

**GEOLOGICAL-DRILLING REPORT**

DATE RECEIVED  
SEP 19 1996

ON THE

**DNA MINERAL CLAIMS  
VERNON MINING DIVISION, BRITISH COLUMBIA**

NTS 82L/1W

Latitude 50°10'N  
Longitude 118°25'W

On Behalf Of

**CARBON REEF RESOURCES INC.**

and

**OWNERS: HAROLD JONES AND WILLIAM YORKE-HARDY:**

By

James W. McLeod, P. Geo.  
#203 1318 56<sup>th</sup> Street

Delta, B.C.

V4L2A4

**RECEIVED**  
SEP 16 1996  
Gold Commissioner's Office  
VANCOUVER, B.C.

**FILMED**

**GEOLOGICAL SURVEY BRANCH**  
September 10, 1996 **ASSESSMENT REPORT**

**24,552**

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## **INTRODUCTION**

During June-July 1996 the writer supervised a diamond core drilling program on the DNA mineral claims situated near mountain, Keefer Lake area, in the Vernon Mining Division, British Columbia. The program consisted of drilling three vertical holes; DDH 96-1&2 were drilled to test the information gained from the 1974 airtrack-type percussion drilling program by twinning these drill holes; DDH 96-3 was drilled above a previously untested (drill) surface occurrence of a 1 metre wide, flat lying quartz vein or sill which had returned significant gold values from surface sampling by the writer. Drill core recovery was good in all holes and considerable geological information was gained from the drilling program.

## **LOCATION AND ACCESS**

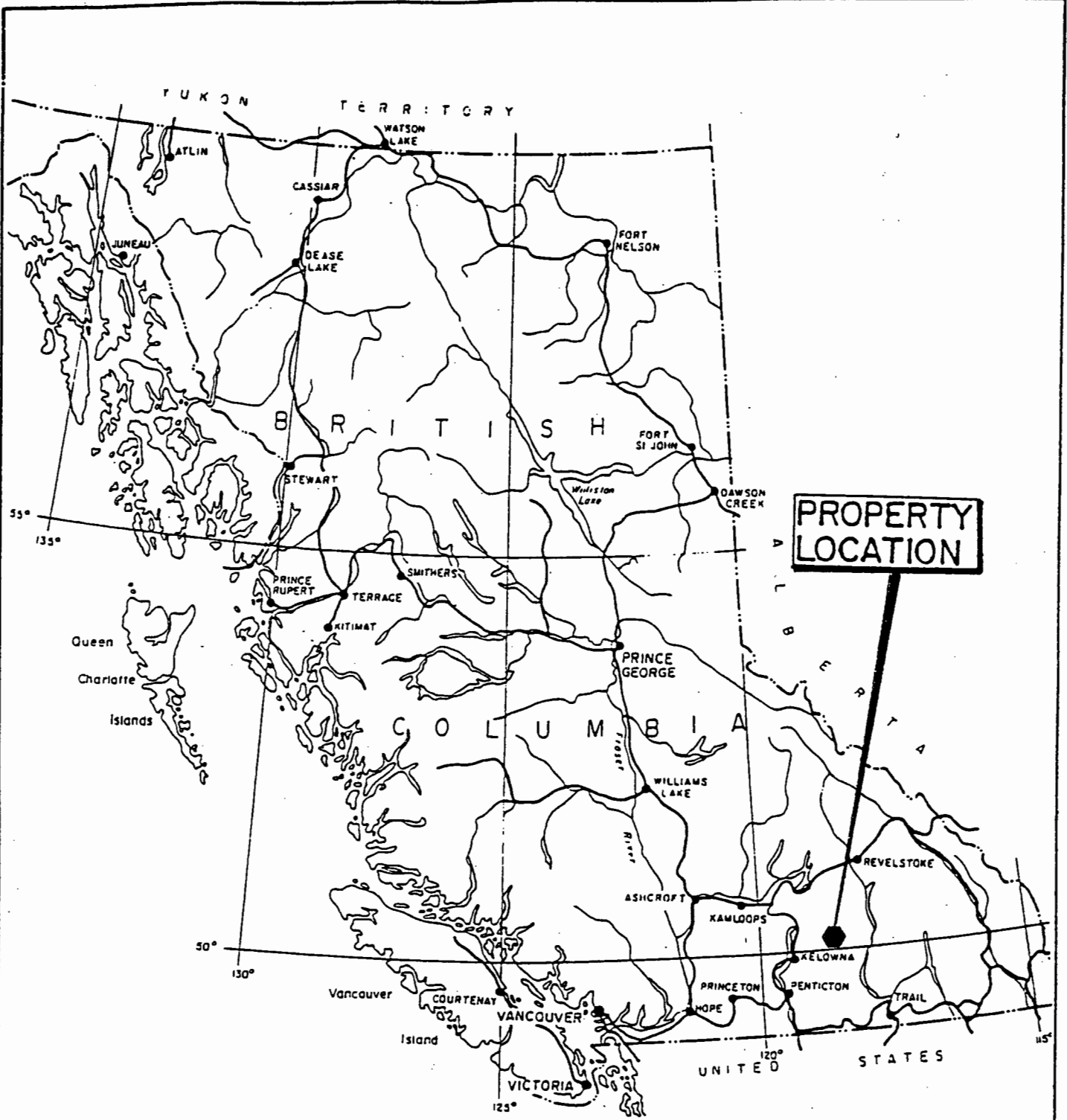
The DNA mineral claims are located on the most easterly knoll of Monashee Mountain immediately north of the Kettle River on a south-facing slope. The claims may be located on NTS Map Sheet 82L/1W at latitude 50°10'N. and longitude 118°25'W.

Access to the property which is situated approximately 63 air kilometres southeast of Vernon, B.C. in the Vernon Mining Division can be gained by traveling 85 kilometres east of Vernon, B.C. on Highway #6 to the Keefer Lake road and hence 9 kilometres to the property access road which travels north for 2 kilometres to the drill sites.

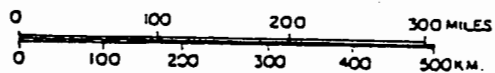
## **TOPOGRAPHICAL AND PHYSICAL ENVIRONMENT**

The property lies on the most easterly ridge of Monashee Mountain between 915 and 1,300 metres elevation, mean sea level.

The claim area is conifer covered, some of which has been logged and lies in moderately steep, mountainous terrain.



**PROPERTY  
LOCATION**



**CARBON REEF RESOURCES INC.**

**YEOWARD MTN. PROPERTY  
LOCATION MAP**

N.T.S. 82L-1W

VERNON M.D., B.C.

SCALE : AS SHOWN

DATE : SEPT. 1994

DRAWN BY : J.M.

FIGURE NO. 1

The property is situated in the Interior Wet Belt and may experience 120 cm of precipitation annually of which 15 % usually occurs as snow.

### **PROPERTY AND OWNERSHIP**

The property which consists of the DNA1 and DNA 3 mineral claims covers an area of approximately 600 hectares. The claims are listed as follows:

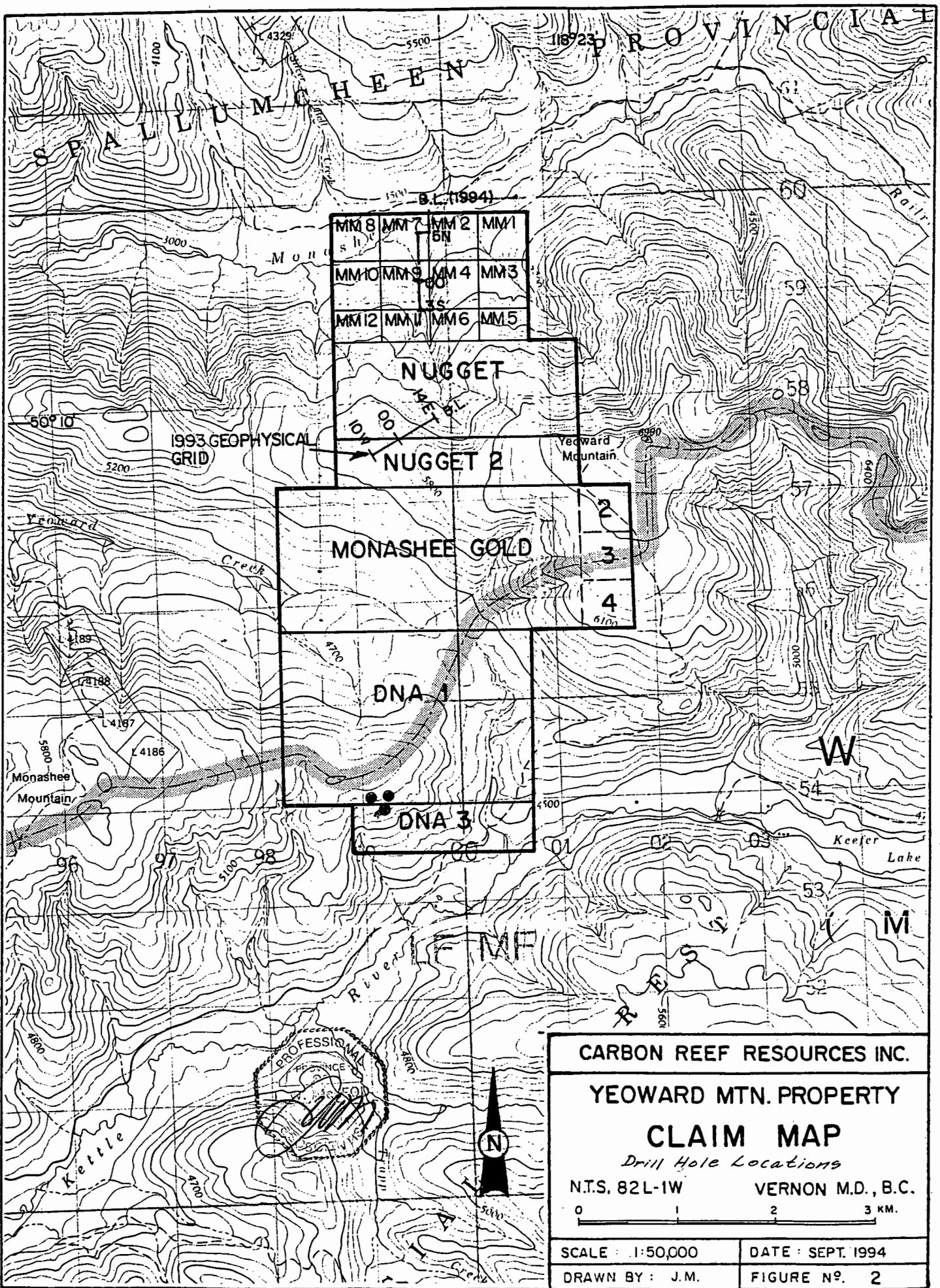
**Table 1**

<b>Claim Name</b>	<b>Record Number</b>	<b>No. of Units</b>	<b>Anniversary Date</b>
DNA 1	310836	20	June 20, 1998
DNA 3	310838	4	June 19, 1998

The DNA 1 and 3 mineral claims are owned by Mr. Harold Jones of Richmond, B.C. and Mr. Wm. Yorke-Hardy of Kelowna, B.C.

### **HISTORY**

The DNA 1 and 3 (formerly the Donna) mineral claims were located as a result of a district prospecting and stream sediment sampling program conducted by El Paso Mining and Milling Company during 1973. During the same year the Company conducted geological mapping, rock sampling, reconnaissance grid-controlled soil sampling which revealed a number of anomalous coincident arsenic-gold zones, backhoe trenching and a subsequent airtrack-type of percussion drilling program. El Paso ceased exploring in British Columbia in 1975 and transferred the property to their former geologists. During 1982-88 Keefer Resources Ltd. carried-out trenching, sampling and further soil sampling in other previously untested parts of the property. In 1992 Phelps Dodge of Canada carried out a soil sampling program (Fox, 1993) which outlined a 2 kilometre long arsenic and coincident gold anomaly. In 1993 Carbon Reef Resources Inc. optioned the claims and others claims adjacent to the north and at various times from then to the present



**CARBON REEF RESOURCES INC.**

**YEOWARD MTN. PROPERTY**

**CLAIM MAP**

*Drill Hole Locations*

N.T.S. 82L-1W      VERNON M.D., B.C.

0      1      2      3 KM.

SCALE : 1:50,000	DATE : SEPT. 1994
DRAWN BY : J.M.	FIGURE NO. 2

conducted mapping, sampling, geophysical surveys comprised of VLF-EM, magnetometer and self (spontaneous) potential (SP) and the current core drilling program.

## **REGIONAL GEOLOGY**

The general area is underlain by a west-northwest trending interlayered package of sediments and volcanics of the Thompson Assemblage which has been assigned a Carboniferous-Permian (possibly to Triassic) age, formerly referred to as the Cache Creek Group. The Thompson Assemblage appears unconformably overlain on the north by mixed sediments and volcanics assigned to the Slocan Group which are thought to be of Triassic age or older. The Slocan Group is in turn overlain on the north by volcanic rocks of the Nicola group which are thought to be of Triassic age. These sediments and volcanic rock units generally exhibit low grade metamorphism (greenschist facies) due to what is thought to be regional causes ie. possibly compression and low angle detachment along thrust faults.

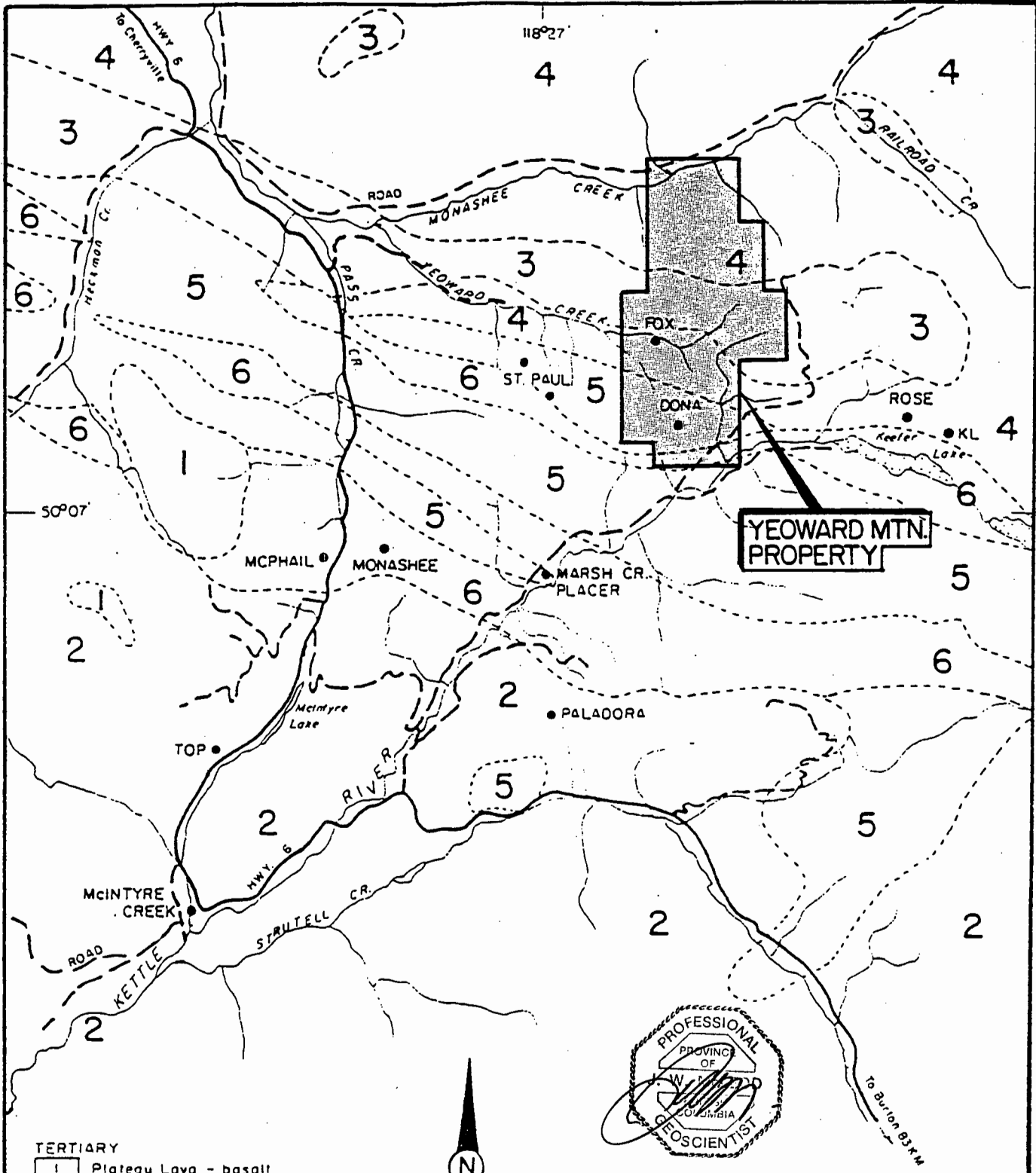
The general area has been affected by the Valhalla Complex intrusive events of Jurassic age. The intrusive rocks observed are most often of granodiorite to diorite (rhyodacite to andesite) composition.

Tertiary plateau basalts occur regionally as a cap rock or as valley flows. Fault bounded blocks are common, probably down-dropped along low angle normal faults against high grade metamorphic rocks of the Okanagan and Monashee complexes..

## **PROPERTY GEOLOGY**

The DNA mineral claim area exhibits sparse rock exposure except in the areas of previous bulldozer and backhoe trenching undertaken in 1984 which are now partially sloughed. These trenched areas afford sufficient exposure to allow fairly complete surface geological mapping (see Figure 4).

The local geology has been summarized most completely by Jones (1992):



- TERTIARY**  
 1 Plateau Lava - basalt
- JURASSIC**  
 2 Intrusive Rocks
- TRIASSIC**  
 3 Nicola Group - andesite, basalt  
 4 Slokan Group - mixed sedimentary & volcanic rocks
- CARBONIFEROUS & PERMIAN (MAY INCLUDE TRIASSIC)**  
 5 Thompson Assemblage - siliceous argillite, volcanoclastic sandstone, quartzite, breccia, greenstone & tuff  
 6 Limestone, chert
- Geological contact  
 ● Mineral occurrences



**CARBON REEF RESOURCES INC.**

**YEOWARD MTN. PROPERTY  
 REGIONAL GEOLOGY  
 LUMBY AREA, B.C.**

NTS 82LIW      VERNON M.D.

0 1 2 3 6 KM.

SCALE 1:125,000	SEPT. 1994	FIG. 3
J.M.		

AFTER G.S.C. B  
 H. JONES & ASSOCIATES INC. 1992



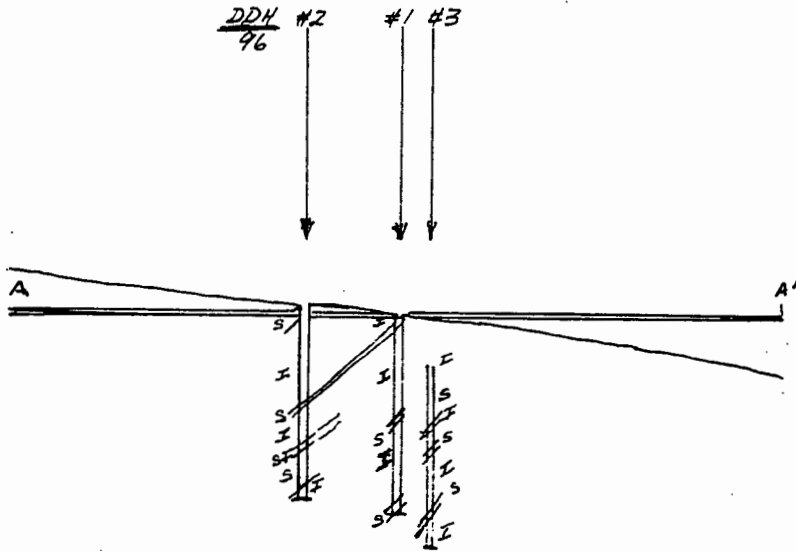
The initial mapping by El Paso indicated that the property was underlain by northwest-trending, interbedded limy argillites and tuffs which were intruded by a sill-like dioritic unit. Due to variations in the diorite - colour, grain size, texture and alteration - it is difficult in the field, at times to distinguish it from some of the volcanic (crystal tuff) units.

The three current drill holes (DDH 96 1-3) generally reveal an intrusive character to the underlying rock ie. hornblende diorite with short intervening sections of skarn. The skarn sections are altered sediments and/or tuffs. Some of the altered crystalline tuffs may be indistinguishable from the intruding rocks, in hand specimen examination. Minor sections of a phyllitic textured rock are probably strongly foliated sediments with a high mica content, ie. shales or argillites which were later altered by the enclosing intrusive rock.

The obvious alteration assemblage noted in all three drill holes was skarnification of the interlayered sediments and tuffs by emplacement of the sub-concordant intrusive sections. Some sections exhibit very weak alteration which appear to have been indurated and contain chalky-textured plagioclase feldspars. Other alteration minerals observed are chlorite and sericite which are often seen to occur on the quartz veinlet walls. Calcite-welding of fractures is common throughout sections of the core.

Mineralization most commonly observed was as disseminated pyrrhotite (bronze-coloured and magnetic), pyrrhotite which in at least one location was concentrated on an intrusive-skarn contact, pyrite and/or arsenopyrite sometimes in discrete alternating layers within quartz veinlets. The gold values encountered in very narrow sulphide mineralized intervals are thought to be contained in the arsenopyrite.

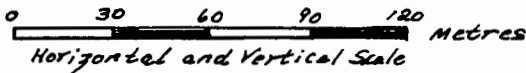
Examination of the drill core helps to confirm the westward dipping nature of the underlying volcano-sediments and the apparently concordant intrusives. Observed foliations found on adjacent, but differently trending fracture surfaces suggests at least two directions of fracturing and possibly two periods of sulphide mineralization.



*Legend*

- I - Homblende diorite*
- S - Skarn (seds. or tuff)*
- DDH - Diamond Drill Hole No.*
- A to A' - Cross Section - Fig. 4*

*\* Note: Plane of Cross Section N045° or Looking Toward N315°*



<b>CARBON REEF RESOURCES INC.</b>	
DNA PROPERTY Keefe Lake Area, Vernon M.D.B.C.	
DDH 96 1-3 Schematic Cross Section	
NTS B2L11W	Sept., 1996
J.W. McLeod	Figure 5

## PRESENT WORK PROGRAM

The present work program consists of rock sampling and a three hole; AQ-wireline diamond core drilling program. The drill used was a Boyles BBS-1 gas-driven , screw feed machine. Some property road rehabilitation was undertaken to allow drill access. The three drill holes DDH 96 1-3 are listed as follows:

Hole Number	Grid Location	Dip	Depth (m)
DDH 96-1	5000N 5000E	-90°	60.98
DDH 96-2	4982N 4979E	-90°	60.06
DDH 96-3	4963N 5052E	-90°	<u>56.40</u>
		TOTAL	<u>177.44 metres</u>

The drill core is stored in wooden core boxes at the writer's home in Delta, B.C.

The drill core was logged (see Appendix II) and selected sections were cut using a diamond saw. The selected sections were bagged and taken into Acme Analytical Laboratories Ltd. in Vancouver, B.C. where the samples underwent multi-element analyses by induction coupled plasma (ICP) and/or fire assay (see Appendix I).

## CONCLUSIONS

The current fieldwork program revealed a number of features about the claim area which are listed as follows:

- 1) The underlying interlayered sediment and volcanic package has been intruded by a diorite member in a sub-concordant manner which gives the intrusive zones the appearance of being sills. Actually the cross section may look more like a westward dipping en echelon sequence of intrusive fingers into the overlying bedded units.
- 2) The development of skarn zones which are rather diffuse in appearance are probably due to the original nature of the altered beds, ie. shales, argillites and tuffs as opposed to an intermingling of limestone units, if they had been present in the stratified package and the original character of the intrusive. The intrusive itself may have been somewhat quiescent in a structural and reactive sense. In other words the optimum setting may not have been present at the horizon tested by the present drill program.
- 3) The gold values encountered in the original air-track holes, P-14 through P-17 appear to have been spread-out over sections of greater length than their actual occurrence. For example quartz stringers containing arsenopyrite are actually found to occur over very narrow widths, ie. 3 cm. with alternating layers of pyrite and arsenopyrite.
- 4) The two drill holes, DDH 96 1&2 which are the highest in elevation (Trench No. 4) both bottom (EOH) in skarn which indicates intermittent occurrences of gold bearing quartz stringers over 60 metres vertical interval. Trench No. 1 occurs 60 metres vertically below the bottom of DDH 96-1 giving a vertical interval of gold occurrences over 120 metres vertical distance. Three diamond core holes, even with good core recovery are not a sufficient test on which to base a negative response to the whole property.
- 5) There is the possibility that a more prepared and receptive zone for the concentration of gold values exists within this property.

## RECOMMENDATIONS

The DNA property exhibits considerable size to the occurrence of anomalous gold values albeit their present indications of narrow zones of arsenopyrite bearing quartz veins and stringers. The property, in the writers' estimation has not been sufficiently tested to determine if an economic grade or size of deposit is present on the property. For these reasons further drilling is recommended for the property.

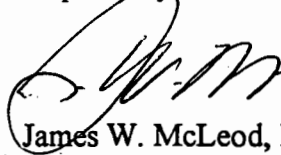
Depending on the drilling method used, ie. diamond core drilling or reverse circulation percussion it is expected that one to two months would be needed to complete this program and that the estimated cost of this program would be approximately \$300,000.

## COST ESTIMATE

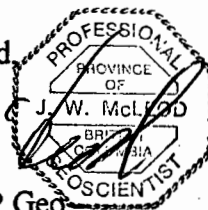
Geology and supervision	\$ 12,000
Drilling -1,500 m @ \$140/m (contract - all inclusive)	210,000
Site preparation and water	25,000
Transportation	5,000
Camp and board - 60 mandays @ \$100/manday	6,000
Maps and reports	3,000
Insurance, WCB, licences, fees and permits	8,000
Assays and analyses	10,000
Contingency	<u>21,000</u>

**Total** **\$300,000**

Respectfully submitted,



James W. McLeod, P. Geo.



## STATEMENT OF COSTS

Geology and supervision, James W. McLeod, P. Geo.	\$ 3,500
AQ-wireline diamond drilling program, all inclusive except room and board @ \$140/metre, G.D. Drilling of Surrey, B.C.	24,640
Drill site preparation	900
Camp and board, 35 man days @ \$80/man day	2,800
Equipment and supplies	590
Transportation	700
Analyses and Assays @ \$11/sample	240
Report and Maps	800
Fees and licenses, includes FMC, recording and cost to bond fees	830
<b>TOTAL</b>	<b>\$35,000</b>

Note: The drill cost of \$140/metre includes a standby 450 John Deere tractor and a 1,000 gallon water truck which was necessary for part of the project. The equipment was mobilized and de-mobilized from Forest Grove, B.C. The drilling contractor was operating to obtain core recovery as his primary objective.

The following lists the dates and rates of the project:


<u>Date</u>	<u>Hole</u>	<u>Rate</u>	<u>Remarks</u>
June 22	DDH 96-1	0-1.83	Overburden
		1.83-6.20	Core, recovery mod.
June 23	DDH 96-1	2.60-25.5	Core, rec. g'd
June 24	DDH 96-1	25.5-37.9	Core, rec. g'd
June 25	DDH 96-1	37.9-60.98	Core, rec. g'd. EOH
June 26	DDH 96-2	0-4.12	Casing overburden
June 26	DDH 96-2	4.12-37.90	Core, rec. mod.
June 27	DDH 96-2	37.9-57.64	Core, rec. g'd
June 28	DDH 96-2	57.64-60.06	Core, rec. g'd. EOH
June 29	DDH 96-3	0-1.37	Casing overburden.
June 29	DDH 96-3	1.37-9.67	Core, rec. g'd.
June 30	DDH 96-3	9.67-21.40	Core, rec. g'd.
July 1	DDH 96-3	21.4-48.68	Core, rec. g'd.
July 2	DDH 96-3	48.68-56.40	Core, rec. g'd. EOH


**CERTIFICATE**

I, James J. McLeod, do hereby certify:

1. That I am a consulting geologist with a business office at #203 -1318 56<sup>th</sup> Street, Delta, B.C. V4L 2A4 and President of Carbon Reef Resources Inc..
2. That I am a graduate in geology of University of British Columbia (B.Sc. 1969).
3. That I am a Registered Professional Geologist in good standing with the Association of Professional Engineers and Geoscientists of the Province of British Columbia, Canada.
4. That I have practiced my profession as a geologist for 27 years.
5. That the information regarding the DNA property contained herein is based on private and published descriptions and on numerous ground examinations, the most recent being June-July, 1996 at which time I supervised the current drilling program.

DATED at Delta, B.C. this 10th day of September, 1996.

  
James W. McLeod, P. Geoscientist



## REFERENCES

Jones, H.M. (1992): A Report on the Donna Property, Keefer Lake, Lumby Area, B.C., Vernon Mining Division, 82L/1W. Private Information Summary of Property.

McDougall, J.J. (1994): Report on the Yeoward Mountain Property, Vernon M.D., B.C., for Carbon Reef Resources Inc. A Private Report for the Company.

McLeod, J.W. (1994-96): Three Assessment Reports No.s 23189, 23506 and 24236 for Harry Arnold (2) and Carbon Reef Resources Inc. (1).

Pasieka, C.T. (1973): Verna and Nugget Claims. A pilot geochemical report.



**APPENDIX I**

**GEOCHEMICAL ANALYSES AND ASSAY RESULTS**

AA  
LL

## GEOCHEMICAL ANALYSIS CERTIFICATE

AA  
LLCarbow Reef File # 95-1609

207 - 1318 - 56th St., Delta BC V4L 2A4

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
Sa1	1	45	13	75	.6	10	16	681	5.34	15	<5	<2	2	125	1.0	5	2	135	3.33	.266	14	25	2.06	41	.17	<3	1.95	.08	.32	<2
Sa4	1	53	11	82	.8	10	15	807	6.21	1206	<5	<2	2	276	1.2	6	<2	162	4.92	.208	11	25	2.84	31	.04	<3	2.11	.02	.36	<2
Sa8	1	134	264	440	21.4	8	17	895	8.00	2131	<5	17	2	285	6.2	8	<2	148	5.94	.249	12	23	2.80	45	.03	<3	2.04	.03	.42	<2

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.

ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS &gt; 1%, AG &gt; 30 PPM &amp; AU &gt; 1000 PPB

- SAMPLE TYPE: CORE

DATE RECEIVED: MAY 29 1995

DATE REPORT MAILED: June 12/95

SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

DDH 96-1

	<u>Width</u>	<u>Interval</u>
Sa1 -	10 cm.	2.95m. - 3.05m.
Sa4 -	61 cm.	7.32m. - 7.93m.
Sa8 -	61 cm.	14.33m. - 14.94m.

## ASSAY CERTIFICATE



Carbow Reef File # 95-1609

207 - 1318 - 56th St., Delta BC V4L 2A4

SAMPLE#	Ag** oz/t	Au** oz/t	width DDH 96-1 GRAB-INTERNAL
Sa1	<.01	<.001	10cm - 295 cm - 305 cm.
Sa2	<.01	.003	6cm - 610 cm - 671 cm.
Sa3	.02	.023	6cm - 671 cm - 732 cm.
Sa4	.03	.005	6cm - 732 cm - 793 cm.
Sa5	<.01	.012	6cm - 793 cm - 854 cm.
RE Sa5	<.01	.012	
Sa6	<.01	.007	6cm - 854 cm - 915 centimetres
Sa7	<.01	.008	6cm - 13.72m - 14.33m.
Sa8	.18	.294	6cm - 14.33m - 14.94 metres
STANDARD AG-1/AU-1	.97	.099	

AG\*\* &amp; AU\*\* BY FIRE ASSAY FROM 1 A.T. SAMPLE.

- SAMPLE TYPE: CORE

Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: MAY 29 1995

DATE REPORT MAILED:

May 30/95

SIGNED BY: .....D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

AA  
LL

## ASSAY CERTIFICATE

AA  
LL

Omega Exploration File # 95-1698 Page 1

207 - 1318 - 56th St., Delta BC V4L 2A4

SAMPLE#	Au** OZ/t	DDH 96-1	
		width	Interval
#1 30-35	.005	1.52 m.	9.15 m. - 10.67 m.
#1 49-53	.010	1.22 m.	14.94 m. - 16.16 m.
#1 53-58	.003	1.52 m.	16.16 m. - 17.68 m.
#1 58-63	.003	1.52 m.	17.68 m. - 19.20 m.
#1 74-78	.001	1.22 m.	22.56 m. - 23.78 m.
#1 78-82	.005	1.22 m.	23.78 m. - 25.00 m.
#1 84-89	.002	1.52 m.	25.61 m. - 27.13 m.
#1 89-91	<.001	0.61 m.	27.13 m. - 27.74 m.
#1 123-125	.019	0.61 m.	37.50 m. - 38.11 m.
RE #1 123-125	.021		
RRE #1 123-125	.017		
#1 138-142	.017	1.22 m.	42.07 m. - 43.29 m.
#1 147-152	.020	1.52 m.	44.82 m. - 46.34 m.
#1 189-193	<.001	1.22 m.	57.62 m. - 58.84 m.
STANDARD AU-1	.095		

AU\*\* BY FIRE ASSAY FROM 1 A.T. SAMPLE.

- SAMPLE TYPE: P1 CORE P2 SLUDGE

Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUN 5 1995

DATE REPORT MAILED: June 8/95

SIGNED BY..... P. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#

Au\*\*  
oz/t

96-1

width

Interval

DDH-95-1 0-9  
DDH-95-1 9-19<.001  
.0132.74m.  
3.05m.0. - 2.74m.  
2.74m. - 5.79m.Sample type: SLUDGE.

**APPENDIX II**

**DRILL CORE LOGS**

DRILL CORE LOG

Company: Carbon Reef Resources Inc.  
Project: DNA mineral claims  
Area: Keefer Lake Area, Vernon M.D.B.C.  
Date: September 10, 1996

Hole No.: DDH 96-1  
Location: 5000N 5000E  
Azimuth:  
Dip: -90 degrees  
Total depth: 61 metres  
Core Type: AQ-wireline

Interval (m)	Description	Alt'n	Min'n	Fracture	% Rec.
0-1.83	Casing				
1.83-2.74	Broken pebbles of f-m gr. size muscovite-hrnbl. diorite				60%
2.74-6.40	Still same int. - plag 7 <sup>9/10</sup> K-spar	Mod. chl. Min. talc Mod. ser. of plag.	3-5% po. 0.5% py. Po diss. Py fract's	L to c.a.	95%
6.40-6.55	Qtz vein with py on contacts		py		100%
6.55-8.84	X'tal Tuffe abund. K-spar	calcite mod. chlorite abund.	Diab. po	calcite - welded @ 45° to c.a.	95%+
8.84-10.82	Crystall Tuff	q.v. -30° to c.a.	py 7 po + arseno.	-30° to c.a.	95%+
10.82-19.21	Intensive (attered) f-m gr. chlorit. -ized - siliceo	Qv. 3cm. @ 15.95 chl-ser.	3-5% po Py on q.v. nulls	Po, Py Arseno?	95
19.21-19.51	Int. c. inc. in K-spar	Qv	py.	21 N-20° N-45°	95
19.51-26.98	Int. (attered)	q.v. chlorite	Py in q.v.		95%
26.98-27.90	Skarny - phyllite. contact c int -30° to c.a.	q.v. in steps	py contact	-30° contact	

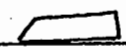
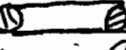




DRILL CORE LOG

Company: Carbon Reef Resources Inc.  
Project: DNA mineral claims  
Area: Keefer Lake Area, Vernon M.D.B.C.  
Date: September 10, 1996


Hole No.: DDH 96-2  
Location: 4982N 4979E  
Azimuth:  
Dip: -90 degrees  
Total depth: 60.06 metres  
Core Type: AQ-wireline

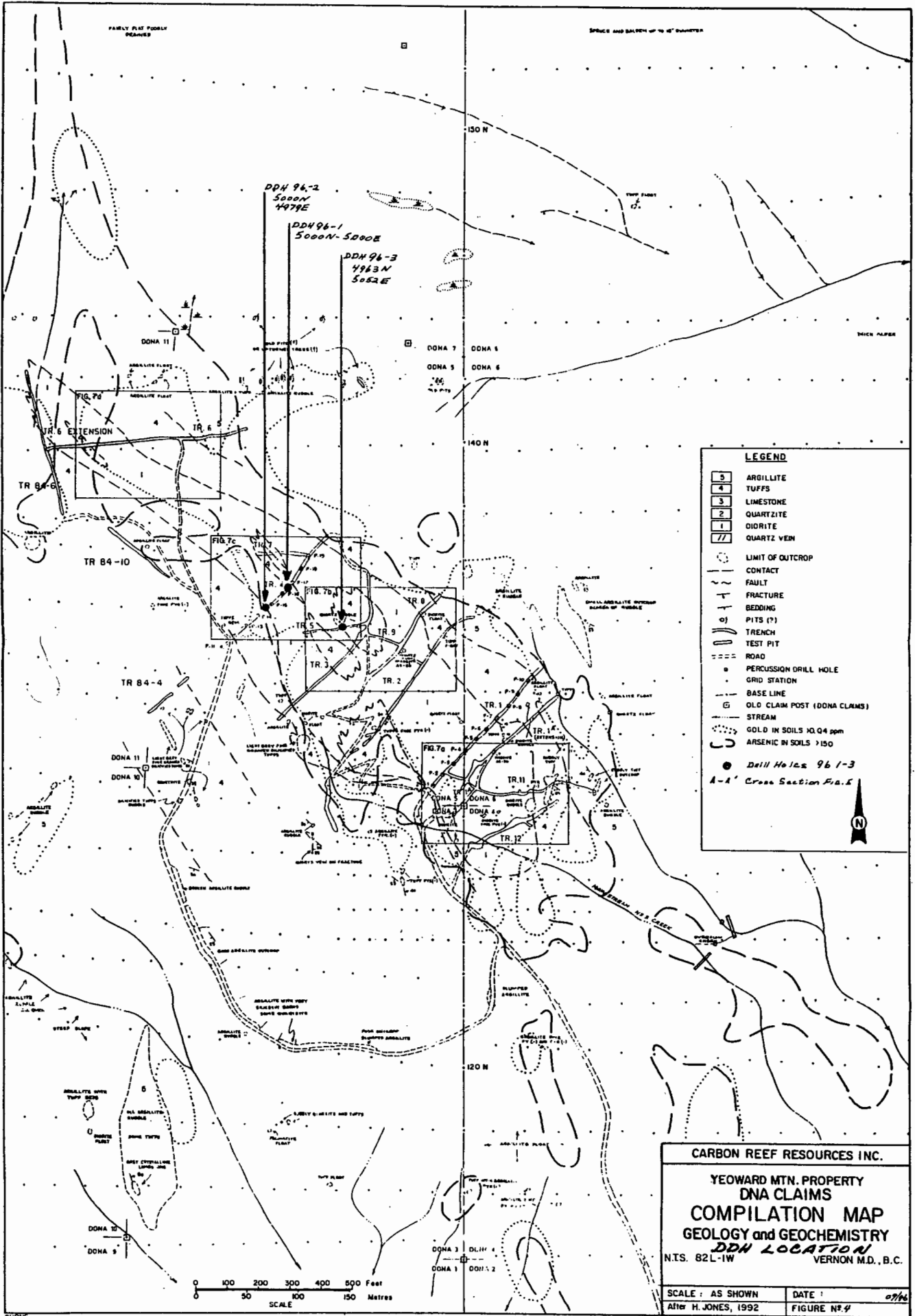
Inter-Val (m)	Description	Alt'n	Min'n	Fracture	Gold	Silver	% Rec.
0-4.12	Casing						
4.12-4.57	Skarn						70
4.57-29.88	Intrusive (diorite). May have primary (1°) magnetite.	2° biotite in discrete narrow zones Some q.v.	Separate Po and py zones				90+
29.88-30.79	Skarn						95+
30.79-42.38	Int: diorite with narrow attack zones. Very minor hornblende.	q.v.	py				95+
42.38-53.66	Mix skarn & minor int (diorite) or tuff? sections	q.v. 2cm.	py.				95+
53.66-58.19	Int. with minor skarn sections						
58.23-60.06	Relat. unalt. hornblende diorite	mmn	po	2 - -45° -28-30°			95+
E0H		Chlor		ie  =  + 2 diff. foliations			

DRILL CORE LOG

Company: Carbon Reef Resources Inc.  
Project: DNA mineral claims  
Area: Keefer Lake Area, Vernon M.D.B.C.  
Date: September 10, 1996

Hole No.: DDH 96-3  
Location: 4963N 5052E  
Azimuth:  
Dip: -90 degrees  
Total depth: 56.40 metres  
Core Type: AQ-wireline

Inter-Val (m)	Description	Alt'n	Min'n	Fracture	Gold	Silver	% Rec.
0-1.37	Casing						
1.37-2.44	Weath. F. gr (horn-plug) diorite						70
2.44-13.41	Skarn (contact - 30° to c.a.)	Calcite on fracture	Po common E Bd. and near contact + also L to c.a.	Some breccia			90+
13.41-18.29	H. gh fract. Skarn? much talc. of faults	talc calcite Mn	po	Cracked section E po			95+
18.29-23.48	Skarn		Conc. py. 22.87				95+
23.48-49.09	Diorite (contact - 45° to c.a.)			Two P's in ie. 			
49.09-50.61	Skarny l. ocean-green.	talc fract's E q'tz	po, very minor py	" talc fract's			95+
50.61-56.40 EDH	Hornblende diorite with 1° magnetite.						95+



**LEGEND**

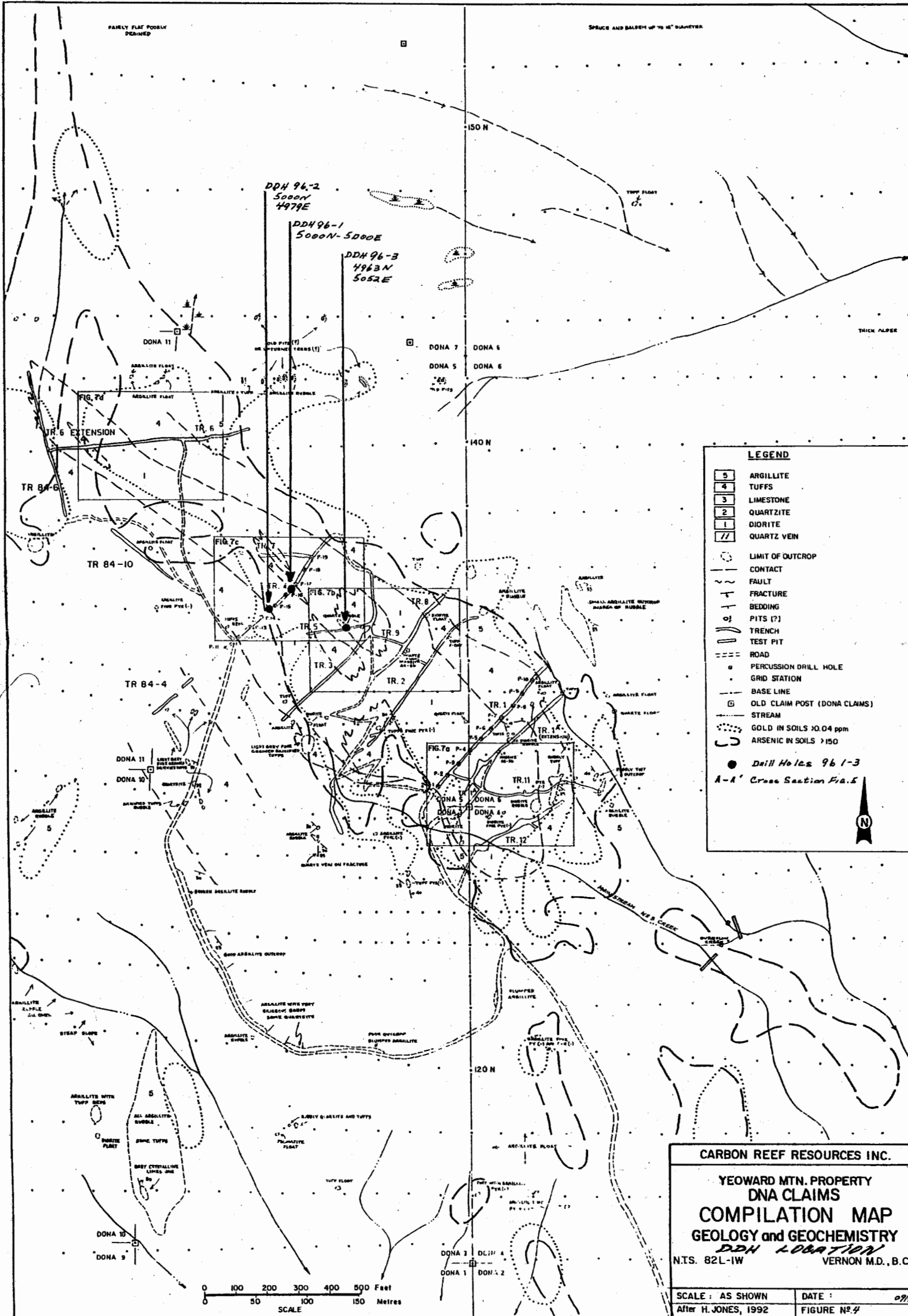
- 5 ARGILLITE
- 4 TUFFS
- 3 LIMESTONE
- 2 QUARTZITE
- 1 DIORITE
- /// QUARTZ VEIN
- LIMIT OF OUTCROP
- CONTACT
- - - FAULT
- - - FRACTURE
- - - BEDDING
- PITS (?)
- - - TRENCH
- TEST PIT
- - - ROAD
- PERCUSSION DRILL HOLE
- GRID STATION
- - - BASE LINE
- OLD CLAIM POST (DONA CLAIMS)
- - - STREAM
- GOLD IN SOILS > 0.04 ppm
- ARSENIC IN SOILS > 150
- Drill Holes 96 1-3
- A-A' Cross Section Fig. 5

**CARBON REEF RESOURCES INC.**

**YEOWARD MTN. PROPERTY  
DNA CLAIMS  
COMPILATION MAP  
GEOLOGY and GEOCHEMISTRY  
DDN LOCATION**

N.T.S. 82L-1W VERNON M.D., B.C.

SCALE: AS SHOWN DATE: 07/96  
 After H. JONES, 1992 FIGURE No. 4



**LEGEND**

- 5 ARGILLITE
- 4 TUFFS
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- 1 DIORITE
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SCALE: AS SHOWN	DATE: 07/96
After H. JONES, 1992	FIGURE No. 4