

GEOPHYSICAL REPORT

PRINCE 1-46 CLAIMS

GRANT # YC20647-YC20692

094349

NTS # 115 0 / 15

NTS # 115 0 / 14

LAT: 63' 54 N

LONG: 139' 01 W

DAWSON MINING DIVISION

AUTHOR OF REPORT SHAWN RYAN

WORK PERFORMED OCTOBER 2001

DATE OF REPORT DECEMBER 2002

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& RESOURCE LIBRARY
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Whitehorse, Yukon Y1A 2C6



This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 4600.

M.B.H.
for Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

Costs associated with this report have been
approved in the amount of \$ 4,600.00
for assessment credit under Certificate of
work No. 4D 00385

K. Perry

Mining Recorder
Dawson City Mining District

TABLE OF CONTENT

| | |
|---|-----------|
| SUMMARY | 01 |
| INTRODUCTION | 01 |
| LOCATION | 01 |
| ACCESS | 01 |
| PROPERTY GEOLOGY | 01 |
| WORK PERFORMED / METHODS | 02 |
| GRID WORK | 02 |
| GEOPHYSICAL SURVEY | 02 |
| MAGNETIC SURVEY | 02 |
| GRADIENT SURVEY | 02 |
| INTERPRETATION | 03 |
| RECOMMENDATION | 03 |
| PROJECT COST | 04 |
| CLAIM MAP | 05 |
| GEOLOGY MAP | 06 |
| GRID LOCATION MAP | 07 |
| LARGE MAGNETIC MAP (back folder) | |
| LARGE GRADIENT MAP (back folder) | |

SUMMARY

The Prince 1-46 claims grant # YC20647- YC20692 will be renewed for a period of one year. The author Shawn Ryan holds the claims. The Prince 1-46 claims were staked to cover an area of high lead geochem anomalies coming from an old showing called the Box Car. A grid was placed over the old showing area with a geophysical survey conducted over the grid. A nice magnetic anomaly was detected starting at the old Box Car showing and heading in a northwest direction.

INTRODUCTION

The Prince 1-46 claims were staked to cover a regional high geochem signature of lead soil anomalies associated with the old Box Car showing. A flagged grid was placed over the old showing area. A Magnetic and Gradient survey was conducted over the grid with interesting results.

LOCATION

The Prince 1-46 claims are located 15 miles south east of Dawson City. The claim block covers the west side of Gold Bottom Creek.

ACCESS

The claim block can be accessed via the Hunker Creek road. The claims are situated 18 kilometers up the Hunker Creek road.

PROPERTY GEOLOGY

According to Mortensen geology map # 115 0 / 15 Open - File 1996-1(G) the Prince claim block covers two various rock types of Permian Klondike Schist. Unit Psc is located in the north part of the claim block and is a medium to dark green chlorite-quartz-muscovite schist. Unit Psq located in the central part of the claim block is a tan weathering muscovite and / or chloritic quartzite and quartz-muscovite-chlorite schist.

WORK PERFORMED / METHODS

GRID WORK

The Prince claims grid covered the area around the old Box Car showing. I performed a day of orientation with a Scintrex magnetometer to see what direction the magnetic anomaly was running from the old Box Car showing. The magnetic anomaly ran in a northeast direction from the surface showing. I proceed to place a base line going in a northeast direction starting 50 meters southwest of the showing and headed 700 meters in a northeast direction.

Lines were place on 25 meters spacing from lines 000 N to line 100 N. Lines were then move to 50 meter line spacing from line 100 N to 200 N. I then went to 100 meter line spacing from 200 N to line 700 N.

Station spacing were started on a 5 meters spacing for the first four lines then moved to a 10 meter station spacing for the rest of the grid. All station were marked with orange flagging and marked with black permanent markers.

In total theirs was 7.650 kilometers of lines put in with extra 700 meters of base line.

GEOPHYSICAL SURVEY

MAGNETIC SURVEY

The magnetic survey was run using two Scintrex Proton Magnetometers. I used one magnetometer as a base station taking reading every 30-second as it sits in one location all day during the survey. The base station recorded the daily earth magnetic drift. At the end of the day the base station and the field magnetometer are plug in and the daily drift is corrected. All data from base mag and the field mag are down loaded every night in a laptop computer. All data is then transfer to a disk for back up copies.

The magnetic survey was run taking reading every 5-10 meters. In total there was about 1230 magnetic station reading taken over the entire grid.

GRADIENT SURVEY

A gradient survey was conducted using a Scintrex gradient magnetometer. The gradient survey highlights any magnetic anomalies found and defines the exact contact of mineralization. I took reading every 5-10 meter at flagged station located on the lines. All data was down loaded every night on a laptop computer and files were save on disk for extra backup. In all there was 7.650 kilometers of survey lines run for a total of 1230 station reading taken over the entire grid.

INTERPRETATION

MAGNETIC SURVEY

The magnetic survey gave a good overall view of the area. It helps define three anomalous areas.

Area #1 is located around the Box Car showing. The anomaly is located around the old showing. It moves in a northeast direction. The actual mineralized showing is not magnetic but a magnetic unit is located 10 meters to the east of the showing. This anomaly move in an east-northeast direction is 90 meter wide and 300 meters long.

Area # 2 is a magnetic high flanking Area 1. It situated at the end of line 50 N, station 100 west. It travels in a north direction average 100 meters wide and is 400 meters long.

Area # 3 is a magnetic high anomaly located on the east part of the grid. It starts around line 200 N and moves in northeast direction. The anomaly average 200 meters wide and goes for 500 meters long. This anomaly seems to be broken up with potential cross fault. The magnetic high travels from line 300 N to line 500 N at around 300 E then break. The next magnetic high starts at line 500 N station 450 E and cross over to line 600 N at station 500 E where it breaks again. It re-appears on line 600 N station 600 E and cross over to line 700 N at station 600 E. The nature of this movement is still uncertain but could be explain with potential faulting.

GRADIENT SURVEY

The gradient survey mimics the magnetic survey. The results show higher magnetic contact areas in the broader magnetic anomalies. The Gradient survey results range from negative values of -33.2 to a positive value of 16.9 nT/m.

RECOMMENDATION

I would recommend a soil survey over the magnetic anomaly. This will give some indication on the potential extension of the hundred-year-old showing of copper, lead, zinc and gold. I would also recommended covering the rest of the claim block with grid and magnetic work.

PROJECT COST

Grid Work

8.35 kilometers of Flagged lines at \$150.00 per KL \$1,250.00

Magnetic survey

7.650 kilometers @ \$250.00 per KL \$1,912.00

Gradient survey

7.650 kilometers @ \$125.00 per KL \$ 956.00

Magnetic prospecting

Wage one day @ \$250.00 \$250.00

Magnetometer rental one day @ \$60.00 \$ 60.00

Truck rental, one day @ 50.00 \$ 50.00

Gas cost, one day @ \$25.00 \$ 25.00

Prospecting

Wage one day @ 250.00 \$250.00

Truck rental @ \$50.00 \$ 50.00

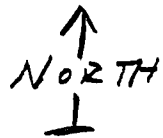
Gas cost, one day @ 25.00 \$ 25.00

Report Writing plus Maps \$600.00

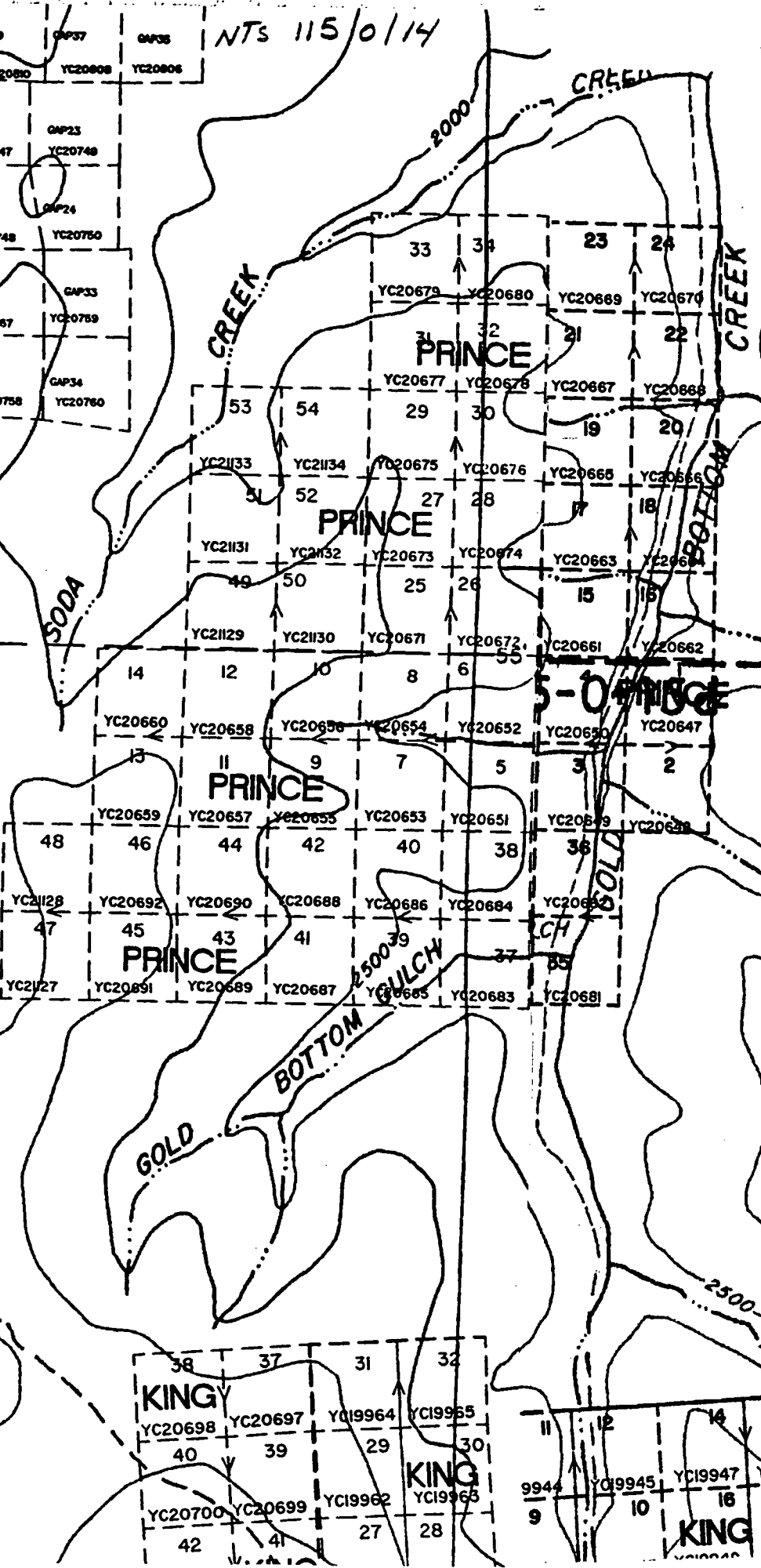
Total \$5,428.00

NTS 115/014

NTS # 1150/15



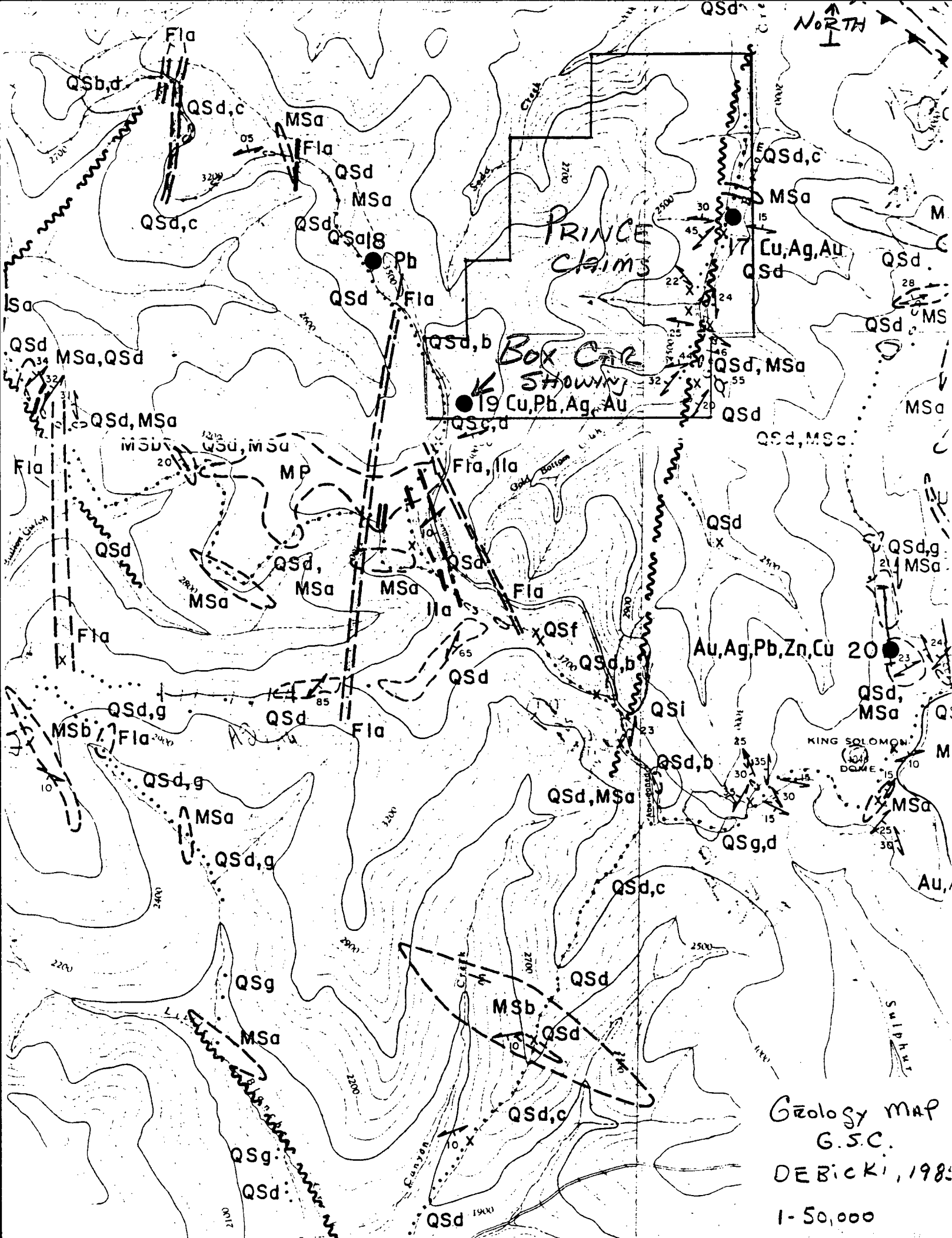
| | | | |
|---------|---------|----------|----------|
| YAC2089 | YAC2080 | YAC20808 | YAC20806 |
| GAP19 | GAP21 | GAP23 | |
| YC20746 | YC20747 | YC20748 | |
| GAP20 | GAP22 | GAP24 | |
| YC20749 | YC20748 | YC20760 | |
| GAP29 | GAP31 | GAP33 | |
| YC20756 | YC20767 | YC20769 | |
| GAP32 | GAP34 | | |
| YC20758 | YC20760 | | |



| | | |
|---------|---------|--------|
| 15 | JAE | |
| 1 | 1 | 2 |
| YAB9007 | YAB9006 | YC1789 |
| 4 | 3 | 19 |
| JAE | | |
| YAB9009 | YAB9008 | YAB932 |
| 6 | 5 | 17 |
| YAB9011 | YAB9010 | YAB932 |
| 8 | 7 | 11 |
| JAE | | |

| | | | |
|---------|---------|---------|---------|
| 38 | 37 | 31 | 32 |
| KING | | | |
| YC20698 | YC20697 | YC19964 | YC19965 |
| 40 | 39 | 29 | 30 |
| KING | | | |
| YC20700 | YC20699 | YC19962 | YC19963 |
| 42 | 41 | 27 | 28 |

| | | | |
|---------|---------|---------|---------|
| 11 | 12 | 14 | 13 |
| KING | | | |
| 9944 | YC19945 | YC19947 | YC19946 |
| 9 | 10 | 16 | 15 |
| KING | | | |
| YC19948 | YC19949 | YC19947 | YC19946 |



Geology map
 G.S.C.
 DEBicki, 1985
 1-50,000

Table 2 - Property Geology Legend
(from Debicki, 1985)

LATE CRETACEOUS TO EARLY TERTIARY

Felsic intrusive and volcanic rocks

FI

FIa light coloured quartz-feldspar rhyolite porphyry
and rhyolite

TRIASSIC OR OLDER

Rocks of varying metamorphic grade and degree and style of
deformation

Felsic plutonic rocks

FP, QS

QSa blocky weathering light grey to pinkish feldspar-
quartz schist

Quartzofeldspathic schistose rocks

QS

QSc buff weathering well foliated muscovite-feldspar-
quartz schist with quartz porphyroclasts

QSD buff weathering well foliated muscovite-feldspar-
quartz schist

QSe light green weathering hornblende/muscovite-
feldspar-quartz schist

Qsj muscovite-quartz schist with more than 5% garnet,
and with or without chlorite

QSk biotite-quartz schist, with or without calcite

Marble

MB

Mba cream and grey banded marble, with or without minor
quartz, muscovite and garnet

Mafic schistose rocks

MS

MSa light to medium green and buff weathering chlorite-
quartz schist

MSc silvery green weathering actinolite-chlorite schist

MSe light to medium green and buff weathering
calcareous chlorite-quartz schist: calcite may be
disseminated, in thin layers, or as small pink
blebs

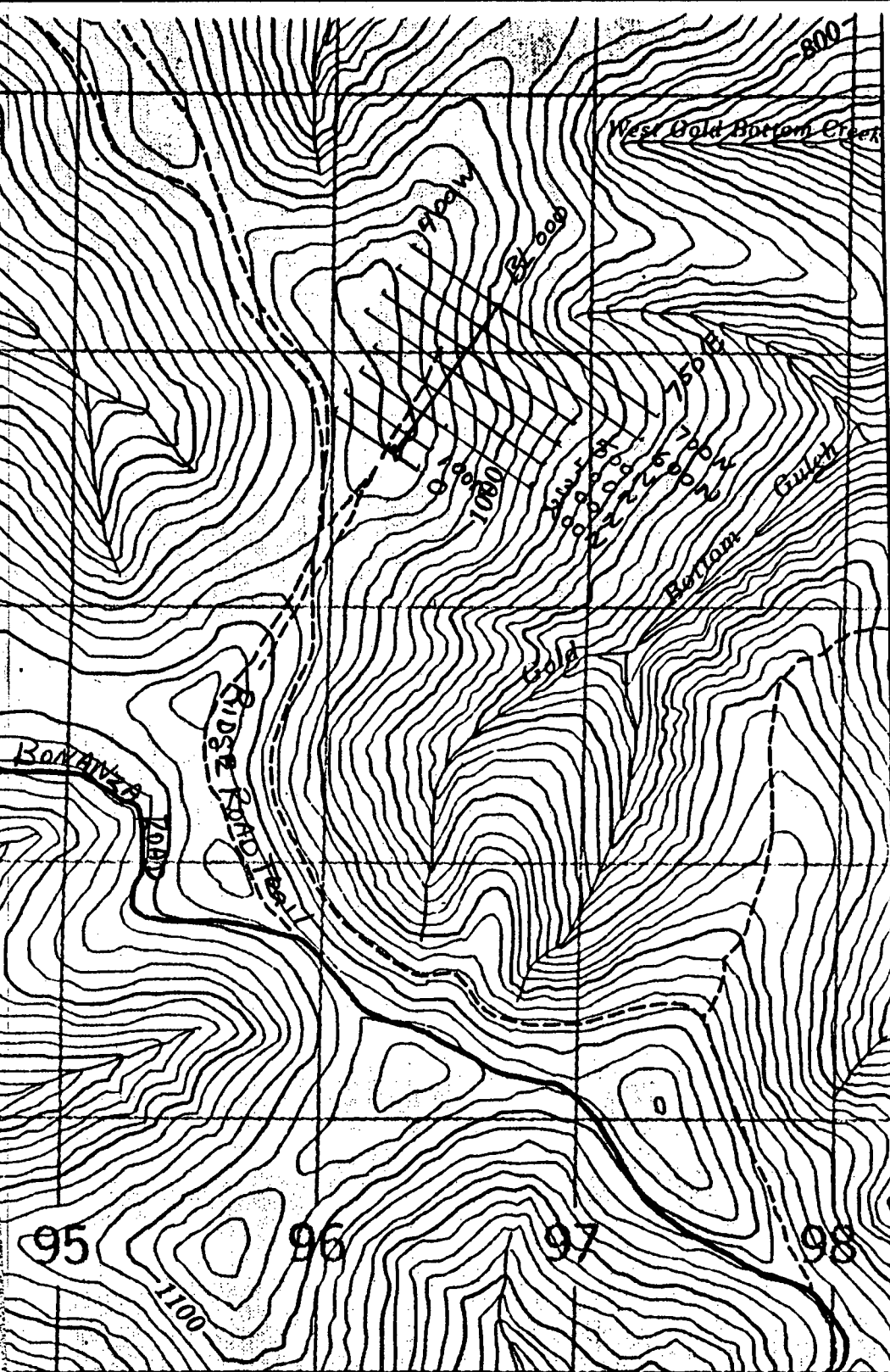
MSf silvery green weathering muscovite-chlorite quartz
schist with bluish quartz porphyroclasts

Ultramafic rocks

UM

UMa massive dark green serpentinite

UMb foliated dark green serpentinite



BOX CAR GRID LOCATION 2001

1-500m-1
1-25,000
SCALE

NTS
1150114

T.N.
N.G.



1° 34'
or/ou
28 Mils

28° 18'
or/ou
503 Mils

Grid north — Nord du quadrillage

Magnetic north — Nord magnetique

Use diagram only to obtain numerical values
APPROXIMATE MEAN DECLINATION 1992
FOR CENTRE OF MAP
Annual change decreasing 10.7'

N'utiliser le diagramme que pour obtenir les valeurs numériques
DÉCLINAISON MOYENNE APPROXIMATIVE
AU CENTRE DE LA CARTE EN 1992
Variation annuelle décroissante 10.7'

QUALIFICATION

I have being involved in the exploration business for the last 19 years.

I have trained as a geophysical technician with Kidd Creek Exploration for eight years.

I have worked as a geophysical contractor for 11 years.

I have ran numerous geophysical surveys and soil sampling surveys in the Yukon and Ontario.

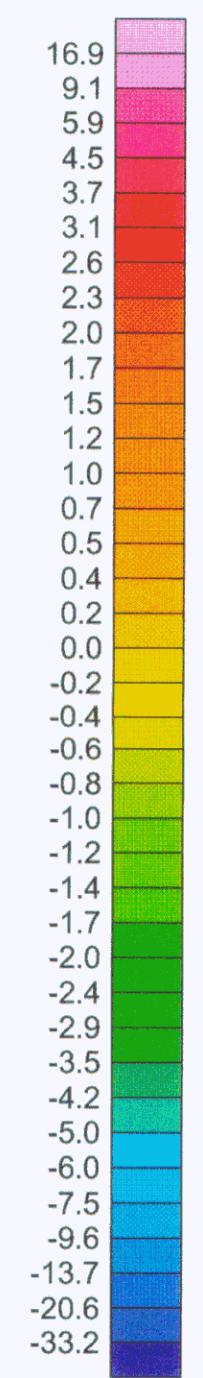
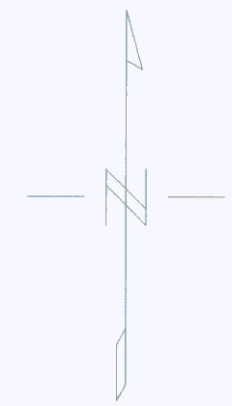
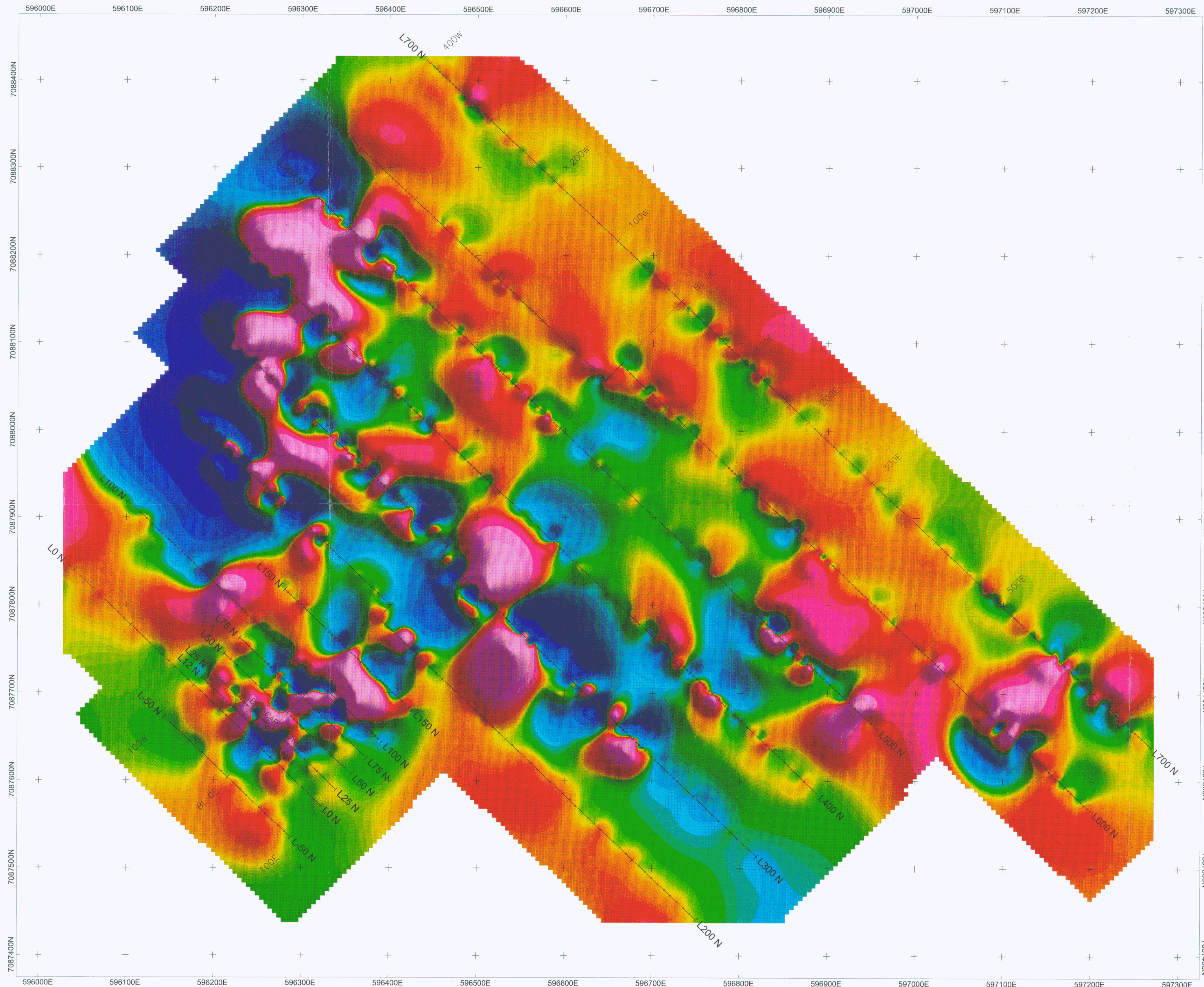
I have being actively prospecting in the Yukon for the last seven years.

I have being the prospector in charge of gathering the data and have overview the whole project.

SHAWN RYAN

PROSPECTOR

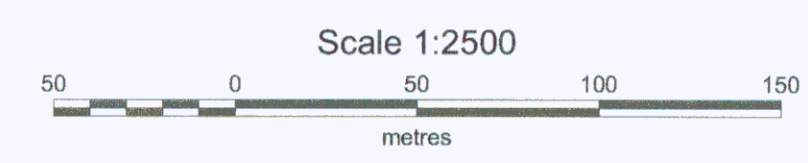




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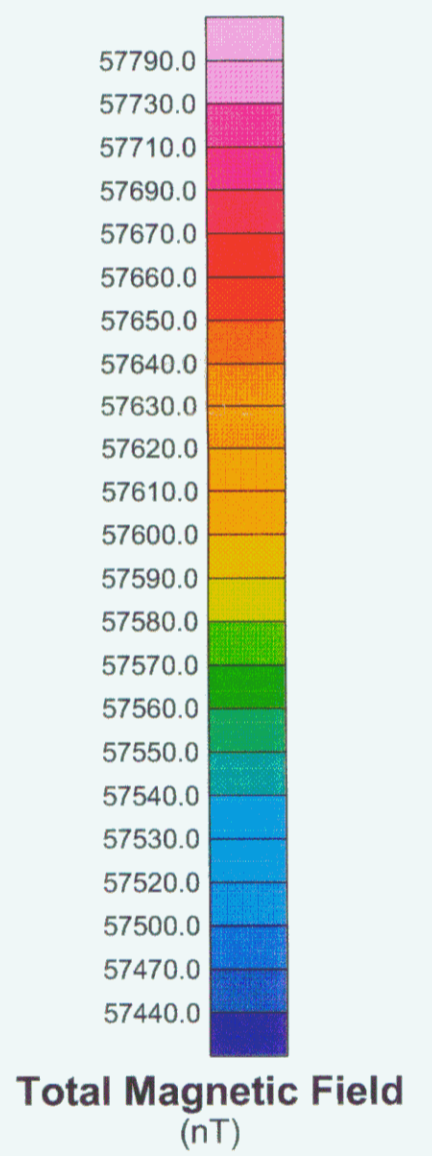
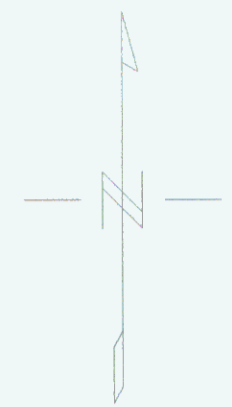
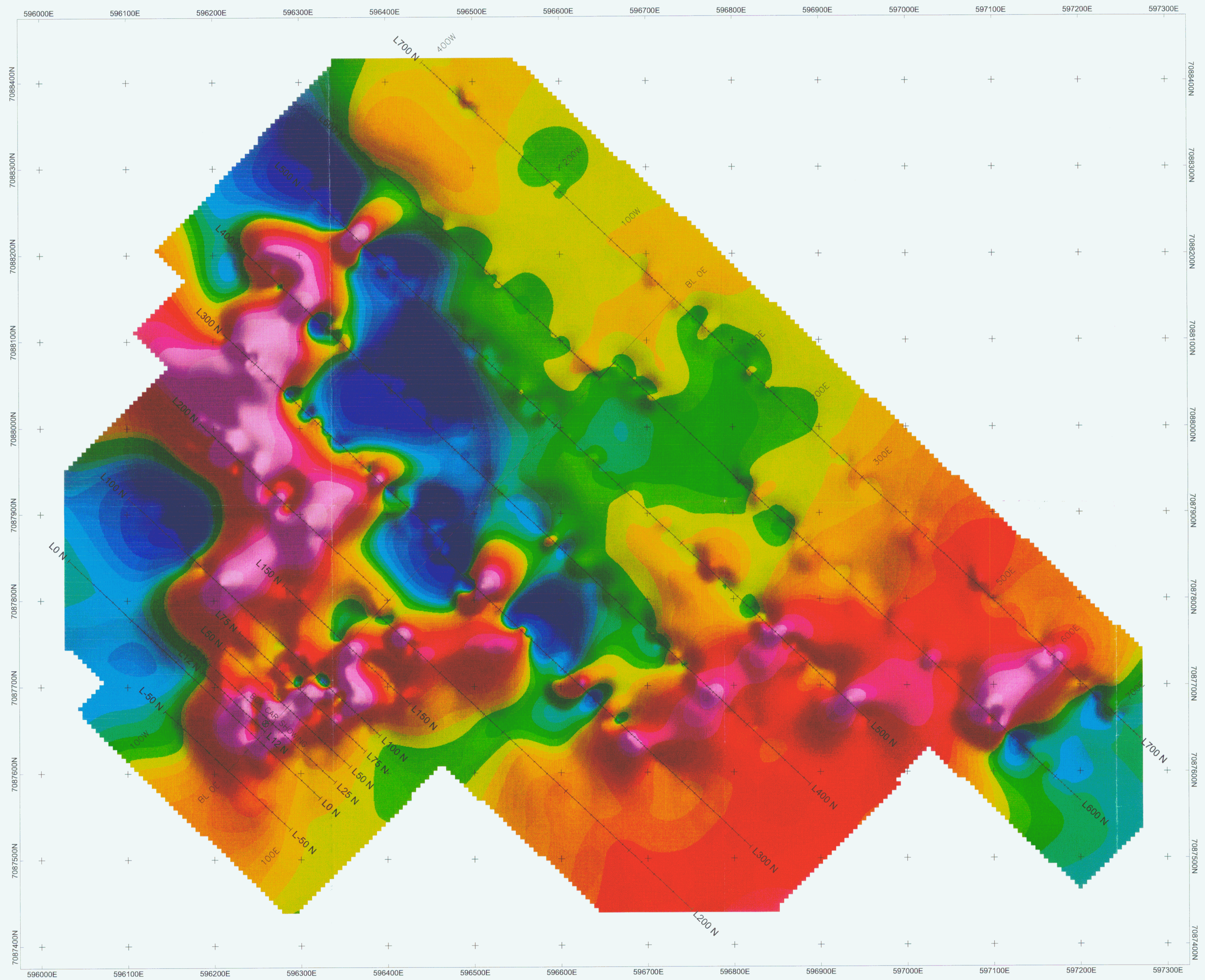
Total Magnetic Field Vertical Gradient
(nT/m)

TOTAL MAGNETIC FIELD SURVEY
VERTICAL GRADIENT
INSTRUMENT: Scintrex Envi mag / gradiometer
OPERATOR: Shawn Ryan
GRIDDING: Minimum curvature
GRID CELL SIZE: 5 m
TREND ENHANCEMENT: None
FILTERS: None
CONTOUR INTERVAL: 1 nT/m



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| | |
|---|---------------------------------|
| SHAWN RYAN | |
| BOX CAR PROPERTY | |
| Total Magnetic Field - Vertical Gradient | |
| Figure 2. | |
| NTS: 115 O/14 Mining District: Dawson, YT | Datum: NAD27 Date: 13 Nov 01 |
| AURORA GEOSCIENCES LTD. | |



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TOTAL MAGNETIC FIELD SURVEY
 INSTRUMENT: Scintrex Envi mag / gradiometer
 OPERATOR: Shawn Ryan
 GRIDDING: Minimum curvature
 GRID CELL SIZE: 5 m
 TREND ENHANCEMENT: None
 FILTERS: None
 CONTOUR INTERVAL: 10 nT



| | |
|--|---------------------------------|
| SHAWN RYAN | |
| BOX CAR PROPERTY | |
| Total Magnetic Field | |
| Figure 1. | |
| NTS: 115 O/14 Mining District: Dawson, YT | Datum: NAD27 Date: 13 Nov 01 |
| AURORA GEOSCIENCES LTD. | |

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