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GEOCHEMICAL & PROSPECTING ASSESSMENT REPORT

on the

GOLD STAR CLAIM

WHITEMAN CREEK

VERNON MINING DIVISION, B.C.

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**12,854**

NTS: 82L/4E  
Latitude: 50°14' North  
Longitude: 119°41' West  
Owner: Brican Resources Ltd.  
Murray S. Morrison  
Consultant: K.L. Daughtry & Associates Ltd.  
Author: K.L. Daughtry  
Date: December 7, 1984

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SUMMARY

Brican Resources Ltd. holds an option to purchase the GOLD STAR claim west of Vernon, B.C. This property was staked in the autumn of 1983 and Brican carried out a geochemical evaluation of the gold potential in 1984.

A total of 5 Heavy Mineral stream sediment samples, 6 standard silt samples, 25 soil samples and 12 rock chip samples was collected and analyzed by various techniques for gold, and one or more of silver, arsenic, antimony, copper, lead, zinc, molybdenum, tungsten and barium.

The results of the geochemical surveys indicate the presence of two areas on the GOLD STAR property exhibiting anomalous gold values. Further exploration of these target areas is recommended.

A total of \$4,119.64 was expended on the 1984 exploration programme.

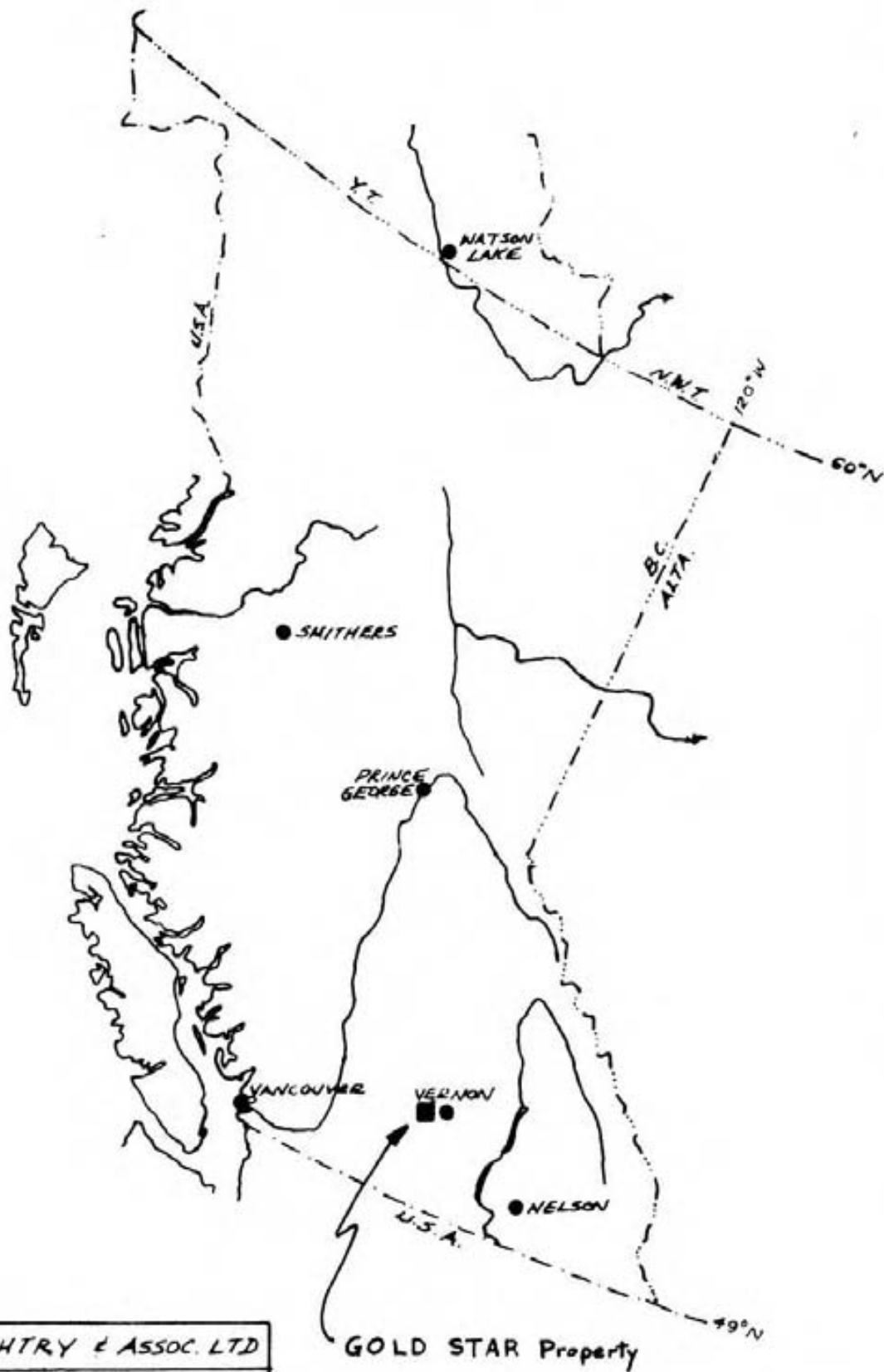
LOCATION, ACCESS, TOPOGRAPHY

The GOLD STAR property is at the head of the canyon on Whiteman Creek, a major eastward-flowing tributary of Okanagan Lake in the Vernon area of south-central British Columbia (Figure 1). The GOLD STAR claim is located mainly on the north side of the creek at the point where five tributaries join to form the main creek. Hudson Bay Creek joins Whiteman Creek near the southwest corner of the claim. The Legal Corner Post is on the south side of Whiteman Creek, 20 metres north of Whiteman Main logging road at an elevation of 1040 m (3400 ft), and 1300 m west of the third (upper) bridge.

The centre of the claim is at latitude  $50^{\circ}14'$  north and  $119^{\circ}41'$  west. The UTM references are from 30780 to 30970 east and from 556700 to 556940 north.

Access to the property is gained by driving south for 19 km on the Westside Road, from the junction with Highway 97, to the junction of the Whiteman Creek road, thence west for 20 km on this logging road to the third bridge over Whiteman Creek. At this point an old logging road follows the north side of the creek for 1.5 km to the east boundary of the claim. The nearest major centre is Vernon, 29 km east of the GOLD STAR property.

The property is on the steep south-facing wall of Whiteman Creek canyon. Elevations vary from 1040 metres (3400 ft) above sea level at the Legal Corner Post (SE corner) to 1550 m a.s.l. (5100 ft) at the northeast corner. The canyon walls are steep below 1400 m a.s.l. (4600 ft) but slopes are more gentle above this elevation.



K.L. DAUGHTRY & ASSOC. LTD.

BRICAN RESOURCES LTD.

LOCATION MAP  
GOLD STAR Property

Dec. 7, 1984

FIG. NO. 1

PROPERTY

The property consists of a single 20-unit claim, the GOLD STAR #1, Record Number 1593 in the Vernon Mining Division. The claim was staked by Murray S. Morrison on September 1-3, 1983 and recorded on September 8, 1983.

Brican Resources Ltd. holds an option to purchase the claim, and this company is the owner of record at the time of writing of this report.

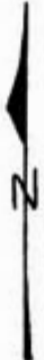
HISTORY

The earliest record of mining activity in the Whiteman Creek area is in 1898, when the Annual Report of the Minister of Mines refers to exploration on the KLONDYKE gold showings 3 miles west of Okanagan Lake on "White Man's Creek." Several unsuccessful attempts were made to mine placer gold on the creek between 1915 and 1954. The only recorded production was in the late 1930's when 3 ounces were reported.

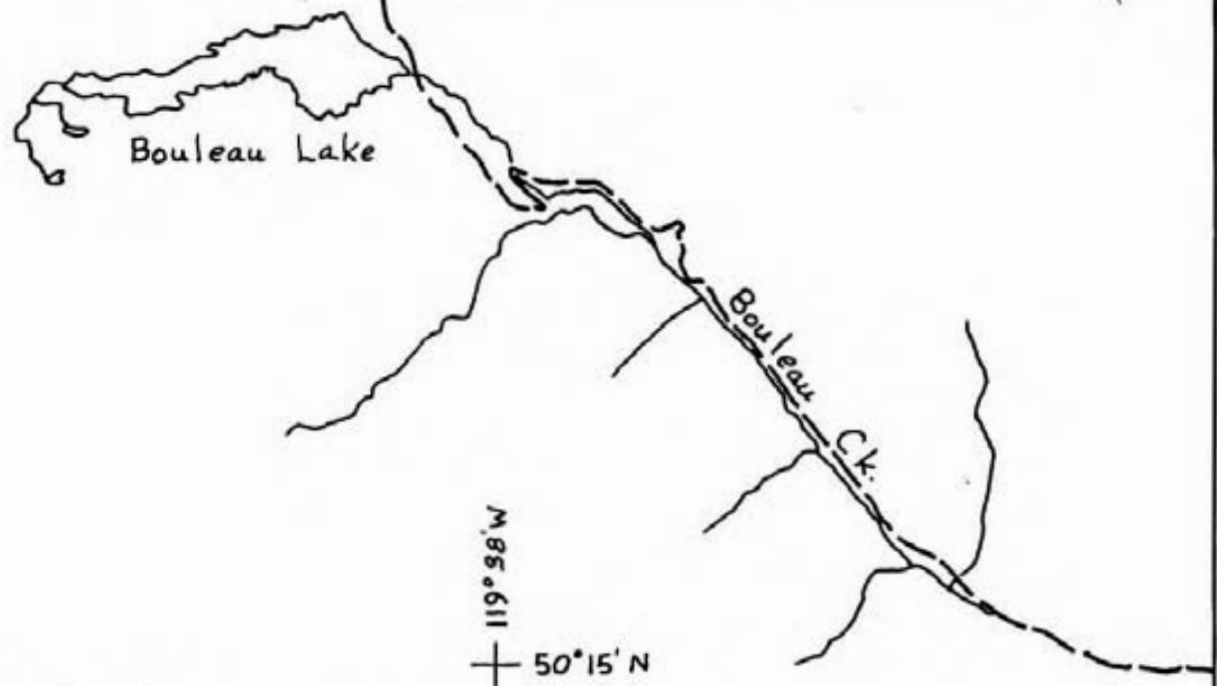
Alf Brewer of Vernon discovered gold in 1939 on what is now the BRETT property, immediately east of the GOLD STAR property.

From the 1960's to the present, various companies, including Noranda, Cominco, Canadian Occidental Petroleum, Kennco, Amax and others, have conducted extensive exploration programmes in the Whiteman Creek area for molybdenum, copper, uranium and gold (see REFERENCES).

There is no record of any substantial previous exploration on the ground now covered by the GOLD STAR #1 claim.

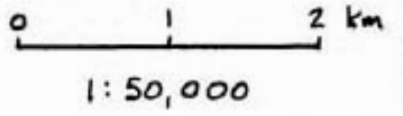


Tahaetkun Mtn.  
+ 6688'



119° 58' W  
+ 50° 15' N

GOLD STAR  
#1  
1593 (9)



Morrison L.

Hudson Bay  
Creek

Whiteman Ck.

K L DAUGHTRY & ASSOC. LTD.  
BRICAN RESOURCES LTD.

GOLD STAR #1 CLAIM  
INDEX MAP

B2L/4E

DEC 7, 1984 Fig. No 2

GENERAL GEOLOGY

The general geology of the Whiteman Creek area is shown on Preliminary Map by B.N. Church, 1980 (see REFERENCES).

A Triassic granitic pluton (predominantly quartz monzonite) intrudes sedimentary and volcanic rocks of Paleozoic and Triassic age. This pluton is in turn intruded by an Eocene syenite to monzonite plug which is well exposed in the canyon east of the GOLD STAR property.

Most of the area surrounding Whiteman Creek is underlain by a thick sequence of Eocene andesite, dacite and rhyolite overlying a basal clastic sedimentary unit. The Eocene alkaline plug is thought to be the intrusive equivalent of lavas in the upper part of the sequence.

Miocene plateau lava flows are the youngest rocks in the area and occur in scattered remnants near ridge crests.

The GOLD STAR claim is underlain by altered Triassic quartz monzonite, which intrudes older volcanic and sedimentary rocks, and which is in fault contact with altered and pyritic andesitic agglomerate and rhyolite from the lower part of the Eocene volcanic sequence.



WORK PROGRAMME

Brican Resources Ltd. initiated a geochemical evaluation of the GOLD STAR property in the spring of 1984.

Silt sampling carried out prior to the location of the GOLD STAR #1 claim indicated the presence of anomalous amounts of gold in drainages in the area now covered by the property. The current programme was designed to define the possible source of the anomalous gold values.

The initial phase of work consisted of heavy mineral sampling of the drainages in the south part of the claim. This was followed by standard silt sampling, contour soil sampling and a lithochemical survey.

Heavy Mineral Survey

Five heavy mineral samples were collected from stream sediments in Whiteman Creek and its tributaries in and near the southern part of the GOLD STAR #1 claim. The locations of the samples are shown in Figure 3.

Between seven and eight kilograms of -20 mesh sand were collected in plastic bags from about 100 kilograms of gravel at each sample site. The bulk samples were transported to the C.F. Mineral Research Laboratory in Kelowna, B.C., where they were washed, wet sieved, jigged and submitted to tetrabromoethane and dilute methylene iodide separations, followed by nine electromagnetic separations. The resultant -60 mesh heavy non-magnetic fractions were crushed, weighed, vialled and submitted to Nuclear Activation Services in Hamilton, Ontario for nuclear activation geochemical analysis for gold, arsenic, antimony, barium and tungsten. After completion of irradiation cooling, the concentrates were then forwarded to

Barringer Magenta Laboratories in Calgary, Alberta for geochemical analysis by the atomic absorption technique for silver, copper, lead and zinc.

The analytical results for each sample are plotted on Figure 3. Of the five samples, two contained highly anomalous amounts of gold. A sample taken from Whiteman Creek near the Legal Corner Post of the GOLD STAR #1 claim contained 8200 parts per billion gold. Two samples collected from the main forks of Whiteman Creek 900 metres further up stream contained 30 and 1900 ppb gold. The source of the anomalous gold in the first sample was thus indicated to be between the LCP and the forks of Whiteman Creek.

The second anomalous sample, containing 6400 ppb gold, was collected from the north fork of Whiteman Creek 550 m above the 1900 ppb sample. The source of this western anomaly is apparently on the south-facing slope of the valley above the sample point.

Analytical values for the other elements analyzed were not considered to be anomalous in any of the samples, with the possible exception of the 1.1% barium content in the western gold anomaly.

#### Silt Survey

Six samples of silt were collected from drainages in the vicinity of the western Heavy Mineral anomaly (Figure 3). The silt-sized fraction was collected in numbered wet-strength Kraft paper envelopes and submitted to Kamloops Research and Assay Laboratory Ltd. for standard geochemical analysis. The samples were dried, sieved and the -80 mesh fraction analyzed for gold, silver, arsenic and antimony. Gold content was determined by fire assay preparation followed by atomic absorption analysis, silver by hot acid digestion and atomic absorption

analysis, arsenic by aqua regia digestion and colorimetric analysis, and antimony by acid extraction and atomic absorption Hydride generation analysis.

Two of the samples contained slightly anomalous gold contents indicating a relatively local source for the anomalous heavy mineral sample. The silver, arsenic and antimony contents of the silt samples were not anomalous.

#### Soil Survey

In an attempt to discover the source area of the gold values in the two anomalous Heavy Mineral samples, a series of soil samples was collected at 100 m intervals along the 1190 m (3900 ft) contour on the north side of Whiteman Creek valley from a point west of the north fork of the creek to the eastern boundary of the property (Figure 3).

Samples were collected from the B horizon in numbered wet-strength Kraft paper bags and submitted to Kamloops Research & Assay Laboratory Ltd. for standard geochemical analysis for gold, silver, copper and lead. Gold analysis was by fire assay preparation and atomic absorption determination. Silver, copper and lead were determined by hot acid extraction and atomic absorption analysis.

Analytical values for each sample were plotted on Figure 3. Anomalous gold values occur in samples located upslope from both of the anomalous Heavy Mineral samples. None of the soil samples exhibited anomalous values for silver, copper or lead.

#### Lithogeochemical Survey

In an attempt to locate gold mineralization in place, twelve rock chip

samples were collected from altered and rusty outcrops in the areas of anomalous soil samples. The samples were submitted to Kamloops Research and Assay Laboratories Ltd. for analysis. After crushing to -100 mesh, the samples were analyzed by the same procedures as the soil samples for gold and silver.

The analytical results for the rock samples are plotted on Figure 3. No anomalous values were detected for either metal.

PROSPECTING

C. Lynes spent several days and K.L. Daughtry spent one day prospecting portions of the property in an attempt to discover the source of anomalous gold values in the Heavy Mineral samples. The property appears to be underlain by a large hydrothermally altered zone, possibly related to the Tertiary pluton to the east.

The Tertiary volcanic rocks and the Jurassic quartz monzonite are intensely fractured, bleached, pyritized, and in places, silicified. The most intense alteration is associated with areas of the most intense fracturing and faulting.

DISCUSSION AND CONCLUSION

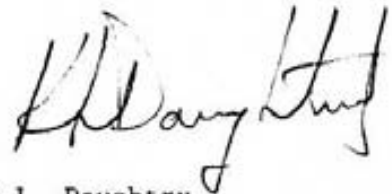
The various geochemical surveys conducted by Brican Resources Ltd. on the GOLD STAR property in 1984 have indicated the existence of two areas in which anomalous gold values occur in stream sediments and soils.

The eastern target area is on the steep south-facing slope above Whiteman Creek immediately west of the eastern boundary of the GOLD STAR #1 claim. Steep linear gulleys in this area suggest the presence of a north-trending zone of faulting. The western target area is upslope from the north fork of Whiteman Creek above the 1190 m contour.

RECOMMENDATIONS

Further detailed exploration of the two target areas is warranted. A combination of soil and rock sampling is recommended.

Respectfully submitted

A handwritten signature in cursive script, appearing to read 'K.L. Daughtry', written in dark ink.

K.L. Daughtry

Vernon, B.C.

December 7, 1984.

REFERENCES

- |                                |      |   |
|--------------------------------|------|---|
| Church, B.N.                   | 1980 | Revised Preliminary Map 37 British Columbia<br>Ministry of Energy, Mines and Petroleum<br>Resources                     |
| Dawson, James M.               | 1983 | Report on Brett Claims for Huntington Resources<br>Inc.   |
| Fipke, C.E.                    | 1983 | Report on Heavy Mineral Sampling on Brett<br>Claims for Huntington Resources Inc.                                       |
| Macdonald, Colin C.            | 1975 | Geology and Geochemistry Report on Whit<br>Claims for Canadian Occidental Petroleum Ltd.<br>Assessment Report No. 5692  |
| Macdonald, Colin C.            | 1977 | Geology and Geochemistry Report on Whit Claim<br>for Canadian Occidental Petroleum Ltd.                                 |
| Mehner, D.T.                   | 1981 | Assessment Report on Soil and Rock<br>Geochemistry Survey and Geological Mapping<br>on Lock Claims                      |
| Osatenko, M.J.                 | 1980 | Assessment Report Geology and Soil<br>Geochemistry on Loch Claims   |
| Stevenson, R.W.                | 1978 | Silt, Soil & Rock Geochemical Investigations<br>on Whiteman No. 1 Group, Vernon Mining Division                         |
| Wilmont, A.D.                  | 1983 | Report on The Brett No 1 and 2 mineral claims<br>for C. Brett   |
| Woodcock, J.R.                 | 1979 | Geology, Geochemistry, Geophysics Report on<br>Whiteman claims for Essex Minerals Company<br>Assessment Report No. 7397 |
| Woodcock, J.R.<br>Gorc, Dennis | 1980 | Whiteman Creek Drill Project for Essex<br>Minerals Co. Assessment Report No. 8146                                       |



STATEMENT OF COSTS

## Professional Services

K.L. Daughtry - rock sampling May 23, 1984 1 day @ \$300/day	\$300.00	
Supervision and report writing Dec. 7, 10, 1984 2 days @ \$300/day	600.00	
W.R. Gilmour Topographic Survey preparation of base map March 31, 1984 1 day @ \$250/day	<u>250.00</u>	\$1150.00

## Labour

Heavy Mineral Sampling- Jesmex Developments Ltd. May 4,5, 1984 2 days @ \$175/day	350.00	
Prospecting C. Lynes June 4,7,19, 1984 3 days @ \$115/day	345.00	
K.L. Daughtry June 18, 1984 1 day @ \$300/day Soil Sampling C. Lynes June 5,8, 1984 1.5 days @ \$115/day	300.00  <u>172.50</u>	\$1167.50

## Map Prints

97.93

## Transportation

4 x 4 vehicle 8 days @ \$40/day	320.00	
1036 km @ \$.40/km	414.40	
Gas	<u>161.80</u>	\$896.20

## Analysis

Heavy Mineral Analysis Sample Preparation	263.31	
5 Au, As, Sb, Ba @ \$19.00	95.00	
2 Au @ \$12.00	24.00	
5 Cu,Pb, Zn, Mo, Ag @ \$6.10	<u>30.50</u>	412.81

## Geochemical Analysis

Sample Preparation 25 soils @ \$.70	17.50	
13 rock @ \$2.50	32.50	
38 Au @ \$6.00	228.00	
38 Ag @ \$1.90	72.20	
25 Cu @ \$.90	22.50	
25 Pb @ \$.90	<u>22.50</u>	395.20

Total

\$4119.64

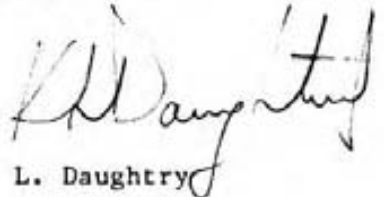
STATEMENT OF QUALIFICATIONS

I, KENNETH L. DAUGHTRY, of R.R. #4, Vernon, British Columbia, DO HEREBY CERTIFY that:

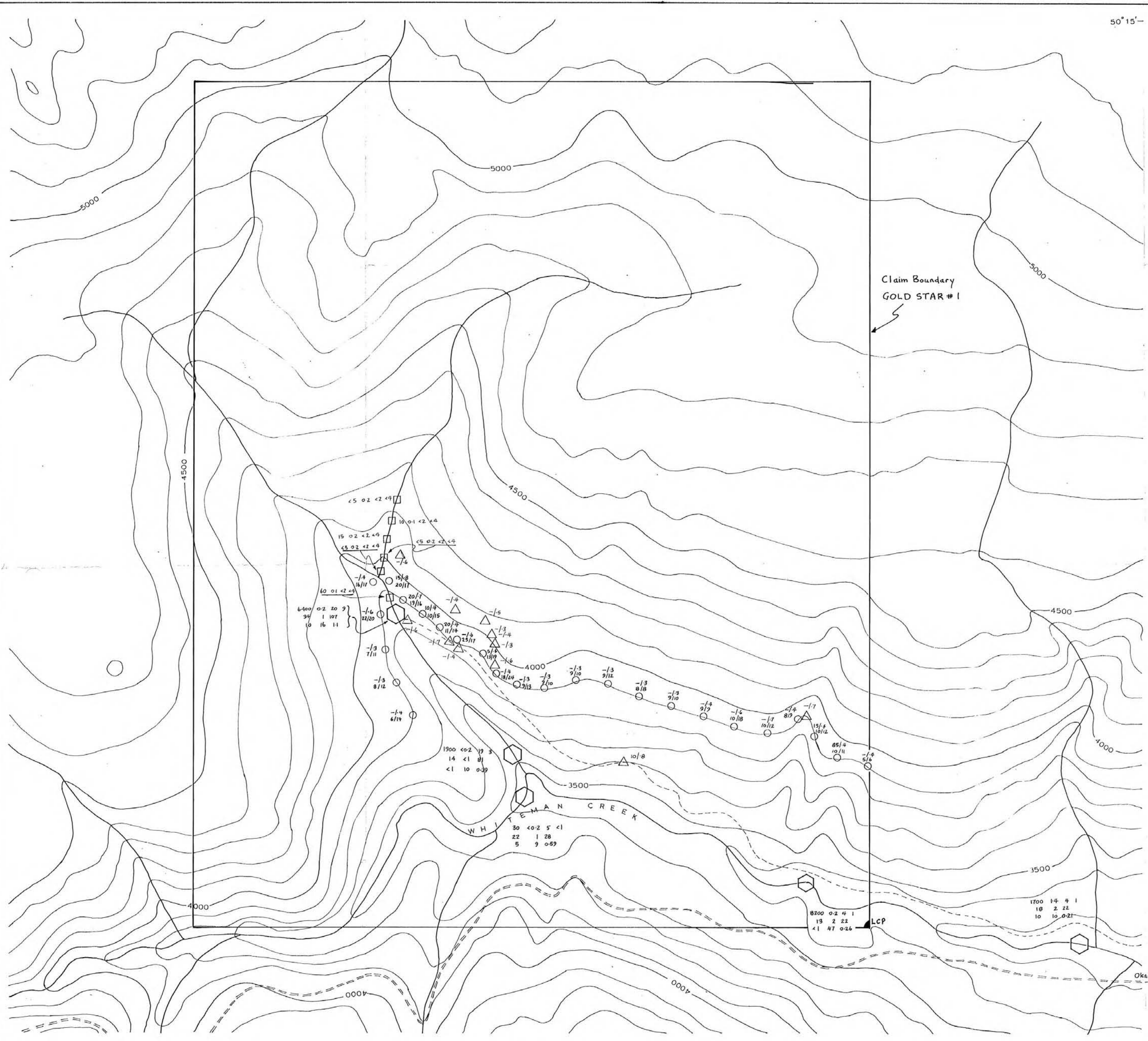
1. I am a Consulting Geologist in mineral exploration.
2. I have been practising my profession for nineteen years in Canada, the United States and Ireland.
3. I am a graduate of Carleton University, Ottawa, with a Bachelor of Science degree in Geology and Chemistry.
4. I am a member of the Associations of Professional Engineers of British Columbia, Ontario, and Yukon Territory, and a Fellow of the Geological Association of Canada.
5. This report is based upon knowledge of the GOLD STAR property gained from examination and sampling of the property, from the study of numerous assessment reports on the Whiteman Creek area and from supervision of the work herein described.
6. I am a director of Brican Resources Ltd., which company holds a beneficial interest in the property.

Vernon, B.C.

December 7, 1984.

  
K. L. Daughtry

50°15'



### Geochemical Results

#### Heavy Mineral Stream Sediment Sampling

site	1000	10	20	5	Au	Ag	As	Sb
	30	15	50		Cu	Pb	Zn	
	2	3	0.45		Mo	W	Ba	

#### Soil Sampling

site	10/0.6	Au/Ag
	20/10	Cu/Pb

#### Silt Sampling

site	15	0.3	<2	<4	Au	Ag	As	Sb
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#### Rock Sampling

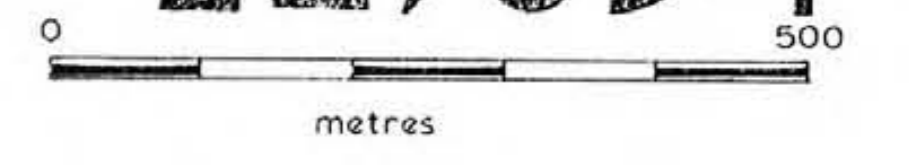
site	10/0.5	Au/Ag
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### ANALYTICAL RESULTS

All metal values are in parts per million except:  
 Au in parts per billion (1. = 1000 ppb)  
 Ba in percent

GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

**12,854**



K.L. Daughtry & Assoc. Ltd.		
BRICAN RESOURCES LTD.		
Geochemical Surveys		
GOLD STAR PROPERTY		
Vernon M.D.	B.C.	82L/4E
SCALE: 1:5000	DATE: December 7, 1984	
DRAWN BY: KLD	PROJ. NO.: 165	FIGURE: 3