

094500

**REPORT ON THE  
2004 SOIL SAMPLING, MAGNETOMETER AND VLF\_EM SURVEYS  
ON THE HALCYON JOINT VENTURE PROPERTY,  
CLEAR CREEK AREA, YUKON**

**Quartz claims**

Bell 1 to Bell 9	YC20876 to YC 20884
Ron 1	YC21865
Dan 1	YC21866

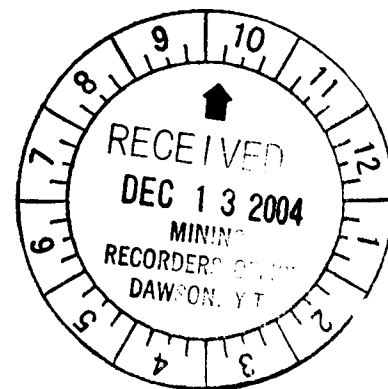
For work done September 10, 17 to 20 and 21, 2004

By

Scott Casselman B.Sc, P. Geo.  
Aurora Geosciences Ltd  
108 Gold Road  
Whitehorse, Yukon, Y1A 2W3

For

Kingfisher Syndicate  
304 - 445 West 14<sup>th</sup> Avenue  
Vancouver, British Columbia, V3A 7R3



Location: Latitude 63° 50' N, Longitude 137° 27' W  
Mining District: Dawson  
NTS: 115P/14  
Date: December 2004

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## 1.0 SUMMARY

The Kingfisher Syndicate contracted Aurora Geosciences Ltd to conduct an exploration program on the Halcyon Joint Venture Property during the fall of 2004. The program consisted of establishing a grid, soil sampling, magnetometer and VLF-EM surveying and was conducted over a four day period. This report includes a review of historical exploration work conducted in the area by other operators.

The Property is located 360 km north of Whitehorse or 75 km west-northwest of Mayo, Yukon, on Squaw Creek on NTS map sheet 115P/14 in the Dawson Mining District. Access to the property is by way of the Barlow Dome Road, that runs from the North Klondike Highway near Barlow Lake, for approximately 20 km to the property.

The soil sample program returned a few, scattered anomalous gold values  $> 10.0$  ppb, however there were no significant anomalous areas defined. The arsenic geochemistry identified a weak anomalous area in the north-eastern part of the grid that is coincident with a north westerly trending magnetic anomaly and VLF-EM conductor. Two other northwest trending magnetic anomalies were also identified.

Recommendations for future work on the property are to extend the soil sample grid and the magnetic and VLF-EM surveying. A mapping program should also be conducted throughout the property. This would be followed by hand trenching. An estimated budget for this program is \$40,000.

## 2.0 INTRODUCTION

The Kingfisher Syndicate contracted Aurora Geosciences Ltd to conduct an exploration program on the Halcyon Joint Venture Property during the fall of 2004. The program consisted of establishing a grid, soil sampling, magnetometer and VLF-EM surveying.

The crew consisted of Kel Sax (geological engineer) and Andrea Langerud (geological technician). The crew mobilized to the area from Whitehorse on September 10 and established a tent camp. The crew conducted work in the area for others from September 11 to 16, then worked the on the Halcyon Joint Venture project from September 17 to 20 and returned to Whitehorse on September 21. Shortly after arriving in the area a snowstorm blanketed the area with 20 cm of snow, hampering the exploration program.

This report includes a review of historical exploration work conducted in the area by other operators. The author is a professional geologist and supervised the crew conducting the field program. However, the author has not set foot on the property. The author has relied on data, interpretation, and information supplied by others noted above and listed in the References: primarily assessment reports on record with the Yukon Territorial Government (previously federal Department of Indian and Northern Affairs).

## 3.0 PROPERTY LOCATION AND ACCESS

The Halcyon Joint Venture Property is located 360 km north of Whitehorse or 75 km west-northwest of Mayo, Yukon. The claims are on Squaw Creek, a small tributary of Clear Creek on NTS map sheet 115P/14 in the Dawson Mining District and are centered at 63° 50' 00" latitude and 137° 27' longitude (Figure 1).

The project area is accessible by the Barlow Dome Road, a narrow gravel road that runs along the ridge on the north side of Clear Creek from the North Klondike Highway near Barlow Lake, for approximately 20 km to the property.

## 4.0 CLAIM STATUS

The claims are plotted on Figure 2. Claim information is as follows:

Table 1. Claim Information

Claim Name	Grant Number	Expiry Date *
Bell 1 to Bell 9	YC20876 to YC 20884	July 12, 2010
Ron 1	YC21865	September 25, 2006
Dan 1	YC21866	September 25, 2006

\*Pending acceptance of this report for assessment purposes.

The claims are owned 100% by Robert S. Adamson of the Kingfisher Syndicate.

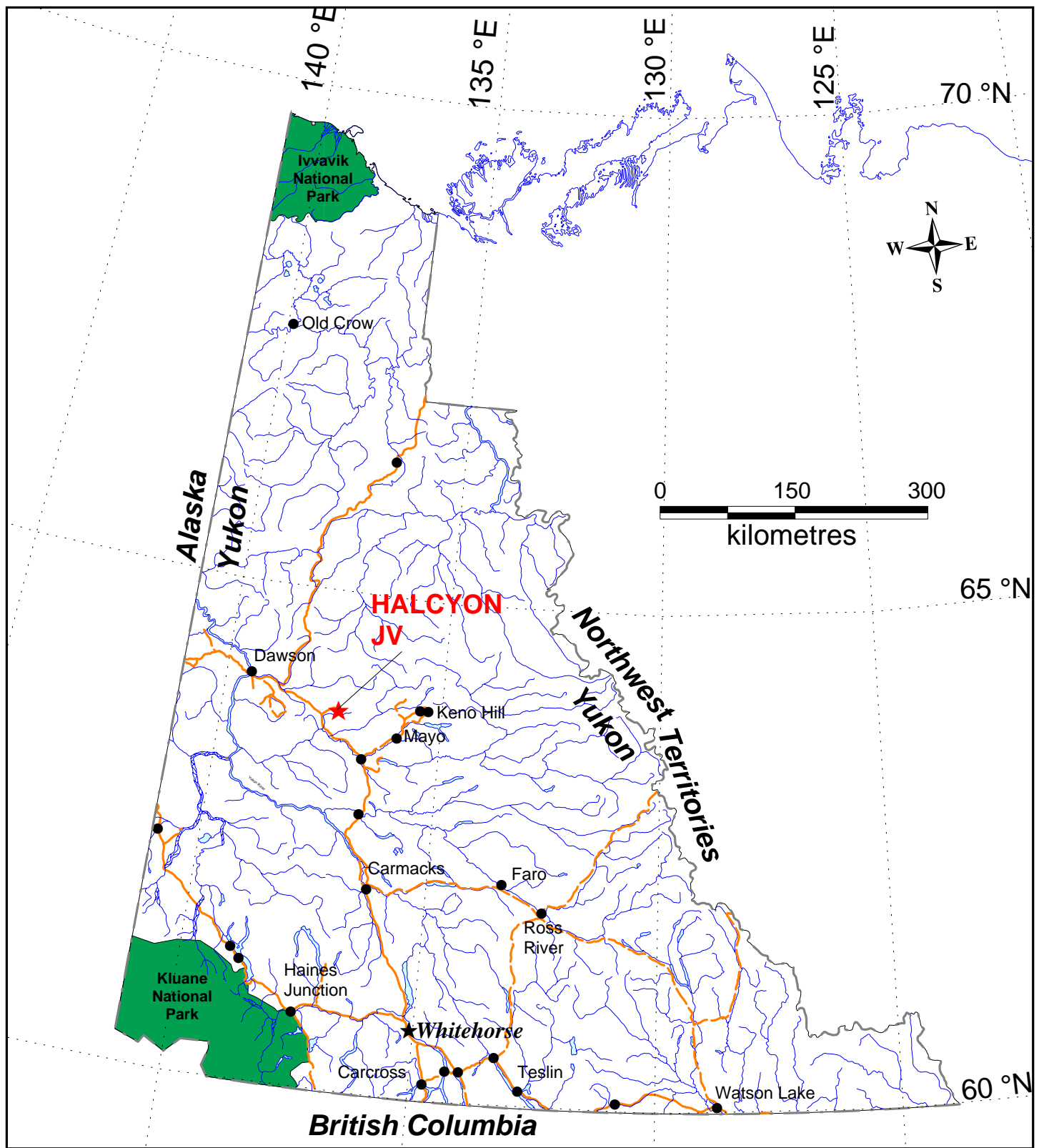
The land in which the mineral claims are situated is Crown Land and falls under the jurisdiction of the Government of Yukon. First Nation Settlement Land areas belonging to the Tr'ondek Hwech'in First Nation lie 3 km northwest of the mineral claims, on the north side of the Barlow Dome access road.

## **5.0 PHYSIOGRAPHY AND CLIMATE**

The project area is in the Syenite Range Mountains on the north side of the Tintina Trench. The property covers a south-facing slope in gentle rounded mountainous terrain. Elevations range from about 2000 feet to 4000 feet above sea level. The property area is sparsely treed, with spruce, pine, birch, alder, and locally with considerable buck brush.

The area experiences cold dry winters and hot dry summers. Snow usually begins accumulating in late September or early October and is generally melted by late May to early June. Temperatures range from highs in the mid 30<sup>o</sup>'s in summer to lows of -50<sup>o</sup> C in winter. North facing slopes are generally underlain by permafrost.

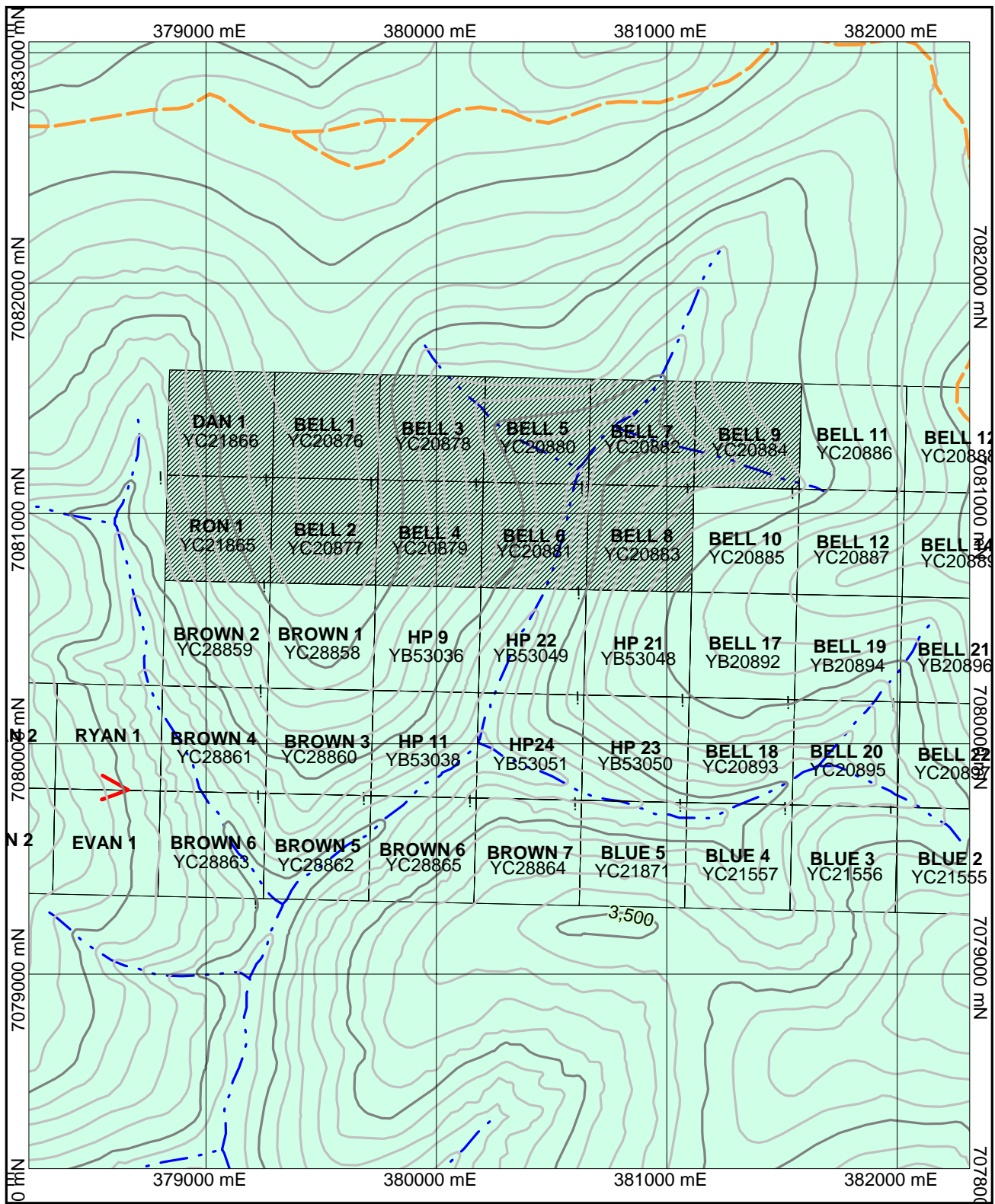
The nearest major city centre is Dawson, a supply centre for this region with an ample labour force. Power is available along the North Klondike Highway. Water resources are abundant in the project area in flowing streams.



**KINGFISHER SYNDICATE  
HALCYON JOINT VENTURE  
LOCATION MAP**

Figure 1

December 12, 2004



**KINGFISHER SYNDICATE  
HALCYON JOINT VENTURE  
CLAIM LOCATION MAP**

Dawson Mining District 115P/14  
Figure 2 November 16, 2004

Scale = 1:25,000

NAD 83 UTM, Zone 8

Magnetic declination = 29.16 deg.

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## 6.0 HISTORY

The Clear Creek area has a long history of placer gold production and mineral exploration for silver, gold, antimony, copper, tin and tungsten. The majority of work has been conducted on the Clear Creek Property located on Left Clear Creek, 5 km east of the Halcyon Joint Venture Property.

In 1971, a joint venture between Silver Standard Mines Ltd and Canada Tungsten Mining Corp staked claims in the area following the release of GSC Open File 51 indicating anomalous tungsten, gold and tin in the area. United Keno Hill Mines Ltd and Standard Oil Company of B.C. Ltd also acquired land in the area during this time. The staking generally occurred in the Left Clear Creek area. These companies conducted soil sampling and geological mapping programs on their properties.

In 1978 and 1979, Cominco Ltd conducted programs of stream sediment sampling, soil sampling and prospecting on their NEL claims at the headwaters of Forty Mile Creek, 20 km to the northeast of the Halcyon Joint Venture Property. They were focused on anomalous tin and silver values indicated on government regional stream sediment geochemical samples in the area. They obtained very anomalous Sn values up to 18,100 ppm from stream sediment samples.

In 1980 and 1981, Canada Tungsten Mining Corporation Ltd. acquired large blocks of claims through staking and options in the Dublin Gulch and Clear Creek areas and carried out extensive programs, in search of tungsten and, to a much lesser extent, tin and gold. On Left Clear Creek, Canada Tungsten did extensive mapping and geochemical surveys. Some trenching and sampling was done on tungsten bearing skarns but no work was done to follow up on geochemical gold anomalies. The original claim group was gradually reduced to the Rain and Wind claims, which consisted of several non-contiguous claims covering various mineral showings and anomalies. Canada Tungsten later dropped its option.

In 1986, prospector Scottie Thom discovered gold-bearing massive pyrite float on the south side of Left Clear Creek. In 1987, placer operations conducted by Blackstone Placer Mining Company encountered heavy pyrite mineralization in a deep trench cutting into bedrock. The showing and properties were later optioned by Secret Pass Minerals Corp and, in 1987, they conducted a program of line cutting, geophysical surveying, soil and rock sampling. The property was later optioned to Cambridge Resources Ltd, who in 1989 conducted trenching and drilled 276 m in 4 diamond drill holes. The drill program encountered one significant intersection containing 0.546 oz/t gold over 0.49 m.

In 1995, Kennecott Canada Inc optioned the Clear Creek Property and conducted an extensive program of soil sampling, geological mapping, trenching, road construction and reverse circulation drilling on the Rhosgobel Stock. Kennecott dropped its option later that year. In 1996, New Millenium Mining Inc acquired the project and in the fall 2004 it signed a deal to vend the project to Stratagold Corp.

There is no record of any previous exploration work having been conducted on the Halcyon Joint Venture property.

## 7.0 GEOLOGICAL SETTING

### 7.1 Regional Geological Setting

The Halcyon Joint Venture Property is within the “Tintina Gold Belt”. The area has a long history of placer gold production and mineral exploration for silver, gold, antimony, copper, tin and tungsten. A number of Intrusive-hosted gold deposits and occurrences have been discovered in the area associated with Tombstone Suite intrusive bodies. The most significant of which is the Dublin Gulch Deposit, located 80 km east of the Property. The Dublin Gulch deposit has reserves of 50.8 million tonnes grading 0.93 g/t gold. Other Tintina Gold Belt occurrences in the area are the Clear Creek Property located 3 km east of the Halcyon JV and the Sheelite Dome Property located 50 km to the east.

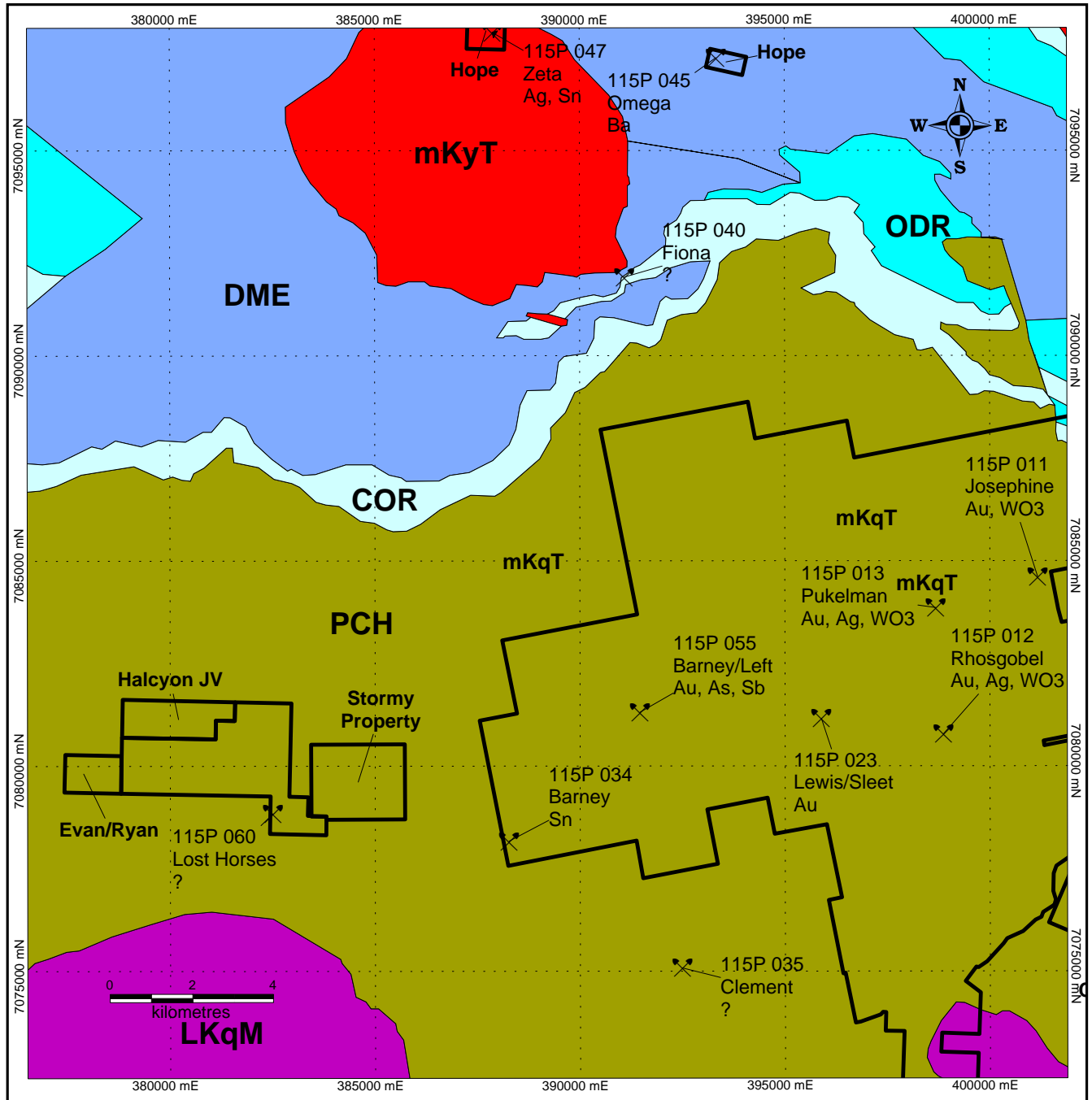
The property is underlain by an inlier of Upper Proterozoic to Lower Cambrian rocks of the Hyland Group. The Hyland Group is overlain by Upper Cambrian and Ordovician Rabbitkettle Formation, which is in turn overlain by the Ordovician to Lower Silurian Road River Group and capped by the Devonian to Mississippian Earn Group.

The Hyland Group (**PCH**) is comprised of thin to thick bedded, brown to pale green shale, fine to coarse grained quartz-rich sandstone, quartz pebble conglomerate, argillaceous limestone, phyllite, psammite and minor marble (Gordey, et. al., 1999). The Rabbitkettle Formation (**COR**) consists of thin bedded, wavy banded, silty limestone and grey lustrous calcareous phyllite, limestone breccia and conglomerate, laminated grey siltstone, chert, slate and local mafic flows, breccia and tuff. The Road River Group (**ODR**) is comprised of black graptolitic shale and chert, minor argillaceous limestone and dolomitic siltstone. The Earn Group (**DME**) consists of thin-bedded slate with interbedded chert-quartz arenite and wacke, chert pebble conglomerate, black siliceous siltstone, nodular and bedded barite and rare limestone.

The layered rocks are intruded by mid-Cretaceous Tombstone Suite intrusions to the north and east and by lower Cretaceous McQueston Suite intrusions to the south. Two types of Tombstone Suite intrusion are recognized in the area; medium to coarse-grained biotite-hornblende-clinopyroxene syenite, quartz syenite, granite, monzogranite, diorite and tinguaitite (**mKyT**); and medium- to coarse-grained, locally porphyritic biotite hornblende, clinopyroxene quartz monzonite and granodiorite (**mKqT**). The McQueston Suite is comprised of medium- to coarse-grained, locally porphyritic and k-feldspar megacrystic biotite ± muscovite granite and quartz monzonite.

### 7.2 Property Geology

There is no record of any property scale geological mapping having been conducted on the Halcyon Joint Venture Property. The regional geological mapping shows the property to be completely underlain by Hyland Group shale, sandstone, quartz pebble conglomerate, argillaceous limestone, phyllite, psammite and minor marble.



**GEOLOGICAL LEGEND**

- DME**  
Devonian and Mississippian - Earn Assemblage  
Slate with black, siliceous shale and chert-quartz arenite and wacke, chert pebble conglomerate, bedded barite and rare limestone
- ODR**  
Ordovician to Lower Devonian - Road River Assemblage  
Shale and black chert, siltstone and argillaceous limestone
- COR**  
Upper Cambrian and Ordovician - Rabbitkettle Assemblage  
Silty limestone and calcareous phyllite, limestone breccia and conglomerate and quartzose siltstone
- PCH**  
Upper Proterozoic to Lower Cambrian - Hyland Assemblage  
Shale, quartz-rich sandstone, quartz pebble conglomerate, argillaceous limestone and phyllite
- mKyT**  
mid Cretaceous - Tombstone Suite  
Biotite-hornblende-clinopyroxene syenite, quartz syenite, granite, monzogranite and tinguaita
- mKqT**  
medium to coarse-grained porphyritic biotite-hornblende, clinopyroxene granite, quartz monzonite and granodiorite
- LKqM**  
Lower Cretaceous - McQueston Suite  
Medium- to coarse-grained porphyritic K-feldspar biotite-muscovite granite and quartz monzonite

✂ Yukon Minfile occurrence #  
Name  
Commodities

scale = 1:150,000  
NAD 83 UTM, zone 8

**KINGFISHER SYNDICATE  
HALCYON JOINT VENTURE  
REGIONAL GEOLOGY MAP  
Dawson Mining District 115P/14  
Figure 3 November 18, 2004**

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## 8.0 2004 EXPLORATION PROGRAM

The 2004 exploration program on the Halcyon Joint Venture Property consisted of three days of gridding and soil sampling and one day of magnetometer and VLF-EM surveying. The grid was established by compass, hip chain and flagging with lines spaced 100 m apart and samples collected at 50 m intervals along the lines. A total of 108 soil samples were collected.

The magnetic survey was conducted with a GEM Instruments Proton Procession magnetometer with GPS location and readings were corrected against a base station unit that ran throughout the survey. Reading were taken at 25 m intervals. The VLF-EM survey was conducted with a Geonics EM-16 unit using the Cutler, Maine transmitter. The VLF-EM survey originally intended to use the Hawaii station, however, there were problems with that frequency.

## 9.0 GEOCHEMICAL ANALYTICAL PROCEDURE

All samples were sent to Acme Analytical Laboratories in Vancouver for processing. Acme is an ISO 9002 accredited facility.

The analytical procedure consisted of drying the samples then sieving to -80 mesh. A 15.0 gm sample of the -80-mesh material was then digested in 90 ml of aqua-regia solution and diluted to 300 ml with distilled water. This solution was then analyzed for gold and 36 elements by Inductively Coupled Plasma Mass Spectrometry (ICP-MS). Geochemical Analytical Certificates for the 2003 program are included in Appendix II.

## 10.0 CONCLUSIONS AND RECOMMENDATIONS

Results of the magnetic survey are plotted on Figure 4, the VLF-EM survey is plotted on Figure 5, Soil sample locations are plotted on Figure 6, soil sample results for gold, silver and arsenic are plotted on Figures 7, 8 and 9, respectively. Statistical analysis of the soil sample data for gold, silver and arsenic returned the following statistics:

Element	<u>Ag</u>	<u>Au</u>	<u>As</u>
# of samples	108	107	147
High	0.2 ppm	13.6 ppb	9.9 ppm
Low	<0.1 ppm	<0.5 ppm	2.5 ppm
Average	0.0 ppm	2.6 ppb	6.6 ppm
Standard Deviation	0.1 ppm	2.3 ppb	1.1 ppm

The results for silver returned no anomalous values with the majority of samples being below detection limits (ie. < 0.1 ppm). The gold geochemistry returned a few, scattered anomalous

values > 10.0 ppb, however there were no significant anomalous areas defined. The arsenic geochemistry identified a weak anomalous area in the north-eastern part of the grid.

The magnetic survey identified three slightly anomalous areas that appear to trend north westerly: one on the north eastern part of the grid; one in the central part of the grid; and one in the south western part of the grid. The northeast magnetic anomaly is coincident with the anomalous arsenic geochemistry. The magnetic anomaly in the central part of the grid is spotty and weakly coincident with the spotty gold geochemistry, but has no arsenic associated with it. The south-western anomaly is at the end of the line and has no significant gold or arsenic associated with it. All of the magnetic anomalies are open to the northwest and southeast.

The VLF-EM survey data was very noisy, however it does appear to indicate a weakly conductive zone in the northeast corner of the grid along the creek that is coincident with the arsenic and magnetic anomaly. This could represent a structure that is weakly mineralized and the creek is exploiting the weakness.

Recommendations for future work on the property are to extend the soil sample grid at 100 m line intervals and 25 m station intervals and continue the magnetic and VLF-EM surveying. A mapping program should be conducted throughout the property and may require some pits be dug if the bedrock exposure is poor. The magnetometer survey should help determine if there are any buried intrusive rocks in the area.

Finally, hand trenching may be required to follow-up any geochemical anomalies identified. An estimated budget for this program is \$40,000.

Respectfully Submitted,

Scott Casselman, B.Sc., P.Geo  
Geologist

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## 11.0 STATEMENT OF EXPENDITURES – Halcyon Project

## Contract Services - Aurora Geosciences Ltd

Crew mobilization/demobilization from Whitehorse to Clear Creek, including 1 person re-supply trip to Dawson by truck (divided between three jobs run in area)

- Kel Sax	- 3 days @ \$535	\$1,605.00
- Andrea Langerud	- 2 days @ \$401.25	802.50
- truck rental	- 3 days @ \$125	375.00
- vehicle mileage	- 1600 km @ \$0.45/km	720.00
- gas		320.00
- meals	- 5 person days @ \$35	<u>175.00</u>

TOTAL mob/demob 3,997.50

One third =

\$1,332.50

1,332.50

## Field Program

## Wages

- Kel Sax	- 4 days @ \$535.00	\$2,140.00
- Andrea Langerud	- 4 days @ \$401.25	1,605.00
Truck rental	- 4 days @ \$125	500.00
Truck mileage on site	- 20 km @ \$0.45/km	9.00
Fuel for truck and generator		10.00
Meals	- 8 person days @ \$35/pers day	280.00
Geophysical Equip rental	- 1 days @ \$240.75/day	240.75
Camp rental	- 4 days @ \$90.95	363.80
Consumables	-topo maps, flagging, sample bags, sample shipment, etc	120.34
Expiditing		93.92
Sample Analysis - Acme Labs		1,817.58
Report Writing - Aurora Geosciences Ltd		<u>\$2,675.00</u>

Total

\$ 11,187.89

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**17.0 STATEMENT OF EXPENDITURES****Exploration costs****Contract Services - Aurora Geosciences Ltd**

- crew mobilization/demobilization by truck from  
Whitehorse to Clear Creek \$1,391.00
- Gridding and soil geochemical sampling (includes wages,  
camp and truck rental and groceries for 4 days – 2 persons) \$4,815.00
- expenses (topo maps, sample shipment costs) 99.45

Sample Analysis - Acme Labs 2,472.44

Report Writing - Aurora Geosciences Ltd \$1,605.00

Total exploration costs \$ 10,382.89

**Claim staking costs**

- Claim staking (1 day) \$1,203.75
- claim recording fees 88.71

Total Claim Staking costs 1,292.46

**11.0 STATEMENT OF EXPENDITURES**

Contract Services - Aurora Geosciences Ltd	
- crew mobilization/demobilization	\$1,391.00
- Geophysical surveying (1 day)	\$1,430.05
- Gridding and soil geochemical sampling (4 days)	\$4,278.40
- expenses	100.34
Sample Analysis - Acme Labs	1,817.58
Report Writing - Aurora Geosciences Ltd	\$1,605.00
Total	<u>\$ 10,622.37</u>

## 12.0 REFERENCES

- Deklerk, R., 2002. Yukon Minfile, 2002, A Database of Mineral Occurrences. Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada.
- Feulgen, S. and Stephen, J. C., 1989. Initial Diamond Drilling Report on the Rain, Wind, Sleet Claims, Left Clear Creek, Yukon. Yukon Territorial Government Assessment Report # 92752.
- Gordey, S. P. and Makepeace, A. J., 1999. Yukon Digital Geology. Geological Survey of Canada, Open File D3826.
- Nagy, L. J., 1979. Geochemical Report on the NEL Claims 1-23. Yukon Territorial Government Assessment Report #90512.
- Stephen, J. C., 1988. Progress Report on Geophysics, Geochemistry and Mapping on the RAIN, WIND and SLEET Claims, Left Clear Creek, Yukon. Yukon Territorial Government Assessment Report # 92530.

**APPENDIX I**

**STATEMENT OF QUALIFICATIONS**

### Statement of Qualifications

I, Scott Casselman, P. Geo., certify that:

- 1) I reside at 33 Firth Road, Whitehorse, Yukon Territory, Y1A 4R5
- 2) I am a geologist employed by Aurora Geosciences Ltd. of Whitehorse, Yukon Territory.
- 3) I graduated from Carleton University in Ottawa, Ontario with a Bachelor of Science Degree in Geology in 1985 and have worked as a geologist since that time.
- 4) I am a member of the Association of Professional Engineers and Geoscientists of British Columbia, Registration No. 20032.
- 5) I compiled this report from data collected by Aurora Geosciences staff on the Halcyon Joint Venture Project during the summer of 2004.
- 6) I have not visited the Halcyon Joint Venture Property.
- 7) I am not aware of any material fact or material change with respect to the subject matter of this Technical Report that is not reflected in the Technical Report, the omission of which would make this Technical Report misleading.
- 8) I consent to the filing of this Technical Report with any stock exchange or other regulatory authority and any publication by them for regulatory purposes, including electronic publication in the public company files on their websites accessible by the public, of the Technical Report.

Dated this \_\_\_<sup>th</sup> day of \_\_\_\_\_, 2004, at Whitehorse, Yukon Territory.

Scott G. Casselman, BSc., P.Geo.

**APPENDIX II**

**GEOCHEMICAL ANALYTICAL CERTIFICATES**



GEOCHEMICAL ANALYSIS CERTIFICATE



Aurora Geosciences Ltd. PROJECT HALCYON JV File # A406089 Page 1

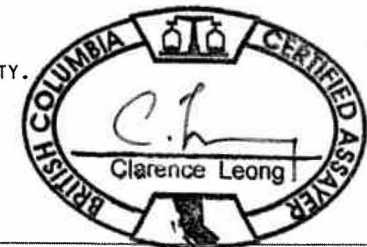
108 Gold Road, Whitehorse YT Y1A 2W3 Submitted by: Scott Casselman

Table with columns for SAMPLE#, Mo, Cu, Pb, Zn, Ag, Ni, Co, Mn, Fe, As, U, Au, Th, Sr, Cd, Sb, Bi, V, Ca, P, La, Cr, Mg, Ba, Ti, B, Al, Na, K, W, Hg, Sc, Tl, S, Ga, Se. Rows include various sample IDs like G-1, L16N 789+00E, etc., and a STANDARD DS5 row.

GROUP 1DX - 15.00 GM SAMPLE LEACHED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 300 ML, ANALYSED BY ICP-MS. (>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY. - SAMPLE TYPE: SOIL SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

DATE RECEIVED: OCT 4 2004 DATE REPORT MAILED: Oct 28/04



All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
L15N 792+00E	.7	13.1	9.2	42	<.1	13.0	4.9	122	1.64	6.6	.8	1.1	1.7	9	.1	.3	.1	32	.09	.037	15	18.4	.33	100	.028	<.1	1.04	.005	.02	.2	.03	1.5	.1	<.05	4	<.5
L15N 792+50E	.6	14.9	9.2	39	<.1	13.1	4.6	127	1.64	5.7	.7	1.7	.4	9	.1	.3	.1	30	.10	.045	16	18.8	.33	79	.019	<.1	.98	.005	.02	.1	.03	.8	.1	<.05	3	<.5
L15N 793+00E	.7	14.7	9.5	43	.1	13.2	4.8	133	1.81	6.7	.8	1.6	.3	11	.1	.3	.1	35	.11	.051	14	21.1	.36	100	.020	<.1	1.15	.006	.03	.2	.04	.7	.1	<.05	4	.5
L15N 793+50E	.7	22.7	12.2	55	.1	18.0	8.1	270	2.16	7.1	1.0	2.9	2.6	14	.1	.4	.1	37	.13	.042	26	23.4	.46	133	.038	<.1	1.25	.007	.03	.1	.02	1.9	.1	<.05	4	.5
L15N 794+00E	.7	15.1	13.3	41	<.1	12.0	4.2	125	1.87	6.9	.8	1.6	2.2	11	.1	.3	.2	32	.07	.039	30	19.3	.38	85	.021	<.1	1.09	.005	.03	.1	.02	1.2	.1	<.05	4	<.5
L15N 794+50E	.7	23.4	13.7	53	<.1	17.2	6.2	177	2.42	6.9	.9	3.2	7.7	12	.1	.4	.2	32	.06	.024	34	23.4	.48	86	.027	<.1	1.41	.005	.03	.1	.02	1.7	.1	<.05	4	<.5
L15N 795+00E	.8	8.2	10.8	36	<.1	10.7	4.0	130	2.04	7.6	.5	<.5	4.5	9	<.1	.4	.2	48	.06	.016	19	24.2	.35	86	.046	<.1	1.36	.005	.03	.1	.02	2.1	.1	<.05	5	<.5
L15N 795+50E	.8	19.7	14.7	49	<.1	12.4	5.0	131	2.37	5.3	.9	1.3	7.6	12	<.1	.3	.2	26	.05	.022	38	21.3	.45	61	.020	<.1	1.32	.004	.03	.1	.02	1.4	.1	<.05	4	<.5
L15N 796+00E	.7	23.1	13.0	52	<.1	15.3	5.1	165	2.26	6.2	1.1	.7	6.3	10	<.1	.4	.2	30	.07	.027	30	21.7	.46	89	.027	<.1	1.31	.005	.03	.1	.03	1.9	.1	<.05	4	<.5
L15N 796+50E	.6	15.5	14.2	44	<.1	11.0	3.9	131	2.23	6.9	.8	1.6	5.5	10	.1	.3	.2	35	.06	.035	28	23.2	.40	67	.021	<.1	1.41	.005	.03	.1	.03	1.7	.1	<.05	4	<.5
L15N 797+00E	.7	23.3	14.3	55	<.1	14.9	5.2	196	2.31	5.6	1.2	1.7	8.2	15	.1	.3	.2	27	.10	.029	44	19.9	.47	125	.030	<.1	1.17	.005	.03	.1	.03	1.9	<.1	<.05	4	.5
L15N 797+50E	.9	21.2	14.2	52	.1	14.4	5.0	163	2.28	6.4	1.0	2.1	3.6	11	.1	.4	.2	33	.07	.036	27	22.5	.42	91	.023	<.1	1.35	.005	.03	.1	.02	1.7	.1	<.05	4	<.5
L15N 798+00E	.6	19.2	11.9	51	<.1	16.4	7.1	231	1.99	5.3	.8	8.3	5.2	12	.1	.3	.1	30	.09	.032	31	20.9	.42	113	.035	<.1	1.14	.005	.03	.1	.01	1.8	.1	<.05	3	<.5
L15N 798+50E	.8	18.4	12.7	44	.1	14.8	5.1	156	1.88	5.5	.9	3.6	.5	10	.1	.3	.2	32	.07	.034	25	20.8	.36	107	.018	<.1	1.15	.006	.03	.1	.04	.8	.1	<.05	4	<.5
L15N 799+00E	.6	20.7	12.4	53	.1	17.7	8.1	222	2.04	5.5	1.0	1.0	4.4	10	.1	.3	.1	28	.08	.031	32	20.2	.40	125	.026	<.1	1.13	.004	.03	.1	.02	1.7	.1	<.05	3	<.5
RE L15N 799+00E	.5	21.4	13.5	57	.1	18.8	8.6	232	2.15	5.9	1.1	2.0	4.4	11	.1	.4	.2	30	.09	.033	34	21.4	.43	136	.029	<.1	1.20	.005	.03	.1	.02	1.8	.1	<.05	4	<.5
L15N 799+50E	.8	12.2	11.2	38	<.1	12.6	4.5	166	2.16	8.4	.6	1.1	4.1	7	.1	.4	.2	40	.05	.025	18	20.9	.30	68	.032	1	1.12	.005	.03	.2	.02	1.6	.1	<.05	4	<.5
L15N 800+00E	1.2	15.7	14.9	52	.1	15.5	6.0	204	2.87	8.8	.7	1.7	4.7	9	.1	.4	.2	41	.05	.035	25	22.7	.37	69	.031	<.1	1.27	.005	.03	.2	.02	1.5	.1	<.05	5	<.5
L15N 800+50E	1.0	19.3	17.6	59	.1	18.4	7.8	261	2.62	7.4	1.0	4.5	9.0	12	.1	.3	.2	31	.06	.031	31	20.7	.40	93	.026	<.1	1.28	.005	.03	.1	.03	1.6	.1	<.05	4	<.5
L15N 801+00E	.7	17.8	15.1	40	.2	13.9	4.5	92	1.76	4.2	1.2	.8	.4	11	.1	.2	.2	24	.06	.046	24	18.2	.31	104	.010	<.1	1.21	.005	.03	.1	.06	.6	.1	<.05	4	.5
L15N 801+50E	.9	17.9	18.2	44	.2	14.6	5.4	176	1.87	5.1	1.4	1.3	.5	11	.2	.2	.2	24	.06	.051	23	19.0	.32	105	.010	1	1.19	.005	.03	.1	.05	.6	.1	<.05	4	<.5
L15N 802+00E	.7	20.6	16.1	49	.1	15.6	6.1	139	1.92	5.4	1.6	1.0	1.3	16	.1	.2	.2	26	.08	.036	29	19.5	.36	142	.016	1	1.20	.006	.04	.1	.04	1.3	.1	<.05	4	<.5
L14N 789+00E	.7	16.6	12.3	49	.1	14.4	5.4	164	1.88	6.0	1.0	3.5	2.8	12	.1	.3	.2	27	.09	.040	24	16.8	.30	82	.025	1	.84	.005	.03	.1	.04	1.3	.1	<.05	3	<.5
L14N 789+50E	.6	14.5	13.1	45	.1	12.3	5.9	197	1.92	6.6	.9	2.1	1.4	10	.1	.3	.2	28	.08	.045	21	17.5	.29	84	.020	1	.94	.005	.03	.1	.04	1.1	.1	<.05	3	<.5
L14N 790+00E	.9	13.5	12.2	42	.1	11.6	5.2	187	1.89	7.2	.6	.9	1.3	10	.1	.4	.2	35	.06	.034	20	19.0	.30	88	.025	1	.98	.006	.03	.1	.04	1.2	.1	<.05	4	<.5
L14N 790+50E	.7	10.9	10.6	38	<.1	11.1	4.4	137	1.75	6.7	.7	1.6	1.9	10	<.1	.3	.2	31	.09	.033	18	19.0	.32	89	.029	1	1.01	.005	.03	.1	.04	1.3	.1	<.05	3	<.5
L14N 791+00E	.8	10.3	10.0	42	<.1	12.4	4.6	141	1.66	5.7	.6	2.9	.9	10	.1	.2	.2	28	.07	.029	23	16.2	.27	69	.022	1	.81	.005	.03	.2	.03	.9	.1	<.05	3	<.5
L14N 791+50E	.6	12.4	9.3	42	<.1	13.4	5.2	145	1.77	6.1	.6	2.5	2.0	10	.1	.3	.2	30	.09	.033	21	18.8	.33	91	.029	1	.95	.005	.03	.2	.03	1.3	.1	<.05	3	<.5
L14N 792+00E	.7	16.6	10.8	49	<.1	14.8	5.9	173	2.00	7.3	.8	3.8	2.6	11	.1	.5	.2	32	.12	.045	21	21.5	.37	97	.028	1	1.13	.005	.03	.2	.03	1.5	.1	<.05	3	<.5
L14N 792+50E	.6	16.8	11.4	36	.1	11.4	4.4	122	1.72	5.4	.9	.6	.2	10	.2	.2	.2	29	.08	.048	21	18.4	.30	88	.013	<.1	1.03	.005	.02	.1	.03	.4	.1	<.05	3	<.5
L14N 793+00E	.7	25.2	9.7	60	.1	21.2	8.9	310	2.30	7.9	.9	5.1	4.1	17	<.1	.5	.2	44	.17	.044	23	28.0	.51	239	.054	1	1.43	.008	.04	.1	.03	3.2	.1	<.05	4	<.5
L14N 793+50E	.7	20.7	9.5	49	.1	19.2	6.9	234	2.05	7.0	.8	1.5	3.8	17	.1	.4	.1	39	.16	.038	22	25.4	.43	193	.046	2	1.26	.007	.03	.1	.03	2.8	.1	<.05	4	.5
L14N 794+00E	.8	20.6	9.9	54	.1	19.3	6.8	242	2.12	6.5	1.0	2.3	4.2	15	.1	.5	.1	37	.14	.037	27	24.1	.44	166	.045	1	1.22	.007	.03	.1	.02	2.4	.1	<.05	4	<.5
L14N 794+50E	.7	21.1	9.3	53	.1	18.9	6.8	238	2.05	6.6	.8	1.5	4.5	15	.1	.4	.1	37	.15	.038	24	23.4	.43	185	.045	1	1.15	.006	.03	.1	.03	2.4	.1	<.05	3	<.5
STANDARD DS5	12.5	139.1	25.7	138	.3	25.1	11.8	779	2.91	17.8	6.2	42.6	2.9	47	5.4	3.9	6.2	61	.71	.088	13	188.3	.65	134	.109	18	2.02	.034	.13	4.8	.17	3.3	1.0	<.05	6	4.7

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
14N 795+00E	.7	17.5	13.5	43	<.1	15.6	6.3	162	2.11	7.3	.9	8.9	2.4	8	.1	.4	.2	32	.08	.035	20	21.4	.39	86	.020	1	1.32	.004	.03	.1	.04	1.6	.1	<.05	4	.6
14N 795+50E	.8	9.5	12.4	38	<.1	11.9	5.0	148	2.24	7.4	.5	.6	3.5	7	.1	.4	.2	46	.05	.020	14	21.2	.28	90	.022	1	1.39	.004	.02	.2	.03	1.7	.1	<.05	5	<.5
14N 796+00E	.6	6.6	10.1	26	<.1	7.3	2.6	82	1.61	5.9	.4	1.2	1.6	7	.1	.3	.2	33	.05	.018	13	16.9	.23	53	.018	1	.90	.004	.02	.1	.03	1.2	.1	<.05	4	<.5
14N 796+50E	.5	19.6	10.3	50	.1	17.1	7.1	240	1.98	5.9	1.1	1.5	6.5	15	.1	.4	.2	29	.13	.028	27	18.7	.44	139	.028	1	.93	.005	.02	.1	.02	2.2	<.1	<.05	3	<.5
14N 797+00E	.6	17.3	10.5	44	<.1	14.3	5.2	153	1.81	5.9	.9	9.5	3.6	9	.1	.4	.2	28	.10	.038	21	19.4	.39	83	.021	<.1	1.02	.004	.03	.1	.03	1.6	.1	<.05	3	.5
14N 797+50E	.7	20.4	9.9	50	<.1	16.6	6.9	227	1.94	7.1	.8	3.1	2.4	11	.1	.4	.1	35	.11	.036	18	22.5	.41	145	.028	1	1.09	.006	.03	.1	.03	2.1	.1	<.05	4	<.5
14N 798+00E	.6	20.5	10.7	47	<.1	15.0	6.0	202	1.92	5.6	.9	1.6	2.6	9	.1	.4	.2	31	.09	.039	22	21.0	.40	126	.026	1	1.10	.005	.03	.1	.03	2.0	.1	<.05	3	<.5
14N 798+50E	.6	19.2	10.7	50	<.1	15.8	7.0	240	1.98	6.9	.9	4.0	3.9	11	.1	.3	.2	35	.11	.041	21	21.7	.41	161	.028	1	1.11	.005	.03	.1	.02	2.4	.1	<.05	4	<.5
14N 799+00E	.8	13.0	12.2	46	<.1	13.9	6.4	216	2.27	7.2	.6	1.5	5.4	10	.1	.4	.2	32	.09	.035	22	18.5	.36	83	.027	1	.94	.004	.02	.2	.02	1.5	.1	<.05	3	.5
14N 799+50E	.6	17.2	10.7	51	<.1	16.7	5.8	168	1.93	5.5	.9	6.2	6.1	9	.1	.3	.2	25	.07	.026	32	17.0	.41	71	.022	1	.96	.004	.03	.1	.01	1.5	.1	<.05	3	<.5
14N 800+00E	.8	10.2	13.2	36	<.1	10.5	5.5	303	2.13	7.4	.6	2.7	2.9	7	.1	.4	.2	38	.05	.029	18	17.4	.28	84	.021	1	.98	.005	.02	.2	.02	1.3	.1	<.05	4	<.5
14N 800+50E	.7	13.5	12.5	40	<.1	12.4	4.3	121	1.88	6.3	.7	5.3	1.7	9	.1	.3	.2	33	.06	.028	20	19.0	.34	88	.020	1	1.09	.005	.03	.1	.02	1.4	.1	<.05	4	.5
14N 801+00E	.7	17.9	14.9	56	<.1	19.0	7.8	255	2.26	6.0	1.0	3.3	6.2	10	.1	.3	.2	27	.07	.032	33	18.0	.40	72	.021	1	1.05	.004	.03	.1	.02	1.4	<.1	<.05	4	<.5
14N 801+50E	.6	17.7	13.5	53	<.1	17.1	6.7	197	2.18	5.5	1.1	1.1	7.5	9	.1	.3	.2	25	.07	.030	28	18.2	.40	61	.020	1	.97	.004	.02	.1	.02	1.3	<.1	<.05	3	<.5
14N 802+00E	.7	23.1	17.1	56	.1	18.9	8.0	212	2.44	6.4	1.8	1.0	7.9	15	.1	.3	.3	27	.11	.036	33	18.6	.43	102	.015	1	1.10	.006	.03	.1	.02	1.6	.1	<.05	4	.5
13N 789+00E	.9	21.3	14.9	39	.1	12.7	4.6	109	1.73	5.2	1.3	1.7	.4	15	.2	.2	.2	27	.06	.042	26	15.9	.28	127	.011	1	.91	.005	.03	.1	.03	1.7	.1	<.05	4	.5
13N 789+50E	1.0	24.0	21.4	57	.1	18.4	6.8	183	2.59	6.9	1.4	1.0	8.2	18	.1	.3	.3	24	.04	.038	45	16.7	.37	67	.018	<.1	1.00	.005	.03	.1	.02	1.3	.1	<.05	4	<.5
13N 790+00E	.9	17.8	13.3	31	.1	9.8	3.4	86	1.62	5.6	.7	1.0	1.9	9	.1	.2	.2	38	.05	.046	19	17.9	.26	111	.026	1	.98	.006	.03	.1	.03	1.6	.1	<.05	5	<.5
13N 790+50E	.7	16.1	10.2	47	<.1	13.9	6.5	211	1.95	6.3	.8	1.7	4.1	10	<.1	.3	.2	33	.10	.038	21	19.2	.36	99	.027	<.1	1.00	.005	.03	.1	.03	1.7	.1	<.05	3	<.5
13N 791+00E	.6	11.8	10.5	41	<.1	11.1	4.1	107	1.70	5.2	.7	1.1	1.1	9	.1	.3	.2	29	.08	.034	20	17.3	.32	76	.020	<.1	.91	.004	.03	.1	.04	1.1	.1	<.05	3	<.5
13N 791+50E	.7	14.7	11.5	40	.1	12.6	4.7	110	1.90	7.0	.7	2.0	1.2	9	.1	.3	.2	35	.09	.043	18	18.7	.32	120	.021	<.1	1.00	.005	.03	.1	.06	1.4	.1	<.05	3	<.5
13N 792+00E	.8	19.5	11.5	56	.1	16.8	7.1	201	2.16	7.7	.9	9.8	3.8	11	.1	.4	.2	37	.13	.047	22	23.2	.40	148	.030	<.1	1.16	.006	.03	.2	.07	2.6	.1	<.05	3	<.5
13N 792+50E	.6	16.4	12.5	52	<.1	16.3	6.6	182	2.07	5.6	1.0	4.0	4.2	12	.1	.4	.2	24	.10	.036	33	15.6	.26	86	.020	<.1	.73	.004	.02	.1	.05	1.3	<.1	<.05	2	<.5
RE L13N 792+50E	.6	16.3	12.3	50	<.1	14.9	6.5	173	2.00	5.1	1.0	6.0	4.2	11	.1	.3	.2	22	.09	.035	30	14.6	.25	83	.017	<.1	.68	.004	.02	.1	.06	1.3	<.1	<.05	2	<.5
13N 793+00E	.7	11.7	11.8	39	<.1	11.2	4.1	108	1.92	7.4	.6	1.0	2.1	8	.1	.4	.2	36	.07	.029	16	19.0	.29	83	.024	<.1	.98	.004	.02	.2	.03	1.4	.1	<.05	4	<.5
13N 793+50E	.7	10.3	10.7	33	<.1	8.9	3.0	104	1.81	7.0	.7	1.1	.4	8	.1	.3	.2	37	.08	.037	13	19.7	.27	76	.022	<.1	.97	.005	.02	.2	.04	1.0	.1	<.05	4	<.5
13N 794+00E	.6	20.5	9.2	51	<.1	18.9	6.4	228	2.03	6.4	.7	2.1	4.3	17	.1	.5	.1	37	.19	.036	22	23.1	.46	186	.042	<.1	1.02	.007	.03	.2	.03	2.6	.1	<.05	4	<.5
13N 794+50E	.6	24.1	17.6	61	<.1	20.8	9.7	245	2.49	5.5	1.6	1.5	9.7	14	.1	.3	.3	26	.09	.029	48	17.5	.43	92	.020	<.1	1.05	.004	.03	.1	.02	1.9	<.1	<.05	4	<.5
13N 795+00E	.6	17.6	9.7	49	<.1	18.6	6.7	165	2.13	7.8	.6	2.6	4.3	8	.1	.5	.1	38	.08	.029	15	22.5	.42	86	.031	<.1	1.26	.005	.03	.1	.03	1.9	.1	<.05	4	<.5
13N 795+50E	.8	21.6	10.1	58	<.1	23.8	9.8	222	2.23	8.4	.7	1.6	5.7	9	.2	.6	.1	38	.09	.033	15	24.9	.44	100	.039	<.1	1.40	.006	.04	.2	.03	2.2	.1	<.05	3	<.5
13N 796+00E	.7	23.9	11.9	57	<.1	22.5	7.4	246	2.12	7.2	.9	1.1	5.3	14	.1	.5	.2	36	.13	.037	24	21.1	.45	99	.040	<.1	1.05	.006	.04	.1	.02	2.1	.1	<.05	3	<.5
13N 796+50E	.7	13.8	12.1	44	<.1	14.9	5.0	142	2.02	6.7	.6	5.2	3.3	10	.1	.4	.2	39	.08	.029	20	21.4	.36	84	.027	1	1.21	.005	.03	.1	.03	1.7	.1	<.05	5	<.5
13N 797+00E	.7	25.1	12.5	58	<.1	20.8	9.1	288	2.24	6.2	1.3	2.3	7.8	15	.1	.4	.2	36	.11	.028	30	23.9	.50	165	.042	1	1.21	.006	.03	.1	.02	2.7	.1	<.05	4	<.5
13N 797+50E	.8	19.7	11.9	60	<.1	20.5	7.4	223	2.27	6.3	.9	2.2	4.1	12	.1	.4	.2	39	.10	.030	24	24.8	.48	124	.035	<.1	1.18	.005	.03	.1	.03	1.9	.1	<.05	4	<.5
STANDARD DS5	13.2	144.8	25.9	139	.3	24.8	12.2	793	3.04	18.0	6.4	42.0	2.7	46	5.6	3.8	6.2	62	.73	.091	12	191.7	.68	135	.098	18	1.97	.034	.14	4.8	.19	3.4	1.2	<.05	6	4.9

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm
L13N 798+00E	.7	18.8	11.0	50	<.1	16.4	7.0	202	2.03	6.7	.9	1.7	4.1	12	.1	.4	.2	37	.09	.034	24	22.4	.40	129	.033	<1	1.24	.005	.03	.1	.02	2.2	.1	<.05	4	.5
L13N 798+50E	.8	15.7	12.3	49	<.1	15.7	5.8	176	2.05	6.5	.9	1.2	2.3	13	<.1	.3	.2	41	.08	.034	24	23.8	.39	140	.030	1	1.44	.006	.04	.1	.03	2.0	.1	<.05	5	.5
L13N 799+00E	.7	21.5	12.8	53	.1	17.6	7.1	197	2.17	6.8	1.1	1.0	1.4	14	.1	.3	.2	36	.09	.035	26	23.9	.41	150	.024	<1	1.37	.006	.04	.1	.03	1.7	.1	<.05	4	.7
L13N 799+50E	.6	16.7	10.3	50	<.1	16.2	6.9	176	1.96	5.7	.9	1.5	5.6	11	.1	.3	.2	34	.10	.034	23	22.6	.39	122	.032	1	1.29	.005	.03	.1	.04	2.3	.1	<.05	4	.5
L13N 800+00E	.7	18.4	12.0	53	<.1	17.4	6.5	174	2.16	6.3	.8	2.2	1.1	12	.1	.3	.2	37	.09	.032	23	23.2	.39	138	.022	1	1.37	.006	.03	.1	.03	1.5	.1	<.05	4	.6
L13N 800+50E	.7	13.4	11.4	49	.1	14.8	5.7	133	1.97	6.7	.6	2.8	3.5	11	<.1	.3	.2	35	.07	.024	24	20.3	.37	107	.029	1	1.21	.005	.03	.1	.03	1.5	.1	<.05	4	<.5
L13N 801+00E	.9	20.8	15.4	57	.1	19.4	7.6	200	2.48	9.1	1.2	1.0	2.9	14	.1	.3	.2	41	.09	.034	22	25.2	.38	166	.022	1	1.55	.006	.04	.1	.05	2.3	.1	<.05	5	.5
L13N 801+50E	.6	11.2	10.4	39	<.1	11.6	4.5	121	1.65	5.6	.7	1.0	5.2	11	<.1	.2	.1	26	.07	.025	25	15.1	.32	73	.025	<1	.90	.005	.02	.1	.03	1.4	.1	<.05	3	<.5
L13N 802+00E	.8	13.3	14.0	50	<.1	14.5	5.7	155	2.19	6.6	.8	1.2	5.9	12	.1	.2	.2	31	.07	.028	28	19.6	.39	84	.022	<1	1.16	.005	.03	.1	.03	1.4	.1	<.05	4	<.5
STANDARD DS5	12.9	142.8	25.8	140	.3	25.9	12.8	790	2.99	18.8	6.2	42.0	2.8	48	5.6	3.7	6.4	62	.72	.092	12	189.5	.68	138	.099	18	2.10	.035	.14	4.8	.18	3.4	1.1	<.05	7	5.0

Sample type: SOIL SS80 60C.

**APPENDIX III**

**CREW LOG**



**AURORA GEOSCIENCES LTD.  
HALCYON PROJECT  
JOB XDC-04-001-YT  
KINGFISHER SYNDICATE**

Crew: Kel Sax (Project Geologist)  
Andrea Langerud (Geological Assistant)

Thur, Sept 9 AL, KS, and Warren Kapaniuk organize camp for Clear Creek projects.

Fri, Sept 10 AL and KS mobilize from Whitehorse to Clear Creek road. Camp located at 381814 E 7083104 N (NAD 83 UTM). Sunny

Sat, Sept 11 to Thur, Sept 16 Work on other projects in the area

Fri, Sept 17 Work on Halcyon Project. KS runs soil lines 16N and 15N from BL 795+50 E to 802+00 E then runs mag survey on these lines. 28 soil samples collected.

Sat, Sept 18 KS establishes lines 16N and 15N from BL 795+50E to 789+00E, and lines 14N and 13N from BL 795+50E to 802+00E and runs mag survey. AL collects soil samples. 54 samples collected. Overcast, melting in aft.

Sun, Sept 19 KS establishes lines 14N and 13N from BL 795+50E to 789+00E and runs mag survey. AL collects soil samples. 26 soil samples collected. Overcast, melting in aft.

Mon, Sept 20 AL runs VLF survey on L16 and 15N, KS runs mag on L12 and 11N, east side. Did not find claim posts. Overcast, snow.

Tue, Sept 20 Demobilization to Whitehorse

**APPENDIX IV**

**MAGNETOMETER DATA**

HALCYON JOINT VENTURE  
MAGNETIC SURVEY DATA

Line	Station	X	Y	raw_mag	corrected_mag	Levelled_mag
1100	79550	379549	7081101	57885.33	60357.02	60344.02
1100	79562.5	379560	7081104	57868.33	60339.98	60326.98
1100	79575	379573	7081105	57834.4	60306.21	60293.21
1100	79587.5	379587	7081101	57826.56	60298.7	60285.7
1100	79600	379602	7081097	57836.21	60308.78	60295.78
1100	79612.5	379612	7081097	57840.19	60312.97	60299.97
1100	79625	379625	7081102	57810.88	60283.52	60270.52
1100	79637.5	379636	7081101	57804.15	60277	60264
1100	79650	379643	7081102	57791.92	60265.06	60252.06
1100	79662.5	379659	7081100	57771.78	60245.03	60232.03
1100	79675	379675	7081099	57747.33	60220.6	60207.6
1100	79687.5	379689	7081100	57738.28	60211.57	60198.57
1100	79700	379702	7081100	57738.68	60211.96	60198.96
1100	79712.5	379710	7081101	57745.82	60218.88	60205.88
1100	79725	379725	7081101	57752.32	60225.17	60212.17
1100	79737.5	379738	7081098	57761.8	60234.71	60221.71
1100	79750	379749	7081100	57768.07	60240.69	60227.69
1100	79762.5	379761	7081101	57771.17	60243.1	60230.1
1100	79775	379775	7081098	57782.86	60254.75	60241.75
1100	79787.5	379785	7081100	57786.34	60258.41	60245.41
1100	79800	379801	7081102	57789.38	60261.63	60248.63
1100	79812.5	379811	7081102	57786.48	60258.5	60245.5
1100	79825	379826	7081100	57786.39	60258.4	60245.4
1100	79837.5	379837	7081099	57784.91	60256.7	60243.7
1100	79850	379850	7081099	57777.28	60248.82	60235.82
1100	79862.5	379862	7081104	57769.83	60241.39	60228.39
1100	79875	379873	7081103	57757.19	60229.06	60216.06
1100	79887.5	379885	7081099	57752.52	60224.58	60211.58
1100	79900	379899	7081100	57744.58	60216.49	60203.49
1100	79912.5	379910	7081103	57746.87	60219.07	60206.07
1100	79925	379925	7081101	57745.28	60218.2	60205.2
1100	79937.5	379936	7081101	57749.39	60222.29	60209.29
1100	79950	379950	7081103	57747.54	60220.28	60207.28
1100	79962.5	379964	7081102	57748.18	60221.74	60208.74
1100	79975	379975	7081099	57745.5	60219.21	60206.21
1100	79987.5	379988	7081099	57746.98	60220.69	60207.69
1100	80000	380000	7081101	57744.03	60217.69	60204.69
1100	80012.5	380010	7081101	57740.51	60214.58	60201.58
1100	80025	380025	7081100	57740.4	60214.77	60201.77
1100	80037.5	380036	7081102	57740.76	60215.07	60202.07
1100	80050	380050	7081103	57736.2	60210.06	60197.06
1100	80062.5	380062	7081101	57736.98	60210.89	60197.89
1100	80075	380075	7081102	57730.84	60204.44	60191.44
1100	80087.5	380087	7081102	57724.5	60198.12	60185.12
1100	80100	380100	7081102	57726.28	60199.88	60186.88
1100	80112.5	380112	7081100	57715.93	60189.72	60176.72
1100	80125	380124	7081102	57713.73	60187.59	60174.59
1100	80137.5	380137	7081100	57711	60184.73	60171.73
1100	80150	380150	7081100	57709.15	60182.66	60169.66
1100	80162.5	380161	7081101	57709.13	60182.87	60169.87
1100	80175	380175	7081102	57699.09	60173.03	60160.03
1100	80187.5	380187	7081102	57695.42	60169.33	60156.33
1100	80200	380199	7081096	57695.42	60169.83	60156.83

HALCYON JOINT VENTURE  
MAGNETIC SURVEY DATA

Line	Station	X	Y	raw_mag	corrected_mag	Levelled_mag
1200	79550	379550	7081200	57823.53	60281.54	60268.54
1200	79562.5	379562	7081198	57806.88	60265.37	60252.37
1200	79575	379576	7081201	57793.52	60252.98	60239.98
1200	79587.5	379588	7081202	57785.63	60243.93	60230.93
1200	79600	379600	7081201	57780.17	60238.53	60225.53
1200	79612.5	379612	7081198	57783.68	60243.35	60230.35
1200	79625	379626	7081198	57791.5	60251.72	60238.72
1200	79637.5	379636	7081200	57785.48	60245.03	60232.03
1200	79650	379651	7081202	57790.51	60249.65	60236.65
1200	79662.5	379664	7081201	57788.23	60247.32	60234.32
1200	79675	379675	7081202	57782.62	60242.07	60229.07
1200	79687.5	379688	7081202	57765.13	60224.96	60211.96
1200	79700	379699	7081201	57746.9	60207.97	60194.97
1200	79712.5	379713	7081201	57735.71	60197.7	60184.7
1200	79725	379725	7081202	57740.61	60202.41	60189.41
1200	79737.5	379737	7081205	57747.03	60208.08	60195.08
1200	79750	379750	7081201	57744.35	60205.81	60192.81
1200	79762.5	379762	7081200	57745.93	60207.93	60194.93
1200	79775	379775	7081200	57744.06	60206.81	60193.81
1200	79787.5	379787	7081201	57748.35	60211.18	60198.18
1200	79800	379800	7081200	57747.41	60210.07	60197.07
1200	79812.5	379812	7081201	57748.61	60211.66	60198.66
1200	79825	379827	7081200	57746.68	60210.25	60197.25
1200	79837.5	379839	7081203	57740.89	60204.99	60191.99
1200	79850	379850	7081199	57738.98	60203.22	60190.22
1200	79862.5	379862	7081199	57734.93	60199.36	60186.36
1200	79875	379875	7081198	57731.14	60195.64	60182.64
1200	79887.5	379888	7081203	57728.99	60193.34	60180.34
1200	79900	379900	7081197	57731.66	60195.86	60182.86
1200	79912.5	379911	7081199	57730.63	60195.42	60182.42
1200	79925	379925	7081199	57729.84	60194.44	60181.44
1200	79937.5	379939	7081201	57729.66	60194.08	60181.08
1200	79950	379951	7081201	57733.93	60198.45	60185.45
1200	79962.5	379962	7081200	57734.2	60198.59	60185.59
1200	79975	379974	7081202	57737.27	60201.39	60188.39
1200	79987.5	379987	7081200	57741.34	60205.43	60192.43
1200	80000	380000	7081200	57741.92	60206.03	60193.03
1200	80012.5	380013	7081200	57741.16	60205.06	60192.06
1200	80025	380025	7081198	57738.88	60202.36	60189.36
1200	80037.5	380038	7081200	57734.42	60197.7	60184.7
1200	80050	380050	7081202	57731.01	60193.99	60180.99
1200	80062.5	380064	7081200	57726.35	60189.71	60176.71
1200	80075	380075	7081201	57721.16	60184.59	60171.59
1200	80087.5	380087	7081200	57718.88	60181.81	60168.81
1200	80100	380101	7081202	57714.25	60176.6	60163.6
1200	80112.5	380113	7081201	57713.84	60176.89	60163.89
1200	80125	380125	7081200	57707.3	60171.27	60158.27
1200	80137.5	380138	7081201	57705.82	60169.97	60156.97
1200	80150	380152	7081200	57708.57	60172.6	60159.6
1200	80162.5	380161	7081199	57701.83	60165.46	60152.46
1200	80175	380175	7081201	57701.89	60165.57	60152.57
1200	80187.5	380188	7081200	57699.21	60163.02	60150.02
1200	80200	380199	7081201	57699.05	60163.09	60150.09

HALCYON JOINT VENTURE  
MAGNETIC SURVEY DATA

Line	Station	X	Y	raw_mag	corrected_mag	Levelled_mag
1300	78900	378899	7081299	57822.86	60318.37	60308.37
1300	78912.5	378913	7081300	57845.62	60342.17	60332.17
1300	78925	378924	7081300	57868.08	60364.91	60354.91
1300	78937.5	378935	7081302	57877.39	60373.61	60363.61
1300	78950	378949	7081300	57872.96	60367.92	60357.92
1300	78962.5	378962	7081297	57863.2	60357.05	60347.05
1300	78975	378975	7081297	57853.37	60347.55	60337.55
1300	78987.5	378988	7081300	57840.04	60334.73	60324.73
1300	79000	379000	7081300	57840.93	60333.91	60323.91
1300	79012.5	379011	7081301	57830.91	60322.31	60312.31
1300	79025	379025	7081301	57798.37	60290.86	60280.86
1300	79037.5	379036	7081298	57787.45	60279.92	60269.92
1300	79050	379051	7081299	57769.34	60260.85	60250.85
1300	79062.5	379062	7081302	57761.95	60252.37	60242.37
1300	79075	379075	7081300	57766.65	60256.83	60246.83
1300	79087.5	379087	7081299	57767.03	60257.54	60247.54
1300	79100	379099	7081300	57769.32	60260.35	60250.35
1300	79112.5	379112	7081298	57772.5	60263.72	60253.72
1300	79125	379125	7081301	57774.25	60265.45	60255.45
1300	79137.5	379137	7081300	57766.72	60258.17	60248.17
1300	79150	379148	7081297	57759.35	60250.23	60240.23
1300	79162.5	379161	7081300	57739.69	60230.93	60220.93
1300	79175	379175	7081298	57731.13	60222.39	60212.39
1300	79187.5	379185	7081297	57722.14	60212.36	60202.36
1300	79200	379201	7081300	57714.04	60203.68	60193.68
1300	79212.5	379211	7081301	57706.04	60197.15	60187.15
1300	79225	379225	7081299	57723.42	60214.46	60204.46
1300	79237.5	379237	7081299	57744.53	60235.02	60225.02
1300	79250	379250	7081299	57742.03	60232.05	60222.05
1300	79262.5	379262	7081299	57724.5	60214.27	60204.27
1300	79275	379275	7081303	57703.72	60193.06	60183.06
1300	79287.5	379285	7081301	57700.46	60188.98	60178.98
1300	79300	379300	7081299	57702.54	60190.66	60180.66
1300	79312.5	379312	7081300	57713.28	60201.59	60191.59
1300	79325	379325	7081301	57713.78	60203.76	60193.76
1300	79337.5	379336	7081302	57713.69	60203.81	60193.81
1300	79350	379350	7081305	57720.08	60209.62	60199.62
1300	79362.5	379361	7081304	57725.89	60215.07	60205.07
1300	79375	379374	7081300	57741.42	60230.1	60220.1
1300	79387.5	379387	7081296	57743.76	60232.19	60222.19
1300	79400	379401	7081295	57746.11	60234.96	60224.96
1300	79412.5	379410	7081299	57747.61	60236.56	60226.56
1300	79425	379423	7081301	57750.6	60239.22	60229.22
1300	79437.5	379435	7081303	57752.5	60240.82	60230.82
1300	79450	379449	7081301	57751.83	60240.45	60230.45
1300	79462.5	379463	7081303	57752.93	60241.74	60231.74
1300	79475	379473	7081304	57767.26	60256.06	60246.06
1300	79487.5	379486	7081305	57787.17	60276.23	60266.23
1300	79500	379500	7081310	57774.5	60262.94	60252.94
1300	79512.5	379511	7081312	57750.06	60237.88	60227.88
1300	79525	379524	7081309	57753.06	60241.07	60231.07
1300	79537.5	379536	7081303	57754.87	60242.4	60232.4
1300	79550	379547	7081307	57754.46	60240.78	60230.78

HALCYON JOINT VENTURE  
MAGNETIC SURVEY DATA

Line	Station	X	Y	raw_mag	corrected_mag	Levelled_mag
1300	79562.5	379561	7081301	57782.74	60251.73	60233.73
1300	79575	379574	7081304	57793.54	60263.15	60245.15
1300	79600	379599	7081299	57804.7	60273.77	60255.77
1300	79612.5	379612	7081298	57806.11	60275.36	60257.36
1300	79625	379624	7081303	57816.17	60285.68	60267.68
1300	79637.5	379636	7081307	57816.58	60285.91	60267.91
1300	79650	379648	7081307	57810.78	60280.3	60262.3
1300	79662.5	379662	7081303	57808.33	60277.37	60259.37
1300	79675	379673	7081300	57802.32	60271.3	60253.3
1300	79687.5	379684	7081300	57791.78	60261	60243
1300	79700	379700	7081300	57784.64	60253.7	60235.7
1300	79712.5	379711	7081301	57769.01	60237.69	60219.69
1300	79725	379725	7081295	57757.33	60226.09	60208.09
1300	79737.5	379735	7081294	57752.15	60220.94	60202.94
1300	79750	379749	7081301	57742.98	60212.12	60194.12
1300	79762.5	379762	7081305	57741.9	60210.97	60192.97
1300	79775	379774	7081304	57743.44	60212.69	60194.69
1300	79787.5	379786	7081303	57747.95	60217.06	60199.06
1300	79800	379799	7081301	57745.55	60214.78	60196.78
1300	79812.5	379811	7081302	57739.39	60208.98	60190.98
1300	79825	379822	7081298	57739.26	60208.96	60190.96
1300	79837.5	379837	7081299	57741.88	60211.57	60193.57
1300	79850	379850	7081302	57743.42	60212.95	60194.95
1300	79862.5	379859	7081294	57743.78	60213.26	60195.26
1300	79875	379874	7081296	57744.18	60213.59	60195.59
1300	79887.5	379889	7081296	57740.82	60209.92	60191.92
1300	79900	379901	7081300	57739.61	60209.13	60191.13
1300	79912.5	379911	7081302	57737.15	60207	60189
1300	79925	379924	7081303	57737.8	60207.44	60189.44
1300	79937.5	379936	7081299	57735.73	60205.6	60187.6
1300	79950	379949	7081295	57735.78	60205.5	60187.5
1300	79962.5	379961	7081295	57735.61	60205.21	60187.21
1300	79975	379975	7081299	57732.14	60201.85	60183.85
1300	79987.5	379988	7081299	57729.92	60199.69	60181.69
1300	80000	380000	7081303	57732.62	60202.63	60184.63
1300	80012.5	380012	7081305	57732.52	60202.38	60184.38
1300	80025	380024	7081302	57733.01	60202.95	60184.95
1300	80037.5	380035	7081300	57733.93	60204.06	60186.06
1300	80050	380048	7081300	57735.42	60204.97	60186.97
1300	80062.5	380061	7081300	57736.9	60207.03	60189.03
1300	80075	380072	7081301	57736.34	60206.68	60188.68
1300	80087.5	380087	7081297	57738.8	60208.85	60190.85
1300	80100	380098	7081297	57739.11	60209.24	60191.24
1300	80112.5	380111	7081297	57737.97	60208.31	60190.31
1300	80125	380123	7081306	57736.27	60206.32	60188.32
1300	80137.5	380135	7081305	57740.33	60209.85	60191.85
1300	80150	380149	7081300	57738.97	60208.33	60190.33
1300	80162.5	380162	7081300	57739.09	60209.03	60191.03
1300	80175	380175	7081297	57736.13	60205.73	60187.73
1300	80187.5	380184	7081296	57735.88	60205.98	60187.98
1300	80200	380197	7081296	57730.16	60200.89	60182.89
1400	78900	378902	7081402	57819.39	60311.49	60301.49
1400	78912.5	378913	7081402	57813.43	60306.49	60296.49

HALCYON JOINT VENTURE  
MAGNETIC SURVEY DATA

Line	Station	X	Y	raw_mag	corrected_mag	Levelled_mag
1400	78925	378927	7081400	57799.99	60292.99	60282.99
1400	78937.5	378937	7081399	57794.5	60287.2	60277.2
1400	78950	378952	7081400	57783.29	60274.98	60264.98
1400	78962.5	378963	7081402	57774.35	60266.66	60256.66
1400	78975	378978	7081404	57766.72	60260.81	60250.81
1400	78987.5	378990	7081403	57759.88	60254.98	60244.98
1400	79000	379001	7081401	57753.51	60249.09	60239.09
1400	79012.5	379013	7081401	57741.02	60236.29	60226.29
1400	79025	379024	7081401	57737.93	60233.87	60223.87
1400	79037.5	379037	7081402	57735.43	60231.99	60221.99
1400	79050	379051	7081401	57739.68	60235.47	60225.47
1400	79062.5	379061	7081400	57751.64	60246.56	60236.56
1400	79075	379076	7081403	57778.27	60274.39	60264.39
1400	79087.5	379087	7081402	57793.26	60290.55	60280.55
1400	79100	379101	7081400	57810.15	60308.01	60298.01
1400	79112.5	379113	7081400	57800.23	60298.69	60288.69
1400	79125	379124	7081399	57767.47	60265.78	60255.78
1400	79137.5	379138	7081402	57723.9	60222.7	60212.7
1400	79150	379150	7081402	57703.49	60201.86	60191.86
1400	79162.5	379161	7081402	57700.1	60197.96	60187.96
1400	79175	379177	7081401	57702.52	60199.17	60189.17
1400	79187.5	379188	7081400	57704.69	60200.89	60190.89
1400	79200	379200	7081401	57699.88	60195.9	60185.9
1400	79212.5	379212	7081403	57700.55	60196.01	60186.01
1400	79225	379226	7081399	57703.53	60197.68	60187.68
1400	79237.5	379237	7081400	57702.83	60196.45	60186.45
1400	79250	379251	7081401	57700.64	60194.49	60184.49
1400	79262.5	379262	7081401	57702.87	60196.89	60186.89
1400	79275	379277	7081400	57706.68	60201.45	60191.45
1400	79287.5	379288	7081402	57710.64	60205.65	60195.65
1400	79300	379300	7081401	57714.46	60211.2	60201.2
1400	79312.5	379314	7081401	57723.01	60218.73	60208.73
1400	79325	379325	7081400	57730.77	60226.97	60216.97
1400	79337.5	379337	7081400	57735.58	60230.82	60220.82
1400	79350	379351	7081398	57739.18	60232.86	60222.86
1400	79362.5	379362	7081400	57729.84	60223.55	60213.55
1400	79375	379374	7081401	57722.25	60216.32	60206.32
1400	79387.5	379388	7081402	57712.6	60207.18	60197.18
1400	79400	379402	7081401	57706.28	60201.12	60191.12
1400	79412.5	379413	7081401	57694.9	60190.56	60180.56
1400	79425	379425	7081399	57700.79	60196.63	60186.63
1400	79437.5	379439	7081399	57709.54	60204.61	60194.61
1400	79450	379451	7081401	57740.88	60234.56	60224.56
1400	79462.5	379462	7081401	57768.52	60261.81	60251.81
1400	79475	379476	7081401	57774.52	60269.27	60259.27
1400	79487.5	379488	7081400	57802.44	60298.31	60288.31
1400	79500	379502	7081399	57812.06	60307.52	60297.52
1400	79512.5	379512	7081397	57802.45	60297.51	60287.51
1400	79525	379526	7081400	57820.03	60314.74	60304.74
1400	79537.5	379536	7081398	57812.25	60306.54	60296.54
1400	79550	379549	7081399	57830.52	60295.52	60277.52
1400	79550	379544	7081397	57798.34	60293	60283
1400	79562.5	379564	7081396	57791.95	60256.86	60238.86

HALCYON JOINT VENTURE  
MAGNETIC SURVEY DATA

Line	Station	X	Y	raw_mag	corrected_mag	Levelled_mag
1400	79575	379579	7081400	57785.97	60251.67	60233.67
1400	79587.5	379588	7081401	57790.47	60255.75	60237.75
1400	79600	379601	7081403	57791.98	60257.05	60239.05
1400	79612.5	379615	7081403	57789	60254.35	60236.35
1400	79625	379626	7081402	57793.86	60259.22	60241.22
1400	79637.5	379638	7081401	57789.77	60255.15	60237.15
1400	79650	379652	7081399	57781.95	60247.7	60229.7
1400	79662.5	379664	7081399	57776.67	60242.6	60224.6
1400	79675	379675	7081400	57773.53	60239.37	60221.37
1400	79687.5	379689	7081397	57764.1	60230.16	60212.16
1400	79700	379699	7081400	57757.17	60223.36	60205.36
1400	79712.5	379714	7081402	57741.45	60207.57	60189.57
1400	79725	379725	7081399	57735.21	60201.89	60183.89
1400	79737.5	379736	7081401	57727.2	60194.3	60176.3
1400	79750	379752	7081404	57714.93	60182.42	60164.42
1400	79762.5	379763	7081405	57715.75	60182.39	60164.39
1400	79775	379776	7081403	57717.16	60184.11	60166.11
1400	79787.5	379790	7081400	57716.41	60183.6	60165.6
1400	79800	379800	7081399	57713.69	60180.84	60162.84
1400	79812.5	379812	7081399	57713.28	60180.4	60162.4
1400	79825	379826	7081399	57714.56	60181.71	60163.71
1400	79837.5	379838	7081397	57717.27	60184.56	60166.56
1400	79850	379852	7081397	57718.95	60187.14	60169.14
1400	79862.5	379864	7081402	57720.88	60189.02	60171.02
1400	79875	379875	7081403	57723.74	60192.56	60174.56
1400	79887.5	379886	7081404	57726.48	60195.65	60177.65
1400	79900	379903	7081395	57729.09	60198.43	60180.43
1400	79912.5	379916	7081396	57733.24	60202.61	60184.61
1400	79925	379925	7081396	57738.96	60208.69	60190.69
1400	79937.5	379939	7081400	57741.53	60211.56	60193.56
1400	79950	379949	7081402	57747.25	60217.17	60199.17
1400	79962.5	379962	7081398	57748.42	60218.25	60200.25
1400	79975	379975	7081398	57753.33	60223.35	60205.35
1400	79987.5	379989	7081401	57752.17	60222.49	60204.49
1400	80000	380002	7081403	57751.98	60222.32	60204.32
1400	80012.5	380014	7081402	57754.46	60224.76	60206.76
1400	80025	380025	7081400	57755.94	60225.75	60207.75
1400	80037.5	380035	7081397	57756.26	60225.95	60207.95
1400	80050	380050	7081398	57758.7	60228.43	60210.43
1400	80062.5	380063	7081401	57762.49	60232.14	60214.14
1400	80075	380077	7081402	57766.7	60237.03	60219.03
1400	80087.5	380088	7081405	57768.45	60238.95	60220.95
1400	80100	380099	7081402	57770.74	60240.71	60222.71
1400	80112.5	380115	7081402	57771.37	60241.16	60223.16
1400	80125	380123	7081404	57774.27	60244.21	60226.21
1400	80137.5	380138	7081403	57775.5	60246.01	60228.01
1400	80150	380150	7081402	57778.47	60248.87	60230.87
1400	80162.5	380162	7081400	57778.39	60248.77	60230.77
1400	80175	380176	7081402	57783.28	60253.81	60235.81
1400	80187.5	380189	7081404	57783.9	60254.52	60236.52
1400	80200	380191	7081405	57783.91	60254.66	60236.66
1500	78900	378899	7081504	57814.28	60277.95	60259.95
1500	78912.5	378912	7081503	57792.44	60256.13	60238.13

HALCYON JOINT VENTURE  
MAGNETIC SURVEY DATA

Line	Station	X	Y	raw_mag	corrected_mag	Levelled_mag
1500	78925	378925	7081498	57782.92	60246.28	60228.28
1500	78937.5	378938	7081497	57776.94	60239.83	60221.83
1500	78950	378950	7081500	57776.5	60239	60221
1500	78962.5	378962	7081501	57787.06	60250.51	60232.51
1500	78975	378972	7081497	57794.51	60258.02	60240.02
1500	78987.5	378987	7081496	57803.98	60267.59	60249.59
1500	79000	379001	7081497	57811.35	60274.87	60256.87
1500	79012.5	379011	7081501	57815.19	60279.07	60261.07
1500	79025	379023	7081503	57804.97	60268.84	60250.84
1500	79037.5	379036	7081501	57792.68	60256.2	60238.2
1500	79050	379047	7081500	57782.48	60245.98	60227.98
1500	79062.5	379061	7081502	57770.04	60233.64	60215.64
1500	79075	379075	7081504	57765.33	60228.65	60210.65
1500	79087.5	379087	7081501	57762.18	60225.95	60207.95
1500	79100	379100	7081497	57757.33	60221.47	60203.47
1500	79112.5	379112	7081501	57761.01	60225.14	60207.14
1500	79125	379126	7081499	57767.6	60231.02	60213.02
1500	79137.5	379137	7081503	57762.37	60226.08	60208.08
1500	79150	379149	7081504	57748.92	60213.2	60195.2
1500	79162.5	379163	7081502	57741.26	60206.41	60188.41
1500	79175	379174	7081504	57736.5	60201.71	60183.71
1500	79187.5	379187	7081503	57736.82	60202.28	60184.28
1500	79200	379200	7081498	57736.57	60202.03	60184.03
1500	79212.5	379213	7081498	57739.08	60204.99	60186.99
1500	79225	379224	7081497	57742.97	60209.12	60191.12
1500	79237.5	379237	7081501	57742.87	60208.76	60190.76
1500	79250	379248	7081505	57748.82	60213.75	60195.75
1500	79262.5	379260	7081505	57756.31	60220.13	60202.13
1500	79275	379272	7081500	57755.24	60218.75	60200.75
1500	79287.5	379285	7081503	57763.3	60227.24	60209.24
1500	79300	379299	7081506	57779.58	60243.49	60225.49
1500	79312.5	379310	7081507	57786.29	60250.68	60232.68
1500	79325	379324	7081504	57789.22	60252.99	60234.99
1500	79337.5	379335	7081504	57791.05	60254.13	60236.13
1500	79350	379350	7081503	57801.63	60264.71	60246.71
1500	79362.5	379360	7081502	57821.87	60285.28	60267.28
1500	79375	379375	7081505	57838.52	60302.05	60284.05
1500	79387.5	379386	7081506	57857.14	60320.93	60302.93
1500	79400	379399	7081508	57845.04	60308.63	60290.63
1500	79412.5	379412	7081503	57829.83	60293.39	60275.39
1500	79425	379424	7081499	57815.9	60279.56	60261.56
1500	79437.5	379436	7081502	57824.57	60288.76	60270.76
1500	79450	379449	7081504	57836.17	60300.64	60282.64
1500	79462.5	379461	7081508	57839.27	60304.22	60286.22
1500	79475	379474	7081508	57821.49	60286.48	60268.48
1500	79487.5	379484	7081506	57804.72	60269.75	60251.75
1500	79500	379501	7081505	57810.19	60275.31	60257.31
1500	79512.5	379511	7081503	57819.22	60283.64	60265.64
1500	79525	379518	7081491	57834.86	60300.5	60282.5
1500	79537.5	379536	7081489	57843.4	60310.22	60292.22
1500	79550	379549	7081507	57848.97	60315.8	60297.8
1500	79562.5	379562	7081505	57855.53	60317.99	60317.99
1500	79575	379576	7081506	57850.14	60312.86	60312.86

HALCYON JOINT VENTURE  
MAGNETIC SURVEY DATA

Line	Station	X	Y	raw_mag	corrected_mag	Levelled_mag
1500	79587.5	379586	7081502	57799.69	60263.08	60263.08
1500	79600	379600	7081500	57767.73	60231.96	60231.96
1500	79612.5	379612	7081501	57767.36	60230.21	60230.21
1500	79625	379623	7081501	57778.13	60241.61	60241.61
1500	79637.5	379637	7081502	57796.81	60261.93	60261.93
1500	79650	379650	7081500	57817.28	60282.77	60282.77
1500	79662.5	379660	7081496	57805.07	60270.29	60270.29
1500	79675	379674	7081498	57777.33	60242.27	60242.27
1500	79687.5	379681	7081498	57765.78	60231.29	60231.29
1500	79700	379698	7081499	57776.66	60239.69	60239.69
1500	79712.5	379710	7081500	57756.62	60220.7	60220.7
1500	79725	379724	7081502	57744.81	60207.25	60207.25
1500	79737.5	379736	7081502	57737.9	60200.84	60200.84
1500	79750	379749	7081499	57732.9	60196.78	60196.78
1500	79762.5	379761	7081500	57731.12	60195.68	60195.68
1500	79775	379773	7081502	57737.5	60200.9	60200.9
1500	79787.5	379787	7081501	57739.41	60200.54	60200.54
1500	79800	379798	7081504	57748.06	60209.38	60209.38
1500	79812.5	379812	7081497	57743.96	60207.77	60207.77
1500	79825	379823	7081494	57743.95	60207.54	60207.54
1500	79837.5	379837	7081499	57750.87	60212.79	60212.79
1500	79850	379846	7081502	57758.4	60219.94	60219.94
1500	79862.5	379864	7081503	57760.68	60222.92	60222.92
1500	79875	379877	7081498	57753.37	60216.16	60216.16
1500	79887.5	379888	7081498	57751.4	60214.69	60214.69
1500	79900	379898	7081501	57749.65	60213.13	60213.13
1500	79912.5	379911	7081504	57752.32	60215.27	60215.27
1500	79925	379923	7081502	57755.29	60217.36	60217.36
1500	79937.5	379933	7081499	57755.2	60217.25	60217.25
1500	79950	379948	7081497	57756.56	60218.6	60218.6
1500	79962.5	379962	7081499	57760.02	60222.49	60222.49
1500	79975	379975	7081501	57769.01	60230.47	60230.47
1500	79987.5	379986	7081500	57774.73	60235.55	60235.55
1500	80000	379995	7081505	57778.75	60239.98	60239.98
1500	80012.5	380009	7081496	57782.71	60245.17	60245.17
1500	80025	380025	7081501	57785.85	60248.96	60248.96
1500	80050	380049	7081502	57798.92	60262.41	60262.41
1500	80062.5	380058	7081502	57803.23	60267.9	60267.9
1500	80075	380074	7081504	57806.86	60272.4	60272.4
1500	80087.5	380085	7081501	57808.76	60275.04	60275.04
1500	80100	380098	7081497	57804.15	60271.86	60271.86
1500	80112.5	380111	7081497	57804.06	60272.02	60272.02
1500	80125	380123	7081502	57813.6	60280.91	60280.91
1500	80137.5	380135	7081503	57816.45	60283.49	60283.49
1500	80150	380147	7081507	57826.86	60293.69	60293.69
1500	80162.5	380160	7081501	57824.94	60289.54	60289.54
1500	80175	380171	7081499	57826	60287.12	60287.12
1500	80187.5	380190	7081495	57826.69	60286.67	60286.67
1500	80200	380200	7081497	57830.31	60286.75	60286.75
1600	78900	378900	7081608	57766.68	60232.76	60214.76
1600	78912.5	378913	7081601	57769.33	60235.5	60217.5
1600	78925	378926	7081598	57762.2	60238.37	60220.37
1600	78937.5	378936	7081597	57745.67	60211.53	60193.53

HALCYON JOINT VENTURE  
MAGNETIC SURVEY DATA

Line	Station	X	Y	raw_mag	corrected_mag	Levelled_mag
1600	78950	378949	7081598	57730.02	60195.92	60177.92
1600	78962.5	378962	7081597	57720.51	60186.46	60168.46
1600	78975	378977	7081598	57717.69	60183.28	60165.28
1600	78987.5	378987	7081598	57720.74	60186.05	60168.05
1600	79000	379000	7081599	57730.89	60195.98	60177.98
1600	79012.5	379011	7081602	57747.2	60211.88	60193.88
1600	79025	379025	7081602	57749.64	60213.98	60195.98
1600	79037.5	379038	7081598	57746.87	60211.14	60193.14
1600	79050	379050	7081598	57738.39	60202.8	60184.8
1600	79062.5	379061	7081599	57735.51	60199.7	60181.7
1600	79075	379077	7081602	57744	60208.32	60190.32
1600	79087.5	379088	7081604	57752.03	60216.22	60198.22
1600	79100	379101	7081603	57762.19	60226.16	60208.16
1600	79112.5	379112	7081602	57768.78	60232.95	60214.95
1600	79125	379126	7081600	57776.07	60240.41	60222.41
1600	79137.5	379138	7081600	57778.79	60242.96	60224.96
1600	79150	379150	7081599	57777.57	60241.71	60223.71
1600	79162.5	379162	7081598	57782.65	60247.01	60229.01
1600	79175	379176	7081602	57796.56	60261.18	60243.18
1600	79187.5	379188	7081600	57800.46	60265.23	60247.23
1600	79200	379200	7081593	57796.62	60260.9	60242.9
1600	79212.5	379211	7081592	57794.16	60258.45	60240.45
1600	79225	379225	7081592	57794.78	60259.65	60241.65
1600	79237.5	379236	7081596	57797.39	60262.03	60244.03
1600	79250	379252	7081601	57796.45	60261.03	60243.03
1600	79262.5	379261	7081603	57798.99	60263.61	60245.61
1600	79275	379276	7081601	57803.41	60268.37	60250.37
1600	79287.5	379287	7081598	57808.59	60273.83	60255.83
1600	79300	379303	7081604	57828.15	60293.49	60275.49
1600	79312.5	379313	7081603	57834.16	60299.25	60281.25
1600	79325	379327	7081602	57832.98	60298.43	60280.43
1600	79337.5	379336	7081604	57807.55	60272.93	60254.93
1600	79350	379349	7081602	57810.73	60276.27	60258.27
1600	79362.5	379362	7081599	57823.79	60289.41	60271.41
1600	79375	379376	7081605	57814.22	60280.2	60262.2
1600	79387.5	379386	7081604	57793.14	60259.09	60241.09
1600	79400	379400	7081597	57793.57	60259.4	60241.4
1600	79412.5	379412	7081594	57772.82	60238.79	60220.79
1600	79425	379425	7081597	57772.7	60238.76	60220.76
1600	79437.5	379438	7081601	57783.83	60250.15	60232.15
1600	79450	379450	7081605	57791.12	60257.63	60239.63
1600	79462.5	379463	7081603	57803.4	60269.56	60251.56
1600	79475	379476	7081594	57825.66	60291.73	60273.73
1600	79487.5	379487	7081594	57812.57	60278.62	60260.62
1600	79500	379501	7081597	57810.48	60276.67	60258.67
1600	79512.5	379513	7081603	57805.14	60270.75	60252.75
1600	79525	379526	7081608	57807.99	60273.19	60255.19
1600	79537.5	379538	7081606	57808.76	60274.47	60256.47
1600	79550	379557	7081600	57843.5	60266.69	60266.69
1600	79550	379552	7081605	57814.06	60279.98	60261.98
1600	79562.5	379567	7081599	57845.12	60267.71	60267.71
1600	79575	379577	7081602	57845.71	60267.02	60267.02
1600	79587.5	379591	7081601	57813.85	60249.29	60249.29

HALCYON JOINT VENTURE  
MAGNETIC SURVEY DATA

Line	Station	X	Y	raw_mag	corrected_mag	Levelled_mag
1600	79600	379606	7081601	57790.69	60222.55	60222.55
1600	79612.5	379615	7081599	57788.54	60212.91	60212.91
1600	79625	379624	7081596	57779.07	60200.27	60200.27
1600	79637.5	379631	7081596	57777.17	60196.05	60196.05
1600	79650	379651	7081597	57769.46	60190.34	60190.34
1600	79662.5	379661	7081600	57776.48	60197.26	60197.26
1600	79675	379674	7081604	57786.13	60205.4	60205.4
1600	79687.5	379684	7081603	57776.05	60194.69	60194.69
1600	79700	379698	7081601	57767.62	60187.18	60187.18
1600	79712.5	379706	7081594	57765.87	60190.08	60190.08
1600	79725	379723	7081589	57758.57	60186.72	60186.72
1600	79737.5	379740	7081596	57758.49	60187.85	60187.85
1600	79750	379752	7081599	57755.76	60188.63	60188.63
1600	79762.5	379763	7081600	57753.75	60191.53	60191.53
1600	79775	379775	7081598	57761.24	60197.33	60197.33
1600	79787.5	379787	7081598	57770	60202.82	60202.82
1600	79800	379801	7081599	57773.15	60210.47	60210.47
1600	79812.5	379815	7081600	57770.9	60212.41	60212.41
1600	79825	379826	7081599	57778.68	60217.94	60217.94
1600	79837.5	379838	7081601	57784.68	60218.23	60218.23
1600	79850	379850	7081600	57786.43	60223.52	60223.52
1600	79862.5	379861	7081596	57783.22	60226.14	60226.14
1600	79875	379873	7081597	57787.09	60231.72	60231.72
1600	79887.5	379883	7081598	57794	60235.73	60235.73
1600	79900	379897	7081598	57803.51	60242.56	60242.56
1600	79912.5	379911	7081598	57813.22	60250.91	60250.91
1600	79925	379925	7081600	57814.06	60255.43	60255.43
1600	79937.5	379938	7081603	57828.79	60265.86	60265.86
1600	79950	379952	7081602	57827.67	60271.85	60271.85
1600	79962.5	379963	7081602	57831.29	60277.04	60277.04
1600	79975	379975	7081596	57836.74	60281.54	60281.54
1600	79987.5	379987	7081595	57846.07	60288.04	60288.04
1600	80000	380001	7081592	57849.95	60295.53	60295.53
1600	80012.5	380014	7081593	57862.81	60305.86	60305.86
1600	80025	380025	7081595	57860.75	60308.06	60308.06
1600	80037.5	380038	7081599	57856.81	60308.55	60308.55
1600	80050	380053	7081606	57840.64	60297.63	60297.63
1600	80062.5	380064	7081606	57829.06	60290.37	60290.37
1600	80075	380075	7081604	57818.04	60280.66	60280.66
1600	80087.5	380087	7081598	57825.08	60288.47	60288.47
1600	80100	380100	7081596	57821.94	60286.09	60286.09
1600	80112.5	380111	7081597	57808.16	60274.8	60274.8
1600	80125	380126	7081600	57783.21	60250.29	60250.29
1600	80137.5	380137	7081601	57772.98	60240.87	60240.87
1600	80150	380151	7081599	57770.54	60237.16	60237.16
1600	80162.5	380164	7081603	57757.01	60225.01	60225.01
1600	80175	380177	7081608	57744.63	60214.38	60214.38
1600	80187.5	380186	7081610	57738.21	60209.48	60209.48
1600	80200	380200	7081607	57734.96	60207.75	60207.75

**APPENDIX V**

**VLF-EM DATA**

HALCYON JV  
VLF-EM DATA

Line	Station	X	Y	Maine_IP	Maine_Quad	Hawaii_IP	Hawaii_Quad
1500	78900	378892	7081500	-9	-2	-4	0
1500	78912.5	378904.6	7081500	-7	0	0	0
1500	78925	378917.2	7081500	-3	0	-5	0
1500	78937.5	378929.8	7081500	-10	-2	-12	-2
1500	78950	378942.4	7081500	-8	0	-10	0
1500	78962.5	378955	7081500	-10	-2	-15	-1
1500	78975	378967.6	7081500	-15	-3	-12	-3
1500	78987.5	378980.2	7081500	-15	-5	-12	-4
1500	79000	378992.8	7081500	-15	-4	-14	-2
1500	79012.5	379005.4	7081500	-8	0	-15	0
1500	79025	379018	7081500	-12	-3	-18	0
1500	79037.5	379030.6	7081500	-11	-2	-19	0
1500	79050	379043.2	7081500	-15	-3	-22	-1
1500	79062.5	379055.8	7081500	-8	-3	-30	0
1500	79075	379068.3	7081500	-12	-3	-15	0
1500	79087.5	379080.9	7081500	-5	-3	-17	-2
1500	79100	379093.5	7081500	-12	-5	-15	0
1500	79112.5	379106.1	7081500	-15	-3	-26	0
1500	79125	379118.7	7081500	-15	-5	-24	-2
1500	79137.5	379131.3	7081500	-15	-2	-28	0
1500	79150	379143.9	7081500	-15	-5	-25	-2
1500	79162.5	379156.5	7081500	-17	-8	-15	-4
1500	79175	379169.1	7081500	-15	-7	-24	-5
1500	79187.5	379181.7	7081500	-15	-5	-32	-2
1500	79200	379194.3	7081500	-15	-5	-30	-4
1500	79212.5	379206.9	7081500	-8	-2	-17	-2
1500	79225	379219.5	7081500	-7	-3	-7	-2
1500	79237.5	379232.1	7081500	-4	-4	-14	-4
1500	79250	379244.7	7081500	-3	-4	-10	-3
1500	79262.5	379257.3	7081500	-5	-4	-13	0
1500	79275	379269.9	7081500	0	0	-10	0
1500	79287.5	379282.5	7081500	-2	0	-10	0
1500	79300	379295.1	7081500	-5	0	-10	0
1500	79312.5	379307.7	7081500	-4	0	-16	0
1500	79325	379320.3	7081500	0	0	-15	0
1500	79337.5	379332.9	7081500	0	0	-10	0
1500	79350	379345.5	7081500	0	0	-10	0
1500	79362.5	379358.1	7081500	0	0	0	0
1500	79375	379370.7	7081500	0	0	0	0
1500	79387.5	379383.2	7081500	0	0	0	0
1500	79400	379395.8	7081500	0	0	0	0
1500	79412.5	379408.4	7081500	0	0	0	0
1500	79425	379421	7081500	-5	0	0	0
1500	79437.5	379433.6	7081500	-5	0	-3	0
1500	79450	379446.2	7081500	-5	0	0	0
1500	79462.5	379458.8	7081500	-5	0	0	0
1500	79475	379471.4	7081500	-5	0	0	0
1500	79487.5	379484	7081500	0	0	0	0
1500	79500	379496.6	7081500	0	0	0	0
1500	79512.5	379509.2	7081500	0	0	0	0
1500	79525	379521.8	7081500	0	0	0	0
1500	79537.5	379534.4	7081500	0	0	0	0
1500	79550	379547	7081500	0	0	0	0

VLF

HALCYON JV  
VLF-EM DATA

Line	Station	X	Y	Maine_IP	Maine_Quad	Hawaii_IP	Hawaii_Quad
1500	79562.5	379559.4	7081500	0	0	0	0
1500	79575	379571.8	7081500	0	0	0	0
1500	79587.5	379584.3	7081500	0	0	0	0
1500	79600	379596.7	7081500	0	0	0	0
1500	79612.5	379609.1	7081500	0	0	0	0
1500	79625	379621.5	7081500	0	0	8	0
1500	79637.5	379634	7081499	-5	0	0	0
1500	79650	379646.4	7081499	-7	0	8	0
1500	79662.5	379658.8	7081499	-6	0	2	0
1500	79675	379671.2	7081499	-4	0	2	0
1500	79687.5	379683.7	7081499	-5	0	0	0
1500	79700	379696.1	7081499	-4	0	0	0
1500	79712.5	379708.5	7081499	0	0	0	0
1500	79725	379720.9	7081499	-2	0	5	0
1500	79737.5	379733.3	7081499	0	0	5	0
1500	79750	379745.8	7081499	0	0	5	0
1500	79762.5	379758.2	7081499	0	0	7	0
1500	79775	379770.6	7081499	0	0	10	0
1500	79787.5	379783	7081499	0	0	18	0
1500	79800	379795.5	7081498	0	0	10	0
1500	79812.5	379807.9	7081498	0	0	4	0
1500	79825	379820.3	7081498	0	0	3	0
1500	79837.5	379832.7	7081498	0	0	5	0
1500	79850	379845.2	7081498	-2	0	5	0
1500	79862.5	379857.6	7081498	0	0	10	0
1500	79875	379870	7081498	0	0	2	0
1500	79887.5	379882.4	7081498	0	0	5	0
1500	79900	379894.8	7081498	0	0	8	0
1500	79912.5	379907.3	7081498	0	0	8	0
1500	79925	379919.7	7081498	0	0	10	0
1500	79937.5	379932.1	7081498	0	0	10	0
1500	79950	379944.5	7081498	0	0	5	0
1500	79962.5	379957	7081497	10	6	16	0
1500	79975	379969.4	7081497	10	6	18	0
1500	79987.5	379981.8	7081497	10	7	15	0
1500	80000	379994.2	7081497	15	6	20	0
1500	80012.5	380006.7	7081497	10	6	15	0
1500	80025	380019.1	7081497	11	3	18	0
1500	80037.5	380031.5	7081497	10	4	15	0
1500	80050	380043.9	7081497	8	0	20	0
1500	80062.5	380056.3	7081497	10	2	20	6
1500	80075	380068.8	7081497	13	4	10	0
1500	80087.5	380081.2	7081497	15	6	0	0
1500	80100	380093.6	7081497	20	10	0	0
1500	80112.5	380106	7081497	10	4	0	0
1500	80125	380118.5	7081496	0	0	10	0
1500	80137.5	380130.9	7081496	5	0	0	0
1500	80150	380143.3	7081496	0	0	0	0
1500	80162.5	380155.7	7081496	10	6	0	0
1500	80175	380168.2	7081496	10	6	0	0
1500	80187.5	380180.6	7081496	10	8	0	0
1500	80200	380193	7081496	10	5	0	0
VLF 1600	78900	378898	7081606	-5	0	-15	0

HALCYON JV  
VLF-EM DATA

Line	Station	X	Y	Maine_IP	Maine_Quad	Hawaii_IP	Hawaii_Quad
1600	78912.5	378910.7	7081606	-6	0	-4	0
1600	78925	378923.3	7081606	-13	-2	-2	0
1600	78937.5	378936	7081606	-6	-1	-5	0
1600	78950	378948.6	7081606	-5	0	-8	0
1600	78962.5	378961.3	7081605	-15	-2	-20	0
1600	78975	378973.9	7081605	-10	-2	-20	0
1600	78987.5	378986.6	7081605	-15	-6	-21	-3
1600	79000	378999.2	7081605	-12	-3	-18	-4
1600	79012.5	379011.9	7081605	-10	-3	-21	-1
1600	79025	379024.5	7081605	-16	-6	-18	-2
1600	79037.5	379037.2	7081605	-12	-2	-16	0
1600	79050	379049.8	7081605	-9	-3	-11	-2
1600	79062.5	379062.5	7081605	-8	-4	-12	-2
1600	79075	379075.2	7081604	-6	-1	-9	0
1600	79087.5	379087.8	7081604	-10	-2	-16	0
1600	79100	379100.5	7081604	-3	-3	-3	-4
1600	79112.5	379113.1	7081604	-4	-2	-10	-2
1600	79125	379125.8	7081604	-5	-2	-9	-3
1600	79137.5	379138.4	7081604	-6	-3	-10	-2
1600	79150	379151.1	7081604	-4	-2	-5	0
1600	79162.5	379163.7	7081604	-3	-1	-2	0
1600	79175	379176.4	7081603	-2	-4	-7	0
1600	79187.5	379189	7081603	0	0	-12	0
1600	79200	379201.7	7081603	-8	-5	-7	-4
1600	79212.5	379214.3	7081603	-4	-3	-11	0
1600	79225	379227	7081603	-4	-3	-9	-2
1600	79237.5	379239.7	7081603	-6	-6	-7	-8
1600	79250	379252.3	7081603	-2	0	-4	0
1600	79262.5	379265	7081603	-4	-7	-10	-7
1600	79275	379277.6	7081603	-3	-6	-12	-5
1600	79287.5	379290.3	7081602	-4	-3	-10	-4
1600	79300	379302.9	7081602	-6	-2	-6	-2
1600	79312.5	379315.6	7081602	-3	-4	-10	-4
1600	79325	379328.2	7081602	-5	-3	-3	-4
1600	79337.5	379340.9	7081602	-3	-5	-4	-1
1600	79350	379353.5	7081602	-3	-3	-4	0
1600	79362.5	379366.2	7081602	-1	0	-2	0
1600	79375	379378.8	7081602	-3	0	0	0
1600	79387.5	379391.5	7081602	-1	0	-2	0
1600	79400	379404.2	7081601	-2	-3	-5	0
1600	79412.5	379416.8	7081601	-4	0	-4	0
1600	79425	379429.5	7081601	-4	0	-4	0
1600	79437.5	379442.1	7081601	0	0	0	0
1600	79450	379454.8	7081601	0	0	0	0
1600	79462.5	379467.4	7081601	0	0	0	0
1600	79475	379480.1	7081601	0	0	0	0
1600	79487.5	379492.7	7081601	0	0	0	0
1600	79500	379505.4	7081600	0	0	0	0
1600	79512.5	379518	7081600	0	0	0	0
1600	79525	379530.7	7081600	0	0	0	0
1600	79537.5	379543.3	7081600	0	0	0	0
1600	79550	379556	7081600	0	0	0	0
1600	79562.5	379568.4	7081600	0	0	0	0

VLF

HALCYON JV  
VLF-EM DATA

Line	Station	X	Y	Maine_IP	Maine_Quad	Hawaii_IP	Hawaii_Quad
1600	79575	379580.9	7081600	0	0	0	0
1600	79587.5	379593.3	7081600	0	0	0	0
1600	79600	379605.8	7081600	0	0	0	0
1600	79612.5	379618.2	7081600	0	0	0	0
1600	79625	379630.7	7081600	0	0	0	0
1600	79637.5	379643.1	7081600	0	0	0	0
1600	79650	379655.5	7081600	0	0	0	0
1600	79662.5	379668	7081600	0	0	0	0
1600	79675	379680.4	7081600	0	0	0	0
1600	79687.5	379692.9	7081600	0	0	0	0
1600	79700	379705.3	7081600	0	0	0	0
1600	79712.5	379717.8	7081600	0	0	0	0
1600	79725	379730.2	7081600	0	0	0	0
1600	79737.5	379742.6	7081600	0	0	0	0
1600	79750	379755.1	7081600	0	0	0	0
1600	79762.5	379767.5	7081600	0	0	0	0
1600	79775	379780	7081600	0	0	0	0
1600	79787.5	379792.4	7081600	10	0	9	0
1600	79800	379804.8	7081600	6	5	8	3
1600	79812.5	379817.3	7081600	2	1	17	9
1600	79825	379829.7	7081600	0	2	20	4
1600	79837.5	379842.2	7081600	5	4	25	3
1600	79850	379854.6	7081600	0	0	15	1
1600	79862.5	379867.1	7081600	4	5	18	-3
1600	79875	379879.5	7081600	0	0	13	-4
1600	79887.5	379891.9	7081599	5	5	1	-6
1600	79900	379904.4	7081599	2	0	9	-4
1600	79912.5	379916.8	7081599	1	6	5	-2
1600	79925	379929.3	7081599	0	0	8	-2
1600	79937.5	379941.7	7081599	7	4	25	-10
1600	79950	379954.2	7081599	8	2	6	-4
1600	79962.5	379966.6	7081599	10	4	0	0
1600	79975	379979	7081599	4	0	0	0
1600	79987.5	379991.5	7081599	12	4	0	0
1600	80000	380003.9	7081599	15	7	0	-2
1600	80012.5	380016.4	7081599	12	6	0	-4
1600	80025	380028.8	7081599	10	7	0	-8
1600	80037.5	380041.3	7081599	13	5	0	0
1600	80050	380053.7	7081599	10	8	0	0
1600	80062.5	380066.1	7081599	12	8	0	0
1600	80075	380078.6	7081599	5	6	3	-4
1600	80087.5	380091	7081599	10	8	0	-4
1600	80100	380103.5	7081599	10	8	0	-5
1600	80112.5	380115.9	7081599	10	10	0	0
1600	80125	380128.3	7081599	0	4	0	0
1600	80137.5	380140.8	7081599	0	0	0	0
1600	80150	380153.2	7081599	0	0	0	0
1600	80162.5	380165.7	7081599	0	0	0	0
1600	80175	380178.1	7081599	0	0	0	0
1600	80187.5	380190.6	7081599	0	0	0	0
1600	80200	380203	7081599	0	0	0	0

**APPENDIX VI**

**MINFILE OCCURENCES**

MINFILE NUMBER: **115P 011**

NAME (S): JOSEPHINE

STATUS: SHOWING

MINING DISTRICTS: DAWSON

NTS MAP (1:250000): MCQUESTEN

UTM ZONE: 8

NTS MAP (1:50000): 115P14

NORTHING: 7084612

EASTING: 401163

LATITUDE: 63° 52' 29" N

LONGITUDE: 137° 0' 43" W

LOCATION ACCURACY: 1 Kilometres

CLAIMS: RYE

START: END:

ROLL

START: END:

COMMENT:

**MINERALS:**

SIGNIFICANT:

COMMENTS: In Quartz veins.

ASSOCIATED: QUARTZ

K-FELDSPAR

SCHEELITE

COMMENT: Auriferous Quartz veins.

ALTERATION:

COMMENT:

ALTERATION TYPE:

**DEPOSIT:**

TYPE: PORPHYRY

AGE OF MINERALIZATION : (Era) : (Period) :

Start :

End :

Isotopic Age :

Material :

**COMMODITY:**

Major:

Minor:

Trace:

GOLD

TUNGSTEN

TECTONIC ELEMENT: SELWYN BASIN

**METAMORPHISM:**

Type(s):

Grade(s):

REGIONAL

HORNFELS

GREENSCHIST

Comment: Hornfels adjacent to granitic stock.

**OWNER/OPERATOR:**

YEAR	OWNER/OPERATOR	COMMENT
1902	SPISAK, M.	Staked left limit of Josephine.
1912	UNCERTAIN	Staked Verlene and Lunden claims.
1913	UNCERTAIN	Staked Verlene and Lunden claims.
1914	UNCERTAIN	Staked Verlene and Lunden claims.
1962	GERGICH, T.	Restaked as due claims.
1980	CANADA TUNGSTEN MINING CORPORATION LIMITED	Restaked as CC claims.

1988	GOLDRITE MINING CORPORATION	Restaked as Rye & Roll claims.
1991	NORANDA EXPLORATION COMPANY LIMITED	Acquired option.
1992	IVANHOE MINES LIMITED	Acquired option.
1994	FIRST DYNASTY MINES LIMITED	FIRST DYNASTY ACQUIRES IVANHOE GOLDFIELDS LTD..
1995	KENNECOTT CANADA INCORPORATED	OPTIONS CLEAR CREEK PROPERTIES. DROPS OPTION AT END OF YEAR.
1996	NEW MILLENNIUM MINING LIMITED	NEW MILLENNIUM, AN WHOLLY OWNED SUBSIDIARY, BECOMES OPERATOR.

**WORK HISTORY:**

YEAR RANGE: 1902 TO 1903

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
UNDERGROUND DEVELOPMENT	0	0	
STAKING	0	0	

COMMENT: 3 adits 15', 65', and 68' long.

YEAR RANGE: 1962 TO 1962

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
STAKING	0	0	

COMMENT:

YEAR RANGE: 1980 TO 1980

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
STAKING	0	0	

COMMENT:

YEAR RANGE: 1981 TO 1981

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
GEOCHEMICAL SAMPLING	0	0	
GEOLOGICAL MAPPING	0	0	

COMMENT:

YEAR RANGE: 1991 TO 1992

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
GEOLOGICAL MAPPING	0	0	
TRENCHING	0	0	
GEOPHYSICAL SURVEY	0	0	
SOIL SAMPLING	0	0	
ROTARY DRILLING	6	644	METRES

COMMENT:

YEAR RANGE: 1995 TO 1995

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
REVERSE CIRCULATION	27	1970	METRES

COMMENT: ALSO LIMITED PROSPECTING AND RECON SAMPLING.

YEAR RANGE: 1997 TO 1997

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
TRENCHING			

COMMENT: THREE TRENCHES ON BARNEY RIDGE AND ONE TRENCH ON THE SADDLE ZONE. ALSO FIVE 300 M SAMPLE LINES ON NORTHWEST CONTACT.

**EXPLORATION RESULTS:**

**Geochemical (Strong):**

Commodity                      Sample Type

**Geochemical (Weak):**

Commodity                      Sample Type

**Geophysical:**

**Visual:**

**RESERVES:**

**HOST ROCK:**

DOMINANT HOST ROCK: METASEDIMENTARY

AGE (Era)

(Period)

HOST ROCK GROUP: HYLAND

Start: PROTEROZOIC

FORMATION:

End: PALEOZOIC

CAMBRIAN

INFORMAL ROCK UNIT:

DATING METHOD:

ISOTOPIC AGE:

MATERIAL DATED:

LITHOLOGIES: QUARTZITE  
 SCHIST

COMMENT:

DOMINANT HOST ROCK: PLUTONIC

AGE (Era)

(Period)

HOST ROCK GROUP: UNSPECIFIED

Start: MESOZOIC

CRETACEOUS

FORMATION:

End: MESOZOIC

CRETACEOUS

INFORMAL ROCK UNIT:

DATING METHOD:

ISOTOPIC AGE:

MATERIAL DATED:

LITHOLOGIES: PORPHYRITIC GRANITE

COMMENT:

**CAPSULE WORK HISTORY**

M. Spisak staked the Porcupine, Gold Belt, Whistler, etc cl (6164) in Sep/02 on the left limit of Josephine Creek, 10 km above the mouth and drove three adits (4.6 m, 19.8 m and 20.7 m) in 1902-03. The Verlone and Lunden cl (12244) were staked immediately south in Jul/12 and Apr/14.

Restaked as Due cl (79087) in Jul/62 by T. Gergich. Restaked as part of a large block of CC cl (YA53321) in Sep/80 by Canada Tungsten Mg Corp L, and optioned to Bema Industries Ltd which performed mapping and geochem sampling in 1981-82.

Restaked as Rye cl (YB5624) in Jun/87 by K. McCrory and R. Robertson and optioned to Goldrite Mg Corp the same year. Golden Rum Res L tied on Roll cl (YB17773) to the east in Sep/88 and transferred them to Goldrite Mg in Jun/89. Goldrite performed mapping, geochemical sampling and limited magnetic and IP surveys before relinquishing its option.

Noranda Exploration Co. Ltd optioned the property in Feb/91 and performed prospecting, soil sampling, magnetic and IP surveys and trenching, and added 34 Dum cl (YB40487) to the west side in Jan/92. Lodestar Explorations Inc funded Noranda's exploration in 1992 to earn a 50% interest. This consisted of a trenching program and 6 RC drillholes (644 m).

Noranda relinquished its option and Ivanhoe Goldfields Ltd optioned all of the Clear Creek claims in late 1992. In Aug/94, First Dynasty Mines Ltd acquired Ivanhoe. In Jun/95 Kennecott Canada Inc optioned the Clear Creek area claims (including the Rye and CC claims) and explored between June and Sept/95 with reverse circulation drilling program on the Rhosgobel stock and soil sampling, geological mapping, trenching and road building throughout the claim block. In Nov/95 Kennecott dropped its option. New Millennium Mining Ltd, an wholly owned subsidiary of First Dynasty, became operator in 1996.

New Millennium did a limited program of trenching on the Barney Ridge (three trenches) and Saddle zones (one trench) in the fall of 1997. Five 1000 meter soil lines were completed near the northeastern boundary of the property.

**CAPSULE GEOLOGY**

Gold occurs with arsenopyrite along a 300 x 2 700 m shear zone which cuts medium to coarse grained porphyritic granite of mid Cretaceous age, and hornfelsed quartzite and argillite of the Late Proterozoic-Early Cambrian Hyland Group. The Josephine stock is the most northerly of three adjacent intrusions: the Goldrite claims also cover the Pukelman stock (Minfile 115P 013) and part of the Rhosgobel stock (Minfile 115 P 12). The original Josephine showing consists of two quartz-arsenopyrite-pyrrhotite veins in hornfels near the intrusive contact. Bema obtained values up to 5.14 g/t Au from these veins, and up to 7.63 g/t Au and 0.61% WO<sub>3</sub> from a stockwork of quartz-Ksparscheelite veinlets.

Soil sampling for Goldrite in 1988 outlined large areas of anomalous gold (>100 ppb Au, frequently >500 ppb) in talus fines. The Contact zone anomaly to the south measures 1 800 m by 1 600 m. The Saddle Zone anomaly to the north measures 2 700 by 300 m. Goldrite found several quartz-sulphide veins containing galena, pyrite, pyrrhotite and stibnite associated with lamprophyre and quartz-porphry dykes along a fault gully. The veins contained up to 3 719 ppb Au. Disseminated pyrrhotite and pyrite were found in the metasedimentary rocks.

Noranda mapped several phases in the Josephine stock including diorite, megacrystic feldspar-biotite porphyry and a bluish, fine

grained margin. In the Saddle Zone area both the stock and metasedimentary rocks contain disseminated arsenopyrite. Grab samples returned average values of 3 to 3.5 g/t Au, and a 1991 trench returned anomalous gold values across 160 m, including 2.11 g/t Au across 24 m which contained a high grade section grading 6.05 g/t across 5 m, suggesting potential for bulk tonnage, low-grade gold deposit.

In the Eiger zone, located 1 km northeast of the Saddle Zone, quartz-arsenopyrite veins follow parallel shears in diorite. The shears strike 100° and dip steeply south. Assays of these veins returned values as high as 343.5 g/t Au, and a chip sample assayed 4.7 g/t Au across 5 m.

Geochemical results show that the entire property is permeated with arsenic, but that there is a strong correlation between gold and bismuth in the Josephine (Saddle Zone) area. A parallel east-west zone of strongly anomalous gold in soil (Contact Zone) cuts across the adjacent Pukelman intrusion, but lacks bismuth. A third parallel zone of anomalous gold bisects the Rhosgobel intrusion, and in this case the gold appears to correlate with tungsten.

Emond and Lynch (1992) noted a strong positive correlation between gold and bismuth, and suggested that bismuth can be used as a pathfinder for gold in this area. A quartz-arsenopyrite vein assayed by Murphy et al. in 1993 showed a correlation between gold, tungsten and bismuth, with values of 5040 ppb Au, 8.1% As, 392 ppm Bi and 0.1% W.

Kennecott carried out geological mapping around the Eiger stock. A float sample of rusty quartz monzonite dyke containing minor quartz veining collected between the Eiger and Saddle stocks returned 355 ppb Au. The bulk of exploration work carried out in 1995 was carried out on other minfile occurrences located within the Clear Creek claims.

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MINFILE NUMBER: **115P 012**

NAME (S): RHOSGOBEL

STATUS: SHOWING

MINING DISTRICTS: DAWSON

NTS MAP (1:250000): MCQUESTEN

UTM ZONE: 8

NTS MAP (1:50000): 115P14

NORTHING: 7080783

LATITUDE: 63° 50' 23' N

EASTING: 398868

LONGITUDE: 137° 3' 22' W

LOCATION ACCURACY: .5 Kilometres

CLAIMS: RAIN

START: END:

BEE

START: END:

JUB JUB

START: END:

CC

START: END:

RUM

START: END:

RYE

START: END:

DUM

START: END:

FAR

START: END:

TP

START: END:

JD

START: END:

COMMENT:

**MINERALS:**

SIGNIFICANT: SCHEELITE

COMMENTS: Scheelite found with auriferous arsenopyrite.

ASSOCIATED: DIOPSIDE

QUARTZ

CASSITERITE

COMMENT: Diopside skarn. Mineralized quartz veins.

ALTERATION:

COMMENT:

ALTERATION TYPE:

**DEPOSIT:**

TYPE: PORPHYRY

AGE OF MINERALIZATION : (Era) : (Period) :

Start :

End :

Isotopic Age :

Material :

**COMMODITY:**

Major:

Minor:

Trace:

GOLD

SILVER

BISMUTH

TECTONIC ELEMENT: MCQUESTEN PLUTONIC SUITE

**METAMORPHISM:**

Type(s):

Grade(s):

REGIONAL

HORNFELS

GREENSCHIST

Comment: Hornfelsed adjacent to granite stock.

**OWNER/OPERATOR:**

<u>YEAR</u>	<u>OWNER/OPERATOR</u>	<u>COMMENT</u>
1971	UNITED KENO HILL MINES LIMITED	Tied on claims in south.
1971	STANDARD OIL COMPANY OF B.C. LIMITED	Staked as Rhosgobel claims.
1971	SILVER STANDARD MINES LIMITED	Tied onto southeast and northwest.
1971	CANADA TUNGSTEN MINING CORPORATION LIMITED	Staked as Rhosgobel claims.
1978	THOM, A.	Restaked on south side - Rain claim.
1978	HUTTON, D.	Restaked on north side - Bee claim.
1979	CORTIN PROJECT	Added Jubjub claims to east.
1980	CANADA TUNGSTEN MINING CORPORATION LIMITED	Optioned Rain & Bee claims.
1984	HARPER, N.	Rain group was transferred.
1988	ROBERTSON, R.	Staked Rum claims.
1988	GOLDRITE MINING CORPORATION	Optioned Rum cls, staked Rye & Roll cls.
1993	IVANHOE MINES LIMITED	Obtained some Run, Rye Dum cls.
1993	WONDGA, B. AND LUECK, B.	Staked Far claims together.
1994	FIRST DYNASTY MINES LIMITED	IVANHOE TAKEN OVER BY FIRST DYNASTY.
1994	HART, L.	Restaked TP and JD claims.
1994	LUECK, B.	Staked TP & JD claims.
1994	TRUDEAU, D. AND JACKSON, D.	Staked Hail claims SW of showing.
1995	KENNECOTT CANADA INCORPORATED	OPTIONS CLEAR CREEK PROPERTIES FROM FIRST DYNASTY THEN DROPS OPTION IN NOVEMBER.
1996	NCW MILLENNIUM MINING LIMITED	AN WHOLLY OWNED SIBSIDIARY OF FIRST DYNASTY BECOMES OPERATOR.

**WORK HISTORY:**

YEAR RANGE: 1971 TO 1971

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
GEOLOGICAL MAPPING	0	0	
SOIL SAMPLING	0	0	
STAKING	0	0	

COMMENT:

YEAR RANGE: 1979 TO 1980

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
GEOCHEMICAL SAMPLING	0	0	

COMMENT:

YEAR RANGE: 1981 TO 1982

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
GEOCHEMICAL SAMPLING	0	0	
GEOLOGICAL MAPPING	0	0	

COMMENT:

YEAR RANGE: 1993 TO 1993

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
SOIL SAMPLING	0	0	

COMMENT: Ivanhoe carried out work on two zones of Rhosgobel intrusive stock.

YEAR RANGE: 1994 TO 1994

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
ROAD CONSTRUCTION	0	0	

COMMENT: Ivanhoe also constructed drill pads.

YEAR RANGE: 1995 TO 1995

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
REVERSE CIRCULATION	27	1970.5	METRES

COMMENT: ALSO ROAD CONSTRUCTION AND LIMITED SOIL SAMPLING

**EXPLORATION RESULTS:**

<b>Geochemical (Strong):</b>		<b>Geochemical (Weak):</b>	
Commodity	Sample Type	Commodity	Sample Type
GOLD	SOIL SAMPLE		

**Geophysical:** **Visual:**

**RESERVES:**

**HOST ROCK:**

DOMINANT HOST ROCK: METASEDIMENTARY	AGE (Era)	(Period)
HOST ROCK GROUP: HYLAND	Start: PROTEROZOIC	
FORMATION:	End: PALEOZOIC	CAMBRIAN

INFORMAL ROCK UNIT: **DATING METHOD:**  
**ISOTOPIC AGE:**  
**MATERIAL DATED:**

LITHOLOGIES: SCHIST  
 QUARTZITE

COMMENT:

DOMINANT HOST ROCK: PLUTONIC	AGE (Era)	(Period)
HOST ROCK GROUP:	Start: MESOZOIC	CRETACEOUS
FORMATION:	End: MESOZOIC	CRETACEOUS

INFORMAL ROCK UNIT: RHOSGOBEL STOCK **DATING METHOD:**  
**ISOTOPIC AGE:**  
**MATERIAL DATED:**

LITHOLOGIES: PORPHYRITIC GRANITE

COMMENT:

**CAPSULE WORK HISTORY**

Staked as Rhosgobel cl (Y85051) in Jul/71 by a joint venture between Cantung and Standard O C of BC L, which explored by grid geochem and mapping. The Nop cl (Y57673) were tied on to the south in Mar/71 by United Keno Hill ML following release of GSC Open File 51 and were explored with geochem sampling and mapping later in the year. Three groups of WR cl (Y85062) were staked in Aug/71 adjoining to the southeast and northwest by Silver Standard ML.

Restaked as Rain cl (YA31503) in Aug/78 by A. Thom on the south side and Bee cl (YA31794) in Sep/78 by D. Hutton on the north side. The Jub Jub cl (YA31930) were added on the east in Mar/79 by the Cortin Project (CCH Res L, Inco & Billiton E Can L), which explored with geochem surveys in 1979 and 1980.

Cantung surrounded the target with a large block of CC cl (YA53506) in Sep/80, optioned the Rain and Bee groups, and performed mapping and sampling in 1981 and 1982 before dropping the option. The Rain group was transferred in Jul/84 to N. Harper who trenced in 1984-88.

R. Robertson tied on the Rum claims (YA88956) in September, 1988 and optioned them to M.E. Compu Software Inc., which changed its name to Goldrite Mining Corp. Goldrite tied on the Rye, (YB05624) and Roll (YB17773) claims to the north and east in Sep/88.

In late 1992 Ivanhoe Goldfields Ltd optioned all of the Clear Creek claims including the Rum, Rye and Dum claims, from their various owners. Ivanhoe performed a soil geochemical survey in two zones of the Rhosgobel intrusive stock in Aug/93 and added the Wet 1-28 cl (YB45604) in Sep/93. In 1994, Ivanhoe was acquired by First Dynasty Mines Ltd. In Sep/94 First Dynasty constructed drill pads and access roads to the Saddle and Rhosgobel zones.

In Jun/95 Kennecott Canada Inc optioned the Clear Creek area claims and carried out a large exploration program on the Clear Creek claims including a reverse circulation drilling on the Rhosgobel stock, soil sampling, geological mapping, trenching and road

building throughout the claim block. In Nov/95 Kennecott dropped its option.

B. Lueck and R. Wongda staked the Far 1-64 cl (YB42003) and Far 65-70 cl (YB29811) in May/93 and optioned them to Farallon Resources Ltd. In July and Aug/93 Farallon carried out reconnaissance sampling on the claims. Farallon dropped its option at the end of the summer. In the summer of 1994 Lueck carried out a detailed soil sample survey in the north-western end of the property for Thor Explorations Ltd, a company controlled by Lueck. L. Hart restaked the Far cl 1-64 (YB42003) in Dec/94.

B. Lueck staked the TP cl 2, 4-8, (YB48042) 6 km south of the occurrence in Mar/94. L. Hart restaked the claims in Dec/94.

Lueck staked the JD cl 1-91 (YB48278) south of the Wet claims in Mar/94. L. Hart restaked JD cl 33-64 (YB48310) and 87-91 (YB48342) in Dec/94. In Sept/95 JD cl 1-32 (YB48278) and JD A (YB48347) were transferred to L. Hart.

D. Trudea and D. Jackson staked the Hail claims southwest of the occurrence in July/94.

New Millennium Mining Inc., an wholly owned subsidiary of First Dynasty, becomes operator of the Clear Creek project in 1996.

#### CAPSULE GEOLOGY

The Rhosgobel claims were staked on a weakly quartz veined porphyritic granite stock of mid-Cretaceous age, which intrudes metasedimentary rocks of the Late Proterozoic to Early Cambrian Hyland Group. Scheelite occurs with gold and arsenopyrite in and occasionally disseminated between quartz veins in the granite, and in diopside skarns along the margins of the stock.

Skarn specimens assayed up to 1.3% WO<sub>3</sub>, but the overall grade of the stockwork zone was estimated to be less than 0.05% WO<sub>3</sub>. Quartz vein specimens assayed up to 45 ppb Au and 46 ppb Ag. Minor cassiterite occurs in greisen breccias above a granitic cupola.

The Jub claims were staked on silver geochemical anomalies. The 1981 sampling outlined three anomalies. A gold anomaly averaging 300 ppb extends for 800 m over the hornfels zone on the south side of the Pukelman stock. Specimens of quartz with arsenopyrite from a stockwork in the hornfels zone assayed up to 45.0 g/t Au and 46 g/t Ag.

In the central part of the grid, a strong northeast-trending tungsten-gold anomaly covers an area 1 000 x 400 m underlain by porphyritic quartz monzonite, and an east-trending tungsten anomaly (40 to 560 ppm W) coincides with the south contact of the Rhosgobel stock. Soil sampling in 1988 returned several values up to 408 ppb Au, and a specimen of quartz vein float assayed 1 141 ppb Au.

Murphy et al. (1993) noted a strong correlation between gold, bismuth and tungsten on the Rhosgobel property. Four specimens of quartz vein material contained between 2 330 and 15 000 ppb Au, 26 to 318 ppm Bi and 55 ppm to 0.2% W.

Kennecott completed 27 reverse circulation holes totalling 1 970.5 m on the Rhosgobel stock. The drilling tested a 1.5 by 2.5 km area of anomalous Au geochemistry associated with sheeted quartz veins in the stock. The drilling program delineated a zone about 1 200 m by 200 m by 65 m deep (about 40 million tonnes) with a potential average Au grade greater than 300 ppb. This zone contains a higher grade core with a potential for about 2 million tonnes grading >1 gram per tonne Au. Kennecott also constructed access roads and collected two lines of soil samples south of the Rhosgobel stock. None of the samples returned anomalous values.

Farallon Resources Ltd collected 8 rock and 15 soil samples on their two visits to the property. The soil samples returned a high of 50 ppb Au while the rock samples returned a high of 341 ppb Au. Lueck's 1994 detailed soil sample survey was centered over a portion of the Rhosgobel Pluton believed to have potential for an intrusive hosted gold deposit. A widespread north-west trending Au in soil anomaly was outlined with several zones returning values in excess of 100 ppb Au.

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MINFILE NUMBER: **115P 013**

NAME (S): PUKELMAN

STATUS: DRILLED PROSPECT

MINING DISTRICTS: DAWSON

NTS MAP (1:250000): MCQUESTEN

UTM ZONE: 8

NTS MAP (1:50000): 115PV14

NORTHING: 7083855

EASTING: 398680

LATITUDE: 63° 52' 2" N

LONGITUDE: 137° 3' 43" W

LOCATION ACCURACY: .5 Kilometres

CLAIMS: RUM

START:

END:

COMMENT:

**MINERALS:**

SIGNIFICANT: SCHEELITE

COMMENTS: Sheeted quartz k-feldspar vein: containing scheelite molybdenite in pukelman stock. Gold-bearing arsenophite galena and scheelite in quartz veins and stockwork adjacent to stock.

ASSOCIATED: PYRITE

MOLYBDENITE

COMMENT: Veins and stockwork.

ALTERATION: CLAY

MANGANITE

LIMONITE

AUGELITE

COMMENT: Clay altered adjacent to stockwork zones, manganese and limonite stained, fault gouge.

ALTERATION TYPE: CLAY

OXIDATION

**DEPOSIT:**

TYPE: PORPHYRY

AGE OF MINERALIZATION : (Era) : (Period) :

Start :

End :

Isotopic Age :

Material :

**COMMODITY:**

Major:

Minor:

Trace:

GOLD

TECTONIC ELEMENT: MCQUESTEN PLUTONIC SUITE

**METAMORPHISM:**

Type(s):

Grade(s):

REGIONAL

HORNFELS

GREENSCHIST

Comment: Hornfels adjacent to stock.

**OWNER/OPERATOR:**

YEAR OWNER/OPERATOR

COMMENT

1971 STANDARD OIL COMPANY OF B.C. LIMITED Staked as Pukelman

1971 CANADA TUNGSTEN MINING CORPORATION Staked as Pukelman.  
 LIMITED

1978 THOM, A. SW side restaked as Rain claims.

1978 HUTTON, D. SE side restaked as Bee claim.

1980	CANADA TUNGSTEN MINING CORPORATION LIMITED	Optioned Rain & Bee groups & added CC cl
1987	ROBERTSON, A.	Restaked as Rum claims.
1987	MCCRORY, K.	Restaked as Rum claims.
1987	M. E. COMPU SOFTWARE INCORPORATED	Optioned Rum claims.
1988	GOLDRITE MINING CORPORATION	Name changed from M.E. Compu Software.
1991	ROBERTSON, R.	STAKED MORE RUM CLAIMS
1992	NORANDA EXPLORATION COMPANY LIMITED	OPTIONS THE CLEAR CREEK PROPERTY.
1994	FIRST DYNASTY MINES LIMITED	FIRST DYNASTY TAKES OVER IVANHOE
1995	KENNECOTT CANADA INCORPORATED	OPTIONS PROPERTY EARLY 1995 AND DROPS OPTION IN NOVEMBER OF SAME YEAR.
1996	NEW MILLENNIUM MINING LIMITED	WHOLLY OWNED SUBSIDIARY OF FIRST DYNASTY BECOMES OPERATOR.

**WORK HISTORY:**

YEAR RANGE: 1969 TO 1969

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
SOIL SAMPLING	0	0	
GEOLOGICAL MAPPING	0	0	
STAKING	0	0	

COMMENT:

YEAR RANGE: 1978 TO 1978

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
STAKING	0	0	

COMMENT:

YEAR RANGE: 1981 TO 1982

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
GEOCHEMICAL SAMPLING	0	0	
GEOLOGICAL MAPPING	0	0	

COMMENT:

YEAR RANGE: 1987 TO 1987

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
GEOCHEMICAL SAMPLING	0	0	
PROSPECTING	0	0	
STAKING	0	0	

COMMENT:

YEAR RANGE: 1988 TO 1988

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
DIAMOND DRILLING	8	1236.56	METRES
BULLDOZER TRENCHING	0	0	
GEOPHYSICAL SURVEY	0	0	
SOIL SAMPLING	0	0	
GEOCHEMICAL SAMPLING	0	0	

COMMENT: 8 trenches, 5 reached bedrock. VLF-EM & MAG surveys.

**EXPLORATION RESULTS:**

**Geochemical (Strong):**

Commodity	Sample Type
GOLD	SOIL SAMPLE

**Geochemical (Weak):**

Commodity	Sample Type
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**Geophysical:****Visual:****RESERVES:****HOST ROCK:**

DOMINANT HOST ROCK: METASEDIMENTARY

HOST ROCK GROUP: HYLAND

FORMATION:

INFORMAL ROCK UNIT:

LITHOLOGIES: SCHIST  
GNEISS  
QUARTZITE

COMMENT:

DOMINANT HOST ROCK: PLUTONIC

HOST ROCK GROUP:

FORMATION:

INFORMAL ROCK UNIT: PUKELMAN STOCK

LITHOLOGIES: PORPHYRITIC GRANITE

COMMENT:

AGE (Era)

(Period)

Start: PROTEROZOIC

End: PALEOZOIC

DATING METHOD:

ISOTOPIC AGE:

MATERIAL DATED:

CAMBRIAN

AGE (Era)

(Period)

Start: MESOZOIC

End: MESOZOIC

DATING METHOD:

ISOTOPIC AGE:

MATERIAL DATED:

CRETACEOUS

CRETACEOUS

**CAPSULE WORK HISTORY**

Discovered by Canada Tungsten Mg CL in 1969 and staked as the Pukelman cl (Y65043) in Jul/71 in a joint venture with Standard OC of BC L. The showing was mapped and grid sampled later in the year.

The southwest side was restaked as Rain cl (YA31503) in Aug/78 by A. Thom, while the SE side was restaked as Bee cl (YA31794) in Sep/78 by D. Hutton. Canada Tungsten Mg Corp L optioned the Rain and Bee groups and added a large block of CC cl (YA53321) in Sep/80 and explored with geological and geochem surveys in 1981 and 1982.

Restaked as Rum cl (YA88956) in Apr/87 by R. Robertson & K. McCrory and optioned to M.E. Compu Software Inc, which carried out prospecting and geochem sampling in 1987 and changed its name to Goldrite Mg Corp and explored with geochem, VLF-EM and mag surveys and 8 diamond drill holes in 1988. Robertson added further Rum cl (YB89345) in Jan/91. Several of the Rum and Rye claims were transferred to K. McCrory and R. Robertson in Feb/92. Noranda Exploration Co. Ltd optioned the property and conducted a drilling program on the Rum 16 etc cl (YA88971) in 1992. Noranda relinquished its option and Ivanhoe Goldfields Ltd optioned all of the Clear Creek claims in late 1992.

In 1994, First Dynasty acquires Ivanhoe. In Jun/95 Kennecott Canada Inc optioned the Clear Creek area claims (including the Rum and CC claims) and carried out a large exploration program between June and Sept/95 including reverse circulation drilling on the Rhogobel stock, and soil sampling, geological mapping, trenching and road building throughout the claim block. In Nov/95 Kennecott dropped its option. New Millennium Mining Corp., an wholly owned subsidiary of First Dynasty, becomes the operator.

**CAPSULE GEOLOGY**

Sheeted quartz-K feldspar veins containing scheelite, molybdenite and pyrite occur within a mid-Cretaceous stock of biotite-hornblende granite which intrudes metasedimentary rocks of the Late Proterozoic-Early Cambrian Hyland Group. The best developed vein system underlies an area about 150 x 150 m and grades less than 0.05% WO<sub>3</sub>. Some scheelite is also disseminated within the intrusion. Gold-bearing arsenopyrite, galena and scheelite occur in sheeted quartz veins and argillically altered stockwork zones peripheral to the stock. Specimens of vein material assay up to 45.0 g/t Au and 227.7 g/t Ag.

The 1988 soil survey outlined two parallel, east-west anomalies (400 x 300 m and 300 x 200 m) with values over 500 ppb Au and as high as 4 220 ppb Au. Quartz porphyry float from the main (Saddle) zone contained pyrite and arsenopyrite and returned assays as high as 4290 ppb Au. A large irregular-shaped anomaly on the southeast corner of the Pukelman grid is called the Contact zone. In the Contact zone, quartz-arsenopyrite float containing between 8.9 and 194.5 ppb Au was found near the intersection of a northeast-trending fault and a quartz porphyry dyke.

Goldrite's trench #3 tested a 3 780 ppb Au soil anomaly on the Contact zone, and exposed a fault zone and dyke striking 060°. A 1.0 m chip sample of manganese-stained quartzite with quartz-arsenopyrite veins contained 8740 ppb Au. Trench #5 tested a 3 357 ppb Au soil anomaly and returned values of 916 and 840 ppb Au across 1.0 m of oxidized sericite schist. Trench #6 tested a 1 626 ppb Au soil anomaly. Narrow quartz-arsenopyrite veins assayed up to 60.0 g/t Au. A 0.55 m chip sample of clay-altered biotite-feldspar

porphyry contained 5 100 ppb Au.

The 1988 drillholes tested the Contact zone soil anomaly over a strike length of 250 m. Each hole intersected the same northeast-trending fault marked by limonite and gouge, and associated with bleaching, argillization, sericitization and silicification of the porphyry and metasedimentary wall rocks. Narrow stringers of quartz, arsenopyrite and pyrite occur in the fault zone, and arsenopyrite and pyrite are disseminated in the dyke. Intersections from the fault zone assayed up to 2.19 g/t Au over 3.55 m and 4.68 g/t Au over 1.80 m, with values as high as 8.60 g/t Au over 1.1 m in the immediate hanging wall. At the east end of the Contact zone, a quartz-arsenopyrite vein in the footwall assayed 1.01 g/t Au over 4.3 m.

Murphy et al. (1993) obtained up to 960 ppb Au from specimens of intrusive float cut by thin quartz veins, but no bismuth was detected.

Kennecott constructed 2 drill pads near the Pukelman occurrence but did no other work.

#### REFERENCES

EMOND, D.S., 1985. Tin and tungsten veins and skarns in the McQuesten River Area. In: Exploration in Yukon Overview, Appendix C; Exploration and Geological Services Division, DIAND Open File.

EMOND, D.S., 1992. Petrology and geochemistry of tin and tungsten mineralized plutons, McQuesten River Region, Central Yukon. In: Yukon Geology, Vol. 3, Exploration and Geological Services Division, DIAND, p. 167-195.

EMOND, D.S., and LYNCH, T., 1992. Geology, mineralogy and geochemistry of tin and tungsten veins, breccias and skarns, McQuesten River region (115P (North) and 105M 13), Yukon. In: Yukon Geology, Vol. 3, Exploration and Geological Services Division, DIAND, p. 133-159.

GARRETT, R.G., 1971. Molybdenum, tungsten and uranium in acid plutonic rocks as a guide to regional exploration, SE Yukon. Canadian Mining Journal, Apr/71, p. 37-40.

GEOLOGICAL SURVEY OF CANADA, Open File Report 51.

KENNECOTT CANADA INC, Feb/95. Assessment Report #093372 by S. Coombes.

MURPHY, D.C., HÉON, D., AND HUNT, J., 1993a. Geological overview of Clear Creek map area, western Selwyn Basin (NTS 115P/14). In: Yukon Exploration and Geology 1992, Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada.

MURPHY, D.C., HÉON, D., AND HUNT, J., 1993b. Geological map of Clear Creek map area, western Selwyn Basin (NTS 115P/14). In: Yukon Exploration and Geology 1992, Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open File 1993-1(G), 1:50 000.

YUKON EXPLORATION AND GEOLOGY 1981, p. 228.

YUKON EXPLORATION & GEOLOGY 1995, p. 13-14, 16.

MINFILE NUMBER: **115P 023**

NAME (S): LEWIS

SLEET

STATUS: DRILLED PROSPECT

MINING DISTRICTS: DAWSON

NTS MAP (1:250000): MCQUESTEN

UTM ZONE:

8

NTS MAP (1:50000): 115P14

NORTHING:

7081159

LATITUDE: 63° 50' 32" N

EASTING:

395886

LONGITUDE: 137° 7' 1" W

LOCATION ACCURACY: .5 Kilometres

CLAIMS:

COMMENT:

**MINERALS:**

SIGNIFICANT:

COMMENTS:

ASSOCIATED: QUARTZ

PYRITE

COMMENT: Auriferous arsenopyrite in quartz veins and auriferous massive pyrite bands.

ALTERATION: SERICITE

CLAY

PYRITE

COMMENT: Pyrite - sericite - quartz - clay gouge zone.

ALTERATION TYPE: SERICITIC

CLAY

SILICIFICATION

**DEPOSIT:**

TYPE: VEIN

AGE OF MINERALIZATION : (Era) :

(Period) :

Start :

End :

Isotopic Age :

Material :

**COMMODITY:**

Major:

Minor:

Trace:

GOLD

TECTONIC ELEMENT: SELWYN BASIN

**METAMORPHISM:**

Type(s):

Grade(s):

REGIONAL

GREENSCHIST

Comment:

**OWNER/OPERATOR:**

YEAR OWNER/OPERATOR

COMMENT

1902 PRIEST, E.D.

Staked along with others 10-15 claims.

1974 ASARCO

Staked as Gulch claims.

1977 HUTTON, T.

Restaked on southeast side - Mike claim.

1978 HARPER, N.

Restaked on southwest side - wide claim.

1980	CANADA TUNGSTEN MINING CORPORATION LIMITED	Restaked as part of CE claim block.
1987	SECRET PASS MINERALS LIMITED	Optd. property & adjacent wind & rain cl
1987	BLACKSTONE PLACER MINING LIMITED	Restaked as sleet claims.
1992	IVANHOE MINES LIMITED	TAKES OPTION ON ALL CLEAR CREEK PROPERTY
1994	FIRST DYNASTY MINES LIMITED	TAKES OVER IVANHOE AND ACQUIRES CLEAR CREEK PROPERTY.
1996	NEW MILLENNIUM MINING LIMITED	WHOLLY OWNED SUBSIDIARY OF FIRST DYNASTY BECOMES OPERATOR.

**WORK HISTORY:**

YEAR RANGE: 1902 TO 1902

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
HAND TRENCHING	0	0	
STAKING	0	0	

COMMENT:

YEAR RANGE: 1974 TO 1974

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
STAKING	0	0	
GEOLOGICAL MAPPING	0	0	
SOIL SAMPLING	0	0	

COMMENT:

YEAR RANGE: 1977 TO 1977

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
STAKING	0	0	

COMMENT:

YEAR RANGE: 1980 TO 1980

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
STAKING	0	0	

COMMENT:

YEAR RANGE: 1981 TO 1981

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
GEOCHEMICAL SAMPLING	0	0	
GEOLOGICAL MAPPING	0	0	

COMMENT:

YEAR RANGE: 1987 TO 1987

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
STAKING	0	0	
LINECUTTING	0	0	
SOIL SAMPLING	0	0	
BULLDOZER TRENCHING	0	0	

COMMENT:

YEAR RANGE: 1989 TO 1989

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
DIAMOND DRILLING	4	276	METRES

COMMENT:

YEAR RANGE: 1992 TO 1992

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
TRENCHING	0	0	

**COMMENT:**

YEAR RANGE: 1995 TO 1995

WORK TYPE #DRILL HOLES AMOUNT UNIT

ROAD CONSTRUCTION

COMMENT: ROADS CONSTRUCTED AS PART OF KENNECOTT'S EXPLORATION PROGRAM ON THE CLEAR CREEK PROJECT

**EXPLORATION RESULTS:**

**Geochemical (Strong):**

Commodity Sample Type

**Geochemical (Weak):**

Commodity Sample Type

**Geophysical:**

INDUCED POLARIZATION

**Visual:**

**RESERVES:**

**HOST ROCK:**

DOMINANT HOST ROCK: METASEDIMENTARY

AGE (Era) (Period)

HOST ROCK GROUP: HYLAND

Start: PROTEROZOIC

FORMATION:

End: PALEOZOIC CAMBRIAN

INFORMAL ROCK UNIT:

DATING METHOD:

ISOTOPIC AGE:

MATERIAL DATED:

LITHOLOGIES: SCHIST  
 QUARTZITE  
 PHYLLITE

**COMMENT:**

DOMINANT HOST ROCK: PLUTONIC

AGE (Era) (Period)

HOST ROCK GROUP: UNSPECIFIED

Start: MESOZOIC CRETACEOUS

FORMATION:

End: MESOZOIC CRETACEOUS

INFORMAL ROCK UNIT:

DATING METHOD:

ISOTOPIC AGE:

MATERIAL DATED:

LITHOLOGIES: GRANODIORITE

**COMMENT:**

**CAPSULE WORK HISTORY**

About 10 to 15 claims were staked in this vicinity in October/02. One group staked by E.D. Priest, et al. (Mineral Hill, Red Fox, etc (2412)) was located 22.4 km above the mouth of Left Clear Creek straddling a main fork (possibly Lewis Gulch). Another group (Uranus, etc (2415)) was located between the Left Fork and 65 Pup. Old hand pits are common in this area.

Staked as Gulch cl (Y82480) in May/74 by Asarco, which conducted mapping and soil sampling; and restaked on the southeast side as Mike cl (YA10868) in Oct/77 by T. Hutton and on the southwest side as Wind cl (YA31854) in Oct/78 by N. Harper, who trenched in 1979 and 1987.

Restaked as part of a large block of CC cl (YA53321) in Sep/80 by Canada Tungsten Mg Corp L, which performed mapping and geochemical sampling in 1981.

Restaked as Sleet cl (YB4262) in Sep/87 by Blackstone Placer Mg L, which optioned them to Secret Pass Mls L later that year. Secret Pass also optioned the Wind & Rain cl and conducted linecutting, soil sampling, trenching and IP and VLF surveys in 1987 and 276 m of diamond drilling in 4 holes in 1989.

N. Harper performed stripping and trenching on the Sleet claims in 1992. In late 1992 Ivanhoe Goldfields optioned all of the Clear Creek claims including the CC, Wind, Sleet and Rain claims.

In 1994, Ivanhoe is acquired by First Dynasty Mines Ltd. In Jun/95 Kennecott Canada Inc optioned the Clear Creek area claims (including the Wind and Sleet claims) and carried out a large exploration program including reverse circulation drilling on the Rhosgobel stock and soil sampling, geological mapping, trenching and road building throughout the claim block. In Nov/95 the Kennecott dropped

its option.

New Millennium, an wholly owned subsidiary of First Dynasty, becomes operator of the Clear Creek project. The company does limited trenching on the Barney Ridge and Saddle zones in 1997.

#### CAPSULE GEOLOGY

Narrow, gold-bearing quartz-arsenopyrite veins and extensive gold geochemical anomalies are associated with parts of a Cretaceous granodiorite stock and its contact with metasedimentary rocks of the Late Proterozoic-Early Cambrian Hyland Group.

In June 1987, placer operations encountered nearly massive pyrite-sericite mineralization on both sides of a steeply dipping east-trending gouge-filled fault in the creek bed. Massive pyrite bands up to 1 m thick contain 50 to 80% pyrite in a quartz gangue and dip 20° north, parallel to bedding in the host sericite-biotite phyllite. Samples contained up to 9.22 g/t Au across 1.0 m. The area of interest coincides with a 500 x 200 m IP anomaly, but VLF response is flat.

All of the 1989 drillholes encountered thick sections of graphitic argillite with pyrite along the schistosity. Drillholes RWS-89-1 and 89-4 intersected the fault zone. Hole 89-1 returned 18.71 g/t Au over 0.49 m of pyrite-sericite-quartz-clay gouge in the fault. No evidence of stratabound mineralization was seen in the drillholes.

Kennecott mapped along Left Clear Creek where it had incomplete information but did no other work.

#### REFERENCES

KENNECOTT CANADA INC, Feb/96. Assessment Report #093372 by S. Coombes.

MURPHY, D.C., HÉON, D., AND HUNT, J., 1993a. Geological overview of Clear Creek map area, western Selwyn Basin (NTS 115P/14). In: Yukon Exploration and Geology 1992, Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada.

MURPHY, D.C., HÉON, D., AND HUNT, J., 1993b. Geological map of Clear Creek map area, western Selwyn Basin (NTS 115P/14). In: Yukon Exploration and Geology 1992, Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open File 1993-1(G), 1:50 000.

SECRET PASS MINERALS CORP., Nov/87. Assessment Report #062292 by D.G. Allen.

SECRET PASS MINERALS CORP., Jul/89. Assessment Report #092752 by J.C. Stephen and S. Feutgen.

YUKON MINING AND EXPLORATION OVERVIEW 1989, p. 8, 10.

YUKON EXPLORATION & GEOLOGY 1995, p. 13-14, 16.

MINFILE NUMBER: 115P 034

NAME (S): BARNEY

STATUS: SHOWING

MINING DISTRICTS: DAWSON

NTS MAP (1:250000): MCQUESTEN

UTM ZONE: 8

NTS MAP (1:50000): 115P14

NORTHING: 7078169

EASTING: 388259

LATITUDE: 63° 49' 47" N

LONGITUDE: 137° 16' 11" W

LOCATION ACCURACY: .5 Kilometres

CLAIMS:

COMMENT:

**MINERALS:**

SIGNIFICANT: CASSITERITE

COMMENTS: Found in stream sediments and cassiterite. Also found in Greissen veins and Breccias.

ASSOCIATED: QUARTZ

MUSCOVITE

SCHEELITE

COMMENT: Quartz-muscovite Greissen veins and Breccias.

ALTERATION:

COMMENT:

ALTERATION TYPE:

**DEPOSIT:**

TYPE: VEIN

AGE OF MINERALIZATION : (Era) : (Period) :

Start :

End :

Isotopic Age :

Material :

**COMMODITY:**

Major:

Minor:

Trace:

TIN

TUNGSTEN

**TECTONIC ELEMENT:** SELWYN BASIN

**METAMORPHISM:**

Type(s):

Grade(s):

REGIONAL

GREENSCHIST

Comment:

**OWNER/OPERATOR:**

<u>YEAR</u>	<u>OWNER/OPERATOR</u>	<u>COMMENT</u>
1979	WELCOME NORTH MINES LIMITED	Staked as Patty & Lake claims.
1980	CANADA TUNGSTEN MINING CORPORATION LIMITED	Restaked as Sluggo claim.
1993	IVANHOE MINES LIMITED	STAKED CC CLAIMS
1994	FIRST DYNASTY MINES LIMITED	ACQUIRES IVANHOE AND CLEAR CREEK PROPERTIES
1995	KENNECOTT CANADA INCORPORATED	OPTIONS CLEAR CREEK PROPERTY. DROPS OPTION IN NOVEMBER OF SAME YEAR.
1996	NEW MILLENNIUM MINING LIMITED	Wholly owned subsidiary of First Dynasty Mines, acquires CC claims.
1996	KLASSEN, J.	Staked Turkey cl 1-24 5 km to the southwest.

**WORK HISTORY:**

YEAR RANGE: 1979 TO 1980

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
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STAKING	0	0	
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COMMENT:

YEAR RANGE: 1981 TO 1981

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
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GEOCHEMICAL SAMPLING	0	0	
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GEOLOGICAL MAPPING	0	0	
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COMMENT:

YEAR RANGE: 1994 TO 1994

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
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STAKING

COMMENT: IVANHOE STAKES THE CC CLAIMS

YEAR RANGE: 1995 TO 1995

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
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ROAD CONSTRUCTION

GEOLOGICAL MAPPING

COMMENT: KENNECOTT WORK INCLUDES SOME LIMITED EXAMINATION OF THE BARNEY

YEAR RANGE: 1997 TO 1997

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
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TRENCHING

COMMENT: THREE TRENCHES EXCAVATED NEAR SMALL CRETACEOUS STOCK

**EXPLORATION RESULTS:**

**Geochemical (Strong):**

Commodity      Sample Type

**Geochemical (Weak):**

Commodity      Sample Type

**Geophysical:**

**Visual:**

**RESERVES:**

**HOST ROCK:**

DOMINANT HOST ROCK: METASEDIMENTARY

AGE (Era)      (Period)

HOST ROCK GROUP: HYLAND

Start: PROTEROZOIC

FORMATION:

End: PALEOZOIC

CAMBRIAN

INFORMAL ROCK UNIT:

DATING METHOD:

ISOTOPIC AGE:

MATERIAL DATED:

LITHOLOGIES: SCHIST  
 PHYLLITE  
 QUARTZITE

COMMENT:

**CAPSULE WORK HISTORY**

Staked as Patty and Cake cl (YA32227) in Apr/79 by Welcome North ML. Restaked as Sluggo cl (YA53782) in Sep/80 by Canada Tungsten Mg Corp L, which performed mapping and geochem sampling in 1981. The adjacent CC 1-96 cl (YB45087) were staked by Ivanhoe Goldfields in Jul/93.

In Feb/94, First Dynasty Mines Ltd acquired Ivanhoe Goldfields and the Clear Creek property. In Jun/95 Kennecott Canada Inc optioned the Clear Creek area claims (including the CC claims) and carried out a large exploration program including a reverse circulation drilling program on the Rhosgobel stock and soil sampling, geological mapping, trenching and road building throughout the claim block. In Nov/95 the Kennecott dropped its option. New Millennium Mining Ltd, an wholly owned subsidiary of First Dynasty, became operator in 1996.

J. Klassen staked Turkey cl 1-24 (YB94782) 5 km to the southwest in Oct/96.

New Millennium carried out a limited trenching program on the Barney Ridge (three trenches) and Saddle zones (one trench) in the fall of 1997. Five 1000 meter soil lines were also completed near the northeastern boundary of the property.

#### CAPSULE GEOLOGY

The original claims straddle Clear Creek upstream from Barney Gulch, where a concentration of scheelite and cassiterite was encountered by a placer dredge in 1944. Iron-stained quartz-muscovite greisen veins and breccias containing minor cassiterite cut schist and phyllite of the Late Proterozoic-Early Cambrian Hyland Group.

Ivanhoe staked the Mid-Cretaceous Barney stock, which intrudes metasedimentary rocks of the Late Proterozoic-Early Cambrian Hyland Group. Ivanhoe theorized that the stock hosted narrow, gold-bearing quartz-arsenopyrite veins like those found at other nearby intrusions. Contour soil sampling carried out over the stock returned low Au values thus suggesting low potential for auriferous sheeted vein mineralization. Mapping and trenching on Barney ridge outlined two localities of quartz-eye porphyritic granitic dykes intruding inter-bedded muscovite phyllite and micaceous quartzite. The dykes range from 2 to 20 m in width and appear to occupy shear zones paralleling and crosscutting foliation. Samples collected from the dykes and related sheared wall rocks returned low Au values.

#### REFERENCES

EMOND, D.S., 1985. Tin and tungsten veins and skarns in the McQuesten River area. In: 1985 Exploration in Yukon Overview, Appendix C (Open File), Exploration and Geological Services Division, DIAND.

GEOLOGICAL SURVEY OF CANADA. Tungsten Deposits of Canada. Economic Geology Series No. 17, p. 19.

KENNECOTT CANADA INC, Feb/96. Assessment Report #093372 by S. Coombes.

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MURPHY, D.C., HÉON, D., AND HUNT, J., 1993b. Geological map of Clear Creek map area, western Selwyn Basin (NTS 115P/14). In: Yukon Exploration and Geology 1992, Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open File 1993-1(G), 1:50 000.

YUKON EXPLORATION AND GEOLOGY 1981, p. 228.

YUKON EXPLORATION & GEOLOGY 1995, p. 13-14, 16.

YUKON MINFILE  
 MASTER REPORT  
 YUKON GEOLOGY PROGRAM  
 WHITEHORSE

MINFILE NUMBER: 115P 035

NAME (S): CLEMENT

STATUS: UNKNOWN

MINING DISTRICTS: DAWSON

NTS MAP (1:250000): MCQUESTEN

UTM ZONE:

8

NTS MAP (1:50000): 115P14

NORTHING:

7075078

LATITUDE: 63° 47' 12" N

EASTING:

392492

LONGITUDE: 137° 10' 54" W

LOCATION ACCURACY: 1 Kilometres

CLAIMS: BERNIE

START:

END:

HAIL

START: 1

END: 26

COMMENT:

**MINERALS:**

SIGNIFICANT:

COMMENTS:

ASSOCIATED:

COMMENT:

ALTERATION:

COMMENT:

ALTERATION TYPE:

**DEPOSIT:**

TYPE: UNKNOWN

AGE OF MINERALIZATION : (Era) :

(Period) :

Start :

End :

Isotopic Age :

Material :

**COMMODITY:**

Major:

Minor:

Trace:

TECTONIC ELEMENT: SELWYN BASIN

**METAMORPHISM:**

Type(s):

Grade(s):

REGIONAL

GREENSCHIST

Comment:

**OWNER/OPERATOR:**

YEAR OWNER/OPERATOR

COMMENT

1979 CLEMENT, B.

Staked as Bernie claim.

1981 RITTER, B.

Added Mary claim to west.

1994 TRUDEAU, D.

Staked Hail claims 2 km to NE.

**WORK HISTORY:**

YEAR RANGE: 1979

TO 1979

WORK TYPE

#DRILL HOLES

AMOUNT

UNIT

STAKING

0

0

COMMENT:

YEAR RANGE: 1980 TO 1980

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
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HAND TRENCHING	0	0	
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COMMENT:

YEAR RANGE: 1981 TO 1981

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
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STAKING	0	0	
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COMMENT: Staked adjacent ground.

**EXPLORATION RESULTS:**

**Geochemical (Strong):**

Commodity	Sample Type
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**Geochemical (Weak):**

Commodity	Sample Type
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Geophysical:

Visual:

**RESERVES:**

**HOST ROCK:**

DOMINANT HOST ROCK: METASEDIMENTARY

HOST ROCK GROUP: UNSPECIFIED

FORMATION:

AGE (Era)

Start: PROTEROZOIC

End: PROTEROZOIC

(Period)

LATE

LATE

DATING METHOD:

ISOTOPIC AGE:

MATERIAL DATED:

INFORMAL ROCK UNIT:

LITHOLOGIES: MICACEOUS QUARTZITE

MICACEOUS SCHIST

COMMENT:

**CAPSULE WORK HISTORY**

Staked as Bernie cl (YA4714) in Aug/79 by B. Clement, who hand trenched in 1980. B. Ritter added Mary cl (YA55683) to the west in Jul/81. D. Trudeau staked Hall cl 1-26 (YB52339) 2 km northeast of the occurrence in July/94.

**CAPSULE GEOLOGY**

The claims, which are underlain by post-glacial stream deposits and micaceous quartzite and schist of the Late Proterozoic-Early Cambrian Hyland Group, follow Clear Creek and may have been staked to protect surface and subsurface rights in conjunction with placer mining.

**REFERENCES**

MURPHY, D.C., HÉON, D., AND HUNT, J., 1993a. Geological overview of Clear Creek map area, western Selwyn Basin (NTS 115P/14). In: Yukon Exploration and Geology 1992, Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada.

MURPHY, D.C., HÉON, D., AND HUNT, J., 1993b. Geological map of Clear Creek map area, western Selwyn Basin (NTS 115P/14). In: Yukon Exploration and Geology 1992, Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open File 1993-1(G), 1:50 000.

MINFILE NUMBER: 115P 045

NAME (S): OMEGA

STATUS: DEPOSIT

MINING DISTRICTS: DAWSON

NTS MAP (1:250000): MCQUESTEN

UTM ZONE:

8

NTS MAP (1:50000): 115P14

NORTHING:

7097259

LATITUDE: 63° 59' 9" N

EASTING:

393333

LONGITUDE: 137° 10' 48" W

LOCATION ACCURACY: 1 Kilometres

CLAIMS: OMEGA

START:

END:

HOPE

START: 9

END: 10

COMMENT:

**MINERALS:**

SIGNIFICANT: BARITE

WITHERITE

COMMENTS: Two bedded barite occurrences.

ASSOCIATED:

COMMENT:

ALTERATION:

COMMENT:

ALTERATION TYPE:

**DEPOSIT:**

TYPE: STRATIFORM

AGE OF MINERALIZATION :

(Era) :

(Period) :

Start : PALEOZOIC

DEVONIAN

End : PALEOZOIC

MISSISSIPPIAN

Isotopic Age :

Material :

**COMMODITY:**

Major:

Minor:

Trace:

BARITE

SILVER

ZINC

TECTONIC ELEMENT: SELWYN BASIN

**METAMORPHISM:**

Type(s):

Grade(s):

REGIONAL

GREENSCHIST

Comment:

**OWNER/OPERATOR:**

YEAR OWNER/OPERATOR

COMMENT

1982 MATTAGAMI LAKE MINES LIMITED

Staked as Omega claims.

1983 NORANDA MINES LIMITED

Claims transferred to Noranda.

1984 TECHNIFLUIDS LIMITED

Joint venture with Noranda.

1994 BERDAHL, R.

Restaked occurrence with Hope claims.

**WORK HISTORY:**

YEAR RANGE: 1982

TO 1982

WORK TYPE

#DRILL HOLES

AMOUNT

UNIT

STAKING 0 0

COMMENT:

YEAR RANGE: 1983 TO 1983

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
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GEOPHYSICAL SURVEY	0	0	
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GEOCHEMICAL SAMPLING	0	0	
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GEOLOGICAL MAPPING	0	0	
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COMMENT: VLF-EM survey

YEAR RANGE: 1985 TO 1985

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
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DIAMOND DRILLING	7	333	METRES
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GEOCHEMICAL SAMPLING	0	0	
----------------------	---	---	--

GEOPHYSICAL SURVEY	0	0	
--------------------	---	---	--

BULLDOZER TRENCHING	0	0	
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STAKING	0	0	
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COMMENT: Gravity survey.

YEAR RANGE: 1994 TO 1994

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
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PROSPECTING

COMMENT:

**EXPLORATION RESULTS:**

**Geochemical (Strong):**

Commodity Sample Type

**Geochemical (Weak):**

Commodity Sample Type

**Geophysical:**

**Visual:**

**RESERVES:**

ORE ZONE: OMEGA

RESERVE TYPE: OTHER

AMOUNT: 30000 tonnes Initial?: Yes

RESERVE LOCATION:

RESERVE CERTAINTY:

COMMENT: Based on exploration drilling carried out in 1985. Based on estimates using a 50 m strike length, 25 m depth and 4.0 tonnes/m3. Potential for up to 2 000 000 tonnes.

REFERENCES: Yukon Exploration 1985-1986, p. 380-381.

COMMODITY

BARITE

GRADE

88 PERCENT

**HOST ROCK:**

DOMINANT HOST ROCK: METASEDIMENTARY

AGE (Era)

(Period)

HOST ROCK GROUP: EARN

Start: PALEOZOIC

DEVONIAN

FORMATION:

End: PALEOZOIC

MISSISSIPPIAN

INFORMAL ROCK UNIT:

DATING METHOD:

ISOTOPIC AGE:

MATERIAL DATED:

LITHOLOGIES: QUARTZITE  
 SLATE

SANDSTONE  
SHALE  
CONGLOMERATE  
ARGILLITE

## COMMENT:

## CAPSULE WORK HISTORY

Staked as Omega cl (YA65102) in Jul/82 by Mattagami Lake Minin Ltd and transferred to Noranda Exploration Company Ltd, which performed mapping and geochem and VLF EM surveys in 1983. In 1985, Technifluids Ltd added more claims and performed gravity and geochem sampling, bulldozer trenching, drilled 7 holes (333 m) and studied the feasibility of barite production in a joint venture.

Restaked as Hope (9-10) (YB48357) in April/94 by R. Berdahl, who carried out a prospecting program later in the year.

## CAPSULE GEOLOGY

Two bedded barite occurrences have been located in a sequence of quartzite, slate, sandstone, shale and conglomerate of the Devonian-Mississippian Earn Group. Small Cretaceous syenite plutons outcrop 1.5 km to the southwest and 2 to 4 km to the northeast.

The main occurrence was tested with 6 drill holes and consists of a finely laminated barite bed containing minor argillite interbeds. It is overlain by black graphitic argillite and underlain by a thin bedded mixture of barite, limestone and witherite. The bed ranges in true thickness from 4.9 to 38 m and is faulted off along strike and at depth. Drilling has outlined reserves of 30 000 tonnes. Because of the argillite interbeds, grade is variable (up to 88%) and some upgrading may be required before shipping.

The second occurrence lies 3 km downstream and was tested by one drill hole. The barite bed is marked by a 200 m long barite-silver-zinc soil anomaly and is 10.4 m wide where penetrated by the drill hole. Unfortunately, the upper 6.7 m of the barite layer is contaminated with carbonate.

Berdahl sampled numerous sulphurous smelling barite/shale/chert showings near the main showing. None of the samples returned anomalous values for gold or sulphides.

## REFERENCES

BERDAHL, R.S. AND KNUTSON, M., Sep/95. Assessment Report #093471.

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MURPHY, D.C., HÉON, D., AND HUNT, J., 1993b. Geological map of Clear Creek map area, western Selwyn Basin (NTS 115P/14). In: Yukon Exploration and Geology 1992, Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open File 1993-1(G), 1:50 000. Preliminary Copy

MURPHY, D.C., HÉON, D., AND HUNT, J., 1996. Geological map of Clear Creek map area, western Selwyn Basin (NTS 115P/14) Yukon. Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Geoscience Map 1996-1, 1:50 000 scale.

MURPHY, D.C., 1997. Geology of the McQuesten River Region, Northern McQuesten and Mayo Map Areas, Yukon Territory (115P/14, 15, 16; 105m/13, 14) Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Bulletin 6.

NORANDA EXPLORATION COMPANY LTD. AND MATTAGAMI EXPLORATION LTD, Feb/84. Assessment Report #091507 by J. Biczok.

NORANDA EXPLORATION COMPANY LTD, May/85. Assessment Report #091630 by W. Reid.

NOREX-TECHNIFLUIDS JOINT VENTURE, Mar/86. Assessment Report #091795 by W. Reid.

YUKON EXPLORATION AND GEOLOGY 1983, p. 270.

YUKON EXPLORATION 1985-86, p. 380-381

MINFILE NUMBER: 115P 047

NAME (S): ZETA

STATUS: DEPOSIT

MINING DISTRICTS: DAWSON

NTS MAP (1:250000): MCQUESTEN

UTM ZONE: 8

NTS MAP (1:50000): 115P14

NORTHING: 7097884

EASTING: 387873

LATITUDE: 63° 59' 23' N

LONGITUDE: 137° 17' 31' W

LOCATION ACCURACY: 1 Kilometres

CLAIMS: ZETA

START: END:

HOPE

START: 1 END: 4

HOPE

START: 11 END:

HOPE

START: 5 END: 8

COMMENT:

**MINERALS:**

SIGNIFICANT: JAMESONITE  
BOULANGERITE

COMMENTS: Argentiferous galena and other minerals in three tourmaline-quartz greisen veins up to 3 meters wide in alteration envelopes, veins cut pluton and hornfelsed country rock.

ASSOCIATED: TOURMALINE  
QUARTZ  
PYRITE  
CASSITERITE  
BARITE  
STANNITE

COMMENT: Tourmaline-quartz greisen veins with variable mineralogy. Bedded barite outcrops on north side of property.

ALTERATION: KAOLINITE  
LIMONITE  
TALC  
COVELLITE

COMMENT: 10-30 m wide alteration envelopes cutting across intrusive - hornfels contact. 30-40 m thick zone of surface leaching.

ALTERATION TYPE: SERICITIC  
CLAY  
OXIDATION

**DEPOSIT:**

TYPE: VEIN

AGE OF MINERALIZATION :	(Era) :	(Period) :
Start :	MESOZOIC	CRETACEOUS
End :	MESOZOIC	CRETACEOUS

Isotopic Age : Material :

**COMMODITY:**

Major:	Minor:	Trace:
LEAD	COPPER	
SILVER	TIN	
	ZINC	
	BARITE	

**TECTONIC ELEMENT:** TOMBSTONE PLUTONIC SUITE

**METAMORPHISM:**

Type(s):	Grade(s):
REGIONAL	GREENSCHIST HORNFELS

Comment: Sedimentary rocks are hornfelsed and pyritic up to 100 m away from intrusive contact.

**OWNER/OPERATOR:**

<u>YEAR</u>	<u>OWNER/OPERATOR</u>	<u>COMMENT</u>
1984	NORANDA MINES LIMITED	Staked as Zetz claims.
1988	DANRA RESOURCES LIMITED	Optioned property from Noranda Mines Ltd
1994	BERDAHL, R.	Restaked with Hope claims.
1997	NICHOLSON, G.	Staked Screamer cl 1-4, 19-24, and 62-70, 4 km to the southwest.
1997	INTERNATIONAL KODIAK RESOURCES INCORPORATED	Staked Bald cl 1-16, 6.5 km to the west.

**WORK HISTORY:**

YEAR RANGE: 1983 TO 1983

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
STAKING	0	0	

COMMENT: Staked following-up stream geochemical results.

YEAR RANGE: 1984 TO 1984

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
DIAMOND DRILLING	10	883	METRES
GEOCHEMICAL SAMPLING	0	0	
GEOPHYSICAL SURVEY	0	0	
GEOLOGICAL MAPPING	0	0	
TRENCHING	0	0	

COMMENT: Magnetic survey, VLF-EM survey.

YEAR RANGE: 1988 TO 1988

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
DIAMOND DRILLING	4	608.7	METRES

COMMENT:

YEAR RANGE: 1994 TO 1994

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
PROSPECTING			

COMMENT:

**EXPLORATION RESULTS:**

**Geochemical (Strong):**

Commodity	Sample Type
COPPER	SOIL SAMPLE
ZINC	SOIL SAMPLE
SILVER	SOIL SAMPLE

**Geochemical (Weak):**

Commodity	Sample Type
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**Geophysical:**

GRAVITY

**Visual:**

**RESERVES:**

ORE ZONE: ZETA

RESERVE TYPE: UNSPECIFIED                      AMOUNT:                      98248 tonnes    Initial ?    No

RESERVE LOCATION: UNSPECIFIED

RESERVE CERTAINTY: UNSPECIFIED

COMMENT: Drill indicated reserves.

REFERENCES: Yukon Exploration 1988, p.220.

<u>COMMODITY</u>	<u>GRADE</u>
SILVER	557.8 GM/TONNE

**HOST ROCK:**

DOMINANT HOST ROCK: METASEDIMENTARY	AGE (Era)	(Period)
HOST ROCK GROUP: EARN	Start: PALEOZOIC	DEVONIAN
FORMATION:	End: PALEOZOIC	MISSISSIPPIAN

INFORMAL ROCK UNIT:	DATING METHOD:
	ISOTOPIC AGE:
	MATERIAL DATED:

LITHOLOGIES: SHALE  
 CHERT  
 CONGLOMERATE  
 BARITE  
 SANDSTONE

COMMENT:

DOMINANT HOST ROCK: PLUTONIC	AGE (Era)	(Period)
HOST ROCK GROUP:	Start: MESOZOIC	CRETACEOUS
FORMATION:	End: MESOZOIC	CRETACEOUS

INFORMAL ROCK UNIT: SYENITE RANGE STOCK	DATING METHOD:
	ISOTOPIC AGE:
	MATERIAL DATED:

LITHOLOGIES: QUARTZ SYENITE  
 HORNBLende SYENITE  
 BIOTITE SYENITE  
 ORBICULAR GRANITE  
 QUARTZ MONZONITE

COMMENT:

**CAPSULE WORK HISTORY**

Staked as Zeta cl (YA79015) in Jun/83 by Noranda Exploration Company Ltd, which explored with trenching, mapping, mag, VLF EM and geochem surveys and 10 holes (883 m) in 1984. Noranda optioned the property in Apr/88 to Danra Resources Ltd, which drilled 4 holes (138m) later that year.

Restaked as Hope cl (1-4) (YB48348) by R. Berdahl in April/94. Berdahl also staked Hope cl (11) (YB48358) 1 km to the west and Hope cl (5-7) (YB48352) 2 km to the southeast.

In Apr/97 International Kodiak Resources Inc staked Bald cl 1-16 (YC 04287) 6.5 km to the west. Between Jun and Nov/97 G. Nickolson staked Screamer cl 1-4 (YC03395), 19-24 (YC03537) and 62-70 (YC04398) 4 km to the southwest.

**CAPSULE GEOLOGY**

The claims were staked on argentiferous galena veins at the contact between shale, sandstone and conglomerate of the Devonian-Mississippian Earn Group and the Syenite Range Stock, a zoned mid-Cretaceous felsic intrusion. The core of the intrusion consists of tourmaline orbicular granite, and is surrounded by concentric zones of quartz monzonite and syenite. Sedimentary rocks are hornfelsed and pyritic up to 100 m away from the intrusive contact.

The main zone, which strikes 065° and dips steeply south, cuts across the intrusive hornfels contact. It consists of three parallel tourmaline-muscovite quartz greisen veins, up to 3 m wide, enclosed by 10 to 30 m wide alteration envelopes of kaolinite, hematite, limonite and talc. This zone has been traced 500 m into the pluton and is mineralized with varying amounts of pyrite, arsenopyrite, cassiterite, sphalerite, jamesonite, covellite, chalcocite and stannite.

The 1984 drilling tested the main zone for 150 m along strike and 100 m downdip. The best assays were 751.5 g/t Ag over 4.3 m and 528.3 g/t Ag over 3.2 m. Grades appear to improve beneath a 30 to 40 m thick zone of surface leaching. Geological reserves in this zone are estimated at 98 000 tonnes grading 557.8 g/t Ag (Yukon Exploration 1988). Noranda estimated an average tin content of 0.1% with local concentrations up to 0.6%.

A second zone nearby lies completely within the hornfels. It strikes 090° and has been traced for at least 400m. Mineralization in this zone is much more erratic. Other veins have been located about 2 km to the west. Two outcrops of white interlaminated barite and chert were located on the north side of the property. The barite coincides with a strong linear Cu, Zn and Ag soil anomaly that is 500 m long.

Berdahl concentrated his efforts towards extending the strike length of the known mineralization. Prospecting outlined several areas of interest which require follow up work. Panning carried out on creeks draining the Syenite Range failed to return significant gold values.

#### REFERENCES

- ABERCROMBIE, S.M., 1990. Petrology, geochronometry, and economic geology: The Zeta tin-silver prospect, Arsenic Ridge, west-central Yukon (115P/14 and 116A/3). M.Sc. Thesis, University of British Columbia, Vancouver, B.C.
- BERDAHL, R.S. AND KNUTSON, M., Oct/95. Assessment Report #093471 by R. Berdahl.
- DANRA RESOURCES LTD, Mar/87. Assessment Report #062287 by W.A. Hogg.
- DANRA RESOURCES LTD, Nov/88. Assessment Report #092675 by E.A. Gallo.
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- GEORGE CROSS NEWSLETTER, 24 Aug/88.
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- NORANDA EXPLORATION COMPANY LTD, Dec/84. Assessment Report #091590 by B. Jago.
- NORANDA EXPLORATION COMPANY LTD, Feb/86. Assessment Report #091782 by S.M. Abercrombie.
- NORTHERN MINER, 25 Apr/88.
- YUKON EXPLORATION 1984, p. 220-221, 1988, p. 220.
- YUKON EXPLORATION AND GEOLOGY 1984, p. 220-221.
- YUKON MINING AND EXPLORATION OVERVIEW 1988, p. 39-40.

MINFILE NUMBER: 115P 055

NAME (S): BARNEY  
 LEFT

STATUS: ANOMALY

MINING DISTRICTS: DAWSON

NTS MAP (1:250000): MCQUESTEN

UTM ZONE: 8

NTS MAP (1:50000): 115P\14

NORTHING: 7081309

LATITUDE: 63° 50' 32' N

EASTING: 391461

LONGITUDE: 137° 12' 25' W

LOCATION ACCURACY: 1 Kilometres

CLAIMS: CC

START: END:

LL

START: 1 END: 120

COMMENT:

**MINERALS:**

SIGNIFICANT:

COMMENTS:

ASSOCIATED:

COMMENT:

ALTERATION:

COMMENT:

ALTERATION TYPE: SERPENTINE

**DEPOSIT:**

TYPE: UNKNOWN

AGE OF MINERALIZATION : (Era) : (Period) :

Start :

End :

Isotopic Age :

Material :

**COMMODITY:**

Major:

Minor:

Trace:

ANTIMONY

ARSENIC

GOLD

TECTONIC ELEMENT: SELWYN BASIN

**METAMORPHISM:**

Type(s):

Grade(s):

REGIONAL

GREENSCHIST

Comment:

**OWNER/OPERATOR:**

YEAR OWNER/OPERATOR

COMMENT

1987 HERBERTZ, H.

Staked BHW claims.

1993 IVANHOE MINES LIMITED

Restaked occurrence with CC claims.

1994 WONDGA, R.

Staked LL claims to the north.

1994 FIRST DYNASTY MINES LIMITED

FIRST DYNASTY MINES LTD TAKEOVER OF IVANHOE  
 GOLDFIELDS

1996 NEW MILLENNIUM MINING LIMITED

WHOLLY OWNED SUBSIDIARY OF FIRST DYNASTY  
 BECOMES OPERATOR.

**WORK HISTORY:**

YEAR RANGE: 1987 TO 1987

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
STAKING	0	0	

COMMENT:

YEAR RANGE: 1994 TO 1994

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
SOIL SAMPLING	0	0	

COMMENT: Ivanhoe carried out reconnaissance scale program, no economic results.

YEAR RANGE: 1995 TO 1995

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
ROAD CONSTRUCTION			

COMMENT: KENNECOTT WORK

YEAR RANGE: 1997 TO 1997

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
TRENCHING			

COMMENT: THREE TRENCHES EXCAVATED ON CC CLAIMS

**EXPLORATION RESULTS:**

<u>Geochemical (Strong):</u>		<u>Geochemical (Weak):</u>	
<u>Commodity</u>	<u>Sample Type</u>	<u>Commodity</u>	<u>Sample Type</u>

Geophysical: Visual:

**RESERVES:**

**HOST ROCK:**

DOMINANT HOST ROCK: METASEDIMENTARY	AGE (Era)	(Period)
HOST ROCK GROUP: HYLAND	Start: PROTEROZOIC	
FORMATION: YUSEZYU	End: PALEOZOIC	CAMBRIAN
INFORMAL ROCK UNIT: YUSEZYU	DATING METHOD:	
	ISOTOPIC AGE:	
	MATERIAL DATED:	
LITHOLOGIES: QUARTZITE		
MUSCOVITE-CHLORITE SCHIST		

COMMENT:

DOMINANT HOST ROCK: PLUTONIC	AGE (Era)	(Period)
HOST ROCK GROUP:	Start: MESOZOIC	CRETACEOUS
FORMATION:	End: MESOZOIC	CRETACEOUS
INFORMAL ROCK UNIT: TOMBSTONE STOCK	DATING METHOD:	
	ISOTOPIC AGE:	
	MATERIAL DATED:	

LITHOLOGIES: GRANODIORITE  
 COMMENT:

**CAPSULE WORK HISTORY**

Staked as BHW cl (YA89857) in Aug/87 by H. Herberitz. In late 1992 Ivanhoe Goldfields Ltd optioned all of the surrounding Clear Creek claims from their various owners. Ivanhoe restaked the occurrence as the CC 1-96 cl (YB45087) in Jul/93 and added CC cl 97-131 (YB477963) in November/93. In 1994 First Dynasty Mines Ltd does takeover of Ivanhoe and becomes owner. In 1994 First Dynasty carried out reconnaissance soil sampling on CC cl 97-131.

In Jun/95 Kennecott Canada Inc optioned the Clear Creek area claims (including the CC claims) and carried out a large exploration program including reverse circulation drilling on the Rhosgobel stock, and soil sampling, geological mapping, trenching and road building throughout the claim block. In Nov/95 Kennecott dropped its option. New Millennium Mines Ltd, an wholly owned subsidiary of First Dynasty, becomes operator of the Clear Creek property. New Millennium has trenching and limited soil sampling completed on the Barney and Saddle zones in 1997.

Between February and Mar/94 R. Wondga staked LL cl 1-120 (YB48063) to the north and shortly after, optioned them to Montoro Resources Inc. In the summer of 1994 the company carried out geological mapping and grid soil sampling. In May/95 Wondga transferred LL cl 1-78 (YB48063) to Montoro Resources Inc.

#### CAPSULE GEOLOGY

The area is underlain by quartzite and schist of the Upper Proterozoic - Lower Cambrian Hyland Group (Tombstone Thrust deformed Yusezyu Formation) and Upper Cretaceous granodiorite stocks. Specimens of greisenized and brecciated quartzite taken by Emond and Lynch (1992) contained anomalous levels of Au, As and Sb.

A total of 16 soil samples were collected by First Dynasty in 1994. The samples generally returned low values, possibly due to the presence of deep overburden. Kennecott limited its work to mapping the bed of Left Clear Creek.

Montoro Resources centered their soil sample grid overtop a breccia zone mapped by Murphy, Heon and Hunt (1992) in 1992. The soil survey revealed several spot Au anomalies (highest = 257 ppb) but no significant anomalies.

#### REFERENCES

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MONTORO RESOURCES INC., Mar/96. Assessment Report #093443 by B. Lueck and DW Philip.

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YUKON EXPLORATION & GEOLOGY 1995, p. 13-14, 16.

YUKON MINFILE  
MASTER REPORT  
YUKON GEOLOGY PROGRAM  
WHITEHORSE

MINFILE NUMBER: 115P 060

NAME (S): LOST HORSES

STATUS: UNKNOWN

NTS MAP (1:250000): MCQUESTEN

NTS MAP (1:50000): 115P114

LATITUDE: 63° 49' 2" N

LONGITUDE: 137° 23' 13" W

LOCATION ACCURACY: .5 Kilometres

CLAIMS: LOST HORSES

HP

MINING DISTRICTS: DAWSON

UTM ZONE:

8

NORTHING:

7078843

EASTING:

382508

START: 1

END: 20

START: 1

END: 30

COMMENT:

MINERALS:

SIGNIFICANT:

COMMENTS:

ASSOCIATED:

COMMENT:

ALTERATION:

COMMENT:

ALTERATION TYPE:

DEPOSIT:

TYPE: UNKNOWN

AGE OF MINERALIZATION : (Era) :

(Period) :

Start :

End :

Isotopic Age :

Material :

COMMODITY:

Major:

Minor:

Trace:

TECTONIC ELEMENT: SELWYN BASIN

METAMORPHISM:

Type(s):

Grade(s):

Comment:

OWNER/OPERATOR:

YEAR OWNER/OPERATOR

COMMENT

1989 6176 YUKON LIMITED

Staked as lost horses claims.

1994 HART, L.

Staked HP claims 3 km to NW.

WORK HISTORY:

YEAR RANGE: 1989

TO 1989

WORK TYPE

#DRILL HOLES

AMOUNT

UNIT

STAKING

0

0

COMMENT:

EXPLORATION RESULTS:

**Geochemical (Strong):**

Commodity            Sample Type

**Geochemical (Weak):**

Commodity            Sample Type

**Geophysical:**

**Visual:**

**RESERVES:**

**HOST ROCK:**

DOMINANT HOST ROCK: METASEDIMENTARY

HOST ROCK GROUP: UNSPECIFIED

FORMATION:

AGE (Era)

Start: PROTEROZOIC

End: PALEOZOIC

(Period)

LATE

CAMBRIAN

DATING METHOD:

ISOTOPIC AGE:

MATERIAL DATED:

INFORMAL ROCK UNIT:

LITHOLOGIES: SCHIST  
 QUARTZITE  
 LIMESTONE

COMMENT: Upper Proterozoic (?) - Lower Cambrian Yusezyu Formation.

**CAPSULE WORK HISTORY**

Staked as Lost Horses of 1-20 (YB23480) in Jun/89 by 6176 Yukon Ltd. In Dec/94 L. Hart staked the HP of 1-30 (YB53028) 3 km northwest of the occurrence.

**CAPSULE GEOLOGY**

The claims are underlain by schist, quartzite and limestone of the Yusezyu Formation, part of the Late Proterozoic-Early Cambrian Hyland Group, some 3 km north of the Two Sisters Batholith, a granite intrusion of mid-Cretaceous age. No work appears to have ever been recorded on the claims.

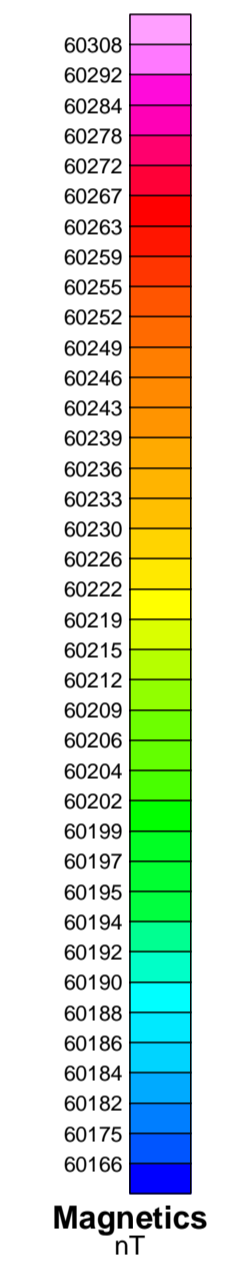
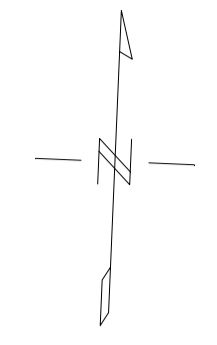
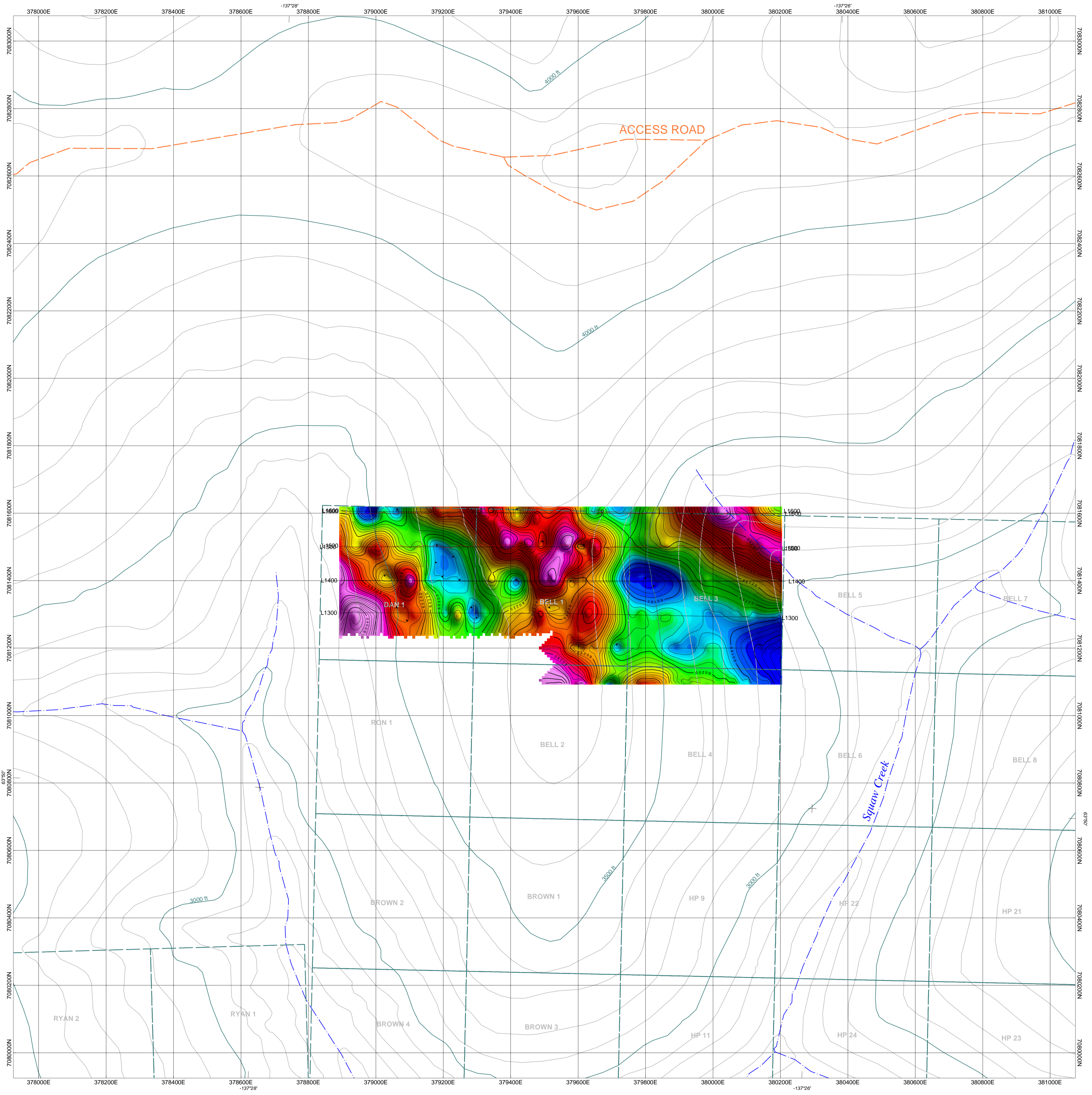
**REFERENCES**

MURPHY, D.C., HÉON, D., AND HUNT, J., 1993a. Geological overview of Clear Creek map area, western Selwyn Basin (NTS 115P/14). In: Yukon Exploration and Geology 1992, Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada.

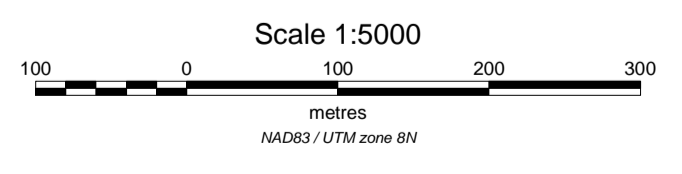
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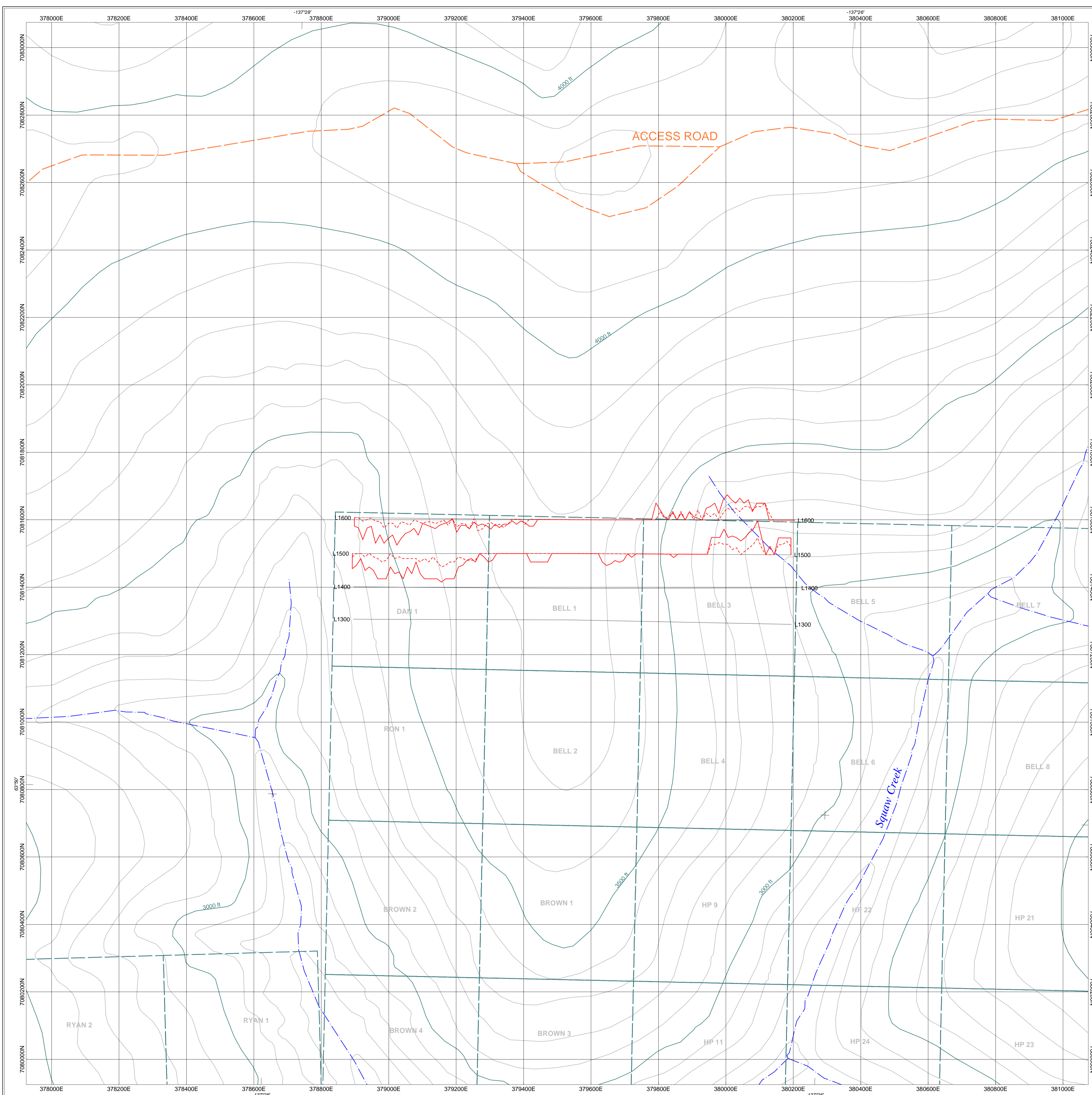
MURPHY, D.C., HÉON, D., AND HUNT, J., 1996. Geological map of Clear Creek area, western Selwyn Basin, Yukon. Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Geoscience Map 1996-1, 1:50 000-scale.

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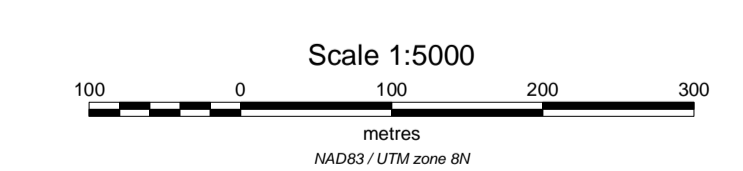
Magnetics  
nT  
Contour Interval = 5 nT



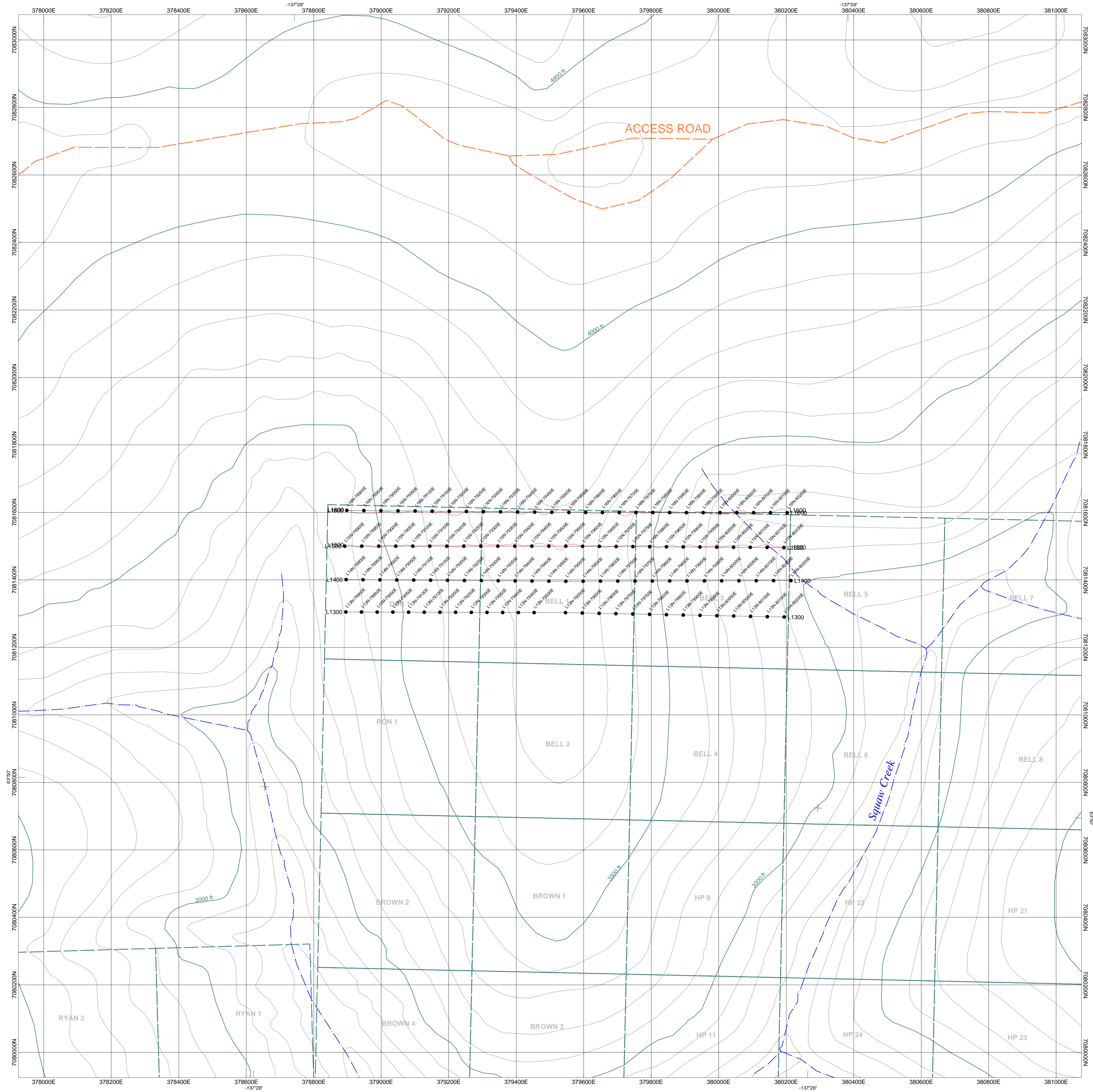


**LEGEND**  
**FRASER FILTERED VLF**  
 FREQUENCY : 24.0 KHz Cutler, Maine, USA  
 INSTRUMENT : Geonics EM-16  
 PROFILE SCALE : 1 cm = 10%  
 IN PHASE : ————  
 QUADRATURE : - - - - -  
 EAST or NORTH : +10  
 DATUM : ————  
 WEST or SOUTH : -10

IN-PHASE DATUM : 0%  
 DATA FILE : HALCYON VLF.gdb  
 OPERATORS : AL  
 STATION SEPARATION : 12.5m  
 LINE-KM SURVEYED THIS SHEET : 2.6 km

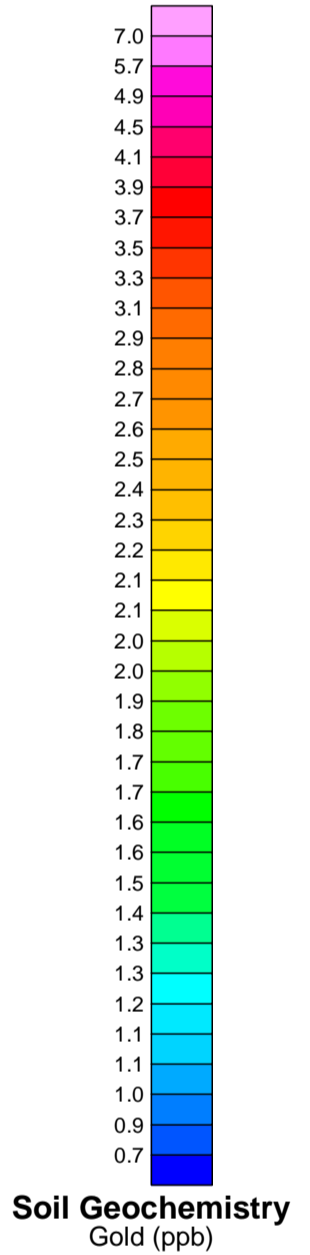
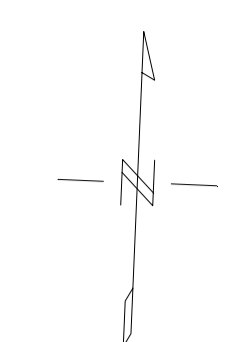
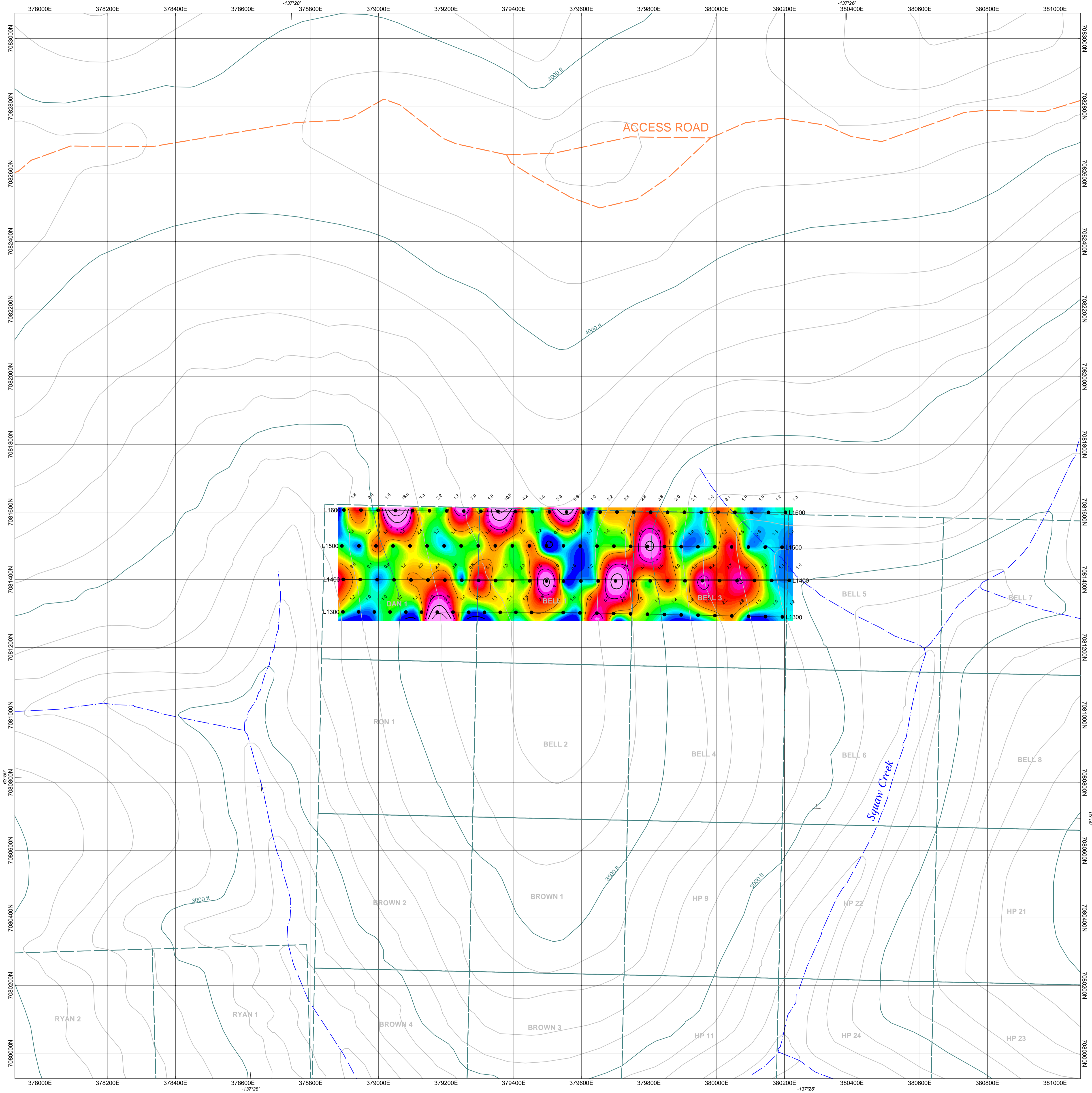


**KINGFISHER SYNDICATE**  
**HALCYON PROJECT**  
**VLF-EM MAP**  
**Transmitter = Cutler, Maine (24.00 KHz)**  
 Dawson Mining District NTS 115P/14  
 Figure 5 September 30, 2004  
**AURORA GEOSCIENCES LTD**

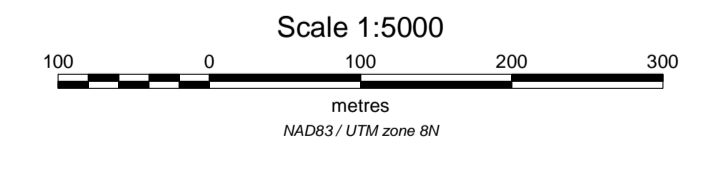


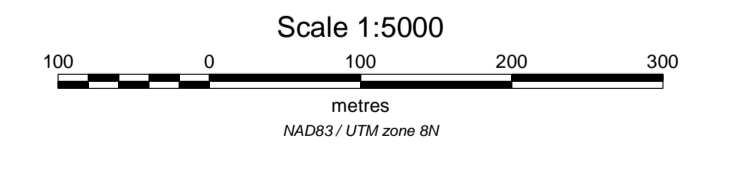
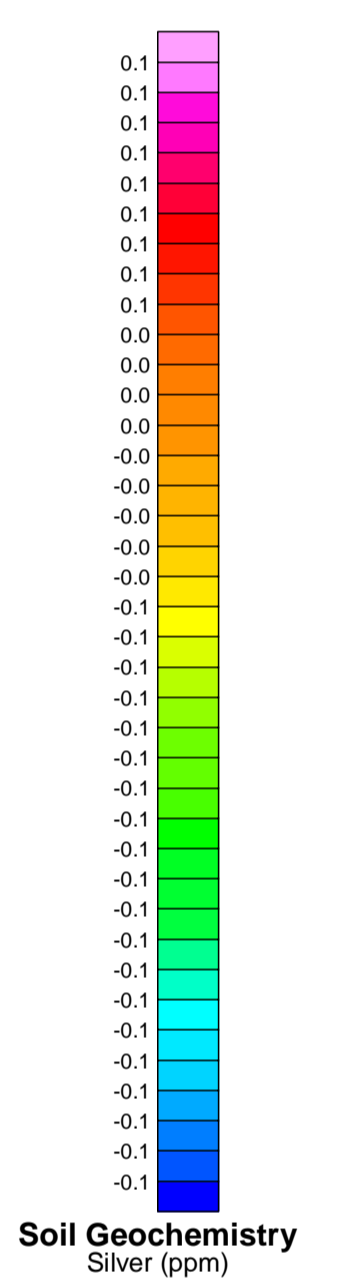
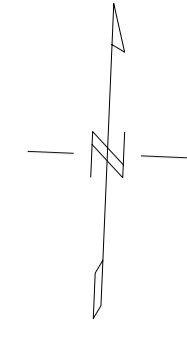
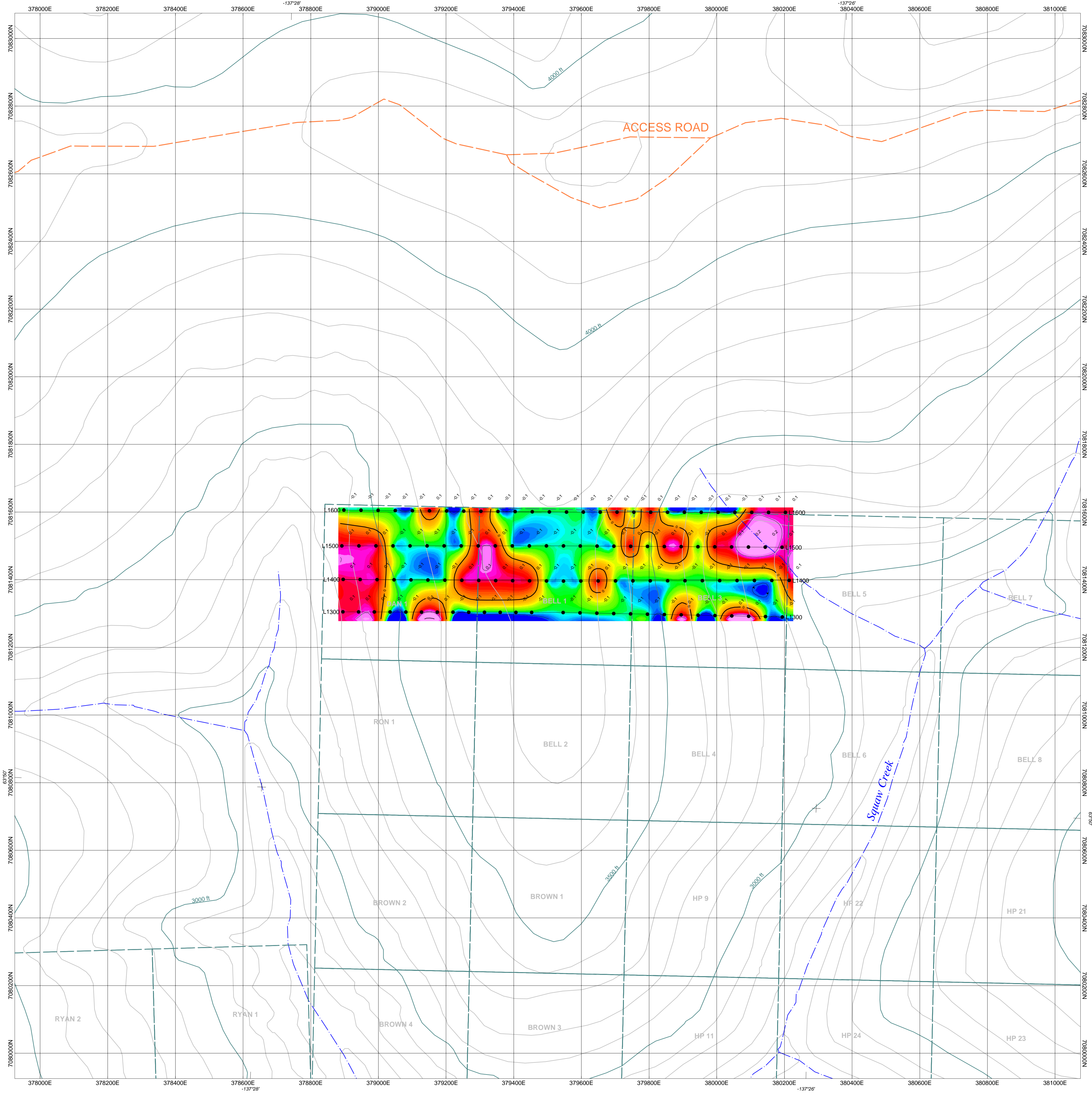
● Soil Sample Location and Number

Scale 1:5000  
 0 100 200 300  
 metres  
 NAD83 / UTM zone 8V

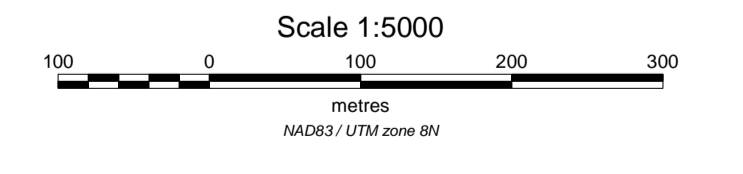
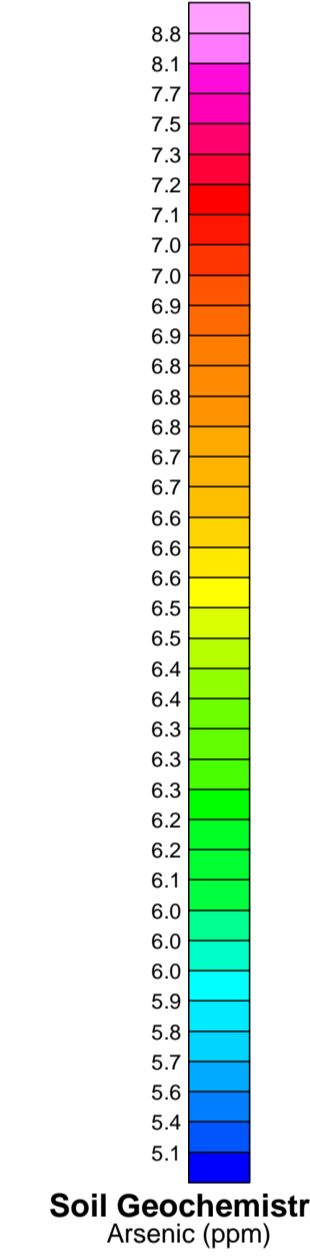
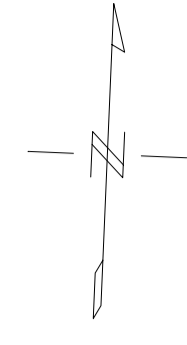
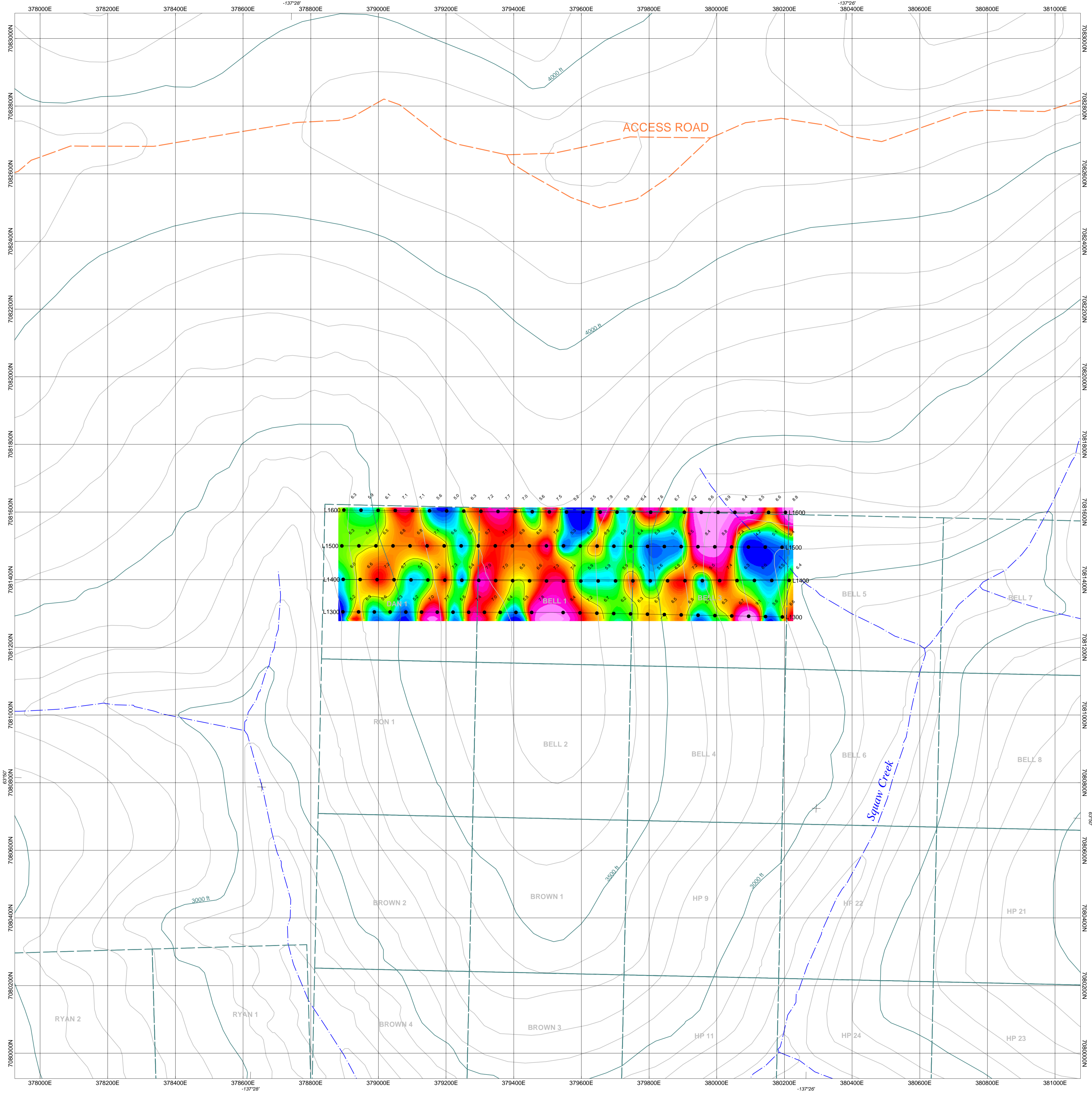


Soil Geochemistry  
Gold (ppb)





KINGFISHER SYNDICATE  
 HALCYON PROJECT  
 SOIL GEOCHEMISTRY - SILVER (ppm)  
 Dawson Mining District NTS 115P/14  
 Figure 8 November 15, 2004  
 AURORA GEOSCIENCES LTD



KINGFISHER SYNDICATE  
**HALCYON PROJECT**  
**SOIL GEOCHEMISTRY - ARSENIC (ppm)**  
 Dawson Mining District NTS 115P/14  
 Figure 9 November 15, 2004  
**AURORA GEOSCIENCES LTD**