



Province of
British Columbia

Ministry of
Energy, Mines and
Petroleum Resources

FILMED

19464

ASSESSMENT REPORT
TITLE PAGE AND SUMMARY

TYPE OF REPORT/SURVEY(S) GEOLOGICAL	TOTAL COST 4,800.
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AUTHOR(S) D.R. Morgan, P. Eng SIGNATURE(S) *[Signature]*

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED . . . 14 September 1989 YEAR OF WORK 1988, '89

PROPERTY NAME(S) Valparaiso

COMMODITIES PRESENT Gold, Silver, Tungsten

B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN 082FSE038

MINING DIVISION Nelson NTS 82-F/7(E)

LATITUDE 49°25.1' N LONGITUDE 116°43.4' W

NAMES and NUMBERS of all mineral tenures in good standing (when work was done) that form the property [Examples: TAX 1-4, FIRE 2 (12 units); PHOENIX (Lot 1706); Mineral Lease M 123; Mining or Certified Mining Lease ML 12 (claims involved)]:

GOV 1 - 10, MARTILDE L.3870, SCHMULKA L. 3871

OWNER(S)

(1) D.R. MORGAN (2)

MAILING ADDRESS

308-2154 West 5th Avenue,
Vancouver, B.C. V6K 1S2

OPERATOR(S) (that is, Company paying for the work)

(1) Little Bear Resources Ltd., (2)
703-1112 West Pender St,
Vancouver, B.C.

MAILING ADDRESS

SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude):

The GOV claims cover the southern and northern extensions of the Valparaiso-Government vein system. This quartz vein which dips 40° east, extends for at least 1,000 meters, is hosted by granodiorite and is mineralized with gold, silver and tungsten.

REFERENCES TO PREVIOUS WORK Assessment reports # 10, 811

1221

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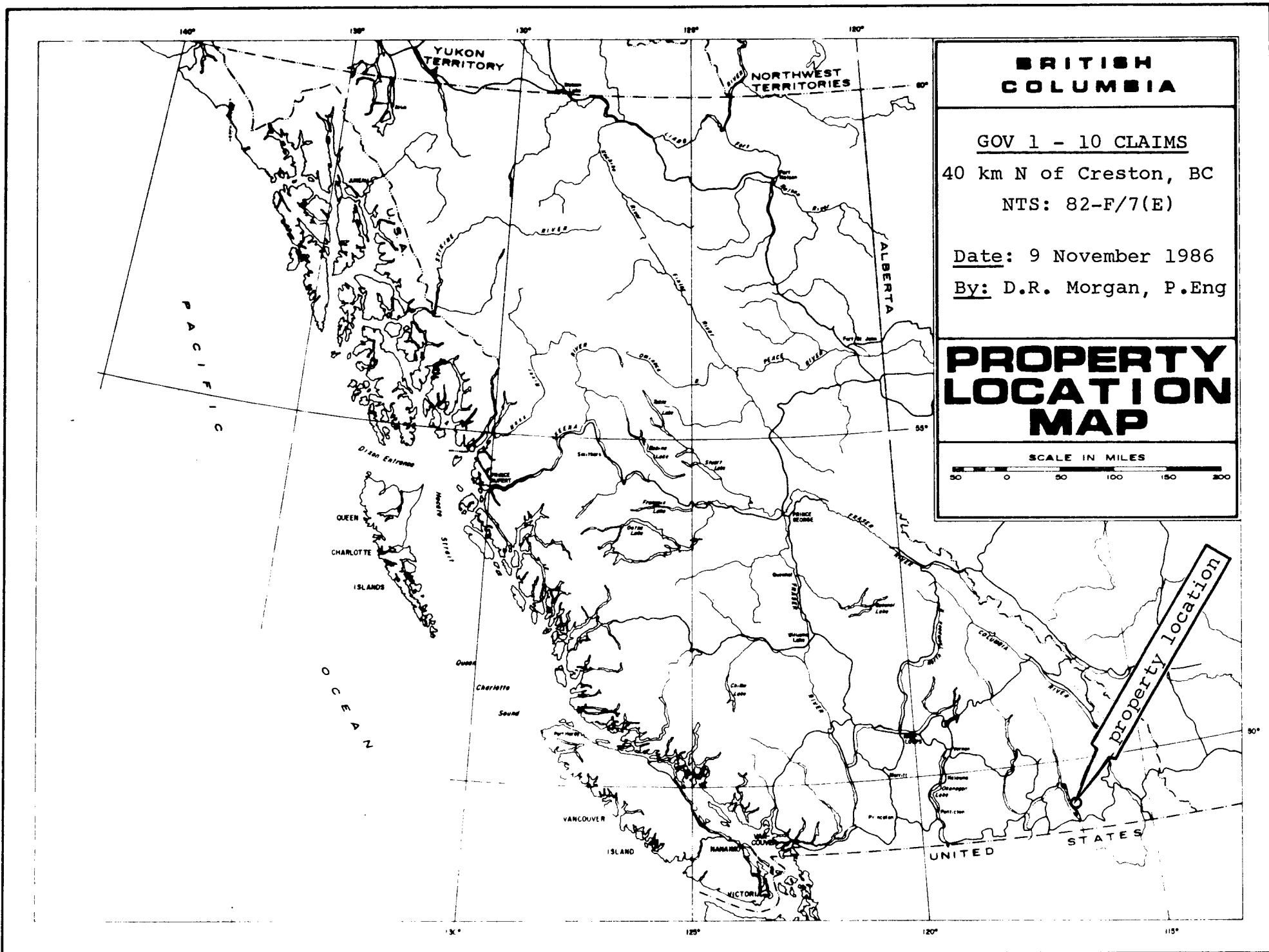
Maps Accompanying this Report

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LOG NO: 0627	RD. 3
ACTION: Date received back from amendment	
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1976
 1974
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SUB-RECORDER	
RECEIVED	
DEC 14 1989	
M.R. #	\$
VANCOUVER, B.C.	



1 - 0 SUMMARY:

1. During 1988 and 1989 the Gov 3 and Gov 5 claims were visited by engineers working for Little Bear Resources Ltd., a company which at that time held an option on the property.
2. During these visits exposures of the Government-Valparaiso vein system and the Sarah vein system lying up-slope and to the east were examined and sampled.
3. The purposes of this work were to confirm the values claimed for the Government-Valparaiso vein and to learn more about the importance of the Sarah vein.
4. Sampling on the Government-Valparaiso vein mainly took place on the portion of the vein above the Valparaiso adit. Since this lies on the Government Crown Grant (L 4908) it is not covered in this report. Sampling at the south end of this vein system in the vicinity of the Government shaft (on Gov 5 claim) is detailed here.
5. Examination and sampling of exposures of the Sarah vein showed that it is approximately 30 cm wide and was not well mineralized where tested.

2 - 0 CONCLUSIONS:

1. Sampling on the Government-Valparaiso vein confirmed widths and values shown by earlier work (see "References")
2. Further work is needed on the Sarah vein.

3 - 0 INTRODUCTION:

3 - 1 Scope & Dates of Report: This report describes geological work carried out on the Gov 3 and 5 claims between 8 November 1988 and 26 May 1989. This work was paid for by Little Bear Resources Ltd., 703-1112 West Pender Street, Vancouver, B.C., V6E 2S1.

4 - 0 3 - 2 Title: The writer, David R. Morgan, 308-2154 West 5th Avenue, Vancouver, B.C., V6K 1S2 is the full and undivided owner of the claims listed below:

<u>Claims</u>	<u>Name</u>	<u>Record #</u>	<u>Lot #</u>	<u>Recorded</u>	<u>Expiry Date</u>
6	Gov 1-6	4233-38	---	26 Sept '85	26 Sept 1990
4	Gov 7-10	4451-54	---	15 Sept '86	15 Sept 1990
1	Martilde	4288	L 3870	21 Nov '85	21 Nov 1990
1	Schmulka	4289	L 3871	21 Nov '85	21 Nov 1990

Acceptance of the work described in this report will put these claims in good standing until 1992.

A Statement of Work was filed at the Vancouver Sub-Recorder's office on 14 September 1989.

4 - 0 GEOGRAPHY:

4 - 1 Location: The property lies on the west facing slopes of the Purcell Mountains on the east side of Kootenay Lake between Akokli and Sanca Creeks, near Boswell and approximately 40 km north of Creston. The claims are in N.T.S. area 82-F/7(E), are in the Nelson Mining Division and have a latitude of $49^{\circ}25.1$ north and a longitude of $116^{\circ}43.4$ west.

4 - 2 Access: Highway 3A is taken for 40 km north of Creston. Approximately 3.5 km north of Sanca a logging road leads northeast up the south side of Akokli Creek. From this point it is 5.4 km by dirt road to the property.

4 - 3 Topography: The claims cover the west facing slopes of a spur between Akokli and Sanca Creeks. Elevations range from 3,700 to 5,400 feet. The mine workings at 3,950' lie 2,205 feet above the level of Kootenay Lake (1,745 feet).

49°30'

10 NORTH

M82F/7E

FORMERLY
1657(5)
161 222

LAVE 7

222 (6)

p. 4

Hotday Cr.

Squaw Cr.

DAVE 5

481 (7)

NELSON Cr. M.D.
FORT STEELE M.D.



MT. DAVIE

AKOKLI M

McGregor Cr.

HOPE
4844 (9)
6NX3W

DISCOVERY
4843 (9)
6NX3E

Charles Cr.

04411 04414

VALPARAISO
PROPERTY
(63 Units)

HOD

4922 (12)
4NX2W

Val Cr.

Wurgstern Cr.

GIN 2
4655 (6)
4215A

GIN 4
4657 (5)
4215B

GIN 3
4656 (5)
4215C

GIN 1
4654 (5)
4215D

GIN 5
4658 (5)
4215E

GIN 6
4659 (5)
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4660 (5)
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4663 (5)
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4215AA

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4681 (5)
4215AB

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4215AC

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4683 (5)
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4215BF

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4215BG

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4215BH

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4215BI

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4215BJ

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4215NO

GIN 378
5031 (5)
4215NP

GIN 379
5032 (5)
4215NQ

GIN 380
5033 (5)
4215NR

GIN 381
5034 (5)
4215NS

GIN 382
5035 (5)
4215NT

GIN 383
5036 (5)
4215NU

GIN 384
5037 (5)
4215NV

GIN 385
5038 (5)
4215NW

GIN 386
5039 (5)
4215NX

GIN 387
5040 (5)
4215NY

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5041 (5)
4215NZ

GIN 389
5042 (5)
4215OA

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5043 (5)
4215OB

GIN 391
5044 (5)
4215OC

GIN 392
5045 (5)
4215OD

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5046 (5)
4215OE

GIN 394
5047 (5)
4215OF

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5048 (5)
4215OG

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5049 (5)
4215OH

GIN 397
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4215OI

GIN 398
5051 (5)
4215OJ

GIN 399
5052 (5)
4215OK

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5053 (5)
4215OL

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5054 (5)
4215OM

GIN 402
5055 (5)
4215ON

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5056 (5)
4215OO

GIN 404
5057 (5)
4215OP

GIN 405
5058 (5)
4215OQ

GIN 406
5059 (5)
4215OR

GIN 407
5060 (5)
4215OS

GIN 408
5061 (5)
4215OT

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5062 (5)
4215OU

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5063 (5)
4215OV

GIN 411
5064 (5)
4215OW

GIN 412
5065 (5)
4215OX

GIN 413
5066 (5)
4215OY

GIN 414
5067 (5)
4215OZ

GIN 415
5068 (5)
4215PA

GIN 416
5069 (5)
4215PB

GIN 417
5070 (5)
4215PC

GIN 418
5071 (5)
4215PD

GIN 419
5072 (5)
4215PE

GIN 420
5073 (5)
4215PF

GIN 421
5074 (5)
4215PG

GIN 422
5075 (5)
4215PH

GIN 423
5076 (5)
4215PI

GIN 424
5077 (5)
4215PJ

GIN 425
5078 (5)
4215PK

GIN 426
5079 (5)
4215PL

GIN 427
5080 (5)
4215PM

GIN 428
5081 (5)
4215PN

GIN 429

5 - 0 HISTORY:

- 1898 - A claim was staked on the Imperial Vein. This is now known as the Sarah (M.I. 82FSE055) and is covered by claim GOV 3.
- 1900 - The Valparaiso Gold Mining Company acquitted 7 claims and drove the Valparaiso x-cut 200 feet east to the vein.
- 1919 - A 130 foot x-cut was driven to the Imperial vein.
- 1933 - Canada Smelters Ltd., shipped 324 tons of 'development heading' ore to the Trail Smelter (Average grade: Au: 0.33 Ag:3.3 ozs/ton) The Government shaft was sunk to 275 feet and 600 feet of lateral work was done in the Government and Valparaiso workings.
- 1954 - Akokli Tungsten Mines Ltd., built a headframe, compressor house and mill. A line was built to bring power to these facilities. Drifting and 1,500 feet of long-hole percussion drilling was carried out underground.
- 1955 - The Company ran drift in the Government workings and put a raise to the surface 300 feet north of the shaft. From 533 tons of mill feed 11,200 pounds of pyrite-tungsten concentrate was produced.
- 1956 - The Government workings were mapped and sampled by G. Hougland.
- 1981 - A drill-access road was built above the Government workings. Four diamond drill holes were drilled from this 900 meter road.
- 1984 - The claims surrounding the Valparaiso and Government Crown Grants came open and were staked by the writer.

6 - 0 REGIONAL GEOLOGY:

The property lies mainly in granodiorites of a west-projecting lobe of the Bayonne batholith, locally intrusive into Purcell sediments. The contact between the granodiorite and the sediments trends northeast and lies approximately 1,600 meters north of the mapped area.

The Valparaiso vein, a northerly striking fissure vein with an easterly dip of 45° has been exposed by 160 meters of drift in the Government workings, by 198 meters of drift in the Valparaiso workings immediately to the north and by pits, trenches and outcrop for about 650 meters to the north of the Valparaiso workings, making a total exposure of approximately 1,000 meters.

The Valparaiso vein is a quartz filled fissure vein which varies in width from one to twenty five feet (ref.2, p.66) and is mineralized with pyrite, arsenopyrite, sphalerite, galena, chalcopyrite, wolframite and gold. Sulphide minerals occur as bands, blebs and disseminations in the vein quartz (ref. 4, p.10) Wolframite occurs mainly in sheared sections of the granite footwall. Assay results indicate that gold and silver values are generally confined to quartz-sulphide material.

The Sarah (formerly Imperial) vein lies parallel to the Valparaiso vein and 700 feet vertically above it and to the east. This vein, has been traced for about 120 meters in pits and cuts. A ten ton shipment from it in 1906 ran: Au: 0.6 ozs/ton Ag: 22 ozs/ton.

7 - 0 GEOLOGY OF THE PROPERTY:

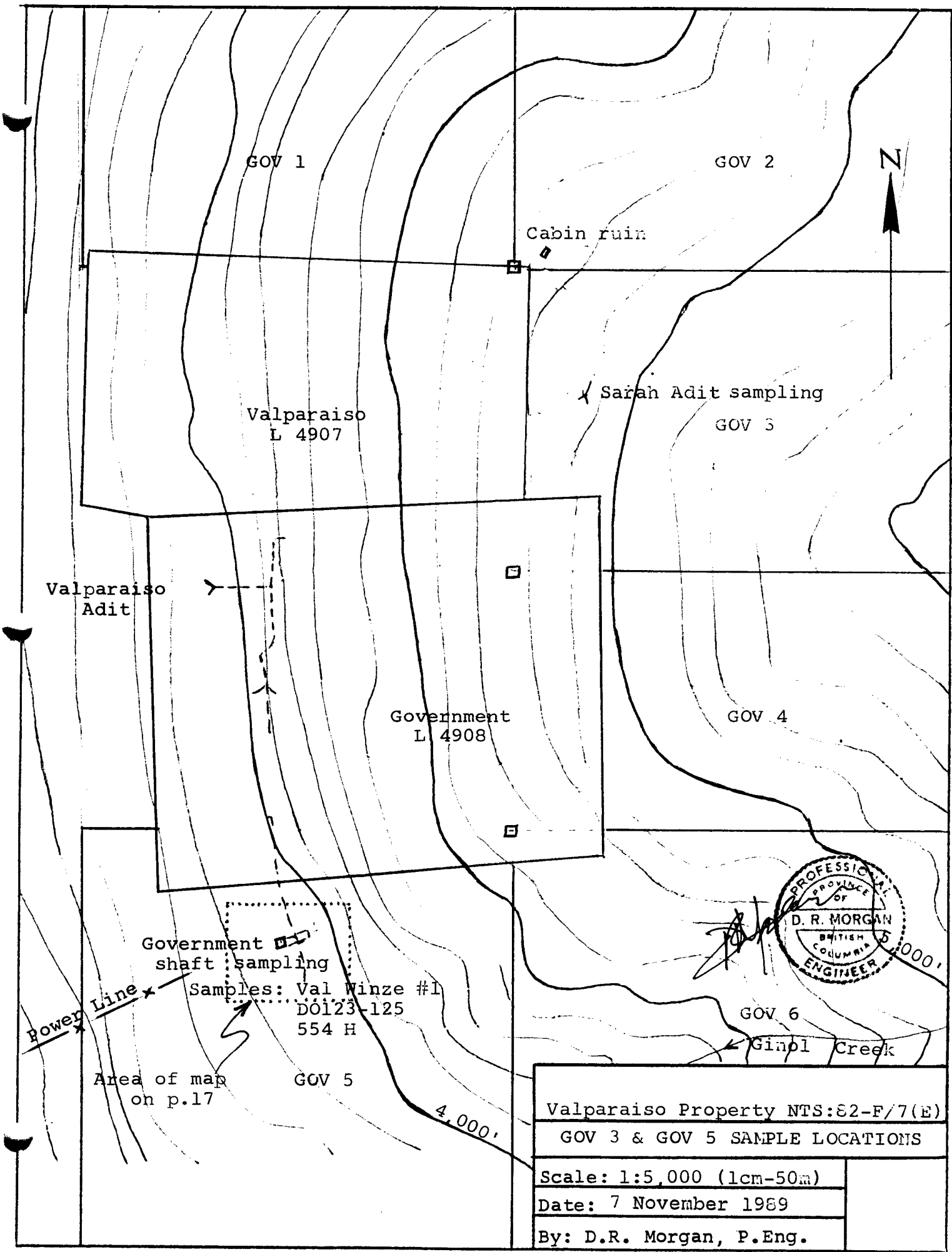
7 - 1 General: Grey, medium grained granodiorites of the Bayonne Batholith underlie most of the property and host the Valparaiso and Sarah veins. The Valparaiso and Sarah veins were examined and sampled as detailed in the next section under "Mineralization."

7 - 2 Mineralization: Selected portions of the Valparaiso and Sarah veins were sampled on two occasions. The locations of this sampling appear on the maps, pages 7 & 8. The descriptions of this sampling appear below.

Sampling by Dylan Watt, November 9, 10 1988:

Sample

- Sarah # 1 "Quartz vein material with abundant sulphides (over 25%). Pyrite as disseminated crystals; galena as blebs on the hanging wall. Malachite (chalcopyrite?) associated with pyrite.
- Sarah # 2 Sample across 15 cm wide vein. Attitude: $020^{\circ}/45^{\circ}E$. Vuggy quartz vein in silicified zone with pyrite boxwork and minor malachite stain.
- Sarah # 3 5 m north of # 2. Approximately 20% galena with minor pyrite and malachite from a 15 cm heavily iron-stained quartz vein.



Area of map on p.17

Valparaiso Property NTS:82-F/7(E)	
GOV 3 & GOV 5 SAMPLE LOCATIONS	
Scale: 1:5,000 (1cm=50m)	
Date: 7 November 1989	
By: D.R. Morgan, P.Eng.	

pit } Sarah # 4 sample



pit } Sarah # 3
Sarah # 2

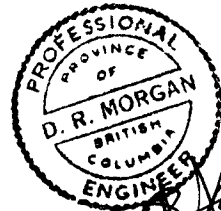
020°
45°

GOVERNMENT 3 CLAIM

Sarah # 1

H 551 H
140° 55'

Sarah Adit (caved)
Adit dump samples: 553 H
Sarah 5



pit } 552 H

Valparaiso Property NTS:82-F/7(E)	
SARAH ADIT, GOV 3 CLAIM	
Scale: 1:1,000 (1cm-10m)	
Date: 7 November 1989	
By: D.R. Morgan, P.Eng.	

- Sarah # 4 Quartz vein material from the floor of an open cut on the vein 120 m north of the portal. The sample showed weak galena and pyrite mineralization.
- Sarah # 5 Grab sample taken off the adit dump. Quartz vein material with minor pyrite and galena.
- Val Winze #1 Sample of quartz vein and hanging wall fault gouge from south wall of shaft approximately 3 m below collar. Sample width 1.4 m.

<u>Sample #</u>	<u>Au(ozs/ton)Ag</u>	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>
Sarah # 1	0.001	0.89	0.04%	+ 1% 0.46%
Sarah # 2	0.001	0.61	0.12%	+ 1% 0.05%
Sarah # 3	0.002	1.00	0.04%	+ 1% 0.20%
Sarah # 4	0.005	1.20	0.02%	0.52% 0.03%
Sarah # 5	0.016	0.84	0.001%	0.04% 0.01%
Val Winze #1	0.090	0.89	--	0.10% 0.03%

Sampling by Donald W. Tully, P. Eng., 11 November 1988:

Sample #

- D0123 Chip sample across a true width of 75 cm on south hanging wall at portal of inclined shaft. Rock is chiefly rusty mylonite. Limonite and arsenopyrite are abundant. Opaque quartz vein fragments in mylonite. Sparse fine pyrite is present. Brecciated zone dips east at -42.
- D0124 Chip sample across a true width of 75 cm of foot wall of brecciated quartz veining in a granite host adjacent to sample DO 123. Mylonitized granite with limonite, fine pyrite and scattered grains of arsenopyrite.
- D0125 Selected grab of white to semi-translucent quartz vein in kaolinized and sericitized shear in granite; abundant limonite, sparse pyrite and galena in fine grains.

<u>Sample #</u>	<u>Au(ozs/ton)Ag</u>	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>	<u>W</u>
D0123	0.082	0.72	0.14%	0.06% 0.01%	0.05%
D0124	0.128	0.80	0.09%	0.13% 0.06%	0.03%
D0125	0.009	0.08	0.01%	0.38% 0.02%	tr

Sampling by Steven J. Radvak, P. Eng., 29 May 1989Sample #

- 551 H 30 cm chip of quartz vein with pyrite and weak oxide staining. Hanging wall is 60 cm of lamprophyre dyke. Up to 2% pyrite in quartz. Strike $140^{\circ}/55^{\circ}$. Sample taken 75 m at 070° from Sarah adit.
- 552 H Grab sample of quartz bragging pile with 2-5%pyrite, weak to moderate Mn staining and weak iron oxide staining. This sample from 100 m south of Sarah adit in small open pit that indicates the vein may have been mined, but no pack trail exists. Zone probably 30 cm wide also.
- 553 H Grab sample of quartz vein with heavy copper oxide staining from dump at portal of Sarah adit. Pyrite 2%.
- 554 H 75 cm chip sample of quartz vein at Government manway.

<u>Sample #</u>	<u>Au(ozs/ton)Ag</u>	<u>Cu</u>
551 H	0.002	0.18
552 H	0.018	0.20
553 H	0.006	1.69
554 H	0.100	0.73

0.21%

-

8 - 0 REFERENCES:

1. Curtin, C.J. "Gold Relief Claims," February 1936.
2. Rice H.M.A. "Nelson Map Area, East Half," Memoir 228,
G.S.C., 1941.
3. Hougland, E. "Palouse Company Property," for Palouse Co.,
Ltd, January 1959.
4. Reeve, A.F. "Destiny Bay Properties," for North Pacific
Mines Ltd., 20 May 1964.
5. Greene, A.S. "Destiny Bay Properties - Hot Group of Claims,"
for Custom Mining Ltd., 12 November 1981.

Annual Reports, B.C. Minister of Mines:

Year:	'00	'02	'03	'24	'26	'27	'32	'33	'34	'53	'54	'55
Page:	85	302	242	449	285	320	195	200	A27	121	129	54

9 - 0 STATEMENT OF COSTS:Geologists:

Dylan Watt, 8-10 Nov. 1988, 3 days inc. one day travel, 3 x \$350.	1,050.	
Don Tully, P. Eng., 10-11 Nov. 1988, 2 days inc 1 day travel, 2 x \$400.	800.	
D.R. Morgan, P. Eng, report writing, 2 days at \$400/day:	800.	

Mining Engineers:

Steven Radvak, Jr., 26-28 May 1989, 3 days inc 1 day travel: 3 x \$350.	1,050.	
William Radvak, 26-28 May 1989, 3 days inc 1 daytravel: 3 x \$250.	<u>750.</u>	4,450.

Room & Board:

Motels	240.	
Meals:	<u>350.</u>	590.

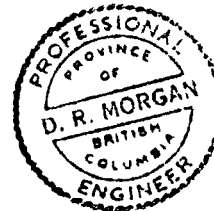
Transportation:

<u>650.</u>	
<u>5,690.</u>	

Signed,



 David R, Morgan, Geologist, P. Eng.
 Vancouver, B.C. 7 November 1989



10 - 0 STATEMENT OF QUALIFICATIONS:

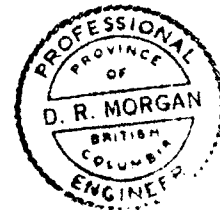
I, David R. Morgan of 2154 West 5th Avenue, Vancouver, B.C., V6K 1S2 do hereby certify that:

1. I am a 1954 graduate of McGill University, Montreal with a B.Sc Degree in Honours Geology.
2. I am a registered member, in good standing, of the Association of Professional Engineers of the Province of British Columbia.
3. The work described in this report is based on the field observations of the engineers whose names appear under section 9 - 0 Statement of Costs, and also on the writer's personal knowledge of the property.

Signed,



David R. Morgan, Geologist, P. Eng.
Vancouver, B.C. November



ADDENDUM

to

A Geological Report on the GOV 3 & GOV 5 Claims

Dated: 7 November 1989

and assigned Assessment Report # 19464

this Addendum Dated: 18 June 1990

by

D.R. Morgan, P. Eng.

INTRODUCTION: This addendum describes a reconnaissance VLF-EM survey carried out on the GOV 5 Mineral Claim by Dylan Watt, geologist on the 10th November 1988. It is provided in response to a request by T.E. Kalnins, P.Eng, Chief Gold Commissioner's Office, Victoria, B.C., for amendments under Section 1(2) and 5(4) of the Mineral Tenure Act Regulations. Since the results of this survey were essentially negative, the Geological Report classification of this assessment filing remains unchanged.

PURPOSE OF VLF-EM SURVEY: The purpose of this survey, carried out on the 10th November 1988, was to determine whether an Electromagnetic (EM) survey using the very low frequency (VLF) transmissions from the U.S. Navy transmitters at Annapolis, Maryland and Cutler, Maine could detect the known mineralization adjacent to the main shaft

on the GOV 5 claim. The U.S. Navy transmitter at Seattle was not operational at the time of this survey. If this survey had been successful, the type of readings obtained over known mineralization - the 'signature' - could have been a useful guide to interpreting results obtained with this equipment in a more widespread search.

PROCEDURE: The instrument used in this survey was a "Phoenix", model "VLF-2". The operator, geologist Dylan Watt, ran two 100 metre east-west lines, one 35 metres north of the main shaft on the GOV 5 claim and one 35 metres to the south of the shaft. Readings were taken at 15 metre intervals along these lines. (see accompanying plan).

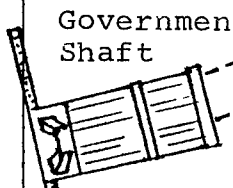
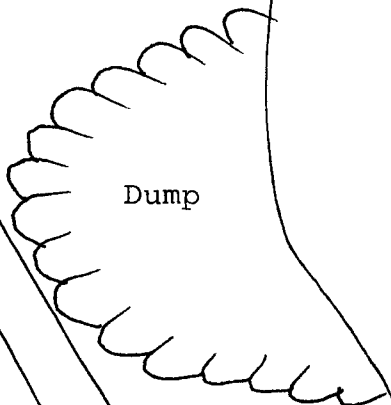
At each station readings of dip in degrees and total field strength expressed as a percentage were taken using the signals transmitted by Cutler and Annapolis. This raw data has been entered directly on to the accompanying map.

RESULTS: This survey failed to detect the conductive sulphide mineralization exposed by the underground workings in the Government shaft vicinity. This was due primarily to the orientation of the vein structure with respect to the transmitters. Since none of the other transmitters in the VLF spectrum are better oriented, this type of survey may not be applicable to this vein system, or to other undiscovered ones parallel to it.

2°N 8°S 2°S 6°S 4°S 8°S 0° 4°S 0° 4°S 0° 4°S 0° 4°S 2°S 4°S
 105% 115% 115% 110% 125% 115% 125% 125% 125% 120% 125% 130% 130% 130% 130% 130% 120%



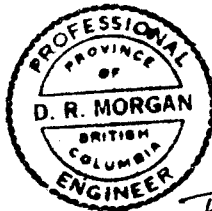
116m/300° to
 S.W. corner of
 L. 4908



Cutler 098°
 Annapolis 113°

KEY

2°N 8°S Degrees dip
 105% 115% % of total field strength
 Cutler, Annapolis values, values



[Handwritten signature]

0° 4° 4°S 6°S 2°N 4°S 2°N 4°S 2°N 4°S
 90% 100% 90% 100% 100% 90% 110% 90% 125% 95%

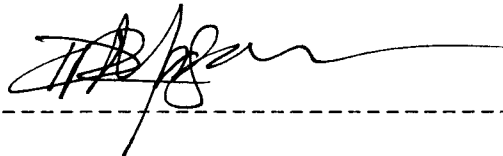
UTM Grid
 520000m E

UTM Grid
 5473300m N

VLF-EM RECONNAISSANCE SURVEY GOV 5 CLAIM	
NELSON M.D. NTS: 82-F/7(E)	
Scale: 1:500 (1cm-5m)	17
Date: 18 June 1990	
By: D.R. Morgan, P.Eng.	

CONCLUSIONS: As mentioned above under 'RESULTS', the lack of suitably oriented transmitters in this survey gave it poor results. To set up a transmitter on the property with ideal orientation would require laying out a 2 km long cable parallel to the structure and about 2 km from the grid. This technique would require a lot of refining in the field to give the proper response off the vein structure, and it is possible that it would not give a significantly improvement. Further experiments of this type are necessary to reveal the most useful EM technique.

Signed,



David R. Morgan, Geologist, P.Eng.

18 June 1990

Vancouver, B.C.

