

86-409-15286

MINISTRY OF ENERGY, MINES  
AND PETROLEUM RESOURCES

Rec'd AUG 5 1986

SUBJECT \_\_\_\_\_

FILE \_\_\_\_\_

VANCOUVER, B.C.

5/87

*Prospecting*  
GEOLOGY & GEOCHEMISTRY REPORT

ON THE

SPARK CLAIM

*Hanaimo M.D.*

NTS 92F/1W

49° <sup>03'</sup> ~~15'~~ NORTH LATITUDE

124° <sup>30'</sup> ~~28'~~ WEST LONGITUDE

OWNER

DANIEL W. BRETT

FILMED

OPERATOR

BASELINE RESOURCES LTD.

REPORT BY

DAVID H. BRETT GEOLOGICAL BRANCH  
ASSESSMENT REPORT  
JULY 31, 1986

15286

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## INTRODUCTION

The SPARK claim was staked by Mr. Dan Brett of Vancouver in the spring of 1985 to cover geology favorable to the occurrence of massive sulfide mineralization. Work done on the claim in 1986 by Mr. Brett and geologist Tim Donnelly confirm that the claim is underlain by rocks of the Sicker Group, a geologic unit currently the focus of a great deal of exploration in the region. Of fifteen silt samples taken, two show anomalous gold values. These anomalies should be followed up with additional sampling and prospecting.

## CLAIM INFORMATION

The SPARK claim, consisting of 20 units, was located in the Nanaimo Mining Division on Vancouver Island by Mr. Daniel W. Brett of Vancouver on the 6th and 7th of May, 1985. The claim was recorded in Nanaimo on the 8th of May and was subsequently issued record number 2125(5).

## LOCATION AND ACCESS

The SPARK claim is located approximately 49 degrees 15' Latitude and 124 degrees 30' Longitude, 1.5 km west of Fourth Nanaimo Lake on N.T.S. map number 92F/1W in the Nanaimo Mining Division of Vancouver Island. Access to the property from Vancouver is by ferry to Nanaimo,

Trans Canada Highway southbound to westbound exit to Nanaimo Lakes, then via paved road to unpaved primary logging roads to Fourth Nanaimo Lake. Access is thence by 4 x 4 traversable logging roads to the property. Numerous traversable and non traversable roads cross the property.

#### PROPERTY GEOLOGY

The SPARK claim is underlain by rocks of the Sicker Group. These consist of water-lain volcanics and sediments deposited in a basinal environment. On the claim these volcanics consist of porphyritic hornblende-andesites, black non-porphyritic andesites, and minor rhyolite beds. The porphyritic andesites contain 20 - 30% hornblende porphyroblasts approximately 2 - 3 mm in length. The sediments consist of conglomerates, beds of greywacke and banded chert. The sediments and porphyritic andesites are located mainly in the N.E. portion of the property and the dark non-porphyritic andesites in the south and south west. An intrusive body consisting mainly of hornblende granodiorite is located about 100 - 200 meters N.E. of the claim.

There are two sets of quartz veins present in the rocks on this claim. The first set are very tight closed veins which have been metamorphosed with the surrounding rocks. The second set, related to the intrusive body to the N.E. are open and vuggy and often containing pyrite and chalcopyrite, are not metamorphosed.

The geological environment on this claim has excellent potential for two kinds of metal deposits. The basinal environment of deposition of the volcanics is a well documented locale for massive sulphide deposits. The open, vuggy quartz veins related to the intrusive are ideal sites for precious metal mineralization.

#### WORK SUMMARY

From the 21st to the 24th of April, 1986, geologist Tim Donnelly, B.Sc., and prospector Dan Brett visited the property and carried out a stream silt geochemistry survey and a reconnaissance geologic investigation. The results of the latter investigation are reflected in the preceding section on Geology. The location of the silt samples are plotted on figure A in Appendix I.

#### GEOCHEM RESULTS

The silt samples collected were taken to Acme Analytical Laboratories in Vancouver and were analyzed for Au, Ag, Zn, Pb and Cu by geochemical ICP analysis. This assay method is described on the assay certificate (Appendix II). Most of the samples analyzed reflect only non-anomalous, background levels of mineral. However, two of the samples, STR-S-2-86 and STR-S-3-86, show mild, but significantly anomalous values in gold and silver. These samples are in close proximity to each other (less than 300 meters) and may reflect a discernable pattern. Correlation with geology at this point is

unclear, but, as discussed above, mineralization may be related to the intrusive body northeast of the claim. In any event, these anomalies warrant further investigation.

COST STATEMENT

LABOR

T.R. Donnelly, Geologist, 4 days @ \$150/day	\$600.00
Dan Brett, Prospector 4 days @ \$100/day	\$400.00

MOBILIZATION

1982 Ford F250 4 X 4 Truck 4 days @ \$75/day	\$300.00
Honda all terrain vehicle 4 days @ \$40/day	\$160.00
B.C. Ferry Vancouver to/from Nanaimo	\$50.00
Gas	\$94.08

ACCOMODATION

19' Shasta Trailer, 4 days @ \$50/day	\$200.00
Motel, 1 night	\$27.82
Food, Meals and misc.	\$134.25

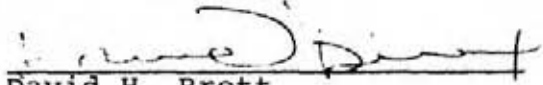
ANALYSIS

15 silt samples @ \$10.25/ sample and \$5.00 surcharge	<u>\$158.75</u>
	\$2,125.00

STATEMENT OF QUALIFICATIONS

I, David H. Brett, hereby declare that:

- i) I have been a self employed prospector in British Columbia for the past eight years.
- ii) I have completed Geology 105 at the University of British Columbia.
- iii) I am the President of Baseline Resources Ltd., a Vancouver based exploration firm.

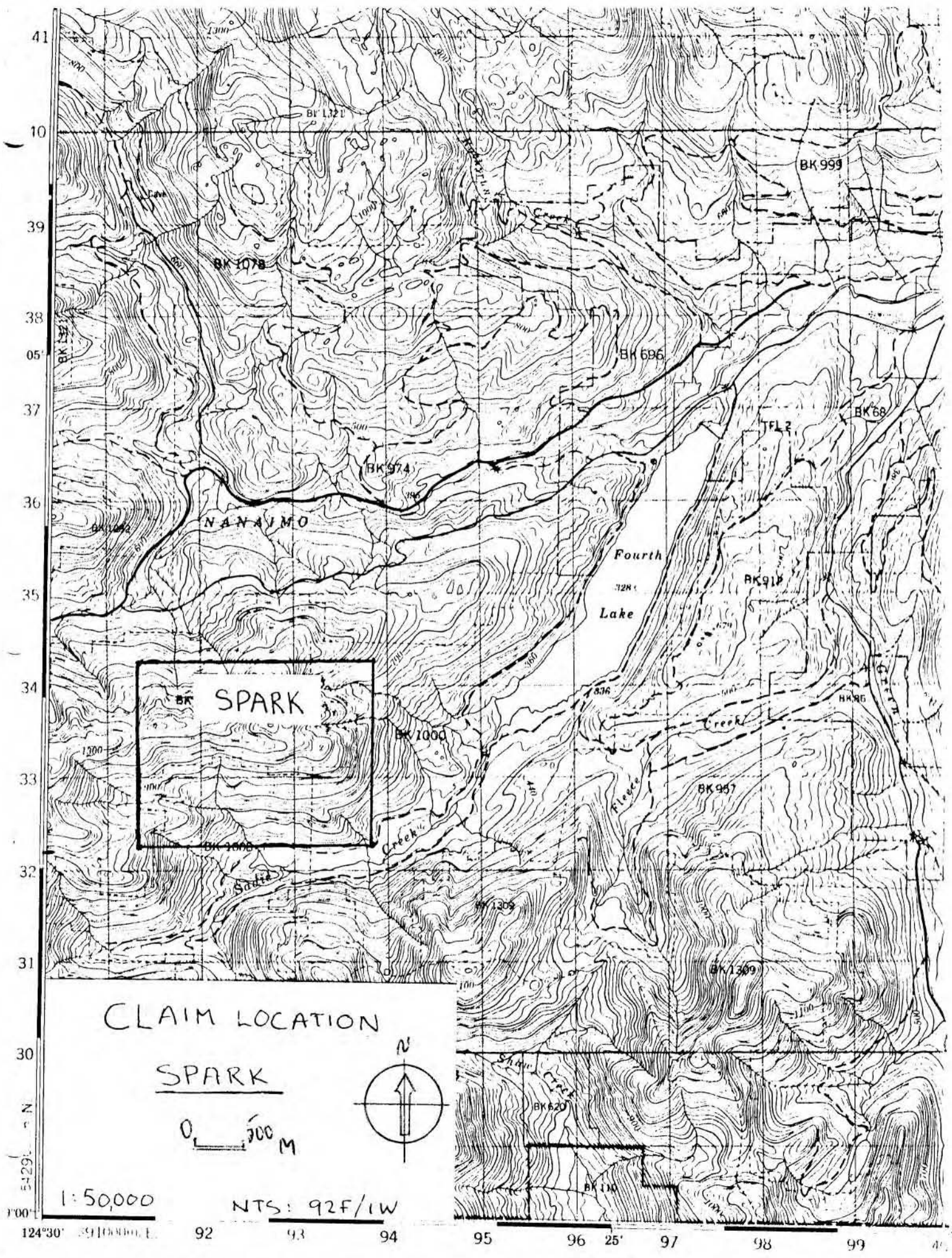
  
David H. Brett



APPENDIX I

LOCATION MAP

SILT SAMPLE LOCATIONS

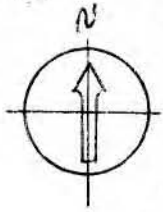


BK SPARK

CLAIM LOCATION

SPARK

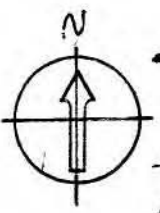
0 700 M



1:50,000

NTS: 92F/1W

124°30' 124°35' 124°40' 124°45' 124°50' 124°55' 125°00' W  
49°00' 49°05' 49°10' 49°15' 49°20' 49°25' 49°30' 49°35' 49°40' 49°41' N



0 222

2153(5)  
3N X 2W

103547  
103548

KATHY  
342(3)  
(HEDGECO)

JANE  
341(3)

SPARK CLAIM

SILT SAMPLE LOCATIONS

FIG. A  
DAVID H. BRETT  
JULY 22, 1986

NIT 4  
2124(5)  
55 X 2W

BK 1313

SPARK  
2125(5)  
4N X 5W

5 ppb Au  
S-5

12 ppb Au  
S-2

2 ppb Au  
S-16

3 ppb Au  
S-15

BK 1000

\*S-3  
22 ppb Au

120

2 ppb Au  
S-11

BC

\*S-10

\*S-9

102754

102876

102975

BK 1108

Sadie

SADIE 2  
2186(6)

BK 1313

45 X 5 E

BK 1309

APPENDIX II

GEOCHEM DATA

CME ANALYTICAL LABORATORIES LTD.  
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: JUNE 30 1986

DATE REPORT MAILED: *July 3/86*

### GEOCHEMICAL ICP ANALYSIS

.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.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.V.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: SILTS -35 MESH <sup>Reversed.</sup> AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toye* DEAN TOYE. CERTIFIED B.C. ASSAYER.

DUKE MINERALS

FILE # 86-1228

PAGE 1

SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Au* PPB
STR-S-2-86	74	14	119	.1	12
STR-S-3-86	68	11	118	.3	22
STR-S-4-86	62	11	66	.2	1
STR-S-13-86	64	4	59	.1	1
STR-S-16-86	52	10	49	.1	2
STR-S-17-86	51	9	47	.2	1
SPARK-86-S-008	71	10	62	.1	1
SPARK-86-S-010	71	9	59	.2	1
SPARK-86-S-012	69	6	60	.1	1
SPARK-ST-S-1-86	62	10	59	.1	1
SS-6-86	73	12	59	.2	1
SS-11-86	69	8	60	.2	2
SED-5	66	11	65	.2	5
UPPER-86-S-015	69	10	65	.1	3
LOWER-86-S-014	61	10	61	.3	1
STD C/AU 0.5	60	35	136	7.1	495