**Ministry of Energy, Mines & Petroleum Resources**
Mining & Minerals Division
BC Geological Survey

**Assessment Report**
**Title Page and Summary**

**TYPE OF REPORT [type of survey(s)]:** Airborne Magnetic Survey

**TOTAL COST:** $19,875.00

**AUTHOR(S):** Walcott, A. , Walcott, P.

**SIGNATURE(S):** digital

**NOTICE OF WORK PERMIT NUMBER(S)/DATE(S):** September 7-9th

**YEAR OF WORK:** 2017

**STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S):** 5676238

**PROPERTY NAME:** Independence

**CLAIM NAME(S) (on which the work was done):** 402839,584059,593857,593858,593872,593875,597281,597282,
597896,597897,600001,833717,896484,1020165,1044473,1052978

**COMMODITIES SOUGHT:** Cu, Au, Ag, Pb, Zn

**MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN:** 092HNE105 092HNE147 092HNE146 092ISE054 092ISE165 092ISE164 092I

**MINING DIVISION:** Skeena

**NTS/BCGS:** 104A/04

**LATITUDE:** 56 ° 05 ' 13 " **LONGITUDE:** 129 ° 55 ' 00 " **(at centre of work)**

**OWNER(S):**

1) Richard Billingsley

2)

**MAILING ADDRESS:**

11114 147A St.
Surrey B.C.

**OPERATOR(S) [who paid for the work]:**

1)

2)

**MAILING ADDRESS:**

**PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):**

Stikine, Polymetallic, Intermontane, Copper, Gold, Silver, Lead, Zinc, Betty Creek, Unuk, Hazelton Group

**REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:** 21950

Next Page

| TYPE OF WORK IN THIS REPORT | EXTENT OF WORK (IN METRIC UNITS) | ON WHICH CLAIMS | PROJECT COSTS APPORTIONED (incl. support) |
|---|---|---|---|
| **GEOLOGICAL (scale, area)** | | | |
| **Ground, mapping** | | | |
| **Photo interpretation** | | | |
| **GEOPHYSICAL (line-kilometres)** | | | |
| **Ground** | | | |
| **Magnetic** | | | |
| **Electromagnetic** | | | |
| **Induced Polarization** | | | |
| **Radiometric** | | | |
| **Seismic** | | | |
| **Other** | | | |
| **Airborne** | 199 | All | $19,875.00 |
| **GEOCHEMICAL (number of samples analysed for...)** | | | |
| **Soil** | | | |
| **Silt** | | | |
| **Rock** | | | |
| **Other** | | | |
| **DRILLING (total metres; number of holes, size)** | | | |
| **Core** | | | |
| **Non-core** | | | |
| **RELATED TECHNICAL** | | | |
| **Sampling/assaying** | | | |
| **Petrographic** | | | |
| **Mineralographic** | | | |
| **Metallurgic** | | | |
| **PROSPECTING (scale, area)** | | | |
| **PREPARATORY / PHYSICAL** | | | |
| **Line/grid (kilometres)** | | | |
| **Topographic/Photogrammetric (scale, area)** | | | |
| **Legal surveys (scale, area)** | | | |
| **Road, local access (kilometres)/trail** | | | |
| **Trench (metres)** | | | |
| **Underground dev. (metres)** | | | |
| **Other** | | | |
| | | **TOTAL COST:** | $19,875.00 |

**EVENT #5676238**

# AN ASSESSMENT REPORT

**ON**

**A HELIBORNE MAGNETIC SURVEY**

**INDEPENDENCE PROPERTY**
**STEWART AREA, BRITISH COLUMBIA**

**SKEENA M.D.**
**56° 05' 13" N, 129° 55' 00" W**
**NTS 104A/04**

**Claims:**

**402839,584059,593857,593858,593872,593875,597281,597282,**
**597896,597897,600001,833717,896484,1020165,1044473,1052978**

**Work Dates: September 7th-9th, 2017**

**FOR**

**RICHARD BILLINGSLEY.**
**SURREY, BRITISH COLUMBIA**

**BY**

**ALEXANDER WALCOTT, B.Sc**
**PETER E. WALCOTT, P. Eng**

**PETER E. WALCOTT & ASSOCIATES LIMITED**
**Coquitlam, British Columbia**

**APRIL 2018**

## TABLE OF CONTENTS

## INTRODUCTION.

Between September 7th and 9th ,2017, Peter E. Walcott & Associates Limited undertook a heli-borne magnetic survey over the Independence property for Richard Billingsley.

The survey consisted of some 199-line kilometers of airborne magnetics flown with a nominal line spacing of some 200 meters on north-south orientated lines, with orthogonal tie lines spaced with a nominal line spacing of some 1000 meters.

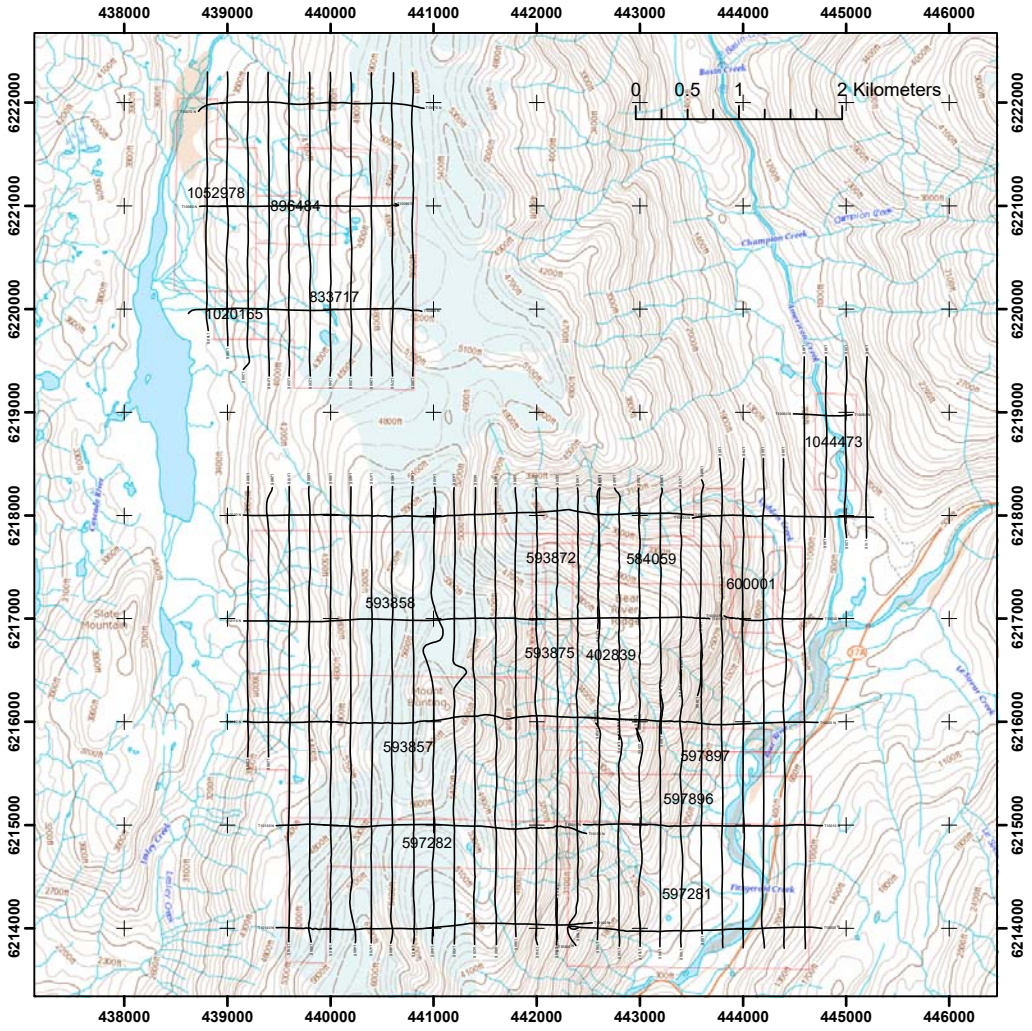
## PROPERTY LOCATION AND ACCESS

The Independence project is located some 17 kilometres north-northwest of the community of Stewart, British Columbia.

Access to the property is gained via Highway 37A from Stewart, and then via a network of resources roads.


*Property Location Map*

## PROPERTY LOCATION AND ACCESS con't




*Independence Flight Block*

## PREVIOUS WORK

The Independence Property has been the subject of numerous exploration programs, since the early 1900's consisting of prospecting and mapping, geochemical, geophysical and drilling campaigns along with some historic mining.

These occurrences, and other work programs are well documented in the Minfile and ARIS systems.

The author would refer the reader to the BC Ministry of Energy and Mines – Assessment Report Indexing System (ARIS) http://www.empr.gov.bc.ca/mining/geoscience/aris for the historic public reports.

## REGIONAL AND PROPERTY GEOLOGY

The Independence property is situated within the Intermontane belt of the Stikinia Terrane. The property is dominantly underlain by north north-eastly striking, steeply dipping Hazelton volcanic units of the Unuk and Betty Creek Formation.

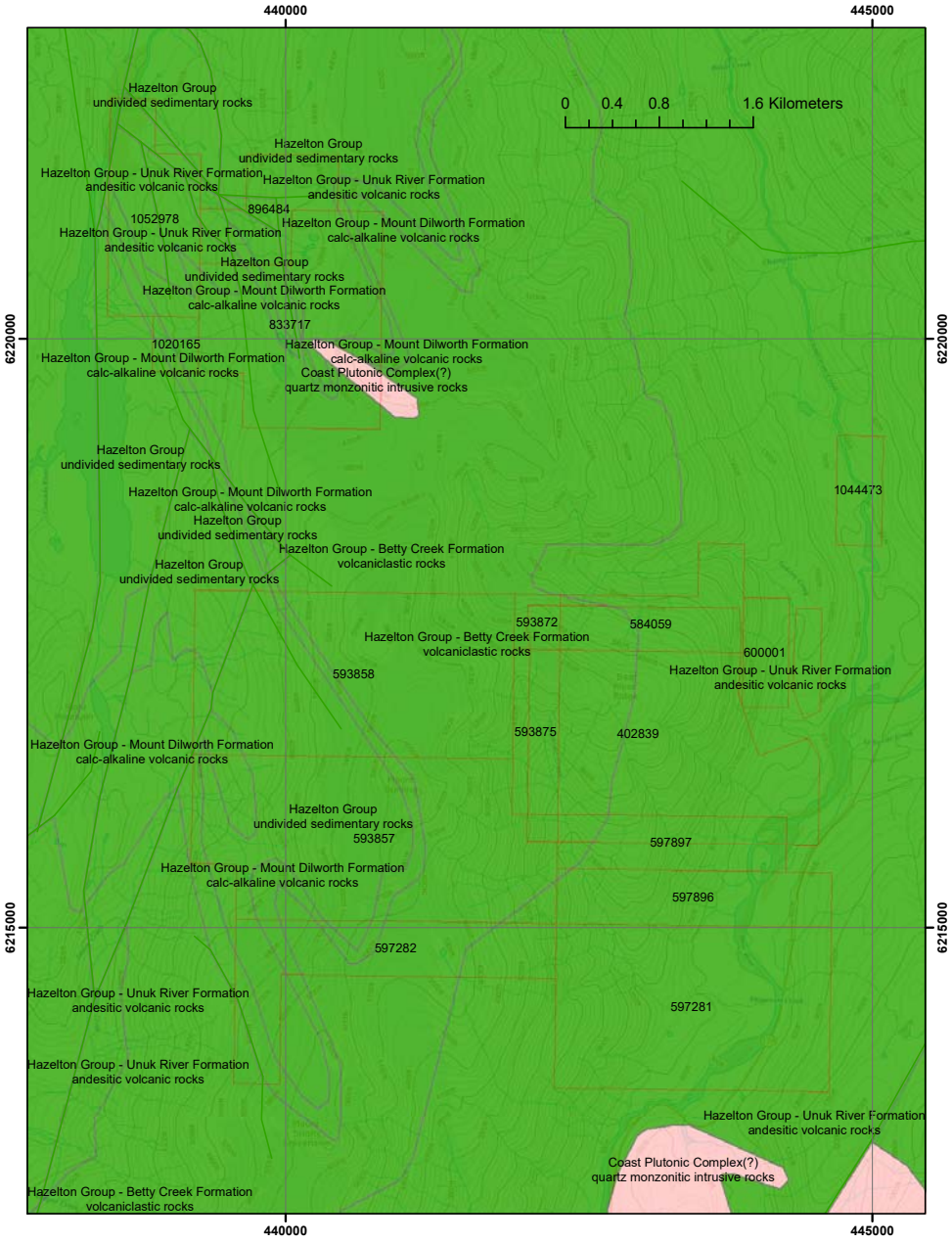
The volcanics are intruded by several closely spaced north-northwest trending quartz monzonite and andesite dikes that form part of the Portland Canal dike swarm (Bulletin 58)

Mineralization on the property is dominantly associated with polymetallic veins.

| MINFILNO | COMMODIT_D | NAMES |
|---|---|---|
| 104A 090 | Silver, Copper, Lead, Zinc | IRON CAP, MJ |
| 104A 164 | Zinc, Lead, Copper, Gold, Silver, Tungsten | SLIPPERY IAN, STRIKE 1-3, ELK, MOOSE |
| 104A 098 | Gold, Silver, Lead, Copper | SPIDER NO. 1 (L. 4172), SPIDER 1, SPIDER, SPIDER NOS. 1-3 (L. 4172-4174) |
| 104A 061 | Silver, Lead, Gold, Copper, Zinc | SILVER CROWN, STRIKE, M.J., STRIKE 1-3, ELK, MOOSE |
| 104A 040 | Gold, Copper, Silver | A & T, INDEPENDENCE 1, INDEPENDENCE, BIG CASINO |
| 104A 038 | Silver, Copper, Gold, Lead, Zinc | INDEPENDENCE, INDEPENDENCE 2, INDEPENDENT 1-5, INITIAL, BIG CASINO |
| 104A 132 | Gold, Silver, Copper | INDEPENDENCE 1, INDEPENDENT 1-5, INITIAL, BIG CASINO, ROCK OF AGES |
| 104A 073 | Silver, Gold | DALY-SULLIVAN (L. 3685-3684), DALY (L. 3685), SULLIVAN (L. 3884), VANDAL FR. (L. 3785), DALY-SULLIVAN, SLATE, MAHOOD, S AND D FR., S. AND D. FR., VALLEY VEIN, SHURE |
| 104A 033 | Gold, Silver, Copper, Lead, Zinc | MONTROSE, MOCCATROSE (L. 76), WATTERLOO (L. 79), WATERLOO, WATERPUMP, RED CLIFF |
| 104A 034 | Copper, Zinc, Lead | BIG CASINO (L. 4529), LITTLE CASINO (L. 4532), OURAY FR. (L. 4533), JACK OF CLUBS (L. 4530), LOOKOUT FR. (L. 4531) |
| 104A 091 | Lead, Zinc, Silver, Gold, Copper | M.J., STRIKE 1-3, ELK, MOOSE |
| 104A 068 | Zinc, Lead, Silver, Copper | LOIS (L. 3687), EDITH (L. 3686) |
| 104A 037 | Copper, Gold, Silver, Zinc | RED CLIFFE (L. 75), RED CLIFF, REDCLIFF, MOUNT LYELL (L. 77), MAC FRAC. (L. 86), MAC FR., DOT FR. |
| 104A 036 | Copper, Lead | RED CLIFF EXTENSION, COPPER HILL 1, COMBINATION FR. |
| 104A 131 | Gold, Copper, Silver | TOURNIGAN, INDEPENDENCE 2, BIG CASINO, INDEPENDENCE, ROCK OF AGES |
| 104A 010 | Silver, Gold, Zinc, Lead, Copper | SPIDER NO. 3 (L. 4174), SPIDER 3, SPIDER, SPIDER NOS. 1-3 (L. 4172-4174) |

*Minfile Occurences.*

## REGIONAL AND PROPERTY GEOLOGY con't




*Property Geology with Minfile Occurences. After BCGS*

## PURPOSE

The purpose of the airborne magnetic survey was to provide property wide modern magnetic coverage to aid in future exploration.

## SURVEY SPECIFICATIONS.

*The Airborne Magnetic Survey.*

The airborne magnetic survey was conducted using a bird type system towed on a 65' line by a ASTAR BA (GSKJ) operated by Silver King Helicopters Ltd of Smithers, British Columbia.

The bird unit consists of three main components – C-824 Cesium Magnetometer manufactured by Geometrics San Jose, California, AR3000 Laser Range Finder manufactured by Acuity of Portland, Oregon and a 19x GPS manufactured by Garmin International Inc. of Kansas City, Kansas.

The C-824 Cesium Magnetometer is a highly sensitive magnetic sensor capable of providing sensitivity up to 0.01 nT and sampling rates up to 1000 Hz. On this survey a sampling rate of 10 Hz was employed.

The respective components were in turn connected to the helicopter via a shielded multi-conductor cable within the tow line for power and data transmission to the logging units on the helicopter.

Flight line navigation data was obtained using Hemisphere R330 GNSS receiver with a 10 Hz update rate.

Data logging and navigation were carried out utilizing Geometrics MagLogPro software on a Panasonic CF-19 Toughbook computer with a secondary 7" daylight viewable pilot navigation monitor.

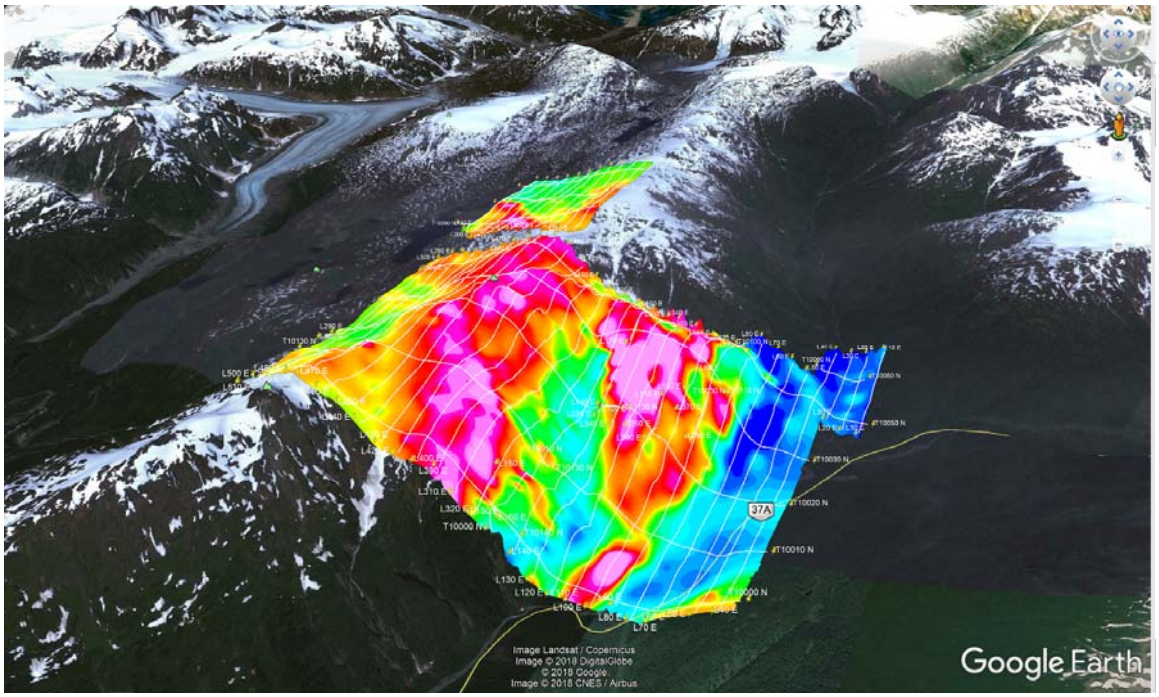
In addition to the airborne unit the survey also utilized two GSM 19 proton precession magnetometer manufactured by GEM Instruments of Richmond Hill, Ontario as base magnetometers. These instruments measure variations in the total intensity of the earth's magnetic field to an accuracy of plus or minus one nanotesla.

## SURVEY SPECIFICATIONS cont'd

The survey coverage consisted of some 50 north-south orientated flight lines and 14 orthogonal tie lines.

The survey was carried out with a mean bird height of some 52.2 meters.

| Survey Area | # of Lines | # of Tie Lines | Total Distance |
|---|---|---|---|
| Independence | 50 | 14 | 199 km |




Independance Block – Survey Area

## DATA PROCESSING AND PRESENTATION.

The data was first exported from MagLogPro, where the various sensor inputs were merged into Geosoft compatible ascii files. This merged dataset was then loaded into Geosoft Oasis Montaj for data reduction and processing.

The data was first corrected for diurnal magnetic drift, utilizing the magnetic base stations. The data was then lag corrected to account for positioning errors due to instrument delay and other positional errors. Tie line levelling was then undertaken prior to gridding.

Gridding was then undertaken on the levelled line data utilizing Geosoft's rangrid algorithm using a 35 meter cell size.

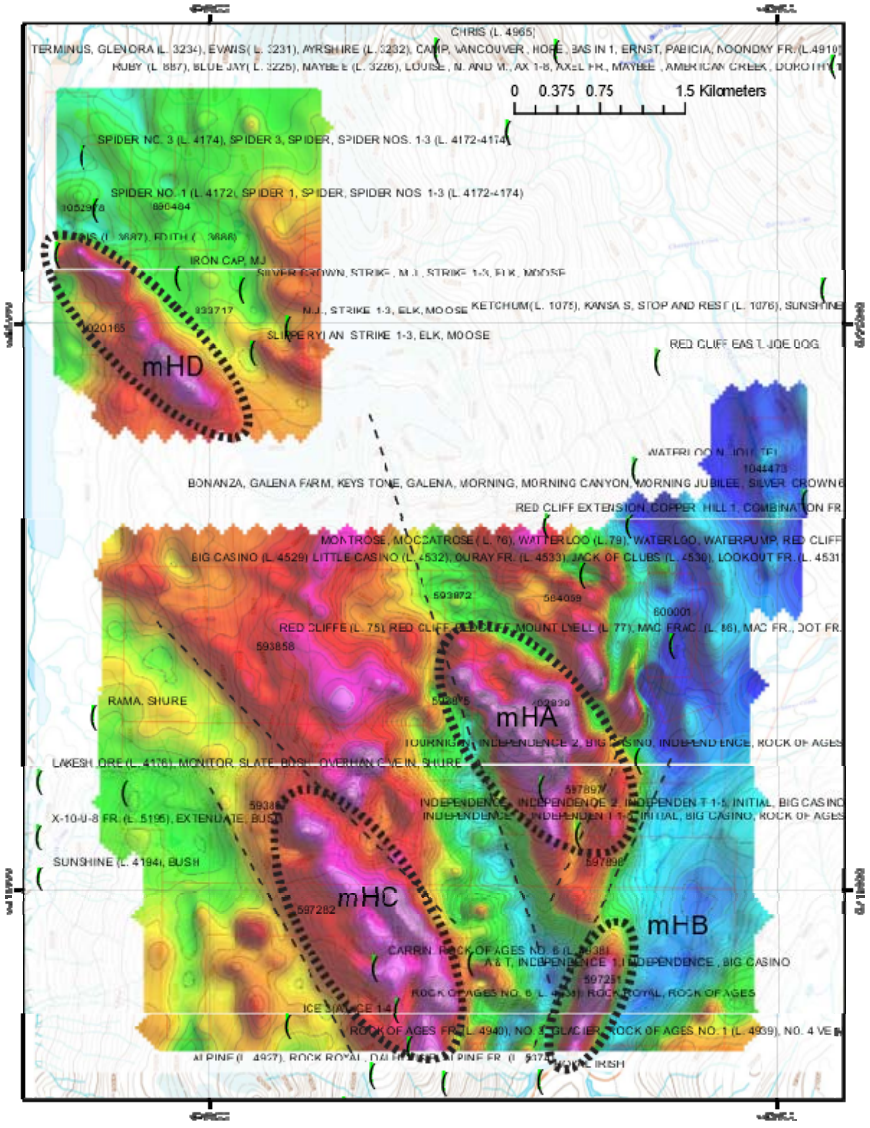
The reduced and leveled data set was then subject to several filtering techniques using the Geosoft MagMap module for evaluation and presentation.

The magnetic data for each of the respective blocks presented in this report is Contours of Total Magnetic Intensity, and Contours Calculated First Vertical Derivative at a scale of 1:10,000.

## DISCUSSION OF RESULTS

The results of the 2017 airborne magnetic survey show several magnetic domains within the survey block. Within these domains a dominant north westerly fabric is clear and likely associated with known northwesterly trending dikes.

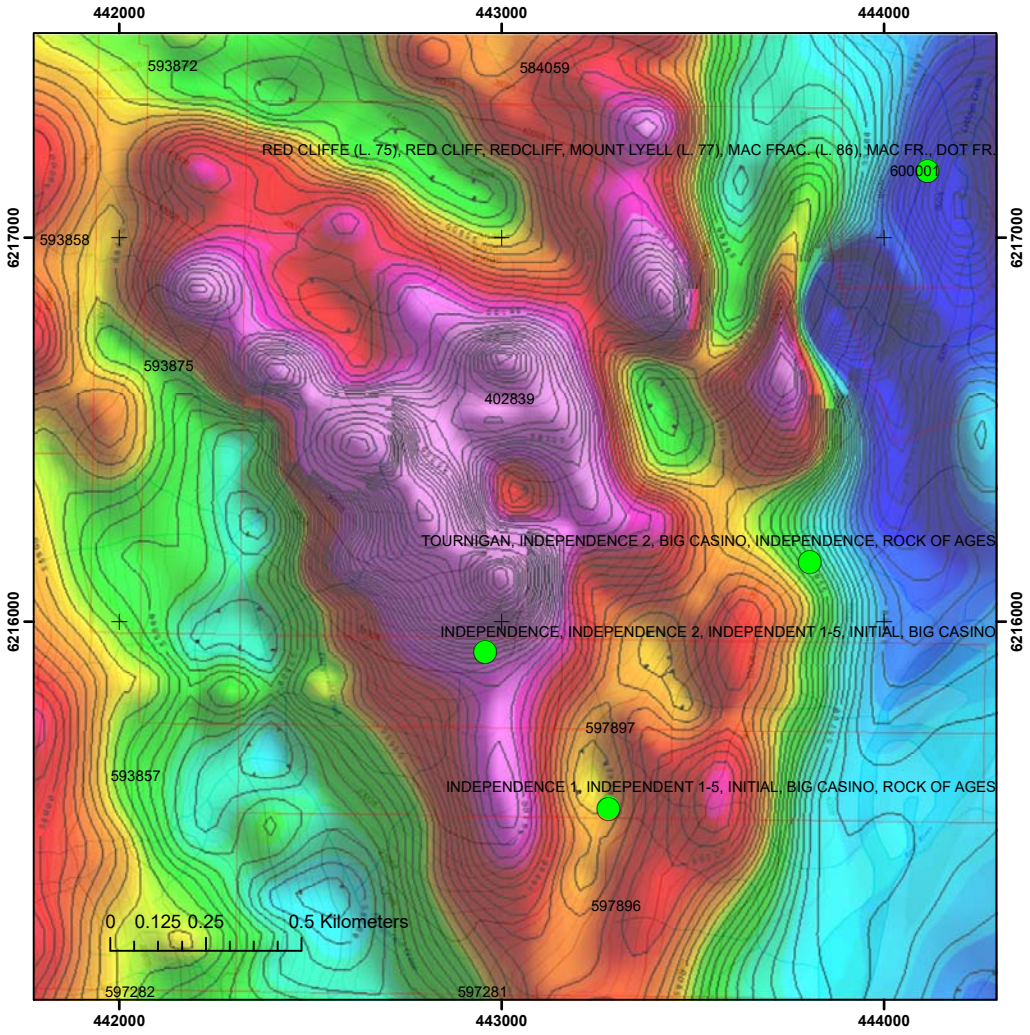
Four intense magnetic anomalies proximal to known mineral occurrences can also be observed within the dataset.




Total Field Intensity with Minfile Occurences

## DISCUSSION OF RESULTS

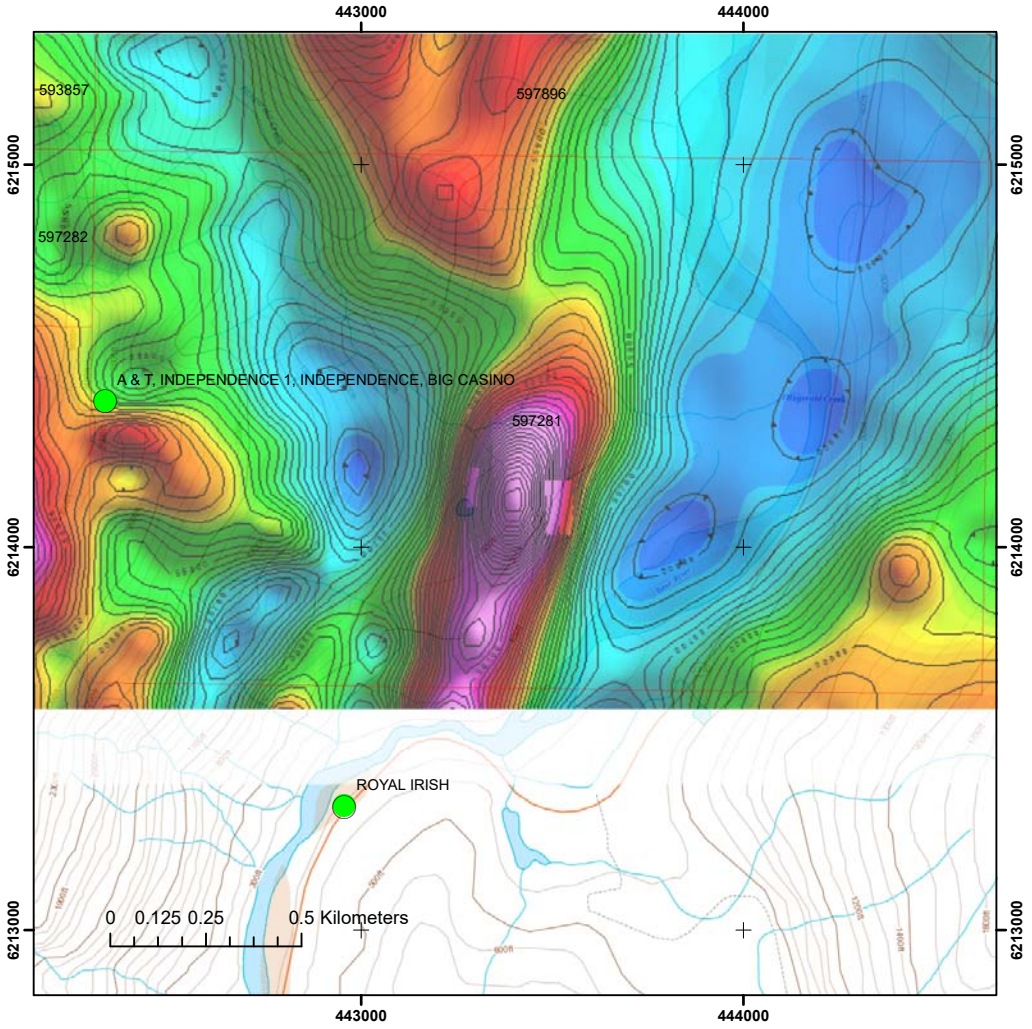
Anomaly mHA is situated in the eastern portion of the survey block proximal to the independence working. This large high intensity magnetic feature, is a composed of two separate northwesterly trending magnetic features. The body encompasses the historic Independence working.




Anomaly mHA

## DISCUSSION OF RESULTS con't

Anomaly mHB is in the south eastern corner of the survey area. This northeasterly trending magnetic high appear in the valley bottom and is potentially offset by a northeasterly trending structure from the southeastern portion of Anomaly mHA.

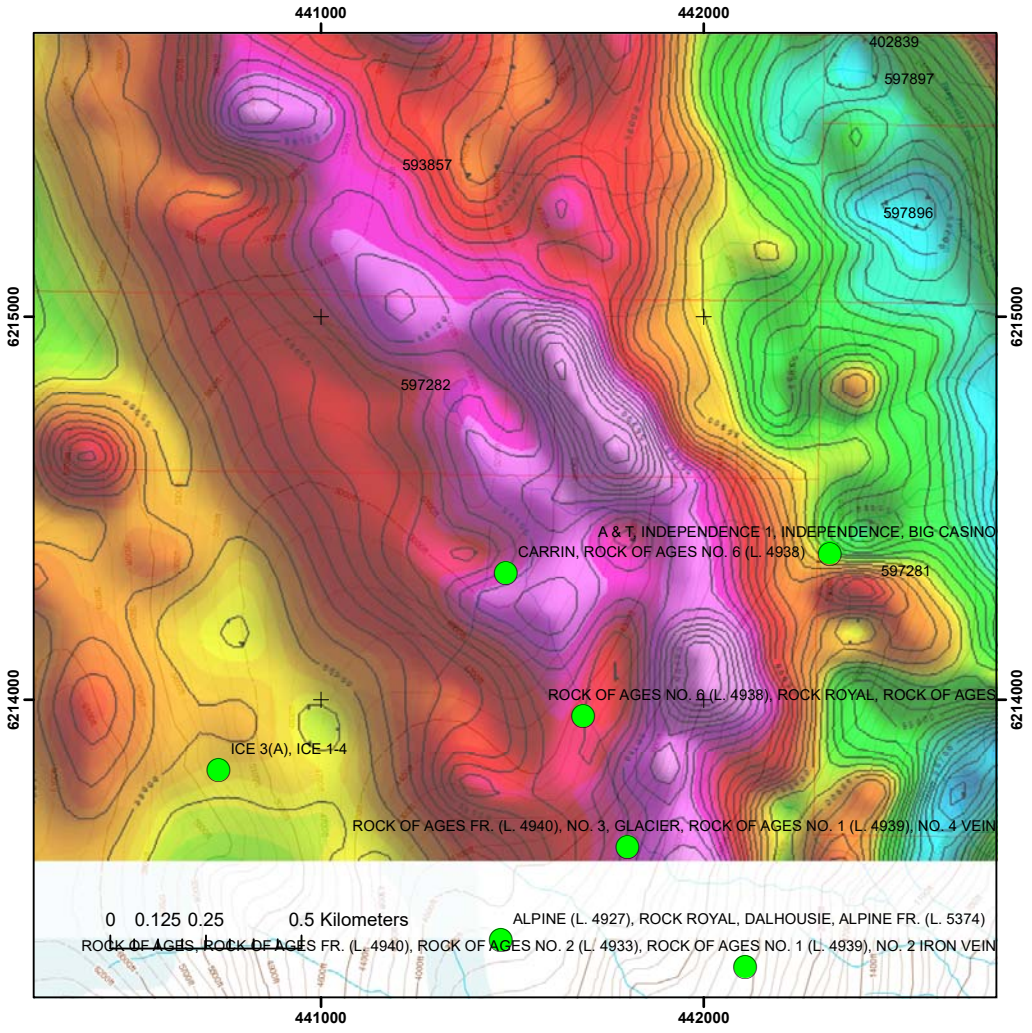



Anomaly mHB

## DISCUSSION OF RESULTS con't

Anomaly mHC is large northwesterly trending magnetic unit. This unit is likely the composite response of a series of smaller northwesterly trending magnetic units.

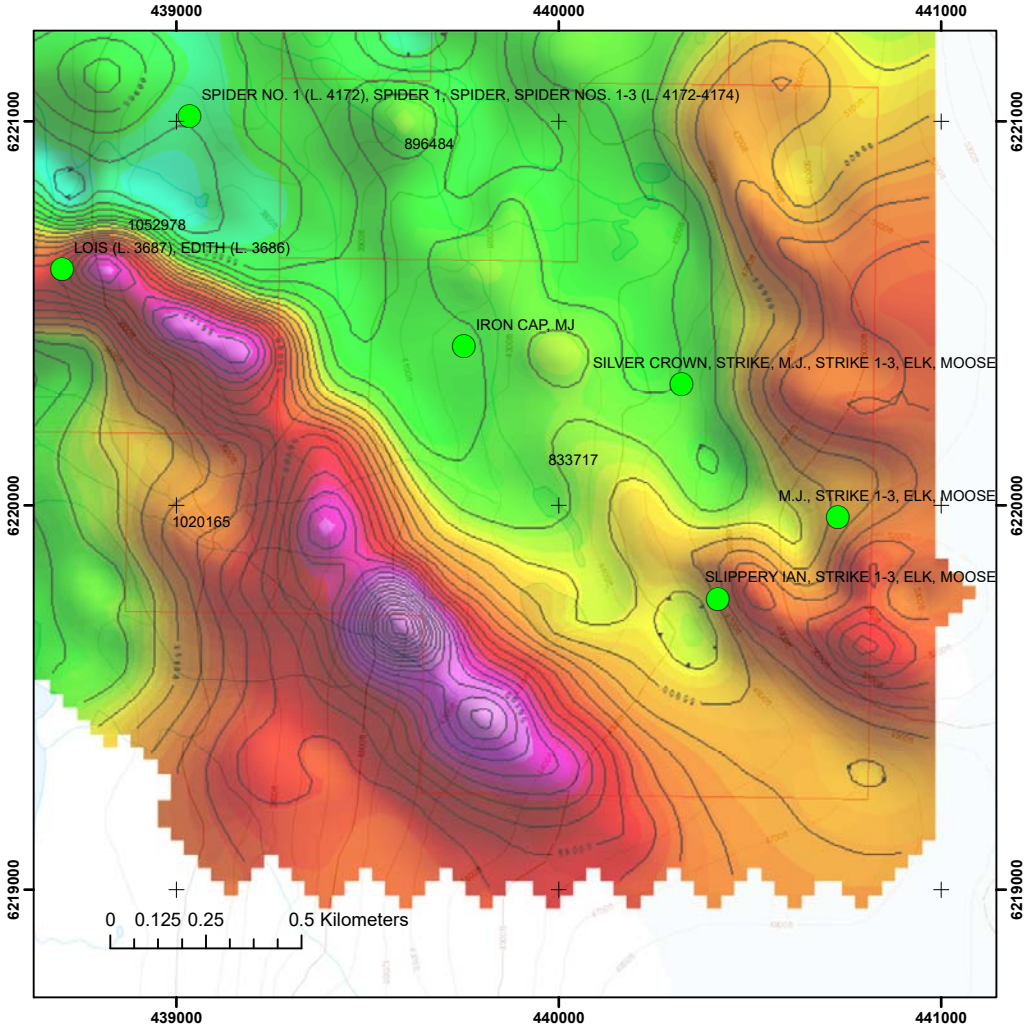
In the southern portion of the feature a series of mineral occurrences appear to align with the magnetic trend.




Anomaly mHC

## DISCUSSION OF RESULTS con't

Anomaly mHD is a linear magnetic high located in the northwestern portion of the survey area, likely associated with a granitic body observed at the Lois showing.




Anomaly mHD

## SUMMARY, CONCLUSIONS & RECOMMENDATIONS.

In September of 2017, Peter E. Walcott & Associates Limited undertook airborne magnetic surveying for Richard Billingsley over his Independence Property.

The survey was designed to provide a detailed modern magnetic coverage to aid with exploration proximal to known areas of mineralization.

The survey identified several areas of interest, which warrant additional follow-up. Prior to additional field work a detailed compilation of all historic data should be undertaken. This information should be reviewed with the results of the 2017 airborne magnetic survey to aid in target selection for additional ground work.

**Respectfully submitted,**

**PETER E. WALCOTT & ASSOCIATES LTD.**

**Alexander Walcott, B.Sc.**
**Geophysicist**

**Peter E. Walcott, P.Eng.**
**Geophysicist**

**Coquitlam, B.C.**

**April 2018**

# APPENDIX I

## COST OF PROJECT.

Peter E. Walcott & Associates Limited undertook the survey on a daily rate of $3150.00 per day.

A mobilization cost of $1,000.00 and helicopter time of $15,725 was also incurred including ferry time from Smithers to Stewart. Thus the total cost of services rendered was $19,875.00

## PERSONNEL EMPLOYED ON PROJECT.

| Name | Occupation | Address | Dates |
|---|---|---|---|
| Peter E. Walcott | Geophysicist | Unit 111- 17, Fawcett Rd. Coquitlam, B.C. V3K 6V2 | |
| Alexander Walcott | " | " | September 7th -9th, 2017 |
| Pierre Bernier | Silver King Helicopters | | September 8th, 2017 |

## CERTIFICATION.

I, Alexander Walcott, of 38-181 Ravine Dr., Port Moody, British Columbia, hereby certify that:

1. I am a graduate of the University of Alberta with a B.Sc. Earth Sciences Major, with a Physics Minor.

2. I have been active in mineral exploration for the past 20 years.

3. I am currently employed by Peter E. Walcott & Associated Limited.

4. I hold no interest, direct or indirect, in the property, nor do I expect to receive any.

**Alexander Walcott, B.Sc.**

**Coquitlam, B.C.**
**April 2018**

**CERTIFICATION.**

I, Peter E. Walcott, of 605 Rutland Court, Coquitlam, British Columbia, hereby certify that:

1. I am a graduate of the University of Toronto in 1962 with a B.A.Sc. in Engineering Physics, Geophysics Option.

2. I have been practicing my profession for the last fifty two years.

3. I am a member of the Association of Professional Engineers of British Columbia and Ontario.

4. I hold no interest, direct or indirect, in the property, nor do I expect to receive any.

**Peter E .Walcott, P.Eng.**

**Coquitlam, B.C.**
**April 2018**

## REFERENCES.

Alldrick, D, Bulletin 85- Geology and Metallogeny of the Stewart Mining Camp, Northwestern British Columbia,1993

440000 442000 444000

6222000 6220000 6218000 6216000 6214000

052978
896484
833717
1020165
1044473
593872
584059
600001
593858
593875
402839
593857
597897
597896
597282
597281

Champion Creek
American Creek
Lyddon Creek
Fitzgerald Creek
Bear River
Bear River Ridge
Mount Bunting

Scale 1:10000
200 0 200 400 600
(meters)
WGS 84 / UTM zone 9N

RICHARD BILLINGSLEY

**AIRBORNE MAGNETIC SURVEY**
**CLAIM AND LOCATION MAP**

INDEPENDENCE PROJECT
STEWART AREA, BRITISH COLUMBIA
SEPTEMBER 2017

***PETER E. WALCOTT & ASSOCIATES LIMITED***

440000
442000
444000
6222000
6220000
6218000
6216000
6214000
T10070 N
T10080 N
T10090 N
T10060 N
T10100 N
T10110 N
T10120 N
T10130 N
T10140 N
T10050 N
T10040 N
T10030 N
T10020 N
T10010 N
T10000 N
L180 E
L190 E
L200 E
L210 E
L220 E
L230 E
L240 E
L250 E
L260 E
L270 E
L280 E
L10 E
L20 E
L30 E
L40 E
L50 E
L60 E
L290 E
L300 E
L310 E
L320 E
L330 E
L340 E
L350 E
L360 E
L370 E
L380 E
L390 E
L400 E
L410 E
L420 E
L430 E
L440 E
L450 E
L460 E
L470 E
L480 E
L490 E
L500 E
L510 E

56141.7
56094.7
56069.9
56050.9
56035.8
56020.5
56005.2
55991.1
55978.9
55968.0
55957.1
55947.5
55937.4
55927.4
55917.6
55908.0
55899.2
55891.1
55884.4
55878.1
55871.5
55864.2
55857.6
55851.3
55843.4
55835.5
55828.0
55814.4
55796.2
55774.6
55752.2
55711.4
55662.3
55634.7
55614.1
55597.1
55572.8
55535.6
nT

Scale 1:10000
200 0 200 400 600
(meters)
WGS 84 / UTM zone 9N

RICHARD BILLINGSLEY

**AIRBORNE MAGNETIC SURVEY**
**CONTOURS OF TOTAL FIELD INTENSITY (nT)**

INDEPENDENCE PROJECT
STEWART AREA, BRITISH COLUMBIA
SEPTEMBER 2017

***PETER E. WALCOTT & ASSOCIATES LIMITED***

440000
442000
444000
6220000
6218000
6216000
6214000
T10070 N
T10080 N
T10090 N
T10060 N
T10100 N
T10110 N
T10120 N
T10130 N
T10140 N
T10030 N
T10020 N
T10010 N
T10000 N
L190 E
L200 E
L210 E
L220 E
L230 E
L240 E
L250 E
L260 E
L270 E
L280 E
L290 E
L300 E
L310 E
L320 E
L330 E
L340 E
L350 E
L360 E
L370 E
L380 E
L390 E
L400 E
L410 E
L420 E
L430 E
L440 E
L450 E
L460 E
L470 E
L480 E
L490 E
L500 E
L510 E
L10 E
L20 E
L30 E
L40 E
L50 E
L60 E
L70 E
L80 E
1.416
1.170
1.018
0.904
0.810
0.729
0.657
0.591
0.531
0.473
0.419
0.368
0.318
0.270
0.223
0.177
0.131
0.086
0.042
-0.003
-0.048
-0.093
-0.138
-0.184
-0.231
-0.279
-0.329
-0.381
-0.435
-0.492
-0.553
-0.619
-0.691
-0.772
-0.866
-0.980
-1.131
-1.377
nT/m
Scale 1:10000
200 0 200 400 600
(meters)
WGS 84 / UTM zone 9N

RICHARD BILLINGSLEY

**AIRBORNE MAGNETIC SURVEY**
**CALCULATED VERITICAL DERIVATIVE**

INDEPENDENCE PROJECT
STEWART AREA, BRITISH COLUMBIA
SEPTEMBER 2017

***PETER E. WALCOTT & ASSOCIATES LIMITED***