

84-1424-13312  
12/85

GEOCHEMICAL and GEOLOGICAL

ASSESSMENT REPORT

ON THE

BEST PROPERTY  
(Best 1-4 claims)

LEMIEUX CREEK AREA

KAMLOOPS MINING DIVISION, B.C.

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**13,312**

NTS: 92P/9  
Latitude: 51°33' North  
Longitude: 120°13' West  
Owners: Brican Resources Ltd.  
Consultant: K.L. Daughtry and Associates Ltd.  
Author: W.R. Gilmour  
Date: February 18, 1985

TABLE OF CONTENTS

SUMMARY . . . . .Page 1

LOCATION, ACCESS, TOPOGRAPHY . . . . .Page 2

PROPERTY . . . . .Page 3

HISTORY . . . . .Page 3

GEOLOGY and MINERALIZATION . . . . .Page 4

GEOCHEMICAL SOIL SURVEY . . . . .Page 6

DISCUSSIONS and CONCLUSIONS . . . . .Page 8

RECOMMENDATIONS . . . . .Page 9

REFERENCES . . . . .Page 10

STATEMENT OF COSTS . . . . .Page 11

STATEMENT OF QUALIFICATIONS . . . . .Page 12

LIST OF ILLUSTRATIONS

Figure 1	Location Map	Following Page 1
Figure 2	Index Map 1:100,000	Following Page 2
Figure 3	Geology 1:5,000	In Pocket
Figure 4	Rock Sampling 1:5,000	In Pocket
Figure 5	Sketch Section 1:250	In Pocket
Figure 6	Sketch Section 1:250	In Pocket
Figure 7	Sketch Section 1:250	In Pocket
Figure 8	Gold in Soils 1:5,000	In Pocket
Figure 9	Arsenic in Soils 1:5,000	In Pocket
Figure 10	Antimony in Soils 1:5,000	In Pocket

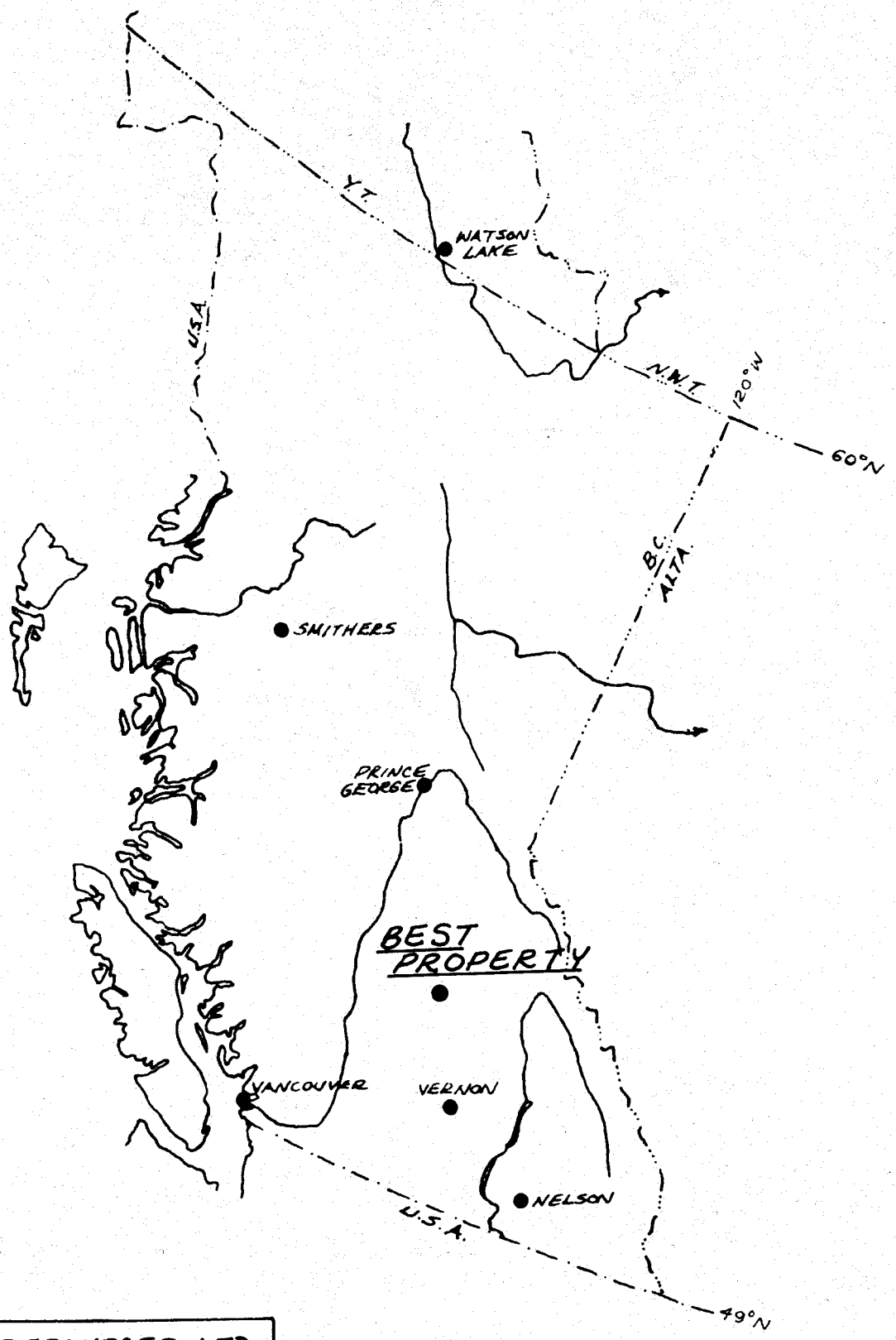
SUMMARY

The BEST property, owned 100% by Brican Resources Ltd., is located 17 km southwest of Clearwater, B.C. This report presents the results of exploration work carried out in 1984.

During 1984, a total of 360 soil samples and 90 rock samples were collected, and geological mapping was carried out.

Although anomalous values of gold, arsenic and antimony occur, no mineralization of economic grade was discovered.

No further exploration work is warranted at present.



BRIGAN RESOURCES LTD	
K.L. DAUGHTRY & ASSOC. LTD.	
LOCATION MAP BEST PROPERTY	
FEB. '85	FIG. NO. 1

LOCATION, ACCESS, TOPOGRAPHY

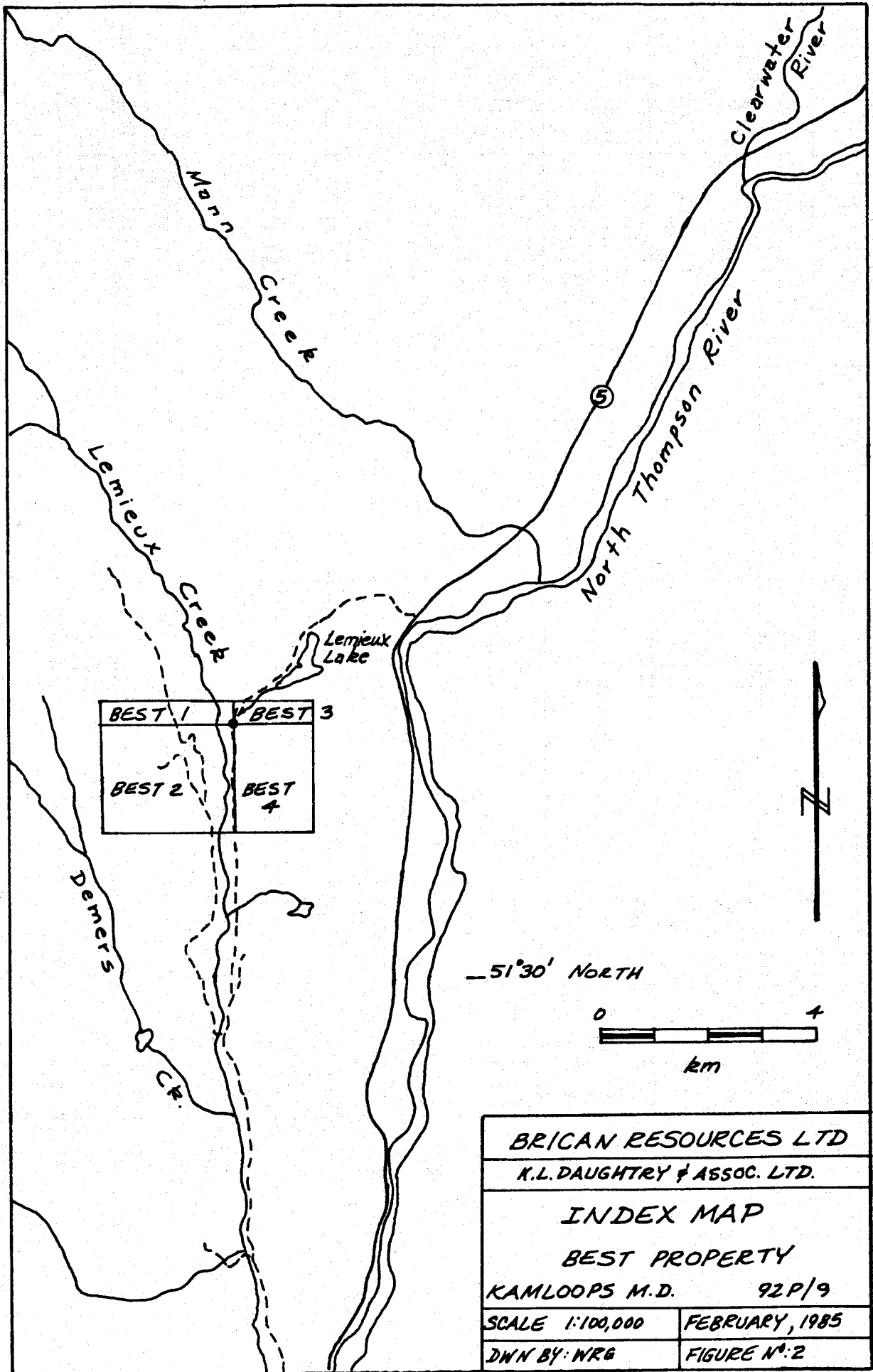
The BEST property is located astride Lemieux Creek 17 km southwest of Clearwater and 12 km north of Little Fort (Figures 1,2).

The National Topographic reference is 92P/9E and 9W and the coordinates of the centre of the claims are 51°33' north and 120°13' west. The Universal Transverse Mercator grid references are from 5711500 to 5714100 north and from 690400 to 694400 east. The Legal Corner Post, common to the BEST 1, BEST 2, BEST 3 and BEST 4 is located 1000 m southwest of the southwest corner of Lemieux Lake on the Transmountain Pipe Line and B.C. Hydro right-of-way at an elevation of 730 metres (2400 feet).

Access is provided by travelling north from Little Fort for 8.5 km and thence by four-wheel drive vehicle along the Transmountain Pipe Line and B.C. Hydro access road for 6 km. Access from Clearwater is provided by travelling south on Highway 5 for 14 km then southwest for 7 km via the Lemieux Lake Transmountain/B.C. Hydro access road. The nearest major centre is Kamloops, 96 km south of Little Fort on Highway 5.

Topography is typical of the Thompson plateau with gently rolling uplands cut by streams with moderate valley slopes. Elevations vary from a maximum of 1250 metres (4100 feet) above sea level to 610 metres (2000 feet) a.s.l. in the valley of Lemieux Creek.

Vegetation consists of dense forest of spruce, fir and cedar with patches of poplar and alder.



BRICAN RESOURCES LTD	
K.L. DAUGHTRY & ASSOC. LTD.	
INDEX MAP	
BEST PROPERTY	
KAMLOOPS M.D.	92P/9
SCALE 1:100,000	FEBRUARY, 1985
DWN BY: WRG	FIGURE N° 2

PROPERTY

The BEST property consists of 4 located metric grid claims, comprising a total of 40 units, in the Kamloops Mining Division (Figure 2). The claims were located between December 6 and 9, 1983, for Brican Resources Ltd. and recorded on December 14, 1983.

The following table lists the pertinent information on the claims.

<u>Claim Name</u>	<u>Record Number</u>	<u>No. of Units</u>	<u>Expiry Date</u>
BEST 1	5212	5	Dec. 14, 1987
BEST 2	5213	20	Dec. 14, 1987
BEST 3	5214	3	Dec. 14, 1987
BEST 4	5215	12	Dec. 14, 1987

The expiry dates are based on acceptance of this assessment report.

HISTORY

In the 1920's there was some placer activity on Lemieux Creek, which bisects the property. The source of the gold was not determined. No other activity has been recorded in the area of the BEST property.



GEOLOGY and MINERALIZATION

The eastern third of the BEST property is underlain by the Fennell Formation and the western portion by the Nicola Group (Figure 3). The major north-south strike-slip(?) Louis Creek Fault zone juxtaposes these major rock units. Minor Tertiary(?) felsic dykes cut the older rocks.

The Fennell Formation of Devonian(?) to Permian age is an allochthonous, oceanic terrane of metabasalt(2). The basalts are aphanitic, grey-green in colour and characteristically brecciated(1). The Nicola Group of Upper Triassic age consists of interlayered limestone, shale and siliceous argillite. The grey to black limestone beds generally range from 10 to 50 cm thick, although thicker beds do occur. The shales are generally black and fissile. The Nicola rocks trend north-northwest with a moderately westerly dip. Cleavage and minor folds were noted.

Orange-brown, usually well-altered and weathered dykes of limited extent cut the older rocks. Feldspar phenocrysts and flow(?) banding occur in these felsic rocks.

In the area of the BEST property the Louis Creek Fault is represented by an echelon faults creating an irregular contact. All rock units have been brecciated to some extent.

Rock samples were analysed for one or more of gold, arsenic and antimony (see Soil Geochemistry for analytical methods). A total of 90 rock samples gave values up to 0.072 oz/ton gold, >1000 ppm arsenic and 23 ppm antimony. Reconnaissance grab sampling (Figure 4) showed 2 of 32 rocks sampled were anomalous in gold; a feldspar porphyry dyke ran 135 ppb Au and a black limestone

ran 100 ppb Au. In the area of the main gold and arsenic soil anomaly more detailed sampling was carried out (Figures 5,6,7). Road-cut exposures were sampled in 2-metre chip samples.

The best mineralization encountered coincided with the soil anomaly although values in the soils and weathered rocks appear to be gold-enriched. High gold and arsenic values are associated with dark rusty, calcite and quartz-filled fractures in altered felsic dykes. The rusty fractures are vertical and strike east-west. The best zone (Figure 5), 18 m of 0.007 oz/ton gold, straddles a pyritic, altered, partially brecciated dyke filling a fault zone separating brecciated Fennell and Nicola rocks.

GEOCHEMICAL SOIL SURVEY

A soil sampling program was carried out along roads, topographic contours and flagged lines (Figures 8,9,10). The survey was confined to the east side of Lemieux Creek, straddling the Fennell/Nicola fault-controlled contact.

Samples, totalling 360, were collected in numbered Kraft paper bags and sent to Kamloops Research and Assay Laboratory Ltd. for analysis. Whenever possible the samples were collected from the B horizon, at approximately 15 cm depth. The -80 mesh fraction was subjected to hot aqua regia digestion and analysed by combined fire assay-atomic absorption (Au), by colorimetric (As) and by hydride generation (Sb) methods.

Table I

Table I summarizes the statistical distribution of the geochemical values.

	<u>Number</u>	<u>Detection limit</u>	<u>Range</u>	<u>anomalous</u>	
				<u>weak</u>	<u>strong</u>
Au ppb	360	5	<5-5100	30-75	>75
As ppm	360	2	<2->1000	130-400	> 400
Sb ppm	357	4	<4-29	6-20	> 20

A strong gold-arsenic anomaly straddles the transmission line and pipeline right-of-way and covers an area of about 200 m x 150 m. Values up to 5100 ppb Au occur in this area. The anomalous antimony values are concentrated about 400 m to the south between Lemieux Creek and the right-of-way.

Anomalous gold (390, 570 ppb) and arsenic values occur at the north end of the most easterly geochem line. The soil is talus-like, shedding from small

cliffs of greenstone breccia. No gold and only slightly anomalous arsenic values were obtained from these rocks.

A value of 855 ppb gold, from the southern portion of the claims, is probably related to slightly gold-bearing till and fluvial sands and gravels.

DISCUSSIONS and CONCLUSIONS

Anomalous gold, arsenic and minor antimony values occur in soils and rocks just east of Lemieux Creek, straddling the transmission line and pipe line right-of-way. The areal extent of the anomalous zone is approximately 200 m x 150 m. In places the soils appear to be enriched in gold and some apparent soil anomalies appear to be due to sampling of enriched talus.

Auriferous calcite-pyrite-quartz filled fractures occur in altered dykes and brecciated limestone, argillite and greenstone associated with major strike-slip faulting.

The tenor of mineralization and its location near Lemieux Creek appears to be sufficient to explain the anomalous gold, arsenic and antimony geochemistry in the heavy mineral fractions of the creek sediments.

Mineralization discovered to date is not of economic grade.

RECOMMENDATIONS

It is recommended that no further work be done on the BEST property at this time.

Respectfully submitted



W.R. Gilmour

Vernon, B.C.

February 18, 1985.

REFERENCES

1. Campbell, R.B. &  
Tipper, H.W. 1971 Geological Survey of Canada Memoir 363,  
Geology of Bonaparte Lake Map-Area, B.C.
  
2. Schiarizza et al 1983 B.C.M.E.M.P.R. Preliminary Map No. 53,  
Geology of the Barriere River-Clearwater  
Area.

STATEMENT OF COSTS

1.) Professional Services			
W.R. Gilmour 15 days @ \$250/day		\$3750.00	
Field Work-			
July 3-6, Sept. 23-25			
plus supervision, report writing			
K.L. Daughtry 3 days @ \$300/day		<u>900.00</u>	
supervision			\$4650.00
2.) Labour			
C. Lynes 11 days @ \$125/day		1375.00	
July 3-6, 20-23			
Sept. 23-25			
J. Graham 4 days @ \$175/day		700.00	
July 20-23			
J. Osterhagen 8 days @ \$150/day		<u>1200.00</u>	
July 3-6, 20-23			3275.00
3.) Transportation			
4 x 4 Jimmy 11 days @ \$40/day		440.00	
July 3-6, 20-23			
Sept. 23-25			
2235 km @ \$.20/km		447.00	
gas, oil		<u>158.00</u>	1045.00
4.) Accommodation, meals			485.00
5.) Geochemical analysis			
Soil-			
360 samples for Au,As,Sb, @ \$11.90		4284.00	
360 samples preparations @ \$.80		288.00	
Rock			
38 samples fo Au,As,Sb @ \$11.90		452.00	
5 samples for Au, As @ \$10.00		50.00	
47 samples for Au assay @ \$7.50		352.00	
90 sample preparation @ \$2.75		<u>247.00</u>	5673.00
6.) Maps, prints, secretarial			450.00
7.) Field supplies			<u>100.00</u>
	Total		\$15,678.00



Statement of Qualifications

I, W.R. GILMOUR of 13511 Sumac Lane, Vernon, B.C. V1B 1A1, DO HEREBY CERTIFY THAT:

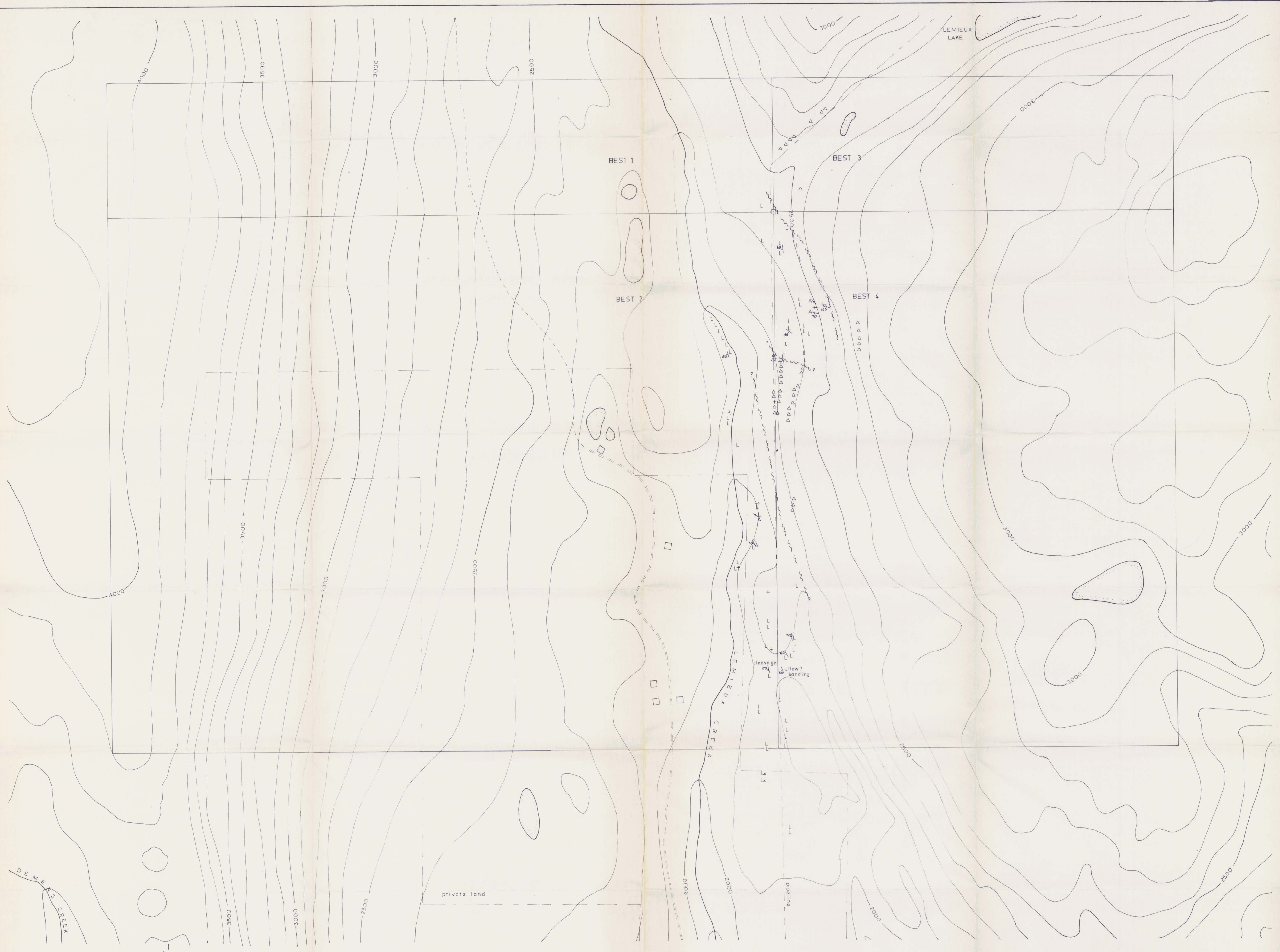
1. I am a Consulting Geologist in mineral exploration employed by W.R. Gilmour & Associates Ltd., Vernon.
2. I have been practising my profession in British Columbia, the Yukon Territory, and Nevada for 15 years.
3. I am a graduate of the University of British Columbia with a Bachelor of Science degree in geology.
4. I am a Fellow of the Geological Association of Canada and a member of the Society of Mining Engineers of the American Institute of Mining, Metallurgical and Petroleum Engineers.
5. This report is based upon knowledge of the BEST property gained from exploration work on the property.
6. I am a Director of Brican Resources Ltd., which owns the property.



W.R. Gilmour

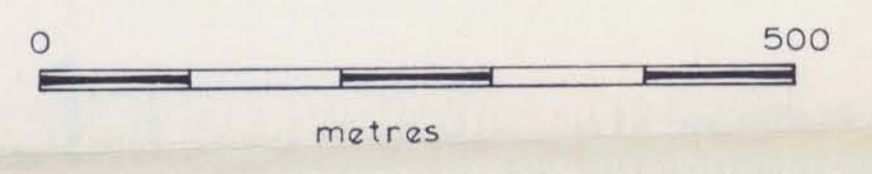
Vernon, B.C.

February 18, 1985



120° 15'

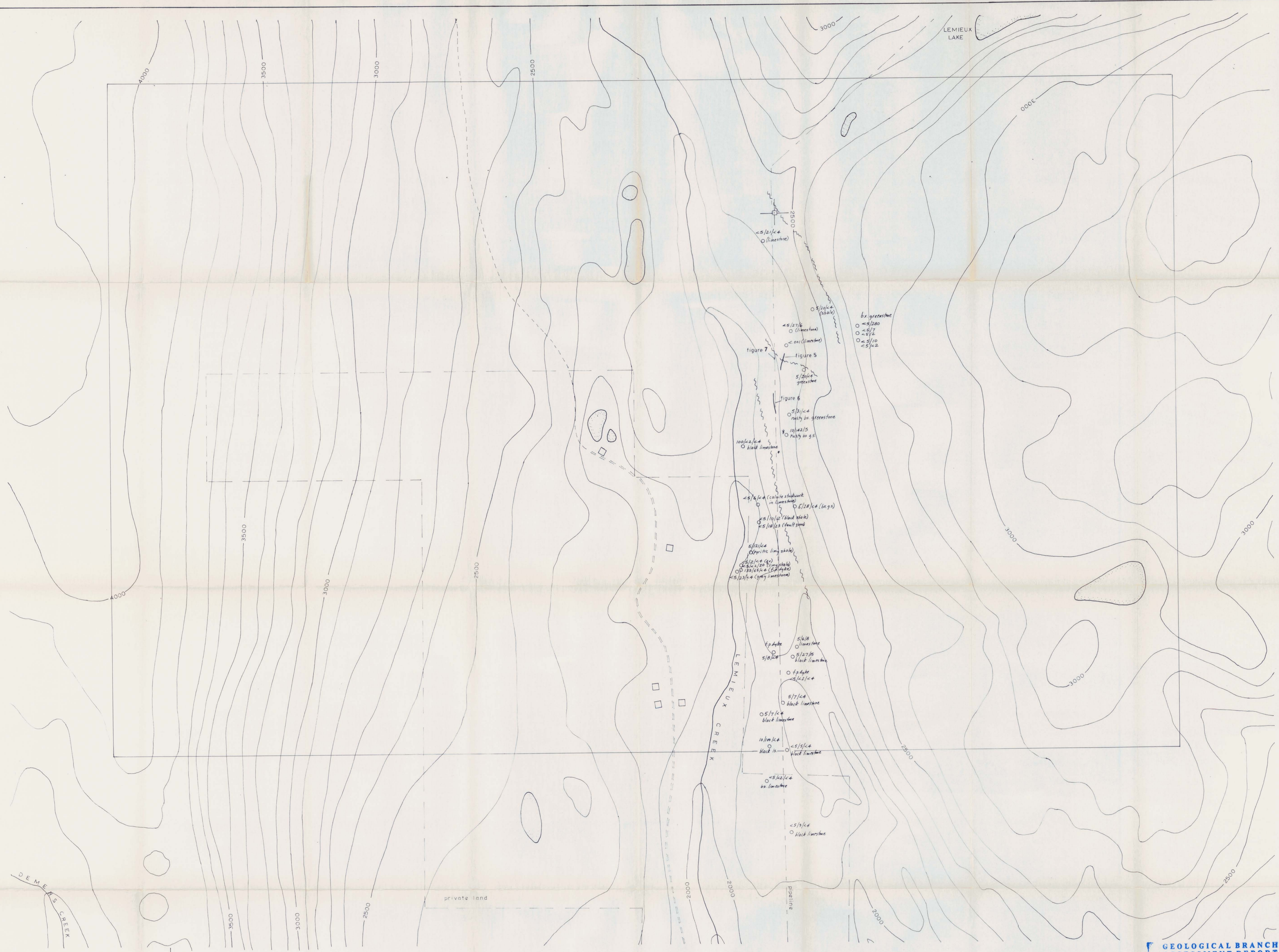
- Tertiary ?
  - + feldspar porphyry
- NICOLA Gp. (U. Triassic)
  - L limestone, limy shale
  - A argillite, shale
  - La brecciated limestone
- FENNELL Fm. (Paleozoic)
  - Δ brecciated greenstone
- ° bedding attitude
- fa. fold axis
- ~ fault



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

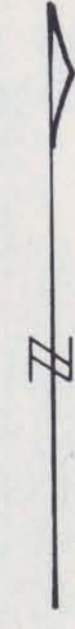
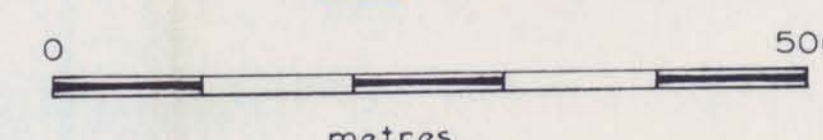
**13,312**

K.L. Daughtry & Assoc. Ltd.		
BRICAN RESOURCES LTD.		
GEOLOGY		
BEST PROPERTY		
Kamloops M.D.	B.C.	92P/9
SCALE: 1:5000	DATE: Nov / 84	
DRAWN BY: wfg	PROJ. NO.: 163	FIGURE: 3



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

13,312



10/142/5 rock sample  
Au ppb / As ppm / Sb ppm

K.L. Daughtry & Assoc. Ltd.	
BRICAN RESOURCES LTD.	
ROCK SAMPLING	
BEST PROPERTY	
Kamloops, M.D.	B.C. 92 P/9
SCALE: 1:5000	DATE: Nov/84
DRAWN BY: wrq	PROJ. NO. 1163
	FIGURE 4

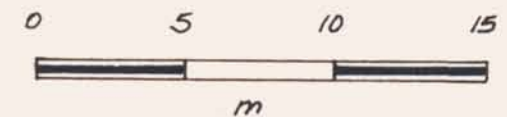
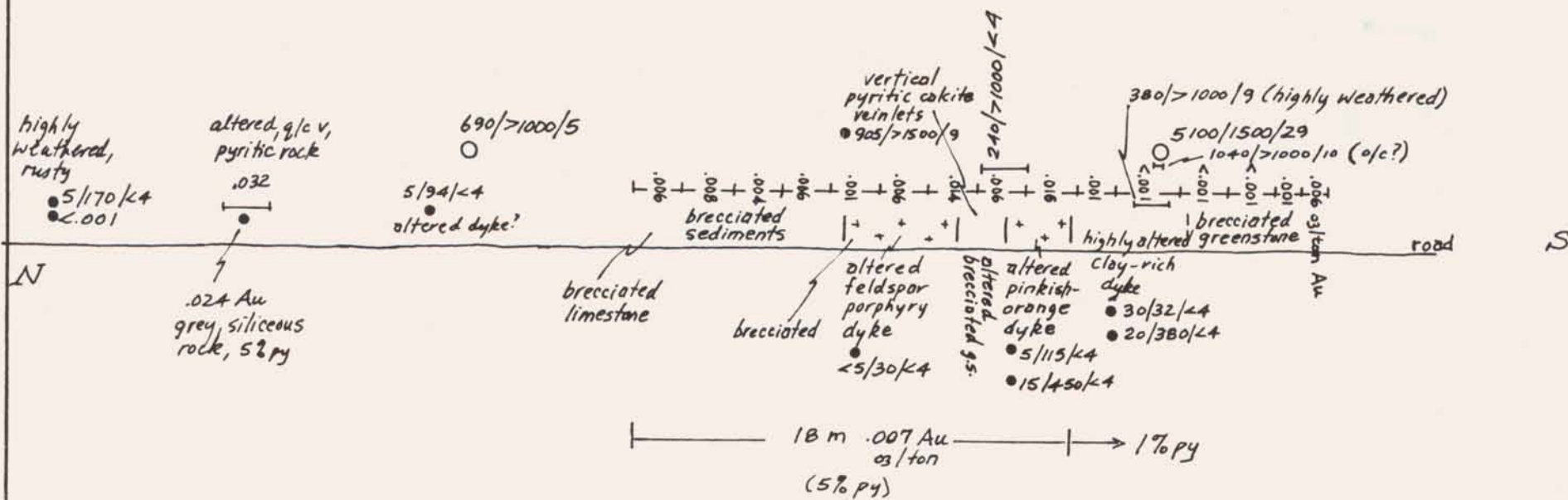
120° 15'

1312

- soil sample - Au ppb / As ppm / Sb ppm
- ┆ rock chip sample  
Au assay (oz/ton) or  
Au/As/Sb geochem
- rock grab sample  
Au/As/Sb
- q/c ✓ quartz / calcite vein

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**13,312**



SEE FIGURE 4 FOR LOCATION

**BRICAN RESOURCES LTD**

K.L. DAUGHTRY & ASSOC. LTD.

**SKETCH SECTION**

**BEST PROPERTY**

KAMLOOPS M.D. 92P/9

1:250

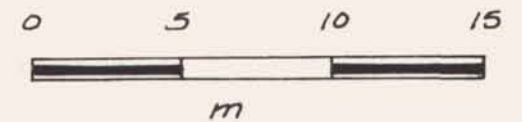
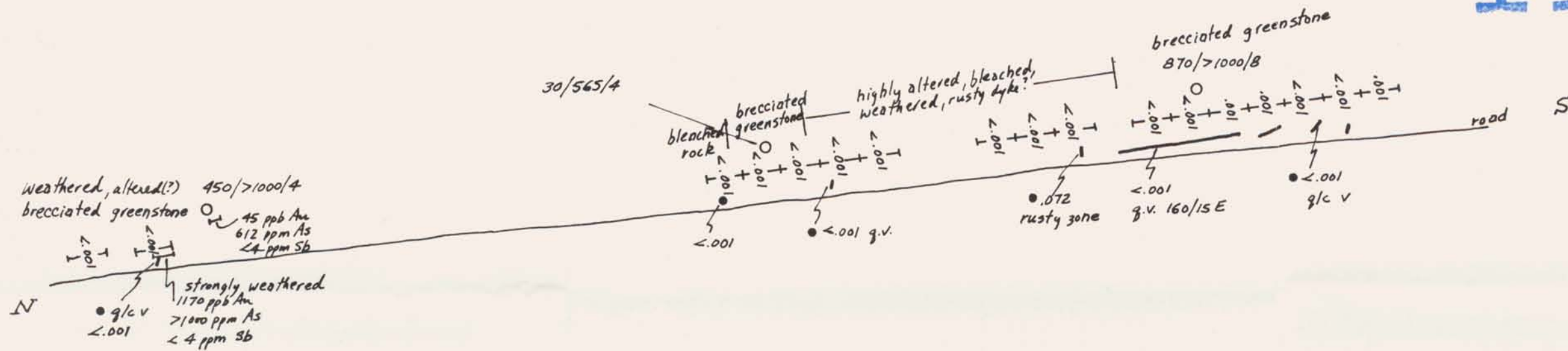
Nov/84

Project: 163

Figure: 5

WRG

13,312



- soil sample Au ppb/As ppm/Sb ppm
- rock chip sample Au assay (oz/ton)
- rock grab sample

— g/c v quartz/calcite vein

SEE FIGURE 4 FOR LOCATION

**BRICAN RESOURCES LTD**

K.L. DAUGHTRY & ASSOC. LTD.

SKETCH SECTION  
BEST PROPERTY

KAMLOOPS M.D. 92P/9

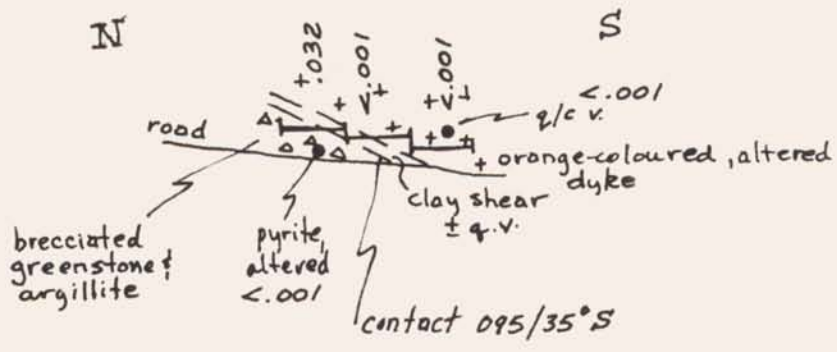
1:250

Nov/84

Project: 163

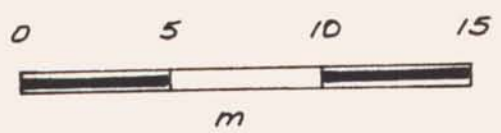
Figure: 6

wrg



values in 03/ton Au

SEE FIGURE 4 FOR LOCATION



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**15,312**

BRICAN RESOURCES LTD

K.L. DAUGHTRY & ASSOC. LTD.

SKETCH SECTION

BEST PROPERTY

KAMLOOPS M.D. 92P/9

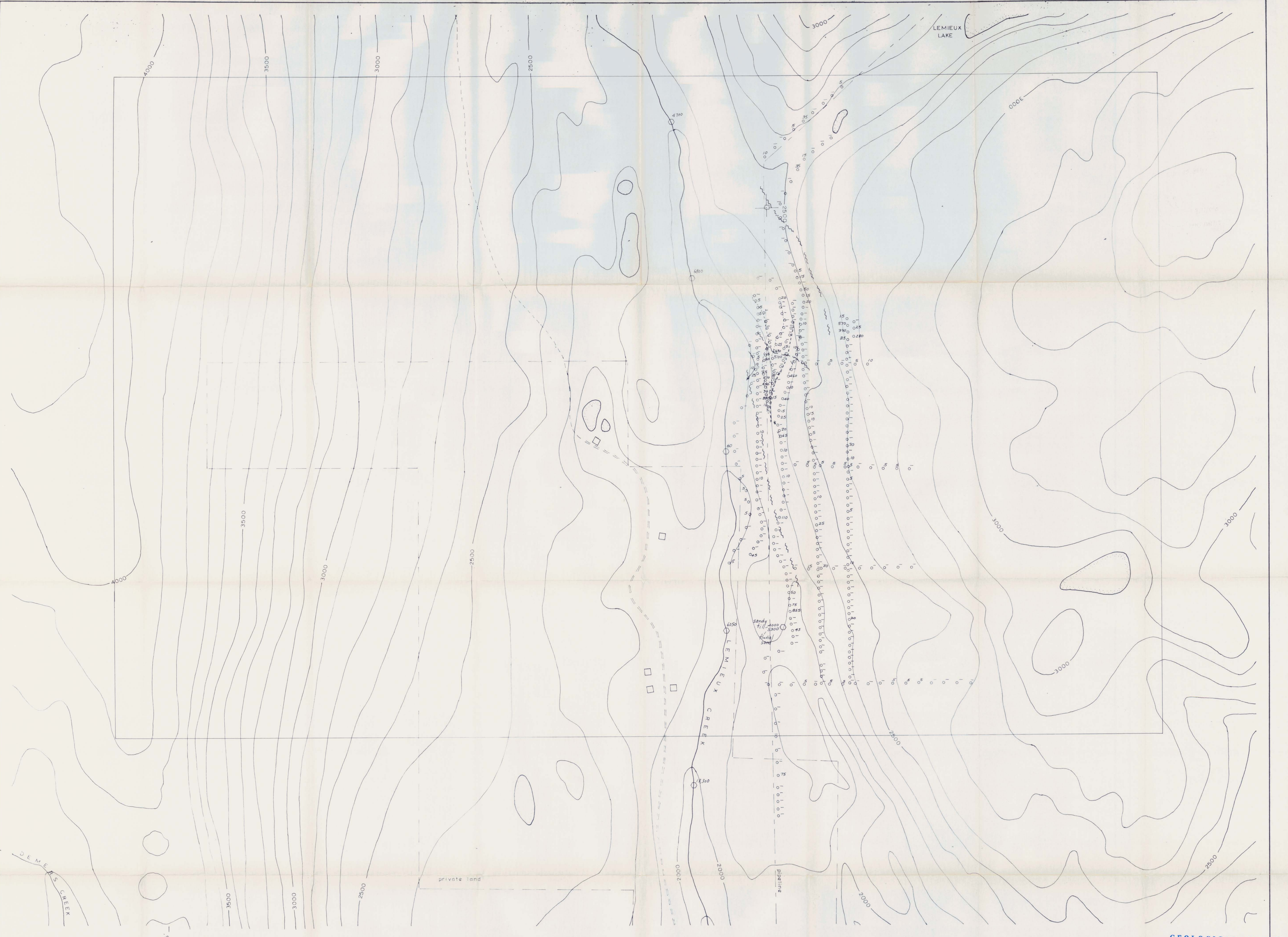
1:250

Nov./84

Project: 163

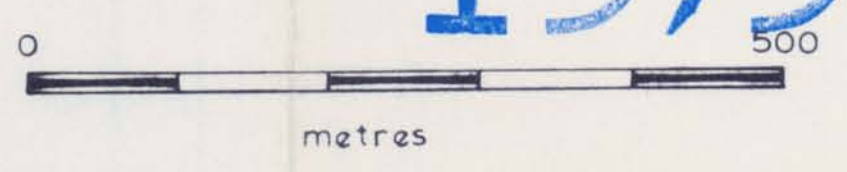
Figure: 7

WTG

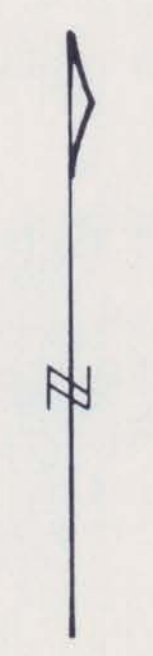


GEOLOGICAL BRANCH  
ASSESSMENT REPORT

**13,312**

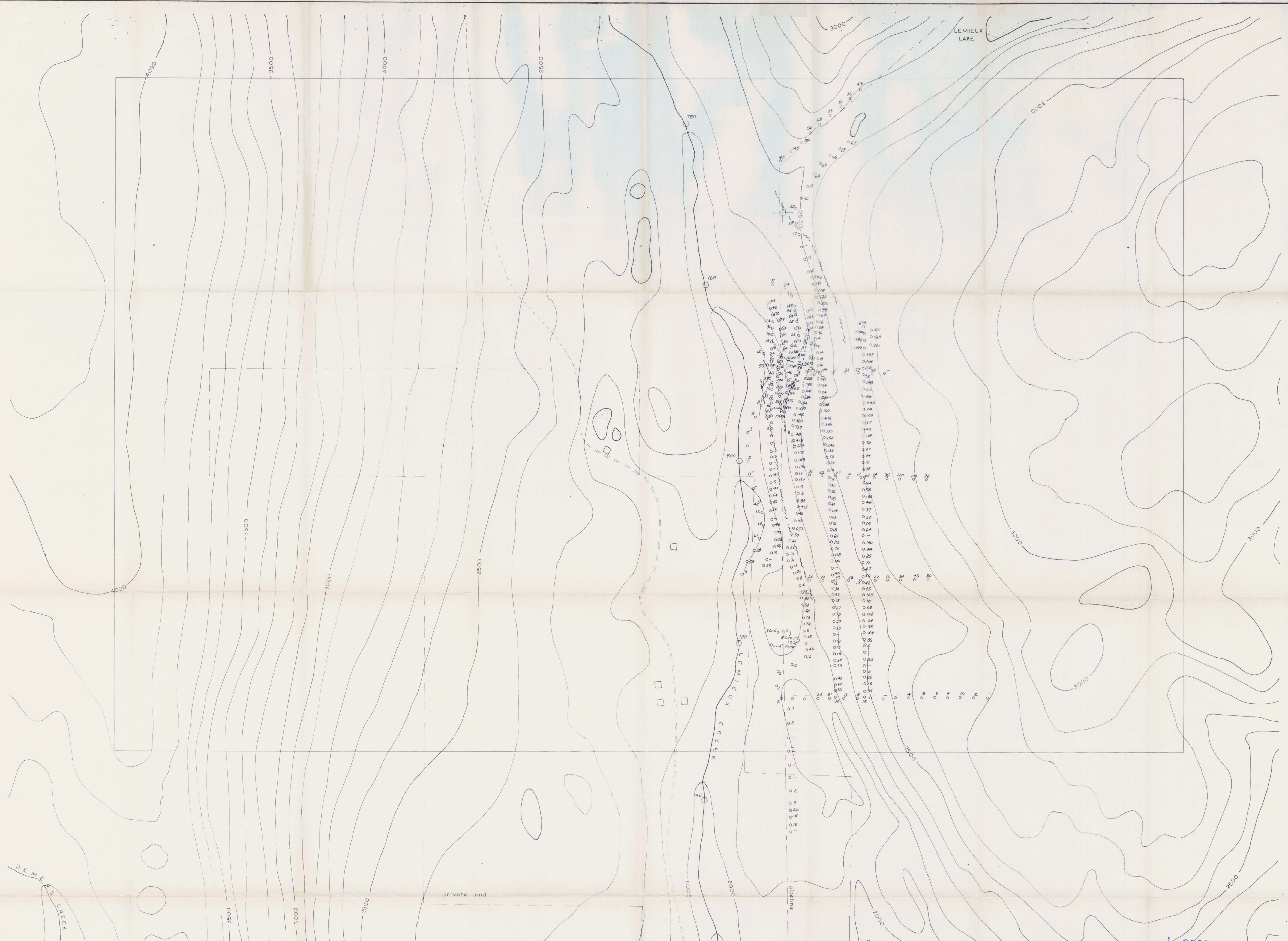


- SOIL
- HEAVY MINERAL HN FRACTION  
STREAM SEDIMENTS
- AU VALUES IN PPB
- <5 PPB



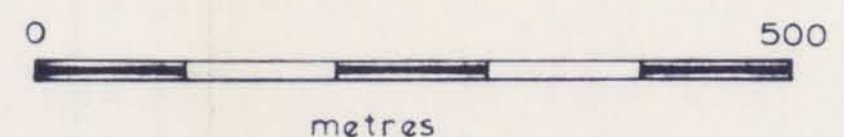
K.L. Daughtry & Assoc. Ltd.  
BRICAN RESOURCES LTD.

GOLD IN SOILS  
& STREAM SEDIMENTS  
BEST PROPERTY  
Kamloops M.D. B.C. 92P/9  
SCALE: 1:5000 DATE: Nov/ 84  
DRAWN BY: WTG PROJ. NO. 163 FIGURE: 8



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

**13,312**



- SOIL
- HEAVY MINERAL HN FRACTION  
STREAM SEDIMENTS
- AS VALUES IN PPM
- <2 PPM

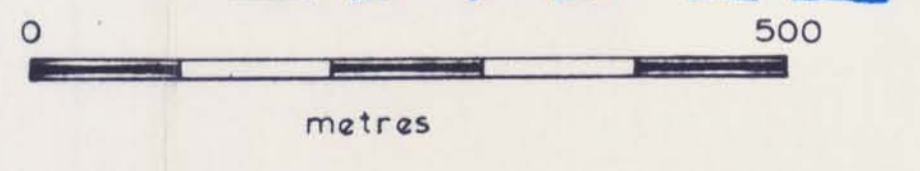
K.L. Daughtry & Assoc. Ltd.		
BRICAN RESOURCES LTD.		
ARSENIC IN SOILS & STREAM SEDIMENTS		
BEST PROPERTY		
Kamloops M.D.	B.C.	92P/9
SCALE: 1:5000	DATE Nov/ 84	
DRAWN BY: wrj	PROJ. NO. 163	FIGURE: 9





GEOLOGICAL BRANCH  
ASSESSMENT REPORT

13,312



- SOIL
- HEAVY MINERAL HN FRACTION
- STREAM SEDIMENTS
- SB VALUES IN PPM
- < 4 PPM

K.L. Daughtry & Assoc. Ltd.	
BRICAN RESOURCES LTD.	
ANTIMONY IN SOILS & STREAM SEDIMENTS BEST PROPERTY	
Kamloops M.D.	B.C. 92 P/9
SCALE: 1:5000	DATE: Nov/ 84
DRAWN BY: wrg	PROJ. NO. 163 FIGURE 10