

84-1423-13396  
11/85

ASSESSMENT REPORT ON

LITHOGEOCHEMICAL AND GEOPHYSICAL SURVEYS

and BACKHOE TRENCHING

ON THE

RABBITT PROPERTY

(Rabbitt 1-3, Boulder 1-2, International  
Cousin Jack, Freddie Burn, Ymir claims)

TULAMEEN AREA

SIMILKAMEEN MINING DIVISION

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

NTS: 92H/10W  
Latitude: 49°33' to 49°37' North  
Longitude: 120°47' to 120°50' West  
Owners: Harold J. Adams, Keith R. George  
Operators: Brican Resources Ltd., Aberford Resources Ltd.  
Consultant: K.L. Daughtry and Associates Ltd.  
Author: K.L. Daughtry  
Date: February 18, 1985

**13,396**

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INTRODUCTION

The RABBITT property near Tulameen B.C. is a large block of claims covering numerous old showings of copper, lead, zinc, gold and silver mineralization. Systematic surface exploration by Brican Resources Ltd. and Aberford Resources Ltd. is currently evaluating the potential of the property. This report describes the geochemical and geophysical exploration conducted on the claims in 1984.

A lithochemical survey provided information on rock geochemistry of volcanic rocks hosting the mineralization, as well as the mineralized and altered rocks in the areas of the showings.

A detailed magnetic survey was conducted over 6.3 line-kilometres of new flagged grid in the area of a magnetic anomaly discovered by a previous reconnaissance survey.

A programme of backhoe trenching was initiated but was terminated before completion due to the onset of heavy snow conditions.

The results to date are encouraging and further exploration is recommended.

LOCATION, ACCESS AND TOPOGRAPHY

The RABBITT property, northwest of Tulameen B.C. is a large block of claims that occupies the upland area immediately west of Otter Lake (Figures 1 and 2). The southern part of the claims covers the crest and slopes of the southeasterly trending ridge between Rabbitt Mountain and Mount Riddell. The northern part of the property covers a large part of Boulder Mountain.

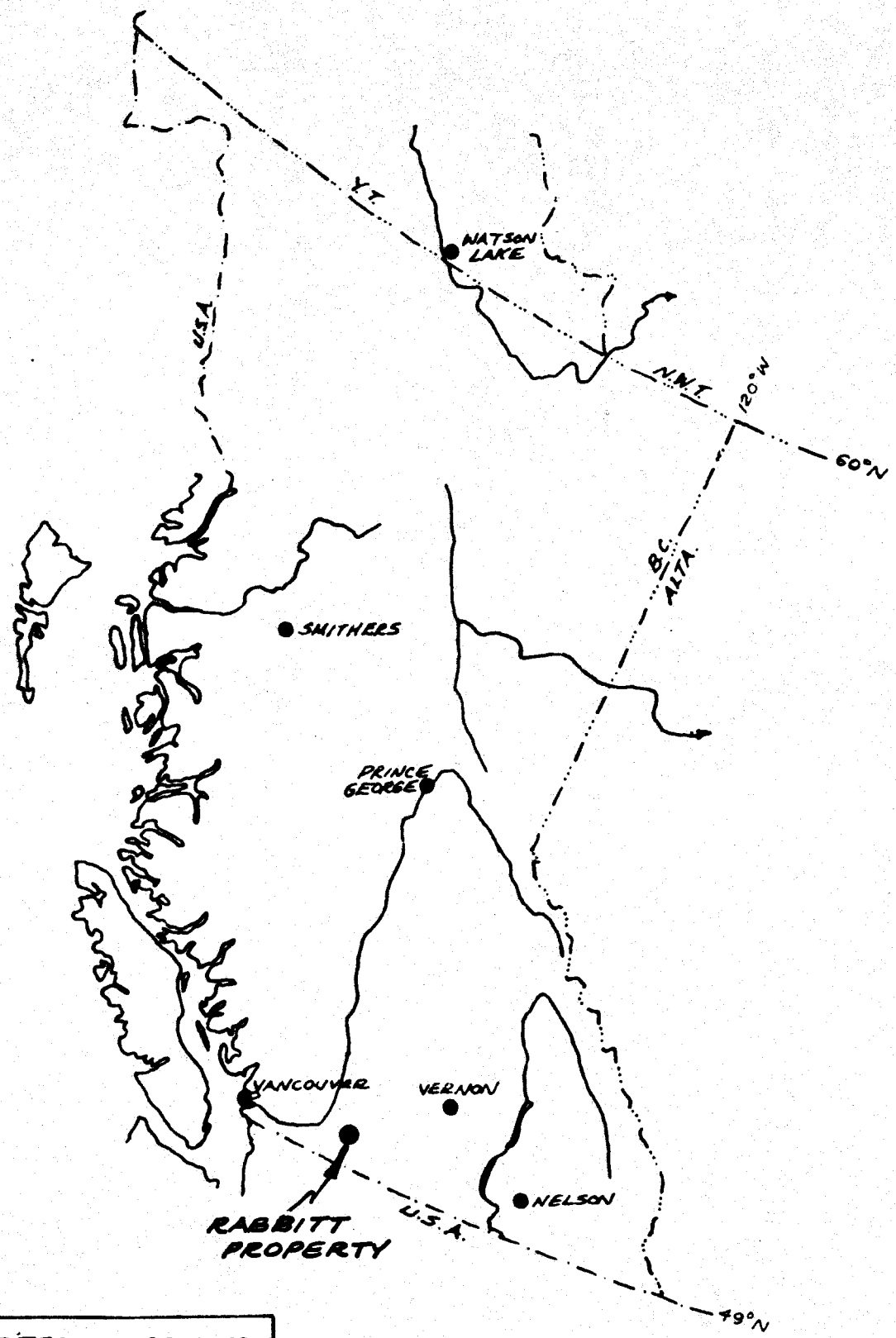
The claims extend north from the Lawless Creek logging road, 2.5 to 5.0 km west of Tulameen, to Elliot Creek, 1.5 km west of Frembd Lake in the Otter Valley, a total distance of 7 km. Lockie (Boulder) Creek, an easterly flowing tributary of Otter Creek, bisects the claim block. The RABBITT 1-4 claims are located south of Lockie Creek and the BOULDER 1-2 claims and the 11 reverted Crown-granted claims are located north of the creek.

The upper slopes of Rabbitt and Boulder Mountains are gently sloping with some deeply incised canyons. The slopes of the valleys of Tulameen River, Otter Valley and Lockie Creeks, are steep to precipitous. Elevations vary from a minimum of 470 metres above sea level in Lockie Creek to slightly over 1500 metres on Rabbitt and Boulder Mountains.

Access to the various showings is provided by steep four-wheel drive bush roads at the north and south ends of the property. The Rabbitt Mountain area is accessible by a network of roads which leave the main Lawless Creek road between 3.5 and 8.0 km west of Tulameen. The Boulder Mountain area is reached by a road which leaves the Tulameen-Aspen Grove highway 7.5 km north of Tulameen. A foot trail across Lockie Creek connects the two parts of the property.

The nearest supply centre, the town of Princeton on the Southern

Trans-Provincial Highway, is 27 km by paved highway southeast of Tulameen. The Canadian Pacific Railway follows the Otter Valley immediately east of the property.



BRICAN RESOURCES LTD

K.L. DAUGHTRY & ASSOC. LTD.

LOCATION MAP

RABBITT PROPERTY

FEBRUARY, 1985.

FIG. NO. 1

PROPERTY

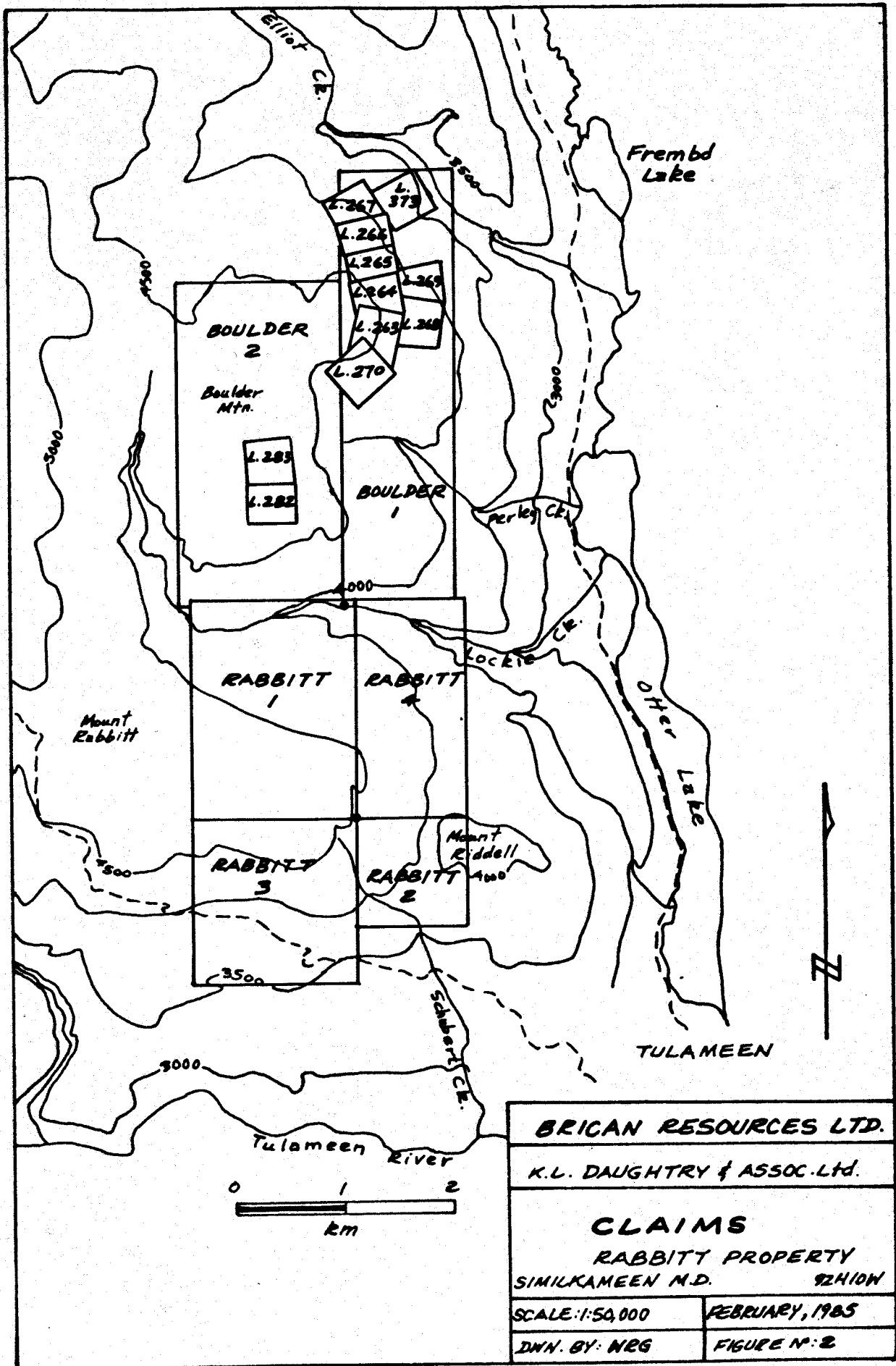
The RABBITT property consists of 6 located claims, comprising of a total of 67 units, and 11 reverted Crown-granted claims. All claims except the Cousin Jack are owned by Harold J. Adams of P.O. Box 1329, Princeton, B.C. Kenam Resources Ltd. acquired an option to purchase the claims from Mr. Adams in September, 1979 and assigned the option to Brican Resources Ltd. in February, 1980. Brican obtained an option to purchase the Cousin Jack from Keith R. George of Box 376, Keremeos, B.C. on April 28, 1982.

The pertinent record information for all claims is as follows:

<u>Name of Claim</u>	<u>No. of Units</u>	<u>Record Number</u>	<u>Date of Record</u>	<u>Expiry Date</u>
RABBITT 1	12	944	Nov. 29, 1979	Nov. 29, 1985
RABBITT 2	4	945	Nov. 29, 1979	Nov. 29, 1985
RABBITT 3	9	946	Nov. 29, 1979	Nov. 29, 1985
RABBITT 4	8	947	Nov. 29, 1979	Nov. 29, 1985
BOULDER 1	16	948	Nov. 29, 1979	Nov. 29, 1985
BOULDER 2	18	949	Nov. 29, 1979	Nov. 29, 1985
ANACONDA (L 373)	1	260	August 26, 1977	August 26, 1985
BERLIN FR (L 269)	1	258	August 26, 1977	August 26, 1985
BLACK BIRD (L 268)	1	257	August 26, 1977	August 26, 1985
CONSTITUTION (L 282)	1	298	February 20, 1978	February 20, 1986
COUSIN JACK (L 263)	1	1045	June 2, 1980	June 2, 1988



FREDDIE BURN (L 270)	1	259	August 26, 1977	August 26, 1985
INTERNATIONAL (L 283)	1	297	February 20, 1978	February 20, 1986
MORNING (L 265)	1	264	August 26, 1977	August 26, 1985
OSHKOSH (L 266)	1	263	August 26, 1977	August 26, 1985
WINNIBAGO (L 267)	1	261	August 26, 1977	August 26, 1985
YMIR (L 264)	1	262	August 26, 1977	August 26, 1985



HISTORY

The Tulameen district has had a long history of mining and mineral exploration. Placer gold was discovered on Granite Creek in 1885 and to date 38,000 ounces of gold have been recovered from the Tulameen River and its tributaries. One such placer creek is Lockie (Boulder) Creek, an easterly flowing tributary of Otter Creek that bisects the RABBITT Property. Early placer mining on Lockie Creek in the late 1800's led to the discovery of copper-pyrite showings on Rabbitt and Boulder Mountains.

In 1900 several claims were staked on showings of heavy pyrite-chalcopyrite mineralization in metavolcanic rocks on Boulder Mountain. By 1905 the Boulder Mining Company had developed several shafts and tunnels, and had applied for Crown-grants on the claims. Most of the work was on the COUSIN JACK, FREDDIE BURN and INTERNATIONAL (SOUTH COPPER) claim groups. The major values of the mineralization were in gold, silver and copper.

By 1908 showings had been discovered on Rabbitt Mountain and near Elliot Creek, north of the COUSIN JACK. Operators had recognized by then that many of the scattered showings were correlative with respect to geologic setting and mineralogy.

Between 1908 and 1918 little work was carried out. In 1918 extensive surface and underground exploration resumed on the Rabbitt Mountain showings, including the SPOKANE-MOTHERLODE, RED BIRD and SHAMROCK groups. These occurrences were described as replacement bodies accompanied by silicification and were thought to be genetically related to a system of granite porphyry dykes. Several "veins" had been discovered by this time, which could be traced along

strike for hundreds of feet, but average widths and grades were disappointing.

By 1928, numerous mineralized zones had been discovered and explored along a strike length of 4 miles. Exploration was concentrated on the Rabbitt Mountain showings. The concordant nature of the "veins" had been recognized and lower-grade fracture controlled mineralization was noted. Exploration was concentrated in the Rabbitt Mountain showings (SPOKANE, MOTHERLODE, RED BIRD and LLOYD GEORGE-HILLTOP).

In 1933, attention shifted to Boulder Mountain and the COUSIN JACK group. Old workings were cleared and mapped and four sub-parallel veins were noted in an area 2400 feet (730 metres) wide. Similar mineralization was discovered to the west on the OTTAWA group. These veins carried values in gold, silver, lead and zinc. By 1934, nearly 2500 feet (760 metres) of strike length had been developed on the COUSIN JACK group by numerous open cuts, shallow shafts and tunnels.

In 1937, detailed exploration on the COUSIN JACK group had defined the four main zones and it had been recognized that mineralization (pyrite, sphalerite and galena) occurred in both concordant and discordant quartz veins and stringers in altered and silicified greenstone and that this mode of occurrence differed from the pyrite-chalcopyrite sulphide layers characteristic of other properties in the area.

There is no record of any further substantial exploration in the area until the early 1960's when Copper Mountain Consolidated Ltd. carried out bulldozer trenching near the old workings on Rabbitt Mountain and diamond drilled 5 holes totalling 1250 feet (381 metres). In 1966-68 this company continued to explore the LODE claims by bulldozer trenching, geophysical and geochemical surveys. In 1966-67, Nelway Mines Ltd. acquired and explored the COUSIN JACK group with

geochemical surveys and diamond drilling.

Between 1971 and 1974 Gold River Mines Ltd. explored a large claim block on Boulder Mountain which included the South Copper, Mid-Copper, Cousin Jack, Mug and Josie areas. Extensive line cutting, soil sampling, magnetometer and VLF-EM surveys were conducted, and 33 holes totalling 5800 feet (1768 metres) were drilled. Apparently some of this work was directed towards evaluation of the property as a porphyry copper prospect. The precious metal potential of the Cousin Jack showings was also tested by drilling.

In 1976, Harold Adams of Tulameen staked a large block of JOHN-X and JAME-X claims covering all known showings on Rabbitt and Boulder Mountains (except those on the old COUSIN JACK group and INTERNATIONAL-CONSTITUTIONAL Crown grants).

In 1978 Northern Lights Resources Ltd. optioned the JOHN-X and JAME-X claim blocks from Harold Adams and his partner J. Ambrosimo. Northern Lights conducted a ground magnetometer survey over the Rabbitt Mountain showings and drilled two diamond drill holes, totalling 122 metres, north of the South Copper showing on Boulder Mountain.

Kenam Resources Ltd. optioned the claim block from Mr. Adams in September, 1979 and began a programme of detailed geological mapping of the various showings in conjunction with Ventures West Minerals Ltd.

Kenam entered a joint venture with Ventures West Minerals Ltd. in the autumn of 1979. The original JOHN-X and JAME-X claims were abandoned and relocated as the RABBITT 1-4 and BOULDER 1-2 claims. A reconnaissance exploration programme was carried out in October and November, 1979.

Preliminary geological mapping, geochemical soil sampling and ground magnetometer surveys were conducted over most of the property. Control was

provided by a flagged grid with widely spaced lines.

No significant follow-up work was carried out and Ventures West Minerals Ltd. withdrew from the joint venture in December, 1981. Brican Resources Ltd. had acquired Kenam's interest in February, 1980.

Brican maintained the option and in 1982 began a programme of systematic surface exploration. In April, 1982, Brican acquired an option to purchase the COUSIN JACK reverted Crown-granted claim from Keith R. George, Box 376, Keremeos, B.C.

From 1982 to 1984, Brican has conducted geochemical and geophysical surveys on various parts of the property. Some of the targets generated by the surveys have been partially tested by backhoe trenches.

In 1984, a lithochemical survey was conducted over parts of the property and a detailed magnetometer survey was completed over the MID-COPPER area. The results of this work are presented in this report.

GEOLOGY

The RABBITT property is on the western flank of the Intermontane Belt about 6 km east of the Coast Crystalline Belt. The regional geology has been described in detail by Camsell (1913), Rice (1947), and Preto (1976, 1979).

The property is predominantly underlain by volcanic rocks of the Upper Triassic Nicola Group. The rocks of the Rabbitt Mountain area are tentatively correlated with Preto's Western Belt of the Nicola Group, an assemblage of andesitic to rhyolitic flows, pyroclastic, volcanoclastic and limestone units.

The Nicola volcanic rocks have been subjected to low grade regional metamorphism and intruded by Mesozoic and Tertiary plutons.

The limited geological mapping carried out by previous workers indicates that the RABBITT property is underlain by a northerly-trending, west-dipping sequence of andesite flows, breccias, and tuffs, dacite breccias and tuffs, and rhyolite to rhyodacite tuff. Hypabyssal plugs, dykes and sills of ultramafic to felsic composition are common. Granitic rocks of the Boulder and Otter plutons, of Mesozoic and Tertiary age respectively, intrude the volcanic rocks along the east margin of the claim block.

Numerous mineral showings indicate the presence of two types of mineralization over large parts of the property:

1. Stratabound and stratiform copper-pyrite mineralization is associated with felsic tuffs and breccias in one or more horizons throughout the western part of the property.
2. Numerous concordant and discordant bands of silica mineralized with sphalerite, galena and pyrite, and carrying significant gold and silver values,

are associated with a leucocratic pyritic pyroclastic unit in the northeast part of the property.

The geological setting and the nature of the mineralization suggests that the RABBITT property is underlain by a large intermediate to felsic volcanic centre within the Nicola Group. Exploration should be directed toward the discovery of volcanogenic base and precious metal deposits.



LITHOGEOCHEMICAL SURVEYS

The rock geochemistry survey was carried out with the intent of gathering a set of geochemical data on the volcanic rocks hosting the Rabbitt Mountain mineral occurrences, the altered rocks in the areas of mineralization, and on the mineralized rocks themselves.

A total of 52 rock samples was collected: 10 samples are representative of various lithologic types, 9 samples are of various types of alteration, and the remaining 33 samples are of mineralization. Sample locations are shown on Figures 3a and 3b, and lithologic descriptions are presented below in Table 1.

The samples of various rock types were submitted to Acme Analytical Laboratories Ltd. of Vancouver for ICP Whole Rock analyses for  $\text{SiO}_2$ ,  $\text{Al}_2\text{O}_3$ ,  $\text{Fe}_2\text{O}_3$ ,  $\text{MgO}$ ,  $\text{CaO}$ ,  $\text{Na}_2\text{O}$ ,  $\text{K}_2\text{O}$ ,  $\text{TiO}_2$ ,  $\text{P}_2\text{O}_5$ ,  $\text{MnO}$ ,  $\text{Cr}_2\text{O}_3$ ,  $\text{Ba}$ , and Loss on Ignition. Analytical results are presented below in Table 3.

Most of the rocks designated in the field as andesitic appear to be latites on the basis of the chemical analyses. However, the potassium content is much lower, and the magnesium and iron are much higher than in normal latites. Sample 6555 has a mafic composition while Sample 6565 is a dacite. All rocks are unusually rich in iron.

Five of the altered rocks were also submitted to Acme for ICP Whole Rock analyses as above. The remaining altered and mineralized samples were submitted to Acme for ICP assay or geochemical analyses for a large suite of elements (Tables 2,4).

The analytical procedure for each type of analysis is described on each of the accompanying Tables.

Alteration associated with mineralization has resulted in an enrichment of silica, potassium and barium and a depletion of aluminum, iron, magnesium, calcium and manganese. The most intense alteration has resulted in the development of a leucocratic quartz and sericite-rich foliated rock.

Samples of mineralized rock can be allotted to one of two suites: a pyrite-chalcopyrite facies of siliceous, statiform mineralization, and a pyrite-sphalerite-galena facies occurring in discrete layers or veins of silica.

The first type of mineralization is high in copper, silver, iron and occasionally gold, and low in nickel, chromium, cadmium, bismuth, uranium, thorium, barium, tungsten and antimony. (The Hilltop showing is also high in lead, zinc and cadmium).

The second type of mineralization is high in lead, zinc, silver, gold, antimony, mercury and cadmium and low in copper, nickel, cobalt, chromium, bismuth, uranium, thorium, tungsten and tin.

In general, the lithochemical data suggests a volcanogenic origin for the mineralization.

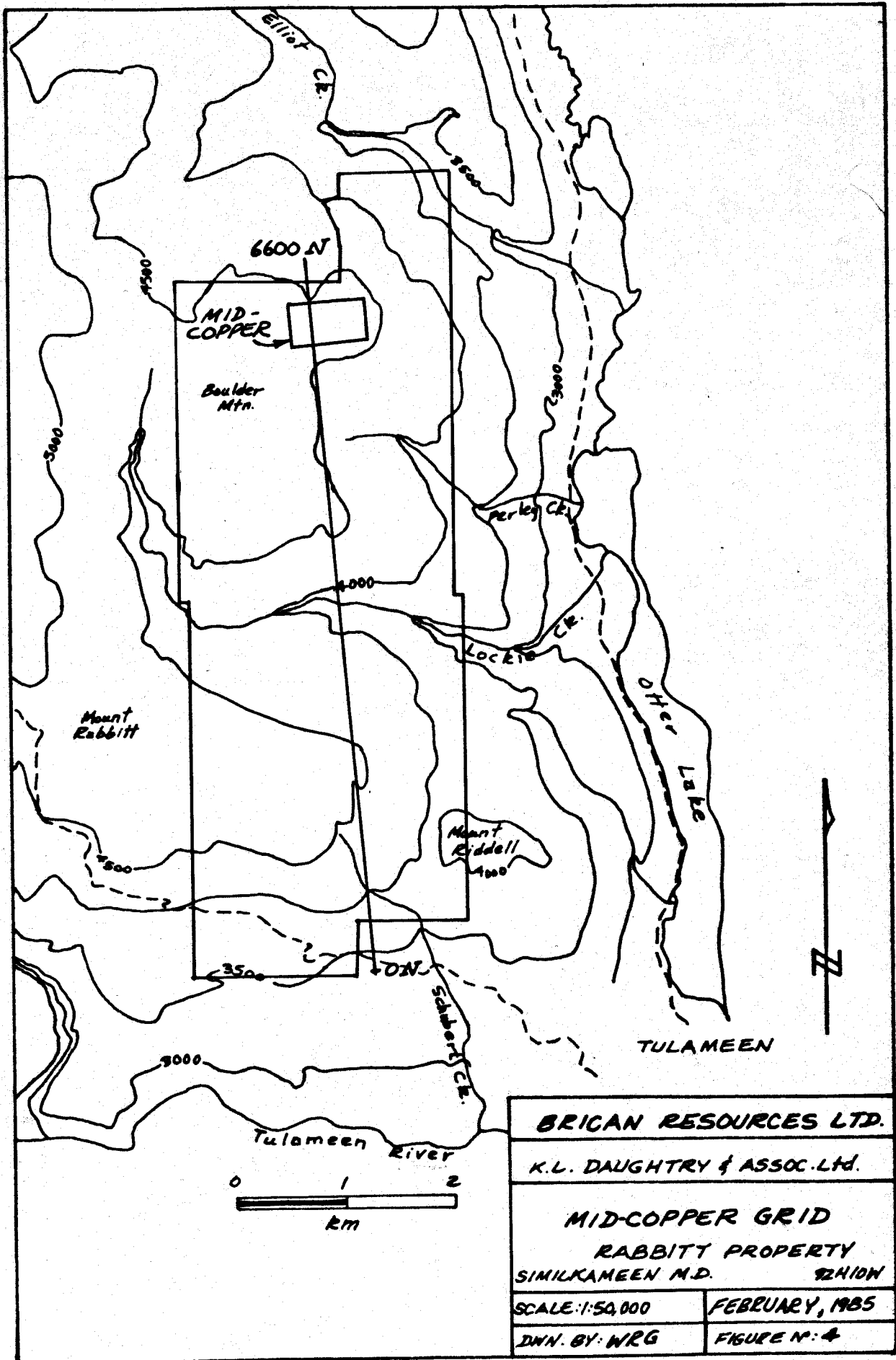


Table 1  
Rock Sample Descriptions

<u>Sample No</u>	<u>Location</u>	<u>Description</u>
6555	Lawless Ck road	andesite porphyry
6556	Lawless Ck road	quartz sericite schist; py & mag gossan
6557	Western access rd	volcanoclastic breccia
6558	Lawless Ck road	chloritic volcanoclastic
6559	Lawless Ck road	silicic altered volcanoclastic(?); epidote knots
6560	Lawless Ck road	fresh, massive, f.g. andesite flows
6561	Lawless Ck road	slightly altered silicified and pyritized felsic debris flow
6562	Lawless Ck road	feldspar porphyry feeder dyke to overlying flows
6563	Lawless Ck road	chert and siltstone interbedded with volcanoclastics
6564	Lawless Ck road	chloritic andesite tuff
6565	Southern access rd	limonitic, massive andesite; minor quartz eyes
6566	Motherlode	massive pyrite with minor sph, ga
6567	Motherlode	massive pyrite (.5 m thick) in andesite with sph
6568	Spokane	pyritic-sericitic-silicic tuff; 2 m chip
6569	Spokane	massive py; grab over 1 m
6570	Spokane	sericitic stockwork feeder(?); f.w. of 6569; 3 m chip
6571	Spokane	py, +/- cpy stockwork on strike from 6569

Table 1 (cont'd)

6572	Spokane	0.5 m cherty silica (exhalite?), some sulphides; stratigraphically equivalent of 6569; 0.5 m chip
6573	Spokane	sericite schist, highly altered and leached, limonitic; 1 m chip; f.w. to 6572
6574	Spokane	silicified felsic(?) tuff; h.w. to 6572 grab over 2 m
6575	Spokane	sulphide stockwork, highly altered and surface leached with minor cpy; h.w. to 6574; grab over 3 m
6576	Hilltop	massive sulphide with cpy, ga; grab
6577	Hilltop	sulphide zone; 1 m chip
6578	Redbird	high grade copper with seritic alteration from adit; grab
6579	Thynne	high grade copper from 1 to 2 m thick sulphide/silicate zone
6580	Thynne	sulphide/silicate zone within andesite tuffs; minor cpy
6581	Thynne	sulphide/silicate zone
6582	International	pyrite rich, cpy poor stratabound(?) silicate zone; h.w. is andesite tuff f.w. is andesite debris flow
6583	International	high grade cpy; looks like wispy replacement of mafic volcanics
6584	International	selected core from 1972 drilling
6585	Mid-Copper	calcareous(?) andesite
6586	Mid-Copper	mildly calcareous andesite tuff-h.w. to felsic/silica dome
6587	Eagle Bay	chalcedonic veining in silicified tuff
6588	Cousin Jack	1 m quartz vein(?) cross-cutting sericitized andesite tuff; sph, ga

Table 1 (cont'd)

6589	Cousin Jack	2 m chip; "f.w." to 6588
6590	Cousin Jack	pyritic (15-20%) felsic tuff
6593	Cousin Jack	high grade
54273	Hilltop	andesitic fragmental volcanic with cpy
54274	Thynne	fragmental volcanic with cpy
54275	Thynne	
54276	Redbird	f.w. sericite schist; 1.8 m chip
54277	Motherlode	lower adit; grab
54278	Spokane	siliceous pyritic rock; 0.3 m chip
54279	Spokane	ferricrete
54280	International	cpy, py in fractures
54281	International	sheared volcanics; 2.5 cm py bed
54282	International	massive py in volcanic
54283	Mid-Copper	rhyolite dome
54284	Cousin Jack	main trench; quartz & pyrite; 0.3 m chip
54285	Cousin Jack	grab; 60 m south of 54284
54286	Cousin Jack	0.3 chip; 30 m south of 54284
54287	Cousin Jack	siliceous and pyritic rock; 0.9 m chip from adit

See Figures 3a, 3b for sample locations  
 See Tables 2, 3, 4 for analytical results

Table 2

ACME ANALYTICAL LABORATORIES LTD.  
 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
 PHONE 253-3158 TELEX 04-53124

DATE RECEIVED: JUNE 8 1984

DATE REPORT MAILED: *June 20/84*

**ASSAY ICP ANALYSIS**

1.00 GRAM OF SAMPLE IS DIGESTED WITH 50ML OF 3-1-3 OF HCL-HNO3-H2O AT 95 DEG. OF WATER BATH FOR ONE HOUR AND IS DILUTED TO 100ML WITH WATER. THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB.AND TA. DETECTION LIMIT FOR MOST METALS IS .01% SAMPLE TYPE: ROCK CHIPS *Ag & Au by Fire Assay*

ASSAYER: *[Signature]* DEAN TOYE, CERTIFIED B.C. ASSAYER

HOMESTAKE MINERALS PROJECT # BR-03-5710 FILE # 84-1019 PAGE

SAMPLE#	CU %	PB %	ZN %	AG** OZ/T	AS %	SB %	AU** OZ/T	SN %
BR-03-4-6566	1.70	.12	.47	.52	.03	.001	.010	.001
BR-03-4-6567	.51	.01	.28	.31	.01	.001	.008	.001
BR-03-4-6568	.17	.01	.02	.03	.01	.001	.001	.001
BR-03-4-6569	.13	.01	.02	.30	.01	.001	.004	.001
BR-03-4-6570	.10	.01	.02	.02	.01	.001	.001	.001
BR-03-4-6571	.56	.01	.01	.07	.01	.001	.001	.001
BR-03-4-6572	.29	.01	.01	.14	.01	.001	.001	.001
BR-03-4-6573	.09	.01	.05	.04	.02	.001	.003	.001
BR-03-4-6574	.39	.01	.01	.09	.01	.001	.002	.001
BR-03-4-6576	2.86	.10	.06	.36	.01	.001	.001	.001
BR-03-4-6577	2.13	.03	.32	.73	.01	.002	.002	.001
BR-03-4-6578	6.06	.05	.06	1.88	.01	.001	.012	.001
BR-03-4-6579	9.54	.01	.01	.32	.01	.001	.001	.001
BR-03-4-6580	5.46	.01	.01	.32	.01	.001	.001	.001
BR-03-4-6581	.33	.01	.01	.17	.01	.001	.004	.001
BR-03-4-6582	.72	.01	.01	.10	.01	.001	.001	.001
BR-03-4-6583	8.58	.01	.02	.85	.01	.001	.001	.001
BR-03-4-6584	.08	.21	1.34	.07	.01	.005	.009	.001
BR-03-4-6588	.09	1.22	12.49	.58	.01	.001	.169	.001
BR-03-4-6589	.01	.01	.05	.02	.01	.001	.001	.001
BR-03-4-6590	.01	.01	.05	.03	.01	.001	.001	.001
BR-03-4-6593	.32	1.97	3.47	25.28	.03	.265	.007	.001
STD C-R	1.07	1.08	2.00	5.50	.07	.296	-	-

RECEIVED  
 JUN 20 1984  
 J. T. ABBOTT

*[Signature]*

Table 3

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS, VANCOUVER B.C. PH:253-3158 TELEX:04-53124

ICP WHOLE ROCK ANALYSIS

A .1000 GRAM SAMPLE IS FUSED WITH .60 GRAM OF LiBO2 AND IS DISSOLVED IN 100 ULS OF 5% HNO3.

SAMPLE TYPE - ROCK CHIPS

DATE RECEIVED JUNE 8 1984 DATE REPORTS MAILED June 12/84 ASSAYER D. J. J. DEAN TOYE, CERTIFIED B.C. ASSAYER

HOMESTAKE MINERAL PROJECT # BR-03-5710 FILE # 84-1021

PAGE # :

SAMPLE #	SiO2 %	AL2O3 %	FE2O3 %	MGO %	CAO %	NA2O %	K2O %	TiO2 %	P2O5 %	MNO %	CR2O3 %	LOI %	BA PPM	SUM
BR-03-4-6555	44.40	19.08	11.78	4.29	14.53	1.77	.01	1.45	.53	.22	.01	3.5	61	101.64
BR-03-4-6556	72.54	16.39	.61	.50	.30	1.10	5.10	.56	.14	.01	.01	2.4	522	99.77
BR-03-4-6557	52.46	17.00	8.05	5.34	4.80	4.19	.51	1.36	.48	.17	.01	4.7	153	99.19
BR-03-4-6558	57.67	16.26	7.75	3.47	5.29	3.45	.70	1.11	.40	.13	.01	3.5	132	99.87
BR-03-4-6559	67.39	15.64	2.36	1.46	4.14	6.22	.01	.71	.12	.06	.01	1.8	403	99.95
BR-03-4-6560	52.70	16.57	8.94	3.95	5.83	4.66	.50	1.29	.30	.22	.01	2.4	127	97.46
STD SO-4	65.75	10.39	3.90	.88	1.61	1.54	2.25	.58	.20	.10	.01	10.0	645	97.31
BR-03-4-6561	68.69	16.26	2.93	1.41	1.45	4.85	1.43	.72	.20	.07	.01	1.7	286	99.85
BR-03-4-6563	65.81	13.23	5.58	2.84	3.09	4.50	.08	.51	.12	.14	.01	3.3	70	99.26
BR-03-4-6564	57.25	16.50	7.01	3.47	4.69	4.50	.69	1.10	.22	.15	.01	4.4	128	100.07
BR-03-4-6565	62.96	16.83	6.05	1.56	.75	4.87	2.36	1.06	.30	.10	.01	3.7	236	100.68
BR-03-4-6585	57.05	17.43	7.25	2.12	7.01	3.66	.48	.56	.27	.17	.01	5.0	328	101.09
BR-03-4-6586	65.15	14.82	5.33	2.33	1.58	4.64	1.12	.70	.10	.32	.01	3.5	240	99.70

RECEIVED  
JUN 19 1984  
J. T. ABBOTT





Table 4

JUN 18 1984

ACME ANALYTICAL LABORATORIES LTD.

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE 253-3158

DATA LINE <sup>DMF</sup> 251-1011

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-3 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR MN, FE, CA, P, CR, MG, BA, TI, B, AL, NA, K, W, SI, ZR, CE, SN, Y, NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.  
 - SAMPLE TYPE: P1-2 ROCK P3-4 SOIL AU11 ANALYSIS BY FA+AA FROM 10 GRAM SAMPLE. HG ANALYSIS BY FLAMELESS AA.

DATE RECEIVED: JUNE 13 1984 DATE REPORT MAILED: *June 15/84* ASSAYER: *D. J. ...* DEAN TOYE, CERTIFIED B.C. ASSAYER

ASARCO EXPLORATION PROPERTY # RABBIT [REDACTED] FILE # 84-107B PAGE 1

SAMPLE#	NO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	HG	BA	TI	B	AL	NA	K	W	AU11	HG
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM	PPM	
54273	4	7733	297	206	8.7	3	28	185	10.25	18	2	ND	2	5	1	2	2	9	.02	.02	2	1	.10	10	.01	7	.28	.01	.20	2	31	130
54274	20	6461	16	72	4.8	9	29	221	9.15	15	2	ND	2	2	1	2	7	9	.04	.01	4	2	.20	14	.01	8	.37	.01	.10	2	53	100
54275	12	1065	15	89	1.6	10	39	706	15.33	28	2	ND	2	18	1	2	10	21	.07	.07	8	12	.51	12	.01	8	.69	.01	.14	2	63	10
54276	35	8275	335	650	15.6	13	19	1103	9.55	74	2	ND	2	22	4	2	6	13	.70	.06	7	9	.61	18	.01	3	.93	.01	.15	2	225	5
54277	78	8761	2552	4444	13.3	6	69	505	15.87	67	2	ND	2	47	34	3	9	7	1.44	.01	7	1	.27	6	.01	4	.01	.01	.04	2	240	60
54278	34	634	31	75	3.8	2	3	73	5.49	44	2	ND	2	2	2	2	2	3	.03	.01	2	1	.02	23	.01	3	.12	.01	.03	2	45	5
54279	1	1451	104	194	2.0	5	5	133	23.75	30	2	ND	4	50	1	2	2	39	.01	.11	9	9	.06	103	.01	6	.01	.01	.29	2	15	50
54280	1	22738	18	37	9.9	3	17	229	13.68	8	2	ND	2	2	1	2	11	10	.02	.01	4	1	.17	12	.01	9	.27	.01	.06	2	21	5
54281	1	12648	22	28	9.5	3	54	160	18.46	15	2	ND	2	2	1	2	4	6	.03	.01	4	1	.11	5	.01	9	.01	.01	.07	2	120	30
54282	1	939	17	22	1.8	3	36	49	16.61	10	2	ND	2	2	1	2	4	3	.01	.01	7	1	.03	6	.01	9	.01	.01	.06	2	18	5
54283	1	39	1	23	.1	2	7	304	1.16	2	2	ND	2	10	1	2	2	7	.19	.05	4	1	.19	116	.01	3	.28	.04	.03	2	1	40
54284	2	1256	6184	25867	2.7	2	2	252	3.00	76	2	ND	2	16	86	41	4	3	.15	.01	2	2	.07	21	.01	2	.15	.01	.06	8	110	4100
54285	7	62	150	184	.8	1	1	44	.89	13	2	ND	2	12	1	34	2	2	.01	.02	2	1	.01	53	.01	3	.07	.01	.04	3	5	100
54286	4	465	2155	4441	2.5	2	4	1562	1.66	6	2	ND	2	7	17	3	2	5	.32	.01	2	1	.20	27	.01	3	.20	.01	.02	2	420	90
54287	1	1861	8070	76657	12.9	1	2	1906	3.92	26	2	2	2	18	454	2	10	22	.45	.01	4	1	.95	12	.01	2	1.09	.01	.01	2	2450	1200

MAGNETOMETER SURVEYGeneral

In 1979, a reconnaissance ground magnetometer survey was run over part of the recce grid. Magnetic variation was found to be minimal over all lines surveyed, and the survey was terminated before completion.

In 1982, a reconnaissance magnetometer survey was carried out over the property to establish any possible regional gradient and to locate any possible anomalous areas not indicated by the previous work. The survey lines were run at approximate right angles to the trace of the stratigraphy. The general geological strike is north-south although flat-dipping attitudes and topographic variations give northwest to northeast stratigraphic traces. The magnetic response is generally very flat and ranges from 57,000 to 57,500 gammas. Significant anomalous readings occur near the baseline on lines 52+00N and 60+00N.

The 1984 magnetometer survey was conducted to provide detailed data on the anomaly on line 60+00N.

Mid-Copper Grid

A flagged grid totalling 6.3 line-kilometres was established in the area of the anomaly on line 60+00N. East-west lines 50 metres apart were run between 58+00N and 62+00N from 2+00W to 5+00E. Stations were flagged every 10 metres along the lines. The grid was tied to the main property baseline and to the Cousin Jack grid to the east.

Readings were taken every 10 metres along the lines using the Geometrics Unimag II model G-846 proton magnetometer, diurnal variations were recorded

through the use of a base station and field readings were corrected for the relatively minor variations observed. Corrected readings are plotted on Figure 5.

The magnetic response has low relief with total field readings generally varying from 57,100 to 57,500 gammas. A gentle regional gradient increasing from southwest to northeast is apparent (Figure 7).

Normally-weighted running means were calculated by computer to facilitate contouring (Figure 7). The means were calculated along grid lines, generally corresponding to profiles across the strike of the geology. The normally-weighted running mean(x) for a reading (D) is calculated as follows:

$$x=A(.016)+B(.094)+C(.234)+D(.312)+E(.234)+F(.094)+G(.016)$$

where C and E are readings adjacent to D, etcetera.

A single strong, linear north-trending magnetic anomaly was defined coinciding with the original anomalous area on line 60+00N a short distance east of the base line (Figure 6,7). Local magnetic relief in the anomalous area is up to 3500 gammas with readings varying from 56,100 to 59,600 gammas.

The occurrence of the magnetic anomaly is generally co-incident with the strike of the underlying volcanic rocks. The location of the anomaly near the rhyolite dome at the MID-COPPER showing, and parallel to a strong copper soil anomaly on the Cousin Jack grid to the east warrants further investigation. Cobbles of massive magnetite associated with coarse gold have been found in Lockie (Boulder) Creek to the southeast, and the magnetic anomaly may be related to a magnetite-rich horizon within the volcanic stratigraphy.

TRENCHING

A John Deere 450 track-mounted backhoe was brought in to the property to trench the magnetic target defined by the magnetometer survey. After completing some road repair, the backhoe began trenching on the Mid-Copper grid. The first trench at 1+10E near line 61+00N failed to reach bedrock (Figure 8). The second trench was excavated from 0+65E to 1+15E near line 59+50N near the highest magnetometer readings. A green pyritic volcanic rock was exposed in the trench.

Due to unusually early heavy snowfalls, the trenching programme was terminated and will resume in 1985.

CONCLUSIONS AND RECOMMENDATIONS

The lithochemical survey indicated that the iron-rich volcanic rocks hosting the Rabbitt property showings range from basalt to rhyolite in composition, with most rocks having a latite composition. Alteration accompanying mineralization has resulted in an enrichment in silica, potassium and barium, and a depletion of aluminum, iron, magnesium, calcium and manganese.

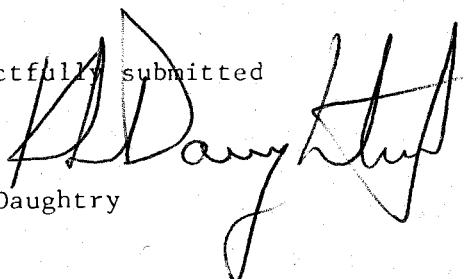
Two types of mineralization occur: a pyrite-chalcopyrite type with high geochemical values in copper, silver, and occasionally gold, and a pyrite-sphalerite-galena type with high geochemical values in zinc, lead, silver, gold, antimony, mercury and cadmium. Tungsten, tin, nickel, chromium, cobalt, bismuth, uranium and thorium are low in both types.

In general, the lithochemical survey indicates a volcanogenic origin for the mineralization.

The magnetometer survey defined a strong linear magnetic anomaly at least 400 m long in the MID-COPPER area.

Continued exploration by geological mapping, geochemical and geophysical surveys and backhoe trenching is definitely recommended.

Respectfully submitted

  
K.L. Daughtry

Vernon, B.C.

February 18, 1985

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Statement of Costs

1.) Professional Services		
K.L. Daughtry		
5 days @ \$300/day	\$1500.00	
May 30, 31, June 5		
plus report writing, supervision		
D.M. Fletcher		
1 day @ \$275/day	275.00	
June 5		
J.F. Gillan		
2 days @ \$275/day	550.00	
May 30, 31		
W.R. Gilmour		
2 days @ \$250/day		
report writing	<u>500.00</u>	\$2825.00
2. Labour		
J. Osterhagen		
8 days @ \$175/day	1400.00	
Oct. 27-Nov. 3		
C. Lynes		
6 days @ \$125/day	<u>750.00</u>	2150.00
3. Accommodation, meals		
May 30, 31, June 5		
6 man-days @ \$50/day	300.00	
Oct. 27 - Nov. 3		
14 man-days @ \$40/day	<u>560.00</u>	860.00
4. Transportation		
May 30, 31, June		
3 days 4 X 4 Jimmy @ \$60/day	180.00	
Oct. 27 - Nov. 3		
8 days 4 X 4 Jimmy @ \$50/day	<u>400.00</u>	580.00
5. Analysis		
ICP 30 elements		
15 samples @ \$6.00	90.00	
Whole rock (major elements)		
12 samples @ \$12.00	144.00	

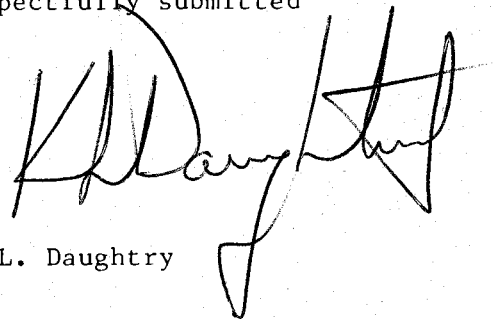
Assays		
22 Cu,Pb,Zn,As,Sb @ \$20.00	440.00	
22 Au,Ag @ \$12.50	275.00	
22 Sn @ \$8.00	176.00	
Rock preparation		
49 samples @ \$2.75	<u>134.75</u>	1259.75
6. Field supplies		50.00
7. Magnetometer rental		
2 days @ \$25/day		50.00
8. Chain saw rental		
4 days @ \$15/day		60.00
9. Secretarial, office, printing		<u>200.00</u>
	TOTAL	\$8034.75

STATEMENT OF QUALIFICATIONS

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

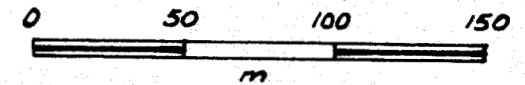
1. I am a Consulting Geologist in mineral exploration.
2. I have been practising my profession for twenty years in Canada, the United States and Ireland.
3. I am a graduate of Carleton University, Ottawa, with a Bachelor of Science degree in Geology and Chemistry.
4. I am a member of the Associations 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 RABBITT property gained from personal experience and involvement in all aspects of the exploration programme described herein.
6. I hold a beneficial interest in the RABBITT property.
7. I am a Director of Brican Resources Ltd., which company holds a beneficial interest in the property.

Respectfully submitted



K.L. Daughtry

# 13,396



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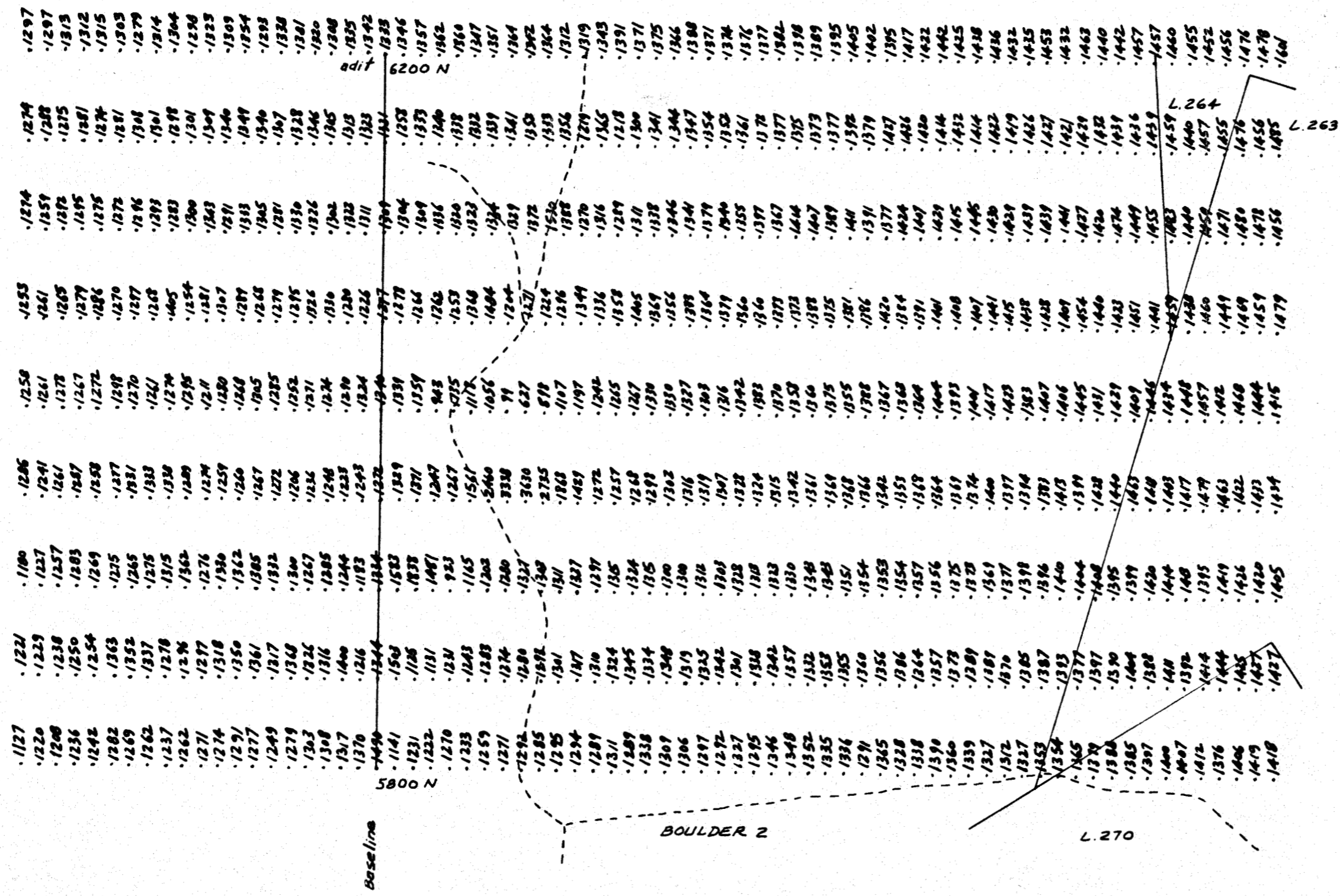
READINGS  
 MAGNETOMETER SURVEY  
 RABBITT PROPERTY

SIMILKAMEEN M.D. 92H10W

SCALE: 1:2500  
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 FEBRUARY, 1985  
 FIGURE N°: 5

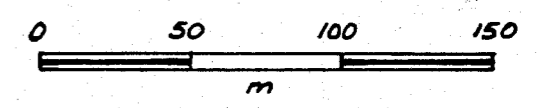
1000 REPRESENTS 57,000'

INSTRUMENT: GEOMETRICS UNIMAG II  
 PROTON MAGNETOMETER  
 MODEL G-846



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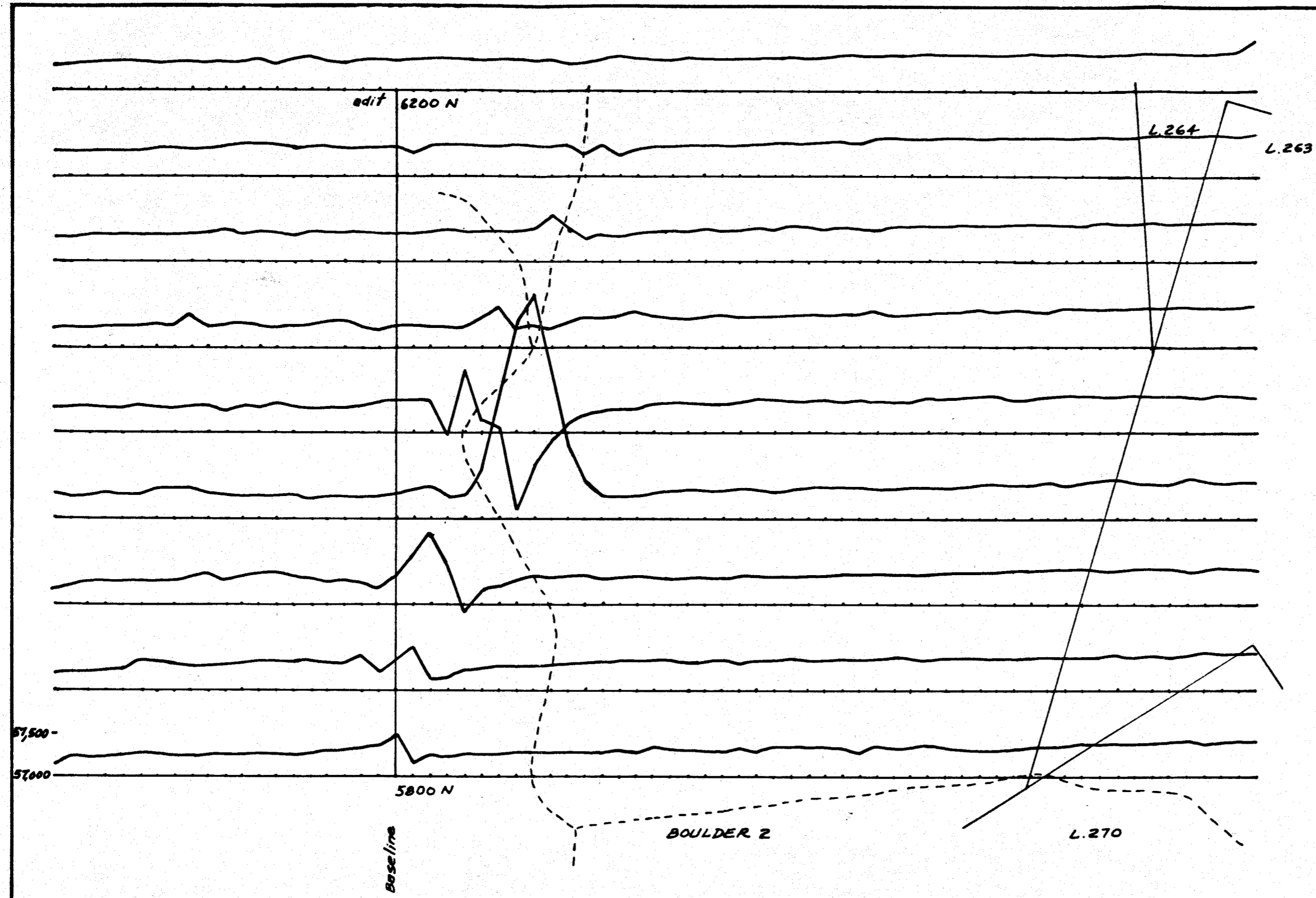
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PROFILES  
MAGNETOMETER SURVEY  
RABBITT PROPERTY

SIMILKAMEEN M.D. 92H10W

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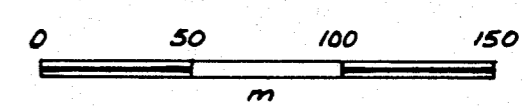
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FIGURE N°: 6



INSTRUMENT: GEOMETRICS UNIMAG II  
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MODEL G-846

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

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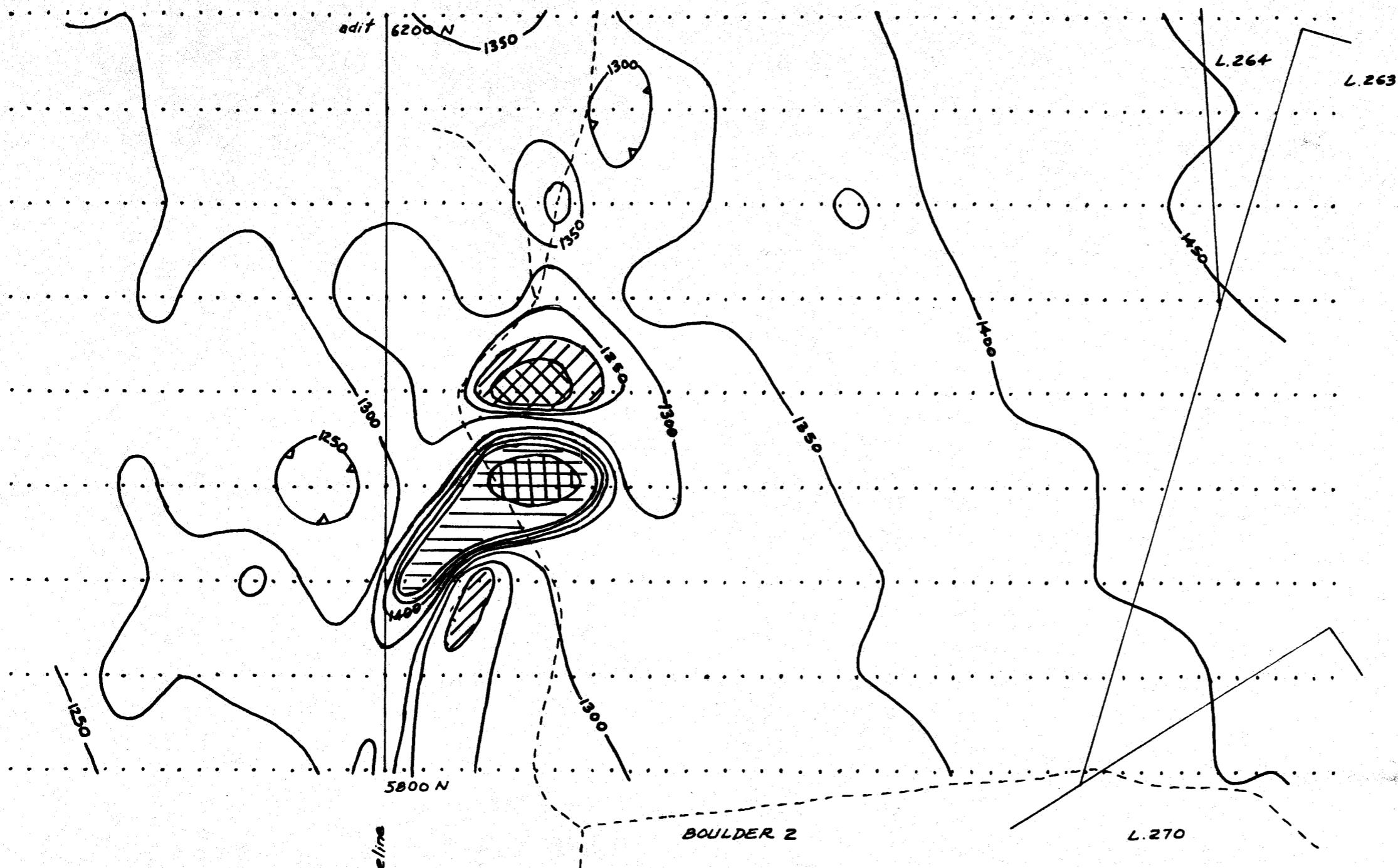


BRICAN RESOURCES LTD

'SMOOTHED' MAG  
MAGNETOMETER SURVEY  
RABBITT PROPERTY

SIMILKAMEEN M.D. 92H10W

SCALE: 1:2500  
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FEBRUARY, 1985  
FIGURE N°:7



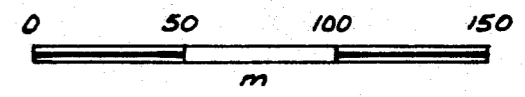
- /// 1000-1200 γ
- XXXX < 1000 γ
- ≡ 1500-2000 γ
- ### > 2000 γ

1000 REPRESENTS 57,000 γ

INSTRUMENT: GEOMETRICS UNIMAG II  
PROTON MAGNETOMETER  
MODEL G-846

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

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TRENCHES

RABBITT PROPERTY

SIMILKAMEEN M.D.

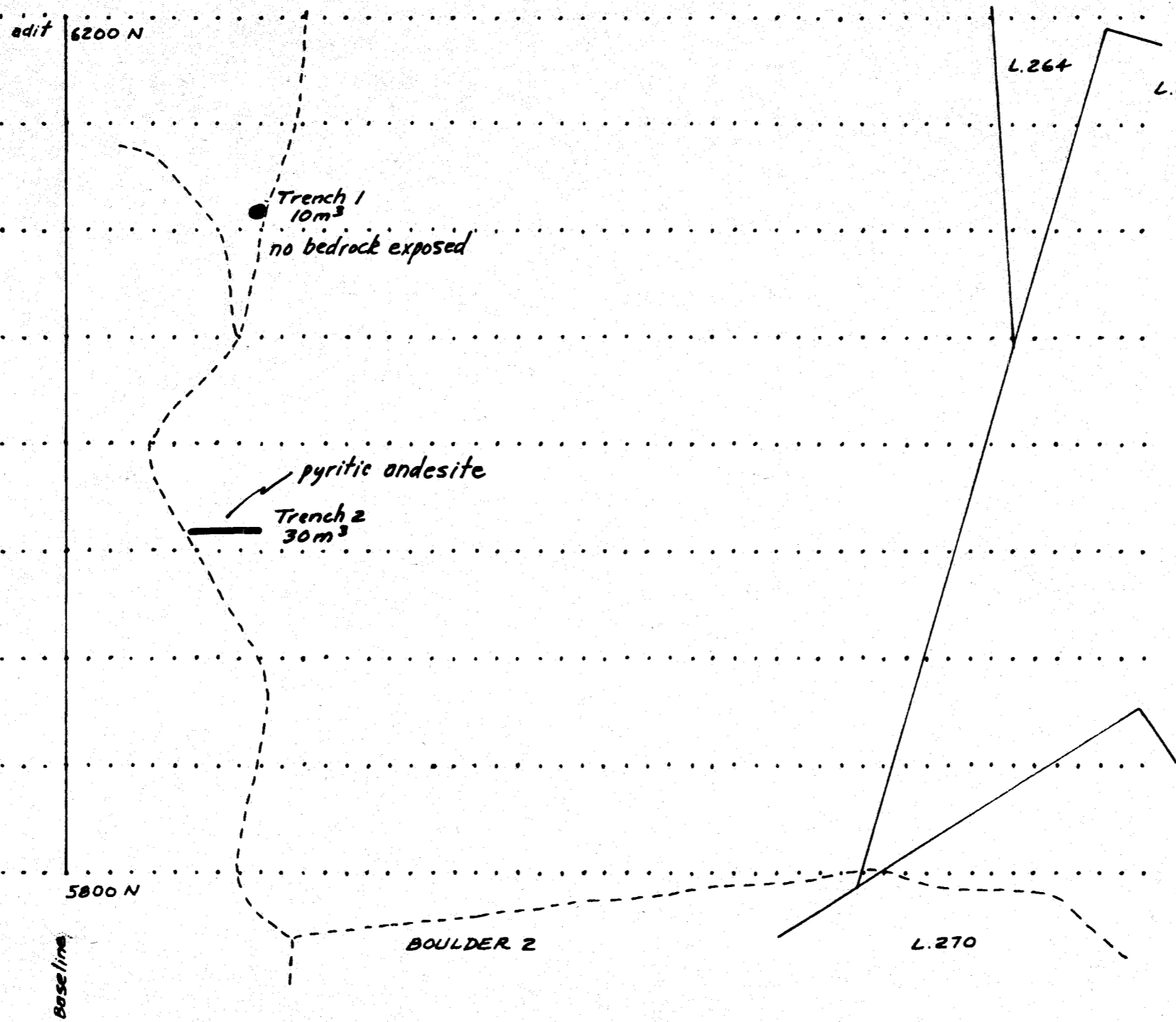
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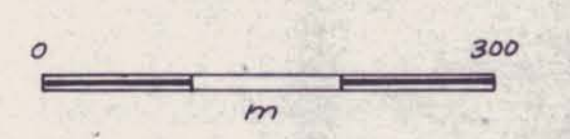
FIGURE N°: 8





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● ROCK SAMPLE  
SEE TABLES 1-4 FOR  
ROCK DESCRIPTIONS &  
ANALYTICAL RESULTS

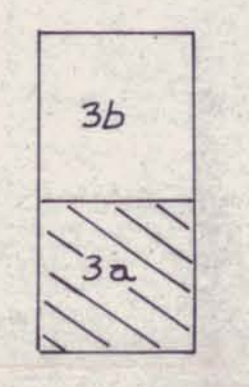


**BRICAN RESOURCES LTD.**

**ROCK SAMPLING**

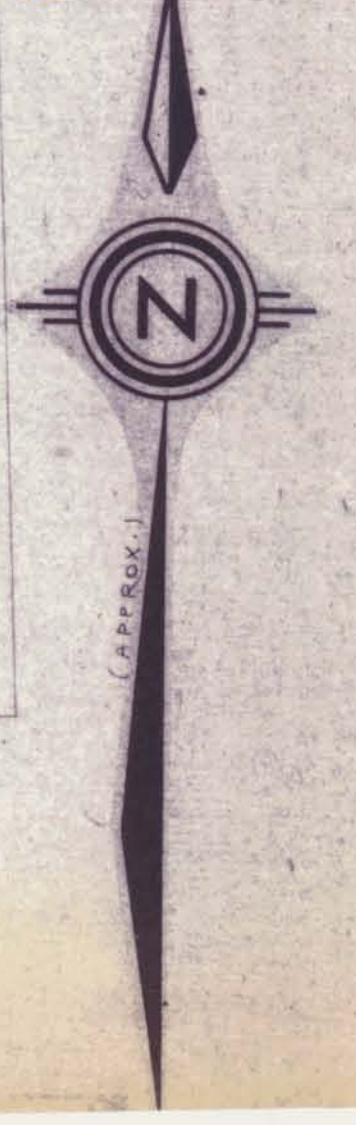
**RABBITT PROPERTY**

SIMILKAMEN M.D. 92 N 10 W  
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**GEOLOGICAL BRANCH  
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**13,396**





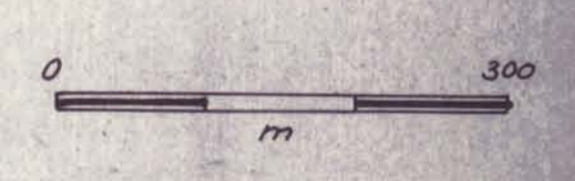


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ASSESSMENT REPORT

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● ROCK SAMPLE

SEE TABLES 1-4 FOR  
ROCK DESCRIPTIONS &  
ANALYTICAL RESULTS



BRIAN RESOURCES LTD.

ROCK SAMPLING

RABBITT PROPERTY  
SIMILKAMEEN M.D. 92 N 10 W

SCALE 1:5000 FEBRUARY, 1985  
DRAWN BY: WBS FIGURE NO. 3b

