

MAR 20130019: RACE HORSE CREEK

Race Horse Creek- A report on precious metal exploration near Coleman, south west Alberta.

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20130019

page 1

AUG 08 2013

General Files CSMAR-MAR20130019
Metallic & Industrial Minerals Assessment
Report – Race Horse Creek
Submitted by: Melvin Kropinak

Assessment Report –Part B

RACE HORSE CREEK PROJECT

Metallic & Industrial Minerals Permit No. 9311080533

Report author: Melvin Kropinak
For client: Melvin Kropinak

Date: July 31, 2013

Confidentiality Report End
Date: August 8th 2014

TABLE OF CONTENTS

| | |
|---------------------------------------|-----------|
| Title page | Page 1 |
| Table of contents | Page 2 |
| Statement of project work | Page 3 |
| Text | Page 4 |
| Text | Page 5 |
| Actlabs certificate of analysis | Page 6 |
| Detection limit of minerals | Page 7-12 |
| Invoice | Page 13 |
| Expenditure breakdown by type of work | Page 14 |
| Signed statement | Page 15 |
| Exploration work map 1:48,000 scale | Page 16 |
| Topographic map | Page 17 |
| Sample data | Page 18 |

Project Work Statement

The bulk of the project work was simple prospecting. The majority of the time our party consisted of four people, but at a minimum, consisted of at least two people for safety purposes. Prospecting included rock grabs, panning, observing and noting outcrops and dikes and one day of taking some soil samples for geochemical analysis. The laboratory used was Activation Laboratories of Ancaster, Ontario. Accommodation was mostly done by tenting and trailering, but occasionally a motel was used in Coleman, Alberta.

Text

The purpose of the assessment work was to determine if any indication of base or precious metal could be found in the permit area.

The permit is in the south western part of Alberta and is accessed for prospecting by turning north, off of Highway 3, about one mile west of Coleman, Alberta. About eleven miles of travel on Atlas road, which is an all weather gravel road, leads to an old logging road which runs west towards Racehorse Pass. The permit is accessed after about one and a half miles on this road, travelling in a westerly direction. In the last two years we concentrated on the eastern and southern section of the permit and these areas are fairly well treed. In only one area were soil samples taken to be sent for geochemical testing, all other work was prospecting which mostly comprised looking at rocks, checking terrain and looking for outcrops and dikes. Since most of the prospecting was in a treed area, the soil and rocks that were exposed in the roots of overturned trees were closely examined as this would eliminate the need to dig a hole or a trench. Due to occasional high winds and storms in the area, there were plenty of displaced trees to allow us to take advantage of this. The prospecting was done in a grid pattern as much as possible although the topography of the land made this difficult at times. The dates of the prospecting work were Aug. 19 – Aug. 29, 2011 and July 20 – July 30, 2012 for a total of twenty-one days, mostly utilizing four people but always at least two people in the prospecting party. The soil sampling was done farther west near a small tributary of South Racehorse Creek and this spot is marked in blue on the 1:48,000 maps. The soil was obtained from a one and a half foot depth to try to avoid roots and twigs as much as possible. The individual that supervised was myself who is also the author of this report.

The rocks found in our prospecting were mostly old Paleozoic limestone sedimentary rocks that make up most of the Rocky Mountain range in this area. Igneous rock is rare in this area. In the area of the soil samples the rock is also of a limestone type sedimentary rocks and the geochemical analysis of the soils indicates low levels of radioactive minerals, base metal, indicator minerals, or precious metal minerals. A certified lab report of the samples is being included in Part B. The lab methodology used for the eight soil samples that were sent to Activation Labs is named by their geochemists as an Enzyme Leach selective extraction. It is mostly accomplished by mass spectrometry and the technical name is inductively coupled plasma emission mass spectrometry or ICP-MS. Most of the elements of the Periodic Table are measured and labeled for each soil sample, by using this method.

Approximately one mile west of Coleman, Alberta there is a long belt of volcanic rocks running in a north-south direction. Another two miles to the west of this volcanic belt there is a major thrust fault known as the Lewis Thrust Fault also running in a north-south direction and in certain areas this fault is very close to the provincial border (continental divide). It is not inconceivable that a mineral deposit could work its way to the surface near this fault and although the area has been looked over many times over

the years by prospectors, hunters and fishermen there is always a chance that this type of deposit may have occurred but has not yet been discovered.

Quality Analysis ...



Innovative Technologies

Date Submitted: 28-Aug-12

Invoice No.: A12-09323

Invoice Date: 06-Sep-12

Your Reference:

Mel Kropinak
2-1611 Bowen Rd.
Nanaimo BC Y9S LG5
Canada

ATTN: Mel Kropinak

CERTIFICATE OF ANALYSIS

8 Soil samples were submitted for analysis.

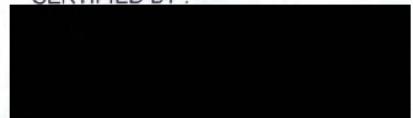
The following analytical package was requested: Code 7-Enzyme Leach Enzyme Leach ICP/MS(ENZYME)

REPORT **A12-09323**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

CERTIFIED BY :



Emmanuel Eseme , Ph.D.

Quality Control

ISO/IEC 17025

**ACTIVATION LABORATORIES LTD.**

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or
 +1.888.228.5227 FAX +1.905.648.9613
 E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Activation Laboratories Ltd. **Report: A12-09323**

| Analyte Symbol | Cl | Br | I | V | As | Se | Mo | Sb | Te | W | Re | Au | Hg | Th | U | Co | Ni | Cu | Zn | Pb | Ge | Ge | Ag | Cd |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
| Unit Symbol | ppb | ppb |
| Detection Limit | 2000 | 5 | 2 | 1 | 1 | 5 | 1 | 0.1 | 1 | 1 | 0.01 | 0.05 | 1 | 0.1 | 0.1 | 1 | 3 | 3 | 10 | 1 | 1 | 0.5 | 0.2 | 0.2 |
| Analysis Method | ENZ-MS | |
| 1 | 5000 | 143 | 39 | 46 | < 1 | 8 | 8 | 1.8 | 1 | < 1 | < 0.01 | < 0.05 | < 1 | 1.4 | 1.5 | 2 | 10 | 4 | 30 | 3 | < 1 | < 0.5 | 1.2 | 2.5 |
| 2 | 5000 | 175 | 64 | 137 | 4 | 15 | 14 | 2.4 | 1 | 2 | < 0.01 | < 0.05 | < 1 | 1.1 | 1.2 | 5 | 60 | 13 | 160 | 4 | < 1 | < 0.5 | 2.5 | 1.5 |
| 3 | 6000 | 94 | 42 | 37 | 2 | 6 | 10 | 1.7 | < 1 | 2 | < 0.01 | < 0.05 | < 1 | 1.0 | 1.0 | 7 | 18 | < 3 | 100 | 5 | < 1 | < 0.5 | 3.9 | 3.3 |
| 4 | 7000 | 104 | 32 | 43 | 1 | < 5 | 5 | 1.0 | < 1 | 1 | < 0.01 | < 0.05 | < 1 | 1.2 | 0.9 | 5 | 11 | < 3 | 170 | 3 | < 1 | < 0.5 | 0.4 | 5.7 |
| 5 | 7000 | 196 | 38 | 85 | 7 | < 5 | 27 | 4.2 | < 1 | 50 | 0.02 | < 0.05 | < 1 | 0.8 | 0.4 | 17 | 140 | 29 | 690 | 3 | < 1 | < 0.5 | < 0.2 | 1.5 |
| 6 | 3000 | 155 | 36 | 36 | 1 | 6 | 9 | 1.5 | < 1 | 2 | < 0.01 | 0.07 | < 1 | 0.6 | 0.9 | 3 | 14 | < 3 | 40 | 3 | < 1 | < 0.5 | 2.4 | 1.4 |
| 7 | < 2000 | 154 | 89 | 66 | 1 | < 5 | 24 | 8.7 | < 1 | 138 | < 0.01 | < 0.05 | < 1 | 1.2 | 0.5 | 10 | 15 | 15 | 140 | 2 | 1 | < 0.5 | < 0.2 | 2.0 |
| 8 | 11000 | 224 | 44 | 27 | 3 | < 5 | 10 | 6.8 | 1 | 3 | 0.01 | < 0.05 | < 1 | 1.0 | 0.8 | 7 | 8 | 18 | 520 | 15 | < 1 | < 0.5 | 0.4 | 2.2 |

Activation Laboratories Ltd. **Report: A12-09323**

| Analyte Symbol | In | Sn | Tl | Bi | Tl | Cr | Y | Zr | Nb | Hf | Ta | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
| Unit Symbol | ppb | |
| Detection Limit | 0.1 | 0.8 | 0.1 | 0.8 | 100 | 20 | 0.5 | 1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | |
| Analysis Method | ENZ-MS | |
| 1 | | 0.2 | < 0.8 | < 0.1 | 30.4 | 100 | < 20 | 15.7 | 40 | < 1 | 0.9 | < 0.1 | 14.3 | 23.4 | 3.7 | 14.9 | 2.9 | 0.7 | 3.0 | 0.5 | 2.4 | 0.5 | 1.3 | 0.2 | 1.2 |
| 2 | | 0.3 | < 0.8 | 0.3 | 43.0 | < 100 | < 20 | 19.1 | 34 | < 1 | 0.8 | < 0.1 | 13.7 | 16.4 | 3.1 | 12.7 | 2.5 | 0.6 | 2.5 | 0.4 | 2.2 | 0.5 | 1.3 | 0.2 | 1.1 |
| 3 | | 0.2 | < 0.8 | 0.5 | 22.2 | < 100 | < 20 | 14.0 | 20 | < 1 | 0.5 | < 0.1 | 9.3 | 9.0 | 2.0 | 7.8 | 1.4 | 0.4 | 1.8 | 0.3 | 1.5 | 0.3 | 0.9 | 0.1 | 0.9 |
| 4 | | < 0.1 | < 0.8 | 0.2 | 6.4 | 400 | < 20 | 5.3 | 19 | < 1 | 0.5 | < 0.1 | 4.0 | 4.2 | 0.8 | 3.5 | 0.6 | 0.2 | 0.9 | 0.1 | 0.8 | 0.2 | 0.5 | < 0.1 | 0.4 |
| 5 | | 0.1 | < 0.8 | 0.4 | 13.1 | 300 | 70 | 10.0 | 26 | < 1 | 0.6 | < 0.1 | 5.5 | 6.2 | 1.2 | 5.3 | 1.0 | 0.4 | 1.3 | 0.2 | 1.0 | 0.2 | 0.7 | < 0.1 | 0.7 |
| 6 | | 0.1 | < 0.8 | 0.3 | 14.4 | < 100 | < 20 | 6.0 | 15 | < 1 | 0.3 | < 0.1 | 4.0 | 3.8 | 0.8 | 3.4 | 0.7 | 0.2 | 0.8 | 0.1 | 0.7 | 0.2 | 0.5 | < 0.1 | 0.5 |
| 7 | | < 0.1 | < 0.8 | < 0.1 | 7.4 | 100 | 150 | 27.5 | 43 | < 1 | 0.9 | < 0.1 | 13.5 | 6.9 | 3.2 | 14.0 | 2.7 | 0.7 | 3.0 | 0.5 | 2.8 | 0.6 | 1.9 | 0.3 | 1.7 |
| 8 | | 0.1 | < 0.8 | 0.2 | 6.8 | < 100 | < 20 | 10.0 | 22 | < 1 | 0.5 | < 0.1 | 5.6 | 4.7 | 1.4 | 5.7 | 1.2 | 0.4 | 1.3 | 0.2 | 1.2 | 0.2 | 0.8 | < 0.1 | 0.7 |

Activation Laboratories Ltd. Report: A12-09323

| Analyte Symbol | Lu | Li | Be | Sc | Mn | Rb | Sr | Cs | Ba | Ru | Pd | Os | Pt |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppb |
| Detection Limit | 0.1 | 2 | 2 | 100 | 1 | 1 | 0.1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Analysis Method | ENZ-MS |
| 1 | 0.2 | < 2 | < 2 | < 100 | 47 | 8 | 289 | 0.2 | 62 | < 1 | < 1 | < 1 | < 1 |
| 2 | 0.2 | 2 | < 2 | < 100 | 662 | 20 | 398 | 0.1 | 209 | < 1 | < 1 | < 1 | < 1 |
| 3 | 0.1 | < 2 | < 2 | < 100 | 2070 | 42 | 281 | 0.2 | 164 | < 1 | < 1 | < 1 | < 1 |
| 4 | < 0.1 | < 2 | < 2 | < 100 | 910 | 14 | 239 | 0.1 | 324 | < 1 | < 1 | < 1 | < 1 |
| 5 | 0.1 | 5 | < 2 | < 100 | 1610 | 19 | 345 | 0.1 | 1510 | < 1 | < 1 | < 1 | < 1 |
| 6 | < 0.1 | < 2 | < 2 | < 100 | 364 | 14 | 201 | < 0.1 | 133 | < 1 | < 1 | < 1 | < 1 |
| 7 | 0.3 | < 2 | < 2 | < 100 | 2010 | 11 | 328 | 0.2 | 649 | < 1 | < 1 | < 1 | < 1 |
| 8 | 0.1 | < 2 | < 2 | < 100 | 1470 | 16 | 190 | < 0.1 | 1170 | < 1 | < 1 | < 1 | < 1 |

Activation Laboratories Ltd. Report: A12-09323

| Quality Control | | Cl | Br | I | V | As | Se | Mo | Sb | Te | W | Re | Au | Hg | Th | U | Co | Ni | Cu | Zn | Pb | Ga | Ge | Ag | Cd |
|-----------------|-------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
| Analyte Symbol | Unit Symbol | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Detection Limit | 2000 | 5 | 2 | 1 | 1 | 5 | 1 | 0.1 | 1 | 1 | 0.01 | 0.05 | 1 | 0.1 | 0.1 | 1 | 3 | 3 | 10 | 1 | 1 | 0.5 | 0.2 | 0.2 | |
| Analysis Method | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | |
| TILL-1 Meas | | 534 | | | 126 | 52 | | 8 | 60.2 | | | < 0.05 | < 1 | 9.7 | 4.8 | 60 | 43 | 274 | 190 | 45 | | | | | |
| TILL-1 Cert | | 6400.0 | | 99000 | 18000 | | 2000 | 7800.0 | | | | 13 | 90.0 | 5600.0 | 2200.0 | 18000 | 24000 | 47000 | 98000 | 22000 | | | | | |
| TILL-2 Meas | | 1160 | | 167 | 77 | | 116 | 2.7 | | 11 | | < 0.05 | < 1 | 29.2 | 15.7 | 46 | 88 | 360 | 340 | 64 | | | | | |
| TILL-2 Cert | | 12200.0 | | 77000 | 26000 | | 14000 | 800.0 | | 5000 | | 2 | 70.0 | 18400.0 | 5700.0 | 15000 | 32000 | 150000 | 130000 | 31000 | | | | | |
| 7 Orig | < 2000 | 158 | | 89 | 66 | 1 | < 5 | 24 | 8.6 | 1 | 138 | 0.01 | < 0.05 | < 1 | 1.2 | 0.5 | 10 | 17 | 14 | 140 | 2 | 1 | < 0.5 | < 0.2 | 2.1 |
| 7 Dup | < 2000 | 149 | | 88 | 66 | 1 | < 5 | 23 | 8.9 | < 1 | 138 | < 0.01 | < 0.05 | < 1 | 1.2 | 0.5 | 10 | 14 | 15 | 140 | 2 | 1 | < 0.5 | < 0.2 | 1.9 |
| Method Blank | < 2000 | < 5 | | < 2 | < 1 | < 1 | < 5 | < 1 | < 0.1 | 2 | < 1 | < 0.01 | < 0.05 | < 1 | < 0.1 | < 1 | < 3 | < 3 | < 10 | < 1 | < 1 | < 0.5 | < 0.2 | < 0.2 | |

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| Quality Control | | In | Sn | Tl | Bi | Ti | Cr | Y | Zr | Nb | Hf | Ta | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb |
|-----------------|-------------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Analyte Symbol | Unit Symbol | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Analysis Method | | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | |
| TILL-1 Meas | | | | | | | | | 2100 | < 20 | 30.1 | 21 | 5 | 0.7 | 0.3 | 31.7 | 99.3 | 36.8 | 7.8 | 1.8 | 1.2 | | 3.3 | | 3.2 |
| TILL-1 Cert | | | | | | | | | 5990000 | 65000 | 38000 | 502000 | 10000 | 13000 | 700.0 | 28000 | 71000 | 26000 | 5900.0 | 1300.0 | 1100.0 | | 3600.0 | | 3900.0 |
| TILL-2 Meas | | | | | | | | | 5600 | 90 | 43.5 | 114 | 20 | 3.3 | 1.3 | 51.6 | 139 | 50.3 | 10.6 | 2.5 | 1.5 | | 4.9 | | 4.8 |
| TILL-2 Cert | | | | | | | | | 5300000 | 74000 | 40000 | 390000 | 20000 | 11000 | 1900.0 | 44000 | 98000 | 36000 | 7400.0 | 1000.0 | 1200.0 | | 3700.0 | | 3700.0 |
| 7 Orig | < 0.1 | < 0.8 | < 0.1 | 7.8 | 100 | 150 | 27.3 | 42 | < 1 | 1.0 | < 0.1 | 12.9 | 7.3 | 3.1 | 13.5 | 2.6 | 0.7 | 2.9 | 0.5 | 2.7 | 0.6 | 1.9 | 0.3 | 1.6 | |
| 7 Dup | < 0.1 | < 0.8 | < 0.1 | 7.1 | 100 | 160 | 27.7 | 43 | < 1 | 0.9 | < 0.1 | 14.0 | 6.5 | 3.3 | 14.4 | 2.9 | 0.8 | 3.1 | 0.5 | 3.0 | 0.6 | 1.9 | 0.3 | 1.7 | |
| Method Blank | < 0.1 | < 0.8 | < 0.1 | < 0.8 | < 100 | < 20 | < 0.5 | < 1 | < 1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 | |

Activation Laboratories Ltd. Report: A12-09323

Quality Control

| Analyte Symbol | Lu | Li | Be | Sc | Mn | Rb | Sr | Cs | Ba | Ru | Pd | Os | Pt |
|-----------------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| Unit Symbol | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| Detection Limit | 0.1 | 2 | 2 | 100 | 1 | 1 | 1 | 0.1 | 1 | 1 | 1 | 1 | 1 |
| Analysis Method | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS | ENZ-MS |
| TILL-1 Meas | 0.5 | 10 | < 2 | < 100 | 28700 | 47 | 325 | 1.1 | 637 | | | | |
| TILL-1 Cert | 600.0 | 15000 | 2400.0 | 13000 | 1420000 | 44000 | 291000 | 1000.0 | 702000 | | | | |
| TILL-2 Meas | 0.7 | 57 | 6 | < 100 | 7850 | 327 | 724 | 25.5 | 1580 | | | | |
| TILL-2 Cert | 600.0 | 47000 | 4000.0 | 12000 | 780000 | 143000 | 144000 | 12000 | 540000 | | | | |
| 7 Orig | 0.3 | < 2 | < 2 | < 100 | 2090 | 11 | 328 | 0.2 | 642 | < 1 | < 1 | < 1 | < 1 |
| 7 Dup | 0.3 | < 2 | < 2 | < 100 | 1930 | 11 | 328 | 0.2 | 655 | < 1 | < 1 | < 1 | < 1 |
| Method Blank | < 0.1 | < 2 | < 2 | < 100 | < 1 | < 1 | 4 | < 0.1 | < 1 | < 1 | < 1 | < 1 | < 1 |

Quality Analysis ...



Innovative Technologies

This is your final copy. If you require an original to be mailed by post please advise, otherwise this email will be deemed sufficient.

Invoice No.: A12-09323

Purchase Order:

Invoice Date: 07-Sep-12

Date submitted: 28-Aug-12

Your Reference:

GST #: R121979355

Mel Kropinak
2-1611 Bowen Rd.
Nanaimo BC Y9S LG5
Canada

ATTN: Mel Kropinak

INVOICE

| No. samples | Description | Unit Price | Total |
|---------------------|----------------|------------|-----------|
| 8 | S4 | \$ 4.00 | \$ 32.00 |
| 8 | 7-Enzyme Leach | \$ 31.00 | \$ 248.00 |
| 8 | Disposal | \$ 0.20 | \$ 1.60 |
| Subtotal: : | | \$ 281.60 | |
| HST-BC12% : | | \$ 33.79 | |
| AMOUNT DUE: (CAD) : | | \$ 315.39 | |

Net 30 days. 1 1/2 % per month charged on overdue accounts.

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E-MAIL ancaster@actlabsint.com ACTLABS GROUP WEBSITE <http://www.actlabsint.com>

Actual Expenditure Breakdown by Type of Work

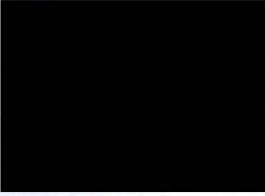
Racehorse Creek Project

| | | |
|------------------------------|----------|------------|
| Prospecting | | \$5,680.00 |
| Geochemical surveys/analysis | | \$315.39 |
| Field costs | | \$2420.00 |
| | Subtotal | \$8415.39 |
| Administration | | \$821.00 |
| | Total | \$9236.39 |

Submitted by Melvin Kropinak

July 31, 2013

I certify that these expenditures are valid and were incurred in conducting assessment work on the permit associated with this assessment report.

Signature:


The permit holder is Melvin Kropinak who is the author of this report and whose prospecting experience spans at least 40 years of effort. I accept responsibility for the technical data and results presented in this report.

Signed:



Alberta

[Permit of Melvin Kropinak]

↑
N

Permit # 9311080533

logging road over
Racehorse Pass into BCgreen arrows -
access to permit
from logging road.blue arrows - access
to permit from Atlas Rd.Blue ink line -
location of 8 soil samplesJuly 22, 2012
N 49° 45' 695 W 114° 37' 720
to
N 49° 45' 689 W 114° 37' 630Red ink lines -
prospecting grid lines

1.3 0 0.66 1.3 Miles

August 3, 2013

DISCLAIMER: Information presented on this map originates from various sources and is for general use only. Please be advised that some information may have been added, amended and deleted since this map was created.

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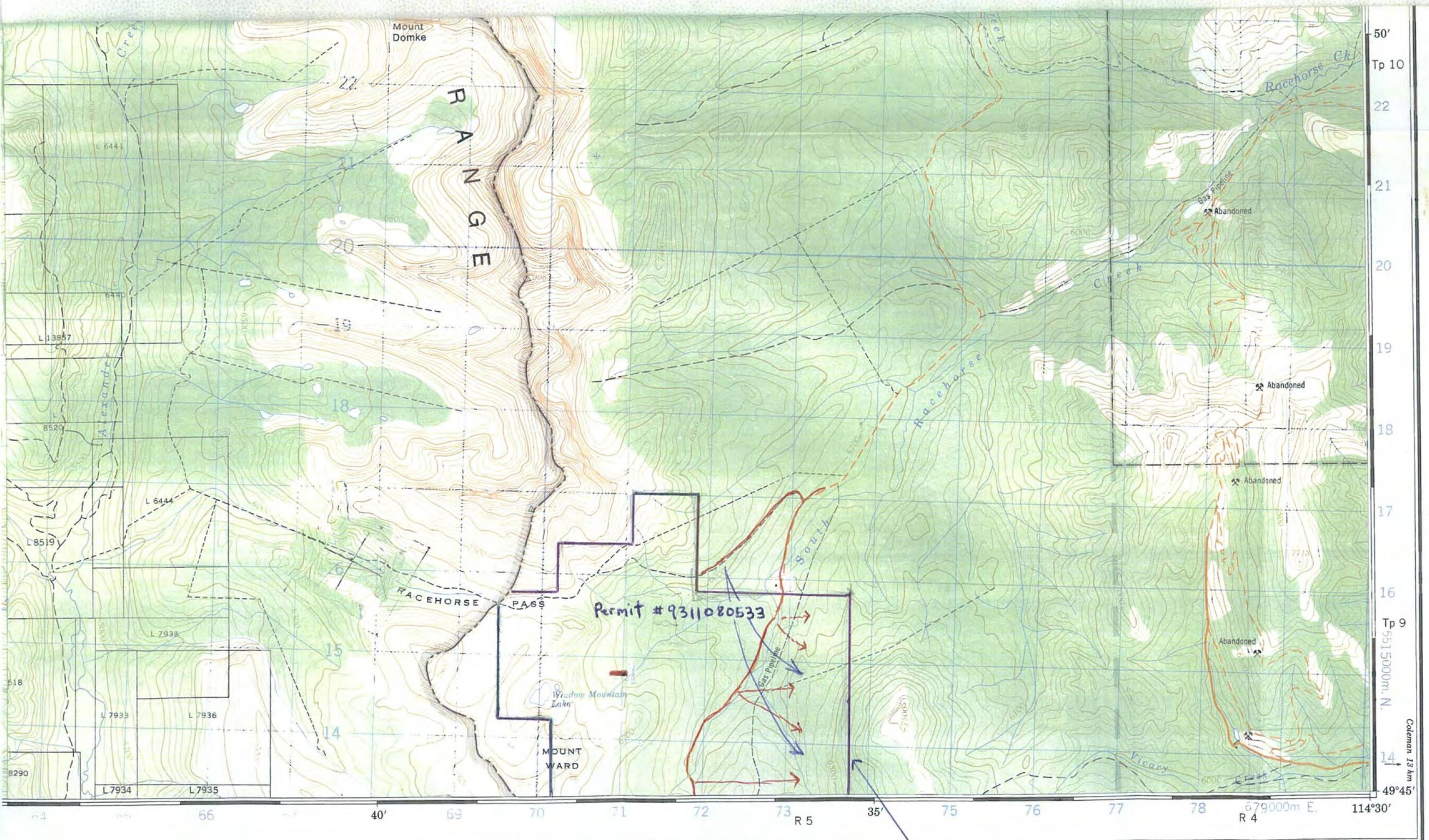
- Legend**
- Meridian
 - Township
 - Section
 - Quarter Section
 - Major Road
 - Major Lake and River
 - Alberta Boundary
 - Municipality
 - Municipality (Hamlet, Locality and Town)
 - Urban Service Area (Fort McMurray, etc.)
 - National Park
 - Parks and Protected Area
 - Indian Reserve - Surface
 - DND Military Base
 - DND Air Weapons Range
 - Mineral Ownership Under Review
 - Minerals Not Owned by Alberta Crown
 - Industrial Mineral
 - No Surface Access - Metallic and Industrial Mineral
 - Reserved-Withdrawn - Metallic and Industrial Mineral
 - Subject To - Metallic and Industrial Mineral
 - Other Access - Metallic and Industrial Mineral
 - ★ 30 Day Reserved Overview
 - 30 Day Reserved
 - A36 - Natural Gas Storage Agreement
 - O36 - Natural Gas Storage Agreement
 - A37 - Special Mineral Lease Application
 - O37 - Special Mineral Lease
 - A42 - Other Lease Application
 - O42 - Other Lease
 - A58 - Carbon Sequestration Evaluation
 - O58 - Carbon Sequestration Evaluation
 - A59 - Carbon Sequestration Evaluation
 - O59 - Carbon Sequestration Evaluation
 - A93 - Metallic and Industrial Minerals
 - O93 - Metallic and Industrial Minerals
 - A94 - Metallic and Industrial Minerals
 - O94 - Metallic and Industrial Minerals
 - A96 - Secondary Mineral Lease Application
 - O96 - Secondary Mineral Lease Application

1: 41,861



Notes

map scale:
1: 48,238



| | | | |
|----|-------|----|----|
| 95 | 96 | 97 | 98 |
| 98 | 97 | 96 | 95 |
| 22 | Tp 10 | | |
| 21 | | | |
| 20 | | | |
| 19 | | | |
| 18 | | | |
| 17 | | | |
| 16 | Tp 9 | | |
| 15 | | | |
| 14 | | | |
| 13 | | | |
| 12 | | | |
| 11 | | | |
| 10 | | | |
| 9 | | | |
| 8 | | | |
| 7 | | | |
| 6 | | | |
| 5 | | | |
| 4 | | | |
| 3 | | | |
| 2 | | | |
| 1 | | | |
| 0 | | | |

REFERENCE POINT CHURCH - ÉGLISE (as above)
POINT DE REPÈRE (ci-dessus)

EASTING: Read number on grid line immediately to left of point:
ABSCISSE: Noter le chiffre de la ligne du quadrillage immédiatement à gauche du repère:
Estimate tenths of a square from this line eastward to point:
Estimer le nombre de dixièmes du carré entre cette ligne et le repère en direction est:

NORTHING: Read number on grid line immediately below point:
ORDONNÉE: Noter le chiffre de la ligne du quadrillage immédiatement en-dessous du repère:
Estimate tenths of a square from this line northward to point:
Estimer le nombre de dixièmes du carré entre cette ligne et le repère en direction nord:

GRID REFERENCE:
RÉFÉRENCE AU QUADRILLAGE
Nearest similar grid reference 100 000 metres (about 63 miles)
La prochaine référence similaire est à 100 000 mètres (environ 63 miles)

Legend:
red ink line — location of 8 soil samples

N 49° 45' 895 W 114° 37' 720
to

N 49° 45' 689 W 114° 37' 630

Red arrows — exploration route off of Atlas road
Blue arrows — exploration route off of logging road

TABLEAU D'ASSEMBLAGE DU SYSTÈME NATIONAL DE RÉFÉRENCE CARTOGRAPHIQUE

| 115°30' | 114°00' |
|---------|---------|
| 50°15' | 50°15' |
| 82 J/3 | 82 J/2 |
| 82 G/14 | 82 G/15 |
| 82 G/11 | 82 G/10 |
| 82 G/9 | |

INDEX TO ADJOINING MAPS OF THE NATIONAL TOPOGRAPHIC SYSTEM

AIN

A

ME MÉRIEN.

2

3 Miles

4000 Mètres

4000 Verges

Information concerning location and precise elevation of bench marks can be obtained by writing to the Geodetic Survey, Surveys and Mapping Branch, Ottawa.

CONVERSION SCALE FOR ELEVATIONS

| Metres | 30 | 20 | 10 | 0 | 50 | 100 | 150 | 200 | 250 | 300 | Mètres |
|--------|-----|----|----|-----|-----|-----|-----|-----|-----|-----|--------|
| Feet | 100 | 50 | 0 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | Pieds |

CONTOUR INTERVAL 100 FEET

Elevations in Feet above Mean Sea Level

North American Datum 1927,

Transverse Mercator Projection

On peut obtenir des renseignements sur le lieu et l'altitude exacte des repères de nivellement en écrivant aux Levés géodésiques, Direction des levés et de la cartographie, Ottawa.

ÉCHELLE DE CONVERSION DES ALTITUDES

| Metres | 30 | 20 | 10 | 0 | 50 | 100 | 150 | 200 | 250 | 300 | Mètres |
|--------|-----|----|----|-----|-----|-----|-----|-----|-----|-----|--------|
| Feet | 100 | 50 | 0 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | Pieds |

ÉQUIDISTANCE DES COURBES 100 PIEDS

Elévation en pieds au-dessus du niveau moyen de la mer

Système de référence géodésique nord-américain, 1927

Projection transverse de Mercator

Établie par la DIRECTION DES LEVÉS ET DE LA CARTOGRAPHIE, MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES. Mise à jour à l'aide de photographies aériennes prises en 1977, provenant de la DIRECTION DES LEVÉS ET DE LA CARTOGRAPHIE, MINISTÈRE DE L'ENVIRONNEMENT, COLOMBIE-BRITANNIQUE. Vérification des ouvrages en 1979. Publiée en 1980.

Ces cartes sont en vente au Bureau des Cartes du Canada, ministère de l'Énergie, des Mines et des Ressources, Ottawa, ou chez le vendeur le plus près.

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Ministère de l'Énergie, des Mines et des Ressources.

TORNADO MOUNTAIN

82 G/15

EDITION 3

| Sample | | | | Location | |
|-----------|----------------|--------------------------------------|---|--|---|
| ID# | When collected | Method | Description | GPS Reading | Notes |
| A12-09323 | July 22/12 | 8 soil samples 50 meters Apart | Amt. 500 gms small rocks & brown soil with no vegetation | N49 45 795 W114 37 720 to N49 45 689 W114 37 630 | tributary of south Racehorse Creek |

| <u>Sample</u> | <u>Location</u> |
|---------------|------------------------|
| 1 | N49°45'695 W114°37'720 |
| 2 | N49°45'695 W114°37'717 |
| 3 | N49°45'686 W114°37'681 |
| 4 | N49°45'686 W114°37'670 |
| 5 | N49°45'692 W114°37'653 |
| 6 | N49°45'694 W114°37'649 |
| 7 | N49°45'686 W114°37'634 |
| 8 | N49°45'689 W114°37'630 |

Prospecting notes

~~June 19, 2001~~
Aug. 19, 2001

①

~~Aug. 19/01~~ Starting west of Coleman Alberta, Hwy 3. From junction of Hwy 3 & Allison Rd. go North & camp at area locals call 'Sheep Corrals'. Afternoon of June 19, drive north of Sheep Corrals to junction of logging road and Allison Rd. (about 5 miles north) of Sheep Corrals or 11 miles north of Hwy 3) Travel west on this logging rd. towards B.C./Alberta border. This road is rutted due to weather and requires off-road vehicles or 4 wheel drive truck type vehicles. Travel 1½ miles west on this road to an area of a rock slide that traverses the road. Disembark here and walk down the slide heading south with our party of 4 people, including myself. The other 3 members are Chris Cornborough, Dan Bryant and Dennis Kropinski. As we head southwards we are also descending into a ravine which includes a creek which is a tributary of the South Racehorse creek. The descent is steep.

The purpose of this prospecting trip,

which will take about 2 weeks, will be
to search for quartz-like rocks that
may be part of 'float' for a mineral
deposit. Also to take some soil samples
to be sent away for geochemical analysis.
~~and take some water samples to be
sent away for geochemical analysis.~~

The group spent about 8 hours today
near the creek bottom looking at quartz
samples, before returning to camp.

ML

Aug 20/11

Prospecting group today comprises some
4 people - myself, Dan Bryant, Chris Cornborough,
and Dennis Kropiwak. Out from camp
fairly early (8:00 A.M.), heading north on
Allison (Atlas) Road to same logging road
used yesterday. Our destination is the
same tributary of S. Racehorse Cr.,
roughly $N49^{\circ} 46' 230''$ $W114^{\circ} 37' 690''$

~~This is the area where we expect to find the~~
~~quartz-bearing bed that contains the mineral deposit.~~
~~This is the area where we expect to find the mineral deposit.~~

Looked at, broke and examined
pieces of quartz on north side of creek.

Headed back to camp at 6:00 P.M.
not enough sunlight for the day.

Aug 21/01

Group today is same 4 people. Going to same area north of our camp to same tributary of S. Racehorse Creek. Going to destination at ~~W.W.W.~~ east side of Allison Rd.

Examined pieces of quartz on south side of creek. Panned some gravel from the creek in this area but found nothing of interest.

All quartz samples found so far are clear or white in appearance and do not have brown or grey or pink color associated with it, which would perhaps indicate the presence of some mineralization.

Back to camp at Sheep Corrals. Prospected 8 hours today.

11h

Aug 22/01

Same group - myself, Dan Bryant, Dennis Kropinski, Chris Cornborough.

Headed north to same logging road that heads west. Arrived at slide area and walked down (about 500 yds.) to creek.

Today, it was decided to walk along the creek in an easterly direction for about 1 kilometer to see if the creek intersects any dykes. This took longer

(4)

than anticipated because the area is heavily wooded with few trails. The group was spread out with the closest person near the creek and the others higher up on the side of the hill but all following the same direction. The effort was stopped after travelling about 1 Kilometer. No significant dykes were encountered.

Very tired today. Nine hours of hard prospecting. MK

Aug. 23/41

3 people in the group today, myself, Dan Bryant and Chris Cornborough. Dennis sent into Coleman for supplies.

Going to same area north of our camp. Upon arriving at logging road junction, headed west for 1½ miles to rock slide. Walked down slide to creek at point: N $49^{\circ}46'230''$ W $114^{\circ}37'680''$

This time walked on south side of the creek in an easterly direction for about 1 Kilometer. One person close to creek and others on side of hill made apart. Side of hill

is also steep on this side of the creek. Lots of deadfall trees and undergrowth makes for hard hiking. Cannot examine rocks due to soil + trees but are mostly looking for dyke formations.

No significant or interesting dykes encountered, in 8 hours of prospecting.

W.W.

Aug 24/81

Four people prospecting today.
Chris Cornborough, Dennis Kropinak, myself
and Dan Bryant.

Starting at creek at same
point: N $49^{\circ}46'30''$ W $114^{\circ}37'690''$.

Going ~~east~~ from this point towards
mountains, terrain rises quickly and
soon encounter rock that has slid down
from mountain side. Starting to get
just above tree line so going is a little
easier. Checking rock from slide for
quartz but only found a few specimens
of white quartz. Broke these and checked
them with a 10 X power magnifying glass.
Nothing of interest. 8 hrs. prospecting

W.W.

Aug. 25/11
11:35 AM

11:35 AM | 15 min

3 people today - myself, Chris Comberough, Dan Bryant.
Went up Allison (Atlas) Rd.; stopped in ~~middle~~
middle of permit and walked east. Looked at
soils/rocks from overturned trees, broke some.

Sedimentary type rocks, no igneous, no quartz.

Terrain heavily treed. No dikes encountered.

8 hrs. prospecting. MC.

Aug. 26/11

3 people today, myself, Chris, Dan

Up Allison Rd. and stopped at southern portion of permit. Headed west, heavily treed.

Looked at overturned tree roots and checked soils and rocks. A few

darper colored rocks that looked like igneous rocks. Broke some. Kept going in east-west direction to mimic grid pattern. 8 hrs.

prospecting. M

Aug-27 / 2011

Mar. 2011
W.M. Smith

Four people today, myself, Chris, Dennis, Dan.
~~We~~ went to same starting point as yesterday
(south area of concession) walked west again
in east-west direction to maintain grid pattern.
Broke some exposed quartz type rocks, looked
at rocks of overturned trees, 8 hrs. prospecting.

III. Petrography and

M.S. path

Aug. 28/2011, Jasper, path west of Hwy 8

met up with the ~~theirs~~ ^{mine} ~~old~~ ^{new} grid pattern.
4 people today. Myself, Chris, Dan, Dennis.

went to same starting point off of Allison Rd.
but this time went east in same type of
grid pattern formation. Examined rocks,
found white quartz type rocks. Lots of ravines,
some clear areas to find exposed rocks.
Some areas of shale rocks. 8 hrs. prospecting. ML

Aug. 29 / 2011

3 people today . Myself , Dan , Dennis .
Drove up Allison (atlas) Rd. , to southern part
of permit . Travelled east in a grid pattern ,
observed rocks , headed north in a grid pattern .
Looked at rocks of overturned trees . Some clay
soils encountered . Found small amount of
iron pyrite embedded in a host rock .
 $8\frac{1}{2}$ hours of work on this last day . MK

July 20/12 2012

Prospecting group today stays the same -
Chris Cornborough, Dennis Kropinski, Dan Bryant,
Mel Kropinski.

North from camp, on ~~the~~ Atlas road
to logging road junction and head
west to rock slide. Walking down rock
slide to creek. ~~crossing~~ ~~crossed~~ ~~crossed~~
~~crossed~~ ~~crossed~~ ~~crossed~~ Headed east in grid pattern.

Today ~~we~~ looked for & examined
quartz rocks. All four people ~~were~~ on
north side of creek checking for soil
outcrops caused by weather erosion,
roots of overturned trees, etc. Area
is heavily treed and slopes fairly
steeply, making travelling fairly slow.

From starting point - distance travelled
was about one kilometer. Width of search
area was from creek to about 200
yards up the hill. Samples of white
colored quartz found and examined.
8½ hours spent working today. M

July 21 /12

Group today consists of Mel Kropnick and Dan Bryant. Travelled north to south part of permit. Travelled east on foot in east-west direction in roughly straight line to keep to grid pattern. Near eastern end of permit, travelled north to also keep to grid pattern. Examined and broke exposed rocks. Found shale type rocks a lot. A few pieces of white/clear quartz examined. Small ravines and hills. Heavily treed but some clearings with grass cover. 8 hrs. in the field. MC

July 22 /12

Prospecting group today has 3 people - myself,
~~XXXXXX~~, Dan Bryant, Chris. North from ~~camp~~ camp,
Atlas Rd. to logging road junction and head
west to rock slide. Walk down slide to
creek, up other side, over ridge and down
again to another tributary of S. Racehouse Ch.
Started taking soil samples at N $49^{\circ}45'695$
W $114^{\circ}37'720$. Took 8 samples in total, each
about 50 meters apart. Last sample at N $49^{\circ}45'689$
W $114^{\circ}37'630$. Head back north on return
trip to logging road and did some panning in
the creek, with no significant findings. 8 hrs.
prospecting.

ML

July 23 / 12

Group consists of myself, Dan Bryant, Chris
Cromborough and Dennis Krupinak. Left from camp
(Sleep carals) on atlas Rd., north to northern part
of permit. Headed east in a grid pattern to
concentrate on eastern part of permit for a few days.
Looked for overturned trees to examine soils and rocks
in roots. Checked for quartz looking rocks and
checked some under magnification. Worked 8½ hrs. M

July 24/12

2 people in group today. Myself and Dan Bryant. Same start off point as yesterday, then walked east again, following grid pattern. Looked at and broke some rocks from exposed areas. Checked some quartz samples (white quartz) Nothing significant found. 8 hrs. prospecting.

July 25/13

Group consists of myself, Dan Bryant, Chris
Cumborough. Went up atlas road to middle of
permit. Headed east and then north in a grid
pattern. Looked at exposed rocks and rocks of
overturned trees. Found and broke some quarry rocks
and examined under 10 x magnifying glass. Nothing of
significance noted. Worked 8 hrs. MK

July 26 / 12

Prospecting group of Mel Kropinak, Dan Bryant, Chris Combsborough. Travelled north on atlas road to middle of permit. Headed east in a grid type pattern and then headed south in same type of grid pattern. Looked for unusual rocks, especially quartz type rocks. Found only white quartz. Shale type rocks on sides of ravines. Examined rocks on roots of overturned trees. 8 hrs. in the field. MC

July 27 / 12

Group today consists of 3 people; Mel Kropinski, Dan Bryant and Dennis Kropinski. Traveled north on Atlas road to northern part of permit. From the road, walked east and then south in a reasonably straight line to try to keep to grid pattern.

Heavily treed but examined exposed rocks, especially quartz. Only found clear white quartz pieces. No evidence of igneous rocks. Ended up at south end of permit border and then walked west to the road for pick up. 8½ hrs. in the field. NC

July 28/12

Group today consists of 3 people ; Mel Kropinski, Dan Bryant and Dennis Kropinski. Drove north and stopped at south end of ~~_____~~ permit. Wallbed in an east/west direction heading east in a grid pattern straight line. Examined exposed rocks especially those that seem a different color or heavier than country rock. Nothing of interest found. 8 hrs. prospecting. M.

July 29/12

Group today is 3 people - Mel Kropnick,
Dan Bryant and Dennis Kropnick. Drove north
from ~~exp~~ camp to middle of permit (~~-~~ Atlas Road)
walked east. Mel Kropnick and Dan ~~walked~~ walking
east and then north in a grid pattern. Dennis walking
east, then south in a grid pattern, looking at
exposed rocks on the surface and looking for quartz
type rocks. Found some clear/milky quartz.
Looked for evidence of igneous rocks and dikes
but not successful. Nothing of interest found today.

MC.