	28-Feb-10

YC41372	GLEN	43	28-Feb-07	300	3	28-Feb-10
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YC41374	GLEN	45	28-Feb-07	300	3	28-Feb-10
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YC41379	GLEN	50	28-Feb-07	300	3	28-Feb-10
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YC47223	FROH	47	4-Jul-07	300	3	4-Jul-11
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YC47225	FROH	49	4-Jul-07	300	3	4-Jul-11
YC47226	FROH	50	4-Jul-07	300	3	4-Jul-11
YC47227	FROH	51	4-Jul-07	300	3	4-Jul-11
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YC47231	FROH	55	4-Jul-07	300	3	4-Jul-11
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YC47236	FROH	60	4-Jul-07	300	3	4-Jul-11
YC47237	FROH	61	4-Jul-07	300	3	4-Jul-11
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YC47247	AU	13	4-Jul-07	300	3	4-Jul-10
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YB07769	Boo	30	31-Aug-08	300	3	31-Aug-11
YB07770	Boo	31	31-Aug-08	300	3	31-Aug-11
YB07771	Boo	32	31-Aug-08	300	3	31-Aug-11
YB07788	Boo	49	31-Aug-08	300	3	31-Aug-11
YB07789	Boo	50	31-Aug-08	300	3	31-Aug-11
YB07790	Boo	51	31-Aug-08	300	3	31-Aug-11
YB07791	Boo	52	31-Aug-08	300	3	31-Aug-11
YB07792	Boo	53	31-Aug-08	300	3	31-Aug-11
YB07793	Boo	54	31-Aug-08	300	3	31-Aug-11
YB07794	Boo	55	31-Aug-08	300	3	31-Aug-11
YB07795	Boo	56	31-Aug-08	300	3	31-Aug-11
YB07796	Boo	57	31-Aug-08	300	3	31-Aug-11
YB07797	Boo	58	31-Aug-08	300	3	31-Aug-11
YB07798	Boo	59	31-Aug-08	300	3	31-Aug-11
YB07799	Boo	60	31-Aug-08	300	3	31-Aug-11
YB07800	Boo	61	31-Aug-08	300	3	31-Aug-11
YB07801	Boo	62	31-Aug-08	300	3	31-Aug-11
YB07802	Boo	63	31-Aug-08	300	3	31-Aug-11
YB07803	Boo	64	31-Aug-08	300	3	31-Aug-11
YB07804	Boo	65	31-Aug-08	300	3	31-Aug-11
YB07805	Boo	66	31-Aug-08	300	3	31-Aug-11
YB07816	Boo	101	31-Aug-08	300	3	31-Aug-11
YB07817	Boo	102	31-Aug-08	300	3	31-Aug-11
YB07818	Boo	103	31-Aug-08	300	3	31-Aug-11
YB07819	Boo	104	31-Aug-08	300	3	31-Aug-11

Figure 2



Chapter 2 – Regional Geology

The text below has been taken directly from Evaluation Report on the Freegold Project by Jean Pautler, P. Geo., written June 30, 2006:

The Freegold Project is situated within the Dawson Range portion of the Tintina Gold Belt, characterized by plutonic rocks of the 100 Ma Cretaceous Dawson Range Batholith and early Jurassic Klotassin Suite metaplutonic rocks intruding metavolcanic and metasedimentary rocks of the Yukon-Tanana Terrane. The region is transected by the west-northwest trending Big Creek Fault, which provides the locus for an over 100 km long well-mineralized belt, with placer gold deposits, porphyry copper-gold, and gold veins and breccia bodies, extending from Mt. Freegold northwesterly to the Casino copper-gold porphyry deposit. The Freegold Project covers a 30 km strike extent of this belt.

The project area covers fifteen government documented mineral occurrences, as well as numerous showings. The occurrences include advanced staged deposits with published historical resource estimates such as the Tinta Hill silver-gold deposit, the Nucleus and Revenue gold-copper deposits on the Golden Revenue property and the Guder deposit, encompassing the Margarete gold vein and the Augusta gold skarn deposits on the Goldstar property.

There are several deposit models present within the Freegold Project which include calc-alkalic porphyry gold-copper and associated adjacent epithermal vein and breccia systems. The 100 km long Big Creek portion of the 250 km long Dawson Range porphyry belt includes the past producing Laforma Mine, a low sulphidation epithermal vein deposit in the southeast on the flank of Mt. Freegold and the Casino porphyry copper-gold deposit in the northwest. Strong similarities exist with the Kemess-Toodoggone Camp in northern British Columbia which is characterized by calc-alkalic porphyry gold-copper deposits (Kemess Mine) and low sulphidation epithermal deposits (past producing Baker and Cheni mines).

Copper-gold porphyry targets within the Freegold Project, covering a 30 km strike extent of the Big Creek belt, include the Nucleus and Revenue deposits on the Golden Revenue property, the Klazan prospect on the Nitro property and the Castle showing on the Glen property. Associated deposit types of the porphyry model include skarn (Guder showing - Augusta zone on the Goldstar property), porphyry gold, low sulphidation (Goldy) and high sulphidation epithermal systems, polymetallic veins (Tinta Hill) and sulphide mantos and replacements. Similarities exist to the orogenic type (Pogo Deposit in Alaska) and the intrusion-related gold pyrrhotite vein model such as at the past producing Snip Mine in northern British Columbia.

Exploration, undertaken from 1930 to present, has involved approximately 990m of underground development (primarily on Tinta Hill), 23,000m of drilling (largely diamond drilling) in approximately 250 holes (predominantly on Golden Revenue and Tinta Hill), extensive mechanized and hand trenching, rock and soil geochemistry, and geophysical surveys (electromagnetic, magnetic and induced polarization).

Adjacent properties include the La Forma and Antoniuk deposits and the adjacent Ant property, all held by FM Resources Corp and situated between the Goldy and Goldstar properties of Northern Freegold Resources Ltd. The past producing La Forma Mine contains an historical resource estimate of approximately 602,000 tonnes averaging 4.3 g/t gold, with 260,000 tonnes of oxidized mineralization grading an average of 9.6 g/t gold at a cut-off of 1.1 g/t (*FM Resources, 1999*). Approximately 55% of the currently known structure is untested. The Antoniuk deposit contains an historical resource estimate of 4 million tonnes of oxide mineralization averaging 1.44 g/t gold (168,000 ounces contained gold) to a depth of 185m, mineable by open pit methods at a waste to ore ratio of 1.14 to 1 (*Main, 1989*).

Significant adjacent copper-gold porphyry deposits within the area include the Cash deposit, 5 km northwest of the project area (with an historical resource estimate of 36.3 million tonnes grading 0.17% Cu, 0.018% Mo, with 0.2 g/t Au, open in three directions and at depth), the Carmacks Copper deposit, 25 km east of the Freegold District (20 mt grading 1.0% Cu, 0.45 g/t Au) and the Minto deposit of Sherwood Copper, 30 km to the north (8 mt grading 1.85% Cu, 10 g/t Ag) (*Mougeot and Walton, 1999*). The Casino porphyry deposit (964 mt grading 0.22% Cu, 0.24 g/t Au and 0.02% Mo) lies 80 km to the northwest of the Freegold Project within the same belt.

Several historical resource estimates have been calculated for the individual deposits within the Freegold Project prior to the implementation of National Instrument 43-101 standards. A preliminary resource of 515,300 tonnes of 4.1 g/t Au, 223 g/t Ag, 7.2% Pb, 2.6% Zn and 0.4% Cu was calculated for the main vein at Tinta Hill (*Tough, 1981*). A more recent government publication reports 700,000 tonnes grading 10 g/t Au and 240 g/t Ag from Tinta Hill (*Mougeot and Walton, 1999*). A drill indicated resource of 123,800 tonnes of generally oxidized mineralization grading 4.5 g/t Au and 50 g/t Ag was calculated for the Margarete deposit on the Goldstar property from a 250m section of the Margarete Vein to a depth of 60m (*Main, 1989*). The deposit is open along strike and to depth. A preliminary resource estimate of 13.5 million tonnes of 1.03 g/t Au, with significant copper, was recently calculated in house for the Nucleus Deposit on the Golden Revenue property (*W.D. Eaton, personal communication, 2006*) using a cut-off grade of 0.5 g/t Au. The estimate has not been prepared independently to NI 43-101 standards and should be regarded as potential only.

Chapter 3 - 2006 Geophysical Work Program

In July 2006, Northern Freegold Resources Ltd. contracted Geotech Ltd. of Aurora Ontario to conduct a helicopter-borne time domain electromagnetic geophysical survey over the Freegold Mountain Property. This survey was carried out between July 9 and 17th, 2006, from a base at the Revenue Creek Camp.

A total of 1661.2 line-km were flown at nominal traverse line spacing of 125 metres. Tie lines were flown perpendicular to traverse lines at a line spacing of 1180 metres. Where possible, the helicopter maintained a mean terrain clearance of 80 metres, which translated into an average height of 45 metres above ground for the bird-mounted VTEM system and 45 metres for the magnetic sensor. The survey was flown using an Astar B2 helicopter, operated by TransNorth Helicopters Limited.

Full details of the geophysical survey, including contract specifications, survey and system specifications, instrumentation, calibrations and corrections, terrain clearance, personnel are included in the Geotech Ltd. report (attached as Appendix 1 of the present report).

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Tough, Thomas R.

(1981a): Geological report on the Tinta Hill Property for Silver Tusk Mines Ltd. and Panther Mines Ltd., Feb. 21, 1981. Assessment report 062086.

(1981b): Interim report on the Tinta Hill Property for Silver Tusk Mines Ltd. and Panther Mines Ltd., Dec. 7, 1981. Assessment report 062119.

Certificate

I, SUSAN PATRICIA CRAIG, of the City of Whitehorse, in the Yukon Territory,
HEREBY CERTIFY:

1. That I am a geologist and that I visited the property in July, September and October 2006.
2. That I am a graduate of Lakehead University (M.Sc. Geology, 1991) and the University of Calgary (B.Sc., Geology, 1986).
3. That I am a registered Professional Geoscientist with the Association of Professional Engineers and Geoscientists of British Columbia.
4. That I have been engaged in mineral exploration and development on a full time basis for 15 years in the Yukon and British Columbia.
5. That I am a director of Northern Freegold Resources Ltd. which holds the Freegold Mountain Project.

SIGNED at Vancouver, BC this 4th day of January, 2007.



Susan Patricia Craig, P. Geo.

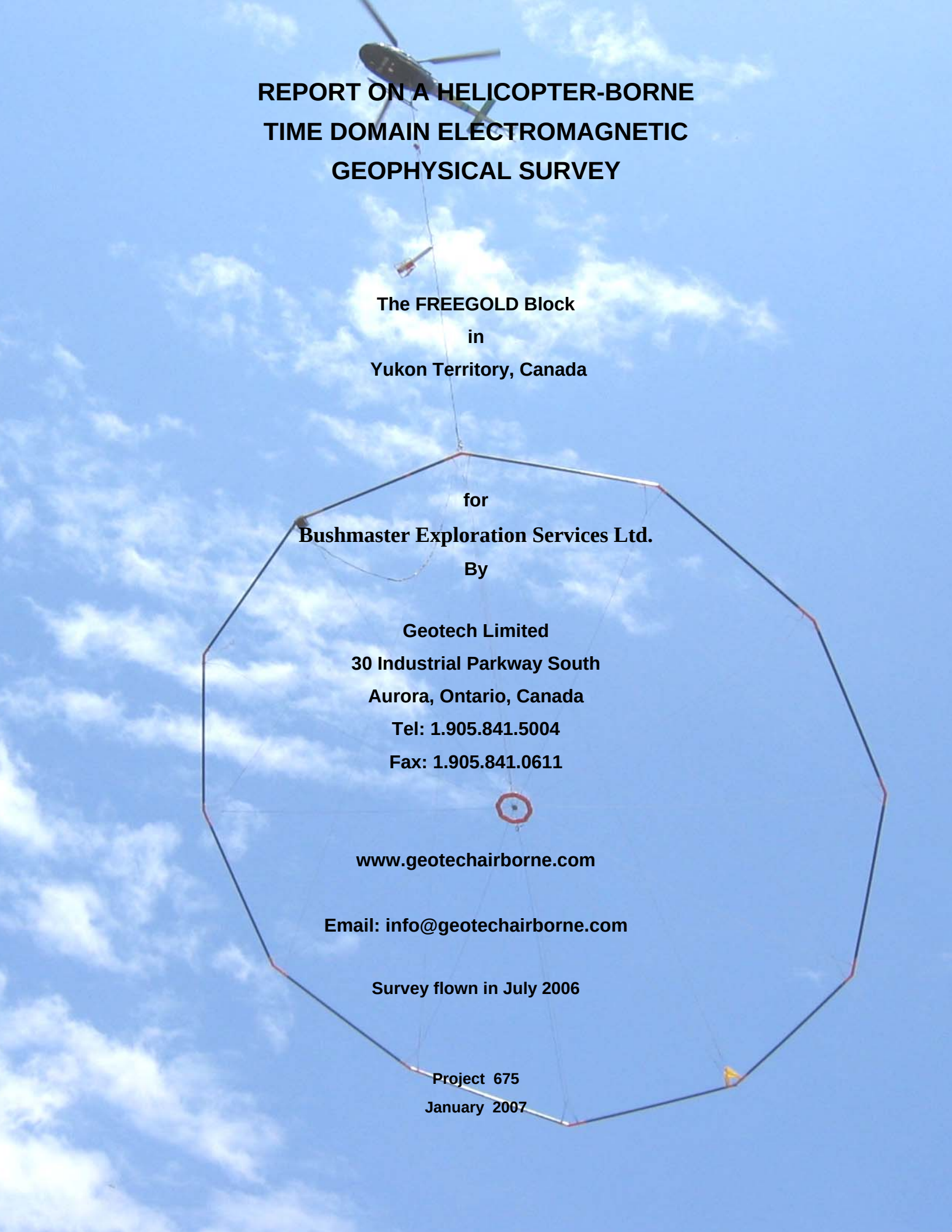
Statement of Costs

<i>Airborne Geophysical Survey by Geotech</i>	<i>\$212,000</i>
<i>Fuel for helicopter for survey</i>	<i>\$25,000</i>
<i>Total</i>	<i>\$237,000</i>

Flew over 736 claims – works out to \$322 per claim.

Appendix 1

Report on a Helicopter-Borne Time Domain Electromagnetic Geophysical Survey on the Freegold Block by Geotech Limited



REPORT ON A HELICOPTER-BORNE TIME DOMAIN ELECTROMAGNETIC GEOPHYSICAL SURVEY

**The FREEGOLD Block
in
Yukon Territory, Canada**

**for
Bushmaster Exploration Services Ltd.
By**

**Geotech Limited
30 Industrial Parkway South
Aurora, Ontario, Canada
Tel: 1.905.841.5004
Fax: 1.905.841.0611**

www.geotechairborne.com

Email: info@geotechairborne.com

Survey flown in July 2006

**Project 675
January 2007**

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REPORT ON A HELICOPTER-BORNE TIME DOMAIN ELECTROMAGNETIC SURVEY

Of the FREEGOLD Block, Yukon Territory, Canada

Executive Summary

During the period of July 9th to July 17th, 2006, Geotech Ltd. carried out a helicopter-borne geophysical survey for Bushmaster Exploration Services Ltd. over one block located in Yukon Territory, Canada, approximately 200 km north-north-west of Whitehorse, YT.

Principal geophysical sensors included a versatile time domain electromagnetic system (VTEM) and a cesium magnetometer. Ancillary equipment included a GPS navigation system and a radar altimeter. A total of 1661.2 line-km were flown.

In-field data processing involved quality control and compilation of data collected during the acquisition stage, using the in-field processing centre established at survey base. Preliminary and final data processing, including generation of final digital data products were done at the office of Geotech Ltd. in Aurora, Ontario.

The processed survey results are presented as total magnetic field grid and electromagnetic stacked profiles.

Digital data includes all electromagnetic and magnetic products plus positional, altitude and raw data.

1. INTRODUCTION

1.1 General Considerations

These services are the result of the Agreement made between Geotech Ltd. and Bushmaster Exploration Services Ltd., to perform a helicopter-borne geophysical survey over the Freegold block, located in Yukon Territory, Canada.

1661.2 line-km of geophysical data were acquired during the survey.

The survey block is as shown in Appendix A.

The crew was based in an exploration camp in Yukon Territory for the acquisition phase of the survey, as shown in Section 2 of this report.

The helicopter was obtained from the TransNorth Helicopters for the duration of the survey. Multiple fuel caches were arranged.

Survey flying was completed on July 18th, 2006. Preliminary data processing was carried out daily during the acquisition phase of the project. Final data presentation and data archiving was completed in the Aurora office of Geotech Ltd. in January 2007.

1.2. Survey and System Specifications

The survey block was flown at nominal traverse line spacing of 125 metres.

Tie lines were flown perpendicular to traverse lines at a line spacing of 1180 metres, as shown in the Section 2 of this report.

Where possible, the helicopter maintained a mean terrain clearance of 80 metres, which translated into an average height of 45 metres above ground for the bird-mounted VTEM system and 45 metres for the magnetic sensor.

The survey was flown using an Astar B2 helicopter, registration C-GTNU, operated by TransNorth Helicopters Limited. Details of the survey specifications may be found in Section 2 of this report.

1.3. Data Processing and Final Products

Data compilation and processing was carried out by the application of Geosoft OASIS Montaj and programs proprietary to Geotech Ltd.

Database, grid and maps of final products were presented to Bushmaster Exploration Services Ltd.

The survey report describes the procedures for data acquisition, processing, final image presentation and the specifications for the digital data set.

1.4. Topographic Relief

The survey block is located approximately half way between Whitehorse and Dawson City and is shown on the location maps (Appendix A).

Topographically, the block exhibited mountainous relief, with a range of elevations from approximately 1000 to 1360 metres ASL. A mountain ridge with higher elevations is found in the SE part of the block, while in the NW the relief is milder with a valley following the NE boundary and turning to NE approximately in half of the length of the block. Several streams are present in the area of interest, with a draining pattern joining into a main flow in the NE direction.

2. DATA ACQUISITION

2.1. Survey Area

The survey block (see location maps, Appendix A) and general flight specifications are as follows:

Survey areas	Line /Tie spacing (m)	Area	Line / Tie direction	Line number	Line KM
FREEGOLD	125	198.6 km. ²	N42E	1000 - 3570	1487.9
	1180		N57W	3900 - 3960	173.3

Table 1 - Survey block

Survey block boundary coordinates are shown in Appendix B.

2.2. Survey Operations

Date	Flights	Production	Block	Crew location	REMARK
09-Jul			Freegold	Freegold camp	2 ferry flights - arrival from Whitehorse
10-Jul	1, 2, 3	326.3	Freegold	Freegold camp	
11-Jul	4, 5, 6	128.9	Freegold	Freegold camp	
12-Jul	7, 8, 9	198.0	Freegold	Freegold camp	
13-Jul	10, 11	105.1	Freegold	Freegold camp	
14-Jul	12, 13,14	74.7	Freegold	Freegold camp	
15-Jul	15, 16, 17	177.3	Freegold	Freegold camp	
16-Jul	18, 19, 20, 21	219.2	Freegold	Freegold camp	
17-Jul	22,23,24,25,26	436.9	Freegold	Freegold camp	

Table 2 - Survey schedule

2.3. *Flight Specifications*

The nominal EM sensor terrain clearance was 45 m (EM bird height above ground, i.e. helicopter is maintained 80 m above ground). Nominal survey speed was 80 km/hour. The data recording rates of the data acquisition was 0.1 second for electromagnetics and magnetometer, 0.2 second for altimeter and GPS. This translates to a geophysical reading about every 2 metres along flight track. Navigation was assisted by a GPS receiver and data acquisition system, which reports GPS co-ordinates as latitude/longitude and directs the pilot over a pre-programmed survey grid.

The operator was responsible for monitoring of the system integrity. He also maintained a detailed flight log during the survey, tracking the times of the flight as well as any unusual geophysical or topographic feature.

On return of the aircrew to the base camp the survey data was transferred from a compact flash card (PCMCIA) to the data processing computer.

2.4. Aircraft and Equipment

2.4.1. Survey Aircraft

An Astar B2 helicopter, registration C-GTNU - owned and operated by Trans North Helicopters Ltd. was used for the survey. Installation of the geophysical and ancillary equipment was carried out by Geotech Ltd.

2.4.2. Electromagnetic System

The electromagnetic system was a Geotech Versatile Time Domain EM (VTEM) system. The layout of the two configurations used for this survey is as indicated in Figure 1 below.

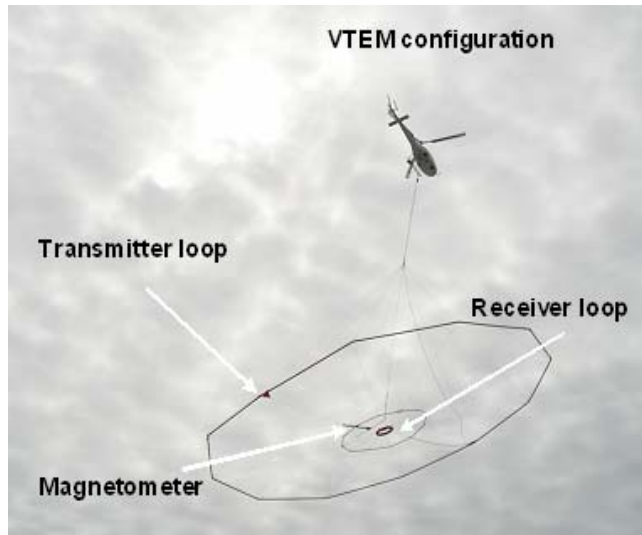


Figure 1 - VTEM Configuration

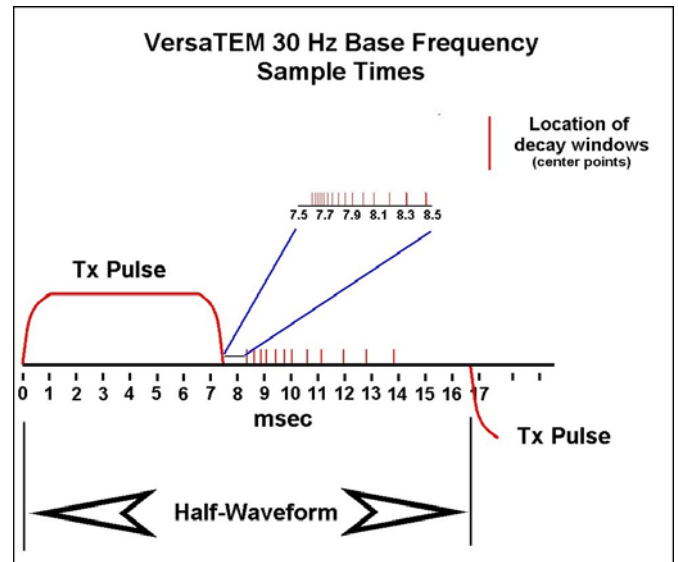


Figure 2 - VTEM sample times

Receiver and transmitter coils are concentric and Z-direction oriented.

The receiver decay recording scheme is shown diagrammatically in Figure 2.

Twenty-six measurement gates were used in the range from 130 μ s to 7540 μ s, as shown in the following table.

VTEM Decay Sampling scheme (Microseconds)			
Time gate	Start	End	Width
130	120	140	20
150	140	160	20
170	160	180	20
190	180	205	25
220	205	240	35
260	240	280	40
300	280	325	45
350	325	380	55
410	380	445	65
480	445	525	80
570	525	625	100
680	625	745	120
810	745	885	140
960	885	1045	160
1130	1045	1235	190
1340	1235	1470	235
1600	1470	1750	280
1900	1750	2070	320
2240	2070	2450	380
2660	2450	2920	470
3180	2920	3480	560
3780	3480	4120	640
4460	4120	4880	760
5300	4880	5820	940
6340	5820	6860	1040
7540	6860	8220	1360

Table 3 - VTEM decay sampling scheme

Transmitter coil diameter was 26 metres, the number of turns was 4.
Transmitter pulse repetition rate was 30 Hz.
Peak current was 167 A.
Duty cycle was 37%.
Peak dipole moment was 355,000 NIA.

Receiver coil diameter was 1.2 metre, the number of turns was 100.
Receiver effective area was 113 m²
Wave form – trapezoid.
Recording sampling rate was 10 samples per second.

The EM bird was towed 35 m below the helicopter.

2.4.3. Airborne magnetometer

The magnetic sensor utilized for the survey was a Geometrics optically pumped cesium vapour magnetic field sensor, mounted in a separate bird towed at the same altitude as the EM sensor. The sensitivity of the magnetic sensor is 0.02 nanoTesla (nT) at a sampling interval of 0.1 seconds. The magnetometer sends the measured magnetic field strength as nanoTeslas to the data acquisition system via the RS-232 port.

2.4.4. Ancillary Systems

2.4.4.1. Radar Altimeter

A Terra TRA 3000/TRI 40 radar altimeter was used to record terrain clearance. The antenna was mounted beneath the bubble of the helicopter cockpit.

2.4.4.2. GPS Navigation System

The navigation system used was a Geotech PC based navigation system utilizing a NovAtel's WAAS enable OEM4-G2-3151W GPS receiver, Geotech navigate software, a full screen display with controls in front of the pilot to direct the flight and an NovAtel GPS antenna mounted on the helicopter tail.

The co-ordinates of the block were set-up prior to the survey and the information was fed into the airborne navigation system.

2.4.4.3. Digital Acquisition System

A Geotech data acquisition system recorded the digital survey data on an internal compact flash card. Data is displayed on an LCD screen as traces to allow the operator to monitor the integrity of the system. Contents and update rates were as follows:

DATA TYPE	SAMPLING
TDEM	0.1 sec
Magnetometer	0.1 sec
GPS Position	0.2 sec
Radar Altimeter	0.2 sec

Table 4 - Sampling Rates

2.4.5. Base Station

A combine magnetometer/GPS base station was utilized on this project. A Geometrics Cesium vapour magnetometer was used as a magnetic sensor with a sensitivity of 0.001 nT. The base station was recording the magnetic field together with the GPS time at 1 Hz on a base station computer. The base station magnetometer sensor was installed away from electric transmission lines and moving ferrous objects such as motor vehicles. The magnetometer base station's data was backed-up to the data processing computer at the end of each survey day.

3. PERSONNEL

The following Geotech Ltd. personnel were involved in the project.

Field

Crew chiefs / Operators:	Duncan Wilson Calin Cosma Vagner Alexio
--------------------------	---

The survey pilot and the mechanic engineer were employed directly by the helicopter operator – Gateway Helicopters.

Pilots:	Alan Stannard Steve Shaw Stephen Soubliere
Mechanical Engineer:	Margo Hager

Office

Data Processing:	Harish Kumar
Data Processing / Reporting:	George Lev
Data Technician	Maria Jagodkin

Data acquisition and processing phases were carried out under the supervision of Andrei Bagrianski, Surveys Manager. Overall management of the project was undertaken by Edward Morrison, President, Geotech Ltd.

4. DATA PROCESSING AND PRESENTATION

4.1. *Flight Path*

The flight path, recorded by the acquisition program as WGS 84 latitude/longitude, was converted into the UTM coordinate system in Oasis Montaj.

The flight path was drawn using linear interpolation between x, y positions from the navigation system. Positions are updated every second and expressed as UTM eastings (x) and UTM northings (y).

4.2. *Electromagnetic Data*

A three stage digital filtering process was used to reject major spheric events and to reduce system noise. Local spheric activity can produce sharp, large amplitude events that cannot be removed by conventional filtering procedures. Smoothing or stacking will reduce their amplitude but leave a broader residual response that can be confused with geological phenomena. To avoid this possibility, a computer algorithm searches out and rejects the major spheric events. The filter used was a 16 point non-linear filter.

The signal to noise ratio was further improved by the application of a low pass linear digital filter. This filter has zero phase shift which prevents any lag or peak displacement from occurring, and it suppresses only variations with a wavelength less than about 1 second or 20 metres. This filter is a symmetrical 1 sec linear filter.

The results are presented as stacked profiles of EM voltages for the gate times, in logarithmic scale.

Generalized modeling results of the VTEM system, written by Geophysicist Roger Barlow, are shown in Appendix C.

The VTEM output voltage of the receiver coil is shown in Appendix D.

4.3. Magnetic Data

The processing of the magnetic data involved the correction for diurnal variations by using the digitally recorded ground base station magnetic values. The base station magnetometer data was edited and merged into the Geosoft GDB database on a daily basis. The aeromagnetic data was corrected for diurnal variations by subtracting the observed magnetic base station deviations.

Tie line levelling was carried out by adjusting intersection points along the traverse lines. A micro-levelling procedure was then applied. This technique is designed to remove persistent low-amplitude components of flight-line noise remaining after tie line levelling.

The corrected magnetic data was interpolated between survey lines using a random point gridding method to yield x-y grid values for a standard grid cell size of approximately 0.2 cm at the mapping scale. The Minimum Curvature algorithm was used to interpolate values onto a rectangular regular spaced grid.

5. DELIVERABLES

5.1. *Survey Report*

The survey report describes the data acquisition, processing, and final presentation of the survey results.

The survey report is provided in two paper copies and digitally in PDF format.

5.2. *Maps*

Final maps were produced at a scale of 1: 50,000. The coordinate/projection system used was the WGS84, UTM zone 8 north. All maps show the flight path trace. Latitude and longitude are also noted on maps.

The following maps are presented to Bushmaster Exploration Services Ltd. on paper as results of the helicopter-borne geophysical survey carried out over the FREEGOLD block.

- Total Magnetic Field contours and colour images
- Logarithmic scale VTEM profiles, Time Gates 0.22 - 6.34 ms

5.3. *Digital Data*

There are three (3) main directories,

Data contains a database, grid and maps, as described below.

Report contains a copy of the report and appendixes in PDF format.

VTEM_fp_GoogleEarth

contains a kmz file containing flightpath of the Freegold Property. Free version of Google Earth software can be downloaded from, <http://earth.google.com/download-earth.html>

- Database in Geosoft GDB format,
675freegold.gdb containing the following channels:

X:	X positional data (metres – WGS84, utm zone 8 north)
Y:	Y positional data (metres – WGS84, utm zone 8 north)
Z:	GPS antenna elevation (metres - ASL) (on the tail of the helicopter)
Gtime1:	GPS time (seconds of the day)
Radar:	Helicopter terrain clearance from radar altimeter (metres - AGL)
DEM:	Digital elevation model (metres)
Mag1:	Raw Total Magnetic field data (nT)
Basemag:	Base station magnetic data (nT)
Mag2:	Total Magnetic field base station corrected data (nT)
Mag3:	Leveled Total Magnetic field data (nT)
C130f:	Raw 130 microsecond time channel (pV/A/m ⁴)
C150f:	Raw 150 microsecond time channel (pV/A/m ⁴)
C170f:	Raw 170 microsecond time channel (pV/A/m ⁴)
C190f:	Raw 190 microsecond time channel (pV/A/m ⁴)
C220f:	Raw 220 microsecond time channel (pV/A/m ⁴)
C260f:	Raw 260 microsecond time channel (pV/A/m ⁴)
C300f:	Raw 300 microsecond time channel (pV/A/m ⁴)
C350f:	Raw 350 microsecond time channel (pV/A/m ⁴)
C410f:	Raw 410 microsecond time channel (pV/A/m ⁴)
C480f:	Raw 480 microsecond time channel (pV/A/m ⁴)
C570f:	Raw 570 microsecond time channel (pV/A/m ⁴)
C680f:	Raw 680 microsecond time channel (pV/A/m ⁴)
C810f:	Raw 810 microsecond time channel (pV/A/m ⁴)
C960f:	Raw 960 microsecond time channel (pV/A/m ⁴)
C1130f:	Raw 1130 microsecond time channel (pV/A/m ⁴)
C1340f:	Raw 1340 microsecond time channel (pV/A/m ⁴)
C1600f:	Raw 1600 microsecond time channel (pV/A/m ⁴)
C1900f:	Raw 1900 microsecond time channel (pV/A/m ⁴)
C2240f:	Raw 2240 microsecond time channel (pV/A/m ⁴)
C2660f:	Raw 2660 microsecond time channel (pV/A/m ⁴)
C3180f:	Raw 3180 microsecond time channel (pV/A/m ⁴)
C3780f:	Raw 3780 microsecond time channel (pV/A/m ⁴)
C4460f:	Raw 4460 microsecond time channel (pV/A/m ⁴)
C5300f:	Raw 5300 microsecond time channel (pV/A/m ⁴)
C6340f:	Raw 6340 microsecond time channel (pV/A/m ⁴)
C7540f:	Raw 7540 microsecond time channel (pV/A/m ⁴)
PLinef:	Power line monitor (linear trend removed)

- Grids in Geosoft GRD format, as follow,

675freegold_magfin: Total Magnetic field (nT)

A Geosoft .GRD file has a .GI metadata file associated with it, containing grid projection information.

Map scale 1:50,000, 20 m grid cell size

- Maps in Geosoft MAP format, as follow,

675freegold_magfin: Total Magnetic Field image and contours

675freegold_EM-LP: Logarithmic scale profiles, Time Gates 0.22 – 6.34 ms

- Maps in ArcView SHP format, as follow,

675freegold_Magfin: Total Magnetic Field image and contours

675freegold_EM-LP: Logarithmic scale profiles, Time Gates 0.22 – 6.34 ms

- ASCII file VTEM_WaveForm.xyz in Geosoft format containing the following channel:

Volt: output voltage of the receiver coil
(volts, sampling rate 20 microseconds)

- A *readme.txt* file describing the content of digital data, as described above.

6. CONCLUSIONS

A versatile time domain electromagnetic helicopter-borne geophysical survey has been completed over one block located approximately 200 km north-north-west of Whitehorse, in Yukon Territory, Canada.

Total survey line coverage is 1661.2 line kilometres. The principal sensors included a Time Domain EM system and a magnetometer. Results have been presented as colour contour maps and stacked profiles.

Final data processing at the office of Geotech Limited in Aurora, Ontario was carried out under the supervision of Andrei Bagrianski, Data Processing Manager.

Respectfully submitted,

Marta Orta
on behalf of

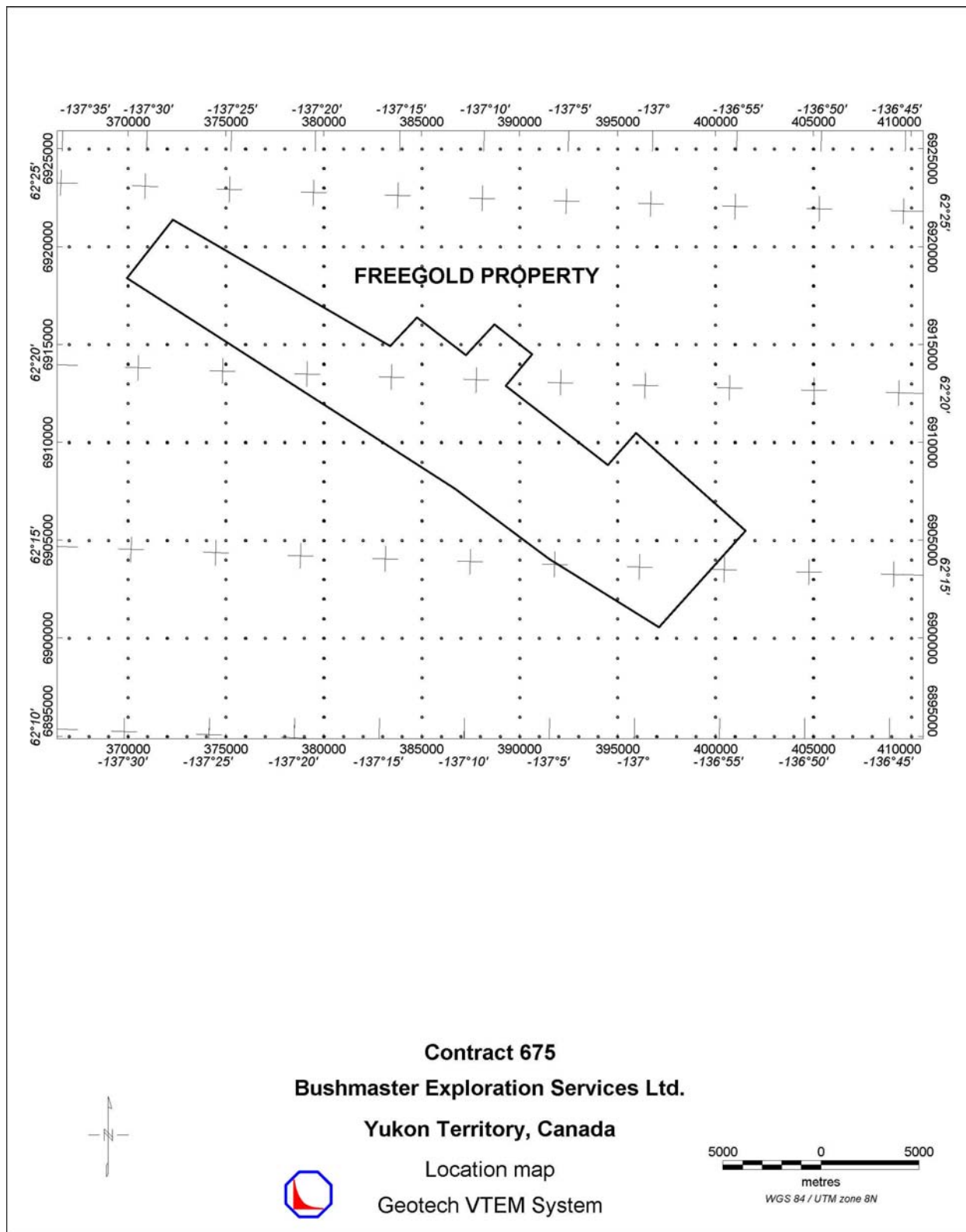
George Lev
Geotech Limited
January 05, 2007



APPENDIX A

SURVEY BLOCK LOCATION MAP





APPENDIX B
SURVEY BLOCK COORDINATES

(WGS 84, UTM zone 8N)

FREEGOLD	
370000	6918400
372300	6921350
383400	6914870
384750	6916350
387264	6914405
388700	6916000
390600	6914500
389226	6912885
394500	6908800
395950	6910440
401500	6905500
397100	6900600
391500	6904100
386750	6907650

APPENDIX C

General Modeling Results of the VTEM System

GENERALIZED MODELING RESULTS OF THE VTEM SYSTEM

Introduction

The VTEM system is based on a concentric or central loop design, whereby, the receiver is positioned at the centre of a 26.1 meters diameter transmitter loop that produces a dipole moment up to 625,000 NIA at peak current. The wave form is a bi-polar, modified square wave with a turn-on and turn-off at each end. With a base frequency of 30 Hz, the duration of each pulse is approximately 7.5 milliseconds followed by an off time where no primary field is present.

During turn-on and turn-off, a time varying field is produced (dB/dt) and an electro-motive force (emf) is created as a finite impulse response. A current ring around the transmitter loop moves outward and downward as time progresses. When conductive rocks and mineralization are encountered, a secondary field is created by mutual induction and measured by the receiver at the centre of the transmitter loop.

Measurements are made during the off-time, when only the secondary field (representing the conductive targets encountered in the ground) is present.

Efficient modeling of the results can be carried out on regularly shaped geometries, thus yielding close approximations to the parameters of the measured targets. The following is a description of a series of common models made for the purpose of promoting a general understanding of the measured results.

Variation of Plate Depth

Geometries represented by plates of different strike length, depth extent, dip, plunge and depth below surface can be varied with characteristic parameters like conductance of the target, conductance of the host and conductivity/thickness and thickness of the overburden layer.

Diagrammatic models for a vertical plate are shown in figures A and G at two different depths, all other parameters remaining constant. With this transmitter-receiver geometry, the classic **M** shaped response is generated. Figure A shows a plate where the top is near surface. Here, amplitudes of the dual peaks are higher and symmetrical with the zero centre positioned directly above the plate. Most important is the separation distance of the peaks. This distance is small when the plate is near surface and widens with a linear relationship as the plate (depth to top) increases. Figure G shows a much deeper plate where the separation distance of the peaks is much wider and the amplitudes of the channels have decreased.

Variation of Plate Dip

As the plate dips and departs from the vertical position, the peaks become asymmetrical. Figure B shows a near surface plate dipping 80°. Note that the direction of dip is toward the high shoulder of the response and the top of the plate remains under the centre minimum.

As the dip increases, the aspect ratio (Min/Max) decreases and this aspect ratio can be used as an empirical guide to dip angles from near 90° to about 30°. The method is not sensitive enough where dips are less than about 30°. Figure E shows a plate dipping 45° and, at this angle, the

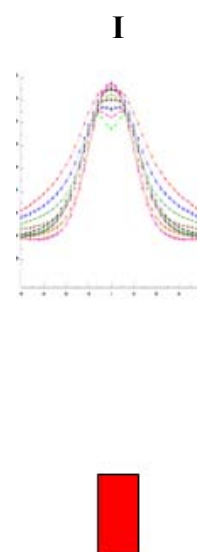
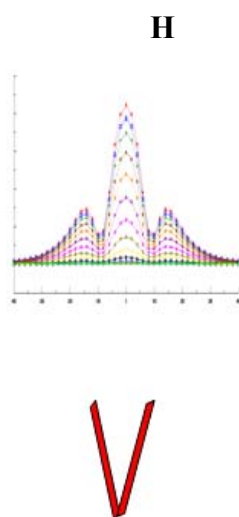
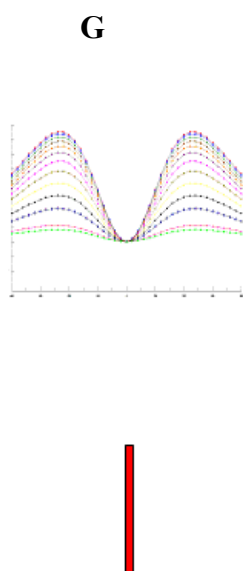
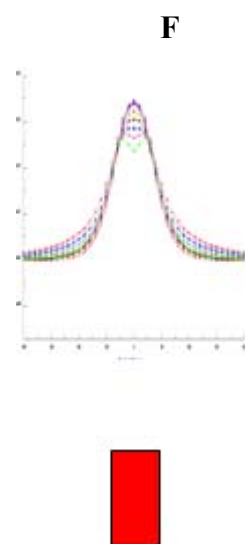
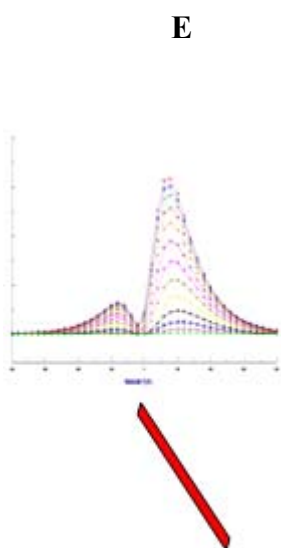
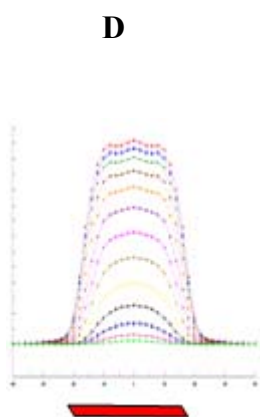
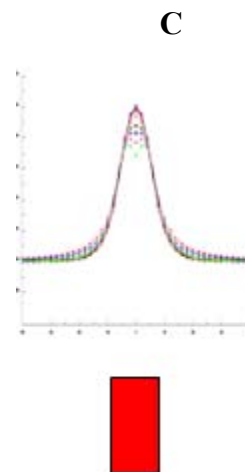
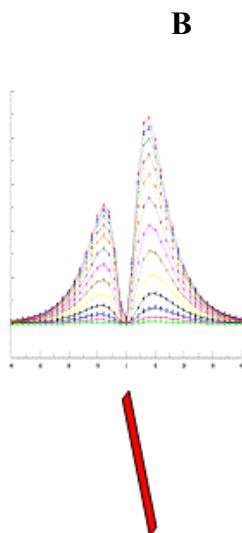
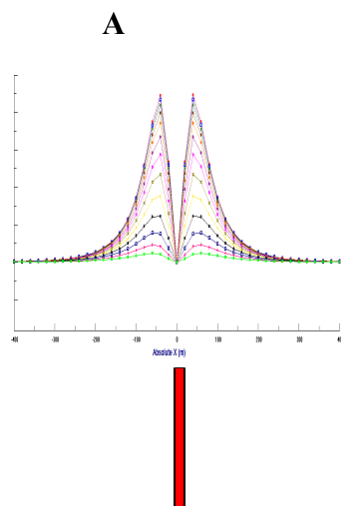
minimum shoulder starts to vanish. In Figure D, a flat lying plate is shown, relatively near surface. Note that the twin peak anomaly has been replaced by a symmetrical shape with large, bell shaped, channel amplitudes which decay relative to the conductance of the plate.

Figure H shows a special case where two plates are positioned to represent a synclinal structure. Note that the main characteristic to remember is the centre amplitudes are higher (approximately double) compared to the high shoulder of a single plate. This model is very representative of tightly folded formations where the conductors were once flat lying.

Variation of Prism Depth

Finally, with prism models, another algorithm is required to represent current on the plate. A plate model is considered to be infinitely thin with respect to thickness and incapable of representing the current in the thickness dimension. A prism model is constructed to deal with this problem, thereby, representing the thickness of the body more accurately.

Figures C, F and I show the same prism at increasing depths. Aside from an expected decrease in amplitude, the side lobes of the anomaly show a widening with deeper prism depths of the bell shaped early time channels.



General Modeling Concepts

A set of models has been produced for the Geotech VTEM® system with explanation notes (see models A to I above). The reader is encouraged to review these models, so as to get a general understanding of the responses as they apply to survey results. While these models do not begin to cover all possibilities, they give a general perspective on the simple and most commonly encountered anomalies.

When producing these models, a few key points were observed and are worth noting as follows:

- For near vertical and vertical plate models, the top of the conductor is always located directly under the centre low point between the two shoulders in the classic **M** shaped response.
- As the plate is positioned at an increasing depth to the top, the shoulders of the **M** shaped response, have a greater separation distance.
- When faced with choosing between a flat lying plate and a prism model to represent the target (broad response) some ambiguity is present and caution should be exercised.
- With the concentric loop system and Z-component receiver coil, virtually all types of conductors and most geometries are most always well coupled and a response is generated (see model H). Only concentric loop systems can map this type of target.

The modelling program used to generate the responses was prepared by PetRos Eikon Inc. and is one of a very few that can model a wide range of targets in a conductive half space.

General Interpretation Principals

Magnetics

The total magnetic intensity responses reflect major changes in the magnetite and/or other magnetic minerals content in the underlying rocks and unconsolidated overburden. Precambrian rocks have often been subjected to intense heat and pressure during structural and metamorphic events in their history. Original signatures imprinted on these rocks at the time of formation have, in most cases, been modified, resulting in low magnetic susceptibility values.

The amplitude of magnetic anomalies, relative to the regional background, helps to assist in identifying specific magnetic and non-magnetic rock units (and conductors) related to, for example, mafic flows, mafic to ultramafic intrusives, felsic intrusives, felsic volcanics and/or sediments etc. Obviously, several geological sources can produce the same magnetic response. These ambiguities can be reduced considerably if basic geological information on the area is available to the geophysical interpreter.

In addition to simple amplitude variations, the shape of the response expressed in the wave length and the symmetry or asymmetry, is used to estimate the depth, geometric parameters and magnetization of the anomaly. For example, long narrow magnetic linears usually reflect mafic flows or intrusive dyke features. Large areas with complex magnetic patterns may be produced by intrusive bodies with significant magnetization, flat lying magnetic sills or sedimentary iron formation. Local isolated circular magnetic patterns often represent plug-like igneous intrusives such as kimberlites, pegmatites or volcanic vent areas.

Because the total magnetic intensity (TMI) responses may represent two or more closely spaced bodies within a response, the second derivative of the TMI response may be helpful for distinguishing these complexities. The second derivative is most useful in mapping near surface linears and other subtle magnetic structures that are partially masked by nearby higher amplitude magnetic features. The broad zones of higher magnetic amplitude, however, are severely attenuated in the vertical derivative results. These higher amplitude zones reflect rock units having strong magnetic susceptibility signatures. For this reason, both the TMI and the second derivative maps should be evaluated together.

Theoretically, the second derivative, zero contour or colour delineates the contacts or limits of large sources with near vertical dip and shallow depth to the top. The vertical gradient map also aids in determining contact zones between rocks with a susceptibility contrast, however, different, more complicated rules of thumb apply.

Concentric Loop EM Systems

Concentric systems with horizontal transmitter and receiver antennae produce much larger responses for flat lying conductors as contrasted with vertical plate-like conductors. The amount of current developing on the flat upper surface of targets having a substantial area in this dimension, are the direct result of the effective coupling angle, between the primary magnetic field and the flat surface area. One therefore, must not compare the amplitude/conductance of responses generated from flat lying bodies with those derived from near vertical plates; their ratios will be quite different for similar conductances.

Determining dip angle is very accurate for plates with dip angles greater than 30°. For angles less than 30° to 0°, the sensitivity is low and dips can not be distinguished accurately in the presence of normal survey noise levels.

A plate like body that has near vertical position will display a two shoulder, classic **M** shaped response with a distinctive separation distance between peaks for a given depth to top.

It is sometimes difficult to distinguish between responses associated with the edge effects of flat lying conductors and poorly conductive bedrock conductors. Poorly conductive bedrock conductors having low dip angles will also exhibit responses that may be interpreted as surficial overburden conductors. In some situations, the conductive response has line to line continuity and some magnetic correlation providing possible evidence that the response is related to an actual bedrock source.

The EM interpretation process used, places considerable emphasis on determining an understanding of the general conductive patterns in the area of interest. Each area has different characteristics and these can effectively guide the detailed process used.

The first stage is to determine which time gates are most descriptive of the overall conductance patterns. Maps of the time gates that represent the range of responses can be very informative.

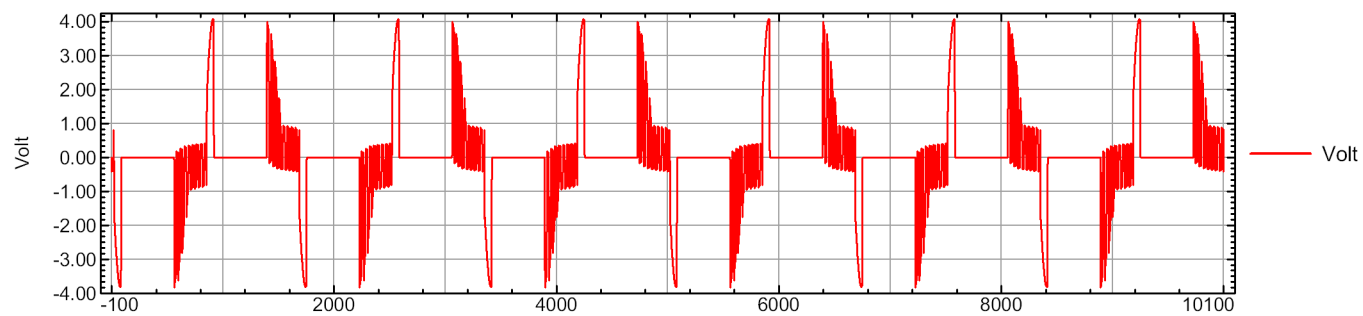
Next, stacking the relevant channels as profiles on the flight path together with the second vertical derivative of the TMI is very helpful in revealing correlations between the EM and Magnetics.

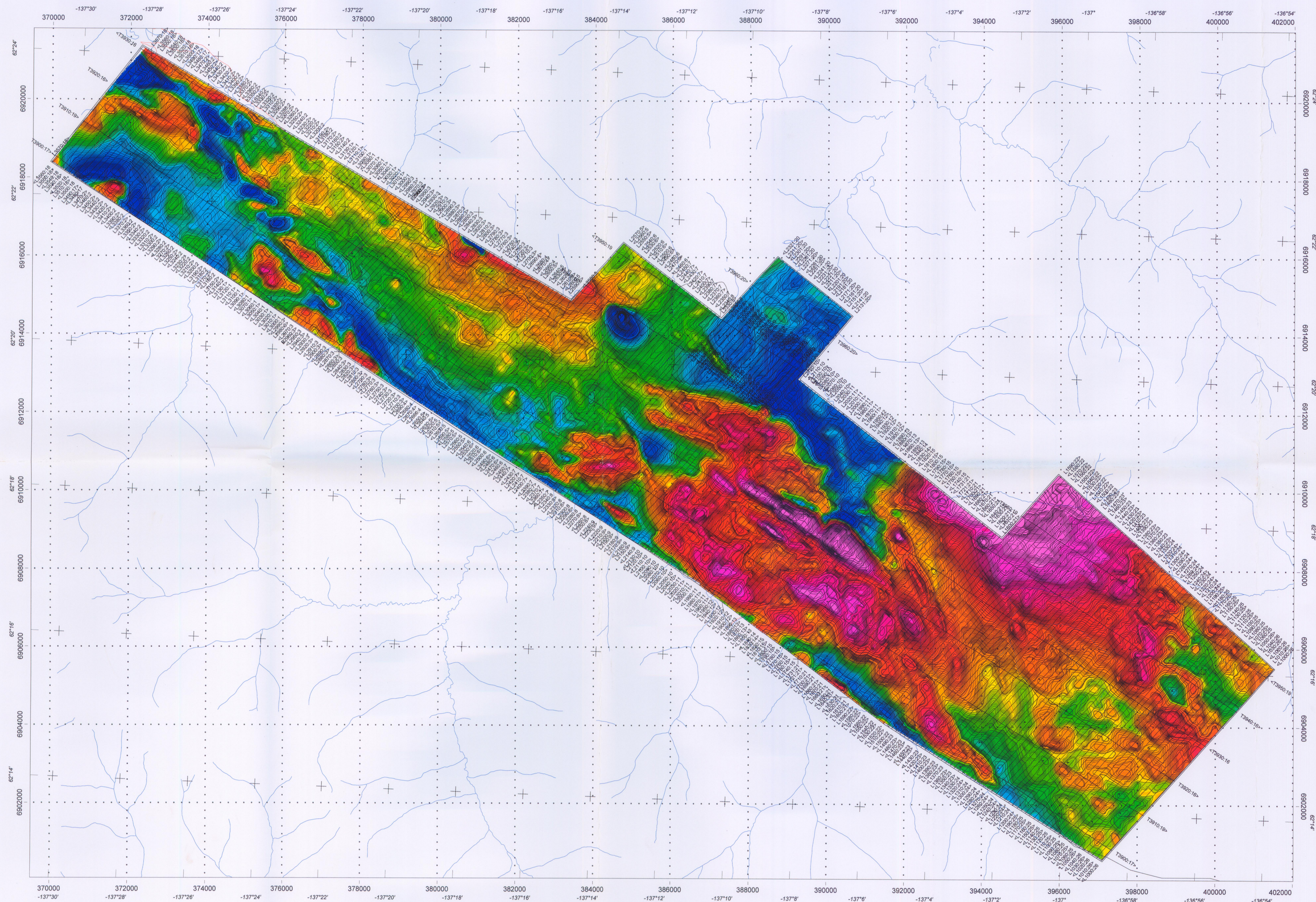
Next, key lines can be profiled as single lines to emphasize specific characteristics of a conductor or the relationship of one conductor to another on the same line. Resistivity Depth sections can be constructed to show the relationship of conductive overburden or conductive bedrock with the conductive anomaly.

APPENDIX D
VTEM WAVEFORM



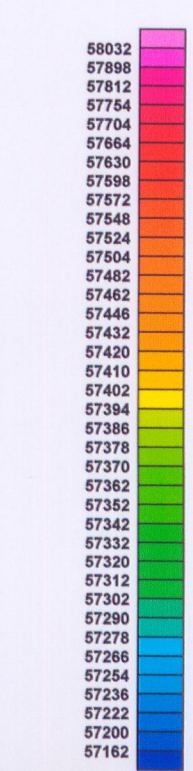
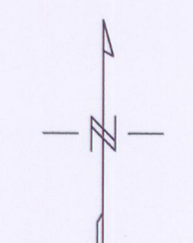
VTEM Waveform - July 2006





Survey Specifications:
Dates Flown: July 08-July 17 2006
Survey Base: FREEGOLD Exploration Camp
Aircraft: Astar 350-52 helicopter, Registration C-GTNU
Nominal Flight Line Spacing: 125 metres
Nominal Flight Line Direction: N42°E
Nominal Tie Line Spacing: 1180 metres
Nominal Tie Line Direction: N57°W
Nominal helicopter terrain clearance: 80 metres
EM Loop is 35 metres under helicopter
Magnetic sensor is 35 metres under helicopter

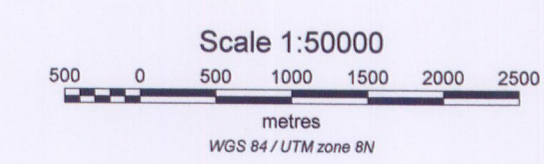
Instruments:
Geotech Time Domain Electromagnetic System (VTEM)
with concentric Rx/Tx geometry
Transmitter Loop Diameter 26 m, Base Frequency 30 Hz
Dipole Moment 355,000 N/A
Transmitter Wave Form: Trapezoid, Pulse Width 7.5 ms
Geometrics Optically-pumped,
High Sensitivity Cesium Magnetometer
Magnetometer Resolution 0.02 nT at 10 samples/sec



Magnetic field (nT)

Contour intervals:
2 nT
10 nT
50 nT

Legend:
Main Roads
Roads
Lakes, Rivers

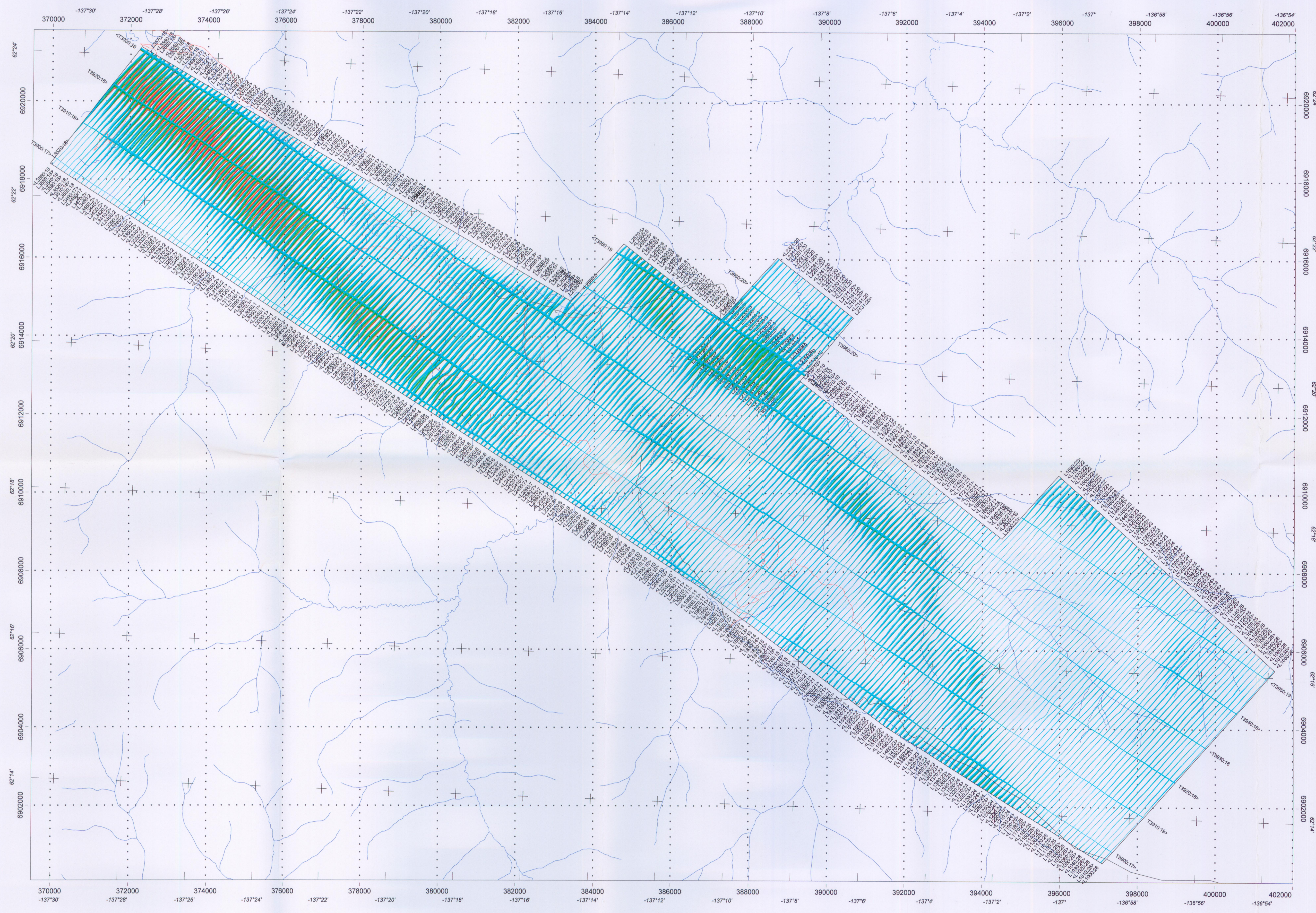


Bushmaster Exploration Services Ltd.
Block FREEGOLD
Yukon Territory

Geotech VTEM System
Total Magnetic Field Map

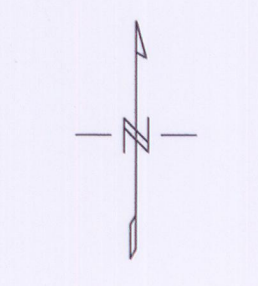
Flown and processed by Geotech Ltd.
30 Industrial Parkway South
Aurora, Ontario, Canada
www.geotechairborne.com

December 2006



Survey Specifications:
Dates Flown: July 09- July 17 2006
Survey Base: FREEGOLD Exploration Camp
Aircraft: Astar 350-B2 helicopter, Registration C-GTNU
Nominal Flight Line Spacing: 125 metres
Nominal Flight Line Directions: N42°E
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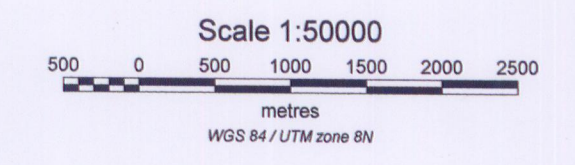
Instruments:
Geotech Time Domain Electromagnetic System (VTEM) with concentric Rx/Tx geometry
Transmitter Loop Diameter 26 m, Base Frequency 30 Hz
Dipole Moment 355,000 A/m²
Transmitter Wave Form: Trapezoid, Pulse Width 7.5 ms
Geometrics Optically-pumped, High Sensitivity Cesium Magnetometer
Magnetometer Resolution 0.02 nT at 10 samples/sec



Profiles scale 1 mm = 0.2 pV/A/m⁴
(Linear between +/- 0.2 pV/A/m⁴
logarithmic above 0.2 pV/A/m⁴)

- 0.22 ms
- 0.26 ms
- 0.30 ms
- 0.35 ms
- 0.41 ms
- 0.48 ms
- 0.57 ms
- 0.68 ms
- 0.81 ms
- 0.96 ms
- 1.13 ms
- 1.34 ms
- 1.60 ms
- 1.90 ms
- 2.24 ms
- 2.66 ms
- 3.18 ms
- 3.78 ms
- 4.46 ms
- 5.30 ms
- 6.34 ms

Legend:
Main Roads
Roads
Lakes, Rivers



Bushmaster Exploration Services Ltd.
Block FREEGOLD
Yukon Territory

Geotech VTEM System
Logarithmic scale VTEM Profiles
Time Gates 0.22 - 6.34 ms

Flown and processed by Geotech Ltd.
30 Industrial Parkway South,
Aurora, Ontario, Canada L4G 3W2
www.geotechairborne.com

January 2007