

ASSESSMENT REPORT

PROSPECTING

ZAU 1-14 CLAIMS

24642

# Assessment Report on Prospecting

ZAU 1 - 14 Claims, Noke, Negro Creek Area

Fort Steele Mining Division  
British Columbia

N.T.S.      82F08 E, 82G05W  
Latitude    16° 00'  
Longitude   49° 27'

GEOLOGICAL SURVEY BRANCH ASSESSMENT REPORTS
DATE RECEIVED DEC 11 1976

## Owner

Tom Kennedy  
2290 DeWolfe Avenue  
Kimberley, B.C.  
V1A - 1P5

## Operator

Tom Kennedy

## Report By:

Tom Kennedy

GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

24,672

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# 1.00 Introduction

## 1.10 Location and Access

The ZAU 1 - 14 mineral claims are located approximately 15 km. south west of Cranbrook B.C. See location map (Figure 1) for location of claim block. The claims are located near the headwaters of Noke and Negro Creeks in the Moyie River drainage, which is in the Fort Steele Mining Division. The claims are on reference maps N.T.S. 82F08E, 82G05W, centered near Latitude 116° - 00' Longitude 49° - 27'.

The property is accessed from Highway 3 / 95, south west of Cranbrook, up the Moyie River logging road, then either by the Noke or Negro Creek logging roads. The distance traveled on logging roads is 13 km., all of the mineral property is accessible by foot.

## 1.20 History

This area has been held under tenure by majors, juniors, and individuals through the past 25 years.

## 1.30 Property

The ZAU 1 - 14 claims (Figure 2) are a contiguous block of claims owned by Tom Kennedy, 2290 DeWolfe Avenue, Kimberley, B.C.

Claim Name:	ZAU 1 - 340763	ZAU 2 - 340764	ZAU 3 - 340765
	ZAU 4 - 340766	ZAU 5 - 340767	ZAU 6 - 340768
	ZAU 7 - 340769	ZAU 8 - 340770	ZAU 9 - 340757
	ZAU 10 - 340758	ZAU 11 - 340759	ZAU 12 - 340760
	ZAU 13 - 340761	ZAU 14 - 340762	

Current Expiry Dates: Claims ZAU 1 - ZAU 8	September 28, 1996
Claims ZAU 10 - ZAU 14	October 2, 1996

## 1.40 Scope of Present Work

The objective of the 1996 prospecting was to provide ground confirmation of structural intersections indicated by previous geological mapping. Geology mapping in this area has been completed by private companies and the provincial government.

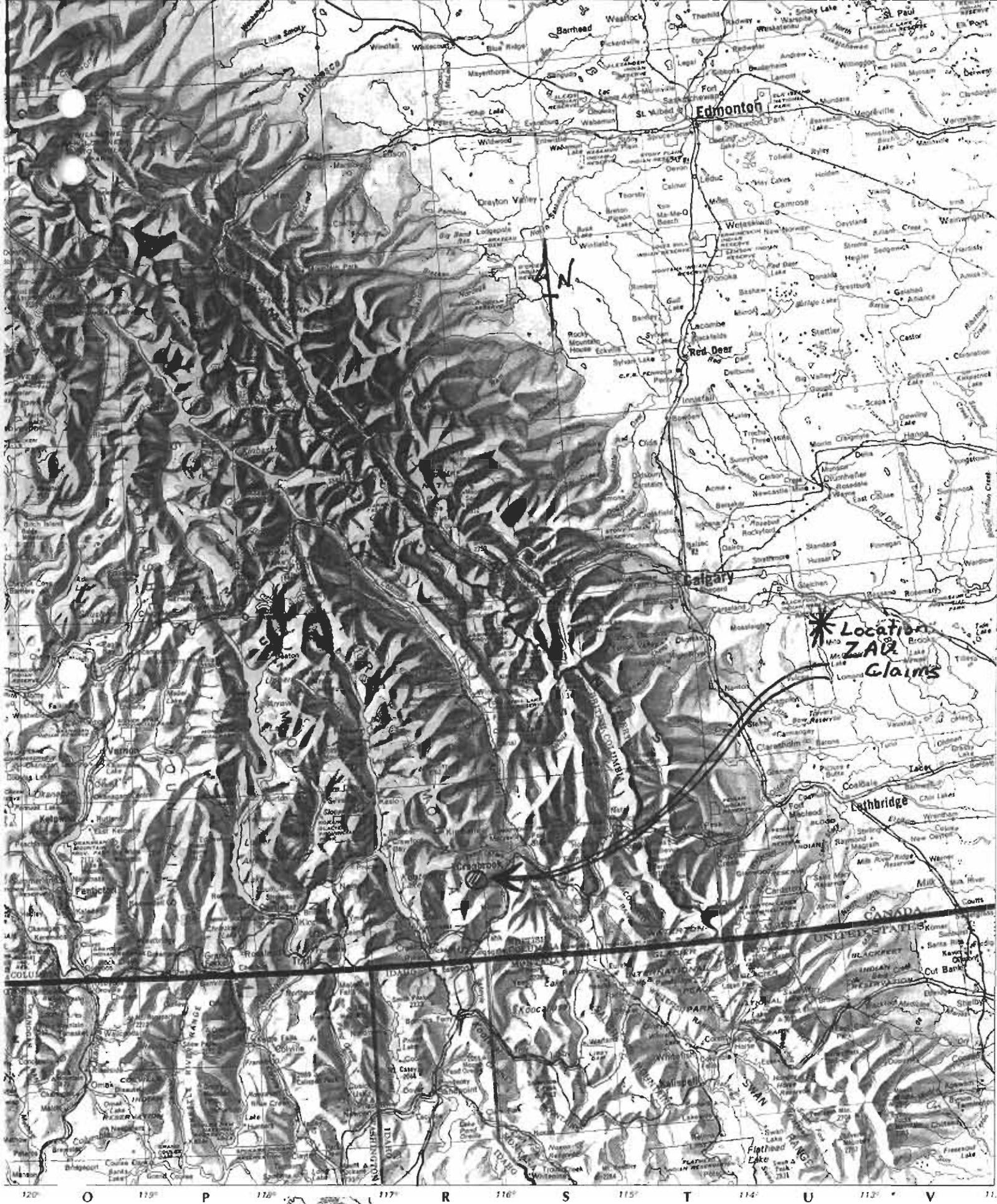


Figure # 1

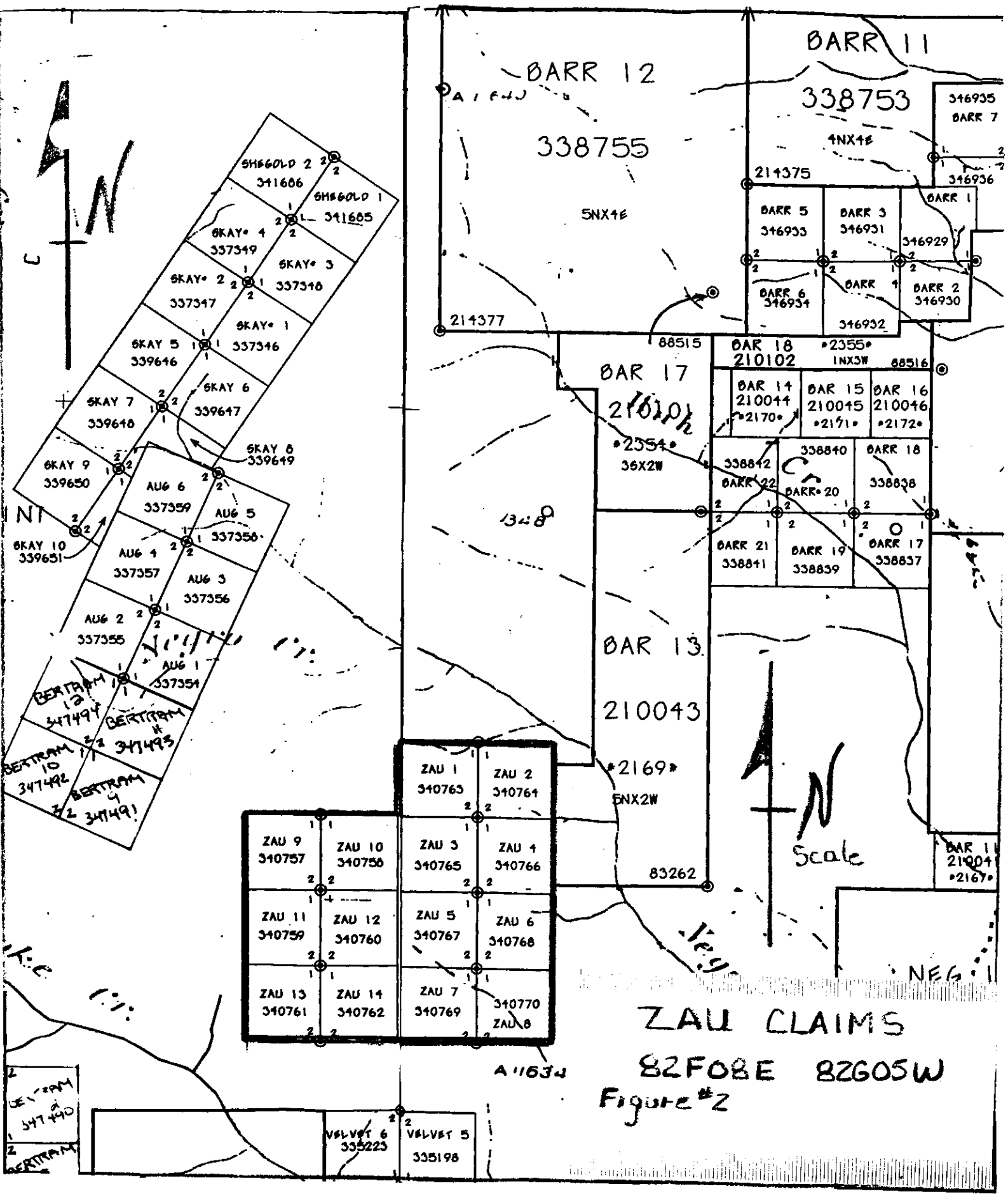
Kilometers  
Statute Miles

0 50 100 150 200

Km. Mi.

Scale 1:3,000,000

One centimeter represents 30 kilometers.  
One inch represents approximately 47 miles.  
Lambert Conformal Conic Projection



## 2.00      **Prospecting Report**

The ZAU claims overlay an area of fault and shear intersections within the middle aldridge. The major structure projected into the claim block is the north south trending McNiel Creek fault. The regional magnetics survey (1969, 1970) indicates a termination of a linear magnetic anomaly which accompanies the McNiel fault, this occurs on the ZAU claim block. The majority of bedrock on the property is found in the central part of the claim group. (ZAU 12, ZAU 5) Limited exposures of bedrock can be seen through - out the whole of the property. Five days of prospecting were completed on the ZAU claims during the fall of 1996

Five major features of interest exist on and adjoining the ZAU claim block.

- 1) Two fragmental
- 2) Abundant quartz veining
- 3) Narrow felsic intrusive
- 4) Magnetite hematite breccia float
- 5) Two Gabbro dykes

### **1) Fragmentals**

An extensive fragmental package of rock can be found near the central part of the ZAU claims. This fragmental is first recognized as a sericite, talc rich structure flanked by coarse grained sediments. This zone can be traced for over 200 meters in a north - east direction before it is lost in over - burden. Within this 25 meter wide zone areas can be found which contain altered rounded and angular clasts, some of which are in excess of 30 cm. in diameter. Of further interest is the existence of a thick middle aldridge marker package. It is located on the hanging wall of the fragmental.

The other fragmental is located on the north - east corner of the property in a small window of out -crop. This out - crop is along the projected strike of the large fragmental package. Though narrow, this alteration exists within a black thin - bedded package of chlorite rich rock. The clasts are small, rounded and angular with a matrix which contains iron pyrite and abundant bleds of amber sphalerite.

### **2) Quartz Veining**

Quartz veining is quite obvious in nearly all areas where out - crops exist. In most cases the veins are quite narrow but quite extensive across sheared zones. Some wider veins were noted, these reached widths in excess of 1 meter. All veins are of the milky bull quartz type, some have abundant iron pyrite and limonite, with or without chlorite while others have only rare

iron pyrite, These veins usually have chlorite, iron staining and some hematite coloration. Veins are predominantly north east trending with north west dips. One 20 cm. wide chlorite, pyrite rich vein was noted which had a north west to west strike, with a south west dip.

### **3) Narrow felsic intrusive**

A narrow felsic intrusive can be seen in an area of strong quartz veining near the eastern boundary of ZAU 11. The dyke is approximately 1 meter wide, green, grey in color with large feldspar crystals. It is completely clay altered and trends north - easterly and dips to the north - west.

### **4) Magnetite hematite breccia float**

Many small pieces of this type of float were seen around the eastern boundary of ZAU 5. This type of material is often seen along structures that contain gold mineralization.

### **5) Two Gabbro dykes**

The first Gabbro dyke exists approximately 50 meters east of the large fragmental package. This dyke strikes north easterly, is 20 meters in width and seemingly unaltered. Parallel to this dyke across 25 meters of highly sheared sediments another north easterly trending dyke can be seen. This dyke is also about 20 meters in width but shows obvious alteration. The dyke itself is magnetic with quartz, calcite veining common. There also is abundant epidote and manganese staining.

The majority of the bedrock trends in a north - east direction, the exception exists in the north west corner of the claims. Here bedrock can be found striking northwest.

## **3.00 Conclusion**

The 1996 prospecting program confirmed the existence of pervasive structural deformation, and alteration within the central part of the claim block. Most deformation indicates a strong north east control but the termination of the regionally significant magnetic anomaly, along with north west striking sediments on the ZAU 9 claim confirms north west structure. This provides for the intersection of two major structural trends within the heart of the property. Future work will include detail geologic mapping, rock and soil geo - chemistry along with geophysics.



## 4.00 Statement of Costs

Prospecting (Tom Kennedy) 5 days @ \$230.00 per day (includes vehicle)	\$1150.00
Report writing (Tom Kennedy) 1 day @ \$200.00 per day	\$ 200.00
Typing and Supplies	\$ 50.00
<b>Total Cost</b>	<b><u>\$1400.00</u></b>

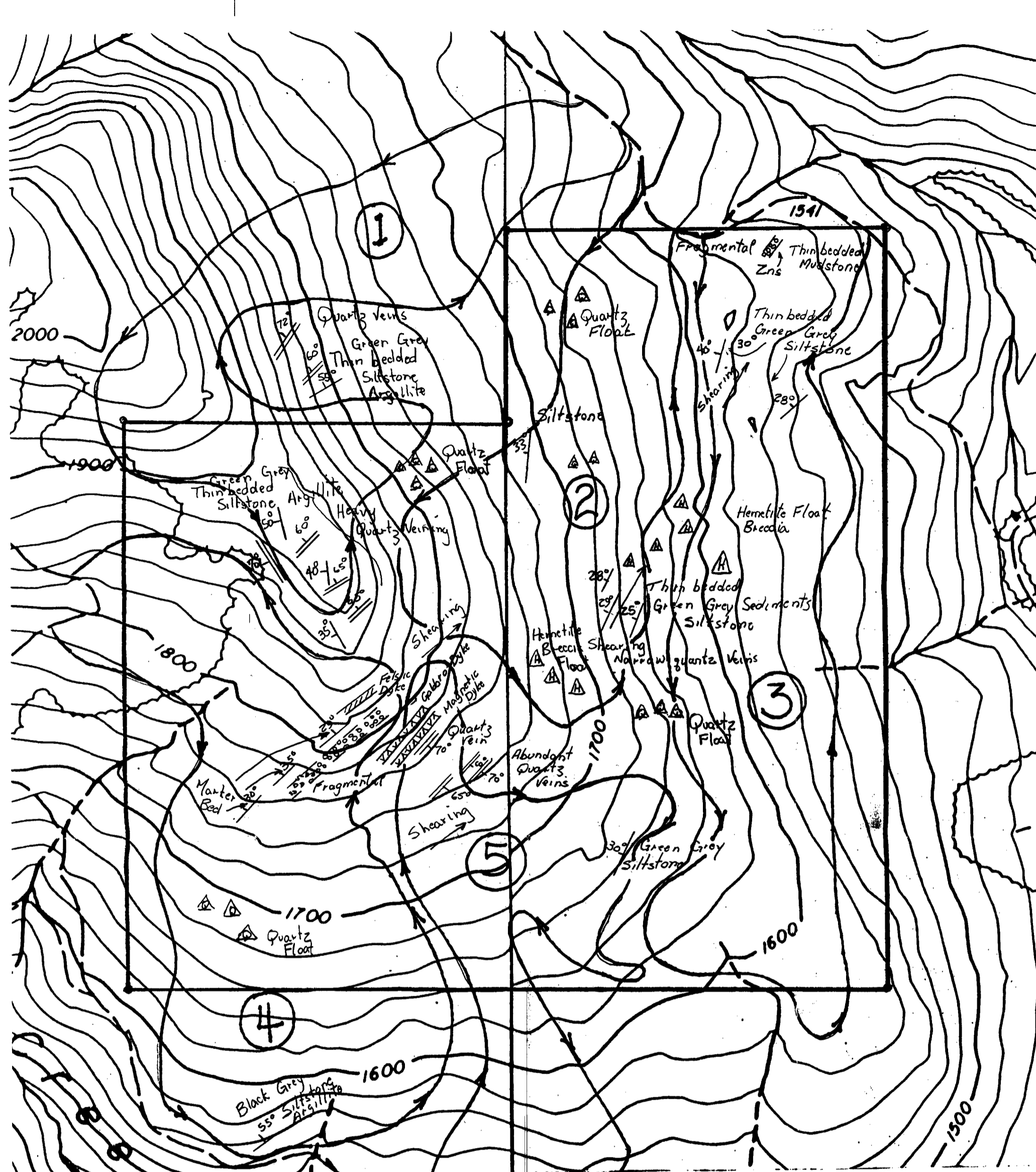
## 5.00 Statement of Qualifications

As the author of this report, I Tom Kennedy certify that:

1. I am an independent prospector residing at 2290 DeWolfe Avenue, Kimberley, B.C.
2. I have been actively prospecting in the east Kootenay district of B.C. for the past 8 years, and have made my living by prospecting for the past 4 years.
3. I have been employed as a professional prospector by major and junior mineral exploration companies.
4. I own and maintain mineral claims in B.C. and Have optioned numerous claims to various exploration companies.

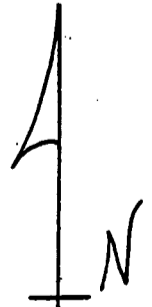
Signed

  
\_\_\_\_\_  
Tom Kennedy



PROSPECTING TRAVERSE MAP  
ZAU CLAIMS  
LEGEND

- Fragmental
- Gabbro intrusive
- Felsic intrusive
- Quartz vein
- Hemetite Magnetite Breccia Float
- Quartz Float
- Prospecting Routes



Scale 1:10,000

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ANNEAPOLIS, MARYLAND

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