

GEOLOGICAL & GEOCHEMICAL

ASSESSMENT REPORT

on the

TOP PROPERTY

(TOP & BOTTOM CLAIMS)

MCINTYRE LAKE

VERNON MINING DIVISION, B.C.

NTS: 82L/2E

Latitude: 50° 04' North

Longitude: 118° 33' West

Owner: Brican Resources Ltd.

Consultant: K.L. Daughtry & Associates Ltd.

Author: W.R. Gilmour

Date: May 7, 1982.

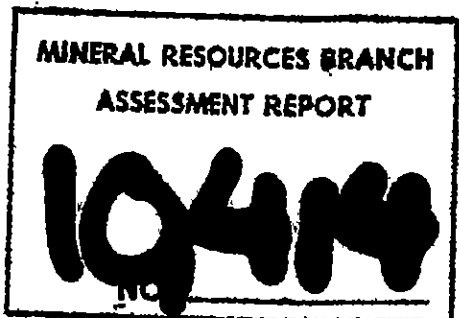


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SUMMARY

The TOP property, under option to Brican Resources Limited, is located 55 km east-southeast of Vernon, B.C. This report presents the results of exploration work carried out during the period July to October, 1981.

During 1981, grid lines totalling 1.0 km were installed and a soil survey was conducted. A total of 66 soil samples were collected; 12 were analysed for gold, silver and arsenic and 54 were analysed for mercury.

Geological mapping and sampling of the trenches were carried out with 44 chip and grab rock samples being collected and analysed for gold and silver.

Orientation magnetometer (Geometrics G-846 proton magnetometer) and electrometric (Sabre 27 VLF) surveys were attempted. However, a steep magnetic gradient in the area would make standard surveys difficult to interpret. A very narrow but strong magnetic low was noted over the shear zone.

The property exhibits exploration potential and a programme of further exploration is warranted.

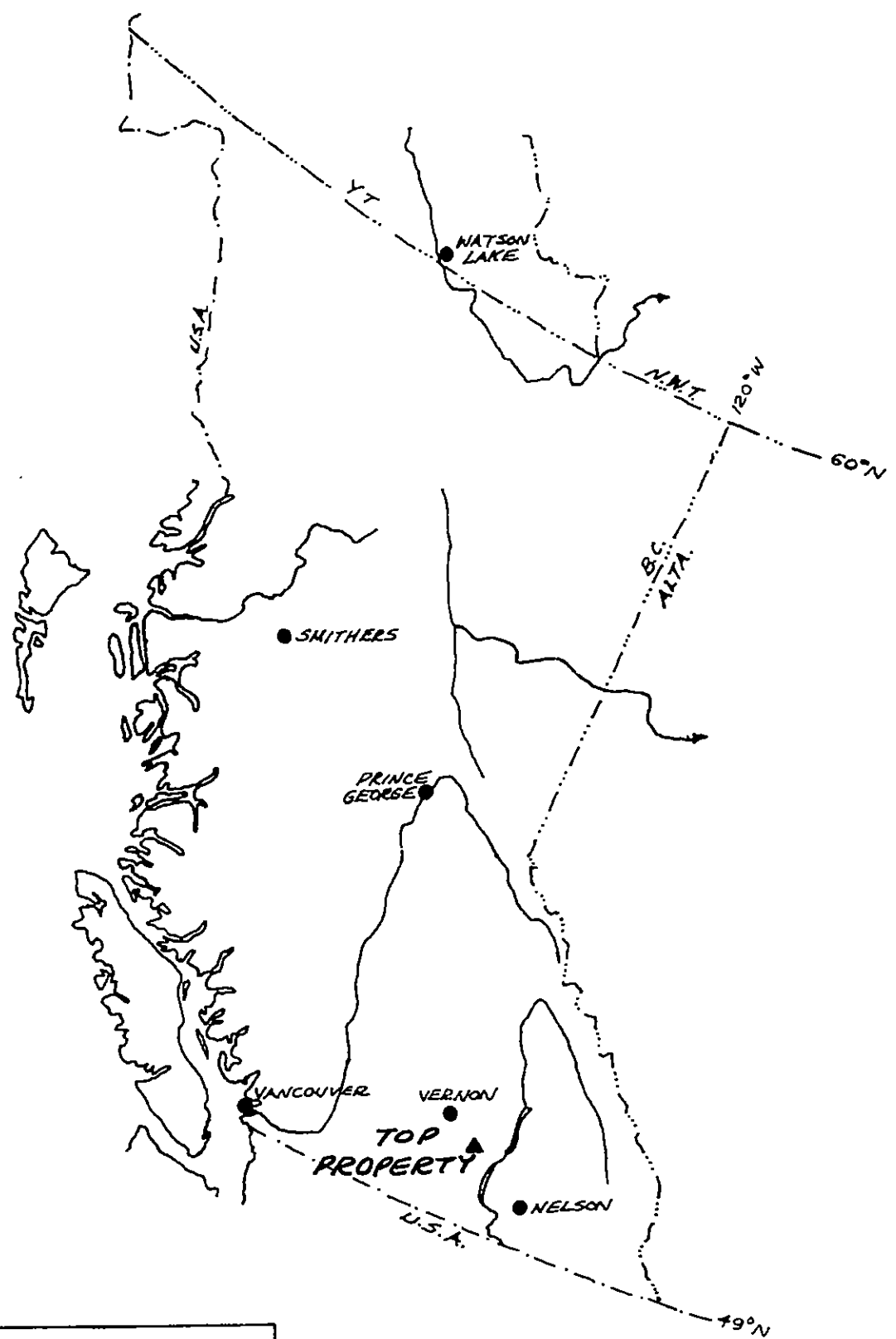
LOCATION, ACCESS, TOPOGRAPHY

The TOP property is in the Monashee Mountains, 4 km southwest of Monashee Pass and astride McIntyre Creek and Highway 6 (Figure 2), in the Vernon Mining Division.

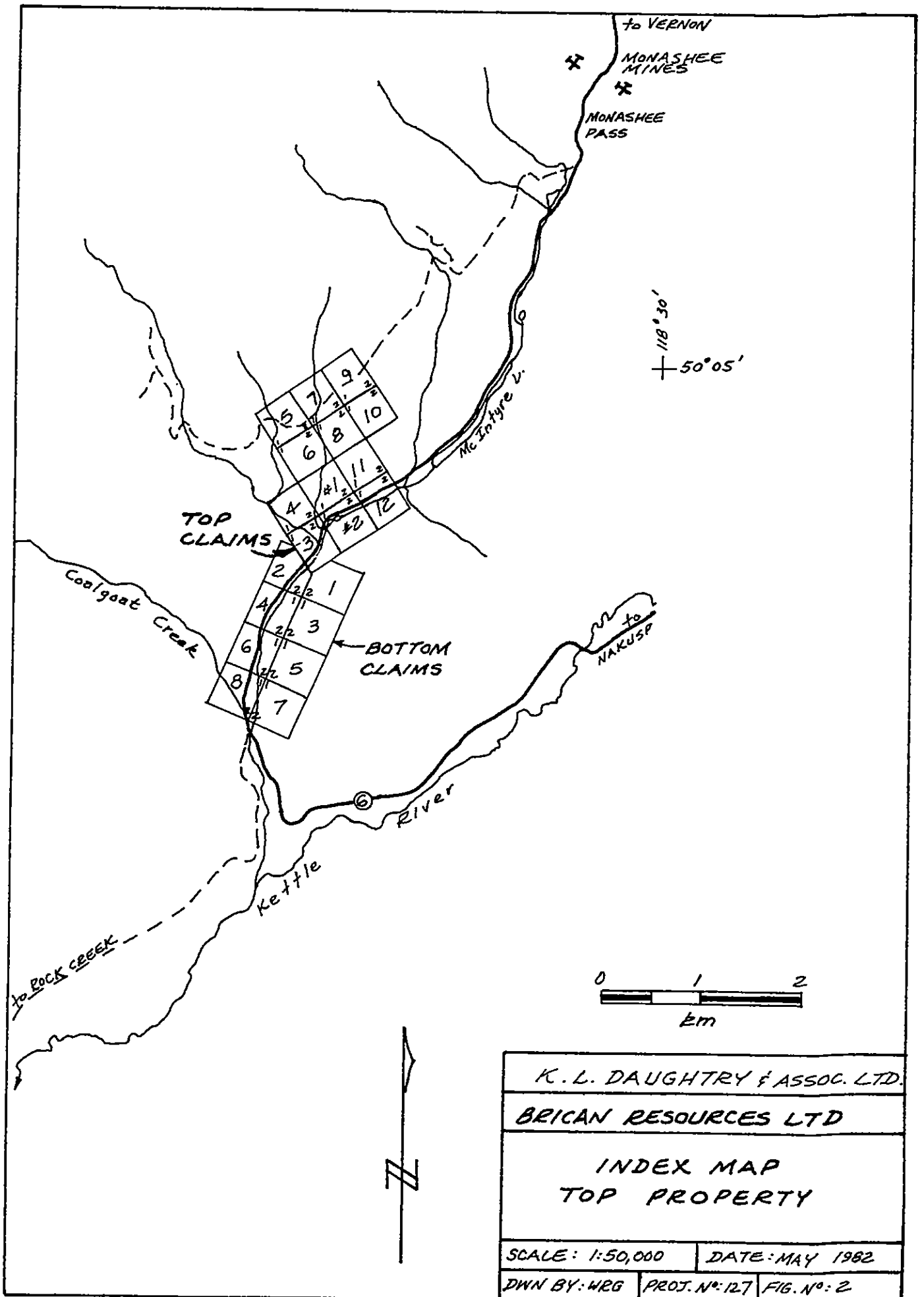
The National Topographic System map reference is 82L/2E and the co-ordinates of the showings are  $50^{\circ}04.3'$  north and  $118^{\circ}32.8'$  west.

Elevations on the property range from 1150 m at McIntyre Creek to 1500 m at the north end of the property. The topography has a moderate to steep southeast slope down to McIntyre Creek which is in a narrow 100 m to 200 m wide valley.

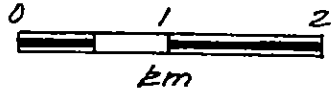
Good access is provided by Highway 6 from Vernon, a distance of 80 km to the west. The community of Cherryville is 30 km towards Vernon on Highway 6.



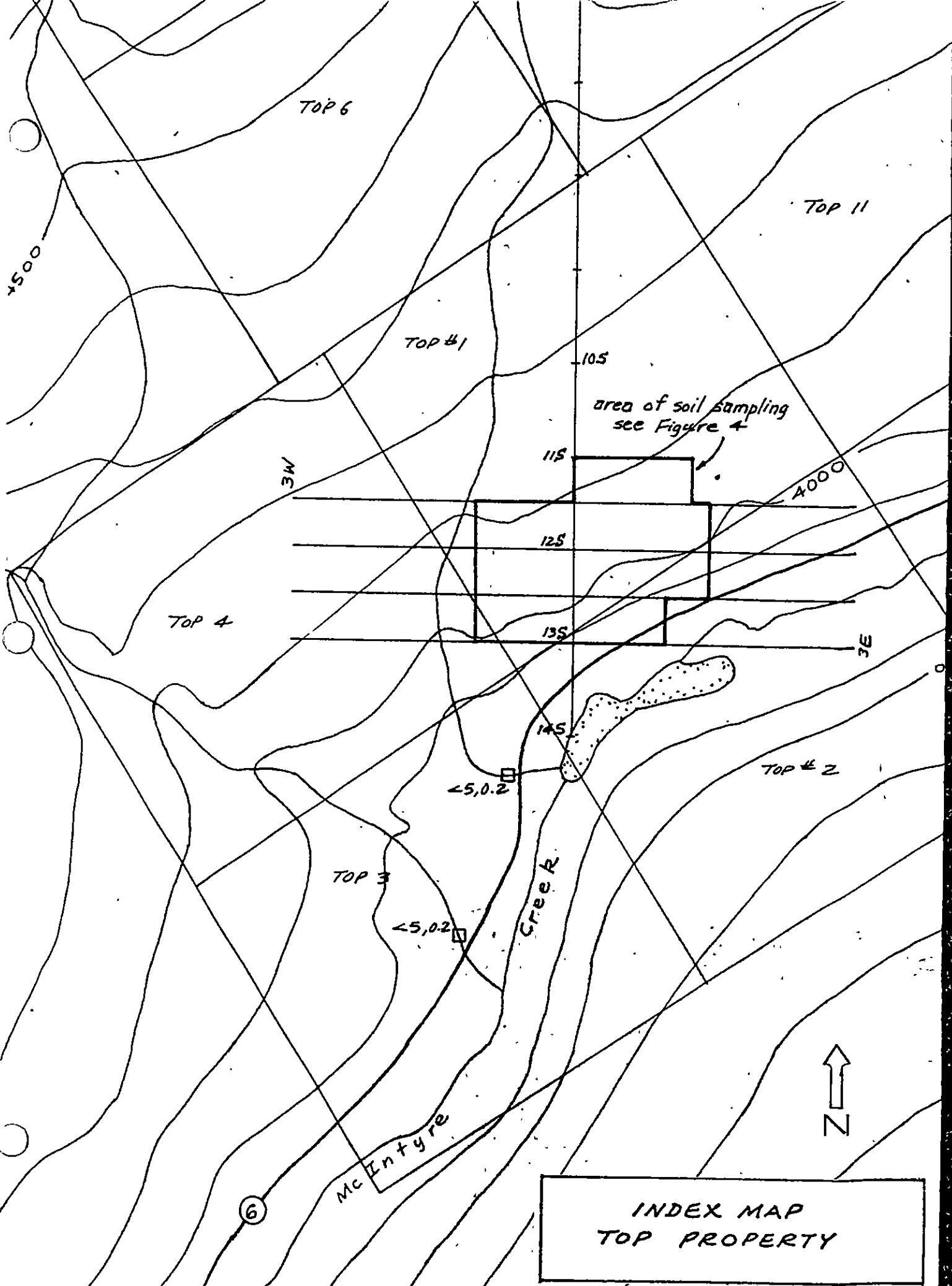
K.L. DAUGHTRY & ASSOC. LTD	
BRICAN RESOURCES LTD	
LOCATION MAP TOP PROPERTY	
MAY, 1982	FIG. NO. 1



118°30'  
50°05'



K. L. DAUGHTRY & ASSOC. LTD.	
BRICAN RESOURCES LTD	
INDEX MAP TOP PROPERTY	
SCALE: 1:50,000	DATE: MAY 1982
DWN BY: WRG	PROJ. NO: 127
	FIG. NO: 2



INDEX MAP  
TOP PROPERTY

PROPERTY

The property consists of twenty 2-post mineral claims (Figure 2) as described in the following table.

Claim Name	Record No.	Expiry Date	Registered Owner
Top#1 - Top#2	412 - 413	March 23, 1986	Brican Resources Ltd.
Top 5 - Top 6	934 - 935	October 10, 1985	Brican Resources Ltd.
Top 3 - Top 4	932 - 933	October 10, 1986	Brican Resources Ltd.
Top 7 - Top 12	936 - 941	October 10, 1986	Brican Resources Ltd.
Bottom 1-Bottom 8	1197 -1204	February 15, 1983	J. M. Graham

The above claims are grouped as the TOP group.

The ownership of the TOP claims is subject to an agreement, dated November 12, 1980, between J.E. Irwin, acting for himself and A.D. Irwin, and Brican Resources Ltd. The BOTTOM claims are beneficially owned by Brican Resources Ltd.



HISTORY

In the late 1960's Alf Brewer of Vernon staked the DUCE group over the showings and did minor bulldozer trenching.

In 1973, New Cinch Uranium carried out a programme of backhoe trenching, sampling and about 1000 feet of diamond drilling in 5 holes. New Cinch dropped their option in 1974.

In 1980 Brican Resources acquired an option on the TOP claims and in 1980 - 1981 carried out an orientation silt and soil survey.

GEOLOGY & MINERALIZATION

The TOP property is underlain by granitic rocks of the "Nelson" batholith of Jurassic age. Sedimentary and volcanic rocks of Paleozoic and Mesozoic age occur about 4.5 km north of the property. Tertiary volcanic rocks occur 1.5 km northwest of the property. Both xenoliths and Tertiary dykes are noted within the batholith in the area of the property.

Vein-type gold-silver mineralization occurs in several places in the Monashee Pass area. There has been minor production from these quartz-galena-sphalerite-arsenopyrite-chalcopryrite veins. Significant placer gold was mined from local creeks in the latter part of the 19th Century.

On the TOP property, gold-silver mineralization occurs in a shear zone cutting granite. Tertiary biotite lamprophyre dykes are spatially associated with and pre-date the shear zone.

The north-south striking shear zone can be traced for 170 m on surface. The width of intensely altered rock varies from 0.3 m to 7 m. In trench #3 the zone is vertical, however, down the hill in trench #1 and the highway cut the zone appears to dip westerly at about 45°. The zone has probably been offset by east-west faults.

Much of the zone has been completely altered to clay, while in other places

brecciation of granite and some lamprophyre occurs. Silicification and quartz veining are much less common. Pyrite was noted in quartz veins and brecciated altered granite, and arsenopyrite occurs in quartz veins. Relatively unaltered rocks appear to be enclosed within highly altered zones.

GEOCHEMICAL SURVEY

A line of 12 soil samples at 20 m intervals was run south of the highway cut (Figure 3,4,6) at the base of the hill on the south side of the valley to look for a possible southerly extension of the shear zone. A soil survey, totalling 54 samples, was also carried out on a 50 m by 20 m grid (Figure 5) north of the showings to test the extent of the previously discovered mercury anomaly. The samples were collected in numbered Kraft paper bags and sent to Bondar-Clegg & Co. Ltd. for analysis. Wherever possible the samples were collected from the B horizon, at approximately 15 cm depth. The -80 mesh fraction was subject to hot aqua regia digestion and analysed by atomic absorption (Ag, Hg), by combined fire assay-atomic absorption (Au), and by colorimetric (As) methods.

A detailed sampling program was carried out on trenches #1, #2 and #3 and the highway cut. Forty-four chip and grab samples were collected and sent to Bondar-Clegg & Co. Ltd. for analysis. The samples were analysed for Au and Ag by fire assay methods (Table 1).

Gold values greater than 0.05 oz/ton Au occur in a great variety of rock types; grey clay, pyritic altered brecciated granite, quartz veins with arsenopyrite, and rusty-coloured overburden. The four highest silver values (0.59 to 3.68 oz/ton Ag) are from rust-coloured samples.

TABLE 1

<u>SAMPLE NUMBER</u>	<u>SAMPLE TYPE</u>	<u>LENGTH/ WIDTH</u> m	<u>Au</u> <u>oz/ton</u>	<u>Ag</u> <u>oz/ton</u>	<u>COMMENTS</u>
7408	chip	2.1	.034	.04	light coloured pyritic altered/brecciated granite
7328	chip	2.1	.033	.14	same as 7408
7409	chip	2.9	.028	.02	grey clay/breccia zone
7329	chip	2.9	.032	.15	same as 7409
7410	chip	1.7	.027	.05	grey clay/breccia zone
7330	chip	1.7	.015	.12	same as 7410
7411	chip	1.4	.035	.10	lamprophyre; rusty shears; fault breccia, +/- clay
7331	chip	1.4	.031	.19	same as 7411
7412	chip	0.9	.030	.36	slightly rusty clay/ breccia zone
7413	chip	1.9	.004	.02	
7414	chip	2.3	.011	.17	
7415	chip	2.9	.003	.07	
7416	chip	2.1	<.002	.13	
7417	chip	2.1	.049	.29	rusty altered granite +/- clay; grey clay/ breccia zone
7418	chip	2.8	.017	.07	lamprophyre, granite
7419	chip	1.3	.14	.25	grey clay/breccia zone
7420	chip	2.7	.20	.42	grey clay/breccia zone; granite, lamprophyre

<u>SAMPLE NUMBER</u>	<u>SAMPLE TYPE</u>	<u>LENGTH/ WIDTH</u>	<u>Au oz/ton</u>	<u>Ag oz/ton</u>	<u>COMMENTS</u>
7421	chip	2.6	.020	.12	granite +/- clay
7422	chip	1.7	<.002	.02	granite
71901	selected grab	-	.077	.07	light pale green altered brecciated granite; 5-10% py
71902	selected grab	-	.15	.05	arsenopyrite rich bands in 4 cm quartz vein
71903	grab	-	.043	.16	rusty clay/breccia zone, overlying grey clay
71904	grab	-	.62	.34	grey clay/breccia zone underlying 71903
71905	grab	-	-	-	pink stain on crumbly granite; 4 ppm Co
71906	chip	2.0	.005	.13	grey clay +/- granite
71907	chip	W 1.0	.024	.06	granitic breccia/clay zone
71908	chip	W 1.0	.020	.10	clay/breccia zone; slight rusty color
71909	chip	W 0.3	.002	.02	brown clay in shear
71910	chip	W 0.6	.079	.59	rusty altered/brecciated granite
71911	chip	2.0	.053	3.68	rusty granite clay/breccia zone
71912	grab	-	.002	.02	granitic clay/breccia zone
71913	chip	2.4	.014	.06	slightly rusty granitic clay/breccia zone +/- granite
71914	grab	-	.023	.03	black sheared rock +/- altered/brecciated granite

<u>SAMPLE NUMBER</u>	<u>SAMPLE TYPE</u>	<u>LENGTH/ WIDTH</u>	<u>Au oz/ton</u>	<u>Ag oz/ton</u>	<u>COMMENTS</u>
71915	chip	W 1.8	.078	.03	grey clay/breccia zone,
71916	chip	W 0.6	.020	.03	hard pyritic altered granite, rusty zones
71917	grab	-	.006	.04	similar to 71916 except non-rusty color
71918	chip	W 1.1	.071	.05	grey clay +/- py +/- granite
71919	grab	-	.092	.94	rusty overburden
71920	grab	-	.003	.03	crumbly granite
G2	grab	-	.073	.18	bx/clay zone, rusty
G3	grab	-	.024	.76	bx/clay zone, very rusty
G4	grab	-	.054	.22	bx/clay zone
G5	grab	-	.17	.37	bx/clay zone, brown
G6	grab	-	.002	.14	bx/clay zone
G7	grab	-	.010	.15	bx/clay zone

TABLE 2  
SUMMARY OF SAMPLING RESULTS

<u>Sampler/date</u>	<u>Length</u> <u>m</u>	<u>Au</u> <u>oz/ton</u>	<u>Ag</u> <u>oz/ton</u>	<u>Sample number(s)</u>
<u>Highway Cut</u>				
CL/81	grab	.056	.30	G2-G7
COM/81	grab	.15	.2	22
EOC/68	grab	.37	.40	905-907
 <u>Trench #1</u>				
COM/81	0.5	.06	.9	12
COM/81	1.7	.06	.1	13
WRG/81	0.6	.079	.59	71910
WRG/81	2.0	.053	3.68	71911
JG/81	2.1	.049	.29	7417
JG/81	15.0	.015	.14	7412-7418
COM/78	grab	.5	3.9	
KLD/73	12.2	.124	.88	7469
 <u>Trench #2</u>				
COM/81	2.4	.03	.3	9
WRG/81	grab	.62	.34	71904
WRG/81	grab	.043	.16	71903
JG/81	4.0	.181	.37	7419-7420
KLD/73	6.2	.125	.91	7466-7468
EOC/72	1.8	.070	n/a	6
EOC/68	grab	.14	.77	909



<u>Sampler/date</u>	<u>Length</u> <u>m</u>	<u>Au</u> <u>oz/ton</u>	<u>Ag</u> <u>oz/ton</u>	<u>Sample number(s)</u>
<u>Trench #3</u>				
COM/81	2.5	.04	.1	3
WRG/81	grab	.077	.07	71901
WRG/81	grab	.15	.05	71902
WRG/81	3.5	.066	.04	71915-71916, 71918
JG/81	8.1	.030	.09	7408-7411
JEI/80	1.8	.228	.31	67906-67908
COM/78	1.5	.16	.1	
KLD/73	2.1	.215	.08	7465
EOC/72	1.8	.668	n/a	1
EOC/68	1.8	.65	.23	910

Trench immediately north of #3

EOC/74	grab	.520	.20	19515
KLD/73	2.1	.002	.02	7470

Trench immediately north of #4

KLD/73	1.1	.004	.02	7462
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Trench immediately south of #5

KLD/73	0.9	.016	.02	7461
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DISCUSSIONS & CONCLUSIONS

Significant gold, with minor silver mineralization occurs in a highly altered brecciated shear zone. Gold appears to be associated with clay alteration and with pyrite and arsenopyrite mineralization. The tenor of mineralization is very erratic as seen when comparing sampling results over the past 14 years (Table 2). However, significant values have repeatedly been obtained. The correlative of the higher silver value with oxidized rock indicates possible secondary enrichment of silver.

The shear zone show variability in degree and extent of alteration and mineralization. These features along with probable late cross faulting and changes in attitude of the zone make exploration by drilling difficult.

The narrowing of the zone and the presence of anomalous mercury in the soils above the main mineralized zone seems to indicate vertical mineralogical zoning. Combined with the intense clay alteration it appears that the TOP property has many characteristics of the upper portion of an epithermal gold deposit.

RECOMMENDATIONS

The following programme is recommended.

Phase A:

1. Geological mapping and prospecting to look for extensions of the shear zone, possible offset faults and other parallel shear zones.
2. A soil survey with more detail in geologically favourable areas. The samples should be analysed for gold, arsenic and silver.
3. A gradient magnetometer survey should aid in mapping structures on the property.

Phase B:

1. Backhoe trenching of geochemical, geophysical and geological target would follow.

Phase C:

1. Delineation and evaluation of gold-silver mineralization by drilling.

Respectfully submitted,

W.R. Gilmour



May 7, 1982.

REFERENCES

Chisholm, E.O.	(1968-74)	Private Reports
--	(1974)	Diamond Drill Report on GOLD and TOP Claims, Assessment Report 4946
Daughtry, K.L.	--	Private Reports
--	(1973)	Report on GOLD and TOP Mineral Claims, Vernon M.D., for New Cinch Uranium Ltd.
--	(1977)	Report on the GOLD Property, Vernon M.D., for New Aston Resources Ltd.
G.E.M.	(1973)	pp 98-99 TOP
--	(1974)	pp 88-89 TOP
Gilmour, W.R.	(1981)	Geochemical Assessment Report on the TOP property.
Jones, A.G.	(1959)	Vernon Map Area, G.S.C. Memoir 296
Mitchell, M.A.	(1977)	Report on GOLD Mineral Claims, Vernon M.D.
Okulitch, A.V.		G.S.C. Open File 637

STATEMENT OF COSTS

1.	Professional Services		
	W.R. Gilmour, geology, sampling		
	2 days @\$200/diem	\$400.00	
	Oct 1, 15		
	Supervision report writing		
	2 days @ \$200/diem	400.00	\$800.00
2.	<u>Labour</u>		
	John Graham, prospector		
	4 days @\$150/diem	600.00	
	July 16, Aug 18-19		
	Oct. 15		
	Craig Lynes		
	3 days @\$100/diem	300.00	
	Aug 18-19, Oct. 15		900.00
3.	Vehicles		
	4 x 4 truck, 5 days @\$25/diem	125.00	
	July 16, Aug 18-19,		
	Oct 1, 15		
	750 km @.25/km	187.50	
	gas, oil	-58.50	371.00
4.	Geochemistry		
	Soil sampling		
	54 Hg @3.50	189.00	
	12 Au @5.25	63.00	
	12 Ag @2.90	34.80	
	12 As @1.25	15.00	
	Rock sampling		
	44 Au & Ag @11.00	484.00	
	66 sample preparations @.60	39.60	
			825.40
5.	Field Supplies	25.80	25.80
6.	Office, telephone, shipping,		
	printing, secretarial	250.00	250.00
			<u>\$3,172.20</u>

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 11 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.
5. This report is based upon knowledge of the TOP property gained from exploration work on the property.

  
W.R. Gilmour

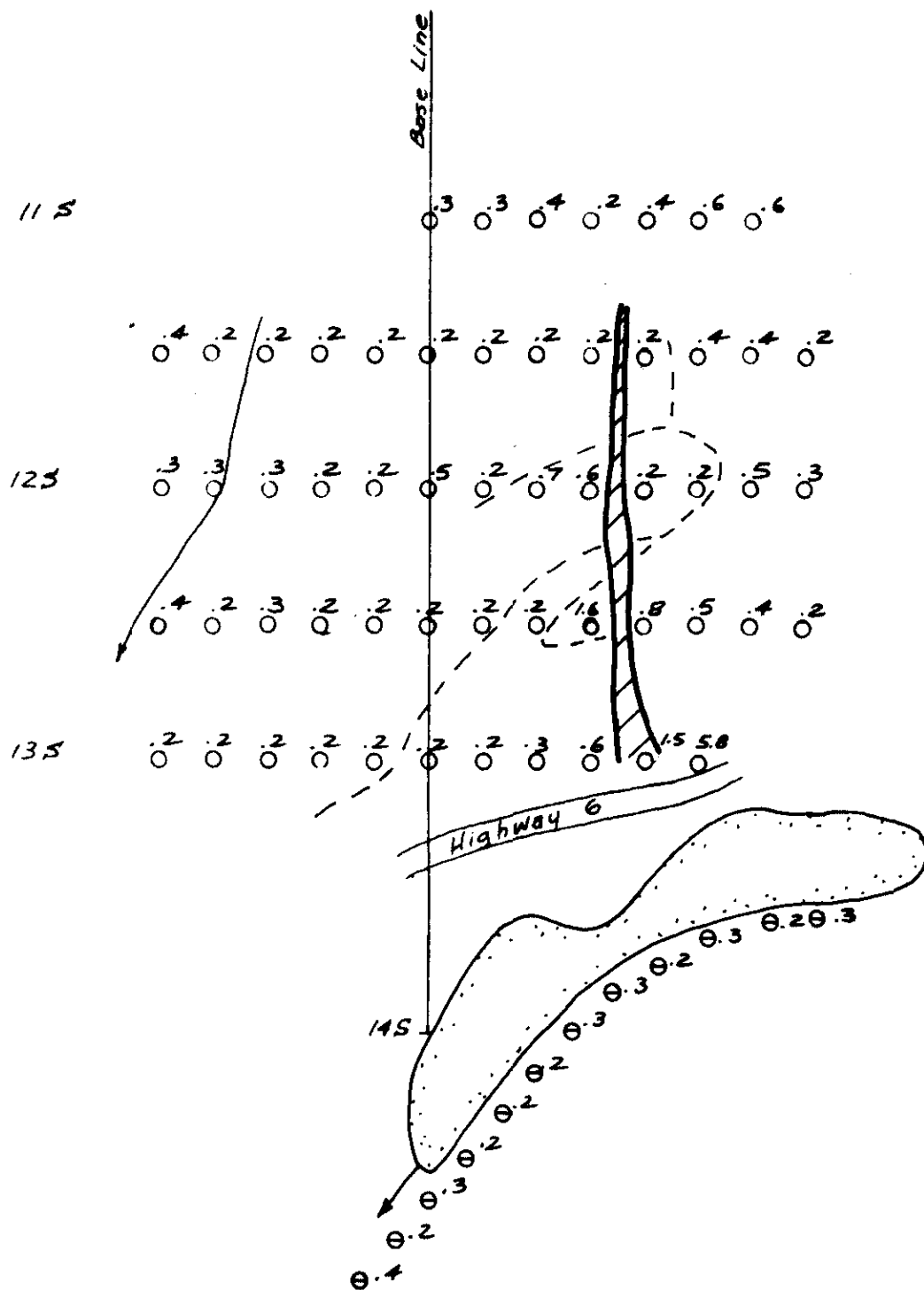
Vernon, B.C.

May 7, 1982



MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT

10,414



0.2 ppm Ag  
 ⊙ data presented in this report

▨ shear zone as delineated by trenching  
 --- old road  
 → creek

0 50 100  
 metres

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SILVER IN SOILS

TOP PROPERTY

VERNON M.D.

B.C.

82L/2E

SCALE: 1:2500

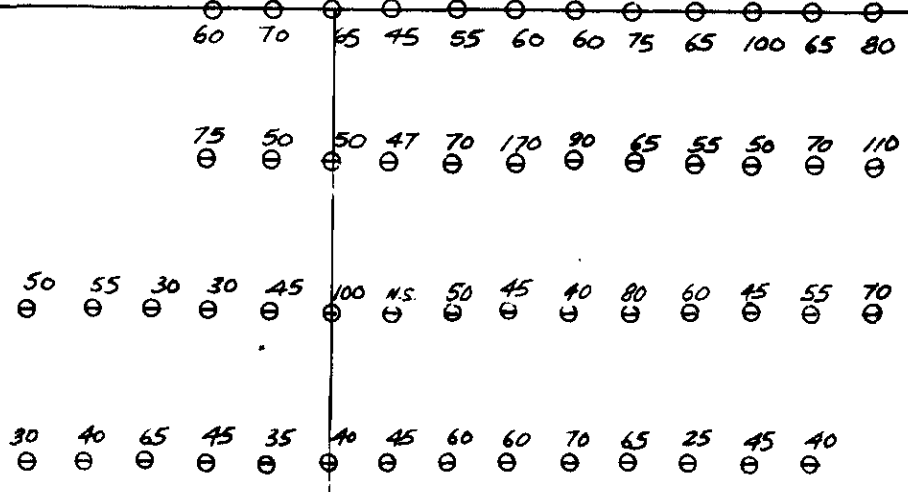
DATE: MAY, 1982

DWN BY: WES

PROJ. NO: 127

FIGURE NO: 4





MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**10,414**  
NO.

11.5

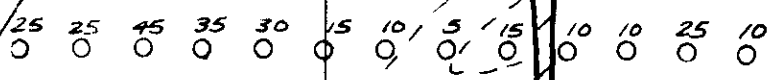
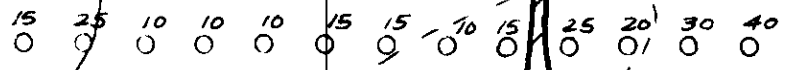


○ 55 ppb Hg  
⊖ data presented in this report

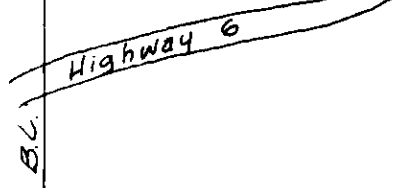
12.5



shear zone as delineated by trenching  
--- old road  
—> creek



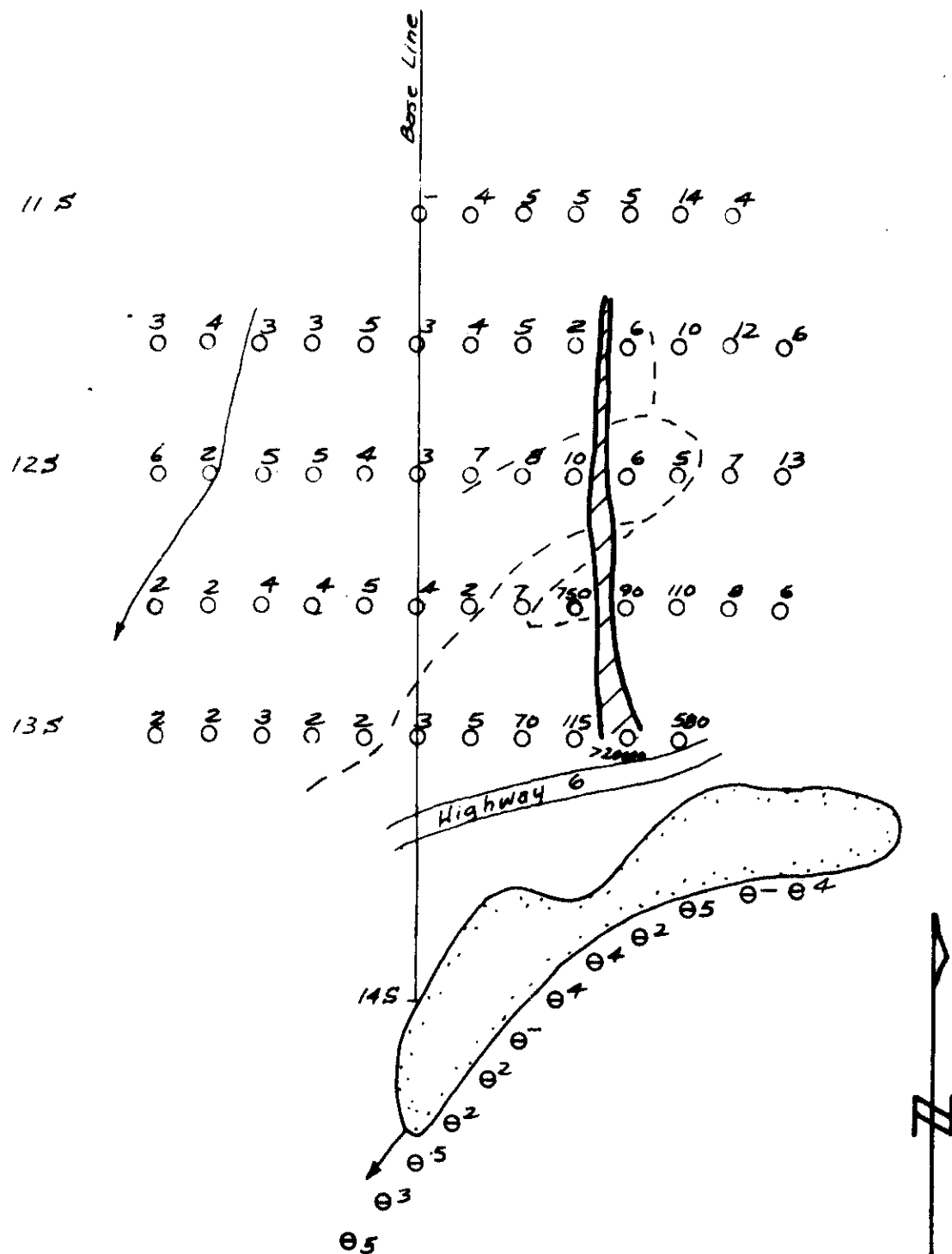
13.5



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<b>MERCURY IN SOILS</b>		
TOP PROPERTY		
VERNON M.D.	B.C.	82L/2E
SCALE: 1:2500		DATE: MAY, 1982
DWN BY: WRG	PROJ. NO: 127	FIGURE NO: 5

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT

10,414  
NO.



○<sup>2</sup> ppm As  
⊖ data presented in this report

▨ shear zone as delineated by trenching  
--- old road  
→ creek

0 50 100  
metres

K. L. DAUGHTRY & ASSOC. LTD.

BRICAN RESOURCES LTD.

ARSENIC IN SOILS

TOP PROPERTY

VERNON M.D.

B.C.

82L/2E


SCALE: 1:2500


DATE: MAY, 1982

DWN BY: WEG


PROJ. NO: 127

FIGURE NO: 6


TECTARY  biotite lampruopyre dyke

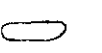
JURASSIC  granite


- most commonly light grey, leached, very soft clay gouge/breccia zone, grading to crumbly granite, containing unaltered sections of granite & dyke
- granite is highly altered (clay), sheared & brecciated in gouge zone
- in non-clay sections, altered & brecciated granite contains 5-10% disseminated pyrite
- pyritic granite cut by q.v. (up to 4cm wide) & veinlets (2mm) containing f.g. arsenopyrite


 shear

q.v. quartz vein

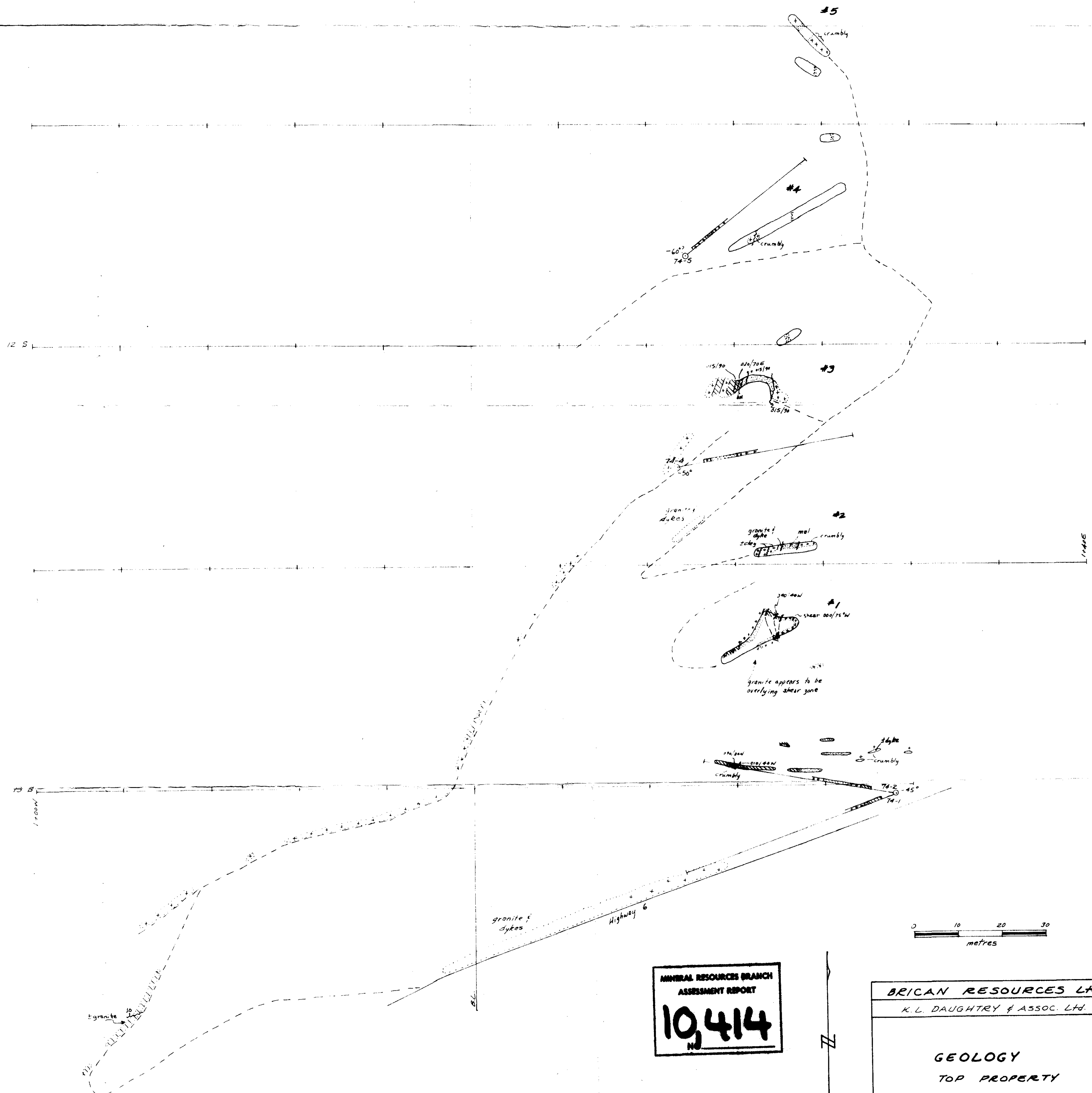
 'cat road'

 trem. h.

 diamond tr. n.e.


 'cat road'


ma' malachite








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**GEOLOGY**  
TOP PROPERTY  
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SCALE: 1/500 DATE: MAY, 1982  
DWN. BY: PROJ. NO: 127 FIG. NO: 7

TERTIARY  biotite lamprophyre dyke

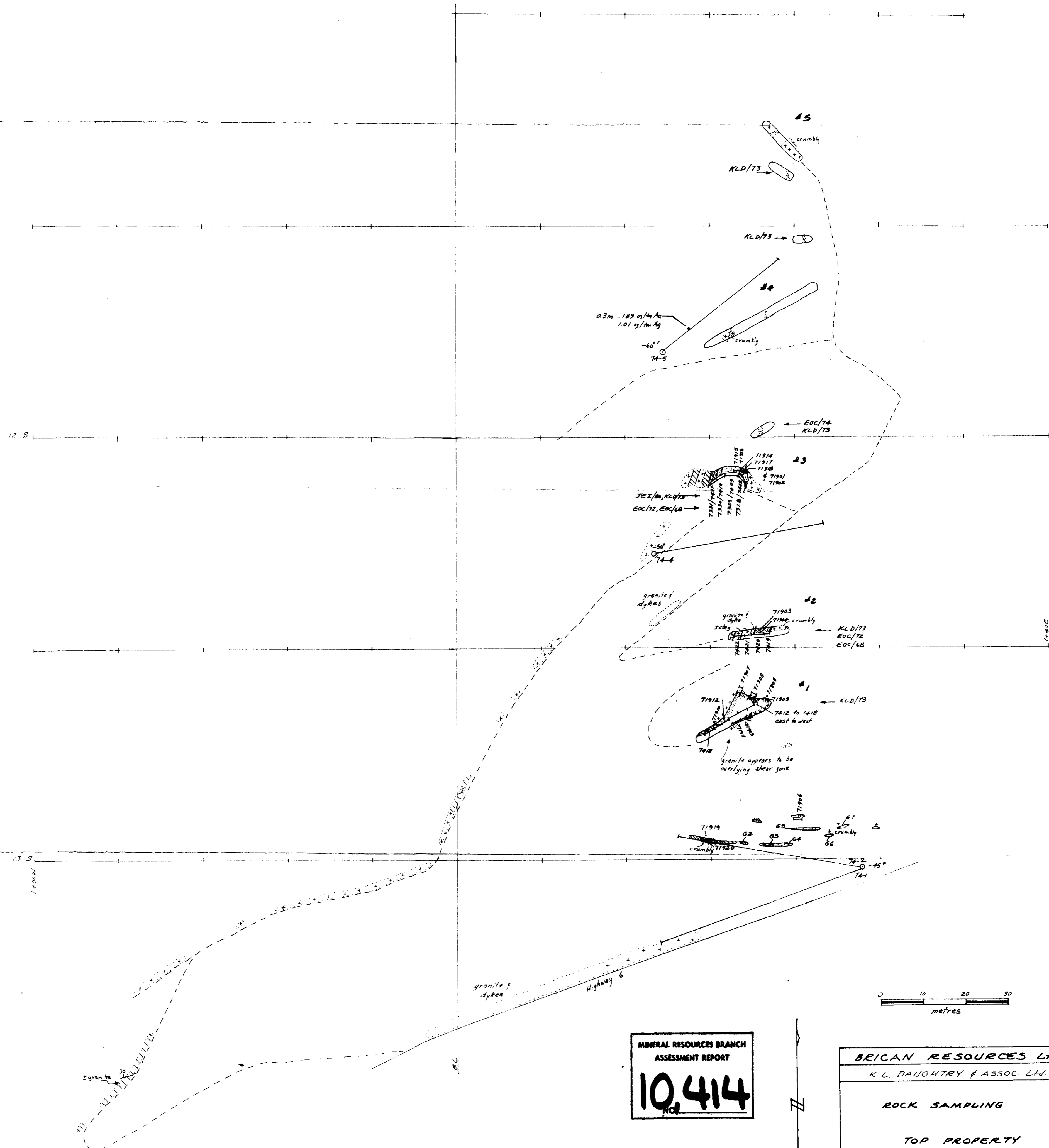
CRETACEOUS?  granite

- most commonly light grey, leached, very soft clay gouge & breccia zone, grading to crumbly granite & dyke
- granite is highly altered (clay), sheared & brecciated in gouge zone
- in non-clay sections, altered & brecciated granite contains 5-10% disseminated pyrite
- pyritic granite cut by q.v. (up to 4cm wide) & veinlets (2mm) containing f.g. arsenopyrite

-  shear
- q.v. quartz vein
-  outcrop
-  trench
-  diamond drill hole
-  'cat road'

- rock grab sample
- rock chip sample

see Tables 1 & 2 for results



MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**10,414**

BRICAN RESOURCES LTD.	
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ROCK SAMPLING	
TOP PROPERTY	
VERNON M.D.	82L/2E
SCALE 1:500	DATE: MAY, 1982
DWN BY: WRS	PROJ. NO. 127 FIG. NO. 8