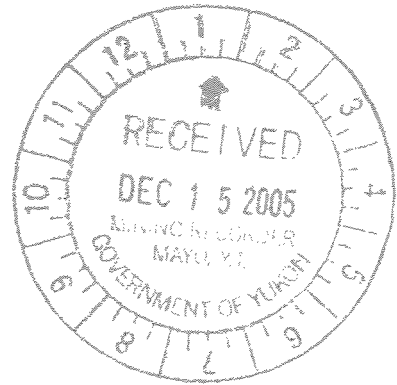


094968
094967



Assessment Report

Dirkeno Group

Grant Nos. YC32218 to YC32228
(Son 1 to 3 and Mom 1 to 8 mineral claims)

Mayo Mining Division, Yukon Territory

Latitude ^{62°45'} 55.50 N Longitude ^{135°10'} 135.10 W

NTS Map Sheet 105M-14

By

D.N. Moraal

Owner and Operator

August 2005

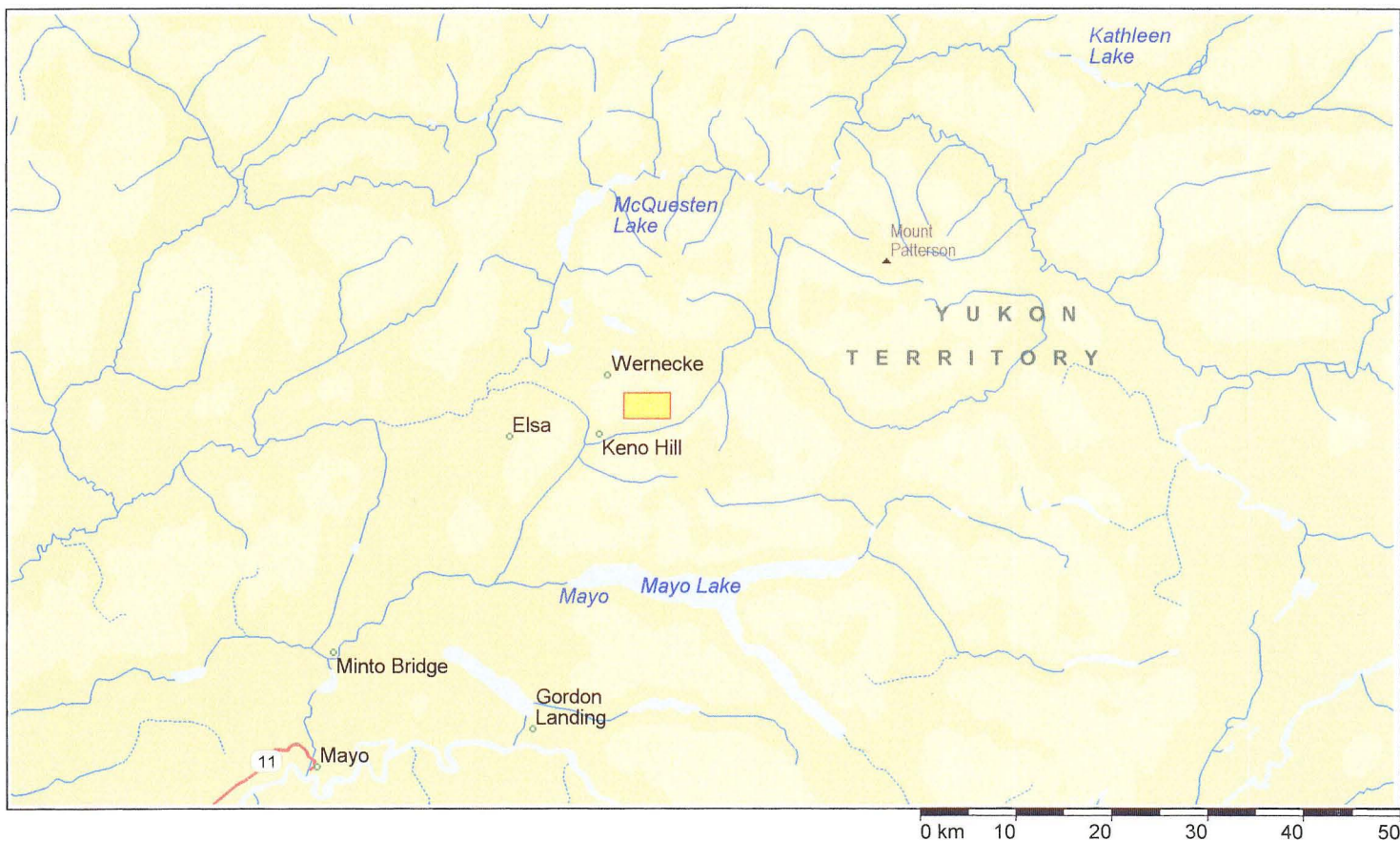
Dirkeno Group

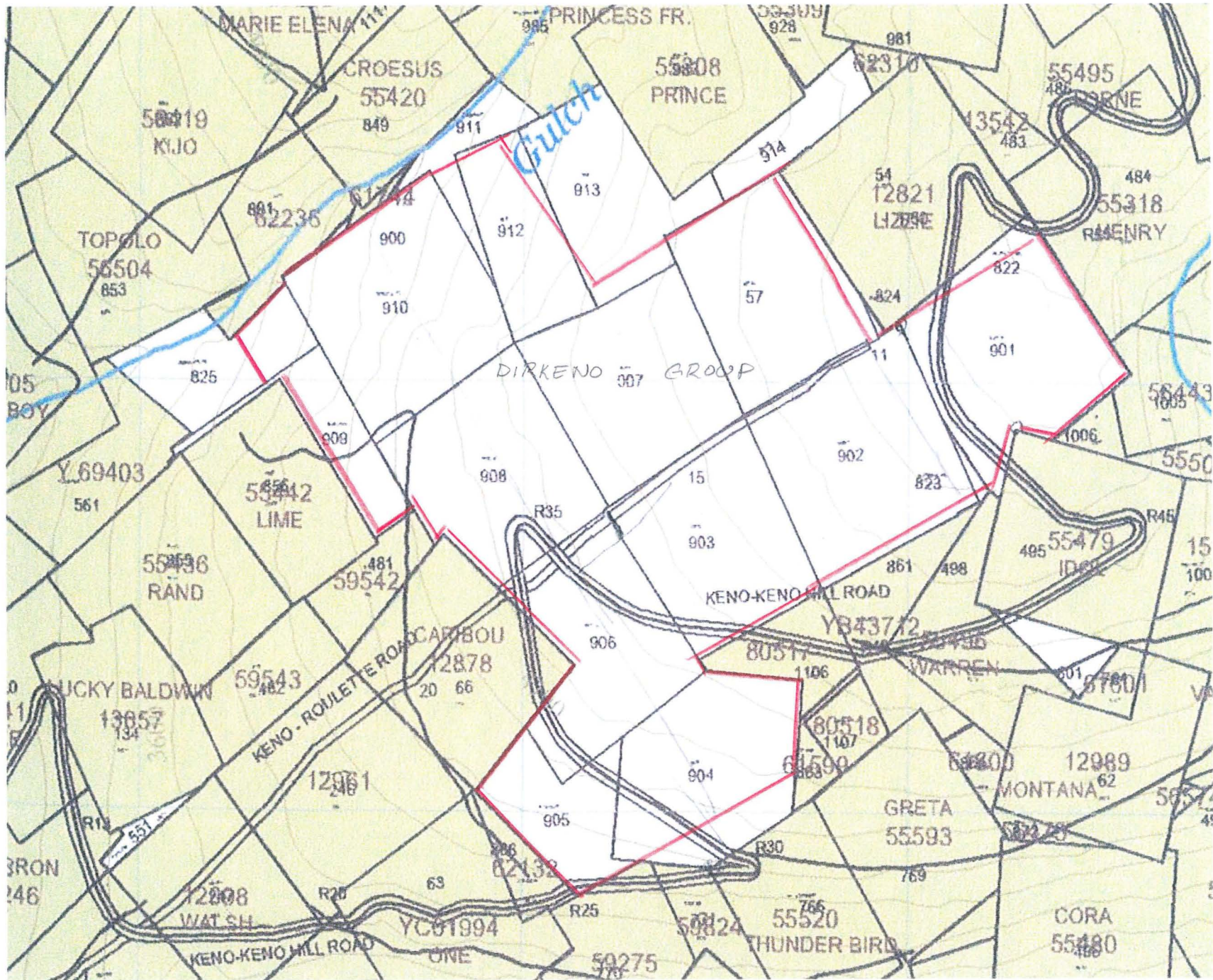
Table of Contents	2
I Location Map	
II Index map	4
III Bibliography	5
Introduction	6
Property location and access	6
GPS positions of claim posts	6
Ownership	7
History	7
Work described in this report	7
Prospecting and Geology	7
Legend	9
Grid	10
Geophysical surveys	10
Geochemical sampling	11
Summary	11
Conclusions and recommendations	12
Table of costs	13
Author's qualifications	14

wernecke

Populated Places

- Major City (1,000,000+)
- City (500,000 - 999,999)
- Minor City (100,000 - 499,999)
- Town (20,000 - 99,999)
- Other Place
- ● ○ □ ◦ National Capital
- ● ○ □ ◦ Other Capital





Bibliography

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Saydam and Boniwell, 1984 VLF Electromagnetic method.
A geophysical handbook for geologists

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Whittles, A.B. 1967, Prospecting with radio frequency EM-16 in Mountainous regions. Western Miner.

Introduction

The Keno hill area is an historic mining camp dating back to the early 1900s when prospectors spread out after the Klondike gold rush settled into its production phase. Since then and up to 1988 when the mines shut down due to the drop in silver prices, over 9 billion grams of silver were extracted from veins on Galena Hill, Keno Hill and Sourdough Hill. Most of the production was from relatively small, but very rich silver-lead veins. The claims Keno Hill have been held for many years and only recently tenure on some of these claims has lapsed. Some of this ground has been staked as part of an exploration programme designed to locate silver-lead veins that may have been missed by previous operators.

Location , Access, and Topography

The Dirkeno Group consists of 11 claims situated on the west facing slope of Keno Hill, at an average altitude of 1350 m. Access is via all weather paved road to Mayo, a distance of 404 Km from the city of Whitehorse, thence via the gravel all season road to historical Keno City, 60 Km to the north. From there, the visitor takes the seasonal Keno-Keno Hill road a distance of 4.0 km to the claims. The Dirkeno Group of claims straddles this road.

The claim group just below the tree line, and is covered by dense brush in the form of dwarf birch and willows. Parts are covered by sub-alpine fir and occasionally spruce trees. Elevations run from 1200 m at the south end of the property to almost 1500 m at the NE corner of the claim group. Access is excellent from the seasonal but well used Keno-Keno Hill road, locally called the Signpost Road.

The Dirkeno claim group is almost entirely covered in overburden, consisting of varying depths of rocks and clay soil and slabs country rock which have been moved to their present location the McConnell glaciation (25000 to 12000 years ago).

GPS positions of the claim posts

All positions reported in this table are NAD 83, Zone 8

Post 1 of Son 1 and 2	488102mE-7088728mN
Post 1 of Son 3	487900mE-7089071mN
Post 2 of Son3	487645mE-7089432mN
Post 1 of Mom 1 and 2	487510mE-7088017mN
Post 1 if Mom 3 and 4	487292mE-7088386mN
Post 1 of Mom 5 and 6	487041mE-7088703mN
Post 1 of Mom 7 and 8	486817mE-7089078mN
Post 2 of Mom 7 and 8	486641mE-7089431mN

GPS positions of only Post 1 of each claim is reported since post 2 of the previous claim is at the same location, the exceptions being post 2 of Mom 7 and 8 and post 2 of Son 3

Ownership

The Dirkeno group of claims is wholly owned and operated by D.N. Moraal, Box 75, Tagish, Yukon. The claims are in good standing and have a recording date of 23 August 2004

History and previous work

The Dirkeno Group of claims appears to have been inactive for a considerable length of time. There is little evidence of serious exploration work on the property except some bulldozer trenches around the periphery. Weathered pickets indicate some level of formal exploration work in the past. The claims cover most of a series of expired grants and leases, most surveyed in the 1950's. Minor amounts of mineralization in the form of float, and thin veins of manganese-limonite-galena found in one of these trenches are the only visible indications observed. Most of the trenches failed to reach bedrock and were ended in overburden.

Work described in this report

Work consisted of prospecting and geological mapping of the property, establishing a series of grid lines, conducting a VLF survey over the gridlines, and collecting soil samples over selected lines that showed the best VLF anomalies. The location posts were surveyed in with GPS.

Work was carried out between the 25th of July and the 23th of August 2005

Prospecting and Geology

The rocks in the area are mainly of sedimentary origin. They have been described elsewhere as of Precambrian or early Palaeozoic in age and consist of various forms of schist, phyllite, and quartzite with argillite and slates completing the sedimentary package. Cretaceous greenstone lenses and sills occur through out the area and subcrop on the west side of the claims. The cliffs above Ericsson Gulch which bounds the claims to the north consist mainly of pale green sericite and quartzite.

Three main fault types are the targets of main interest, as they have traditionally carried the ore bodies of Keno Hill. These are the usually East-West trending Longitudinal faults, the North to North east trending Transverse faults, and the post ore North West trending faults which normally do not carry significant mineralization.

Three important longitudinal faults appear to cross the property. These are from north to south, the #6 vein fault, The Comstock-Porcupine vein fault, and the Hogan vein fault at the south end of the group. The #6 vein fault is the most important vein fault from the standpoint of past producers on Keno Hill. Transverse vein faults off this longitudinal fault hosted some of the richer ore shoots which were mined in the early days.


The claims are estimated to be 95 percent covered with overburden of varying depths. Old trenches are from .5 to 4 meters deep, and the deepest are still in overburden. The glacial nature of the clay and transported rock causes many problems for the explorationist. Primarily, the scant amount of outcrop does not permit proper thorough geological mapping, while geophysical methods are constrained by the effects of the conductive overburden.


Legend

- 10 Pale blocky quartzite, minor graphitic schist
- 11 Quartz muscovite schist and quartz muscovite chlorite schist, grey phyllite
- 12 Graphitic phyllite
- 13 Grey to black flaggy quartzite, graphitic phyllite
- 14 Limestone
- 15 Undifferentiated, 1-5
- 16 Greenstone
- 17 Lamprophyre
- 18 Rhyolite and porphyritic Rhyolite


 Adit


 Trench


 Bedding

 Foliation

FLOAT Area of float rock


 Area of outcrop

 Vein fault, known, assumed

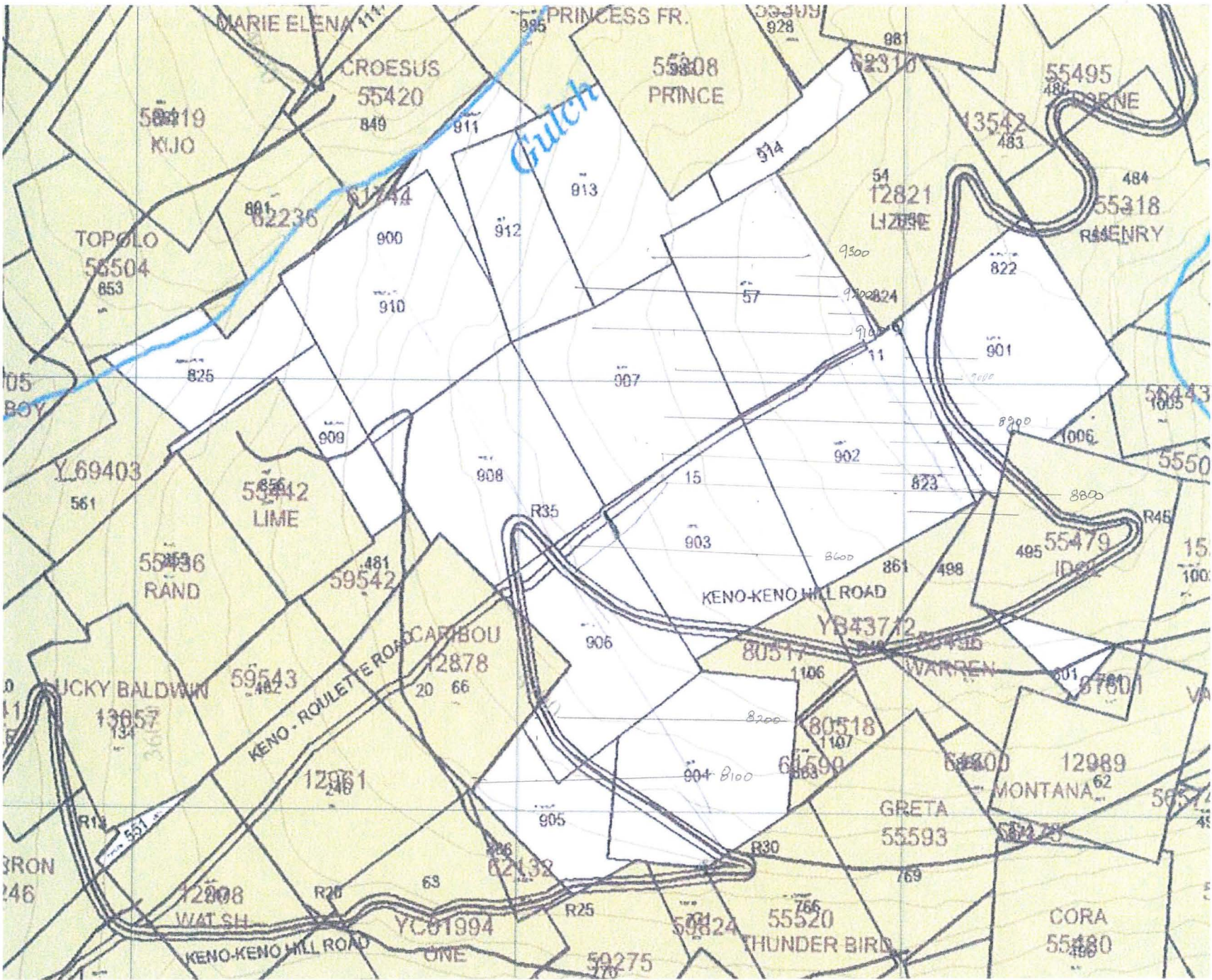
 Building

 Shaft

 Survey line

 Claim posts

 Conductor, strong, weak



Grid

A 500 m baseline and 4400 m of survey line were cut in the central part of the claim group, as well as 2400 meters of random "string and flag" lines established in the early

stages which were intended to locate the position of reported vein faults and thus give a starting point to the programme.

Grid locations were controlled with a modern GPS unit

Geophysical Surveys

VLF Survey

The operator utilized a Sabre model 27 VLF-EM receiver to survey the grid lines. These receivers are tuned to the powerful military transmitters used by the submarine service of many country's, and are a very cost effective tool for discovering subsurface features

The VLF method is a passive method, requiring only a receiver, and is flexible and independent from many of the operational headaches associated with more expensive methods. As applies to exploration, the method detects resistivity contrasts, from poor conductors such as horizontal beds, to solid metallic conductors such as metallic sulphide veins. Simply put, the horizontal ground wave from the transmitter is disturbed as it passes over a local feature which causes a secondary field to introduce a phase shift and the field becomes polarized. The receiver detects this as a change in the tilt angle of the resultant field and these changes are recorded as dip angles in degrees, and plotted on graph paper as profiles or contours.

Since the anomalies expected on the Dirkeno Group are from small sulphide veins, the station interval of 10 meters was chosen over the more common 25 meter spacing since the wider station interval enhances geological structure rather than sulphide lenses.

Generally, the data can be plotted directly, but often, due to the nature of the terrain being surveyed, various factors such as the effect of surficial conduction, slope of the ground, resistivity of the host medium, etc, cause changes in dip angles, and it is desirable to remove these to more clearly define the anomaly, It is normal to treat the data to a filter, such as the Fraser Filter method, which contains a discrete first derivative. Essentially, the filter $[x=(c+d)-(a+b)]$ enhances anomalies with widths equal to or less than the filtered intervals, transforming the "crossover" point where, ideally, the tilt angle changes sign, into positive peaks. This facilitates the contouring of the data, enormously.

Magnetics

The magnetic field was very disturbed during the work period, and after several attempts, the completion of the magnetic survey was postponed.

The writer used a Sharpe MF1 fluxgate magnetometer which reads the vertical component of the earth's magnetic field. The instrument is carried by the operator and while it is held steady over the sample station, the strength of the magnetic field is read from the analogue meter on the instrument. This instrument has a sensitivity of 10 gammas, but under ideal conditions an experienced operator can approximate a 5 gamma resolution. Time between successive readings, time to complete a line or pair of lines is recorded along with the intensity of the vertical magnetic field, and the difference in magnetic readings are calculated. These data are used to determine the amount of drift over time, or diurnal changes, in the magnetic field. Corrected data can then be plotted in the usual manner.

A plot of the corrected magnetic values is included in the body of this report.

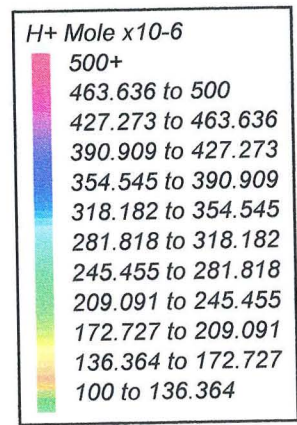
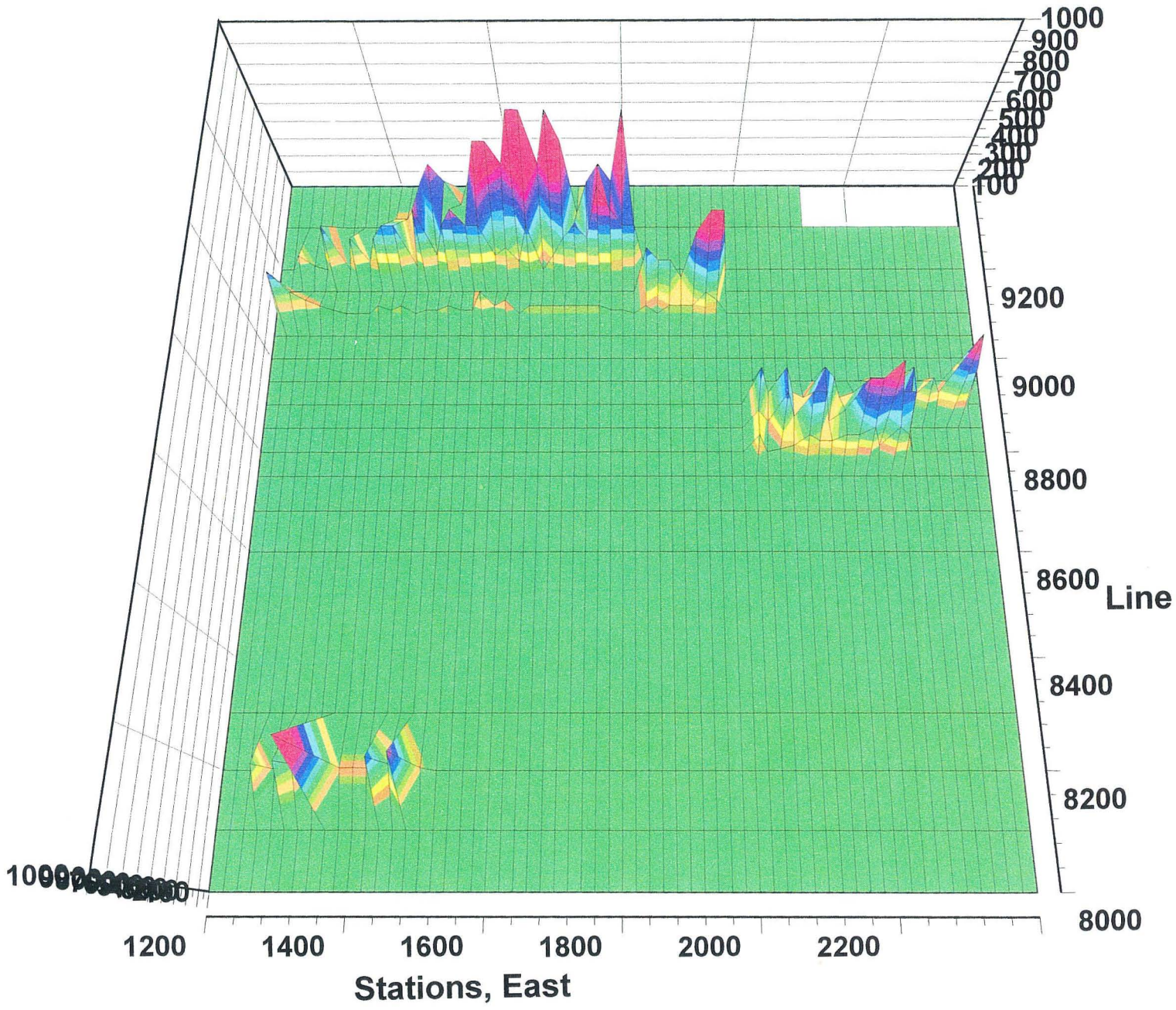
Geochemical Soil Sampling

Most of the claim group is covered with enough till to support a soil sampling program. Some problems in collecting good material arise from the areas covered with boulders and talus where either the depth of the boulder field prevents discovering any soil or, what soil is there is highly organic. The claim was glaciated, being just below the limit of glaciation of the McConnell glaciers, 12000 to 25000 years ago.

168 soil samples were collected along selected lines where geophysical anomalies were the strongest.

Soils were collected using a mattock, with which a cavity was dug to below the organic layer. A .5 kg sample was collected and placed in a Kraft paper soil bag of the standard type used in the mining industry. The grid coordinates were marked on each soil bag. The samples were air dried, sieved to -20 mesh, and packed for shipment. Samples were sent to ALS Chemex in Vancouver for analysis by the ICP61 method, a 4 acid near total digestion process. Results are given for 27 elements. The main suite of elements of interest in the search for Keno type lead-silver veins are, As, Sb, Pb, Zn, Cu, Mn and Fe. Other elements that showed elevated values coincident with Ag are Ba and Be while Ca and Mn showed low values at sample sites with anomalous Ag.

Most of the samples were tested for pH in the field. A 5 ml sample of sieved soil was dissolved in 50 ml of distilled water, and agitated for 2 minutes. A digital, temperature compensated pH meter was then used to test the solution to a resolution of 0.1 pH unit. pH values ranged from 6.1 to 5.1.



Hydrogen Ion Mole, Dirkeno Group

Since the bulk of these samples were taken in one area of the claims, it represents only this specific part of the property.

Results

Geochemical results must be interpreted with the understanding that soil geochemistry on Keno Hill is not always straight forward. Glacial scouring, soil creep, and permafrost can displace an anomaly down hill, or mask it entirely.

pH testing reacts very well in these circumstances and can indicate blind deposits in otherwise difficult situations.

pH values on the property ranged from 5.1 to 6.2 pH units, with an average background of 5.5 for the suite of samples tested. Anomalous samples are in the range of 5.2 and 5.1 or lower.

Anomalous pH is found coincident with VLF-EM and Ag anomalies on lines 8200N, 8850N, 9150N and 9200 and 9300N. The pH lows are broad, in the order of 50 meters or so, and in places are associated with areas of plant stress, (called "kill zones" by some) a characteristic of which is the presence of anomalous arsenic and silver.

Several wide Ag anomalies were found on lines 9100 N, 9150 N, 9200N and 9300N. More sampling is needed to determine if these anomalies are wide, or are following the strike of the source, which seems likely due to the orientation of the main longitudinal faults.

Barium is anomalous with Ag and Zn. Lead is generally not anomalous, as is to be expected from a buried non mobile element. Ca and Mn lows occur over elevated pH and Ag .

Analytical results are included in the body of this report

Summary

The purpose of the work programme was to locate the positions of the #6, Comstock-Porcupine and Hogan vein faults on the Dirkeno claim Group and by extension, any high grade sulphide veins associated with the faults. The work programme was successful in locating a moderate VLF-EM, pH and Ag anomaly of the survey lines, and these anomalies is open ended. The anomalies are of small extent, have not yet been connected spatially to the axis of any extension of the known vein faults, and therefore are suspected of being electrically active portions of transverse vein faults, which normally trend north to northeast, and are considered important as locations of high grade silver lead veins.

These anomalies are located at the north half of the claim group, near the projected axis of the #6 vein fault, where most of the work has been done, the eastern side of the grid where a small anomaly is located in line 8850 east of BL 2000, and on lines 8200 and 8100 in the south end of the claims. Since these areas are covered with overburden, the favourable combination of blocky quartzite, greenstone and schist has not yet been identified at these locations, though one isolated sericite schist outcrop in the area exhibits manganese stain similar to that found on outcrop adjacent to the silver anomaly on the 43 claim.

Conclusions and Recommendations.

The VLF anomaly found at the north end of the claim group was located on east west survey lines and is broad enough that the author feels that the project may benefit from a grid re-orientation to place it more at right angles to the anomaly. At these locations, conductive overburden and permafrost will affect the survey. VLF anomalies will be discrete, and filtering is often needed to enhance the crossovers. Attention needs to be given to the weak positive lows in the raw data.

Given that the targets are quite small in size, usually a few centimetres to less than a meter thick, and not very long, the average, from the literature, being around 15 m in length, a line separation of 25 m should be used in future surveys. Stations for VLF can be standardized at 15 meters, as this is suggested by D.C. Fraser to be the optimum for small sulphide occurrences, given the wavelength of the typical sulphide anomaly. As well, overburden is deep enough so that a spacing of less than 15 meters shows a flat response and only surficial anomalies. A magnetic survey should be carried out on this new grid since the magnetic field should not be affected by surface water and clay layers. The purpose is to both identify structure and outline buried favourable greenstones which are associated with mineralization. Close spaced lines and tight station intervals are mandatory for this type of exploration.

pH appears to be a reliable method of discovering buried sulphides, and is an inexpensive exploration tool. Soil sampling the entire property should be a major focus of future exploration, and pH testing can be done in the field. Sample locations can be controlled with GPS instead of formal line cutting. Dried and sieved samples can later be sent in for analysis. Currently there is not a large enough data base to make maps with but the results so far obtained show a coincidence of low pH values with Ag geochem highs, at least in some of the cases.

Grid cutting and sampling should be completed over the entire property, especially around the anomalous area at 8200N.

List of Costs

Personnel

D. N. Moraal, prospector	15 field days @ 275.00/day	\$4125.00
Vehicle, fuel, etc	16 days @ 65/day	\$ 975.00
Report and costs	3 days @ 230.00/day	\$ 690.00
Equipment rentals	Clearing saw, 15 x 35.00	\$525.00
	Mag/VLF 15 x 35.00	\$525.00
Consumables from stores	(flag, string, bags, etc.)	<u>\$ 100.00</u>
_____		\$6940.00

Authors Qualifications

I, Dirk Moraal of Tagish, Yukon Territory
certify that:

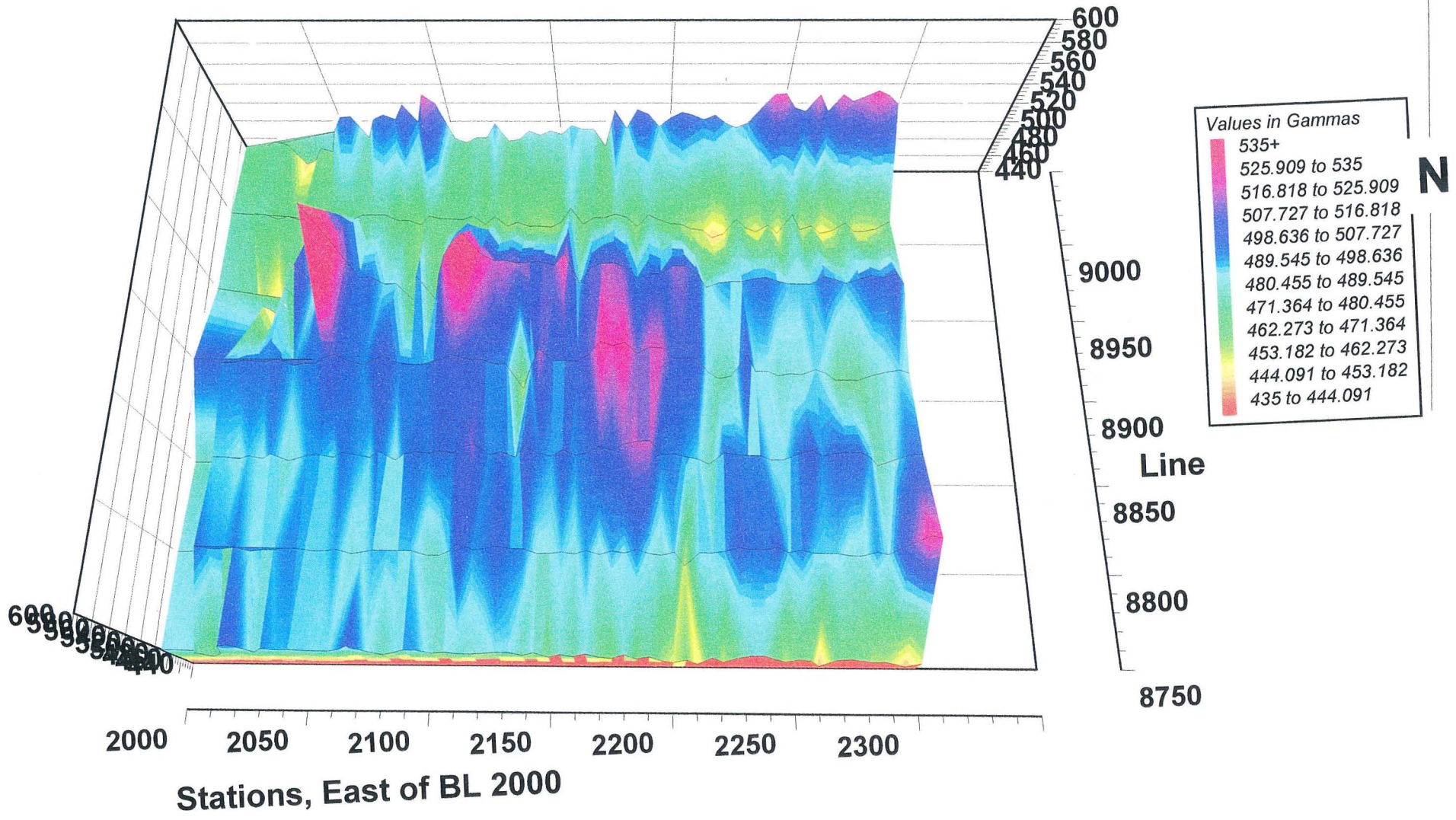
I am a professional prospector and have been active in the mining sector since 1969.

I am the owner and operator of the Dirkeno Group of mineral claims.

This report is based on information gathered between July 21 and August 23,
2005.

I am the author of this report which reflects the work performed, and my understanding
of the area and methods used during the surveys.

Dirk Moraal
Tagish, YT August 2005



Magnetometer survey over eastern portion of Dirkeno Grid

Raw magnetic data, Eastern portion of Dirkeno grid

station	Line 8750	8800	8850	8900	8950	9000	9050
2000	160	135	190	190	250	240	225
2005	150	145	190	190	215	230	275
2010	150	150	200	185	210	240	255
2015	140	145	200	185	225	240	260
2020	170	145	195	190	210	235	255
2025	180	150	200	190	225	240	230
2030	185	140	195	190	250	235	265
2035	160	145	195	195	210	240	250
2040	175	145	190	185	280	250	245
2045	170	150	195	190	250	240	270
2050	175	150	200	190	260	240	285
2055	170	145	200	200	250	240	285
2060	170	145	195	205	310	245	270
2065	170	150	205	195	260	245	280
2070	175	140	200	190	260	250	285
2075	190	145	195	200	250	240	280
2080	175	150	205	205	250	240	295
2085	160	150	190	195	225	235	275
2090	170	150	200	195	260	250	305
2095	180	150	205	195	226	245	295
2100	180	140	200	200	260	245	255
2105	170	140	205	205	250	250	250
2110	175	155	200	210	300	250	255
2115	170	170	210	205	310	240	255
2120	170	155	215	205	275	250	255
2125	175	160	195	200	275	240	250
2130	170	165	200	200	295	245	250
2135	180	160	190	190	270	240	260
2140	170	160	210	195	270	240	250
2145	180	150	205	225	270	240	260
2150	165	150	190	210	265	245	255
2155	175	155	200	210	280	260	260
2160	170	150	190	210	240	250	255
2165	180	160	195	220	260	255	265
2170	170	150	205	240	265	255	264
2175	165	160	200	235	260	260	260
2180	180	155	210	240	245	245	240
2185	165	165	215	235	250	245	280
2190	175	155	215	235	250	260	260
2195	160	155	190	280	260	255	280
2200	155	160	190	270	260	250	275
2205	165	165	185	270	250	245	260
2210	150	160	180	220	235	240	270
2215	175	160	170	200	235	245	275
2220	160	165	190	190	235	235	270
2225	175	175	185	195	235	240	265
2230	185	170	185	275	240	260	270
2235	185	170	185	370	240	250	260
2240	175	175	175	255	235	245	255
2245	165	176	175	200	230	255	260

2250	175	170	185	200	230	245	275
2255	170	165	190	200	230	250	290
2260	150	165	180	210	240	250	290
2265	175	165	185	205	235	255	275
2270	180	160	185	195	235	245	270
2275	175	160	185	195	230	250	285
2280	170	170	175	195	235	260	280
2285	170	165	160	205	245	250	285
2290	165	190	170	210	235	250	290
2295	155	210	180	215	240	255	285
2300	170	205	180	210	225	265	275
		205	160	200			
		195	175	210			
				210			

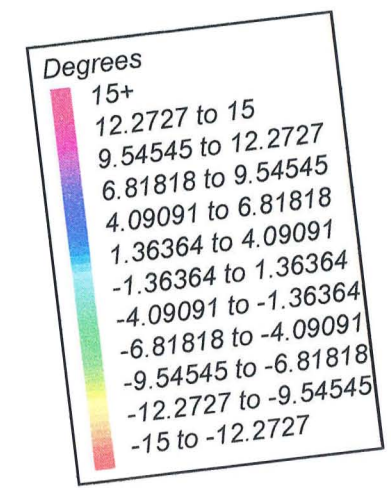
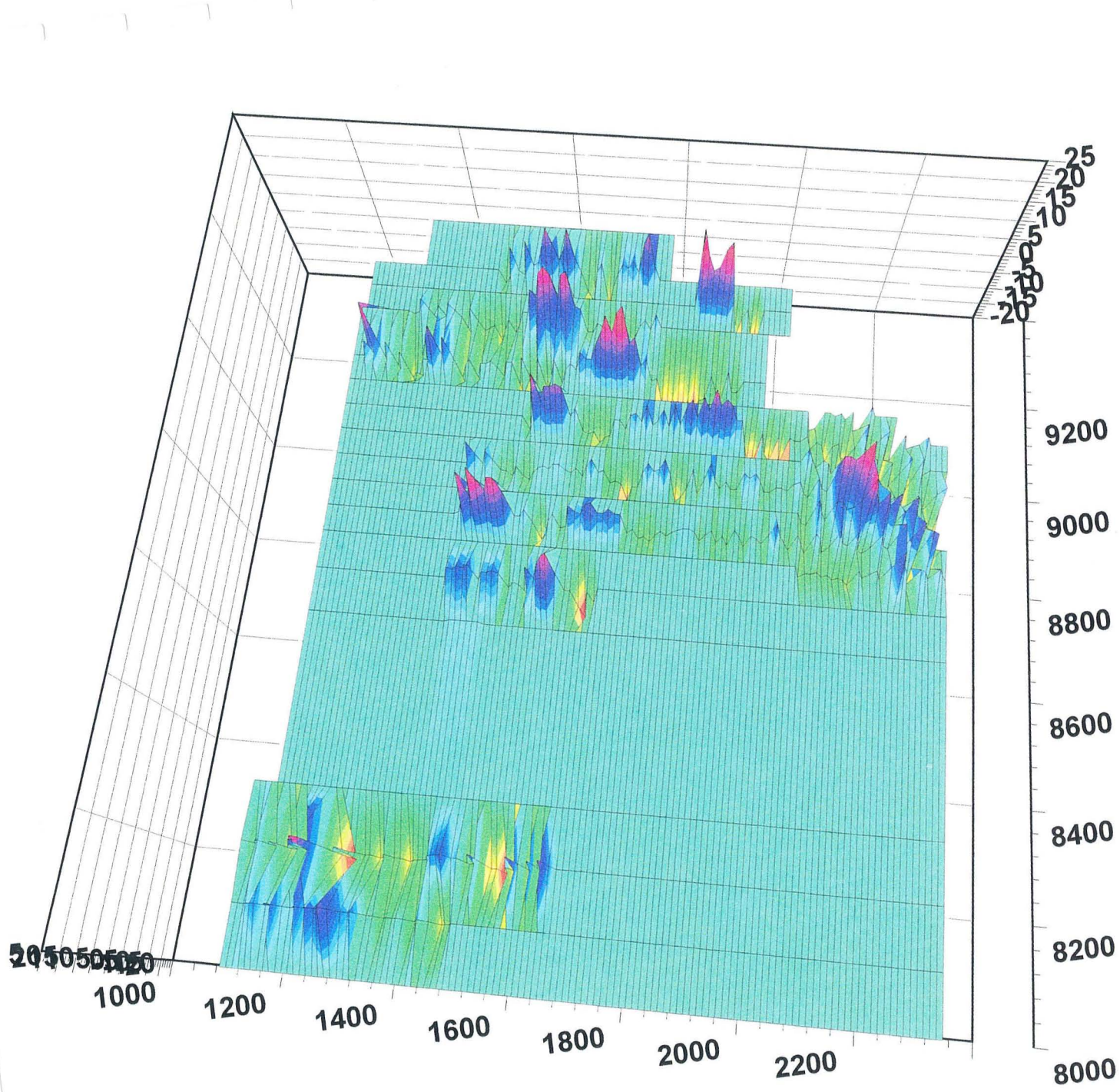
Baseline readings	1st pass	2nd pass	
9100	465	496	30g/18 minutes
9050	470	495	
9000	475	490	
8950	490	505	
8900	495	507	
8850	490	508	
8800	500	505	
8750	505		

Recorded diurnals

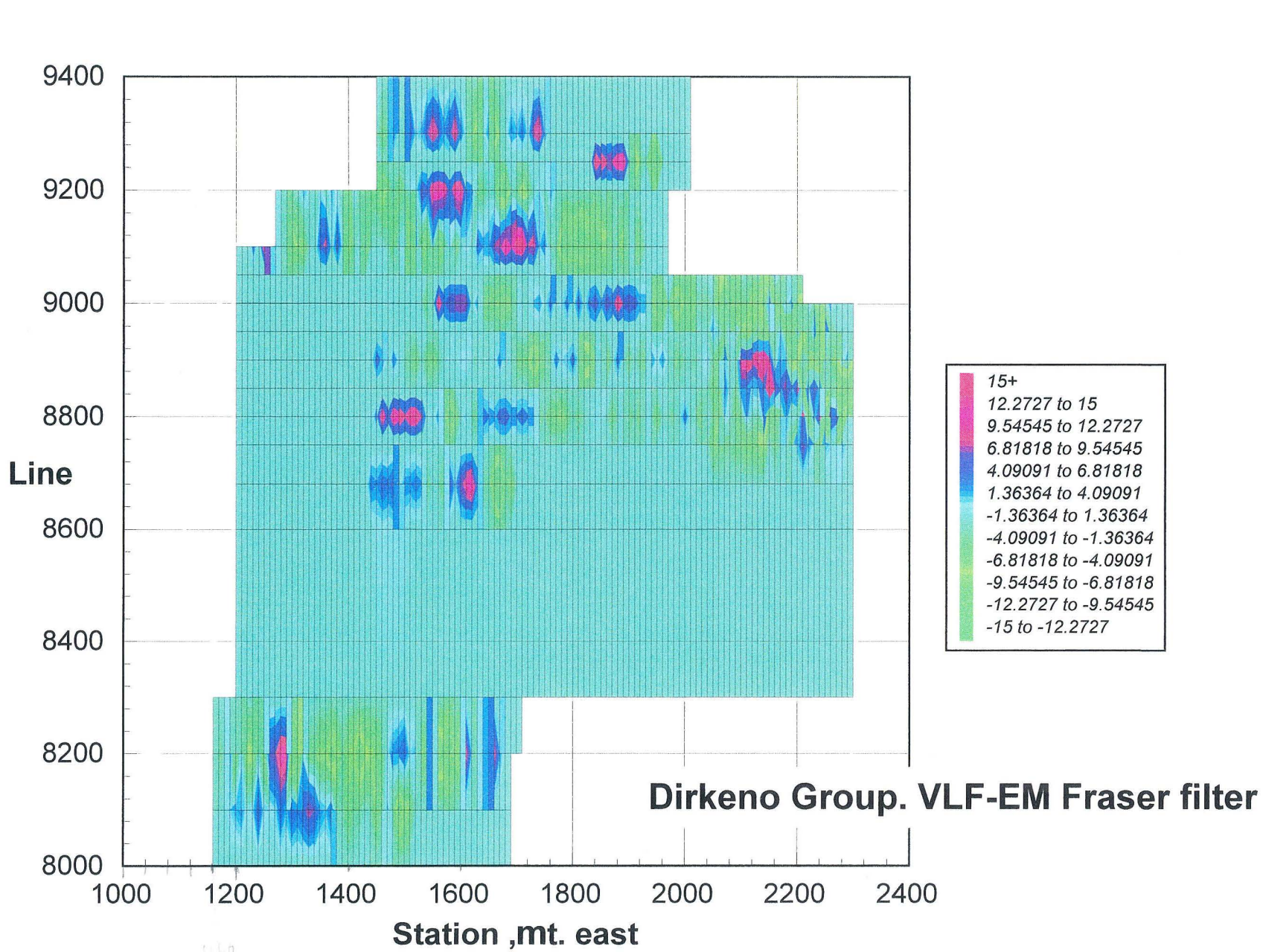
Loop

9050	65g/57min
9000	
8950	75g/62min
8900	
8850	60g/65min
8800	
8750	50g/40min

Base line 30g/18 min



Dirkeno Group, Main Grid
Fraser VLF-EM



1160

	A	B	C	D	E	F	G	H	I	J	K
1	Raw VLF_EM dip angle data Dirkeno grid, 2005										
2											
3		8100	8200	8750	8800	8850	8900	8925	8950	9000	9050
4	station										
5	1150										
6	1160	-13	-4								
7	1170	-11	-3								
8	1180	-13	-4								
9	1190	-10	-7								
10	1200	-10	-5								
11	1210	-11	-6								
12	1220	-13	-6								
13	1230	-11	-5								
14	1240	-12	-7								
15	1250	-9	-4								
16	1260	-13	-6								
17	1270	-9	-4								
18	1280	-9	-6								
19	1290	-10	-9								
20	1300	-9	-7								
21	1310	-10	-11								
22	1320	-12	-6								
23	1330	-9	-3								
24	1340	-9	-5								
25	1350	-10	-1								
26	1360	-8	1								
27	1370	-8	2								
28	1380	-7	1								
29	1390	-6	1		-10						
30	1400	-5	-2		-11		-9				
31	1410	-6	-3		-11		-4				
32	1420	-4	-4		-13		-5				
33	1430	-4	-4		-12		-7				
34	1440	-7	-5		-14		-6				
35	1450	-7	-1		-12		-4				

	A	B	C	D	E	F	G	H	I	J	K
36	1460	-9	-5		-13		-4				
37	1470	-6	-6		-11		-5				
38	1480	-7	-7		-9		-3				
39	1490	-8	-7		-7		-3				
40	1500	-7	-8		-7		-3			-8	
41	1510	-6	-8		-7		-3			-10	
42	1520	-7	-8		-1		-6			-13	
43	1530	-5	-9		-1		-4			-9	
44	1540	-7	-5		-4		-4			-13	
45	1550	-1	-8		-3		-3			-13	
46	1560	-7	-3		-1		-6			-13	
47	1570	-7	-6		-1		-6			-11	
48	1580	-11	-4		-4		-6			-6	
49	1590	-12	-7		-6		-5			-9	
50	1600	-11	-5		-6		-5			-10	
51	1610		-9		-1		-5			-5	
52	1620		-10		-5		-3			-6	
53	1630		-9		-5		-4			-3	
54	1640		-13		-6		-4			-5	
55	1650		-10		-5		-7			-4	
56	1660		-11		-5		-7			-7	
57	1670		-16		-1		-5			-5	
58	1680		-11		-3		-1			-7	
59	1690		-12		-1		-4			-10	
60	1700		-12		-2		-4			-12	
61	1710		-10		0		-4			-11	
62	1720		-11		0		-7			-14	
63	1730		-9		1		-6			-12	
64	1740		-8		3		-8			-12	
65	1750		-8		1		-7			-10	
66	1760		-8		1		-9			-7	
67	1770				-1		-8			-9	
68	1780				-3		-9			-6	
69	1790				-1		-7			-9	
70	1800				-1		-3			-7	

	A	B	C	D	E	F	G	H	I	J	K
71	1810				0		0			-8	
72	1820				-3		-6			-7	
73	1830				0		-1			-6	
74	1840				-1		-9			-5	
75	1850				0		-11			-8	
76	1860				-1		-8			-3	
77	1870				-2		-8			-9	
78	1880				-3		-6			-6	
79	1890				-1		-7			-4	
80	1900				-3		-7			-3	
81	1910				-4		-8			-3	
82	1920				-1		-10			-1	
83	1930				-1		-11			1	
84	1940				-3		-9			2	
85	1950				-2		-8			3	
86	1960				-3		-7			1	
87	1970				-2		-6			0	
88	1980				-1		-5			0	
89	1990				0		-8			1	
90	2000			-2	-6	-7	-10		-3	-5	-1
91	2010			-3	-6	-9	-9		-3	-3	-1
92	2020			-3	-5	-8	-9		-3	-7	5
93	2030			-4	-8	-8	-8		1	-3	-7
94	2040			-4	-8	-5	-7		-3	-2	-9
95	2050			-3	-8	-8	-7		-2	-3	-9
96	2060			-5	-4	-7	-9		-1	-4	-8
97	2070			-6	-8	-7	-9		-3	-3	-7
98	2080			-3	-8	-4	-9		-2	-5	7
99	2090			-6	-8	-8	-7		-1	-5	-7
100	2100			-5	-19	-6	-9		-2	-7	-9
101	2110			-6	-7	-6	-11		-5	-7	-7
102	2120			-6	-7	-6	-6		-3	-5	-8
103	2130			-7	-10	-8	-7		-4	-11	-8
104	2140			-4	-7	-5	-6		-3	-9	-9
105	2150			-8	-4	-3	-3	-6	-7	-6	-9

	A	B	C	D	E	F	G	H	I	J	K
106	2160			-9	-9	-2	-2	-9	-3	-6	-7
107	2170			-9	-9	-1	-2	-5	-3	-11	-7
108	2180			-9	-9	4	-1	-9	-2	-7	-13
109	2190			-10	-6	0	1	-8	-4	-6	-11
110	2200			1	-9	0	-3	-2	-5	-8	-7
111	2210			-8	-9	1	-2	-12	-5	-9	-11
112	2220			-7	-5	-1	-1	-9	-6	-10	-8
113	2230			-11	-5	0	-2	-13	-8	-8	-9
114	2240			-12	-7	3	-3	-6	-6	-11	-10
115	2250			-9	-5	1	-2	1	-8	-9	-11
116	2260			-9	-3	3	-4	-5	-4	-8	-9
117	2270			-7	-5	4	-3	-5	-5	-7	-8
118	2280			-7	-2	3	-4	-1	-8	-8	-9
119	2290			-8	0	4	-6	-4	-7	-8	-8
120	2300			-8	-2	2	-2	-6	-8	-10	0
121	2310			-7	-1	-4	-5				
122	2320			-11	-1	-2	-6				
123	2330			-9	-2	-3	-3				
124	2340			-5	-3	-4	-3				
125	2350			-5	-5	-3	-1				
126	2360			-7	-3	-1	-2				
127	2370			-8	-7		2				
128	2380			-5	-3		-1				
129	2390			-7	1						
130	2400			-9	1						
131	2410			-6							

	L	M	N	O
1				
2				
3	9100	9200		9300
4				
5	-9			
6	-9			
7	-9			
8	-10			
9	-7			
10	-6			
11	-8			
12	-11			
13	-5			
14	-11	-11		
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16	-11	-13		
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18	-9	-10		
19	-13	-10		
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23	-9	-12		
24	-7	-11		
25	-4	-11		
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27	-8	-9		
28	-9	-8		
29	-9	-10		
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31	-5	-11		-7
32	-11	-14		-6
33	-9	-11		-8
34	-7	-11		-7
35	-10	-11		-11

	L	M	N	O
36	-8	13		-5
37	-7	12		-10
38	-9	13		-2
39	-9	14		-11
40	-9	13		-10
41	-9	12		-9
42	-11	16		-10
43	-9	12		-9
44	-14	15		-8
45	-11	13		-9
46	-12	12		-6
47	-14	11		-4
48	-12	9		-5
49	-14	12		-7
50	-13	10		-9
51	-13	-4		-3
52	-11	-7		-4
53	-11	-9		-7
54	-12	-8		-5
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56	-10	-7		-4
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60	-3	-7		-8
61	-1	-11		-8
62	-3	-11		-9
63	1	-12		-5
64	-1	-11		-3
65	-2	-9	-7	-3
66	-1	-11	-5	-3
67	-4	-7	-5	-5
68	-1	-7	-5	-3
69	-3	-9	-5	-3
70	-4	-8	-8	-3

	L	M	N	O
71	-5	-10	-7	-4
72	-7	-11	-5	
73	-9	-7	-1	
74	-10	-7	2	
75	-9	-9	-2	
76	-7	-11	-6	
77	-12	-10	1	
78	-10	-11	7	
79	-14	-6	5	
80	-11	-9	5	
81	-10		4	
82	-12		2	
83	-10		3	
84	-12		3	
85	-13		1	
86	-16		-3	
87			-3	
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89			-4	
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Page: 2 - A
Total # Pages: 5 (A - B)
Finalized Date: 3-OCT-2005
Account: DIRMOR

CERTIFICATE OF ANALYSIS VA05080130

Sample Description	Method Analyte Units LOR	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %
		0.02	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	0.01	0.01
43001 DL		0.06	<0.5	5.29	21	840	1.1	<2	1.02	<0.5	10	68	20	2.86	1.14	0.61
43002 DL		0.10	<0.5	5.47	20	840	1.2	<2	0.92	<0.5	10	80	19	3.35	1.18	0.66
43003 DL		0.10	<0.5	5.76	16	940	1.3	<2	0.87	<0.5	7	81	22	3.51	1.26	0.59
43004 DL		0.06	<0.5	5.31	13	710	1.0	<2	0.68	<0.5	6	84	22	3.37	1.04	0.51
43005 DL		0.08	0.9	6.03	38	1050	1.6	<2	0.56	0.6	16	99	28	3.49	1.49	0.43
43006 DL		0.06	0.6	7.98	33	>10000	2.3	<2	0.26	0.5	16	99	60	3.60	2.05	0.86
43007 DL		0.06	0.6	6.57	31	3380	1.8	<2	0.61	0.6	12	97	52	3.64	1.71	0.72
43008 DL		0.06	0.5	7.76	38	7930	2.1	<2	0.29	1.0	5	125	25	3.26	2.11	0.49
43009 DL		0.06	0.6	6.89	17	2590	1.9	<2	0.38	0.7	13	91	43	4.02	1.85	0.71
82-1250		0.08	<0.5	6.49	18	1120	1.3	<2	0.70	<0.5	6	78	20	3.34	1.39	0.70
82-1270		0.08	<0.5	5.89	24	960	1.2	<2	0.60	<0.5	8	68	19	3.13	1.21	0.52
82-1290		0.08	0.5	5.37	20	870	1.1	<2	0.63	<0.5	3	63	14	2.42	1.19	0.43
82-1310		0.12	<0.5	5.78	6	950	1.1	<2	0.80	0.5	5	66	16	2.78	1.28	0.61
82-1330		0.08	0.8	5.89	28	950	1.2	<2	0.63	0.6	16	76	14	4.00	1.33	0.58
82-1350		0.08	<0.5	6.45	20	1030	1.2	<2	0.79	<0.5	4	72	15	3.10	1.41	0.71
82-1370		0.16	1.0	5.82	32	870	1.0	<2	0.77	<0.5	7	65	11	3.06	1.13	0.56
82-1390		0.12	0.5	6.90	29	1030	1.4	<2	0.75	<0.5	11	82	22	4.10	1.37	0.78
82-1410		0.08	<0.5	5.98	21	930	1.2	<2	0.78	0.5	5	67	19	3.04	1.22	0.67
82-1430		0.10	<0.5	6.20	37	1010	1.2	<2	0.74	0.5	5	72	15	3.01	1.30	0.66
82-1450		0.12	<0.5	6.00	36	890	1.2	<2	0.79	0.8	8	68	14	3.61	1.20	0.70
82-1470		0.10	<0.5	5.73	48	910	1.1	<2	0.70	<0.5	8	65	19	3.02	1.17	0.61
82-1490		0.08	1.0	6.29	32	1050	1.3	2	0.70	<0.5	9	69	24	3.42	1.27	0.69
82-1510		0.08	0.6	5.89	50	930	1.2	<2	0.66	<0.5	7	64	15	3.90	1.26	0.59
82-1530		0.08	0.9	5.97	29	970	1.2	<2	0.72	0.6	4	71	18	3.11	1.31	0.62
82-1550		0.16	0.5	5.67	26	920	1.1	<2	0.71	<0.5	5	66	18	2.80	1.24	0.62
82-1570		0.14	0.8	6.16	37	990	1.3	<2	0.72	<0.5	11	71	22	3.56	1.29	0.66
82-1590		0.06	0.7	5.86	23	960	1.1	<2	0.68	0.6	5	71	20	3.08	1.29	0.65
82-1610		0.08	0.9	5.77	22	960	1.2	<2	0.72	<0.5	6	68	16	3.14	1.24	0.61
88-2000		0.14	<0.5	5.31	18	920	1.1	<2	0.89	<0.5	6	58	16	2.59	1.18	0.62
88-2020		0.10	<0.5	5.51	13	1040	1.1	<2	0.79	<0.5	5	65	18	2.81	1.20	0.61
88-2040		0.16	0.5	5.53	9	1020	1.2	<2	0.85	<0.5	6	62	19	2.72	1.23	0.65
88-2060		0.10	0.7	5.83	15	1110	1.2	<2	0.88	<0.5	6	66	20	2.84	1.30	0.67
88-2080		0.12	0.6	5.86	20	1070	1.2	<2	0.99	0.8	7	61	23	2.70	1.31	0.68
88-2100		0.14	0.5	5.26	8	870	1.1	<2	0.95	<0.5	5	50	20	2.38	1.17	0.60
88-2120		0.14	0.6	5.50	20	1040	1.1	<2	0.88	<0.5	4	59	20	2.54	1.23	0.60
88-2140		0.08	0.7	5.80	19	1280	1.2	<2	0.73	0.9	5	67	22	2.73	1.32	0.59
88-2160		0.10	0.5	5.84	17	1270	1.2	<2	0.72	<0.5	5	69	20	2.74	1.32	0.61
88-2180		0.14	<0.5	5.35	11	1100	1.1	<2	0.77	<0.5	7	60	17	2.39	1.19	0.56
88-2200		0.10	<0.5	6.12	28	1560	1.3	<2	0.59	<0.5	7	82	20	3.06	1.38	0.52
88-2220		0.08	0.5	6.11	32	1290	1.2	<2	0.73	<0.5	9	74	20	2.96	1.32	0.62



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Page: 2 - B
Total # Pages: 5 (A - B)
Finalized Date: 3-OCT-2005
Account: DIRMOR

CERTIFICATE OF ANALYSIS VA05080130

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	V ppm	W ppm
		5	1	0.01	1	10	2	0.01	5	1	0.01	1	10
43001 DL		472	1	1.01	28	880	12	0.03	<5	190	0.39	109	<10
43002 DL		452	1	1.10	28	410	13	0.02	<5	176	0.42	121	<10
43003 DL		382	1	0.98	27	750	14	0.02	<5	189	0.44	131	10
43004 DL		381	2	0.77	23	1000	13	0.06	<5	134	0.46	122	10
43005 DL		641	2	0.63	60	1100	30	0.03	5	142	0.38	122	<10
43006 DL		827	5	0.68	51	900	23	0.04	<5	148	0.40	163	<10
43007 DL		905	3	0.82	42	1200	19	0.04	<5	161	0.42	141	<10
43008 DL		255	6	0.62	26	1350	21	0.05	5	163	0.52	196	10
43009 DL		619	9	0.73	47	1380	25	0.03	5	132	0.35	141	<10
82-1250		388	1	0.93	28	720	21	0.01	<5	158	0.43	147	<10
82-1270		479	2	0.77	21	820	19	0.02	5	136	0.43	136	<10
82-1290		285	1	0.81	17	860	17	0.01	5	137	0.45	125	10
82-1310		301	2	1.07	21	720	17	0.01	<5	174	0.40	123	<10
82-1330		1175	3	0.84	22	990	17	0.02	<5	136	0.42	152	<10
82-1350		293	1	1.07	21	590	17	0.01	<5	173	0.43	141	<10
82-1370		733	1	0.98	18	580	14	0.01	<5	156	0.46	128	<10
82-1390		616	2	1.06	31	620	18	0.02	<5	171	0.43	146	<10
82-1410		315	1	1.04	27	770	17	0.02	<5	167	0.38	122	<10
82-1430		304	2	0.97	21	590	21	0.01	<5	164	0.41	134	<10
82-1450		360	1	1.03	26	580	18	0.01	<5	165	0.38	121	<10
82-1470		399	1	0.92	22	450	17	0.01	<5	153	0.38	116	<10
82-1490		608	1	0.95	27	1150	20	0.02	5	157	0.38	128	<10
82-1510		474	2	0.89	18	580	27	0.01	<5	144	0.40	133	10
82-1530		340	2	0.95	21	1010	22	0.02	<5	155	0.40	131	<10
82-1550		278	2	0.95	24	1060	19	0.02	<5	153	0.37	119	<10
82-1570		775	1	0.94	24	1390	29	0.02	<5	155	0.39	129	<10
82-1590		327	<1	0.91	24	1260	23	0.03	<5	152	0.39	128	<10
82-1610		465	2	0.85	19	950	19	0.02	<5	145	0.42	124	10
88-2000		429	1	1.06	22	630	12	0.01	<5	173	0.35	104	10
88-2020		400	1	0.99	22	620	24	0.01	<5	166	0.37	112	<10
88-2040		399	1	1.04	26	710	24	0.01	<5	171	0.36	109	<10
88-2060		405	1	1.10	24	660	30	0.01	<5	182	0.37	113	<10
88-2080		458	2	1.21	26	620	28	0.01	<5	199	0.35	109	<10
88-2100		404	<1	1.19	23	610	16	0.01	<5	195	0.31	91	<10
88-2120		324	1	1.09	24	640	23	0.02	<5	180	0.36	106	<10
88-2140		334	1	0.98	23	890	35	0.02	<5	169	0.37	120	<10
88-2160		270	1	1.04	23	790	29	0.02	<5	174	0.37	116	10
88-2180		350	1	0.96	20	560	24	0.01	<5	172	0.32	101	<10
88-2200		463	3	0.79	23	980	34	0.03	<5	160	0.40	136	<10
88-2220		399	2	0.95	23	810	33	0.02	<5	179	0.39	121	<10



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Page: 3 - A
Total # Pages: 5 (A - B)
Finalized Date: 3-OCT-2005
Account: DIRMOR

CERTIFICATE OF ANALYSIS VA05080130

Sample Description	Method Analyte Units LOR	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %
		0.02	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	0.01	0.01	0.01	
88-2240		0.16	<0.5	5.98	23	1100	1.2	<2	0.94	<0.5	10	62	26	2.88	1.28	0.66
885-2000		0.12	<0.5	6.07	23	1050	1.2	<2	0.89	<0.5	12	70	20	3.02	1.30	0.65
885-2020		0.10	<0.5	5.74	25	980	1.1	<2	0.92	<0.5	8	64	18	2.58	1.24	0.65
885-2040		0.10	<0.5	5.87	21	1110	1.2	<2	0.77	<0.5	7	68	20	2.79	1.26	0.64
885-2060		0.12	0.5	5.44	19	1080	1.1	<2	0.71	<0.5	8	61	18	2.61	1.20	0.56
885-2080		0.10	0.5	5.55	15	1040	1.1	<2	0.74	<0.5	8	59	21	2.52	1.20	0.59
885-2100		0.14	0.7	5.65	17	1140	1.1	<2	0.75	<0.5	8	62	20	2.50	1.23	0.58
885-2120		0.02	0.7	5.70	23	1150	1.2	<2	0.75	<0.5	7	63	19	2.55	1.24	0.57
885-2140		0.02	0.8	6.38	37	1400	1.3	<2	0.72	<0.5	9	74	23	3.02	1.38	0.63
885-2160		0.08	0.8	6.44	32	1500	1.2	<2	0.66	<0.5	9	75	20	2.94	1.39	0.61
885-2180		0.22	0.7	6.21	16	1360	1.2	<2	0.68	<0.5	6	71	19	2.76	1.35	0.58
885-2200		0.12	0.6	6.80	28	1660	1.5	<2	0.48	<0.5	8	88	24	3.19	1.50	0.53
885-2220		0.10	<0.5	5.93	27	1240	1.2	<2	0.70	<0.5	7	71	20	2.84	1.28	0.55
885-2240		0.10	<0.5	5.90	16	1200	1.2	<2	0.74	<0.5	7	67	19	2.87	1.26	0.63
89-2000		0.12	<0.5	5.88	24	1080	1.2	<2	0.80	<0.5	7	67	24	2.85	1.25	0.64
89-2020		0.18	<0.5	5.41	32	1020	1.2	<2	0.69	<0.5	9	61	21	2.57	1.15	0.55
89-2040		0.10	<0.5	5.77	25	1080	1.1	<2	0.73	<0.5	8	65	21	2.77	1.24	0.62
89-2060		0.20	<0.5	5.45	27	1020	1.1	<2	0.85	<0.5	10	59	23	2.53	1.17	0.60
89-2080		0.12	<0.5	6.51	42	1410	1.3	<2	0.60	<0.5	8	77	25	3.07	1.34	0.61
89-2100		0.16	0.8	5.93	27	1240	1.2	<2	0.66	<0.5	7	69	22	3.03	1.26	0.56
89-2120		0.10	0.5	5.77	36	1220	1.2	<2	0.61	<0.5	8	69	20	2.73	1.28	0.50
89-2140		0.18	0.6	5.73	33	1180	1.2	<2	0.68	<0.5	8	64	23	2.68	1.26	0.55
89-2160		0.12	0.7	5.25	22	1020	1.1	<2	0.70	<0.5	7	63	19	2.70	1.18	0.54
89-2180		0.12	0.7	5.37	23	1020	1.1	<2	0.77	<0.5	7	62	18	2.72	1.21	0.58
89-2200		0.14	<0.5	5.54	26	1100	1.2	<2	0.72	<0.5	8	65	15	2.55	1.22	0.56
89-2220		0.14	0.5	6.29	27	1360	1.3	<2	0.67	<0.5	6	77	17	2.94	1.34	0.59
89-2250		0.16	<0.5	5.18	26	1080	1.1	<2	0.66	<0.5	7	61	16	2.54	1.10	0.53
89-2270		0.14	<0.5	5.49	14	1100	1.1	<2	0.68	<0.5	9	65	16	2.85	1.16	0.57
89-2290		0.12	0.5	5.32	23	1020	1.1	<2	0.78	<0.5	8	62	20	2.74	1.12	0.58
89-2310		0.12	<0.5	5.05	23	920	1.0	<2	0.60	<0.5	7	59	17	2.49	1.04	0.46
89-2330		0.12	<0.5	5.50	21	1100	1.1	<2	0.80	<0.5	9	67	19	3.14	1.15	0.63
89-2350		0.14	<0.5	5.32	37	1100	1.1	<2	0.80	<0.5	7	63	15	2.72	1.15	0.56
915-1840		0.10	<0.5	5.95	17	2970	1.2	<2	0.83	<0.5	7	68	25	2.69	1.32	0.64
915-1860		0.10	<0.5	6.34	15	2490	1.3	<2	0.89	<0.5	10	75	33	3.03	1.36	0.76
915-1880		0.14	<0.5	6.85	11	6640	1.4	<2	0.80	<0.5	6	79	31	3.09	1.48	0.74
915-1900		0.16	0.5	6.87	16	7210	1.6	<2	0.66	<0.5	7	88	39	3.07	1.62	0.73
915-1920		0.08	0.8	7.05	12	7830	1.6	<2	0.60	<0.5	8	90	42	3.14	1.69	0.72
915-1940		0.08	1.1	7.19	38	8270	1.7	<2	0.55	<0.5	7	93	34	3.09	1.77	0.72
915-1960		0.08	<0.5	6.46	20	5750	1.4	<2	0.57	<0.5	7	92	31	3.22	1.52	0.72
92-1240		0.08	0.9	7.75	9	1880	2.0	<2	0.53	<0.5	15	120	29	3.42	1.74	0.56



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Page: 3 - B
Total # Pages: 5 (A - B)
Finalized Date: 3-OCT-2005
Account: DIRMOR

CERTIFICATE OF ANALYSIS VA05080130

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sr ppm	Ti %	V ppm	W ppm
		5	1	0.01	1	10	2	0.01	5	1	0.01	1	10
88-2240		486	1	1.13	23	660	15	0.01	<5	200	0.37	113	<10
885-2000		661	2	1.10	27	730	25	0.02	<5	195	0.38	115	<10
885-2020		344	1	1.07	22	800	18	0.01	<5	187	0.36	109	<10
885-2040		370	1	0.99	21	720	23	0.02	<5	177	0.36	115	<10
885-2060		363	2	0.91	17	620	33	0.02	<5	167	0.34	105	<10
885-2080		321	2	0.97	22	650	31	0.01	<5	172	0.32	104	<10
885-2100		300	2	0.97	19	580	36	0.01	<5	175	0.33	106	<10
885-2120		349	1	0.99	23	630	34	0.01	<5	180	0.34	107	<10
885-2140		493	3	0.98	24	820	42	0.02	<5	183	0.37	125	<10
885-2160		358	2	0.98	24	670	33	0.02	<5	177	0.37	127	<10
885-2180		308	2	1.01	23	640	30	0.02	<5	179	0.36	119	<10
885-2200		422	3	0.77	24	1120	50	0.04	6	158	0.39	147	<10
885-2220		342	2	0.94	21	1060	18	0.03	<5	175	0.36	117	<10
885-2240		343	2	0.97	21	690	19	0.01	<5	175	0.37	114	<10
89-2000		361	1	0.98	22	680	14	0.01	<5	177	0.35	113	<10
89-2020		380	2	0.91	20	620	21	0.01	<5	164	0.33	102	<10
89-2040		359	1	0.97	22	680	23	0.02	<5	169	0.36	115	<10
89-2060		489	1	1.03	26	590	13	0.01	<5	182	0.34	103	<10
89-2080		360	2	0.91	22	1130	30	0.04	<5	165	0.38	132	<10
89-2100		474	2	0.89	22	760	41	0.02	<5	161	0.37	121	<10
89-2120		347	2	0.88	22	530	38	0.02	<5	165	0.37	118	<10
89-2140		461	2	0.93	24	540	47	0.01	<5	172	0.34	107	<10
89-2160		409	2	0.90	21	710	35	0.02	<5	161	0.34	105	<10
89-2180		401	2	0.97	16	710	32	0.02	<5	172	0.34	105	<10
89-2200		458	1	0.94	19	580	30	0.01	<5	170	0.33	104	<10
89-2220		288	2	0.94	21	760	35	0.02	<5	174	0.35	120	<10
89-2250		321	2	0.83	21	590	19	0.02	<5	155	0.32	100	<10
89-2270		370	2	0.82	20	670	13	0.02	<5	152	0.34	109	<10
89-2290		386	1	0.91	21	640	14	0.02	<5	169	0.34	103	<10
89-2310		268	1	0.80	21	940	14	0.05	<5	151	0.32	96	<10
89-2330		364	2	0.88	20	760	19	0.03	<5	160	0.37	116	<10
89-2350		299	2	0.92	24	570	10	0.01	<5	169	0.34	107	<10
915-1840		293	2	0.99	22	690	22	0.02	<5	184	0.36	118	<10
915-1860		373	3	1.12	25	780	27	0.01	<5	203	0.38	125	<10
915-1880		344	4	0.96	20	640	38	<0.01	<5	203	0.39	140	<10
915-1900		379	6	0.88	27	750	43	<0.01	<5	191	0.41	154	<10
915-1920		362	5	0.86	26	740	49	<0.01	<5	202	0.41	164	<10
915-1940		313	4	0.84	24	740	39	0.01	<5	201	0.41	170	<10
915-1960		324	4	0.77	27	1040	23	0.03	<5	181	0.41	161	<10
92-1240		762	3	0.75	44	1220	26	0.01	<5	248	0.41	154	<10



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Finalized Date: 3-OCT-2005
Account: DIRMOR

CERTIFICATE OF ANALYSIS VA05080130

Sample Description	Method Analyte Units LOR	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %
		0.02	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	0.01	0.01	0.01	
92-1260		0.10	<0.5	5.75	12	1250	1.3	<2	0.90	<0.5	9	77	20	2.96	1.26	0.62
92-1280		0.12	0.9	7.59	11	1600	1.6	<2	0.63	<0.5	16	102	22	4.45	1.55	0.77
92-1300		0.08	1.1	6.21	18	1520	1.3	<2	0.51	<0.5	6	88	14	3.35	1.41	0.48
92-1320		0.22	<0.5	6.45	24	1580	1.4	<2	0.79	<0.5	9	85	22	3.08	1.43	0.64
92-1340		0.14	0.5	6.00	15	1400	1.3	<2	0.85	<0.5	7	71	19	2.67	1.35	0.65
92-1360		0.16	<0.5	5.40	14	1280	1.2	<2	0.86	<0.5	8	62	18	2.64	1.24	0.61
92-1380		0.14	<0.5	6.39	14	1680	1.3	<2	0.74	<0.5	8	79	20	3.06	1.37	0.65
92-1400		0.18	<0.5	5.30	24	1290	1.1	<2	0.83	<0.5	8	66	18	2.71	1.19	0.58
92-1420		0.18	<0.5	5.29	6	1140	1.2	<2	0.93	<0.5	8	62	19	2.67	1.20	0.62
92-1440		0.18	<0.5	5.98	29	1300	1.3	<2	0.96	<0.5	9	73	27	2.95	1.29	0.68
92-1460		0.06	<0.5	5.03	36	1800	1.1	<2	0.46	<0.5	7	71	15	2.83	1.29	0.36
92-1480		0.16	<0.5	5.51	30	1560	1.2	<2	0.86	<0.5	11	67	29	2.97	1.24	0.61
92-1500		0.08	<0.5	4.81	51	1820	1.0	<2	0.45	<0.5	6	68	18	3.31	1.20	0.36
92-1520		0.08	<0.5	5.91	11	1990	1.2	<2	0.85	<0.5	7	69	30	2.88	1.33	0.70
92-1540		0.14	<0.5	6.52	23	2180	1.3	<2	0.88	<0.5	9	73	41	3.18	1.46	0.78
92-1560		0.18	<0.5	6.29	15	1960	1.3	<2	0.83	<0.5	8	70	34	2.93	1.39	0.76
92-1580		0.06	0.5	6.66	14	2760	1.4	<2	0.81	<0.5	15	78	46	3.28	1.45	0.75
92-1600		0.20	<0.5	6.21	7	2250	1.3	<2	0.85	<0.5	9	69	38	2.90	1.41	0.74
92-1620		0.10	<0.5	6.27	9	3100	1.4	<2	0.63	0.5	7	86	40	2.83	1.52	0.64
92-1640		0.20	<0.5	5.91	12	1460	1.2	<2	0.85	<0.5	8	64	25	2.75	1.31	0.72
92-1660		0.14	<0.5	5.62	11	1440	1.1	<2	0.82	<0.5	6	65	21	2.67	1.25	0.66
92-1680		0.26	<0.5	5.71	12	1290	1.2	<2	0.81	<0.5	8	66	23	2.69	1.29	0.65
92-1700		0.12	0.5	5.67	13	1280	1.1	<2	0.79	<0.5	7	69	22	2.77	1.26	0.64
92-1720		0.12	0.5	6.12	<5	2120	1.2	<2	0.76	<0.5	6	76	24	2.78	1.35	0.69
92-1740		0.14	<0.5	5.73	7	2170	1.2	<2	0.76	<0.5	7	69	27	2.65	1.29	0.66
92-1760		0.14	<0.5	6.15	6	2190	1.2	<2	0.81	<0.5	6	68	31	2.87	1.31	0.71
92-1780		0.12	<0.5	5.78	<5	3170	1.3	<2	0.64	<0.5	8	68	33	2.75	1.33	0.66
92-1800		0.12	<0.5	6.65	<5	5180	1.4	<2	0.45	<0.5	10	75	56	3.14	1.54	0.74
92-1820		0.20	0.6	6.74	9	4100	1.5	<2	0.69	0.7	13	70	85	3.27	1.53	0.77
92-1840		0.18	<0.5	5.90	7	2600	1.2	<2	0.89	<0.5	7	66	39	2.74	1.34	0.64
92-1860		0.16	0.5	5.73	13	3100	1.2	<2	0.74	<0.5	8	65	48	2.76	1.30	0.63
92-1880		0.10	<0.5	6.00	21	3550	1.3	<2	0.53	<0.5	5	79	31	2.74	1.39	0.52
93-1400		0.12	<0.5	6.55	25	3230	1.4	<2	0.68	<0.5	3	79	35	3.34	1.62	0.74
93-1420		0.08	<0.5	6.94	32	3240	1.4	<2	0.87	<0.5	8	87	50	3.85	1.60	0.82
93-1440		0.10	<0.5	6.51	24	2230	1.3	<2	0.70	<0.5	4	73	26	3.37	1.52	0.72
93-1460		0.08	<0.5	5.94	23	1270	1.3	<2	0.46	<0.5	4	69	29	4.95	1.48	0.60
93-1480		0.10	<0.5	6.21	13	1080	1.3	<2	0.70	<0.5	4	73	28	3.84	1.51	0.72
93-1500		0.08	<0.5	5.97	17	960	1.2	<2	0.71	<0.5	4	69	19	3.72	1.40	0.67
93-1520		0.10	0.7	6.29	19	990	1.3	<2	0.66	<0.5	4	71	27	4.43	1.46	0.68
93-1540		0.12	<0.5	6.19	13	1080	1.2	<2	0.72	<0.5	5	70	25	3.52	1.48	0.70



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Page: 4 - B
Total # Pages: 5 (A - B)
Finalized Date: 3-OCT-2005
Account: DIRMOR

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Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
Units		ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOR		5	1	0.01	1	10	2	0.01	5	1	0.01	1	10	2
92-1260		612	2	1.02	29	880	20	0.01	<5	217	0.36	110	<10	138
92-1280		1240	2	0.92	34	890	37	0.02	<5	190	0.40	151	<10	172
92-1300		324	2	0.78	15	650	46	0.02	<5	179	0.42	146	<10	93
92-1320		574	2	1.02	25	780	38	<0.01	7	218	0.41	132	<10	144
92-1340		417	2	1.10	21	610	25	<0.01	<5	209	0.38	117	<10	109
92-1360		530	2	1.08	21	660	29	<0.01	<5	208	0.36	106	<10	114
92-1380		376	2	1.02	27	570	33	0.01	<5	211	0.39	130	<10	129
92-1400		494	3	1.02	20	530	19	<0.01	<5	196	0.35	108	<10	120
92-1420		397	2	1.10	19	620	24	<0.01	<5	202	0.35	102	<10	106
92-1440		689	2	1.12	29	740	20	<0.01	<5	214	0.36	114	<10	148
92-1460		524	5	0.73	17	540	32	0.01	<5	144	0.41	144	<10	92
92-1480		735	4	1.06	25	810	22	<0.01	<5	198	0.37	112	<10	138
92-1500		447	4	0.68	20	660	22	<0.01	<5	127	0.41	146	<10	99
92-1520		475	2	1.08	24	760	26	0.01	<5	194	0.39	118	<10	114
92-1540		516	2	1.12	28	830	21	0.01	<5	202	0.41	130	<10	119
92-1560		467	2	1.10	23	900	19	0.01	<5	194	0.39	124	<10	113
92-1580		1180	4	1.06	26	870	31	0.01	<5	198	0.39	133	<10	142
92-1600		570	2	1.09	23	680	19	<0.01	<5	196	0.38	122	<10	118
92-1620		418	6	0.89	23	750	42	0.02	<5	182	0.41	146	<10	136
92-1640		382	1	1.10	20	680	25	<0.01	<5	188	0.37	112	<10	107
92-1660		380	2	1.02	19	650	26	0.01	<5	182	0.37	109	<10	103
92-1680		404	2	1.06	19	580	29	<0.01	<5	187	0.37	114	<10	116
92-1700		351	1	1.00	24	880	28	0.02	<5	182	0.38	116	<10	120
92-1720		339	2	0.96	22	1020	29	0.01	<5	183	0.39	130	<10	100
92-1740		375	3	0.95	23	660	19	<0.01	5	180	0.35	119	<10	94
92-1760		328	2	1.04	22	770	23	0.01	<5	192	0.35	117	<10	97
92-1780		387	2	0.87	21	540	26	<0.01	<5	164	0.35	120	<10	97
92-1800		457	4	0.74	32	690	27	0.01	<5	145	0.38	148	<10	122
92-1820		991	3	0.99	38	610	39	<0.01	<5	192	0.34	130	<10	148
92-1840		506	3	1.06	26	700	27	0.01	<5	195	0.35	112	<10	106
92-1860		603	2	0.93	28	660	31	0.01	<5	171	0.33	110	<10	116
92-1880		281	4	0.81	24	1070	37	0.05	<5	157	0.39	134	<10	100
93-1400		285	5	0.92	23	840	35	0.02	<5	171	0.38	138	<10	95
93-1420		506	5	1.00	28	970	29	0.02	8	185	0.42	148	<10	120
93-1440		294	5	0.96	22	830	32	0.03	<5	170	0.38	131	<10	89
93-1460		234	5	0.69	17	1020	28	0.03	6	130	0.35	126	<10	94
93-1480		250	3	0.90	20	1000	23	0.03	7	162	0.38	125	<10	87
93-1500		236	3	0.86	18	1070	21	0.02	<5	152	0.35	118	<10	68
93-1520		208	4	0.88	23	1340	28	0.04	5	164	0.34	122	10	90
93-1540		273	4	0.99	19	930	25	0.02	<5	166	0.36	118	<10	87



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Page: 5 - A

Total # Pages: 5 (A - B)

Finalized Date: 3-OCT-2005

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CERTIFICATE OF ANALYSIS VA05080130

Sample Description	Method Analyte Units LOR	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %
		0.02	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	0.01	0.01
93-1560		0.10	<0.5	6.12	25	950	1.2	<2	0.77	<0.5	6	64	29	3.07	1.43	0.70
93-1580		0.10	<0.5	6.60	23	1240	1.3	<2	0.68	<0.5	5	77	29	3.43	1.54	0.73
93-1600		0.06	0.6	6.46	21	1310	1.3	<2	0.64	<0.5	4	76	23	3.00	1.49	0.70
93-1620		0.12	<0.5	6.02	24	1060	1.2	<2	0.74	<0.5	5	70	23	2.80	1.39	0.68
93-1640		0.14	<0.5	6.08	24	1130	1.2	<2	0.69	<0.5	4	71	20	2.76	1.45	0.68
93-1660		0.12	0.5	6.38	26	1180	1.3	<2	0.64	<0.5	5	74	23	3.09	1.51	0.71
93-1680		0.12	<0.5	6.37	18	1060	1.3	<2	0.69	<0.5	6	73	24	3.13	1.46	0.71
93-1700		0.12	<0.5	6.51	24	1140	1.4	<2	0.67	<0.5	6	76	24	3.50	1.58	0.74
93-1720		0.10	<0.5	7.02	41	1270	1.5	<2	0.75	<0.5	7	78	30	3.39	1.70	0.83
93-1740		0.10	0.5	5.68	10	1150	1.1	<2	0.80	<0.5	4	70	16	2.55	1.31	0.62
93-1760		0.18	0.5	5.62	<5	1240	1.1	<2	0.84	<0.5	4	63	21	2.44	1.26	0.62
93-1780		0.16	0.6	5.62	13	1200	1.1	<2	0.85	<0.5	6	60	22	2.48	1.25	0.64
93-1800		0.10	<0.5	5.64	17	1390	1.1	<2	0.66	<0.5	6	73	21	2.67	1.26	0.57



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BOX 75

TAGISH YT Y0B 1T0

Page: 5 - B

Total # Pages: 5 (A - B)

Finalized Date: 3-OCT-2005

Account: DIRMOR

CERTIFICATE OF ANALYSIS VA05080130

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	
		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sr	Ti	V	W	Zn
		ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		5	1	0.01	1	10	2	0.01	5	1	0.01	1	10	2
93-1560		292	4	1.04	22	970	29	0.02	<5	175	0.34	111	<10	93
93-1580		296	6	0.93	22	1160	38	0.03	7	164	0.40	136	<10	98
93-1600		236	5	0.90	23	1230	35	0.04	<5	160	0.39	133	<10	90
93-1620		275	4	0.97	21	850	29	0.02	<5	171	0.37	118	<10	87
93-1640		274	4	0.94	23	790	30	0.02	6	168	0.37	123	<10	85
93-1660		343	5	0.90	23	890	34	0.02	5	164	0.38	131	<10	95
93-1680		294	4	0.93	24	930	33	0.03	<5	162	0.37	126	<10	95
93-1700		314	4	0.92	25	880	36	0.04	<5	160	0.38	138	<10	99
93-1720		392	4	1.08	28	1120	33	0.03	10	181	0.40	139	10	116
93-1740		300	2	0.97	18	870	28	0.03	<5	175	0.38	115	<10	75
93-1760		317	2	1.02	22	720	25	0.01	<5	185	0.36	107	<10	84
93-1780		357	1	1.07	21	650	27	0.01	<5	191	0.34	103	10	91
93-1800		311	2	0.87	20	970	32	0.04	<5	170	0.37	119	<10	92



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Page: 2 - A

Total # Pages: 2 (A - B)

Finalized Date: 23-AUG-2005

Account: DIRMOR

CERTIFICATE OF ANALYSIS VA05068940

Sample Description	Method Analyte Units LOR	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %
		0.02	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	0.01	0.01	0.01	
91-1200		0.08	0.5	5.97	31	3750	1.3	<2	0.69	<0.5	8	74	43	3.17	1.46	0.70
91-1220		0.08	0.8	5.83	40	5470	1.3	<2	0.75	<0.5	5	72	38	2.98	1.40	0.67
91-1240		0.08	<0.5	5.58	29	5520	1.3	<2	0.64	<0.5	5	69	37	2.69	1.42	0.63
91-1260		0.14	<0.5	5.93	24	4740	1.2	<2	0.70	<0.5	6	70	30	2.91	1.41	0.69
91-1280		0.10	0.6	5.92	18	5480	1.2	<2	0.75	<0.5	6	69	23	2.62	1.40	0.65
91-1300		0.12	<0.5	6.10	23	2560	1.2	<2	0.74	<0.5	7	66	42	3.12	1.38	0.77
91-1320		0.14	0.5	5.74	15	2000	1.1	<2	0.82	<0.5	6	70	22	2.60	1.31	0.66
91-1340		0.12	0.7	6.14	13	1800	1.2	<2	0.90	<0.5	6	69	26	2.83	1.36	0.71
91-1360		0.10	0.8	5.95	14	1700	1.2	<2	0.82	<0.5	8	69	29	2.97	1.30	0.69
91-1380		0.14	0.6	6.00	14	1600	1.2	<2	0.86	<0.5	7	66	35	2.97	1.28	0.70
91-1400		0.14	<0.5	6.01	18	2120	1.2	<2	0.75	<0.5	6	73	27	2.99	1.34	0.65
91-1420		0.08	0.8	6.44	17	2080	1.3	<2	0.63	<0.5	6	80	31	2.88	1.44	0.61
91-1440		0.10	0.5	5.92	17	1880	1.2	<2	0.69	<0.5	4	73	15	2.43	1.36	0.58
91-1460		0.12	0.5	5.69	12	1800	1.2	<2	0.66	<0.5	4	71	20	2.56	1.34	0.58
91-1480		0.10	1.0	6.41	12	2090	1.3	<2	0.65	<0.5	6	87	31	3.06	1.46	0.58
91-1500		0.26	0.9	6.43	14	2020	1.4	<2	0.79	<0.5	9	76	44	3.24	1.46	0.64
91-1520		0.12	0.7	6.09	14	1640	1.2	<2	0.79	<0.5	6	78	27	3.06	1.38	0.65
91-1540		0.12	1.1	5.55	12	2070	1.1	<2	0.70	<0.5	5	71	27	3.00	1.24	0.57
91-1560		0.12	1.3	6.18	24	2010	1.3	<2	0.61	<0.5	7	86	32	3.93	1.38	0.55
91-1580		0.10	1.4	6.67	15	2150	1.3	<2	0.64	<0.5	6	84	28	3.22	1.50	0.63
91-1600		0.16	1.5	6.37	15	1860	1.3	<2	0.75	<0.5	4	81	24	3.00	1.43	0.64
91-1620		0.16	1.0	6.12	16	2080	1.2	<2	0.71	<0.5	6	78	16	2.81	1.42	0.62
91-1640		0.10	1.1	5.70	19	2710	1.2	<2	0.66	<0.5	5	76	25	2.80	1.35	0.55
91-1660		0.10	1.1	5.74	11	2540	1.2	<2	0.60	<0.5	5	78	17	2.53	1.38	0.53
91-1680		0.14	0.8	6.16	12	2000	1.2	<2	0.60	<0.5	5	80	28	2.60	1.42	0.57
91-1700		0.18	<0.5	6.07	14	2250	1.2	<2	0.77	<0.5	6	79	24	2.90	1.34	0.69
91-1720		0.16	<0.5	5.86	15	2200	1.2	<2	0.72	<0.5	6	72	24	2.91	1.28	0.64
91-1740		0.18	<0.5	5.80	13	1980	1.2	<2	0.75	<0.5	6	72	24	2.79	1.29	0.63
91-1760		0.10	<0.5	6.21	18	2300	1.3	<2	0.60	<0.5	5	84	22	3.01	1.40	0.61
91-1780		0.20	0.5	6.11	13	1720	1.2	<2	0.71	<0.5	5	80	21	2.96	1.32	0.63
91-1800		0.12	<0.5	5.58	15	1890	1.1	<2	0.59	<0.5	5	74	22	2.74	1.26	0.51
91-1820		0.14	<0.5	5.41	14	1540	1.1	<2	0.69	<0.5	7	69	26	2.71	1.22	0.54
91-1840		0.12	0.7	5.65	17	1600	1.2	<2	0.43	<0.5	6	84	15	3.92	1.24	0.48
91-1860		0.10	<0.5	5.18	14	2980	1.1	<2	0.43	<0.5	4	81	20	3.08	1.22	0.47
91-1880		0.10	<0.5	6.48	14	4630	1.4	<2	0.57	<0.5	4	89	20	2.85	1.53	0.60
91-1900		0.06	<0.5	6.63	17	3370	1.4	<2	0.65	<0.5	8	95	20	3.51	1.54	0.64
91-1920		0.08	<0.5	5.83	8	2900	1.2	<2	0.64	<0.5	4	77	19	2.59	1.33	0.58
91-1940		0.10	<0.5	6.06	7	2420	1.2	<2	0.69	<0.5	4	78	22	2.79	1.37	0.61
91-1960		0.14	<0.5	6.09	11	1860	1.1	<2	0.88	<0.5	5	69	22	2.88	1.30	0.68



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Page: 2 - B

Total # Pages: 2 (A - B)

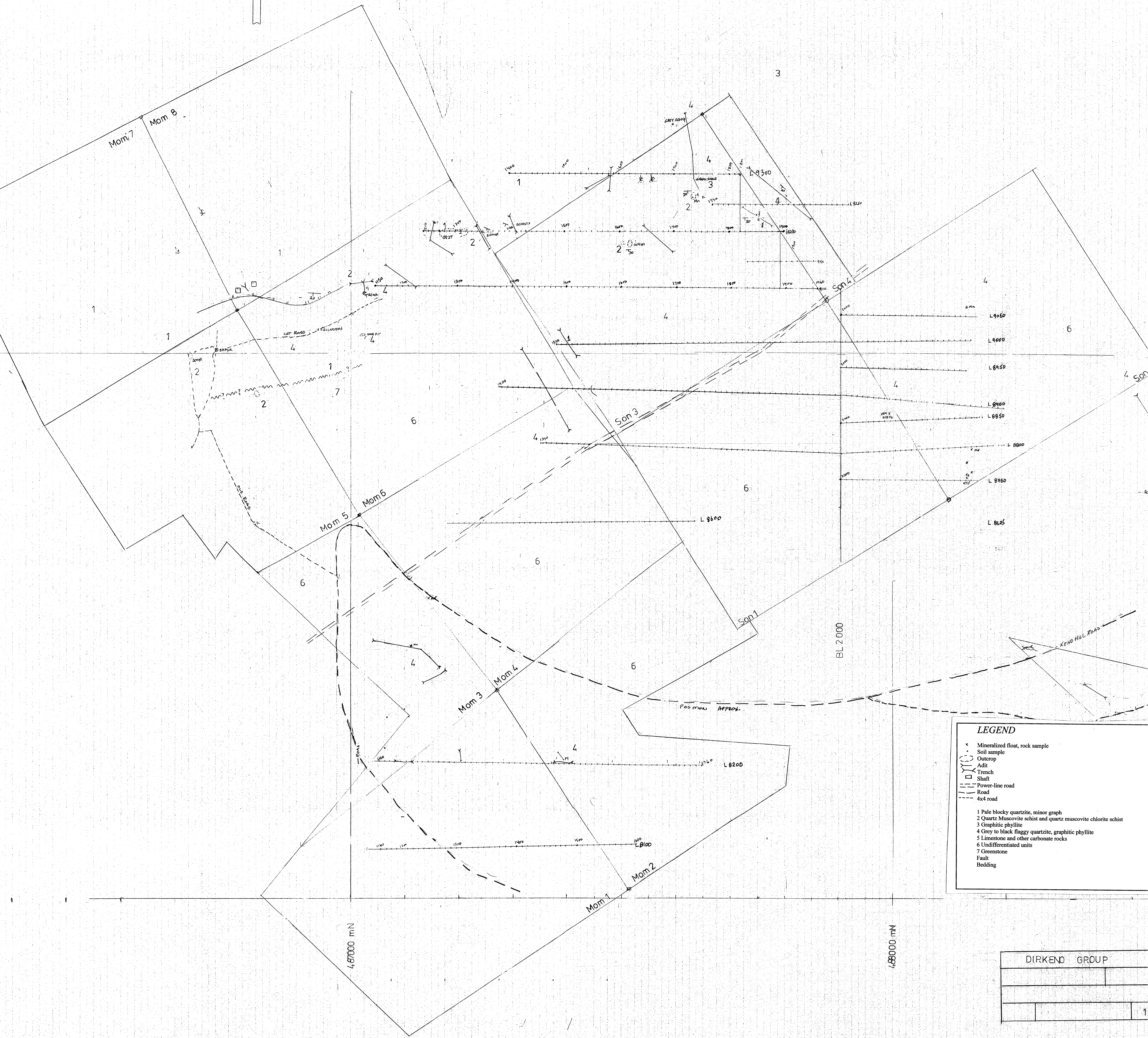
Finalized Date: 23-AUG-2005

Account: DIRMOR

CERTIFICATE OF ANALYSIS VA05068940

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 5	Sr ppm 1	Ti % 0.01	V ppm 1	W ppm 10	Zn ppm 2
91-1200		553	3	0.91	29	670	24	0.02	5	153	0.37	136	<10	97
91-1220		355	4	0.92	25	780	126	0.02	<5	163	0.38	132	<10	94
91-1240		330	4	0.86	22	510	24	0.01	<5	148	0.38	130	<10	80
91-1260		364	3	0.92	23	600	22	0.01	<5	162	0.39	131	<10	86
91-1280		348	4	1.02	21	530	21	0.01	<5	177	0.37	128	<10	81
91-1300		455	2	0.98	30	600	21	0.01	<5	160	0.37	123	<10	98
91-1320		308	3	1.06	22	650	22	0.01	5	178	0.37	120	<10	81
91-1340		376	2	1.14	25	740	23	0.01	<5	191	0.36	125	<10	95
91-1360		441	3	1.04	28	750	27	0.01	<5	178	0.38	126	<10	101
91-1380		442	3	1.10	29	680	25	0.01	<5	186	0.37	119	<10	105
91-1400		345	5	0.99	27	580	27	0.01	<5	180	0.35	130	<10	102
91-1420		377	5	1.01	26	550	32	0.01	<5	189	0.37	144	<10	112
91-1440		269	5	1.02	20	520	23	0.01	<5	186	0.37	130	<10	83
91-1460		281	6	1.00	24	480	26	0.01	5	180	0.35	127	<10	93
91-1480		293	7	0.95	25	740	44	0.02	<5	186	0.38	144	<10	105
91-1500		571	8	1.11	38	670	40	0.01	<5	204	0.34	135	<10	166
91-1520		386	4	1.07	26	650	44	0.01	<5	194	0.36	127	<10	113
91-1540		376	5	0.89	22	720	60	0.02	<5	168	0.34	117	<10	115
91-1560		425	5	0.83	25	990	71	0.03	5	172	0.40	150	<10	120
91-1580		290	6	1.00	25	810	90	0.03	6	178	0.38	146	<10	125
91-1600		303	3	1.03	21	810	80	0.02	<5	187	0.37	132	<10	110
91-1620		336	3	0.90	19	670	76	0.01	<5	159	0.35	136	<10	76
91-1640		318	4	0.82	21	620	82	0.01	<5	156	0.37	128	<10	104
91-1660		293	4	0.83	18	480	76	0.01	<5	155	0.38	127	<10	89
91-1680		226	3	0.88	21	910	86	0.03	<5	161	0.40	134	<10	96
91-1700		277	3	0.96	21	820	26	0.02	<5	173	0.38	131	<10	75
91-1720		307	3	0.92	24	670	23	0.01	<5	168	0.35	124	<10	80
91-1740		313	3	0.95	23	730	22	0.01	<5	172	0.34	121	<10	79
91-1760		306	4	0.85	21	860	26	0.03	<5	163	0.37	136	<10	83
91-1780		310	2	0.90	23	860	27	0.01	<5	164	0.37	128	<10	87
91-1800		254	3	0.74	22	740	34	0.02	<5	146	0.30	119	<10	85
91-1820		294	3	0.87	26	710	39	0.01	<5	160	0.32	108	<10	99
91-1840		402	4	0.58	22	940	54	0.04	<5	118	0.36	134	<10	95
91-1860		253	5	0.57	21	1010	45	0.03	5	120	0.33	129	<10	85
91-1880		231	6	0.86	22	840	38	0.03	<5	168	0.38	153	<10	81
91-1900		441	6	0.89	24	720	36	0.01	<5	174	0.41	156	<10	99
91-1920		239	5	0.89	19	760	20	0.03	<5	161	0.38	134	<10	66
91-1940		260	5	0.94	20	720	22	0.02	5	173	0.38	137	<10	71
91-1960		295	4	1.13	23	620	22	0.01	<5	193	0.37	126	<10	73

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- x Mineralized float, rock sample
- Soil sample
- Outcrop
- Adit
- Trench
- Shaft
- Power-line road
- Road
- - - 4x4 road

1 Pale blocky quartzite, minor graph
2 Quartz, muscovite schist and quartz muscovite chlorite schist
3 Graphitic phyllite
4 Grey to black flaggy quartzite, graphitic phyllite
5 Limestone and other carbonate rocks
6 Undifferentiated units
7 Greenstone
Fault
Bedding

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