Geological and Geophysical Survey of the Bacon Claims

Nanaimo Mining Division - British Columbia
Latitude: 49° 58'N Longtitude: 125° 37'W
NTS: 92F/13E

OWNER: M.J. Sawiuk

Prepared by:

Douglas J. Brownlee, P.Geol. (Alberta)

July 5, 1989

Vancouver, British Columbia

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Summary

A four day exploration program was undertaken on the Bacon Claim, owned by Mr. M. Sawiuk and conducted by Mr. D.J. Brownlee, P.Geol (Alberta) and Mr. M. Sawiuk, Geologist from May 4 to 7, 1989. The program consisted of prospecting, geological mapping, lithogeochemical sampling and magnetometer survey over 2.6 line kilometres and line cutting of 250 metres of baseline and 400 metres of access trail to the Willy Showing.

The Property is underlain by Triassic and/or Jurassic limestone and andesitic volcanic rocks which have been intruded by granodiorite, quartz diorite of the Island Intrusions. Skarns have formed at the contact between the intrusive; the sediments and the volcanics.

The program was successful in extending known magnetite skarns and in locating two previously unknown skarns.

Introduction

A four day exploration project consisting of prospecting, geological mapping, lithogeochemical sampling, magnetometer survey, grid layout and associated line cutting was conducted on the Bacon Claim, owned by Mr. M. Sawiuk. This survey was conducted by D.J. Brownlee, P.Geol (Alberta) and M. Sawiuk, Geologist. This exploration program was conducted from May 4 to 7, 1989.

The purpose of this program was to determine the extent of the magnetite skarn sampled during 1986 and 1987 and to locate other magnetite skarns.

Location and Access

The Bacon Claim is located 40 kilometres west of Campbell River, B.C., at approximately 125° 58'N Latitude and is covered by NTS Sheet 92F/13E (Fig.'s 1 & 2). Access to the claims is by truck along Highway 28 from Campbell River to Upper Campbell Lake and then by year-round logging roads.

Claim Data

The property consists of one 4-post mineral claim called the "**Bacon**" and consists of 12 units. It is recorded at the Nanaimo Mining Division Office under record number 2366. Mr. M. Sawiuk of Vancouver, B.C. is the owner of record. If this assessment report is accepted, (Fig. 2) the expiry date is May 16, 1991.

History

A magnetite bearing skarn was first discovered in the claim area in the early 1950's. Argonaut Mines Ltd. conducted a magnetometer survey over the property and diamond drilled the property during the mid to late 1950's. Minor work was done on the property during the early 1960's, but apparently was not recorded.

No further recorded work was done on the property until it was staked by Mr. R. Tessoline in 1986. Some prospecting and lithogeochemical sampling was conducted in 1987 and 1988 which discovered the gold mineralization associated with cobalt within the iron skarn (0.67 oz gold/ton and 1.06% cobalt).

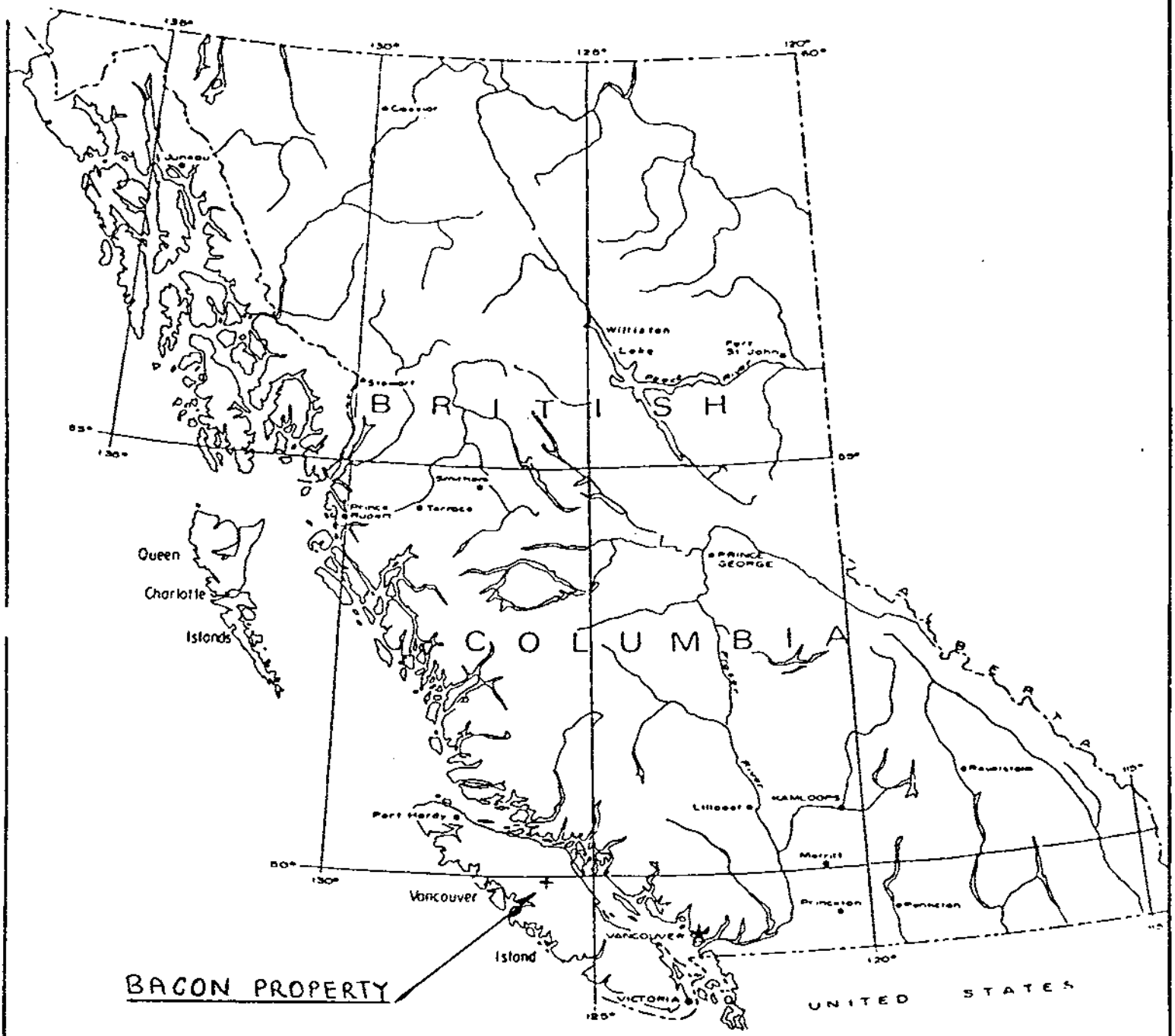
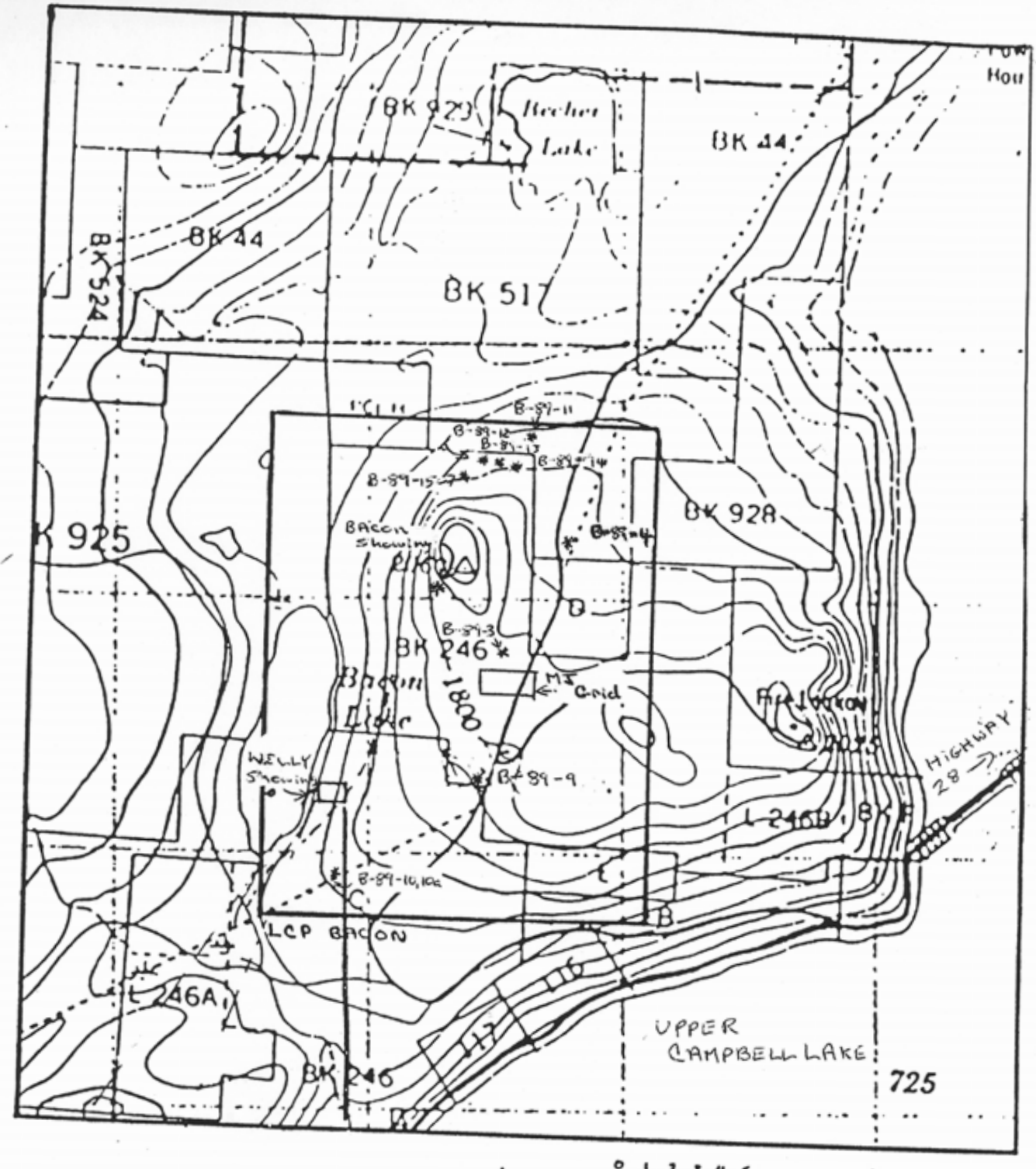


FIG. 1

LOCATION MAP

SCALE

Km 100 50 0 100 200 300 400 Km



ACCESS, CLAIM & SAMPLE LOCATION MAP BACON M.C.		
NANAIMO M.D.		92F 13 E
Subg 5/89	DRAWN BY DJB	FIG 2

Work Program

A four day exploration program was conducted on the property from May 4 to 7th, 1989. At this time the old road to the Willy Showing was opened up by chainsaw (Fig. 2). Also, 1.7 line kilometres of grid was put in by compass and hip chain,with 250 metres of the baseline being cleared by chainsaw. This grid was mapped at a scale of 1:1,000 and a magnetometer survey was conducted over the grid and adjoining roads for a total of 2.6 line kilometres. A total of 17 rock samples were collected from across the property, with 6 samples being collected from the grid. A total of 14 samples were analyzed for 30 elements by I.C.P. and gold by fire assay followed by atomic absorbtion by Acme Analytical Laboratories of Vancouver, B.C.

Geology

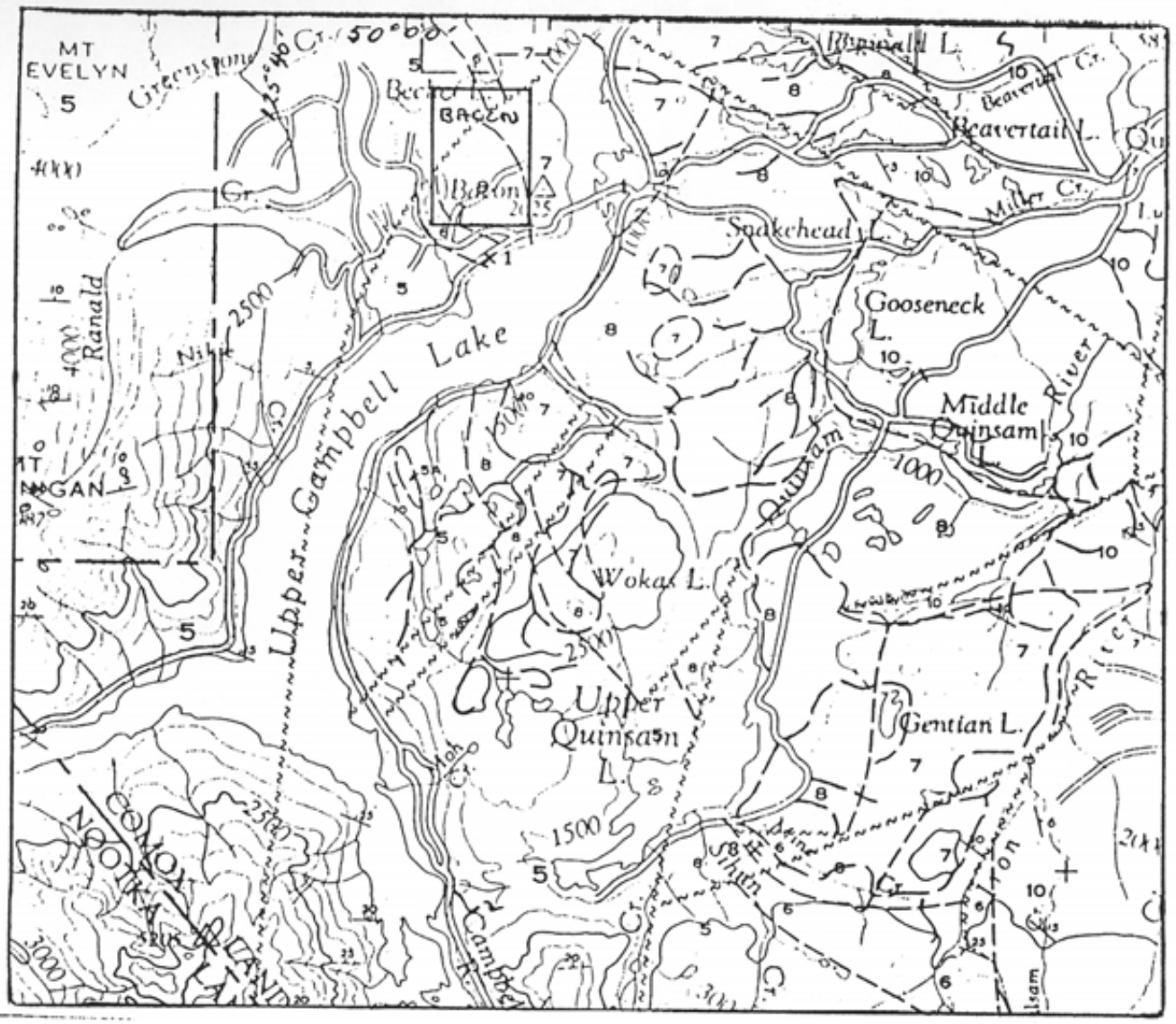
The property is underlain by Upper Triassic limestone and calcareous shales, possibly the Quatsino Formation. Overlying this unit is a Triassic and/or Jurassic tuff, andesitic volcanic breccia and lava, with interbeds of argillite, siltstone and limestone. These are intruded by Jurassic and/or Cretaceous granodiorite and quartz diorite of the Island Intrusions (Fig. 3).

Grid Geology

The north and west portions of the grid are underlain by generally fine grained andesite to andesitic dacoit of the Upper Triassic Bonanza Formation (Fig. 4). The volcanics are interbedded by limestone and calcareous sediments. In the southeast corner of the property, the volcanics are intruded by coarse grained granodiorite to diorite of the Jurassic and/or Cretaceous of the Island Intrusions.

The volcanics have been silicified and in part skarnified along the contact with the disseminated and vein magnetite occurring in several areas. In two locations the limestone has been totally skarnified and contains semi-massive to patchy magnetite with associated pyrite and lessor chalcopyrite and malachite.

The granodiorite and diorite and, to a lesser extent the volcanics, are partly bleached and cut by veins and patches of chlorite and epidote with lessor calcite veins along the contact.



MESOZOIC

CRETACEOUS
UPPER CRETACEOUS
NANAIMO GROUP (9 - 11)

10 COMOX FORMATION: sandstone, pebbly sandstone; minor conglomerate, shale, coal

JURASSIC AND (?) CRETACEOUS
COAST INTRUSIONS

8 Granodiorite; minor quartz diorite

TRIASSIC AND (?) JURASSIC

7 VANCOUVER GROUP (5 - 7)
Tuff, andesitic volcanic breccia and lava; argillite, siltstone; includes some rocks of unit 6

TRIASSIC
UPPER TRIASSIC

6 Limestone, calcareous shale; skarn near intrusive contacts

5 Massive, partly amygdaloidal, basalt, pillow basalt, pillow breccia; minor tuff, volcanic breccia
5A: limestone, calcareous siltstone, shale, interbedded in 5

Geological boundary, approximate

Bedding (horizontal, inclined, overturned)

Bedding (observed from distance or from air photos)

Schistosity

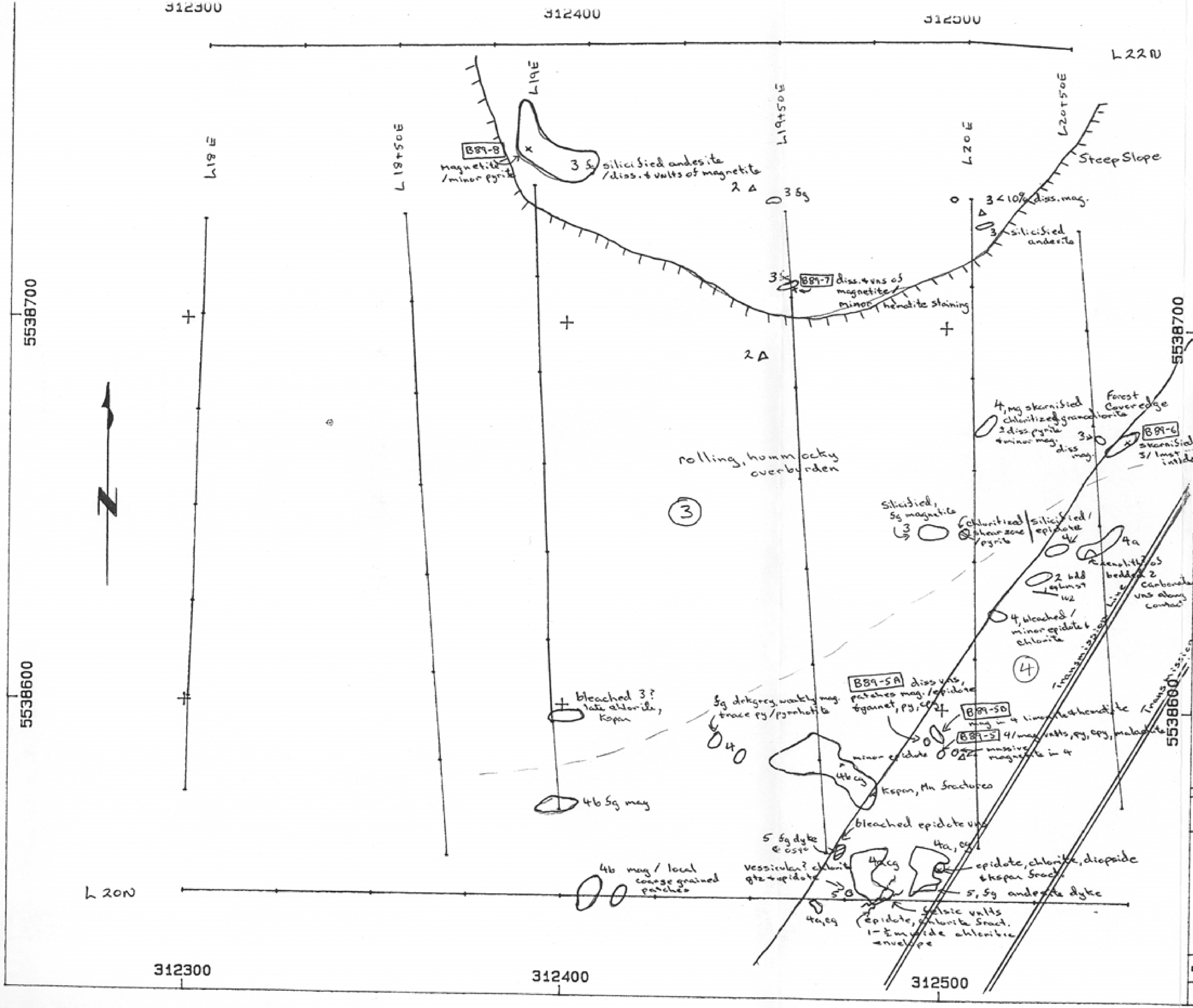
Fault, assumed

GEOLOGY MAP
BACON M.C.

NANAIMO M.D. 92F 13

July 5/89 DRWN BY D.B. FIG 3

After J.E. Muller 1964 Map 2-1965



LEGEND

JURASSIC (?)
5 Andesitic dyke

JURASSIC & CRETACEOUS (?)
4a Granodiorite
b Diorite
c gabbro

TRIASSIC & JURASSIC (?)
Vancouver Group
upper triassic
Bonanza Formation
3 Andesitic tuff, volc breccia, lava

Quatsino Formation
2 Limestone, calc. shale

Karmutsen Formation
1 Massive, partly amygdaloidal and pillow basalt

SYMBOLS

fg — fine grained
B89-7 — Sample number & Location
cg — coarse grained
mg, mag — magnetite
py — pyrite
cpy — chalcopyrite
Mn — manganese

D.J.B SERVICES Ltd.

GEOLOGY MAP, MJ GRID
BACON CLAIM

Vancouver Island B.C. NTS: 92F/13E

Scale 1: 1000.0

Date: 08/07/89 | Drwn. by: DJB | Fig: 4

Muir & Associates Computer Consultants Inc.

Lithogeochemistry

A total of 17 lithogeochemical samples were collected from the property, 6 of which were collected from the grid. A total of 14 samples were sent to Acme Analytical Laboratories of Vancouver for analysis for 30 elements by inducedcoupled plasma techninque followed by analysis for gold by fire assay followed by atomic absorbtion.

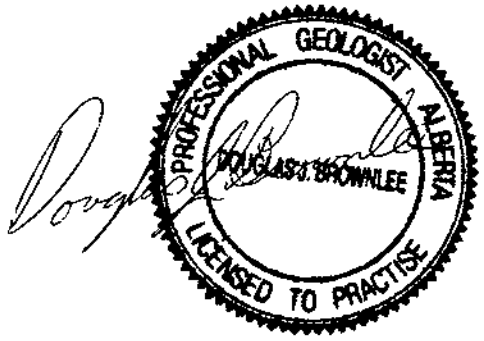
These lithogeochemical samples and their descriptions are listed below (Fig.'s 2 & 4):

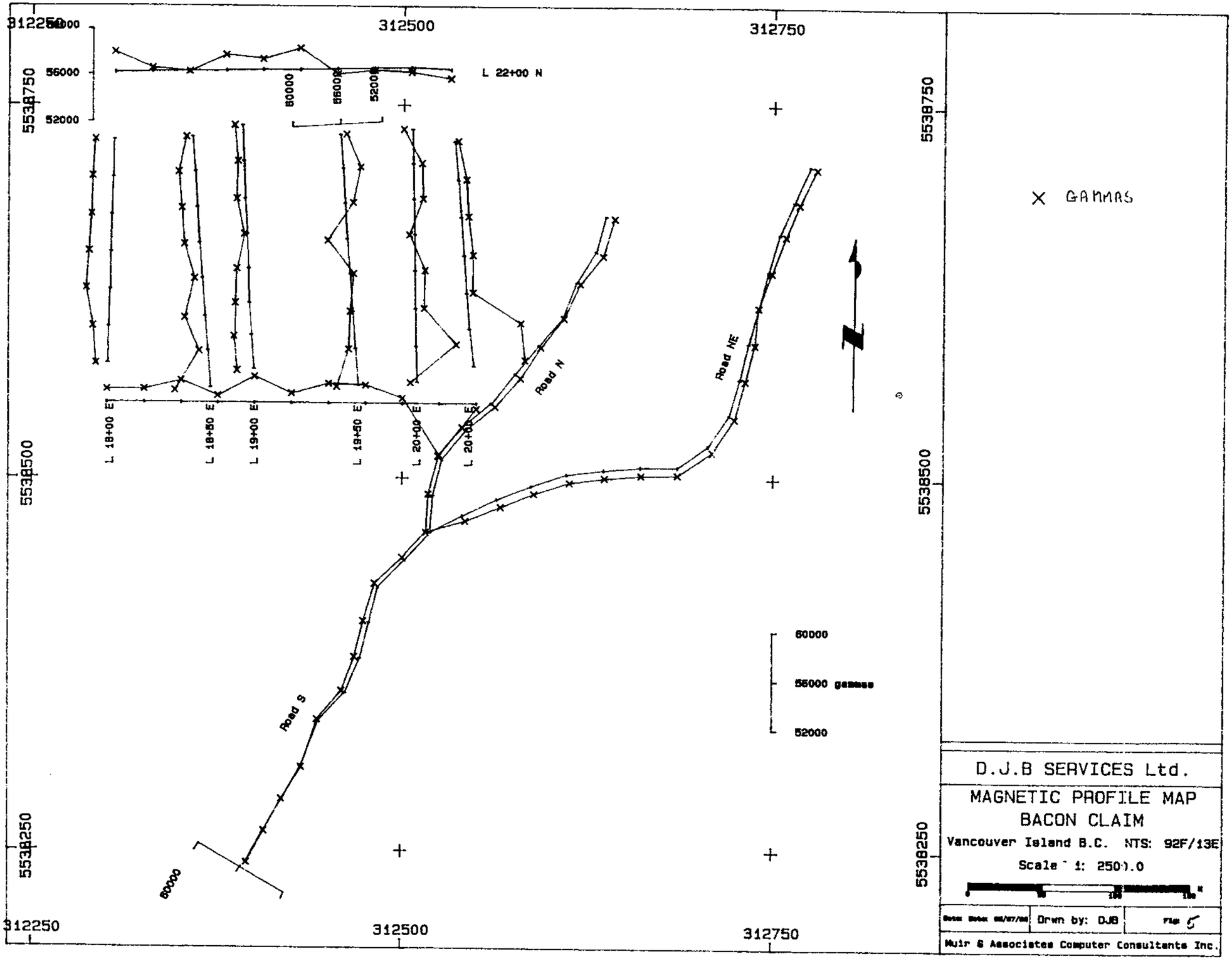
Sample #	Description	Cu ppm	Zn ppm	Au ppb
B-89-3	intensely silicified intrusive or volcanic, disseminated pyrite			
B-89-4	silicified calcareous sediment wthrs orange disseminated pyrite	233	78	6
B-89-5	granodiorite/malachite stain	1149	209	6
B-89-5A	granodiorite/hematite stain	234	102	8
B-89-5B	granodiorite/magnetite, hematite malachite, actinolite, pyrite, pyrrhotite & chalcopyrite	2550	52521	23
B-89-6	volcanic with coarse porphyroblasts of epidote and chlorite, numerous epidote units			
B-89-7	magnetite in fine grained intrusive or volcanic/no visible sulphides	124	7029	9
B-89-8	volcanic/magnetite and minor pyrite	673	656	5
B-89-9	coarse grained diorite/disseminated pyrrhotite			
B-89-10	massive magnetite and pyrite	231	100	11
B-89-10A	massive magnetite and pyrite	35	66	12
B-89-11	fine grained volcanic breccia/pyrite	9	32	3
B-89-11A	medium grained equigranular granodiorite	96	54	1
B-89-12	limonitic volcanic, extensive manganese coating/pyrite	113	32	22

B-89-13	calcareous arenite, calc-silicate, pyrite, chalcopyrite, replacement localized along specific bed/fracture	131	1292	5
B-89-14	silicified andesite/manganese staining/ coarse crystals of chalcopyrite and sphalerite	6880	11261	1
B-29-15	massive magnetite/disseminated pyrite	578	114	11

Magnetometer Survey

A total of 2.6 line kilometres of agenetic readings were collected using a Scintrex MP-1 Proton Magnetometer. The magnetic data was corrected for diurnal variation by reading the baseline twice; correcting for diurnal variation and averaging the results. All other lines were looped off the baseline and were corrected back to the baseline level and for diurnal variation. The resulting data is presented in profile and contoured formats on Fig.'s 5 & 6.

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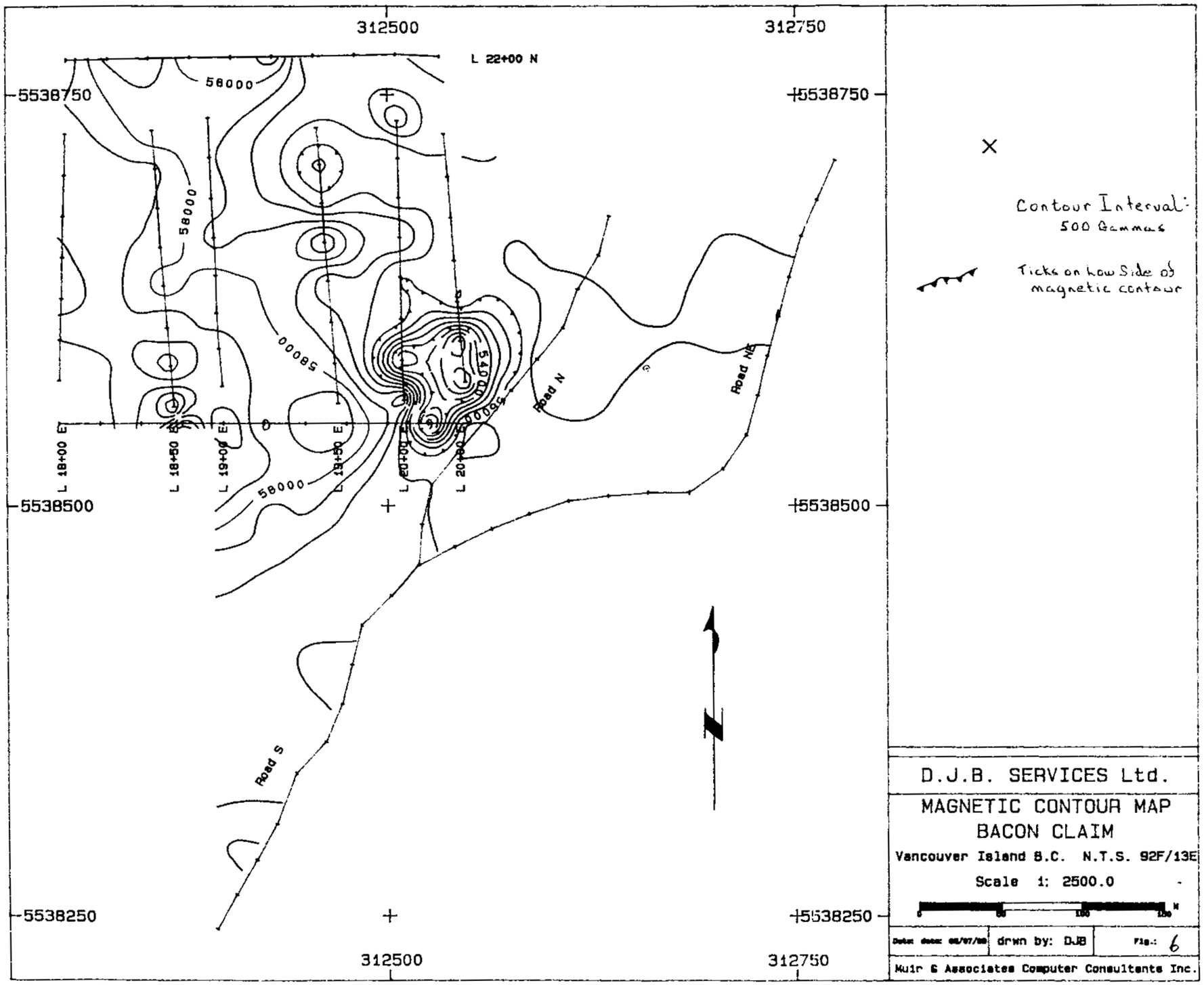
312500
312750
5538750
5538500
5538250
L 22+00 N
60000
56000
52000
L 18+00 E
L 18+50 E
L 19+00 E
L 19+50 E
L 20+00 E
L 20+50 E
Road NE
Road N
Road S
60000
56000 gamma
52000
X GAMMAS
D.J.B SERVICES Ltd.
MAGNETIC PROFILE MAP
BACON CLAIM
Vancouver Island B.C. NTS: 92F/13E
Scale 1: 2500
Drwn by: DJB
Muir & Associates Computer Consultants Inc.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312750
L 22+00 N
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54000
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L 18+50 E
L 19+00 E
L 19+50 E
L 20+00 E
L 20+50 E
Road N
Road NE
Road S
Contour Interval:
500 Gammas
Ticks on low Side of
magnetic contour
D.J.B. SERVICES Ltd.
MAGNETIC CONTOUR MAP
BACON CLAIM
Vancouver Island B.C. N.T.S. 92F/13E
Scale 1: 2500.0
drwn by: DJB
Fig.: 6
Muir & Associates Computer Consultants Inc.

REFERENCES

Brownlee, D.J.	Preliminary Reconnaissance and Lithogeochemical Survey of the Bacon Claim; Assessment Report, July 20, 1987
Brownlee, D.J.	Follow-up Lithogeochemical Survey of the Bacon Claim; Assessment Report, April 25, 1988
Muller, J.E.	G.S.C. Map 2-1965, Comox Lake Area
Open Files	Selected company reports, B.C. Ministry of Energy, Mines and Petroleum Resources, Geological Division, Open Files 92F

AUTHOR'S STATEMENT OF QUALIFICATIONS

I, **Douglas J. Brownlee**, do hereby certify that:

1. I reside at #101, 2615 Lonsdale Avenue, North Vancouver, British Columbia;

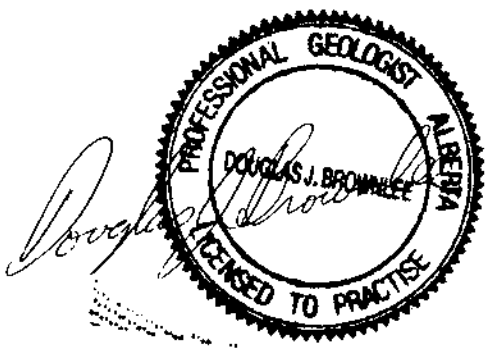
2. I hold a B.Sc. (Spec. Geology) 1980 from the University of Alberta, Edmonton, Alberta;

3. I am a Professional Geologist licensed by the Association of Professional Engineers, Geologists and Geophysicists of Alberta (1988);

4. I have practised my profession as a Geologist since 1980;

5. I conducted the work outlined in this report from May 4 to 7, 1989.

Douglas J. Brownlee
P.Geol. (Alberta)



APPENDIX I

Lithogeochemical Results

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 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 SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: ROCK AU** ANALYSIS BY FA+AA FROM 10 GM SAMPLE.

DATE RECEIVED: MAY 9 1989 DATE REPORT MAILED: May 12/89 SIGNED BY ......D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

RICHARD GOSSE File # 89-1032

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au** PPB
B-89-1	17	133	12	78	.4	11	11	359	4.67	11	5	ND	1	169	1	2	3	100	1.77	.099	4	11	.61	51	.11	2	1.65	.03	.16	6	5
B-89-5	1	1349	6	209	.1	19	22	2500	21.59	12	5	ND	1	13	1	2	2	29	1.94	.024	2	5	.35	5	.02	2	.58	.01	.01	1	2
B-89-5A	1	234	9	102	.3	36	33	3459	36.66	37	5	ND	1	4	1	2	2	24	3.35	.029	2	4	.25	27	.01	2	.43	.01	.02	1	6
B-89-5B	1	2550	124	52521✓	2.9	3	34	3215	4.27	26	5	ND	1	3	333	2	2	5	1.44	.029	2	4	.57	3	.02	2	.26	.01	.01	3	11
B-89-7	1	124	10	7029	.1	15	58	2659	38.26	45	5	ND	3	79	31	2	2	39	4.45	.051	2	6	.28	8	.01	2	.45	.01	.01	1	3
B-89-8	1	673	6	656	.7	22	15	3333	26.36	17	5	ND	1	26	1	2	2	39	3.51	.078	2	4	.56	5	.34	2	1.35	.01	.01	1	8
B-89-10	1	231	7	130	.6	7	8	126	56.95	53	5	ND	4	8	1	2	2	7	.12	.026	2	1	.01	19	.01	41	.15	.03	.09	1	12
B-89-10A	1	35	3	66	.1	3	5	425	54.22	59	5	ND	4	8	1	2	2	9	.43	.007	2	1	.02	12	.01	45	.28	.01	.14	11	12
B-89-11	1	5	8	22	.1	3	12	359	4.11	7	5	ND	[illegible]	329	1	2	2	61	.76	.033	2	8	1.02	41	.07	2	2.07	.02	.16	1	3
B-89-11A	1	96	8	54	.1	12	12	458	4.53	6	11	ND	1	774	1	2	3	140	1.31	.054	2	25	1.28	115	.07	4	3.97	.04	.19	1	3
B-89-12	1	113	2	32	.6	12	10	1555	2.55	54	5	ND	1	6	1	2	2	67	5.12	.081	2	12	.10	8	.01	2	.35	.01	.02	1	12
B-89-13	1	131	4	1292	.1	63	3	1982	.30	72	6	ND	1	37	11	2	3	124	20.55	.065	15	28	.07	4	.25	31	.75	.02	.05	1	5
B-89-14	20	6980	268	11263✓	4.6	77	21	7654	3.62	32	5	ND	1	26	35	2	12	160	7.35	.066	6	35	.65	5	.01	12	.67	.01	.01	4	1
B-89-15	1	578	10	114	1.1	11	54	2021	43.79	32	5	ND	4	3	1	2	2	19	1.32	.092	2	2	.23	5	.02	11	.76	.02	.08	1	11
STD C/AU-R	18	63	41	133	6.7	72	31	1030	4.16	40	22	7	38	53	19	15	21	60	.52	.091	40	54	.90	180	.07	35	1.93	.06	.14	13	515

✓ - ASSAY REQUIRED FOR CORRECT RESULT -

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

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ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
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RICHARD GOSSE File # 89-1033

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au** PPB
B-89-1	17	133	12	76	.4	11	20	155	4.60	13	7	ND	2	185	1	2	3	100	1.70	.069	4	10	.53	50	.01	2	3.85	.01	.15	5	2
B-89-5	1	1149	6	205	.1	29	22	1503	31.69	12	5	ND	2	13	1	2	2	23	1.54	.024	2	5	.35	7	.03	2	.16	.01	.01	1	6
B-89-5A	1	234	9	102	.8	36	23	1455	36.66	37	5	ND	2	4	1	2	2	28	3.35	.055	2	4	.62	10	.01	2	.45	.01	.01	1	8
B-89-5B	1	2550	124	52521	2.8	3	34	8215	4.27	25	5	ND	2	3	311	2	2	2	2.44	.029	2	4	.57	5	.01	2	.13	.01	.01	1	12
B-89-7	1	124	10	7026	.1	15	53	3655	28.19	45	5	ND	1	79	31	2	2	19	4.42	.052	2	6	.24	6	.01	2	.45	.01	.01	1	5
B-89-8	1	673	6	656	.7	22	25	2221	25.36	27	5	ND	1	15	3	2	2	28	4.51	.078	2	4	.56	5	.24	2	1.15	.01	.01	1	5
B-89-10	1	221	7	130	.6	3	6	326	56.35	52	5	ND	4	5		2	2	2	.01	.005	2	1	.01	25	.01	41	.13	.02	.04	1	11
B-89-10A	1	35	3	66	.1	3	5	415	54.20	55	5	ND	4	5	1	2	2	6	.43	.005	2	1	.02	23	.01	45	.13	.02	.04	17	12
B-89-11	1	5	8	22	.1	2	12	155	4.22	7	5	ND	1	323	1	2	2	61	.79	.030	2	4	1.02	41	.27	2	2.07	.01	.06	1	3
B-89-11A	1	96	3	54	.1	12	12	458	4.59	6	10	ND	1	774	1	2	2	140	2.50	.054	1	28	2.02	103	.17	4	3.87	.04	.13	1	1
B-89-12	1	113	2	32	.6	12	10	1555	8.53	54	5	ND	1	6	1	2	2	62	4.13	.082	3	18	.12	8	.01	2	.31	.01	.01	1	11
B-89-13	1	133	4	2292	.1	63	3	1582	.90	72	6	ND	1	17	11	2	3	114	20.55	.145	16	18	.07	4	.03	52	.79	.01	.01	1	5
B-89-14	20	6980	264	11263	4.6	77	21	7654	3.57	11	5	ND	1	76	55	2	13	180	7.36	.265	6	33	.66	5	.03	17	.67	.01	.01	4	1
B-89-15	1	578	10	114	1.1	11	34	2021	43.79	11	5	ND	4	3	1	2	2	13	2.21	.152	2	1	.13	3	.03	11	.76	.01	.04	1	11
STD C/AU-R	18	63	41	133	6.7	71	31	1037	4.16	41	22	7	38	51	18	15	22	61	.50	.091	37	54	.90	182	.07	35	1.93	.06	.14	13	515

- ASSAY REQUIRED FOR CORRECT RESULT -

APPENDIX II

Statement of Costs

STATEMENT OF COSTS

Personnel Mobilization and Field Work

D.J. Brownlee, P.Geol. May 4 - 7, 1989	4 days @ $200.00/day	800.00
M.J. Sawiuk, Geologist May 4 - 7, 1989	4 days @ $200.00/day	800.00

Field Expenses

Ferry	1 vehicle - 2 people 2 trips @ $22.50/trip	51.00
Accommodation	3 nights @ $50.00/night	150.00
Meals	8 mandays @ $40.00/day	320.00
Vehicle Rental	4 days @ $75.00/day	300.00
Fuel		100.00
Analytical Costs	14 samples @ $15.25/sample Prep, ICP & Au by FA & AA Plus $5.00 surcharge	218.50
Magnetometer Rental	2 days @ $40.00/day Plus $100.00 prep fee	80.00 100.00
Chainsaw Rental	4 days @ $40.00/day	160.00

Report

Preparation, drafting, computer time, compilation		600.00
	Total	$3,679.50