

ASSESSMENT REPORT  
(DIAMOND DRILLING)

For

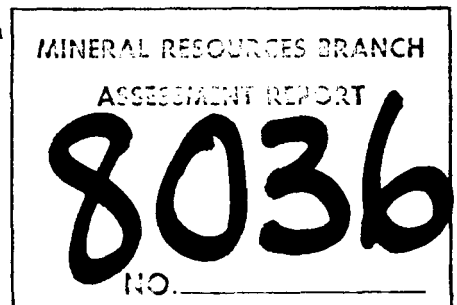
C.D.R. RESOURCES INC.  
900 - 1420 Sherbrooke Street West  
Montreal, P.Q.  
H3G 1K5  
(Owners and Operators)

TOLMAN LAKE PROPERTY  
NICOLA MINING DIVISION  
MERRITT, B.C.  
50°18N; 120°46'W. N.T.S. 92-1/7W

CLAIMS: Sunshine 1-16  
LO 6, 7  
Paul 1-4  
Paul-5 Fraction

Prepared by

L.S. TRENHOLME, P.Eng.  
508 - 475 Howe Street  
Vancouver, B.C.  
V6C 2B3



May 14, 1980

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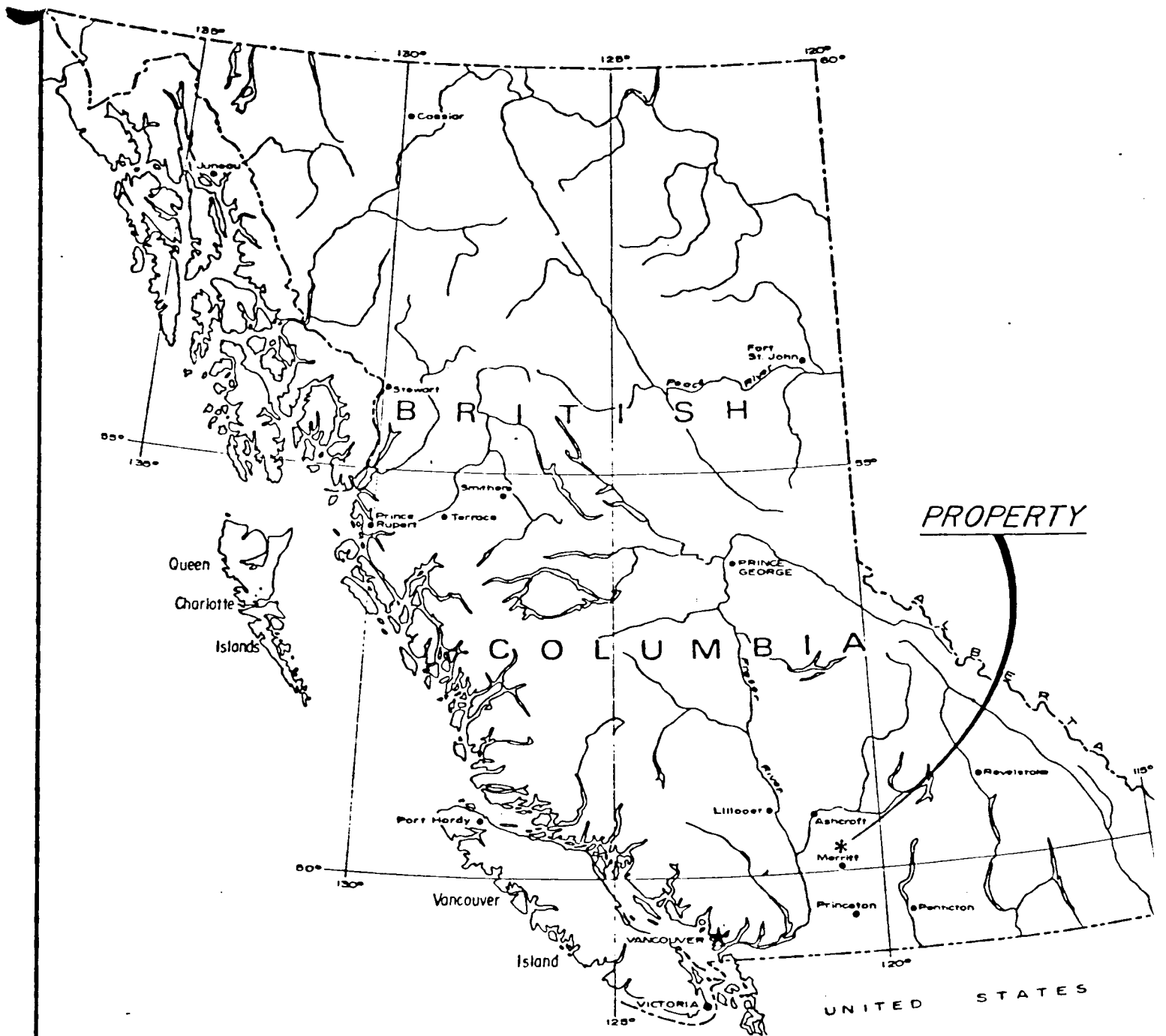


Figure 1.  
 C.D.R. RESOURCES INC.  
 TOLMAN LAKE PROPERTY  
 LOCATION MAP

NICOLA M.D., B.C.

Miles 100 50 0 100 200 Miles

## INTRODUCTION

C.D.R. Resources Inc. (formerly Highland Lode Mines Ltd.) is the registered owner of 23 mineral claims in the vicinity of Tolman Lake, 20 km. north of Merritt, B.C. in the Nicola Mining Division.

Between December 21, 1979 and March 3, 1980 the company carried out a program of diamond drilling in 12 holes totalling 587 metres. The drilling and associated costs involved expenditures in excess of \$89,000.

The property is located at Lat.  $50^{\circ}18'N$ ; Long.  $120^{\circ}46'W$  and is accessible by 5 km. of truck road running easterly from the Merritt-Mammit Lake Road at a point 23 km. north of Lower Nicola.

Topographic relief is moderate, with elevation of 1500 m. to 1650 m. above sea level. The area is well wooded, with ample water for drilling and camp purposes.

## PROPERTY

The Tolman Lake property of C.D.R. Resources Inc. consists of the following mineral claims:

<u>Name</u>	<u>Record Number</u>	<u>Renewal Date</u>
Sunshine 3-8	22361-22366	June 1, 1980
Sunshine 1, 2, 9, 10	22367-22370	June 4, 1980
Sunshine 11-16	22431-22436	June 19, 1980
LO 6,7	20917-20918	June 19, 1980

The above claims had been held by a predecessor company, Highland Lode Mines Ltd. for many years.

Five additional claims were staked for C.D.R. Resources Inc.

in December, 1979 as follows:

<u>Name</u>	<u>Location Date</u>	<u>Record No.</u>	<u>Record Date</u>
Paul 1-4	December 18, 1979	785-788	January 8, 1980
Paul 5 Fr.	December 22, 1979	789	January 8, 1980

The disposition of these claims is shown on Figure 2 (page

### WORK HISTORY AND REFERENCES

Results of work by earlier operators to 1977 is summarized in Tables 1 and 2 (pages 4 & 5 ).

### 1980 DRILLING RESULTS

The drilling was contracted to Connors Drilling, working from their Merritt operational base. Because core recovery was critical, the drillers employed H.Q. equipment using various stabilizing additives. H.Q. gives a core of 2½" (6.35 cm.) diameter. Considering winter conditions and mud-mixing problems, core recovery was generally good, over 90%.

Holes H-1 to H-10 were designed to test Zone III (Adit Zone) and to confirm, if possible, reserve estimates made by earlier examiners in the amount of 258,000 tonnes with a grade of 4.80% zinc, 1.69% lead and 0.36 oz/ton silver.

Although the controlling fault structure was interested in all ten holes, the drilling showed serious discontinuities in the metallic mineralization (Table 3, page 6) indicating that the foregoing estimate could not be substantiated, at least in that part of the structure thus far explored by drilling.

Three holes (H-10, H-11 and H-12) were drilled on a common

section under Zone 11 with somewhat better results (Table 3) with combined averages as follows:

<u>Average Core Length</u>	<u>Average % Pb</u>	<u>Average % Zn</u>	<u>Average oz/ton Ag</u>	<u>Average % Cu</u>
3.25 m.	0.157	4.10	0.07	0.17

In addition, 29 of the better mineralized samples were assayed for gold, with negative results (less than 0.003 ounces per ton).

#### GENERAL GEOLOGY

A strong northeasterly-striking fault zone cuts through Nicola Volcanic rocks. The fault zone is characterized by northwesterly-dipping gouge zones several metres in width, with adjacent volcanics being severely brecciated. The breccia zones are generally cemented by quartz and calcite accompanied by metallic sulphides of zinc, lead, and copper. These locally attain heavy to massive concentrations and are accompanied by small amounts of silver, roughly 0.5 ounces per ton.

TABLE 1

C.D.R. RESOURCES, INC.

TOLMAN LAKE PROPERTY

WORK HISTORY

To 1977

<u>Year</u>	<u>Work</u>	<u>Done By</u>	<u>Reference</u>
1965	Sunshine 8 - 5200 El. - Open Cuts Sunshine 11 and 13 - Trenching and D.D. - El. 5350 Total 12 holes (3000')	Vastlode Mining Co. Ltd.  See results	B.C.M.M.R. 1965 - p. 150 1966 - p. 165
1966	2 holes Sunshine #8 3 more holes Claims 11-13	(No. 2 Zone)	
1967	Sunshine #1 near LO #15 "N60°E 2000' from Tolman L., El. 4800 ft." Trenching - 7 D.D.H.s along 500' strike. Results #2 and #3. Holes 1-11 on Sunshine 1	San Doh Mines Ltd.	Sookochoff 16-3-78 B.C.M.M.R. 1967 - p. 163
1968	Adit 985' Zone 3 Zone "had been tested by 16 D.D.H.s totaling 2829'." Test holes	San Doh Mines Ltd. (No. 3 Zone)	1968 - p. 197
1969	Geological Mapping	Highland Lode Mines Ltd.	1969 - p. 269
1970	No report		
1971	Surface Mapping 1" = 40' 3 U.G. D.D.H.s (450')	Highland Lode Mines Ltd. (No. 3 Zone)	1971 - p. 345
1972	6 D.D.H.s (2162') on S-1, Elva 1, Lee 22 2 miles road building	Highland Lode Mines Ltd.	1972 - p. 158
1976	VLF-EM Survey, Geochem. (Nos. 1, 2, and 3 Zones)	For Ruskin Develop- ment	David Mark (Geotronics)
1977	4 D.D.H.s (NQ) 690' No. 3 Zone	Ruskin Development	Sookochoff



TABLE 2

SUMMARY OF DRILL CORE INTERSECTIONS

NO. 3 ZONE To 1977

<u>HOLE</u>	<u>DIP</u>	<u>FROM</u>	<u>TO</u>	<u>FEET</u>	<u>SILVER OZ/TON</u>	<u>LEAD %</u>	<u>ZINC %</u>	<u>COPPER %</u>	<u>GROSS VALU PER TON (*)</u>
67-1	47°	14.0	25.0	9.0	?	?	3.65	0.55	\$ 43.85
67-2	60°	72.0	101.0	29.0	0.59	3.50	5.56	0.30	108.34
67-3	75°	104.0	112.0	8.0	0.35	2.25	11.25	0.42	140.77
67-4	60°	68.0	78.0	10.0	0.64	0.92	2.68	0.41	51.18
		91.0	105.0	14.0	0.35	1.77	1.57	0.15	44.17
67-5	80°	84.0	90.0	6.0	0.45	0.08	1.30	0.10	19.48
		120.0	127.0	7.0	0.05	Tr	1.40	0.05	14.12
67-6	60°	78.0	82.0	4.0	0.55	0.10	1.25	0.10	20.34
67-7	80°	90.0	112.0	22.0	1.15	2.70	8.07	0.22	124.83
		122.0	132.0	10.0	0.06	Tr	7.90	0.28	77.33
67-8	60°	122.0	130.0	8.0	0.23	1.70	1.85	0.13	44.10
67-9	80°	117.0	129.0	12.0	0.76	1.95	2.94	0.06	61.38
67-10	70°	Reported sampled but no assays on hand.							
67-11	90°	72.0	82.0	10.0	1.90	0.50	2.15	0.10	47.90
77-1	65½°	92.5	107.0	14.5	0.24	2.02	5.62	0.35	86.76
77-2	80°	101.0	113.0	12.0	0.18	3.17	8.16	0.36	124.37
77-3	70°	174.0	190.6	16.6	0.10	0.39	1.32	0.30	24.07
Average Intersection				12.0	0.52	1.80	4.60	0.25	\$ 75.60

(\*) Gross Value at current metal prices (Canadian)

		Silver Zinc	\$10.00 per ounce \$ 0.45 per pound		Copper Lead	\$1.00 per pound \$0.66 per pound			
77-4	70°	158.0	163.0	5.0	0.10	0.18	0.36	0.01	\$ 6.87
67-12	?	Information not on hand							
67-13	?	?	?	8.0	0.83	3.01	5.25	0.23	
67-14	?	Information not on hand							
67-15	?	Information not on hand							
67-16	45°	330	342	12	1.75	"Low Values"			

TABLE 3

C.D.C. RESOURCES INC.

SUMMARY OF 1980 DRILLING RESULTS

A - ZONE III

<u>Hole No.</u>	<u>From</u>	<u>To</u>	<u>Feet</u>	<u>% Lead</u>	<u>% Zinc</u>	<u>% Copper</u>	<u>Pb + Zn + Cu</u>	<u>oz/ton Silver</u>	<u>Samples</u>
H-1	235.0	240.0	5.0	0.01	0.66	-	0.67	0.01	1
H-2	210.0	224.0	14.0	0.01	0.31	-	0.32	0.014	3
H-3	186.0	191.0	5.0	0.07	0.23	Tr.	0.30	0.01	1
H-4	158.0	168.0	10.0	0.03	0.09	Tr.	0.12	0.01	2
H-5	160.0	170.0	10.0	0.015	0.54	0.016	0.57	0.01	2
	178.0	183.0	5.0	0.02	0.44	0.017	0.46	0.01	1
	198.0	203.0	5.0	Tr.	0.08	0.09	0.17	0.01	1
	114.0	125.0	9.0	0.02	0.03	Tr.	0.05	0.01	2
	130.0	136.0	6.0	0.06	0.48	0.01	0.55	0.01	2
	154.0	160.0	6.0	0.09	0.16	1.43	-	1.59	1
H-6	165.5	173.0	7.5	1.01	4.75	0.28	6.04	0.21	2
H-7 (or)	157.5	172.0	14.5	0.43	2.27	0.09	2.79	0.05	6
	165.0	170.0	5.0	0.43	4.40	0.19	5.02	0.08	2
H-8 (or)	141.0	155.0	14.0	0.10	1.22	0.02	1.34	0.02	3
	146.0	150.0	4.0	0.12	2.26	0.05	2.43	0.02	1
H-9	129.0	136.0	7.0	0.09	0.34	-	0.43	0.015	2

B - ZONE II

H-10	92.0	108.5	16.5	0.04	1.04	0.09	1.17	0.025	4
H-11	98.5	106.0	7.5	0.37	8.54	0.30	9.21	0.13	3
H-12	112.0	120.0	8.0	0.20	6.25	0.21	6.66	0.12	2

*D.S. Tenholme*  
19/5/80

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CONCLUSIONS AND RECOMMENDATIONS

In spite of the disappointing results from drilling of Zone III, the Tolman Lake property of C.D.R. Resources Inc. is considered to have a good potential for the discovery and development of economic deposits of base metals and silver based on the following:

- 1) Zone II has been only partially explored by drilling and there is no reliable record of drill results (if any) under Zone I which lies to the south of Zone III.
- 2) A VLF-EM survey conducted in 1976 shows a very interesting pattern of intersecting shears with co-incident geochemical anomalies. With the exception of Zones I, II and III these have not, to the writer's knowledge, been tested either by trenching or drilling.

The following procedures are therefore recommended prior to any further drilling program:

- i) General geological mapping of the property at scale of 1:5000
- ii) Detailed mapping in the vicinity of co-incident geochemical -geophysical anomalies at scale of 1:1000
- iii) Detailed soil sampling in vicinity of anomalies obtained in 1976 survey

The foregoing would require a geologist and an assistant 3 to 4 weeks to complete, would cost approximately \$10,000 - \$12,000 and should provide a sound basis for future testing by trenching and/or diamond drilling

Respectfully submitted,

*L.S. Trenholme*  
19/5/80

L.S. TRENHOLME, P.Eng.

CERTIFICATE

The undersigned certifies that:

1. He is a graduate geologist (M.Sc. 1939) and has practised as a mining and exploration geologist continuously to the present time.
2. He is a member in good standing of the Association of Professional Engineers of the Province of British Columbia and conducts a consulting practice from his office at 475 Howe Street, Vancouver, B.C.
3. This report is based on supervision of the drilling program described herein; including surveys for the location of drill holes, core logging and sample selection; and from study of various records in company files.
4. He does not own and does not expect to receive any interest, direct or indirect, in any of the properties described herein, or referred to herein, or in any adjacent properties.
5. He does not own and does not expect to receive any shares or other financial interest, direct or indirect, in C.D.R. Resources Inc.

DATED at Vancouver, B.C. this 14th day of May, 1980.

*L.S. Trenholme*  
*14/5/80*

L.S. TRENHOLME, P.Eng.

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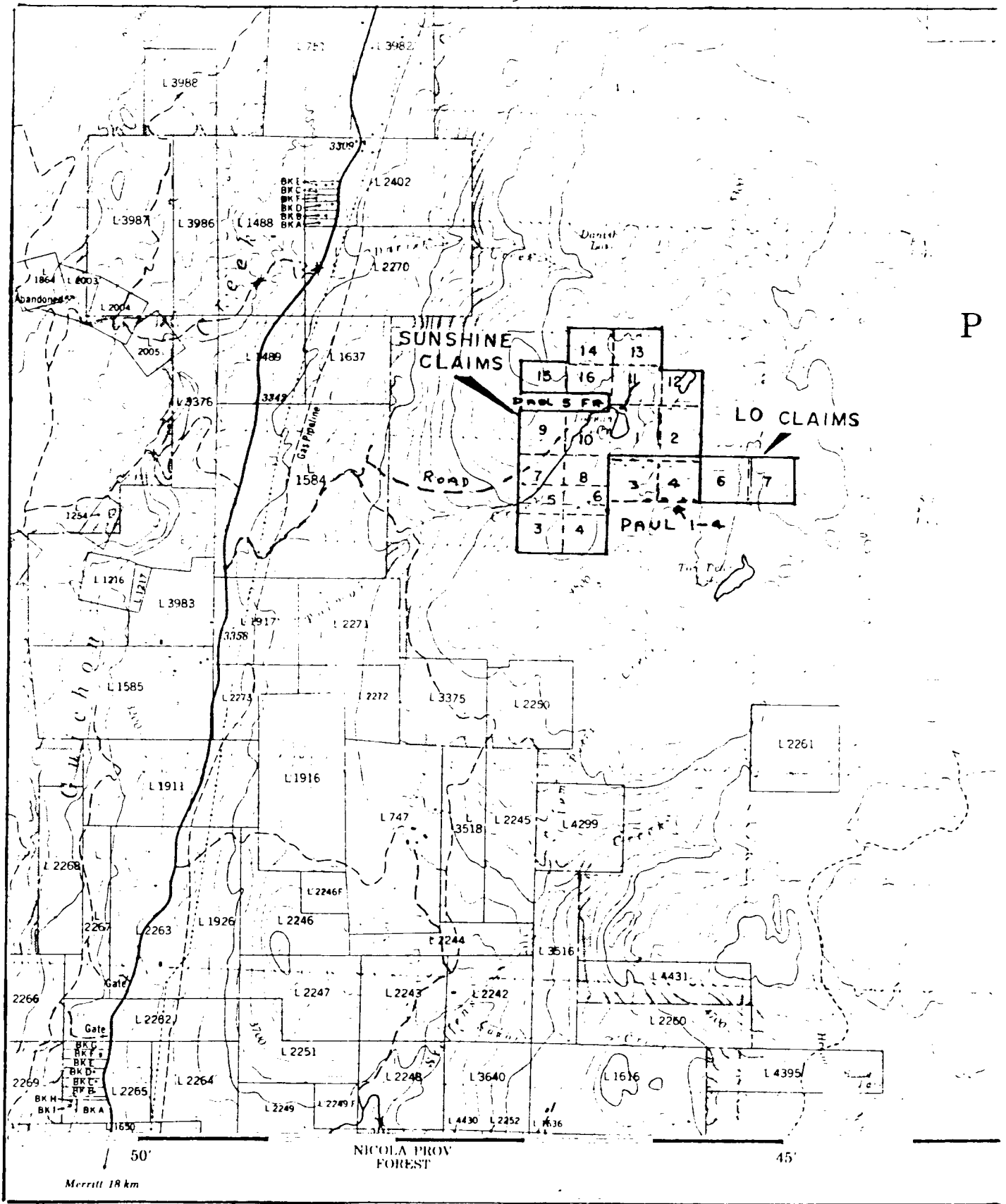


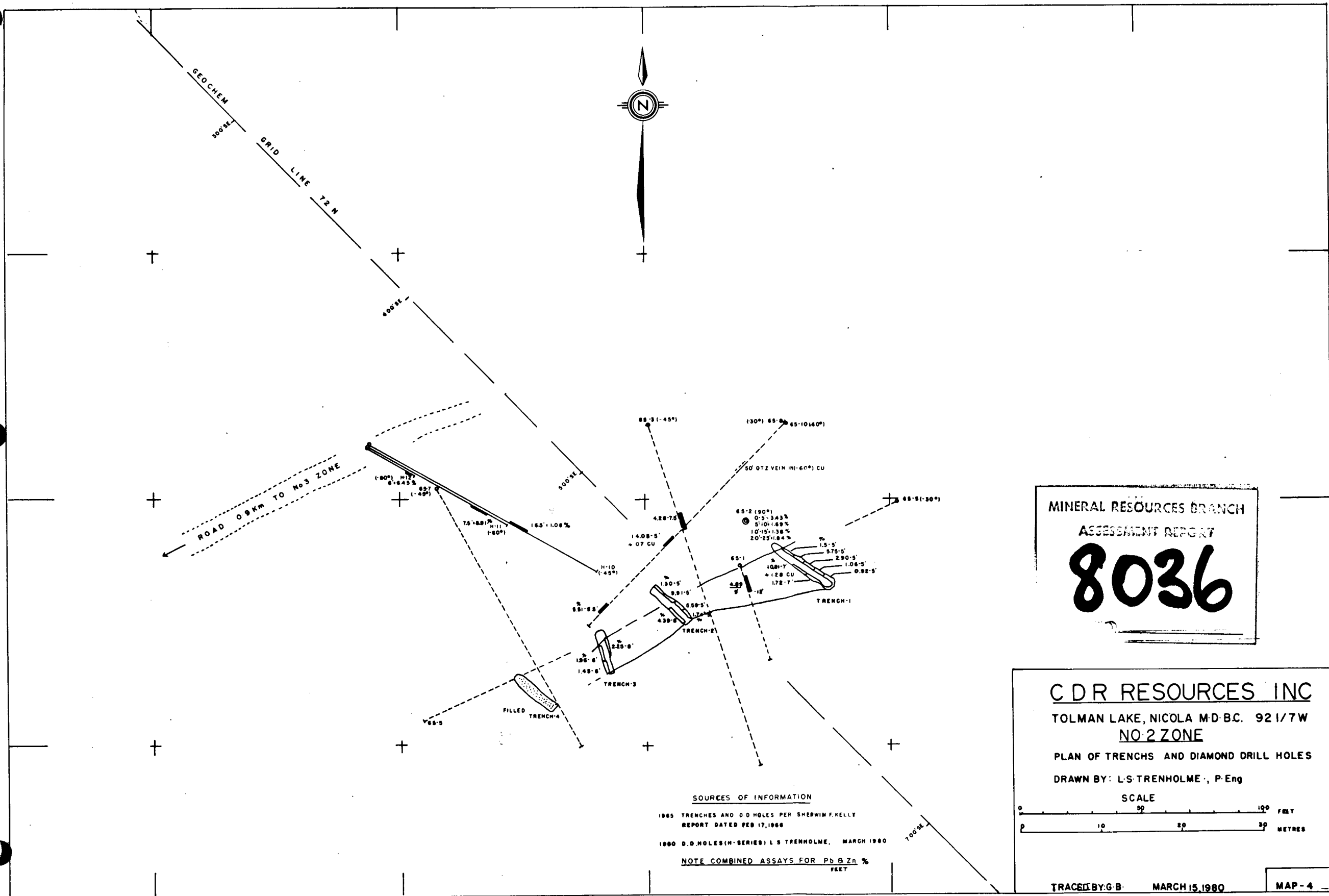
Figure 2  
 C.D.R. RESOURCES, INC.  
 TOLMAN LAKE CLAIMS  
 Nicola Mining Division, B. C.  
 921/7W

Scale: 1:50,000



MAP No. 3

803P



MINERAL RESOURCES BRANCH  
 ASSESSMENT REPORT  
**8036**

C D R RESOURCES INC  
 TOLMAN LAKE, NICOLA M-D-BC. 92 1/7 W  
 NO. 2 ZONE  
 PLAN OF TRENCHS AND DIAMOND DRILL HOLES  
 DRAWN BY: L.S. TRENHOLME, P. Eng  
 SCALE  
 0 50 100 FEET  
 0 10 20 30 METRES  
 TRACED BY: G.B. MARCH 15, 1980 MAP-4

SOURCES OF INFORMATION  
 1965 TRENCHES AND D.D. HOLES PER SHERWIN F. KELLY  
 REPORT DATED FEB 17, 1966  
 1980 D.D. HOLES (H-SERIES) L.S. TRENHOLME, MARCH 1980  
 NOTE COMBINED ASSAYS FOR Pb & Zn %  
 FEET



8039

MAP No. 4

A P P E N D I X 1

Cost Statements (1-6)

6746 MARGUERITE ST.  
VANCOUVER, B.C.  
V6P 5E9

(604) 263-4455

LAURENCE S. TRENHOLME, M.Sc.  
PROF. ENG. B.C.  
CONSULTING GEOLOGIST

C. D. R. RESOURCES INC.

Tolman Lake Project  
Nicola M. D., B. C.

CONNORS DRILLING INVOICES

Job 21-002

<u>Date</u>	<u>Invoice No.</u>	<u>Amount</u>
Feb. 21/80	#10056	\$ 8,097.72
Feb. 21/80	#10057	22,503.25
March 11/80	#10101	1,150.00
March 13/80	#10111	25,722.51
March 19/80	#10125	6,866.11
	TOTAL	<u>\$ 64,339.59</u>

6746 MARGUERITE ST.  
VANCOUVER, B.C.  
V6P 3E9

(604) 263-4455

LAURENCE S. TRENHOLME, M.Sc.  
PROF. ENG. B.C.  
CONSULTING GEOLOGIST

C. D. R. RESOURCES INC.  
TOLMAN LAKE PROJECT

Distribution of wages, fees, expenses  
January 15 - March 31, 1980

	Wages	Expense	Rentals	Total
<u>W. F. Petrie</u> - Box 1023, Merritt, B. C.	+ FEES			
Expediting, Core Handling 12 days @ 80.00	960.00			
4 W.D. Truck Rental 37 d @ 35.00			1,295.00	
Truck fuel		188.31		
Casual Labour		60.00		
Telephone		30.38		<u>\$2,533.69</u>
<u>C. R. Watson</u> - 1638 Canford Ave. Merritt, B. C.				
Core Grabber and Driver 21 days @ 60.00	1260.00			<u>\$1,260.00</u>
<u>Gupta Boggaram</u> - Geologist 2989 West 6th Avenue Vancouver, B. C.				
Fees: 35 days @ 100.00	3500.00			
Food		60.03		
Travel		44.30		<u>\$3,604.33</u>
<u>L. S. Trenholme</u> - 508-475 Howe St Vancouver, B.C. <u>Consulting Geologist</u>				
99 hours, Field @ 35.00	3465.00			
148 hours, Office & Travel @ 25.00	3700.00			
Travel Expenses		592.79		
Food		240.24		
Telephone		178.76		
Miscellaneous, Supplies		44.40		<u>\$8,221.19</u>
<b>TOTAL</b>	<b>\$12,885.00</b>	<b>\$1439.21</b>	<b>\$1,295.00</b>	<b>\$15,619.21</b>

C. D. R. RESOURCES, INC.

TOLMAN LAKE PROJECT

Summary of Expenditures

(January 1 - March 31, 1980)

A. ASSESSMENT WORK

		<u>Cost/Metre</u>
A-1	Core Drilling: (587 metres)	
	Direct Invoices (Connors)	\$ 109.60
	Drill Servicing	10.88
		<u>\$ 120.48</u>
A-2	Support Costs:	
	Geology and Supervision:	
	Fees : 10,665.00	
	Expense <u>1,160.52</u>	\$ 20.14
	Expediting: Core Handling	
	Wages 2,220.00	
	Vehicle Rental 1,295.00	
	Expense - gen. 278.69	
	Instrument rent 197.60	\$ 6.80
		<u>\$ 3,991.29</u>
A-3	General:	
	Accomodation 1,250.82	
	Reports, Maps 210.00	\$ 2.49
		<u>\$ 1,460.82</u>
A-4	Assaying: 1,110.15	\$ 1.89
	TOTAL ASSESSMENT WORK:	<u>\$ 151.80</u>
		<u>\$ 89,112.37</u>

B. NON-ASSESSMENT EXPENDITURES

Staking and Compass Survey \$ 2,320.69

TOTAL EXPENDITURES: \$91,433.06

SCHEDULE OF SERVICE RATES

1. WAGES AND FEES

	<u>Days Worked on Property</u>	<u>Total</u>	<u>Rate</u>
W. F. Petrie	Jan.17-26 incl. Feb.4 - 5	12 days	\$ 80.00 day
C. R. Watson	Feb.8-16, 18-25, March 4-7	21 days	\$ 60.00 day
Gupta Boggaram	Feb.6-March 6 March 13,14,17-20	35 days	\$100.00 day
L. S. Trenholme	Dec.21-22/79. Jan.19, 25-28, Feb.8,9,19,20, 21; March 5th.	99 hours @	\$ 35.00 hour

2. ACCOMODATION (Sportsman's Motel, Merritt, B. C.)

<u>Name</u>	<u>Dates</u>	<u>Days</u>	<u>Daily rate</u>
L. S. Trenholme	Jan.18-31	14	\$ 21.00
G. Boggaram	Feb.6-20	15	\$ 21.00
L. S. Trenholme	Feb.1-20	10	\$ 20.00
G. Boggaram	Feb.21-Mar.5	14	\$ 21.00
L. S. Trenholme	March 4-5	2	\$ 20.00

3. FOOD

I) Purchased and Prepared	\$ 282.30	
II) Meals Purchased	<u>78.00</u>	
		<u>\$360.30</u>

Cost per man day \$6.55

4. TRANSPORTATION - Personnel.

Vancouver - Merritt	(.20/mile)			
	<u>Air</u>	<u>Car</u>	<u>Rental</u>	<u>Total</u>
L. S. Trenholme	\$75.60	335.00	182.19	\$592.79
Gupta Boggaram	44.30	----	----	<u>44.30</u>
				\$637.09

4. TRANSPORTATION (Cont'd).

<u>Merritt - Property</u>	<u>Truck Rental</u>	<u>Gas</u>	
Truck rental @\$35/day	\$1,295.00	\$188.31	\$ 1,483.31
TOTAL TRANSPORTATION:			<u>\$ 2,120.40</u>

5. Instrument Rental:

Transit and Stadia Rod  
B. C. Industries Ltd.  
Jan. 17 - March 7 \$ 197.20

6. Analyses: CHEMEX LABS LTD.  
North Vancouver

ASSAY

Cu, Pb, Zn, Ag, Au	17 @ \$25.00	-	\$ 425.00
Cu, Pb, Zn, Ag	9 @ 22.00	-	198.00
Pb, Zn, Ag	8 @ 17.00	-	136.00
Pb, Zn	5 @ 11.00	-	55.00
Pb, Zn, Ag, Au	10 @ 20.00	-	200.00
Ag, Au	2 @ 9.00	-	18.00
			<u>\$1,032.00</u>

GEOCHEM (includes preparation)

Pb, Zn, Ag	14 @ 4.50	-	63.00
Cu, Pb, Zn, Ag	3 @ 5.05		<u>15.15</u>
			\$ 78.15

ASSAY AND GEOCHEM TOTAL \$1,110.15

7. COST OF REPORT

*Compilation	20 hr. @ \$ 25.00	\$ 500.00
Drafting	6 days @ 100.00	600.00
*Typing & Copying		<u>50.00</u>
		\$1,150.00

\* not included in assessment work disbursements.

8. SNOW PLOWING, MOVING, SITE PREPARATION

Completed on following page

8. SNOW PLOWING, MOVING, SITE PREPARATION (Cont'd).

T. D. 15 Rental	\$1,500/month	x 1½	\$2,250.00
Plus	\$ 35/hour	x 113 hrs.	<u>3,955.00</u>

TOTAL MERRITT SANDBLASTING:	\$6,205.00
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c/o E. Yurkowski, Gen. Delivery, Merritt, B. C.

H. & D. Trucking, Merritt, B. C.

Highway transport - from and to Merritt	<u>\$ 180.00</u>
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TOTAL CONTRACT ANCILLARY	<u><u>\$6,385.00</u></u>
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# Connors Drilling

Division of  
Bow Valley Resource Services Ltd

Suite 205 - 1201 West Pender Street, Vancouver, B.C. V6E 2V2 • (604) 683-2222

2

MEMORANDUM OF AGREEMENT made this 4th day of January 1980.

BETWEEN: C.D.R. RESOURCES INC.,  
1420 Sherbrook St., West,  
Suite 900,  
Montreal,  
Quebec,  
H3G 1K5

(hereinafter referred to as the "COMPANY")

AND: CONNORS DRILLING,  
Division of Bow Valley Resource Services Ltd.,  
#205 - 1201 West Pender Street,  
Vancouver,  
B.C.,  
V6E 2V2

(hereinafter referred to as the "CONTRACTOR")

The CONTRACTOR agrees to perform diamond drilling on the lands of the COMPANY situated near Tolman Lake, near Merritt, B.C., on the following terms and conditions, on 15 days acceptance.

## SPECIFICATIONS

The CONTRACTOR agrees to sink by piping or to bore by diamond drilling 1500 (fifteen hundred) linear feet. And the COMPANY guarantees to the CONTRACTOR a minimum footage of 1500 (fifteen hundred) linear feet in approximately 6 (six) holes with a maximum length or depth of 500 (five hundred) linear feet at an angle no flatter than minus 45 degrees from the horizontal.

It is agreed that the core from the holes shall be approximately 2 13/32 inches in diameter known as HQ3 in the trade and that said core shall be kept in boxes provided by the COMPANY.

Continued...

COMMENCEMENT AND EXECUTION OF WORK:

Work shall be commenced on or around January 15, 1980 with the crews working 10 hours per shift, 7 days per week, or as near that schedule as can be maintained.

PRICES:

a) Mobilization

For drill and equipment from the CONTRACTOR'S base of operation to the first drill site, a lump sum of \$800.00.

b) Demobilization

For drill and equipment from the last drill site to the CONTRACTOR'S base of operation, a lump sum of \$700.00.

c) For Drilling in Bedrock

<u>HQ3 Size</u>			<u>NQ Size</u>		
<u>From</u>	<u>To</u>	<u>Price/Foot</u>	<u>From</u>	<u>To</u>	<u>Price/Foot</u>
0	500 ft.	\$23.25	0	500 ft.	\$21.00

d) Overburden

For piping and/or drilling in overburden at an angle no flatter than minus 45 degrees from the horizontal:

From 0 to 25 feet at \$24.00 per foot.

If the depth of overburden exceeds 25 feet, and the cost exceeds the quoted price per foot, then the price for penetrating overburden for that hole will be at COST.

Prices do not include the COST of calcium chloride, drilling mud and/or mud additives. If required, these will be invoiced to the COMPANY at COST.

The COMPANY will pay at COST for all materials left in holes, or will pay at COST for recovering such material.

e) Cementing and Reaming

It is agreed that if a hole required cementing, wedging, reaming, etc., to allow drilling to proceed, the COMPANY will pay the CONTRACTOR at COST.

f) COST

Any reference to COST in this agreement shall be interpreted as follows:

All labour provided by the CONTRACTOR up to 10 (ten) hours

Continued...

per man per day (70 hours per man per week), will be at the all-inclusive rate of \$25.00 per man hour.

All material, supplies or services provided by the CONTRACTOR will be charged for at their COST plus transportation, sales tax and a nominal 15% for accounting, et cetera.

Where applicable such as in piping, reaming, cementing, wedging, and testing machine time will be charged at the rate of \$20.00 per hour, including fuel and oil.

g) Moves

It is agreed that the COMPANY will pay at COST for all moving between holes for all hours over 5 shift hours per move.

If the CONTRACTOR is required to move back on an old hole for any purpose, the COMPANY will pay the CONTRACTOR at COST for moving to and cleaning out the old hole.

The COMPANY will pay the CONTRACTOR at COST for moving on a hole when there is less than 200 feet of core drilling in that hole.

Moving shall be interpreted to include tearing down, dismantling machinery, moving, securing timber, transportation, site preparation, setting up and laying and dismantling waterlines.

h) Walking Time or Travelling Time

The COMPANY will pay all travelling time over 1 1/2 hours per man per shift at the rate of \$20.00 per man hour.

i) Water

The COMPANY agrees to pay at COST of supplying and maintaining water supply lines from an adequate source to the drill site when such distance exceeds 1200 feet or lifts of 100 feet.

j) Delays

It is agreed that at the same time the COMPANY notifies the CONTRACTOR to cease drilling on a hole, the COMPANY will also inform the CONTRACTOR of the site of the new hole to be drilled. Should the COMPANY fail to locate sites or for any cause which is responsible for delay the operation of the drill, the COMPANY agrees to pay the CONTRACTOR at "stand by" rate for the period that the operation of the drill has been delayed by such failure.

Continued...

k) Standby

Standard rate will be \$65.00 per hour.

When the COMPANY will request equipment remain on location, the standby rental rate, non-operated, will be as follows; Drill including equipment, \$3000.00 per month, plus the COST of demobilizing and mobilizing drill crew.

l) Tests

The CONTRACTOR will furnish a clinometer, test tubes and hydrofluoric acid and make tests for vertical angle only as required by the COMPANY for a charge of \$75.00 per test.

m) Core Boxes

The CONTRACTOR will provide wooden boxes if requested at COST plus 15%.

n) Board and Lodging

The CONTRACTOR will provide room and board for it's crew, at no COST to the COMPANY.

o) Payments

Invoices will be rendered twice monthly, covering the preceding half month, and will be due and payable in full, in Canadian funds, within 30 days of issue.

p) Machinery and Equipment

The CONTRACTOR will supply one unitized 25A complete with rods, core barrels, pumps, diamond set items, fuel, oil etc.

q) Transportation

The COMPANY will provide a tractor to plow roads, move the drill from site to site and prepare drill sites at no COST to the CONTRACTOR.

GENERAL

- a) It is agreed that the CONTRACTOR shall pipe and drill on the site selected by the COMPANY'S Representative and will deliver at the drill site only to such person as the COMPANY may designate all cores taken from the holes drilled.
- b) The CONTRACTOR does not guarantee the direction of the hole beyond the collar.

Continued...

- c) The COMPANY shall provide, at no COST to the CONTRACTOR, all rights of way of ingress and egress to all lands that may be required to enable the CONTRACTOR to carry out the work as specified. The CONTRACTOR shall be permitted to cut and fell any timber on the COMPANY'S property as may be required in the course of the work hereunder, and the COMPANY shall indemnify and save harmless the CONTRACTOR from any assessment for stumpage or other charges of every kind and nature.
- d) Upon completion of the work herin contracted to be performed the CONTRACTOR shall have the right to remove within a reasonable length of time all temporary buildings and other fixtures including trade fixtures, machinery, equipment and appliances placed upon such lands.
- e) It is agreed that, should a cavity or loose and caving material be encountered at a depth which would prevent successful drilling, the CONTRACTOR does not guarantee to drill or sink a hole to any specified depth, but will drill or sink as is practical under existing overburden and rock conditions and the COMPANY will pay for every foot sunk and drilled.
- f) The CONTRACTOR agrees to carry and pay for all proper Workmen's Compensation to cover injuries to all employed by the CONTRACTOR, ON the property of the COMPANY.
- g) The COMPANY agrees, on signing this Agreement, to deposit the sum of \$35,000.00 (thirty-five thousand dollars) to be held by the CONTRACTOR for the puposes of this Contract. It is understood that the above \$35,000.00 (thirty-five thousand dollars) can be used only to apply on the final payment in full to the CONTRACTOR. All other payments to be made from seperate funds.
- h) All COST resulting from the enforcement of Government Regulations or Legislation concerning land use or pollution control measures which may be applied to the work will be borne by the COMPANY.
- i) This Agreement and any dispute arising hereunder shall be interpreted and determined in accordance with the laws of British Columbia.
- j) The CONTRACTOR shall not be held responsible for any delays in carrying out the obligations of this Agreement resulting from Acts of God, strikes, fires, casualties, or other causes beyond the CONTRACTOR'S control.

Continued...

- k) All Government sales taxes and social benefits in force at the time of signing this Contract are included in the quoted prices. All COST increases due to legislated tax or benefit increases which arise after signing of the Contract, will be chargeable to the COMPANY.
- l) This Contract will not be binding upon the COMPANY until approved in writing by an Officer thereof at it's Head Office.

IN WITNESS WHEREOF the parties hereto have hereunder set their hand, this 14<sup>th</sup> day of JANUARY 1980.

Signed and Delivered in the presence of:

[Handwritten Signature]  
[Handwritten Signature]  
 \_\_\_\_\_  
 Witness

C.D.R. RESOURCES INC.  
 1420 Sherbrook St., West  
 Montreal  
 Quebec

per [Handwritten Signature]  
 \_\_\_\_\_  
 Per [Handwritten Signature]  
 Title Secretary

CONNORS DRILLING  
 Division of Bow Valley  
 Resource Services Ltd.

[Handwritten Signature]  
 \_\_\_\_\_  
 Witness

Per [Handwritten Signature]  
 Title: Regional Manager

[Handwritten Signature]  
[Handwritten Signature]

A P P E N D I X 3

1980 Drill Logs  
H-1 to H-12

CORE BOX LOCATION  
North End of  
TOLMAN LAKE

## DIAMOND DRILL RECORD

PROPERTY TOLMAN LAKE - NICOLA M.D. HOLE NO. H-1-80 START 24-JAN-80

CLAIM NO. SUNSHINE - 10 DEPTH TRUE BEARING DIP DEPTH BEARING DIP FINISH 2-FEB-80

LATITUDE 10,311.95 COLLAR S30°E -74° (Per Compass) DEPTH 271' (82.6 m)

DEPARTURE 10,254.34 Ref. Adit Brow = 19,000 N, 10,000 E - El. 4926' LOGGED L.S. TRENHOLME

ELEVATION 5040.23 (TOP OF 2' CASING) H.Q. CORE (2 1/2') DRILL CO. CONNORS

DEPTH FEET	METRES	FORMATION	SAMPLE NO.	SAMPLE LENGHT	OZ. GOLD	OZ. SILVER	% COPPER	C/A
0 - 6.0		CASING						
6 - 16.0	1.8 - 4.8	ANDESITE: "spotted" porphyry Dark green, pale phenos. Moderate fracture Thin carbonate veinlets; sinuous epidote wisps + veinlets.						
16.0 - 20.0	4.8 - 6.1	PALE FLOW(?) Buff, f.g. core angle?						?
20 - 54.0	- 16.45	ANDESITE: segregations black bright plus epidote and talc or serpentine. Platy pyrite	28 - 33	Fractures				60° - 80°
54 - 58	. 17.68	DENSE FLOW: Pale green, pyrrhotite (po) at contact	40 - 52	Badly broken.				70°
58 - 140	17.68 - 42.67	ANDESITE: Black, hard metacrysts. Euhedral chlorite clusters to 3mm. Some calcite fillings 100.5' - 0.2' calcite-filled breccia 120-127 Minor Fault - Crush Zone. 127-140 Massive except irregular calcite veining						80° 40° - 50°
140 - 181	- 55.17	ANDESITE: Flow Bx. 154-160 Core broken 160-181 <del>Flow</del> Rounded fragments; local hematite						
181 - 183	- 55.78	ANDESITE: Fine grained flow						
183 - 209	- 63.70	ANDESITE: Porphyritic; moderate shatter; intermittent green fragments 204-209 Sub-angular reddish fragments						
209 - 224	- 68.28	SHEARED BRECCIA: chlorite, hematite, some pyrite						



# DIAMOND DRILL RECORD

PROPERTY TOLMAN LAKE HOLE NO. H-1-80 START \_\_\_\_\_

CLAIM NO. \_\_\_\_\_ DEPTH BEARING DIP DEPTH BEARING DIP FINISH \_\_\_\_\_

LATITUDE \_\_\_\_\_ DEPTH \_\_\_\_\_

DEPARTURE \_\_\_\_\_ LOGGED \_\_\_\_\_

ELEVATION \_\_\_\_\_ DRILL CO. LEA

DEPTH FEET	METRES	FORMATION	SAMPLE NO.	SAMPLE LENGTH	OZ. GOLD	OZ. SILVER	% COPPER	%
224-230	68.28 - 70.10	BRECCIA: Gouge + Calcite cement	-Very	little	quartz.		LEAD	ZINC.
230-252.5	70.10 - 76.96	"VEIN ZONE."						
230-235	70.10 - 71.62	Siliceous; mylonitized; crush zone	228 B	5.0				
		Few calcite strcs: sericite; local Py. (2%)						
		No vis. galena; possible ZnS.						
235-240	- 73.15	As above; extreme crushing,						
		some fine dark ZnS + Py.	229 B	5.0				
240-245	- 74.67	Siliceous Rock; crackle breccia						
		Local 2% Py; some black ZnS; few						
		specks cuprite (?)	230 B.	5.0				
245-249	- 75.89	Siliceous; chloritic shreds; some						
		black vitreous aggregates; local 2% Py	231 B	5.0				
249-252.5		Few silic'd bands						
252.5-271		BLACK - carbonaceous siltstone						
		Dense; some very fine Py.						
		252.5 - 257	232 B	4.5				
		257.0 - 262	233 B	5.0				
		262.0 - 267	234 B	5.0				
		267.0 - 271.0	235 B	4.0				
<del>271</del>								
271		END DDH-1-80						



# DIAMOND DRILL RECORD

C.D.R. RESOURCES, Inc.

PROPERTY TOLMAN LAKE - NICOLA N.D., B.C. HOLE NO. H-2 (80) START 2 - Feb - 1980

CLAIM NO. SUNSHINE - 10 DEPTH BEARING DIP DEPTH BEARING DIP FINISH 5 - Feb. - 1980

LATITUDE 10, 311 COLLAR S30°E -50° DEPTH 255' (77.7 m)

DEPARTURE 10, 254.3 SAME SET-UP AS H-1-80 LOGGED L.S. TRENHOLME

ELEVATION 5040.28 (TOP of 2' CAS) H.Q. CORE DRILL CO. CONNORS

DEPTH FEET	METRES	FORMATION	SAMPLE NO.	SAMPLE LENGHT	OZ. GOLD	OZ. SILVER	% COPPER	C. A.
0 - 2.0		CASING						
2.0 - 146.0		ANDESITE: Spotted, white metacrysts and small black phenocrysts. Irregular quartz-epidote veinlets; minor calcite. Rusty broken zone 32-33.5. Principal Joints 66°-80°						
146.0 - 161.0		109-127 Intermittent shatter; mud seam @ 127' ANDESITE: Finer grain, dark green, fairly massive; Many irregular calcite veinlets, less epidote.						
161.0 - 196.0		ANDESITE: As to 146; Increase shatter. 176 Increase hematite on fractures 183 1" banded quartz-hematite 186- <del>188</del> <sup>190</sup> Hematite breccia + gouge zone: lost 1.0'						80°
196.0 - 205.0		MAIN FAULT ZONE: Gouge + mylonite.						
205.0 - 224.0		BRECCIA: SILICEOUS CRACKLE Bx. 1% Fine Py						70°
224.0 - 239.0		BRECCIA: SILICEOUS ANGULAR Bx. specks CP + Pbs.						
239.0 - 252.0		FLOW BRECCIA (?) Minor silic'n; Fine veinlets quartz-carb.						
252.0 - 255.0		ANDESITE: Dense, dark, contorted flow lines						
255.0		END HOLE H-2-80						



# DIAMOND DRILL RECORD

C.D.R. RESOURCES INC.

PROPERTY TOLMAN LAKE- NICOLA M.D HOLE NO. H-3-80 START 6 - Feb - 1980

CLAIM NO. SUNSHINE - 10 DEPTH BEARING DIP DEPTH BEARING DIP FINISH 9 - Feb - 1980

LATITUDE 10,316.87 53°E -70° DEPTH 210' (64.0m)

DEPARTURE 10,368.23 LOGGED G. BOGGARAM

ELEVATION 5060' H.Q DRILL CO. CONNORS

DEPTH FEET	METRES.	FORMATION	SAMPLE NO.	SAMPLE LENGHT	OZ. GOLD	OZ. SILVER	% COPPER
0 - 6	0 - 1.82	CASING					
6 - 44	1.82 - 13.41	<u>ANDESITE</u> : Meta (?) porphyry Dark green phenos, Moderate fracture, slightly magnetic(?) with epidote and Locally Hematite					
44 - 58	13.41 - 17.67	<u>PALE FLOW</u> (?) dense, buff c.A 50°-80°					
58 - 60	17.67 - 18.28	<u>GOUGE</u> :					
60 - 122.5	18.28 - 37.33	<u>ANDESITE</u> : Pale green, Brecciated, occ pyrite 69-70 fractures 50°-60°					
122.5 - 122.8	37.33 - 37.42	<u>Breccia Gouge</u> : chloritized or serpentinized					
122.8 - 154.5	37.42 - 47.09	<u>ANDESITE</u> : cracked, locally hematite in fractures 148-150 - core broken @ 150' c.A 50-60°					
154.5 - 176.3	47.09 - 53.73	<u>Breccia Gouge</u> :					
176.3 - 210	53.73 - 64.0	<u>Andesite</u> : moderate shatter 185-186 - occ pyrite + chalco 194-200 - core broken.					
		210' (64.0m) END OF HOLE					



# DIAMOND DRILL RECORD

C.D.R. RESOURCES INC.

PROPERTY TOLMAN LAKE - NICOLA M.D. HOLE NO. H-4-80

START 10 Feb-1980

CLAIM NO. SUNSHINE-10

DEPTH BEARING DIP DEPTH BEARING DIP

FINISH 12-Feb-1980

LATITUDE 10,366

S14°E -70°

DEPTH 251' (76.5m)

DEPARTURE 10,468

LOGGED G. BOGGARAM

ELEVATION 5089.4

H.Q.

DRILL CO. CONNORS

DEPTH FEET	METRES	FORMATION	SAMPLE NO.	SAMPLE LENGHT	OZ. GOLD	OZ. SILVER	% COPPER
0-6	0-1.82	CASING.					
6-165	1.82-50.29	ANDESITE : Spotted Meta(?) porphyry, moderate fracture, occ rusty, Locally Hematite, with epidote + Calcite, + Quartz.					
		10-12 - core broken, 42-43 - brecciated					
		70-74 - core broken, 85-86 - chloritized or Serpentinized					
		111-112 - fractures 50°-80°					
		158-159 - occ pyrite, galena, Zns? and Chalco(?)					
165-169	50.29-51.51	Flow Breccia(?): Buff, fine grain, occ Chalco, galena + Pyrite					
169-214	51.51-65.22	Breccia Gouge : crushed appearance(?)					
		173-177 - 1.5 Core lost					
		177-180 - 0.5 Core lost					
		180-182 - 0.5 Core lost					
		194-199 - 0.5 Core lost, occ galena + Zns(?)					
214-225	65.22-68.50	Flow(?) Lt pale Col, Siliceous, broken through out.					
		222-223 - occ galena(?)					
225-226	68.5-68.88	GOUGE :					
226-237.5	68.88-72.39	ANDESITE : Siliceous, brecciated, c.A 50°-80° ? broken					
		231-236 - 4.5 core lost					
237.5-240	72.39-73.15	BLACK CARBONACEOUS material, may be silt stone(?)					

# DIAMOND DRILL RECORD

C. D. R. RESOURCES INC.

PROPERTY TOLMAN LAKE - NICOLA M.D. HOLE NO. H-4-80 START 10-Feb-1980

CLAIM NO. SUNSHINE - 10 DEPTH BEARING DIP DEPTH BEARING DIP FINISH 12-Feb-1980

LATITUDE 10,366 S 24° E - 70° DEPTH 251' (76.5 m)

DEPARTURE 10,468 LOGGED G. BOGGARAM

ELEVATION 5089.4 DRILL CO. CONNORS

DEPTH FEET	METRES	FORMATION	SAMPLE NO.	SAMPLE LENGHT	OZ. GOLD	OZ. SILVER	% COPPER
240-242.5	73.15 - 73.91	<u>ANDESITE</u> : pale col. sileaceous					
242.5-244	73.91-74.37	<u>GOUGE</u> :					
244-247	74.37-75.28	<u>ANDESITE</u> : cracked breccia, sileaceous					
247-248	75.28-75.59	<u>Black carbonaceous material</u> , may be silt stone (?)					
248-251	75.59-76.50	<u>ANDESITE</u> : cracked breccia, pale green col.					
		251' (76.50 m) END OF HOLE					





# DIAMOND DRILL RECORD

C. D. R. RESOURCES INC.

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PROPERTY TOLMAN LAKE - NICOLA M.D. HOLE NO. H-5-80 START 13-Feb-1980  
 CLAIM NO. SUNSHINE-10 DEPTH BEARING DIP DEPTH BEARING DIP FINISH 16-Feb-1980  
 LATITUDE 10,372.26 S 30° E -55° DEPTH 210' (64.0 m)  
 DEPARTURE 10,577.49 LOGGED G. BOGGARAM  
 ELEVATION 5105.57 H.Q. DRILL CO. CONNORS.

DEPTH FEET	METRES.	FORMATION	SAMPLE NO.	SAMPLE LENGHT	OZ. GOLD	OZ. SILVER	% COPPER
0 - 6	0 - 1.82	<u>CASING.</u>					
6 - 124	1.82 - 37.8	<u>ANDESITE:</u> Spotted meta(?) porphyry. Dark green, pale phenos, moderate fracture, Sinuous epidote wisps + veinlets					
			25-30	- segregations of brown meta crystals with talc or serpentine			
			34-36	brecciated.			
			66-68	calcite veinlets + quartz.			
			76-77	fractures 50-60° @ 86.5 - 1" qtz vein			
			92-94	heavily sheared(?)			
			114-124	pyrite, galena, Zns(?) Chaleo.			
124 - 135.5	37.80 - 41.30	<u>ANDESITE:</u> Flow Breccia.	124 - 134	- core broken. occ pyrite.			
135.5 - 170	41.30 - 51.80	<u>Breccia Gouge:</u>	@ 153	- occ pyrite.			
170 - 198	51.80 - 60.43	<u>ANDESITE:</u> Cracked Breccia. - fractures Locally Hematite calcite + quartz veinlets. occ-pyrite.					
			172-174	- intermittent green and sub angular reddish fragments.			
			178-179	- pyrite, + chaleo(?) c.A 50°-80°			
198 - 206	60.43 - 62.78	<u>ANDESITE:</u> pale, buff	198	- chaleo in quartz veins			



C. D. R. TOLMAN LAKE

DIAMOND DRILL

SAMPLE REPORT

DATE MARCH 1980

SAMPLE NO.	HOLE	FROM	TO	FEET	METRES	%Pb	% Zn	% Cu.	Au.	oz. Ag
	H-5-80									
22245	-	114	119.5	5.5		0.04%	0.04%	<.01	-	0.34 oz.
46		119.5	125.0	5.5	PPM	30	148	36	-	0.1 PPM
22247	-	130	134	4.0	PPM	245	320	38	-	0.1 PPM.
48	-	134	136	2.0		0.10%	0.93%	116 <sup>PPM</sup>		0.6 PPM.
22249	-	154	160	6.0		0.16	1.43	-	-	0.6 PPM.
22241	-	160	165	5.0		0.02	0.56	200 PPM		0.2 "
42	-	165	170	5.0		0.02	0.53	130 PPM		0.1 "
22243	-	178	183	5.0		0.02%	0.44%	170 PPM		0.4 PPM.
22244	-	198	203	5.0		PPM	PPM	PPM	-	PPM
						26	820	900		0.1

# DIAMOND DRILL RECORD

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C. D. R. RESOURCES INC.

PROPERTY TOLMAN LAKE - NICOLA M.D. HOLE NO. H-6-80 START 17-Feb-1980

CLAIM NO. SUNSHINE-10 DEPTH BEARING DIP DEPTH BEARING DIP FINISH 19-Feb-1980

LATITUDE 10,403.96 S 30° E -60° DEPTH 185' (56.38m)

DEPARTURE 10,620.38 LOGGED G. BOGGARAM

ELEVATION 5109.87 H.Q. DRILL CO. CONNORS

DEPTH FEET	METRES	FORMATION	SAMPLE NO.	SAMPLE LENGHT	OZ. GOLD	OZ. SILVER	% COPPER
0-4	0-1.21	CASING					
4-42	1.21-12.80	ANDESITE: Spotted meta(?) porphyry, pale-phenos, sinuous epidote moderate fractures					
				18-20 fractures 50°-60°			
				21-23.5 - occ pyrite			
				39-40 - core broken.			
42-43	12.80-13.1	Flow (?) siliceous, brecciated (?)					
43-130	13.1-39.62	ANDESITE: pale green, porphyritic					
				50-54 - core broken, vuggy.			
				58-59 - brecciated			
				60-61 - occ pyrite in calcite stringe			
				82-87 - high alteration, bleached (?)			
				@ 98 - occ pyrite in calcite vein late.			
				98-99 - c.a 50°-80°			
				102' - 1" mud (?)			
				107, 111-112 - pyrite in calcite vein late.			
130-157	39.62-47.85	ANDESITE: crackled or shattered zone (?)					
				141-143 - core broken			
				145-150 - 2.5' core lost			
				151-154 - core broken, occ pyrite			
				156' - 1" mud ?			

# DIAMOND DRILL RECORD

C. D. R. RESOURCES INC.

PROPERTY TOLMAN LAKE - NICOLA M.D. HOLE NO. H-6-80 START 17-Feb-1980

CLAIM NO. SUNSHINE-10 DEPTH BEARING DIP DEPTH BEARING DIP FINISH 19-Feb-1980

LATITUDE 10,403.96 S 30°E -60° DEPTH 185' (56.38 m)

DEPARTURE 10,620.87 LOGGED G. BOGGARAM

ELEVATION 5109.87 H.Q. DRILL CO. CONNORS

DEPTH FEET	FORMATION	SAMPLE NO.	SAMPLE LENGTH	OZ. GOLD	OZ. SILVER	% COPPER
157-185	47.85-56.38 <u>ANDESITE: Siliceous Breccia</u> , fractured through out.					
			161-163 - core lost			
			165-168 - fine blebs of Chalco, galena, Zns, Pyrit			
			177 - fractures 50°			
			181-185 - core shattered heavily			
	185' (56.38 m) END OF HOLE.					

C.D.R. RESOURCES, INC. TOLMAN LAKE PROJECT

DIAMOND DRILL

SAMPLE REPORT

DATE MARCH 1980

MPLE NO.	HOLE	FROM	TO	FEET	METRES	% Pb	% Zn	% Cu.	Au.	oz. Ag
96181	H-6-80	156	161	5'	47.5	0.05	0.12		20.003	0.01
96182	— " —	163	165.5	2.5		<del>0.25</del> 0.43	0.43		20.003	0.01
96183	— " —	165.5	168	2.5		2.58	8.95	0.63	20.003	0.48
96184	— " —	168	173	5'		0.23	2.70	0.11	20.003	0.08
96185	— " —	173	178	5'	-54.2	0.10	0.38	0.01		0.02
96186	TRENCH #2 ZONE, N.E. WALL	LOST ?		SURFACE SAMPLE						
96187	TRENCH #2 ZONE, S.W. WALL					0.06	0.52			
		165.5	173.0	7.5'		1.01	4.78	0.28		0.21
		(50.44m - 52.73 : 2.28 m)								

# DIAMOND DRILL RECORD

C. D. R. RESOURCES INC.

Page 1/2

PROPERTY TOLMAN LAKE - NICOLA M.D. HOLE NO. H-7-80 START 19-Feb-1980

CLAIM NO. SUNSHINE-10 DEPTH BEARING DIP DEPTH BEARING DIP FINISH 21-Feb-1980

LATITUDE 10,403.0 S 30° E - 45° DEPTH 189' (57.6 m)

DEPARTURE 10,620.0 LOGGED G. BOGGARAM

ELEVATION 5110.0 H.Q. DRILL CO. CONNORS

DEPTH FEET	METRES	FORMATION	SAMPLE NO.	SAMPLE LENGHT	OZ. GOLD	OZ. SILVER	% COPPER
0-10	0-3.04	CASING					
10-60	3.04-18.28	<u>ANDESITE</u> : Spotted meta(?) porphyry, pale-phenas, moderate fracture, sinuous epidote wisps + veinlets. 10-14 - core broken @ 15' - fracture 50°-60°, Pyrite 21-28 - core broken, rusty due to hematite @ 38 - occ Pyrite, @ 58 - Pyrite.					
60-70	18.28-21.33	<u>Flow(?) ANDESITE</u> : Pale, buff, f.g.					
70-120	21.33-36.57	<u>ANDESITE</u> : pale green to buff moderate fractures with epidote and chlorite. 74-76 - core broken, @ 81' - 1" mud(?) 83-84 - talc or serpentine in fractures 92-93 - Sub angular reddish fragments 97' - c. A 50°-80° 110-111 - Pyrite in fractures.					
120-134	36.57-40.84	<u>ANDESITE</u> : Siliceous, cracked through out, brecciated.					
134-135.5	40.84-41.30	<u>Flow(?) ANDESITE</u> :					
135.5-189	41.30-57.60	<u>Cracked ANDESITE</u> : BX @ 135.5 - 4" Gouge 143-144 - BX Gouge(?)					





C.D.R. RESOURCES, INC. TOLMAN LAKE PROJECT

DIAMOND DRILL

SAMPLE REPORT

DATE MARCH 1980

MPLE NO.	HOLE	FROM	TO	FEET	METRES	%Pb	% Zn	% Cu.	Au.	oz. Ag
96188	H-7-80	157.5	180	2.5		1.17	0.64	0.02	2.003	0.06
96189	— " —	160	165	5		0.06	0.11	2.01	2.003	0.01
96190	— " —	165	167	2		0.78	6.52	0.35	2.003	0.12
96191	— " —	167	170	3		0.03	2.05	0.05	2.003	0.01
96192	— " —	<del>170</del> 152	157.5	5.5		0.12	0.18	-	-	0.01
96193	— " —	170	172	2		0.68	5.83	0.24	2.003	0.14
96194	— " —	172	176	4		0.02	0.22	-	-	0.01
		157.5	172.0	14.5		0.43	2.27	0.10		.05

# DIAMOND DRILL RECORD

C. D. R. RESOURCES INC.

PROPERTY TOLMAN LAKE - NICOLA M.D. HOLE NO. H-8-80 START 22-Feb-1980  
 CLAIM NO. SUNSHINE - 10 DEPTH BEARING DIP DEPTH BEARING DIP FINISH 24-Feb-1980  
 LATITUDE 10,420.0 S 30° E - 45° DEPTH 175'  
 DEPARTURE 10,694.0 LOGGED G. BOGGARAM  
 ELEVATION 5106.6 H.Q. DRILL CO. CONNORS

DEPTH FEET	METRES	FORMATION	SAMPLE NO.	SAMPLE LENGHT	OZ. GOLD	OZ. SILVER	% COPPER
0-17	0-5.18	<u>CASING</u>					
17-103	5.18-31.40	<u>ANDESITE</u> : Spotted meta(?) porphyry, pale phenes, sinuous epidote occ rusty - loc hematite, moderate fracture					
				17-20 - 1' core lost			
				@ 50 - 3" mud (?)			
				62-67 - siliceous, broken			
				71 - fracture 50°-60°			
				94 - c. A 50°-80°			
				101 - BX - Gauge(?)			
103-132	31.40-40.23	<u>ANDESITE</u> : cracked, shattered, siliceous					
				118-119 crushed appearance?			
				120-132 - BX, Gauge?			
132-138	40.23-42.0	<u>BX GOUGE</u> :					
138-175	42.0-53.34	<u>ANDESITE</u> : BX, cracked					
				141-152 - pyrite, galena, Zns(?)			
				144-146 - 6" core lost,			
				146-150 - 3.5 core lost			
				152-158 - Pyrite, galena, Zns			
				@ 169 - 3" mud(?)			
		175' (53.34 m) END OF HOLE.					



# DIAMOND DRILL RECORD

C.D.R. RESOURCES INC.

Page 1/2

PROPERTY TOLMAN LAKE - NICOLA M.D. HOLE NO. H-9-80 START 25-Feb-1980

CLAIM NO. SUNSHINE-10 DEPTH BEARING DIP DEPTH BEARING DIP FINISH 27-Feb-1980

LATITUDE 10,420.0 BEARING S55°E DIP -45° DEPTH 180' (54.86m)

DEPARTURE 10.694.0 LOGGED G. BOGGARAM

ELEVATION 5106.6 H.Q. DRILL CO. CONNORS

DEPTH FEET	METRES	FORMATION	SAMPLE NO.	SAMPLE LENGTH	OZ. GOLD	OZ. SILVER	% COPPER
0-16	0-4.87	CASING					
16-55	4.87-16.76	<u>ANDESITE</u> : Spotted meta(?) porphyry, pale-phenos, moderate fracture sinuous epidote wisps + veinlets					
			25	C.A	50°-80°		
			36, 40-44	Core broken			
			@ 44	calcite + quartz veinlets			
55-60.5	16.76-18.44	<u>Flow(?)</u> pale buff, fine grain					
60.5-88	18.44-26.82	<u>ANDESITE</u> : 63-67 - core broken					
			68	fracture	50°-60°		
			74	C.A	50°-80°?		
			88	Calcite + Quartz	veinlets		
88-95.5	26.82-29.1	<u>GOUGE</u> : BX					
95.5-97.5	29.1-29.71	<u>Flow(?)</u> pale grey to buff					
97.5-99	29.71-30.1	<u>GOUGE</u> :					
99-125	30.1-38.1	<u>ANDESITE</u> : Siliceous, shattered					
			105	C.A	50°-80°		
			105-106	few Calcite + qtz	veinlets		
			115-116	Sub angular reddish	fragments		
125-145	38.1-44.2	<u>ANDESITE</u> : Brecciated, siliceous					
			@ 129	Pyrite, galena, Zns			

# DIAMOND DRILL RECORD

C. D. R. RESOURCES INC.

PROPERTY TOLMAN LAKE - NICOLA M.D. HOLE NO. H-9-80

START 25. Feb-1980

CLAIM NO. SUNSHINE-10

DEPTH

BEARING

DIP

DEPTH

BEARING

DIP

FINISH 27. Feb. 1980

LATITUDE 10,420.0

S55°E -45°

DEPTH 180' (54.86 m)

DEPARTURE 10,694

LOGGED G. BOGGARAM

ELEVATION 5106.6

H.Q

DRILL CO. CONNORS

DEPTH FEET	FORMATION	SAMPLE NO.	SAMPLE LENGHT	OZ. GOLD	OZ. SILVER	% COPPER	
		132-137	Pyrite with Black Carbonaceous silt stones (?) @ 137 - 3" mud (?)				
		137-140	1' core lost				
145-147	44.2-44.8	GOUGE :					
147-180	44.8-54.86	ANDESITE : Cracked BX					
		145-150	2' core lost				
		164-166	.9" core lost				
		166-170	1.5' core lost				
		170-175	3' core lost				
		175-180	3.5' core lost.				
		180' (54.86m) END OF HOLE.					



# DIAMOND DRILL RECORD

Page 1/2

C. D. R. RESOURCES INC.

PROPERTY TOLMAN LAKE - NICOLA M.D HOLE NO. H-10-80 START 28-Feb-1980

CLAIM NO. SUNSHINE-16 DEPTH BEARING DIP DEPTH BEARING DIP FINISH 29-Feb-1980

LATITUDE L 72 N S 62° E -45° DEPTH 150' (45.72 m)

DEPARTURE 0+45° SE LOGGED G. BOGGARAM

ELEVATION 5150 H.Q DRILL CO. CONNORS.

DEPTH FEET	METRES	FORMATION	SAMPLE NO.	SAMPLE LENGHT	OZ. GOLD	OZ. SILVER	% COPPER
0-12	0-3.65	CASING					
12-75.5	3.65-23.0	<u>ANDESITE</u> : Spotted meta (?) porphyry, Lt brown to buff moderate fractures. Locally hematite					
				23-27 - 1' core lost, fracture 50°			
				33 - Serpentine or talc in fractures			
				47 - Serpentine or talc in fractures			
				50-55 - 1.5 core lost			
				55-60 - 4.0 core lost			
				60-63 - 1.5 core lost			
				63-65 1.0 core lost			
				69-71 - Serpentine or talc in fracture			
				71-75.5 - 2.0 core lost			
75.5-78	23.0-23.77	<u>GOUGE</u> :					
78-92	23.77-28.04	<u>ANDESITE</u> : crackled, shattered					
				78-81 - .6" core lost			
				81-83 - 1.0 core lost			
				83-85 - 1.0 core lost.			
92-103.5	28.04-31.54	<u>Siliceous Breccia zone</u> : mineralized through out with, Pb, Zn, Cp, Py.					
				92-97 - 3' core lost - Cp, Pb, Zn, Py			
				97-100 - 2.3 core lost - Cp, Pb, Zn, Py.			







# DIAMOND DRILL RECORD

C. D. R. RESOURCES INC.

PROPERTY TOLMAN LAKE- NICOLA M.D HOLE NO. H-11-80 START 1- March 1980

CLAIM NO. SUNSHINE - 16 DEPTH BEARING DIP DEPTH BEARING DIP FINISH 2- March - 1980

LATITUDE L 72 N BEARING S 62° E DIP - 60° DEPTH 130' (39.62m)

DEPARTURE 0 + 450' SE LOGGED G. BOGGARAM

ELEVATION 5150 H. Q. DRILL CO. CONNORS.

DEPTH FEET	METRES	FORMATION	SAMPLE NO.	SAMPLE LENGHT	OZ. GOLD	OZ. SILVER	% COPPER
0 - 10	0 - 3.04	CASING					
10 - 71	3.04 - 21.64	ANDESITE: Pale green to buff, moderate fracture, with epidote and chlorite, scattered calcite + Quartz veinlets. Locally Hematite. 10-15 - 1' core lost, From 15-55 intermettant green and sub angular <sup>reddish</sup> fragments through out. @ 55' - 3" mud(?) @ 64.5 - 3" mud(?)					
71 - <del>96.5</del>	21.64 - 29.41	ANDESITE: BX, may be crushed zone? @ 87' - 3" mud, 89 - 2" mud 91' - fractures 60°					
96.5 - 108	29.41 - 32.91	Breccia Zone: mineralized through out, siliceous, with Pb, Zns, cp. 103.5 - 106 highly mineralized, Pb, Zns, cp.					
108 - 109	32.91 - 33.22	GOUGE:					
109 - 125	33.22 - 38.10	ANDESITE: Siliceous	109-110 - Pyrite, galena in qtz veins 113 - Pyrite, galena + Zns 119.5 - occ galena, Pyrite 122 - Core shattered. C.A. 50°-80°				
125 - 130	38.1 - 39.62	ANDESITE Flow? : Pale, buff. f.g.					
		130' (39.62 m) END OF HOLE.					



# DIAMOND DRILL RECORD

C. D. R. RESOURCES INC.

Page 1/2

PROPERTY TOLMAN LAKE - NICOLA M.D. HOLE NO. H-12-80 START 2-March 1980

CLAIM NO. SUNSHINE - 16 DEPTH BEARING DIP DEPTH BEARING DIP FINISH 3-March 1980

LATITUDE L 72 N S 62° E - 80° DEPTH 130'

DEPARTURE 0 + 450' SE LOGGED G. BOGGARAM

ELEVATION 5150 H.Q. DRILL CO. CONNORS

DEPTH FEET	METRES	FORMATION	SAMPLE NO.	SAMPLE LENGHT	OZ. GOLD	OZ. SILVER	% COPPER
0 - 8	0 - 2.43	CASING					
8 - 65.5	2.43 - 19.96	ANDESITE: Pale green to buff, moderate fracture, sinuous epidote wisps + veinlets, Loc Hematite.					
		8-10 - .6" core lost.					
		10-13 - 2' core lost, fracture - 80°(?)					
		20-30 - core with intermittent green and reddish angular fragments					
		27 - C.A 50°-80°					
		64-65 - epidote and qtz veinlets.					
65.5 - 66	19.96 - 20.11	GOUGE: (?)					
66 - 93.5	20.11 - 28.49	ANDESITE: Shattered or crackled					
		72-74 - 1.4 core lost					
		74-78 - Shattered badly					
		@ 82' - fracture 60°					
93.5 - 96	28.49 - 29.26	Flow(?) Pale buff to grey					
		C.A 50°-80°					
96 - 107	29.26 - 32.61	ANDESITE: fine grain, shattered					
		103-107 - may be a Fault Zone?					
107 - 123	32.61 - 37.49	Mineralized Breccia: Siliceous, crackled, Py, Pb, Zns, chalc.					
		112-120 - fairly mineralized with Pb, Zns, Cu, Py in fractures.					

# DIAMOND DRILL RECORD

C.D.R. RESOURCES INC.

PROPERTY TOLMAN LAKE - NICOLA M.D. HOLE NO. H-12-80 START 2 - March 1980

CLAIM NO. SUNSHINE - 16 DEPTH BEARING DIP DEPTH BEARING DIP FINISH 3 - March 1980

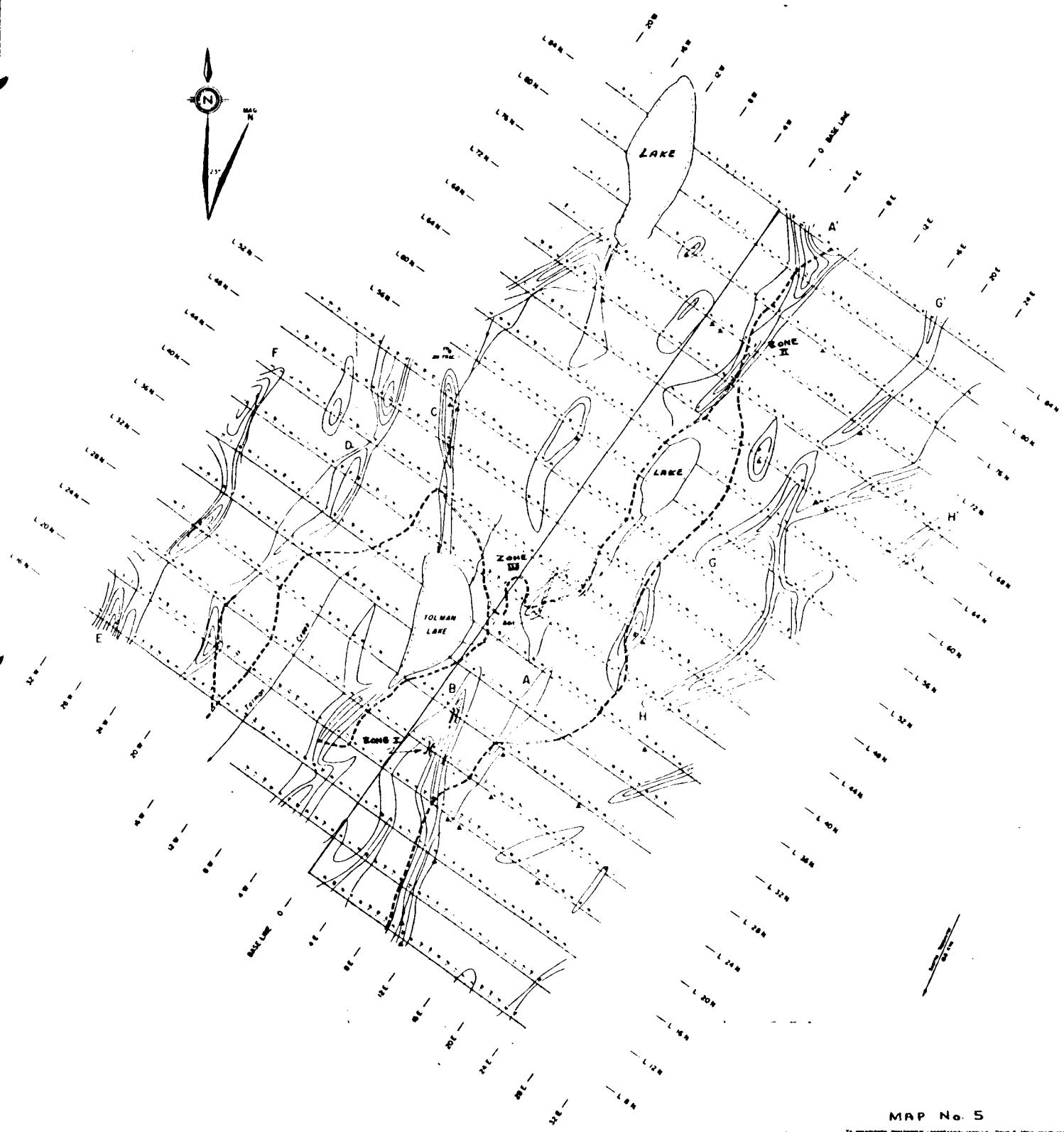
LATITUDE L 72 N BEARING S 62° E DIP - 80° DEPTH 130' (39.62 m)

DEPARTURE 0 + 45° SE LOGGED G. BOGGARAM

ELEVATION 5150 H.Q. DRILL CO. CONNORS

DEPTH FEET	METRES .	FORMATION	SAMPLE NO.	SAMPLE LENGHT	OZ. GOLD	OZ. SILVER	% COPPER
123-130	37.49-39.62	ANDESITE : 120-123 - minor Pyrite, galena, Zns and Cu. fractures 50-60° may be Flow(?) dense, pale grey to buff. @ 125' - minor galena in qtz veins @ 126' - fractures 80°(?)					
		130' (39.62 m) END OF HOLE.					





MAP No. 5

To accompany geological prospecting report No. 100  
 GEOTRONICS SURVEYS LTD  
 RUSKIN DEVELOPMENTS LTD  
 TOLMAN LAKE PROPERTY  
 TOLMAN LAKE, NICOLA B.C.  
**VLF-EM SURVEY**  
**FRASER FILTER**  
**DATA & CONTOURS**

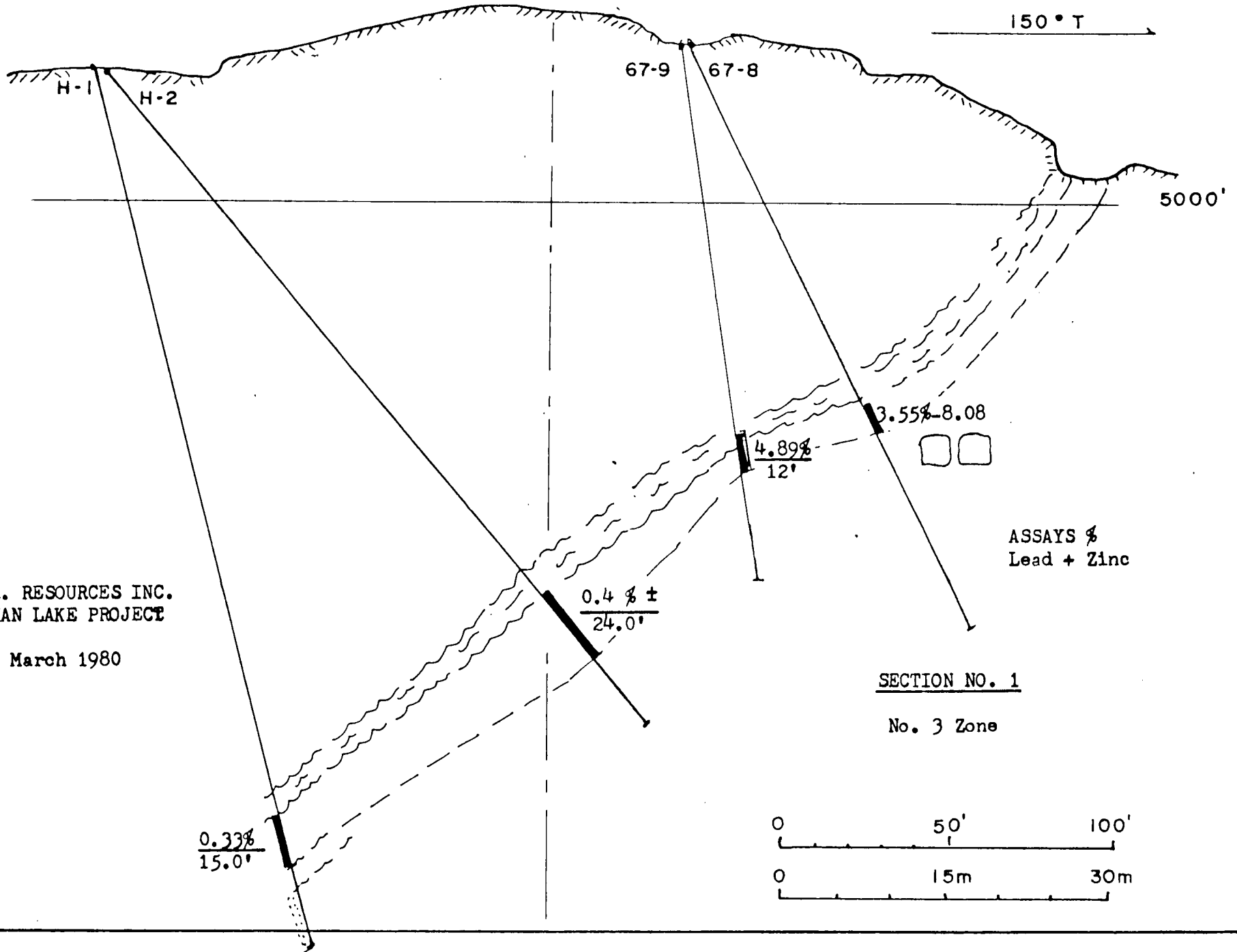
Drawn by	DATE	JOB NO.	SCALE	PLANS
ALTOP	SEP 67	72-10	1:1000	4



A P P E N D I X 4

Drill Sections 1-6

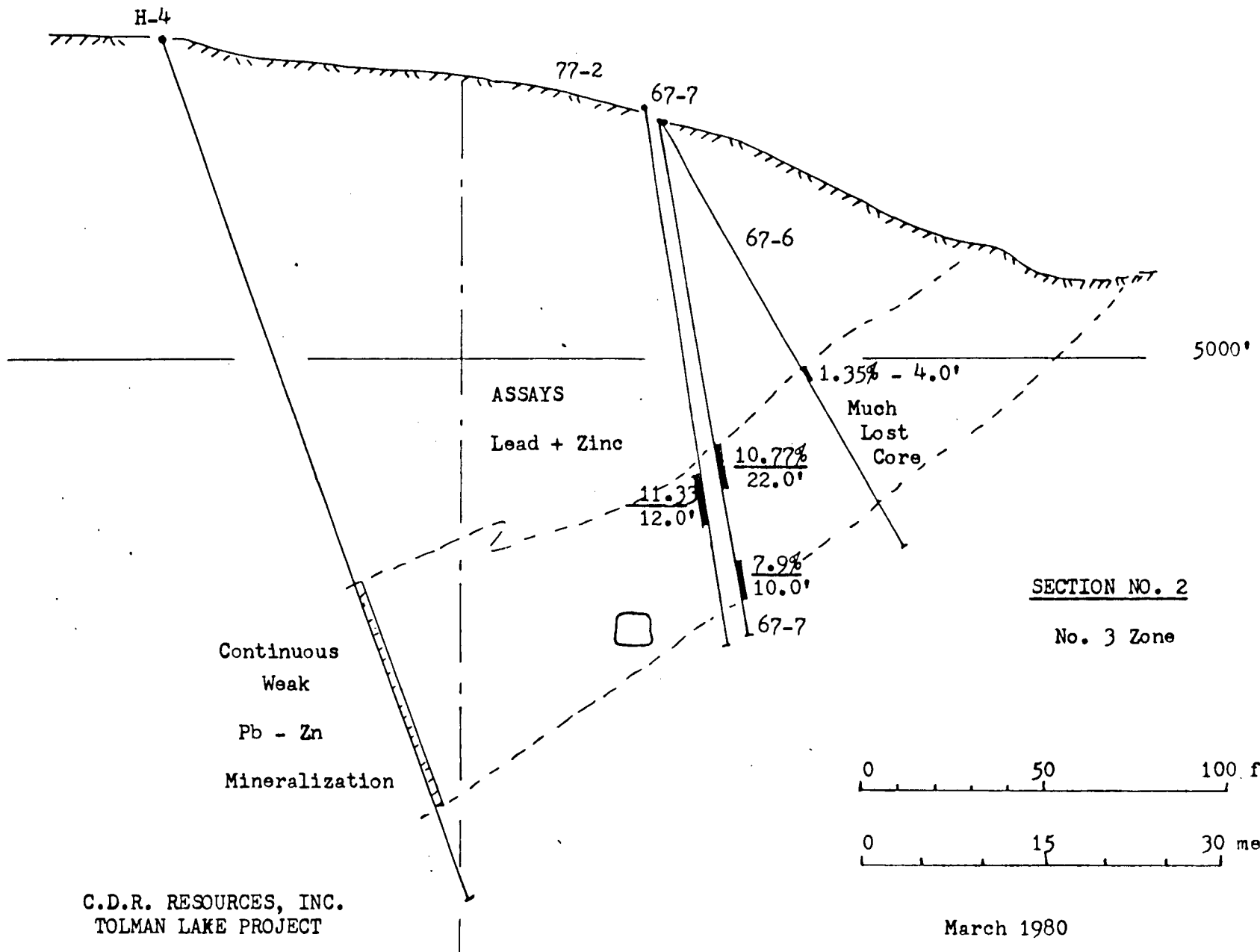
150° T



C.D.R. RESOURCES INC.  
TOLMAN LAKE PROJECT

March 1980

166° T



Continuous  
Weak  
Pb - Zn  
Mineralization

ASSAYS  
Lead + Zinc

1.35% - 4.0'  
Much  
Lost  
Core

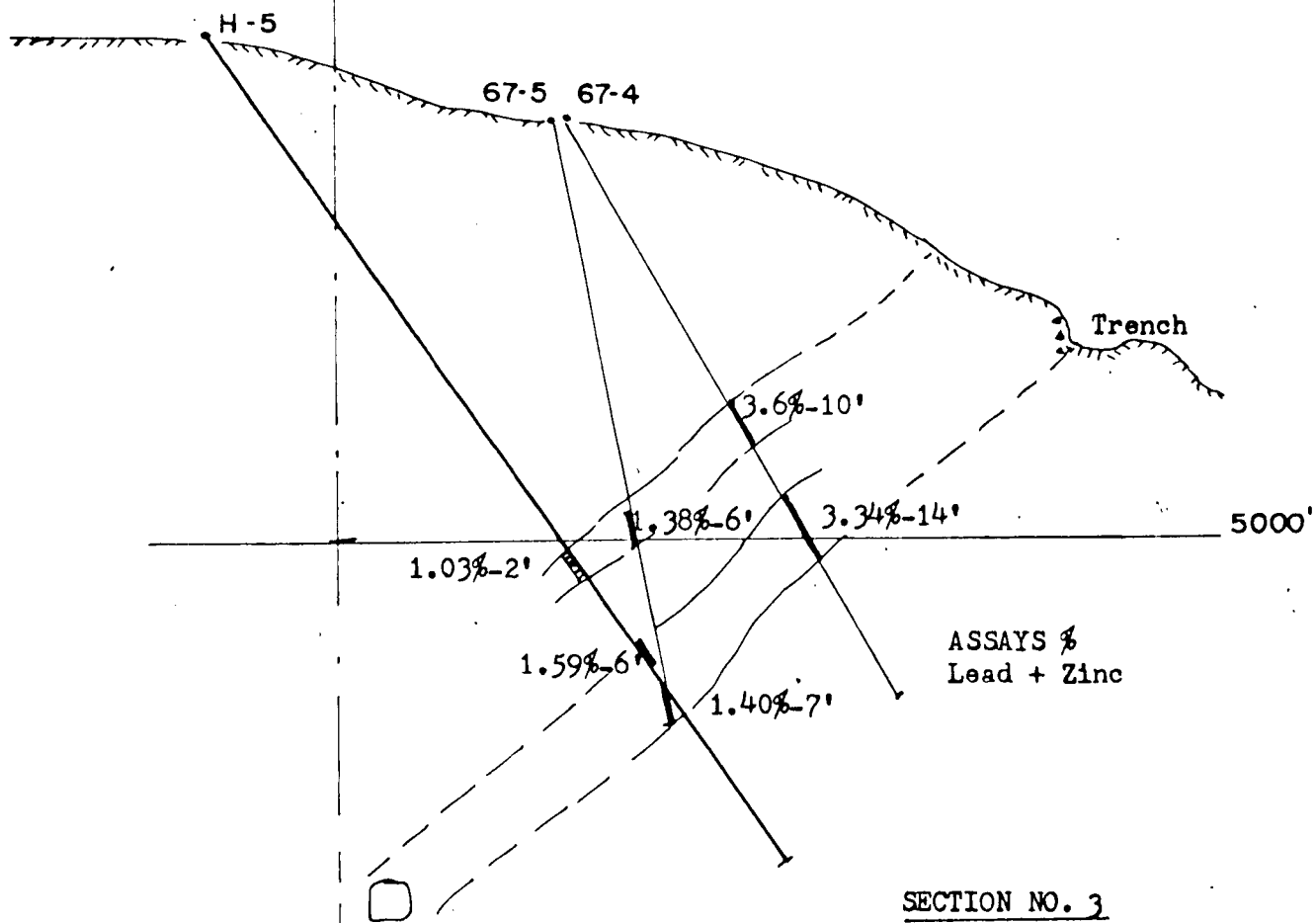
SECTION NO. 2

No. 3 Zone

0 50 100 feet

0 15 30 metres

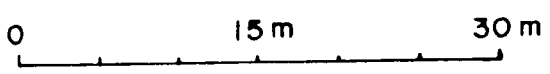
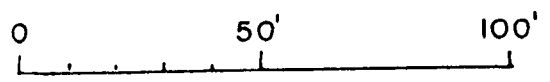
150° T



ASSAYS %  
Lead + Zinc

SECTION NO. 3

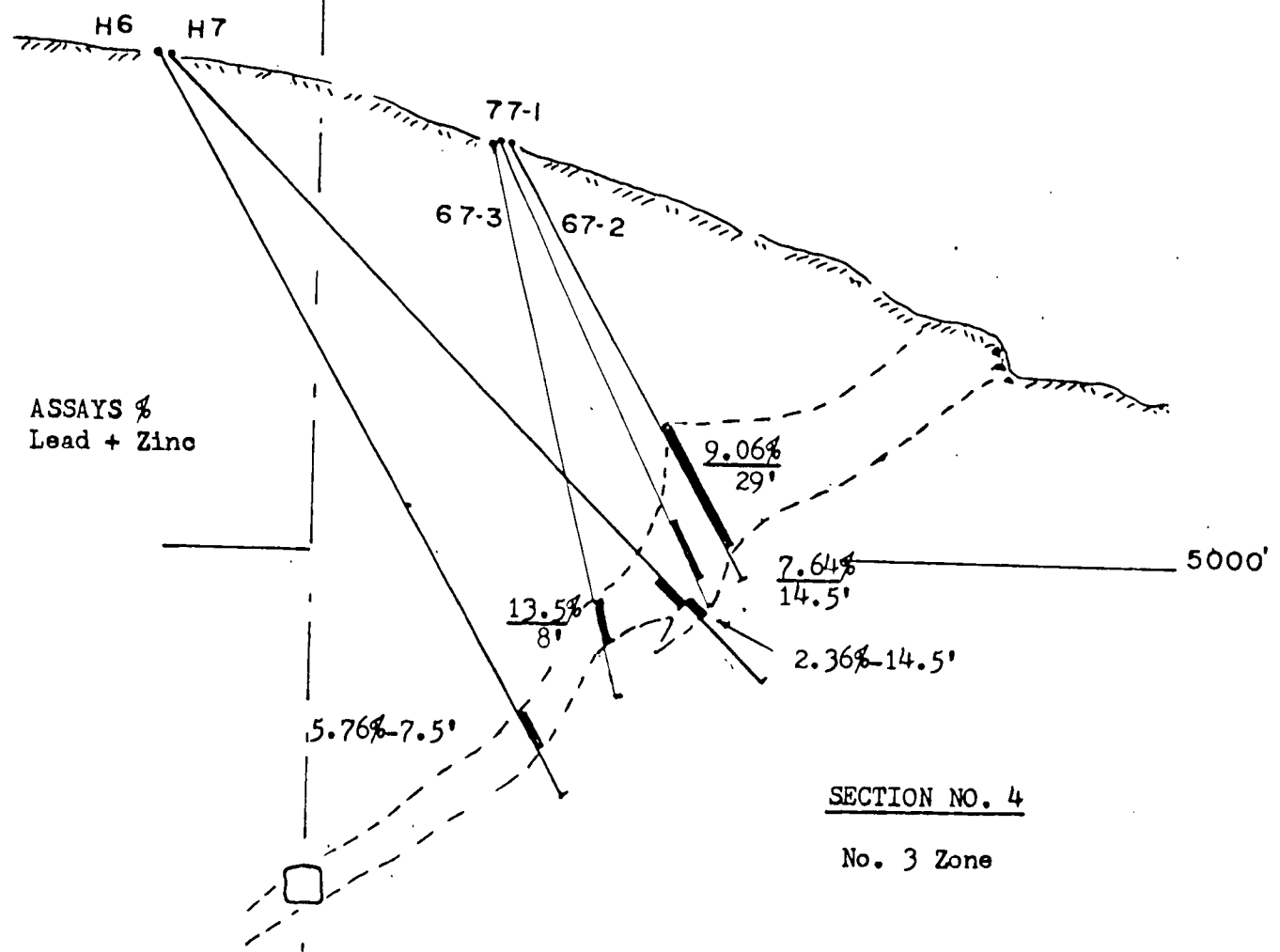
No. 3 Zone



March 1980

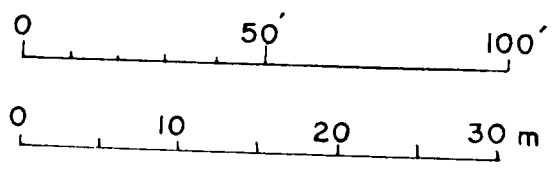
C.D.R. RESOURCES, INC.  
TOLMAN LAKE PROJECT

150° T

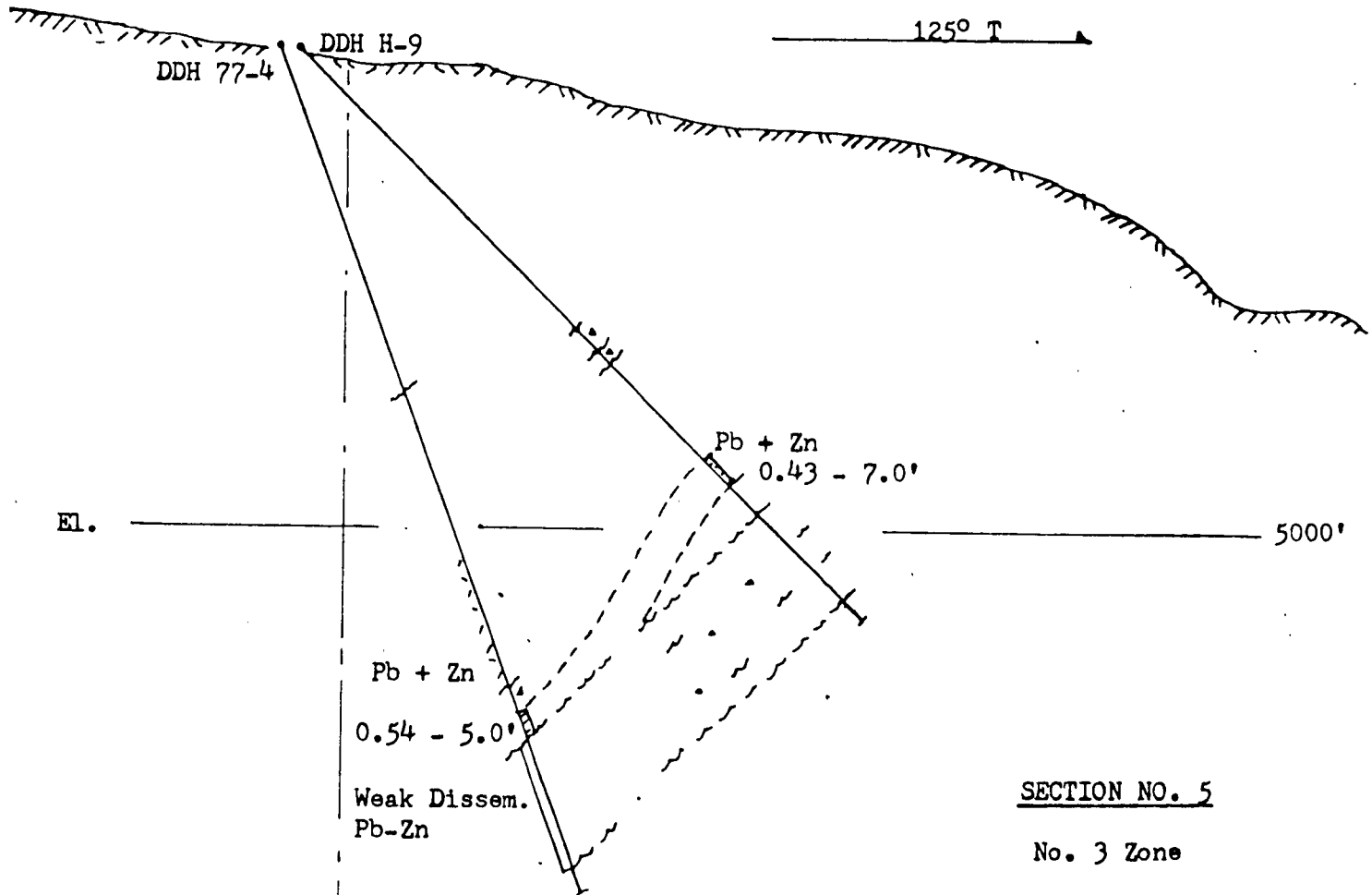


SECTION NO. 4

No. 3 Zone



C.D.R. RESOURCES, INC.  
TOLMAN LAKE PROJECT  
March 1980



C.D.R. RESOURCES, INC.  
TOLMAN LAKE PROJECT

March, 1980

0 50 100 Feet

0 15 30 Metres

Elevation 5150'  
(APPROX)

TRENCH #2

H-10

118° T

SECTION OF DIAMOND DRILL HOLES

NO. 2 ZONE

H-11

C.D.R. RESOURCES INC.  
TOLMAN LAKE PROJECT

H-12

March 1980

Pb	Zn	Cu
0.04%	1.04%	0.09%

16.5'

Pb	Zn	Cu
0.37	8.54%	0.30%

7.5'

Pb	Zn	Cu
0.20	6.25	0.21%

8.0'

130'

150'

130'

SECTION 6

0 10 20 30 40 50 feet

0 5 10 15 metres

L.S. Frankelms - March 1980

A P P E N D I X 5

Assay Certificates









# CHEMEX LABS LTD.

217 BROOKBANK AVE  
 NORTH VANCOUVER, B.C.  
 CANADA V7J 2C1 984-0221  
 TELEPHONE  
 AREA CODE 604  
 TELEX 043 52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ASSAY

CERTIFICATE NO. 67536  
 INVOICE NO. 34979  
 RECEIVED Feb. 22/80  
 ANALYSED Feb. 29/80 ✓

TO: C.D.R. Resources  
 c/o Mr. Trenholme  
 6746 Margeurite St.  
 ATTN: Vancouver, B.C.

SAMPLE NO. :	% Cu	% Pb	% Zn	oz/ton Ag	oz/ton Au
96181		0.05	0.12	0.01	< 0.003
96182		0.25	0.43	0.01	< 0.003
96183	0.63	2.58	8.95	0.48	< 0.003
96184	0.11	0.23	2.70	0.08	< 0.003
96185	0.01	0.10	0.38	0.02	
<del>96187</del> 96186(?)		0.06	0.52	0.02	
96188	0.02	1.17	0.64	0.06	< 0.003
96189	< 0.01	0.06	0.11	0.01	< 0.003
96190	0.35	0.78	6.52	0.12	< 0.003
96191	0.05	0.03	2.05	0.01	< 0.003
96192		0.12	0.18	0.01	
96193	0.24	0.68	5.83	0.14	< 0.003
96194		0.02	0.22	0.01	



MEMBER  
 CANADIAN TESTING  
 ASSOCIATION

*B. L. Swaites*

REGISTERED ASSAYER, PROVINCE OF BRITISH COLUMBIA











# CHEMEX LABS LTD.

212 BROOKSBANK AVE.  
NORTH VANCOUVER, B.C.  
CANADA V7J2C1  
TELEPHONE: 984-0221  
AREA CODE: 604  
TELEX: 04-352597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 52279  
INVOICE NO. 35097  
RECEIVED Mar. 11/80  
ANALYSED Mar. 14/80

TO: C.D.R. Resources  
6746 Margeurite St.  
Vancouver, B.C.

ATTN: Mr. Trenholme

ROCKS

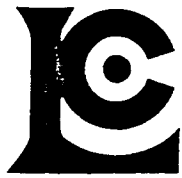
SAMPLE NO. :	PPM	PPM	PPM
	Pb	Zn	Ag
80308	190	3900	0.2
80309	76	1350	0.1
80310	52	>4000	0.6
80311	104	260	0.1
80312	1900	>4000	1.2
80313	390	3150	0.6
80314	190	3050	0.1
80315	2200	>4000	1.6
80316	515	346	0.1
80317	445	360	0.1
80318	1200	1800	0.2
80319	3500	2800	0.1
80320	30	130	0.1
80321	110	755	0.1



MEMBER  
CANADIAN TESTING  
ASSOCIATION

CERTIFIED BY: *Hart Biddle*





# CHEMEX LABS LTD.

212 BROOKSBANK AVE  
 NORTH VANCOUVER, B.C.  
 CANADA V7J 2C1 984-0221  
 TELEPHONE  
 AREA CODE 604  
 TELEX 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ASSAY

CERTIFICATE NO. 67596  
 INVOICE NO. 35122  
 RECEIVED Mar. 06/80  
 ANALYSED Mar. 19/80

TO: C.D.R. Resources  
 6746 Margeurite St.  
 Vancouver, B.C.  
 V6P 5E9  
 ATTN: Mr. L.S. Trenholme

SAMPLE NO. :	%	%	%	oz/ton	oz/ton
	Cu	Pb	Zn	Ag	Au
80301	<0.01	<0.01	0.02	0.01	
80302	0.14	0.03	1.04	0.03	
80303	0.12	0.10	1.74	0.04	<0.003
80304	0.03	0.02	0.15	0.01	<0.003
80305	0.03	0.02	1.08	0.02	<0.003
80306	<0.01	0.01	0.04	0.01	<0.003
80307	<0.01	0.04	0.03	0.02	<0.003
80322	0.06	0.09	1.02	0.03	
80323	0.20	0.17	4.26	0.10	<0.003
80324	0.50	0.78	17.1	0.28	<0.003
80325		0.02	0.22	0.02	
80326	0.07	0.03	0.25	0.01	<0.003
80327	0.15	0.02	5.54	0.08	<0.003
80328	0.31	0.51	7.44	0.20	<0.003
80329		<0.01	0.06	0.01	
96167		0.18	0.61	0.02	
96168		0.06	0.24	0.01	
96169		0.01	0.02	0.01	
96195	<0.01	0.17	0.87	0.03	
96196	0.05	0.12	2.26	0.02	
96197	0.01	0.20	0.74	0.02	
96198	0.01	0.04	0.18	0.01	



MEMBER  
 CANADIAN TESTING  
 ASSOCIATION

*San Amador*

REGISTERED ASSAYER, PROVINCE OF BRITISH COLUMBIA





# CHEMEX LABS LTD.

212 BROOKSBANK AVE.  
NORTH VANCOUVER, B C  
CANADA V7J2C1  
TELEPHONE: 984-0221  
AREA CODE: 604  
TELEX: 04-352597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 52199

TO: C.D.R. Resources  
6746 Margeurite St.  
Vancouver, B.C.  
V6P 5E9

INVOICE NO. 35614

ROCKS

RECEIVED Feb. 22/80

ATTN: Mr. Trenholme

ANALYSED May 1/80

SAMPLE NO. :	PPM	PPM	PPM	PPM
	Cu	Pb	Zn	Ag
22238	84	690	2300	0.1
39	32	225	1050	0.1
40	48	310	830	0.1
41 A	200	114	>4000	0.2
42	130	66	>4000	0.1
43	170	94	>4000	0.4
48	116	860	>4000	0.6
22349 A		1300	>4000	0.6

Also on Assay #67570



MEMBER  
CANADIAN TESTING  
ASSOCIATION

CERTIFIED BY: *Hart Biddle*

