



BC Geological Survey
Assessment Report
38185



Ministry of Energy and Mines
BC Geological Survey

ASSESSMENT REPORT
TITLE PAGE AND SUMMARY

TITLE OF REPORT [type of survey(s)] TOTAL COST
Geological and Geophysical Study on the West Property, Chemainus River area, Victoria Mining Division, BC \$2175.00

AUTHOR(S) David Bridge, P. Geo. SIGNATURE(S) *David Bridge*

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S) YEAR OF WORK 2019

STATEMENT OF WORK - CASH PAYMENT EVENT NUMBER(S)/DATE(S) 5729781 (2019/Feb/05)

PROPERTY NAME West Property

CLAIM NAME(S) (on which work was done) (1059624)

COMMODITIES SOUGHT Gold

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN

MINING DIVISION Victoria NTS (BCGS 092C100)

LATITUDE 48 ° 55 ' 27 " LONGITUDE 124 ° 09 ' 42 " (at centre of work)

OWNER(S)

1) David Bridge 2)

MAILING ADDRESS

1580-132B Street,
Surrey, BC V4A 6J2

OPERATOR(S) [who paid for the work]

1) David Bridge 2)

MAILING ADDRESS

1580-132B Street
Surrey, BC V4A 6J2

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

Pyritic-gold quartz veins formed by stress and strain refraction from forces developed from the subduction zone during second boiling of a possible subsurface Early to Middle Jurassic Island intrusion

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS 17125, 19618

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)		1059624	\$1000
Ground			
Magnetic <i>Ground Magnetic Interpretation 19/ha</i>			
Electromagnetic <i>→</i>		1059624	\$ 1175
Induced Polarization <i>UCFIRM, 1/4 top. 19/ha</i>			
Radiometric _____			
Seismic _____			
Other _____			
Airborne _____			
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			\$2175.00

David Bridge

1580-132B Street, Surrey, BC V4A 6J2

Geological and Geophysical Study on the West Property, Chemainus
River area, Victoria Mining Division, British Columbia

Trim 092C100

Latitude 48°55'27"North

Longitude 124° 09' 42" West

Program: September 30 to October 2, 2018

Author: David Bridge, P.Ge

1580-132B Street, Surrey, BC, V4A 6J2

Date: February 6, 2019

Summary:

The West Property is located on BCGS Map 092C100 and is roughly 34 kilometers west of Chemanius, British Columbia. The area of interest is at Latitude 48°55'27" North and Longitude 124°09'42" West. In the of Fall 2018 a geological and geophysical study was done on the property using ground magnetic and VLF-EM geophysics from assessment report 17125 with reference to gold soil assay results also published in the assessment report and a residual total field magnetic map from www.MapPlace2.gov.bc.ca.

The pyrite-quartz veins and pyritic chert on the property may of formed by shear/fault development due to stress and strain refraction of forces generated by the subduction zone to the southwest during second boiling and cooling of a subsurface Early to Middle Jurassic porphyritic granodiorite Island intrusion which is shown by a large residual total field magnetic anomaly centered in the southeast of the West property and the location of topographic gullies and structure forming arcs along the outside of the residual total field magnetic anomaly corresponding to magnetic and VLF-EM anomalies and gold soil anomalies.

Soil anomalies up to 1460 ppb Au occur along the trace of the intrusive – quartz vein structure marking the mineralized structure formed by stress and strain refraction during second boiling of the subsurface intrusion. The segments of either alternating intrusive dyke (magnetic anomaly 2200 to 2400 gammas) and mineralized pyritic quartz veins (4 to 6 units of VLF-EM anomalies in magnetic lows of 1750 to 1950 gammas) vary in length between cross faults displacing the mineralized structure eastwards as it passes from south to north and these segments are between 50 and 100 meters in length. Rock samples collected in 1987 assayed up to 0.251 oz/ton gold from this intrusive – quartz vein structure (Assessment report 17125), but unfortunately they are south of the present day West#1 mineral claim.

More detailed assaying of the mineralized intrusive – quartz vein structure is needed to test the gold potential of the area which soil assays assayed 1460 ppb gold as well good age dating is needed to determine the exact age of deformation, intrusion and mineralization on the West Property. If visible native gold quartz vein rock is found in the area of elevated gold soil samples, the rock can be sampled and the native gold quartz vein pieces could be sold to local high schools and universities as teaching aids in geology and economic geology courses.

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Introduction:

This report describes the geological and geophysical study that was conducted by the author on the West Property in late September and early October, 2018.

Location and Access

The West Property is located on BCGS map 092C100 and the area of interest is situated approximately at 48°55'27" N and 124°09'42" W. The Property is located in the Victoria Mining Division and is approximately 34 kilometers west of Chemainus, British Columbia (Figure 1).

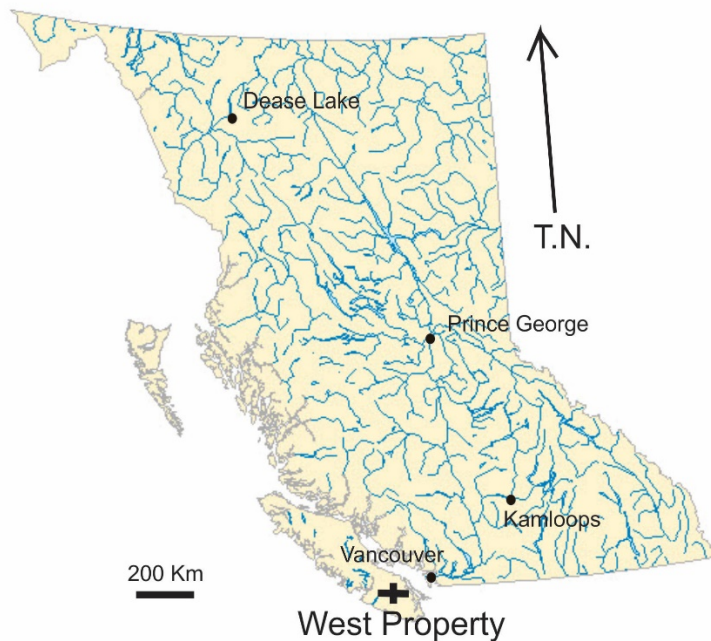


Figure 1. Location Map

Access to the property is via Copper Canyon Main logging road from Chemainus on Hwy 1 for approximately 35 km (Figure 2).

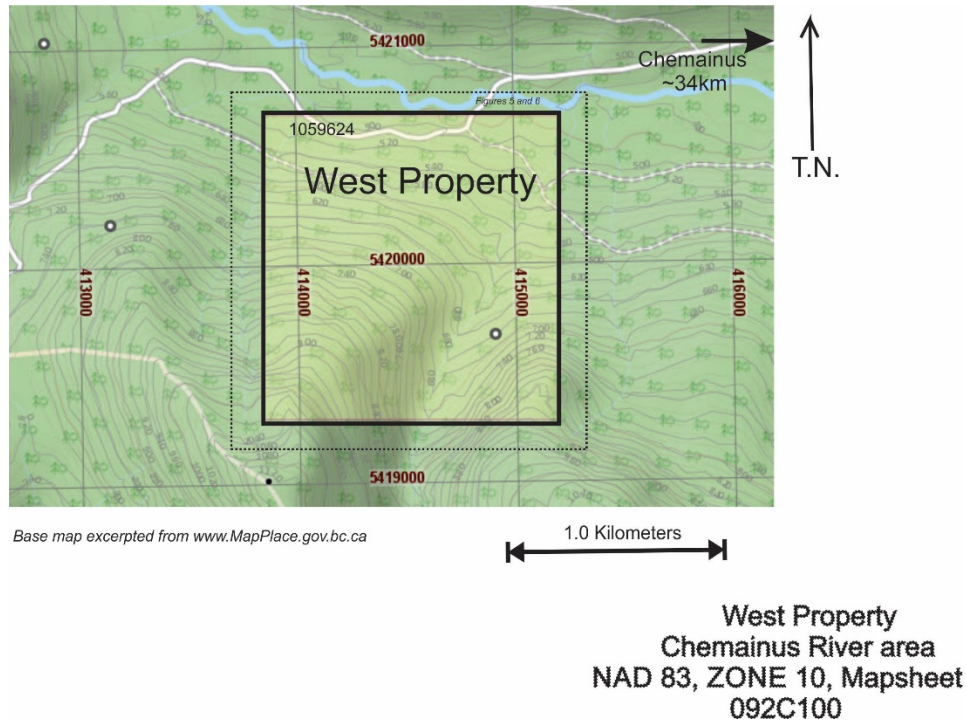


Figure 2. Topographical and Index map of the West Property excerpted from MapPlace2.gov.bc.ca.

General Setting, Climate and Local Infrastructure:

The West Property is located on the south side of the Chemainus River valley in the middle and lower reaches of Reynard Creek at elevations of 500 to 1050 meters with the key mineralization between 620 and 700 meters.

The topography of the property consists of a gentle to steep slopes above the north trending Reynard creek and has a second growth forest consists of hemlock and spruce and minor cedar which has been growing since the 1970’s and the late 1980’s at higher elevations. The weather consists of warm summers with cool winters and is generally snow free April to late November with heavy snow in the winter.

The property is located approximately 35 kilometers west of the Chemainus on Highway 1 which is the main business area in the region.

The West Property consists of one mineral claims totaling approximately 191.03 hectares and the geological and geophysical work was conducted on tenures 1059624 (Figure 3, Table 1).

Table 1: Mineral claim data

Title Number	Claim Name	Good To Date	Area (ha)
1059624	West#1	2021/Aug/30	191.03

The new expiry dates of the mineral claims are subject to the approval of the work contained in this report.

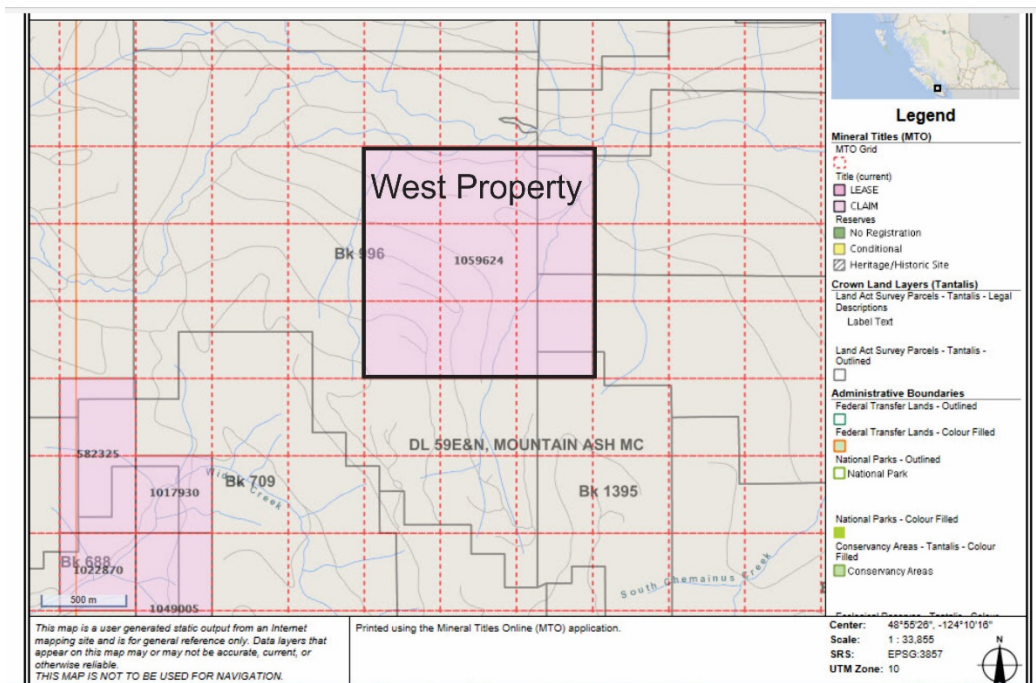


Figure 3. West Property mineral claim map

History and Previous Work

Soil sampling, chip rock sampling and VLF-EM and ground magnetic geophysics were done on the West Property in 1987 by Sierra Madre Resources Inc. (Assessment report 17125) and they discovered linear anomalous gold soil zones along possible minor northwesterly trending structures with soil assays up to 1460 ppb gold and chip rock samples assaying up to 12.07 gm/t gold and 3.77 gm/t silver over 0.61 meters of sheared diorite and 0.305 meters of 0.251 oz/ton gold of pyritic chert. The West Property area was again explored in 1989 by Wellington-Young Resources Ltd which conducted another soil sampling program and silt sampling program with limited success but did get a 10,000 ppb gold silt sample from the middle reaches of Reynard Creek (Assessment Report 19618). Since these two programs the property has been staked extensively with no recorded work done on the property

Regional Geology

The West property is nearly completely underlain by Early to Middle Jurassic Island diorite in the northern portion of the claim which has intruded a roof pendent of Mount Hall gabbro of Late Triassic in age in the southern portion of the claim. These two rock units are cut by a major gold quartz vein mineralized shear/felsic intrusive dyke structure trending along Reynard creek which may be the expression of a bounding fault to a subsurface intrusion of Middle Jurassic porphyritic granodiorite Island centered to the southeast of the West property which second boiled to form the mineralized pyritic- gold quartz veins along the structure (Figure 7).

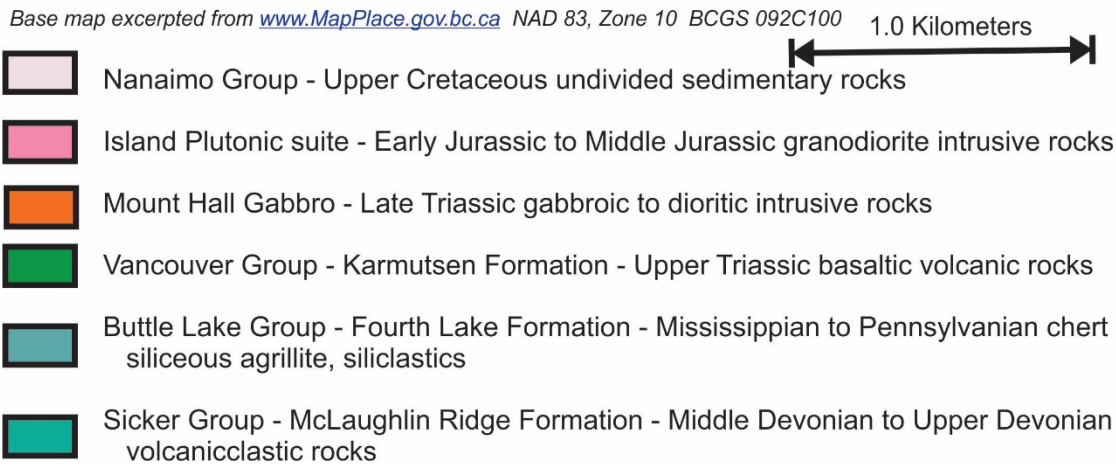
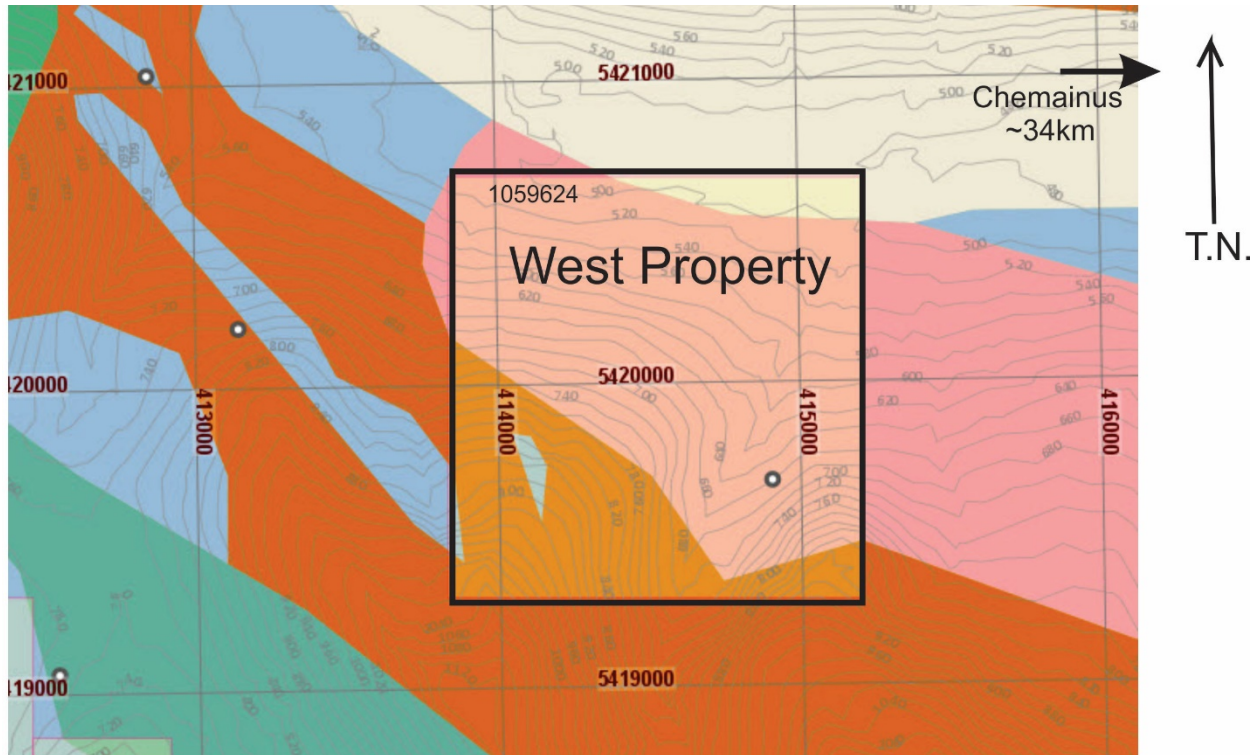


Figure 4: Regional Geology map of West Property excerpted from www.MapPlace2.gov.bc.ca

2018 Work Program:

Two partial days were spent by the author in late September and early October 2018 completing a geological and geophysical study of the West Property and partial days were spent in October completing more geological and geophysical studies (Figures 5 - 7). This study proved to be highly useful in understanding the geology and mineralization on the property.

Interpretation of Results:

The West Property is located on BCGS Map 092C100 and is roughly 34 kilometers west of Chemanius, British Columbia. The area of interest is at Latitude 48°55'27" North and Longitude 124°09'42" West. In the of Fall 2018 a geological and geophysical study was done on the property using ground magnetic and VLF-EM geophysics from assessment report 17125 (figures 6 and 7) with reference to gold soil assay results also published in the assessment report and a residual total field magnetic map from www.MapPlace2.gov.bc.ca (Figure 5).

The pyrite-quartz veins and pyritic chert on the property may of formed by shear/fault development due to stress and strain refraction of forces generated by the subduction zone to the southwest during second boiling and cooling of a subsurface Early to Middle Jurassic porphyritic granodiorite Island intrusion which is shown by a large residual total field magnetic anomaly centered in the southeast of the West property and the location of topographic gullies and structure forming arcs along the outside of the residual total field magnetic anomaly corresponding to magnetic and VLF-EM anomalies and gold soil anomalies.

Soil anomalies up to 1460 ppb Au occur along the trace of the intrusive – quartz vein structure marking the mineralized structure formed by stress and strain refraction during second boiling of the subsurface intrusion. The segments of either alternating intrusive dyke (magnetic anomaly 2200 to 2400 gammas) and mineralized pyritic quartz veins (4 to 6 units of VLF-EM anomalies in magnetic lows of 1750 to 1950 gammas) vary in length between cross faults displacing the mineralized structure eastwards as it passes from south to north and these segments are between 50 and 100 meters in length. Rock samples collected in 1987 assayed up to 0.251 oz/ton gold from this intrusive – quartz vein structure (Assessment report 17125) , but unfortunately they are south of the present day West#1 mineral claim.

Conclusion and Recommendations

More detailed assaying of the mineralized intrusive – quartz vein structure is needed to test the gold potential of the area which soil assays assayed 1460 ppb gold as well good age dating is needed to determine the exact age of deformation, intrusion and mineralization on the West Property. If visible native gold quartz vein rock is found in the area of elevated gold soil samples, the rock can be sampled and the native gold quartz vein pieces could be sold to local high schools and universities as teaching aids in geology and economic geology courses.

References:

Cukor, V., 1987. Sierra Madre Resources Inc., Harbey Mineral Claim, 1987 Exploration program, Assessment Report 17125, 64 pages.

Verzosa, R.C., 1988. 1988 Geochemical Survey and Geological Reconnaissance on the JR Mineral Claim, Assessment Report 19168, 30 pages.

Software and Websites used

Corel Draw

MS Windows, MS Word, MS Excel

www.MapPlace2.gov.bc.ca; www.MtOnline.gov.bc.ca,

Cost Statement:

Geological and geophysical Study Program (Partial days Sept. 30, 2018 and October 2, 2018)

David Bridge, (\$75/hour for 5.0 hours) \$375.00

Planning and post-processing and report and additional geophysical and geological interpretation
\$1800.00

Total \$2175.00

STATEMENT OF QUALIFICATIONS FOR David Bridge, P.Geo

I, David Bridge, hereby certify that:

I am a geologist residing at 1580-132B Street, Surrey, British Columbia, Canada.

I am a graduate of the University of British Columbia with a Bachelors degree in Geological Engineering (1990) and a Masters in geological engineering in (1994).

I am registered as a Professional Geoscientist with the Association of Professional Engineers and Geoscientists of British Columbia (APEGBC number 24944).

I did the geological and geophysical study on the West property in September and October, 2018.

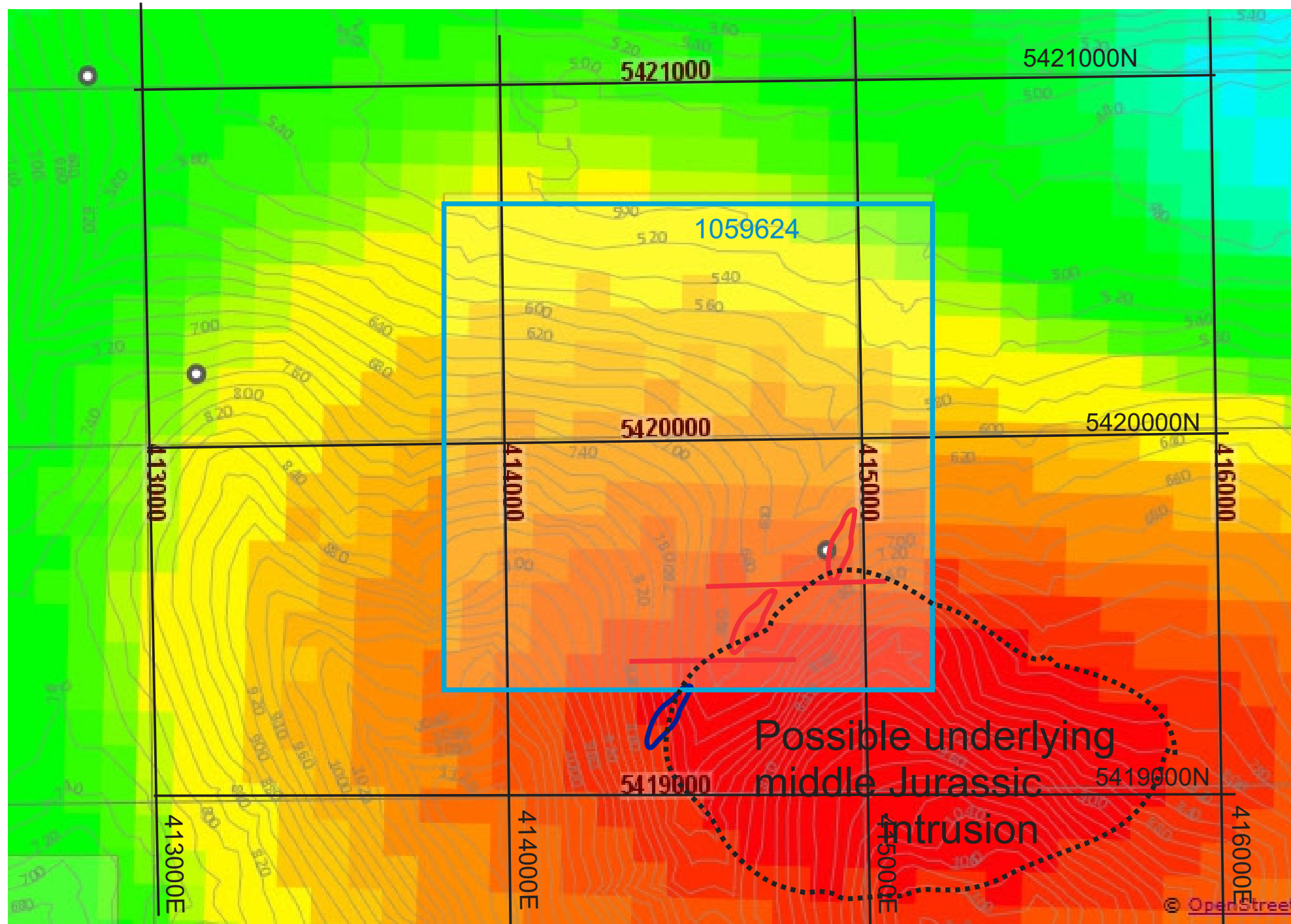
Dated at Surrey, BC

February 6, 2019




Respectfully submitted

"David Bridge"

David J. Bridge, P. Geo, MASc

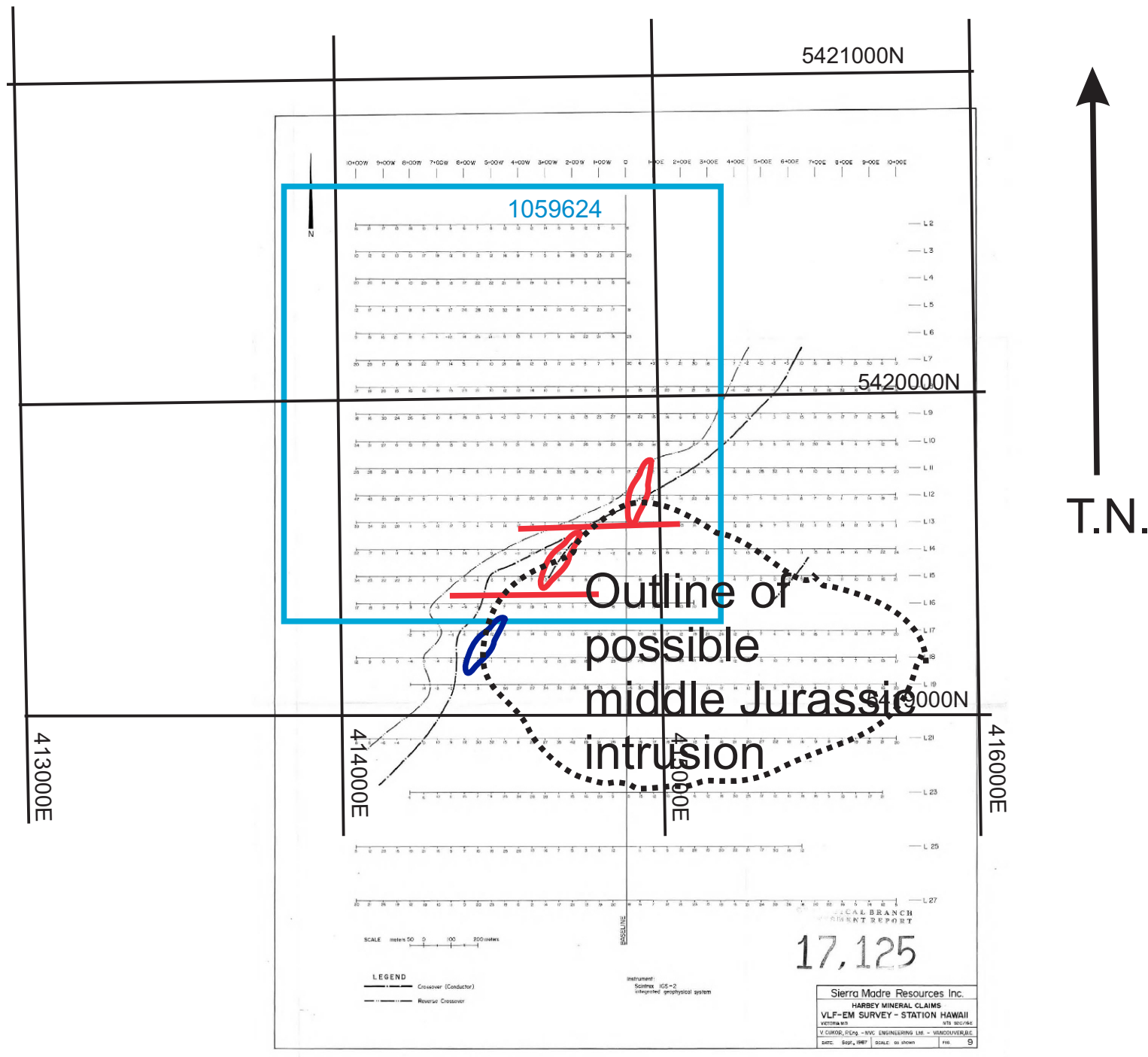





1.0 Kilometers

-  Possible cross fault
-  Possible magnetic intrusive dyke
-  VLF-EM anomalies related to gold mineralization

West Property
 Residual Total Field Magnetic
 map from www.MapPlace2.gov.bc.ca
 Chemainus River Area, BC
 BCGS map 092C100, NAD 83, Zone 10

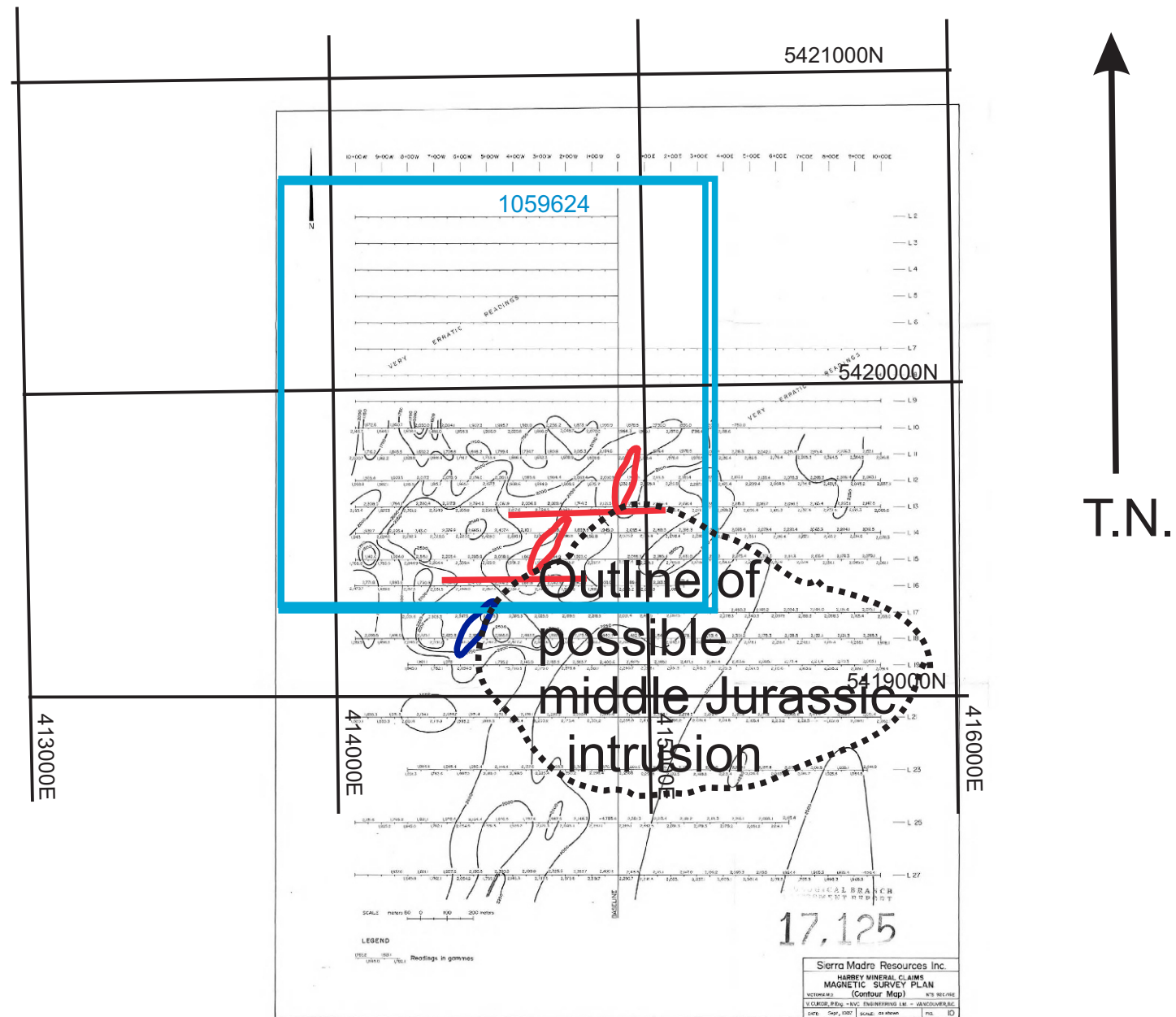
Figure 5 Drawn by: DJB February, 2019







-  Possible cross fault
-  Possible magnetic intrusive dyke
-  VLF-EM anomalies related to gold mineralization

West Property
 VLF -EM map from
 Assessment Report 17125
 Chemainus River Area, BC
 BCGS map 092C100, NAD 83, Zone 10

Figure 6 Drawn by: DJB February, 2019



-  Possible cross fault
 -  Possible magnetic intrusive dyke
 -  VLF-EM anomalies related to gold mineralization
- 1.0 Kilometers


West Property
 Ground Magnetic map from
 Assessment Report 17125
 Chemainus River Area, BC
 BCGS map 092C100, NAD 83, Zone 10

Figure 7 Drawn by: DJB February, 2019