

PERCUSSION DRILLING AND  
PHYSICAL WORK  
PERFORMED ON THE

MARY-O, CA 4, CA 2 and MARC CLAIM GROUPS  
June 19 to November 20, 1979

CARMI MOLYBDENUM PROPERTY  
GREENWOOD MINING DIVISION  
CARMI, B.C.

N.T.S. 82 E/11E, 82 E/6E

Latitude 49°31' N.  
Longitude 119°09' W.

Claims

Mary-O Group	CA 4 Group	CA 2 Group	MARC Group
Mary-O #8, 28-31	CA 4	CA 2	MARC 1-24
CAPCO 56-59, 61-63, 68-71	CA 1	CA 10	CA 6
CA 5	MY 8		
CA 7	MY 29-30		

Owners

Kennco Explorations (Western) Limited  
Union Oil Company of Canada Limited

Operator

Union Oil Company of Canada Limited

by  
Robert M. Falls, M.Sc.  
Minerals Department  
Union Oil Company of Canada Limited  
March, 1980

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT

7900  
NO.

part 1 of 2

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INTRODUCTION

Thirty-one vertical percussion drill holes, totalling 2925 m (9595 ft.), were drilled by Union Oil Company of Canada Limited between August 11 and November 20, 1979 on claims forming part of the Carmi Molybdenum Property which is located northwest of Carmi, B.C. The survey was conducted in order to test geochemical and/or induced polarization anomalies and to test for possible extensions to known zones of mineralization as defined through previous diamond and percussion drilling.

Access roads for the drill survey were constructed and maintained during the period from June 19 to November 20, 1979 utilizing one D8K and one TD20C bulldozer. Some environmental reclamation (ie. tree slashing and seeding) were also carried out.

Molybdenite is the main economic mineral on the property and it occurs as disseminated mineralization principally within several breccia zones. These zones are enclosed within diorite and quartz diorite of Jurassic to Cretaceous age which are part of the regional Nelson Batholith. MoS<sub>2</sub> concentrations are indicative of a low grade, large tonnage "porphyry-type" deposit.

Although assay results from the indicated 1979 drill holes are generally disappointing and not indicative of any significant new zones of mineralization, most geochemical and/or induced polarization targets were tested and the program did serve to better delineate existing mineralized zones.

LOCATION, PHYSIOGRAPHY AND ACCESS

The Carmi Molybdenum Property is located within the Okanagan Highlands at Carmi, B.C. which is situated approximately 38 km (23.6 miles) east of Penticton and 10 km (6.2 miles) north-northwest of Beaverdell (Figure 1). The property includes the MARY-0, CA 4, CA 2 and MARC claim groups whose respective claims are indicated in Table 1 and whose spatial distribution is shown in Figure 2.

The central part of the property has a maximum elevation of approximately 1370 m (4494 feet), which is roughly 450 to 500 m (1476 to 1640 feet) above the valley floor. The topography varies from gently rolling in the central, southern and eastern parts of the property, to steep and rugged in the north, northwest and west.

Access to the property is good and may be obtained directly by bush roads leading off Highway 33 at Carmi to the east, or alternatively from Penticton to the west.

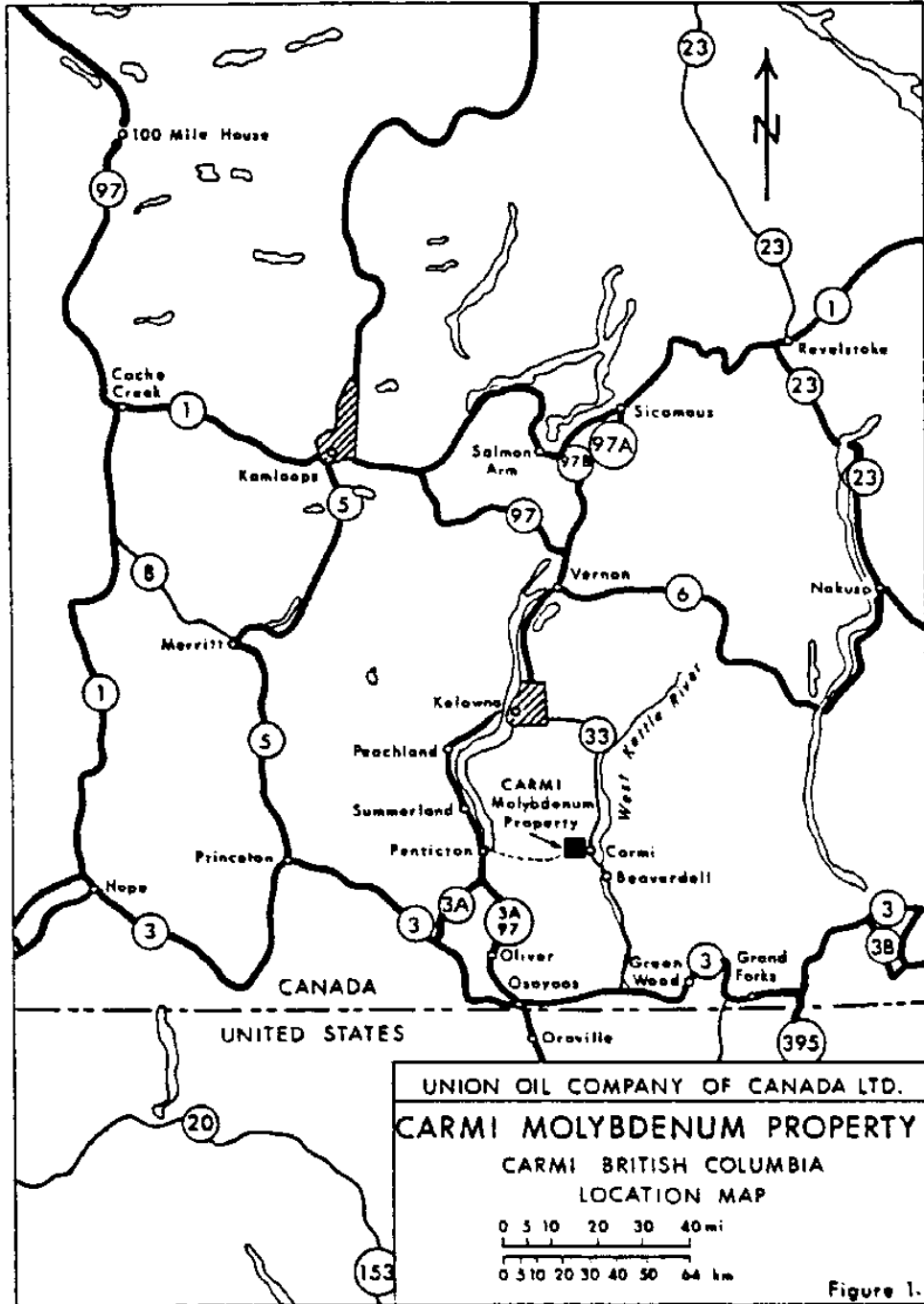


TABLE 1

Carmi Molybdenum Property  
Claim Groups

<u>Group</u>	<u>Claims</u>	<u>Work Performed On</u>
MARY-O	MARY-O #8 MARY-O #28-31 CAPCO #56-59 CAPCO #61-63 CAPCO #68-71 CA #5 CA #7	CA 5
CA 4	CA #4 CA #1 MY #8 MY #29-30	CA 4
CA 2	CA #2 CA #10	CA 2
MARC	MARC #1-24 CA #6	MARC 3, 4, 6, 8, 9, 12

EXPLORATION HISTORY

Initial work in the property area was conducted by Kennco Explorations Limited in 1961 following the identification, in 1960, of anomalous molybdenum in the Beaverdell area during a reconnaissance stream water and sediment survey. Detailed stream geochemistry, in 1961, led to the delineation of anomalous molybdenite-fluorite concentrations within the present property area in a brecciated greisen zone contained within Mesozoic rocks of the Nelson Batholith. This zone of mineralization has subsequently been referred to as the E-Zone. Extensive soil geochemistry and minor prospecting during that year suggested the presence of additional, undetected mineralization.

From 1961 to 1965 Kennco carried out geological mapping, bulldozer trenching and chip sampling in the area of high soil geochemistry. However, low molybdenum assays precluded any significant development until 1965 when two shallow diamond-drill holes (35.1 m or 115 ft. - total depth) were drilled to test subsurface  $\text{MoS}_2$  grades. These holes indicated low and erratic moly values.

From 1969 to 1970 International Minerals and Chemicals Ltd. (IMC) operated on the property and conducted soil geochemistry, geological grid mapping, detailed geophysical surveys, including induced polarization and resistivity, and diamond drilling (1540 m or 5053 ft.); the latter



to test induced polarization targets and possible extensions to known mineralization.

From 1971 to 1973 Husky Oil Ltd., in a joint venture with G.V. Lloyd Exploration Ltd., optioned the property and conducted extensive exploration activity, including geological mapping, geochemical soil sampling and magnetometer and spectrometer geophysical surveys. A ground reconnaissance soil geochemical survey was also conducted to the north of the property in the vicinity of Ferroux Creek to test for anomalous molybdenum and copper in this area.

In 1974 Vestor Explorations Ltd. optioned the property and carried out both diamond and percussion drilling. Seventeen diamond drill holes were completed for a total of 1650 m (5413 ft.) and 8 percussion holes were drilled for a total of 610 m (2000 ft.). A zone of molybdenum mineralization, which is distinct from and occurs to the west of the E-Zone, was identified during this work. This zone is currently referred to as the Lake Zone.

In 1975 Vestor, in a joint venture with Granby Mining Corporation, drilled 43 percussion drill holes totalling 4389 m (14,400 ft.).

In 1976 Vestor drilled an additional 2 diamond drill holes for a total of 396 m (1299 ft.). In that same year the property was optioned

by Craigmont Mines Ltd. who carried out detailed geological mapping, geochemical soil sampling and geophysics including induced polarization and magnetometer surveys. Also in 1976, 22 percussion holes were drilled totalling 1932 m (6337 ft.).

In 1977, Craigmont completed 6 diamond drill holes for 1470 m (4822 ft.) to test the induced polarization and geochemical anomalies outlined the previous year and to check for possible extensions to the Lake and E-Zones. In October, 1977 detailed geological mapping of the property and relogging of all drill core was undertaken by a team of geologists from Amax Exploration Ltd.

In 1978, Union Oil Company of Canada Limited optioned the property and conducted a program to define the characteristics of, and to delimit the geologic setting of the deposit, as well as to define potential drill targets. Work included induced polarization and resistivity surveys, geological mapping, and geochemical soil sampling of 17.9 km of new extensions to the main property grid. In addition, reconnaissance prospecting and geological mapping, and geochemical stream sediment, water and rock chip sampling, in areas peripheral to the survey grid, were also carried out.

CURRENT EXPLORATION ACTIVITY

In 1979 an intensive exploration program was carried out by Union Oil with four main objectives in mind:

1. to better delineate the mineralized zones
2. to establish regional and local geologic controls to the molybdenite zones
3. to evaluate depth potential
4. to evaluate geochemical anomalies identified in 1978

Toward this end the entire property was remapped and the local geology was tied into a more regional or peripheral survey also carried out during the season. A ground magnetometer survey was conducted on 1978 extensions to the main property grid and a deep probing induced polarization survey was performed on selected grid lines across the property. Follow-up stream water and sediment sampling were carried out to complement work conducted in 1978.

A percussion drill program was undertaken in which 64 holes, totalling 6287 m (20,625 ft.), were drilled on the property to test geochemical and/or induced polarization anomalies and to better delineate known mineralized zones. An extensive system of new roads, measuring approximately 13.3 km, was constructed to provide access to all new drill sites. Some environmental reclamation of these roads was also carried out.

PERCUSSION DRILLING

Introduction

Included within the 64 percussion drill holes completed on the property in 1979 were 16, 2, 3 and 10 holes drilled on ground covered by the MARY-O, CA 4, CA 2 and MARC claim groups respectively (see Figure 3).

Mechanics

Two percussion drills were employed during the 1979 field season. The former was a truck mounted drill, owned and operated by Al Miller Percussion Drilling Ltd., and this was responsible for all holes drilled between August 11 and September 20 on the MARY-O, CA 4 and CA 2 claim groups. The latter, owned and operated by Josco Mining Ltd., was a track mounted drill and this was responsible for all holes drilled between October 28 and November 20 on the MARC claim group. Both drills were supported by water truck and/or waterline.

All holes were drilled vertically and they varied in depth from 15 m to 107 m (50 ft. to 350 ft.).

Sludge samples were collected over 3.05 m (10 ft.) intervals and were passed through a sample splitter for reduction to 1/16 of their

original volume. The samples were initially collected in plastic garbage pails, to which was added a molybdenite flocculant. These were then transferred to plastic sample bags which were later packed in five-gallon plastic pails for transport.

### Results

All assays were performed by Acme Analytical Labs, 852 East Hastings St., Vancouver, B.C., V6A 1R6. Samples were assayed for total  $\text{MoS}_2$  only. Significant assay intersections, using a 0.05%  $\text{MoS}_2$  cutoff, are listed in Table 2 and all assay results are presented and correlated with lithologic logs in Appendix 1.

### Conclusions

$\text{MoS}_2$  assays from the individual drill holes are generally less than 0.05% although short drill hole intersections, up to 6.1 m (20 ft.), were encountered with values as high as 0.103%  $\text{MoS}_2$ .

The most significant hole was PDH 79-P-131, drilled in the CA 2 claim group. This indicated two good intersections of 27.4 m (90 ft.) and 12.2 m (40 ft.) assaying 0.096%  $\text{MoS}_2$  and 0.106%  $\text{MoS}_2$  respectively and the hole bottomed out in a 3.05 m (10 ft.) intersection assaying 0.912%  $\text{MoS}_2$ . This hole was drilled adjacent to a known zone of mineralization and was successful in increasing, slightly, the size of this zone.

The sporadically distributed and generally low assay values obtained in holes drilled in the MARY-0 claim group did not indicate any significant new zones of molybdenum mineralization. No significant molybdenum mineralization was detected in holes drilled in the CA 4 and MARC claim groups and, except for PDH 79-P-131, other holes drilled in the CA 2 claim group were also discouraging.

Although the results are generally disappointing most geochemical and/or induced polarization targets were tested and the survey was successful in further delineating existing mineralized zones and in providing a better picture of the controls to the mineralization.

#### ROAD CONSTRUCTION AND MAINTENANCE

One D8K and one TD20C bulldozer were contracted to construct and maintain access roads to all 1979 drill sites. Approximately 10.4 km (6.5 miles) of new roads of 3.65 m (12 ft.) maximum width were constructed within the 4 claim blocks (fresh cut and preliminary grading) and these were later maintained by water barring and drainage ditching. Environmental reclamation, consisting of tree slashing, was carried out along all newly constructed roads, employing one man on a full time basis and 4 men part time. Seeding of all new roads was undertaken by the B.C. Ministry of Forests.

TABLE 2

Significant Assay Intersections from Percussion Drill Holes  
Carmi Moly Property

Claim Group	Drill Hole Number	Intersection		Length		% MoS <sub>2</sub> (0.05% Cut-off)
		Metres	Feet	Metres	Feet	
MARY-O	79-P- 94	94.5-100.6	310-330	6.10	20	0.062
	79-P- 88	100.6-103.6	330-340	3.05	10	0.062
	79-P-108	39.6- 42.7	130-140	3.05	10	0.066
		48.8- 54.9	160-180	6.10	20	0.103
	79-P-104	73.2- 76.2	240-250	3.05	10	0.053
	79-P-113	21.3- 24.4	70- 80	3.05	10	0.071
	79-P-114	18.3- 21.3	60- 70	3.05	10	0.055
CA 4	No Significant Intersections					
CA 2	79-P-131	3.0- 9.1	10- 30	6.10	20	0.060
		18.3- 45.7	60-150	27.43	90	0.096
		73.2- 76.2	240-250	3.05	10	0.058
		82.3- 94.5	270-310	12.19	40	0.106
		103.6-106.7	340-350	3.05	10	0.912
MARC	No Significant Intersections					

COST STATEMENTS



COST STATEMENT

MARY-O CLAIM GROUP

COST STATEMENT

MARY-O CLAIM GROUP  
TECHNICAL

Percussion Drilling - August 11 to September 11, 1979

<u>No.</u>	<u>Date</u>		<u>Drill Hole</u> <u>Number</u>	<u>Depth</u>		<u>Cost @</u> <u>\$4.00/ft.</u>	<u>Total</u> <u>Cost</u>
	<u>Started</u>	<u>Completed</u>		<u>Metres</u>	<u>Feet</u>		
1	Aug. 11	Aug. 11	79-P- 78	105.2	345	\$ 1,380.00	
2	Aug. 14	Aug. 14	79-P- 94	106.7	350	\$ 1,400.00	
3	Aug. 14	Aug. 14	79-P- 95	97.5	320	\$ 1,280.00	
4	Aug. 17	Aug. 17	79-P- 82	91.4	300	\$ 1,200.00	
5	Aug. 19	Aug. 19	79-P- 87	106.7	350	\$ 1,400.00	
6	Aug. 19	Aug. 19	79-P- 91	76.2	250	\$ 1,000.00	
7	Aug. 20	Aug. 20	79-P- 88	106.7	350	\$ 1,400.00	
8	Aug. 23	Aug. 24	79-P-101	85.3	280	\$ 1,120.00	
9	Aug. 28	Aug. 28	79-P-108	106.7	350	\$ 1,400.00	
10	Sept. 7	Sept. 7	79-P-104	106.7	350	\$ 1,400.00	
11	Sept. 8	Sept. 8	79-P-107	91.4	300	\$ 1,200.00	
12	Sept. 8	Sept. 8	79-P-109	106.7	350	\$ 1,400.00	
13	Sept. 9	Sept. 9	79-P-113	106.7	350	\$ 1,400.00	
14	Sept. 9	Sept. 9	79-P-114	106.7	350	\$ 1,400.00	
15	Sept. 10	Sept. 10	79-P-121	106.7	350	\$ 1,400.00	
16	Sept. 11	Sept. 11	79-P-126	91.4	300	\$ 1,200.00	
TOTAL				1598.7	5245	\$20,980.00	\$20,980.00

Assays (for above holes)

Assays	\$5.00/sample X 502 samples	=	\$2,510.00	
Sample Preparation	\$1.75/sample X 502 samples	=	\$ 878.50	\$ 3,388.50

TOTAL TECHNICAL \$24,368.50

COST STATEMENT

MARY-O CLAIM GROUP  
PHYSICAL

Bulldozer Road Construction and Maintenance

<u>Date</u>	<u>Cat Time-D8K</u> <u>(\$77.25/hr.)</u>	<u>Ripper</u> <u>(\$86.52/hr.)</u>	<u>Operator Travel</u> <u>(\$10.00/hr.)</u>	<u>Standby</u> <u>(\$42.50/hr.)</u>	<u>Total Cost</u>
June 19	9 hrs.	1 hr.	2 hrs.	-	
June 20	8.5	1.5	2	-	
June 21	8.5	1.5	2	-	
June 22	6.5	1	2	-	
Total hr.	32.5	5	8	-	
Total \$	\$2,510.63	\$432.60	\$80.00	-	\$3,023.23

<u>Date</u>	<u>Cat Time-TD20C</u> <u>(\$45.00/hr.)</u>		<u>Operator Travel</u> <u>(\$10.00/hr.)</u>	<u>Standby</u>	
July 9	8	-	2	-	
July 12	10	-	2	-	
July 16	4	-	1	-	
July 17	9	-	2	-	
Total hr.	31	-	7	-	
Total \$	\$1,395.00	-	\$70.00	-	\$1,465.00

<u>Date</u>	<u>Cat Time-D8K</u> <u>(\$77.25/hr.)</u>	<u>Ripper</u> <u>(\$86.52/hr.)</u>	<u>Operator Travel</u> <u>(\$10.00/hr.)</u>	<u>Standby</u> <u>(\$42.50/hr.)</u>	
July 25	1	-	-	-	
July 26	2	-	2	-	
Aug. 8	-	-	-	2	
Aug. 15	2	-	-	-	
Aug. 16	10	1	2	-	
Total hr.	15	1	4	2	
Total \$	\$1,158.75	\$ 86.52	\$40.00	\$85.00	\$1,370.27

<u>Date</u>	<u>Cat Time-TD20C</u> <u>(\$45.00/hr.)</u>		<u>Operator Travel</u> <u>(\$10.00/hr.)</u>	<u>Standby</u>	
Nov. 13	3.5	-	3	-	
Nov. 14	3	-	1	-	
Total hr.	6.5	-	4	-	
Total \$	\$ 292.50	-	\$40.00	-	\$ 332.50

\$6,191.00

COST STATEMENT

MARY-O CLAIM GROUP  
PHYSICAL

Balance Forward

Total Cost

\$6,191.00

Supervision

June 19 -	1 man X	1 day X	\$126.00/day	\$126.00
Nov. 13 -	1 man X	1 day X	\$126.00/day	\$126.00
Nov. 14 -	1 man X	0.4 day X	\$126.00/day	\$ 50.40
				<u>\$302.40</u>

\$ 302.40

Vehicle (Rental and Gas)

June 19 -	1 day X	\$27.00/day	\$ 27.00
Nov. 13 -	1 day X	\$27.00/day	\$ 27.00
Nov. 14 -	0.4 day X	\$27.00/day	\$ 10.80
			<u>\$ 64.80</u>

\$ 64.80

TOTAL PHYSICAL

\$6,558.20

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COST STATEMENT

CA 4 CLAIM GROUP

COST STATEMENT

CA 4 CLAIM GROUP  
TECHNICAL

Percussion Drilling - August 11 to September 11, 1979

<u>No.</u>	<u>Date Started</u>	<u>Date Completed</u>	<u>Drill Hole Number</u>	<u>Depth</u>		<u>Cost @ \$4.00/ft.</u>	<u>Total Cost</u>
				<u>Metres</u>	<u>Feet</u>		
1	Sept. 19	Sept. 210	79-P-128	106.7	350	\$ 1,400.00	
2	Sept. 20	Sept. 20	79-P-127	<u>106.7</u>	<u>350</u>	<u>\$ 1,400.00</u>	
			TOTAL	213.4	700	<u>\$ 2,800.00</u>	<u>\$2,800.00</u>
							TOTAL TECHNICAL <u>\$2,800.00</u>

COST STATEMENT

CA 4 CLAIM GROUP  
PHYSICAL

Bulldozer Road Construction - July 26, 1979

<u>Date</u>	<u>Cat Time-D8K</u> <u>(\$77.25/hr.)</u>	<u>Ripper</u> <u>(\$86.52/hr.)</u>	<u>Operator Travel</u> <u>(\$10.00/hr.)</u>	<u>Standby</u> <u>(\$42.50/hr.)</u>	<u>Total Cost</u>
July 26	2 hrs.	2.5 hrs.	1 hr.	-	
Total hrs.	2	2.5	1	-	
Total \$	\$154.50	\$216.30	\$10.00	-	\$380.80

Reclamation - July 26, 1979

One man employed to accompany bulldozer and cut slash  
created by road cut - 1 man X \$10.00/hr. X 4 hr.

\$ 40.00

TOTAL PHYSICAL

\$420.80

COST STATEMENT

CA 2 CLAIM GROUP



COST STATEMENT

CA 2 CLAIM GROUP  
TECHNICAL

Percussion Drilling - September 17 to September 19, 1979

<u>No.</u>	<u>Date Started</u>	<u>Date Completed</u>	<u>Drill Hole Number</u>	<u>Depth</u>		<u>Cost @ \$4.00/ft.</u>	<u>Total Cost</u>
				<u>Metres</u>	<u>Feet</u>		
1	Sept. 17	Sept. 18	79-P-131	106.7	350	\$ 1,400.00	
2	Sept. 18	Sept. 18	79-P-130	106.7	350	\$ 1,400.00	
3	Sept. 19	Sept. 19	79-P-129	<u>106.7</u>	<u>350</u>	<u>\$ 1,400.00</u>	
			TOTAL	320.1	1050	\$ 4,200.00	<u>\$4,200.00</u>
			TOTAL TECHNICAL				<u>\$4,200.00</u>

COST STATEMENT

CA 2 CLAIM GROUP  
PHYSICAL

Bulldozer Road Construction - June 25; July 26-27, 1979

<u>Date</u>	<u>Cat Time-D8K</u> <u>(\$77.25/hr.)</u>	<u>Ripper</u> <u>(\$86.52/hr.)</u>	<u>Operator Travel</u> <u>(\$10.00/hr.)</u>	<u>Standby</u> <u>(\$42.50/hr.)</u>	<u>Total Cost</u>
June 25	8 hrs.	2 hrs.	2 hrs.	-	
July 26	0.5	2	0.5	-	
July 27	6	4	2	-	
Total hr.	14.5	8	4.5	-	
Total \$	\$1,120.13	\$692.16	\$45.00	-	\$1,857.29

Reclamation

July 26-27 Two men employed to cut slash created  
by bulldozer road cut

1 man X \$10.00/hr. X 8 hr./day X 2 days \$160.00  
1 man X \$60.00/day X 2 days \$120.00

Nov. 4 Slash recut at Forestry's request

2 men X \$250.00/day X 0.3 day \$ 75.00  
\$355.00

\$ 355.00

Supervision

July 26-27, Nov. 4

1 man X \$126.00/day X 0.75 day

\$ 94.50

Room and Board

July 26-27 1 man X \$15.00/man/day X 2 days \$30.00

Nov. 4 2 men X \$15.00/man/day X 0.3 day \$ 9.00

July 26-27, Nov. 4 1 man X \$15/man/day X 0.75 day \$11.25

\$50.25

\$ 50.25

COST STATEMENT

CA 2 CLAIM GROUP  
PHYSICAL

Balance Forward

Total Cost  
\$2,357.04

Vehicle (Rental and Gas)

July 26-27	\$27.00/day X 2 days	\$54.00	
Nov. 4	\$27.00/day X 0.3 day	\$ 7.10	
July 26-27, Nov. 4	\$27.00/day X 0.75 day	<u>\$20.25</u>	
		\$81.35	

\$ 81.35

TOTAL PHYSICAL

\$2,438.39

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COST STATEMENT

MARC CLAIM GROUP

COST STATEMENT

MARC CLAIM GROUP  
TECHNICAL

Percussion Drilling - October 28 to November 20, 1979

<u>No.</u>	<u>Date</u>		<u>Drill Hole</u> <u>Number</u>	<u>Depth</u>		<u>Cost @</u> <u>\$3.50/ft.</u>	<u>Total Cost</u>
	<u>Started</u>	<u>Completed</u>		<u>Metres</u>	<u>Feet</u>		
1	Oct. 28	Oct. 28	79-P-146	103.6	340	\$ 1,190.00	
2	Oct. 29	Oct. 29	79-P-161	106.7	350	\$ 1,225.00	
3	Oct. 30	Oct. 30	79-P-145A	15.2	50	\$ 175.00	
4	Oct. 31	Oct. 31	79-P-145B	15.2	50	\$ 175.00	
5	Oct. 31	Nov. 1	79-P-147	61.0	200	\$ 700.00	
6	Nov. 3	Nov. 4	79-P-144	91.4	300	\$ 1,050.00	
7	Nov. 5	Nov. 5	79-P-142	106.7	350	\$ 1,225.00	
8	Nov. 6	Nov. 6	79-P-162	91.4	300	\$ 1,050.00	
9	Nov. 19	Nov. 19	79-P-160	94.5	310	\$ 1,085.00	
10	Nov. 20	Nov. 20	79-P-135	106.7	350	\$ 1,225.00	
			TOTAL	792.4	2600	\$ 9,100.00	\$ 9,100.00

Mobilization Charges

Oct. 22 - Lowbed-Osoyoos to Carmi	\$307.50	
Oct. 25 - Moving Gear	\$422.00	
Oct. 26 - Walking Drill to Drill Camp 2 hr. X \$60.00/hr.	\$120.00	
Oct. 27 - Walking Drill to Drill Site 2 hr. X \$60.00/hr.	<u>\$120.00</u>	
	\$969.50	\$ 969.50

Demobilization Charges

Nov. 22 - Moving Gear - Carmi to Merritt	\$444.00	
Dec. 5-6 - Moving Drill - Carmi to Lower Nicola	<u>\$548.42</u>	
	\$992.42	\$ 992.42

Water Truck Charges

Oct. 28 to Nov. 1 - 5 shifts @ \$60.00/shift		\$ 300.00
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Assays (analyzed for total MoS<sub>2</sub>)

Assays	\$5.00/sample X 240 samples	\$1,200.00	
Sample Prep.	\$1.75/sample X 240 samples	\$ 420.00	
Freight - samples shipped Kelowna to Vancouver		<u>\$ 20.55</u>	
		\$1,640.55	<u>\$ 1,640.55</u>

\$13,002.42

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COST STATEMENT

MARC CLAIM GROUP  
TECHNICAL

Balance Forward

Total Cost  
\$13,002.42

Supervision and Drill Sludge Sampling

Oct. 28-31; Nov. 1, 19-20 - 1 man X 7 days  
X \$60/day

\$ 420.00

Nov. 3 to 6, 19 - 1 man X 5 days X \$126/day

\$ 630.00

\$1,050.00

\$ 1,050.00

Vehicle (Rent and Gas)

Oct. 28-31, Nov. 1, 3-6, 19, 20 -  
11 days X \$27.00/day

\$ 297.00

Room and Board

Oct. 28-31; Nov. 1, 19, 20 -

1 man X 7 days X \$15.00/man/day

\$105.00

Nov. 3-6, 19 - 1 man X 5 days X \$15.00/man/day

\$ 75.00

\$180.00

\$ 180.00

TOTAL TECHNICAL

\$14,529.47

COST STATEMENT

MARC CLAIM GROUP  
PHYSICAL

Bulldozer Road Construction and Maintenance - June 26 to November 20

<u>Date</u>	<u>Cat Time-D8K</u> <u>(\$77.25/hr.)</u>	<u>Ripper</u> <u>(\$86.52/hr.)</u>	<u>Operator Travel</u> <u>(\$10.00/hr.)</u>	<u>Standby</u> <u>(\$42.50/hr.)</u>	<u>Total Cost</u>
June 26	7 hrs.	3 hrs.	3 hrs.	-	
June 27	8	2	3	-	
June 28	9	1	3	-	
June 29	6	1	3	-	
July 30	6	4	3	-	
July 31	9	1	3	-	
Aug. 1	8	2	3	-	
Aug. 2	7	3	3	-	
Aug. 3	6.5	2	3	-	
Aug. 8	3	2	3	1.5	
Aug. 9	5	5	3	-	
Aug. 10	5	5	3	-	
Aug. 13	8.5	1	3	-	
Aug. 14	9	1	3	-	
Aug. 15	3	1	3	-	
Total hr.	100	34	45	1.5	
Total \$	\$7,725.00	\$2,941.68	\$450.00	\$63.75	\$11,180.43

<u>Date</u>	<u>Cat Time-TD20C</u> <u>(\$45.00/hr.)</u>		<u>Operator Travel</u> <u>(\$10.00/hr.)</u>	<u>Standby</u> <u>(\$10.00/hr.)</u>	
Nov. 14	3	-	1.5	1	
Nov. 15	8	-	3	-	
Nov. 16	5	-	3	3	
Nov. 19	7	-	3	1	
Nov. 20	4	-	1	3	
Total hr.	27	-	11.5	8	
Total \$	\$1,215.00	-	\$115.00	\$80.00	\$ 1,410.00

TOTAL PHYSICAL \$12,590.43

FINAL COST STATEMENT



FINAL COST STATEMENT

MARY-O, CA 4, CA 2, AND MARC CLAIM GROUPS

CARMI MOLYBDENUM PROPERTY

<u>CLAIM GROUP</u>	<u>TECHNICAL COST</u>	<u>PHYSICAL COST</u>	<u>TOTAL COST</u>
MARY-O	\$24,368.50	\$ 6,558.20	\$30,926.70
CA 4	\$ 2,800.00	\$ 420.80	\$ 3,220.80
CA 2	\$ 4,200.00	\$ 2,438.39	\$ 6,638.39
MARC	<u>\$14,529.47</u>	<u>\$12,590.43</u>	<u>\$27,119.90</u>
TOTAL	<u>\$45,897.97</u>	<u>\$22,007.82</u>	<u>\$67,905.79</u>

STATEMENT OF QUALIFICATIONS

I, Robert M. Falls of the City of Calgary, in the Province of Alberta, hereby declare:

- (1) That I am a graduate of Carleton University, Ottawa, Ontario with a B.Sc. (Hons.) in Geology, 1974 and that I am a graduate of The University of Western Ontario, London, Ontario, with an M.Sc. in Geology, 1979.
- (2) That I have been employed as a geological assistant and geologist in the mineral industry since 1972 and that I have worked in eastern, northern and western Canada and in Panama, Central America.
- (3) That the foregoing report is based on my personal knowledge of the Carmi Molybdenum Property. I was employed by Union Oil Company of Canada Limited as project manager and was responsible for all aspects of the 1979 drill program.

*Robert M. Falls*

Dated at Calgary, Alberta  
this 18 day of March, 1980.

APPENDIX I  
PERCUSSION DRILL LOGS

# UNION OIL COMPANY OF CANADA LTD

## PERCUSSION DRILL LOG

PROPERTY Carmi Moly  
 HOLE No. 79-P-78  
 COORDINATES 20 + 00E/93 + 50N

ELEVATION 1062 m (3484 ft.)  
 AZIMUTH \_\_\_\_\_  
 INCLINATION - 90°  
 TOTAL DEPTH 105.2 m (345 ft.)

DRILLED BY Al Miller Percussion  
 DATE STARTED Aug 11/79 Drilling  
 DATE COMPLETED Aug 11/79  
 LOGGED BY R. Fulla

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
0-3.0	0-10	OVERBURDEN	5001	3.0-6.1	10-20	3.05	10	0.010
			5002	6.1-9.1	20-30	3.05	10	0.004
3.0-6.1	10-20	PARTIAL OVERBURDEN	5003	9.1-12.2	30-40	3.05	10	0.002
		Light brown to cream coloured. Weathered chips. Coarse-grained.	5004	12.2-15.2	40-50	3.05	10	0.001
		Mainly Plagioclase, quartz. Sericite (1-2%), biotite (<1%).	5005	15.2-18.3	50-60	3.05	10	0.002
		No significant k-feldspar or epidote.	5006	18.3-21.3	60-70	3.05	10	0.002
			5007	21.3-24.4	70-80	3.05	10	0.001
6.1-61.1	20 - 200	LEUCOCRATIC QUARTZ MONZONITE STOCK	5008	24.4-27.4	80-90	3.05	10	0.001
		Significant colour change to light grey to white. Some weathered	5009	27.4-30.4	90-100	3.05	10	0.001
		chips from 6.1-9.1m. Mainly plagioclase and quartz. Biotite	5010	30.4-33.5	100-110	3.05	10	0.002
		(2-3%), Sericite (1-2%), k-feldspar (1-2%), tr. pyrite. No	5011	33.5-36.6	110-120	3.05	10	0.002
		significant epidote.	5012	36.6-39.6	120-130	3.05	10	0.003
		9.1-12.2m (30'-40') - Lighter colour, biotite decrease (0.5-	5013	39.6-42.7	130-140	3.05	10	0.002
		1%). Mainly plagioclase and quartz, k-feldspar (1-3%), sericite	5014	42.7-45.7	140-150	3.05	10	0.002
		(0.5-1%), tr. pyrite, tr. molybdenite,	5015	45.7-48.8	150-160	3.05	10	0.001
		12.2-18.3m (40'-60') - no molybdenite noted.	5016	48.8-51.8	160-170	3.05	10	0.001
		18.3-21.3m (60'-70') - Minor yellow ferri-molybdate (?).	5017	51.8-54.9	170-180	3.05	10	0.002
		21.3-27.4m (70'-90') - no ferri-molybdate	5018	54.9-57.9	180-190	3.05	10	0.002
		27.4-30.4m (90'-100') - Slight k-feldspar increase (3-4%).	5019	57.9-61.0	190-200	3.05	10	0.003
		30.4-45.7m (100'-150') - Slight k-feldspar decrease (2-3%).	5020	61.0-64.0	200-210	3.05	10	0.001
		45.7-57.9m (150'-190') - Slight k-feldspar increase (3-5%).	5021	64.0-67.1	210-220	3.05	10	0.001
		57.9-61.0m (190'-200') - tr. molybdenite.	5022	67.1-70.1	220-230	3.05	10	0.001
			5023	70.1-73.2	230-240	3.05	10	0.002
61.1-82.3	200 - 270	DACITE DYKE (?)	5024	73.2-76.2	240-250	3.05	10	0.001
		Slightly darker grey than above. Mainly plagioclase, quartz.	5025	76.2-79.2	250-260	3.05	10	0.002
		k-feldspar decrease (1-2%), Biotite (0.5-1%), tr. sericite,	5026	79.2-82.3	260-270	3.05	10	0.002
		tr. py., no moly noted.	5027	82.3-85.3	270-280	3.05	10	0.002
			5028	85.3-88.4	280-290	3.05	10	0.002
		67.1-79.2m (220'-260') - k-feldspar decrease (<1%).	5029	88.4-91.4	290-300	3.05	10	0.002
		79.2-82.3m (260'-270') - Colour lightening with transition to	5030	91.4-94.5	300-310	3.05	10	0.001
		leuco. Stock.	5031	94.5-97.5	310-320	3.05	10	0.001
			5032	97.5-100.6	320-330	3.05	10	0.002
82.3-106.7	270 - 350	LEUCOCRATIC QUARTZ MONZONITE STOCK	5033	100.6-103.6	330-340	3.05	10	0.001
		Light grey to white (similar to 6.1-61.0m). Mainly plagioclase	5034	103.6-106.7	340-350	3.05	10	0.002
		and quartz. K-feldspar (1%), biotite (1%), sericite (0.5-1%)						
		tr. pyrite.						

1  
2  
1



**UNION OIL COMPANY OF CANADA LTD  
PERCUSSION DRILL LOG**

PROPERTY Carmi Moly  
HOLE No. 79-P-82  
COORDINATES 114 + 00E/97 + 50N

ELEVATION 1105 m (3625 ft.)  
AZIMUTH \_\_\_\_\_  
INCLINATION -90°  
TOTAL DEPTH 91.4 m (300 ft.)

Al Miller Percussion  
DRILLED BY Drilling  
DATE STARTED Aug 17, 1979  
DATE COMPLETED Aug 17, 1979  
LOGGED BY R. Falls

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>3</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
0-3.0	0-10	OVERBURDEN	5248	3.0-6.1	10-20	3.05	10	0.001
			5249	6.1-9.1	20-30	3.05	10	0.001
3.0-6.1	10-20	NELSON DIORITE	5250	9.1-12.2	30-40	3.05	10	0.002
		Dark grey. Mainly plagioclase, Biotite (10%), epidote (5%),	5251	12.2-15.2	40-50	3.05	10	0.002
		k-feldspar (1-2%), quartz (1%), sericite (<1%), tr. pyrite, tr.	5252	15.2-18.3	50-60	3.05	10	0.001
		magnetite.	5253	18.3-21.3	60-70	3.05	10	0.001
			5254	21.3-24.4	70-80	3.05	10	0.001
6.1-9.1	20-30	TRANSITION ZONE	5255	24.4-27.4	80-90	3.05	10	0.003
		Slightly lighter grey than above. Mainly plagioclase, Biotite	5256	27.4-30.4	90-100	3.05	10	0.001
		(3-5%), sericite (2-5%), quartz (2-5%), k-feldspar (2-5%),	5257	30.4-33.5	100-110	3.05	10	0.005
		epidote (<1%), tr. pyrite, tr. magnetite.	5258	33.5-36.6	110-120	3.05	10	0.001
			5259	36.6-39.6	120-130	3.05	10	0.001
9.1-12.2	30-40	PEGMATITE (?)	5260	39.6-42.7	130-140	3.05	10	0.003
		Light grey (lighter than above). Mainly plagioclase, Quartz	5261	42.7-45.7	140-150	3.05	10	0.010
		(10-15%), k-feldspar (3-5%), biotite (2%), sericite (1%), tr.	5262	45.7-48.8	150-160	3.05	10	0.005
		epidote, tr. pyrite, tr. magnetite.	5263	48.8-51.8	160-170	3.05	10	0.002
			5264	51.8-54.9	170-180	3.05	10	0.002
12.2-21.3	40-70	NELSON DIORITE	5265	54.9-57.9	180-190	3.05	10	0.001
		Dark grey. Mainly plagioclase, Biotite (10%), epidote (3-5%),	5266	57.9-61.0	190-200	3.05	10	0.001
		k-feldspar (1%), quartz (<1%), sericite (<1%), tr. magnetite,	5267	61.0-64.0	200-210	3.05	10	0.002
		tr. pyrite.	5268	64.0-67.1	210-220	3.05	10	0.002
		15.2-18.3m (50'-60') - Increased k-feldspar (2-3%), quartz (1-2%)	5269	67.1-70.1	220-230	3.05	10	0.002
		Decreased epidote (2%).	5270	70.1-73.2	230-240	3.05	10	0.001
		18.3-21.3m (60'-70') - k-feldspar (1-2%), epidote (2-3%), quartz	5271	73.2-76.2	240-250	3.05	10	0.003
		(<1%).	5272	76.2-79.2	250-260	3.05	10	0.004
			5273	79.2-82.3	260-270	3.05	10	0.002
21.3-29.6	70-100	LEUCOCRATIC QUARTZ MON ZONITE STOCK	5274	82.3-85.3	270-280	3.05	10	0.003
		Colour change to lighter grey. Mainly plagioclase, Biotite	5275	85.3-88.4	280-290	3.05	10	0.003
		(4-5%), k-feldspar (3-5%), quartz (3-5%), Sericite (2-3%),	5276	88.4-91.4	290-300	3.05	10	0.002
		epidote (2%), tr. pyrite, tr. magnetite, tr. fluorite (amethyst?),						
		tr. molybdenite.						
		24.4-27.4m (80'-90') Increasingly lighter grey to white. Quartz						
		(7-15%), k-feldspar (3-5%), biotite (1-2%), sericite (1-2%),						
		tr. pyrite, tr. magnetite, tr. fluorite (amethyst?), no						
		significant epidote.						
		27.4-36.6m (90'-120') - no fluorite noted.						

UNION OIL COMPANY OF CANADA LTD  
PERCUSSION DRILL LOG

PROPERTY \_\_\_\_\_  
HOLE No. 79-P-82 Con't  
COORDINATES \_\_\_\_\_

ELEVATION \_\_\_\_\_  
AZIMUTH \_\_\_\_\_  
INCLINATION \_\_\_\_\_  
TOTAL DEPTH \_\_\_\_\_

DRILLED BY \_\_\_\_\_  
DATE STARTED \_\_\_\_\_  
DATE COMPLETED \_\_\_\_\_  
LOGGED BY \_\_\_\_\_

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
		36.6-39.6m (120'-130') - Slightly increased biotite (2-3%), epidote (<1%).						
39.6-73.2	130-240	NELSON DIORITE Darker grey than above. Mainly plagioclase. Biotite (3%), quartz (3-5%), k-feldspar (2-3%), epidote (1-2%), sericite (<1%), tr. pyrite, tr. magnetite. 42.7-45.7m (140'-150') - k-feldspar decrease (<1%), Sericite increase (1%). 45.7-48.8m (150'-160') - k-feldspar (1%). 48.8-51.8m (160'-170') - Decreased biotite (2-3%), epidote (<1%), k-feldspar (2-3%), tr. chlorite. 51.8-54.9m (170'-180') - epidote 1-2%. 54.9-57.9m (180'-190') - k-feldspar (1%). 57.9-73.2m (190'-240') - k-feldspar (3%).						
73.2-76.2	240-250	TRANSITION ZONE Slightly lighter grey than above. Mainly plagioclase. Quartz (5%), k-feldspar (3-5%), biotite (3-5%), epidote (2-3%), sericite (<1%), tr. pyrite, tr. magnetite.						
76.2-91.4	250-300	LEUCOCRATIC QUARTZ MONZONITE STOCK Light grey. Mainly plagioclase. Quartz (10%), k-feldspar (5-10%), biotite (3%), Sericite (1%), epidote (<1%), tr. pyrite, tr. magnetite. 82.3-85.3m (270'-280') - Increasingly lighter grey to buff white. Quartz (10-15%), k-feldspar (5-10%), biotite (2-3%), tr. sericite, tr. epidote, tr. pyrite, tr. magnetite. 85.3-88.4m (280'-290') - k-feldspar (1-2%). 88.4-91.4m (290'-300') - pyrite (0.5-1%).						

# UNION OIL COMPANY OF CANADA LTD

## PERCUSSION DRILL LOG

PROPERTY Carmi Moly  
 HOLE No. 79-P-87  
 COORDINATES 113 + 00E/96 + 50N

ELEVATION 1125 m (3691 ft.)  
 AZIMUTH 0  
 INCLINATION 90  
 TOTAL DEPTH 106.7 m (350 ft.)

Al Miller Percussion  
 DRILLED BY Drilling  
 DATE STARTED Aug. 19, 1979  
 DATE COMPLETED Aug 19, 1979  
 LOGGED BY R. Pells

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% Mos <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
0 - 9.1	0 - 30	OVERBURDEN	5393	9.1-12.2	30-40	3.05	10	0.001
			5394	12.2-15.2	40-50	3.05	10	0.001
9.1 - 12.2	30 - 40	LEUCOCRATIC QUARTZ MONZONITE STOCK OR QUARTZ PORPHYRY DYKE	5395	15.2-18.3	50-60	3.05	10	0.001
		White. Plagioclase, quartz (10-15%), k-feldspar (2-3%), biotite (0.5-1%), chlorite (0.5-1%), tr. sericite, tr. pyrite, tr. molybdenite.	5396	18.3-21.3	60-70	3.05	10	0.001
			5397	21.3-24.4	70-80	3.05	10	0.001
			5398	24.4-27.4	80-90	3.05	10	0.001
			5399	27.4-30.4	90-100	3.05	10	0.002
12.2-21.3	40 - 70	NELSON DIORITE	5400	30.4-33.5	100-110	3.05	10	0.001
		Dark grey. Plagioclase, biotite (5-6%), epidote (2-3%), quartz (1%), chlorite (<1%), k-feldspar (<1%), tr. pyrite.	5401	33.5-36.6	110-120	3.05	10	0.001
		15.2-18.3m (50'-60') - Quartz (3%), k-feldspar (2-3%), tr. sericite.	5402	36.6-39.6	120-130	3.05	10	0.001
		18.3-21.3m (60'-70') - Quartz (1%).	5403	39.6-42.7	130-140	3.05	10	0.001
			5404	42.7-45.7	140-150	3.05	10	0.001
			5405	45.7-48.8	150-160	3.05	10	0.001
			5406	48.8-51.8	160-170	3.05	10	0.001
21.3-27.4	70 - 90	DACITE DYKE	5407	51.8-54.9	170-180	3.05	10	0.001
		Brownish grey. Plagioclase, biotite (1-2%), k-feldspar (1-2%), quartz (1%), chlorite (1%), epidote (<1%), tr. pyrite, tr. sericite.	5408	54.9-57.9	180-190	3.05	10	0.002
		24.4-27.4m (80'-90') - Transition zone to NELSON DIORITE (?)	5409	57.9-61.0	190-200	3.05	10	0.001
			5410	61.0-64.0	200-210	3.05	10	0.001
			5411	64.0-67.1	210-220	3.05	10	0.001
			5412	67.1-70.1	220-230	3.05	10	0.001
27.4-30.4	90 - 100	NELSON DIORITE	5413	70.1-73.2	230-240	3.05	10	0.001
		Grey. Plagioclase, biotite (2-3%), chlorite (2-3%), quartz (2-3%), k-feldspar (2-3%), epidote (<1%), tr. magnetite, tr. pyrite.	5414	73.2-76.2	240-250	3.05	10	0.001
			5415	76.2-79.2	250-260	3.05	10	0.001
			5416	79.2-82.3	260-270	3.05	10	0.001
30.4-39.6	100 - 130	DACITE DYKE	5417	82.3-85.3	270-280	3.05	10	0.001
		Similar to 21.3-27.4m	5418	85.3-88.4	280-290	3.05	10	0.001
		33.5-39.6m (110'-130') - Lighter grey. Biotite and chlorite (<1%), k-feldspar (<1%), tr. magnetite, tr. hornblende.	5419	88.4-91.4	290-300	3.05	10	0.001
			5420	91.4-94.5	300-310	3.05	10	0.001
			5421	94.5-97.5	310-320	3.05	10	0.001
			5422	97.5-100.6	320-330	3.05	10	0.002
39.6-42.7	130 - 140	NELSON DIORITE	5423	100.6-103.6	330-340	3.05	10	0.001
		Dark grey. Plagioclase, biotite (3-4%), chlorite (2-3%), quartz (2-3%), epidote (0.5-1%), k-feldspar (<1%), tr. sericite, tr. pyrite.	5424	103.6-106.7	340-350	3.05	10	0.001
42.7-51.8	140 - 170	DACITE DYKE (??)						



**UNION OIL COMPANY OF CANADA LTD  
PERCUSSION DRILL LOG**

PROPERTY \_\_\_\_\_  
HOLE No. 79-P-87 Cont. \_\_\_\_\_  
COORDINATES \_\_\_\_\_

ELEVATION \_\_\_\_\_  
AZIMUTH \_\_\_\_\_  
INCLINATION \_\_\_\_\_  
TOTAL DEPTH \_\_\_\_\_

DRILLED BY \_\_\_\_\_  
DATE STARTED \_\_\_\_\_  
DATE COMPLETED \_\_\_\_\_  
LOGGED BY \_\_\_\_\_

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>3</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
		Similar to 33.5-39.6m. Light grey.						
51.8-64.0	170 - 210	NELSON DIORITE Grey. Plagioclase, biotite (5-7%), quartz (2%), k-feldspar (1-2%), epidote (1-2%), chlorite (<1%), tr. pyrite, ± tr. sericite. 61.0-64.0 (200'-210') - k-feldspar (2-3%).						
64.0-70.1	210 - 230	LEUCOCRATIC QUARTZ MONZONITE STOCK (?) Light grey. Plagioclase, quartz (5-7%), biotite (3%), k-feldspar (2%), epidote (<1%), chlorite (<1%), tr. sericite, tr. pyrite. 67.1-70.1m (220'-230') - Lighter grey than above. Quartz (5-10%), biotite (1-2%).						
70.1-73.2	230 - 240	NELSON DIORITE Dark grey. Plagioclase, biotite (5-10%), quartz (2-3%), chlorite (1-2%), epidote (1%), k-feldspar (<1%), tr. pyrite.						
73.2-106.	240 - 350	LEUCOCRATIC QUARTZ MONZONITE STOCK (?) Lighter grey than above. Similar to 64.0-70.1m. Biotite (1-2%), k-feldspar (<1-1%).						

**UNION OIL COMPANY OF CANADA LTD  
PERCUSSION DRILL LOG**

PROPERTY Carmi Moly  
HOLE No. 79-P-88  
COORDINATES 113 + 00E/97 + 50N

ELEVATION 1120 m (3675 ft.)  
AZIMUTH 0  
INCLINATION -90  
TOTAL DEPTH 106.7 m (350 ft.)

At Miller Percussion  
Drilling  
DRILLED BY \_\_\_\_\_  
DATE STARTED Aug 20, 1979  
DATE COMPLETED Aug 20, 1979  
LOGGED BY R. Falls

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
0-6.1	0-20	OVERBURDEN	5425	6.1-9.1	20-30	3.05	10	0.002
			5426	9.1-12.2	30-40	3.05	10	0.001
6.1-12.2	20-40	NELSON DIORITE	5427	12.2-15.2	40-50	3.05	10	0.010
		Dark grey. Plagioclase, biotite (5-7%), k-feldspar (3%), epidote (2%), quartz (2-4%), chlorite (1-2%), tr. sericite, tr. magnetite, tr. pyrite, tr. molybdenite,	5428	15.2-18.3	50-60	3.05	10	0.004
			5429	18.3-21.3	60-70	3.05	10	0.003
			5430	21.3-24.4	70-80	3.05	10	0.001
			5431	24.4-27.4	80-90	3.05	10	0.003
12.2-15.2	40-50	SPECKLED GRANODIORITE DYKE (?)	5432	27.4-30.4	90-100	3.05	10	0.003
		Grey. Plagioclase, quartz (5-10%), k-feldspar (3%), biotite (2-3%), chlorite (1-2%), epidote (<1%), tr. sericite, tr. pyrite, tr. magnetite, tr. molybdenite,	5433	30.4-33.5	100-110	3.05	10	0.002
			5434	33.5-36.6	110-120	3.05	10	0.003
			5435	36.6-39.6	120-130	3.05	10	0.003
			5436	39.6-42.7	130-140	3.05	10	0.006
15.2-24.4	50-80	NELSON DIORITE	5437	42.7-45.7	140-150	3.05	10	0.002
		Grey. Plagioclase, k-feldspar (5-7%), quartz (2-4%), chlorite (2-3%), biotite (2-3%), epidote (1%), tr. pyrite, tr. sericite, tr. magnetite,	5438	45.7-48.8	150-160	3.05	10	0.001
		18.3-24.4m (60'-80') - Biotite (5-10%), chlorite (3-5%), k-feldspar (3-4%), epidote (3%),	5439	48.8-51.8	160-170	3.05	10	0.012
			5440	51.8-54.9	170-180	3.05	10	0.018
			5441	54.9-57.9	180-190	3.05	10	0.022
			5442	57.9-61.0	190-200	3.05	10	0.018
			5443	61.0-64.0	200-210	3.05	10	0.020
24.4-27.4	80-90	PEGMATITE DYKE	5444	64.0-67.1	210-220	3.05	10	0.004
		White. Plagioclase, quartz (20%), k-feldspar (10%), chlorite (1-2%), biotite (<1%), sericite (<1%), tr. epidote, tr. pyrite,	5445	67.1-70.1	220-230	3.05	10	0.001
			5446	70.1-73.2	230-240	3.05	10	0.002
			5447	73.2-76.2	240-250	3.05	10	0.001
27.4-54.9	90-180	NELSON DIORITE	5448	76.2-79.2	250-260	3.05	10	0.002
		Similar to 18.3-24.4m	5449	79.2-82.3	260-270	3.05	10	0.001
		30.4-33.5m (100'-110') - k-feldspar (1%),	5450	82.3-85.3	270-280	3.05	10	0.005
		33.5-39.6m (110'-130') - Slightly lighter grey. Quartz (3-5%), k-feldspar (3-4%), chlorite (3-5%), biotite (3-5%), epidote (1-2%),	5451	85.3-88.4	280-290	3.05	10	0.001
			5452	88.4-91.4	290-300	3.05	10	0.005
			5453	91.4-94.5	300-310	3.05	10	0.038
		39.6-42.7m (130'-140') - Chlorite (4-6%), quartz (2-4%), biotite (<1%),	5454	94.5-97.5	310-320	3.05	10	0.023
			5455	97.5-100.6	320-330	3.05	10	0.037
		42.7-45.7m (140'-150') - Biotite (1%),	5456	100.6-103.6	330-340	3.05	10	0.062
		45.7-51.8m (150'-170') - Biotite (5-8%), chlorite (3-6%), k-feldspar (2-3%),	5457	103.6-106.7	340-350	3.05	10	0.012
		51.8-54.9m (170'-180') - Quartz (2-5%), tr. molybdenite. Slight decrease in biotite and chlorite,						

**UNION OIL COMPANY OF CANADA LTD  
PERCUSSION DRILL LOG**

PROPERTY \_\_\_\_\_  
HOLE No. 79-P-88 Cont.  
COORDINATES \_\_\_\_\_

ELEVATION \_\_\_\_\_  
AZIMUTH \_\_\_\_\_  
INCLINATION \_\_\_\_\_  
TOTAL DEPTH \_\_\_\_\_

DRILLED BY \_\_\_\_\_  
DATE STARTED \_\_\_\_\_  
DATE COMPLETED \_\_\_\_\_  
LOGGED BY \_\_\_\_\_

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
54.9-61.0	180 - 200	POSSIBLE BRECCIA ZONE (?) Grey. Plagioclase, quartz (5-10%), Sharp decrease in biotite (2%) and chlorite (<1%). K-feldspar (1%), tr. epidote, tr. sericite, tr. pyrite, tr. magnetite.						
61.0-73.2	200 - 240	NELSON DIORITE Grey. Plagioclase, quartz (3-6%), biotite (2-3%), chlorite (1%?), epidote (<1%), k-feldspar (<1%), tr. sericite, tr. magnetite, tr. pyrite. 64.0-67.1m (210'-220') - Slightly lighter grey. Biotite (3-4%), epidote (1%). 67.1-73.2m (220'-240') - Slightly darker grey. Biotite (4-7%), chlorite (1-2%), epidote (1-2%), k-feldspar (1%).						
73.2-76.2	240-250	SPECKLED GRANODIORITE DYKE (?) White. Plagioclase, quartz (20%), biotite (2%), epidote (1%), k-feldspar (1%), chlorite (<1%), tr. sericite, tr. magnetite, tr. pyrite.						
76.2-106.7	250 - 350	NELSON DIORITE Grey. Plagioclase, quartz (3-5%), biotite (2-3%), chlorite (2-3%), k-feldspar (<1%), epidote (<1%), tr. sericite, tr. pyrite, tr. magnetite. 76.2-82.3m (260'-270') - Biotite (5%), chlorite (1-2%), k-feldspar (0.5-1%). 82.3-85.3m (270'-280') - Slightly lighter grey. Nelson Diorite (?) k-feldspar (<1%). 85.3-91.4m (280'-300') - Decreased biotite (2%), chlorite (1%). 91.4-103.6m (300'-340') - Darker grey. Biotite (3-5%), epidote (0.5-1%), sericite (0.5-1%). 103.6-106.7m (340'-350') - Sericite (1-2%).						

**UNION OIL COMPANY OF CANADA LTD**  
**PERCUSSION DRILL LOG**

ELEVATION 1140 m (3740 ft.)

AZIMUTH                     

INCLINATION -90°

TOTAL DEPTH 76.2 m (250 ft.)

Al Miller Percussion

DRILLED BY Drilling

DATE STARTED Aug. 19, 1979

DATE COMPLETED Aug. 19, 1979

LOGGED BY R. Fallo

PROPERTY Carmi Moly  
HOLE No. 79-P-91  
COORDINATES 112 + 00E/96 + 00N

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
U-4.6	0-15	OVERBURDEN	5370	4.6-9.1	15-30	4.57	15	0.001
			5371	9.1-12.2	30-40	3.05	10	0.001
4.6-9.1	15-30	NELSON DIORITE	5372	12.2-15.2	40-50	3.05	10	0.002
		GREY. Mainly plagioclase. Biotite (5-10%), quartz (3-4%), k-feldspar (2-3%), epidote (1-2%), sericite (<1%), tr. pyrite.	5373	15.2-18.3	50-60	3.05	10	0.001
			5374	18.3-21.3	60-70	3.05	10	0.001
			5375	21.3-24.4	70-80	3.05	10	0.001
9.1-12.2	30-40	SPECKLED GRANODIORITE DYKE (?)	5376	24.4-27.4	80-90	3.05	10	0.001
		Lighter grey than above. Mainly plagioclase, k-feldspar (5-10%), biotite (3-5%), quartz (2%), epidote (1%), tr. pyrite.	5377	27.4-30.4	90-100	3.05	10	0.001
			5378	30.4-33.5	100-110	3.05	10	0.001
			5379	33.5-36.6	110-120	3.05	10	0.002
12.2-54.9	40-180	NELSON DIORITE	5380	36.6-39.6	120-130	3.05	10	0.005
		Similar grey to 4.6-9.1m. Mainly plagioclase. Biotite (5-10%), k-feldspar (3-5%), quartz (3-4%), epidote (2-4%), tr. pyrite, ± tr. magnetite, ± chlorite.	5381	39.6-42.7	130-140	3.05	10	0.004
		24.4-27.4m (80'-90') - k-feldspar decrease (2%).	5382	42.7-45.7	140-150	3.05	10	0.001
		27.4-30.4m (90'-100') - k-feldspar increase (3-4%), epidote (1-3%), tr. magnetite.	5383	45.7-48.8	150-160	3.05	10	0.004
		30.4-33.5m (100'-110') - k-feldspar (2%).	5384	48.8-51.8	160-170	3.05	10	0.001
		33.5-36.6m (110'-120') - k-feldspar (5%).	5385	51.8-54.9	170-180	3.05	10	0.001
		36.6-39.6m (120'-130') - k-feldspar (2%), tr. molybdenite.	5386	54.9-57.9	180-190	3.05	10	0.002
		39.6-42.7m (130'-140') - k-feldspar (3-5%), no moly. noted.	5387	57.9-61.0	190-200	3.05	10	0.001
		42.7-45.7m (140'-150') - k-feldspar (5-7%).	5388	61.0-64.0	200-210	3.05	10	0.048
		45.7-51.8m (150'-170') - Darker grey, k-feldspar (3%).	5389	64.0-67.1	210-220	3.05	10	0.021
		51.8-54.9m (170'-180') - k-feldspar (5-7%).	5390	67.1-70.1	220-230	3.05	10	0.017
			5391	70.1-73.2	230-240	3.05	10	0.007
			5392	73.2-76.2	240-250	3.05	10	0.006
54.9-67.1	180-220	LEUCOCRATIC QUARTZ MONZONITE STOCK(?)						
		Lighter grey than above. Mainly plagioclase. Quartz (5-10%), k-feldspar (3-5%), biotite (3-5%), epidote (<1%), tr. pyrite.						
		57.9-61.0m (190'-200') - Slightly darker than above (dirty).						
		Quartz (3-5%), biotite (3%), k-feldspar (1-3%), tr. pyrite, ± tr. sericite, no significant epidote.						
		61.0-64.0m (200'-210') - Biotite decrease (1%), tr. molybdenite.						
		64.0-67.1m (210'-220') - No moly. noted.						
67.1-76.2	220-250	DACITE DYKE (?)						
		Darker grey than above. Mainly plagioclase. Quartz (1-3%),						



**UNION OIL COMPANY OF CANADA LTD  
PERCUSSION DRILL LOG**

ELEVATION 1162 m (3812 ft.)

AZIMUTH \_\_\_\_\_

INCLINATION -90°

TOTAL DEPTH 106.7 m (350 ft.)

Al Miller Percussion

DRILLED BY Drilling

DATE STARTED Aug. 14, 1979

DATE COMPLETED Aug. 14, 1979

LOGGED BY R. FATH

PROPERTY Carmi Muly  
HOLE No. 79-P-94  
COORDINATES 111 + 00E/97 + 50N

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>3</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
0-3.0	0-10	OVERBURDEN	5150	3.0-6.1	10-20	3.05	10	0.001
			5151	6.1-9.1	20-30	3.05	10	0.007
3.0-12.2	10-40	NELSON DIORITE	5152	9.1-12.2	30-40	3.05	10	0.001
		Grey. Plagioclase, biotite (5-8%), quartz (3-4%), k-feldspar (3%), epidote (2%), chlorite (<1-1% ?), tr. sericite, tr. magnetite, tr. pyrite.	5153	12.2-15.2	40-50	3.05	10	0.002
			5154	15.2-18.3	50-60	3.05	10	0.002
			5155	18.3-21.3	60-70	3.05	10	0.000
		9.1-12.2m (30'-40') - Biotite (3-6%), epidote (3%), chlorite (1-3%),	5156	21.3-24.4	70-80	3.05	10	0.003
			5157	24.4-27.4	80-90	3.05	10	0.012
			5158	27.4-30.4	90-100	3.05	10	0.014
12.2-18.3	40-60	VALHALLA QUARTZ MONZONITE (?) OR NELSON QUARTZ DIORITE	5159	30.4-33.5	100-110	3.05	10	0.015
		Light grey. Plagioclase, quartz (5-10%), k-feldspar (4-5%), biotite (0.5-1%), chlorite (0.5-1%), epidote (<1%), tr. sericite, tr. pyrite.	5160	33.5-36.6	110-120	3.05	10	0.011
			5161	36.6-39.6	120-130	3.05	10	0.019
			5162	39.6-42.7	130-140	3.05	10	0.012
		15.2-18.3m (50'-60') - Biotite (1-2%), epidote (1-2%), chlorite (1%), tr. magnetite, tr. pyrite.	5163	42.7-45.7	140-150	3.05	10	0.005
			5164	45.7-48.8	150-160	3.05	10	0.010
			5165	48.8-51.8	160-170	3.05	10	0.018
18.3-30.4	60-100	NELSON DIORITE	5166	51.8-54.9	170-180	3.05	10	0.004
		Actual contact uncertain - gradational.	5167	54.9-57.9	180-190	3.05	10	0.002
		18.3-21.3m (60'-70') - Epidote (2-3%), chlorite (2-3%), tr. mag., tr. pyrite.	5168	57.9-61.0	190-200	3.05	10	0.002
			5169	61.0-64.0	200-210	3.05	10	0.005
		21.3-24.4m (70'-80') - Quartz (2-3%), k-feldspar (2%), chlorite (3-4%), biotite (2-3%), epidote (2-3%), tr. pyrite, tr. magnetite.	5170	64.0-67.1	210-220	3.05	10	0.003
			5171	67.1-70.1	220-230	3.05	10	0.003
			5172	70.1-73.2	230-240	3.05	10	0.003
30.4-36.6	100-120	BRECCIA ZONE	5173	73.2-76.2	240-250	3.05	10	0.012
		Light grey. Plagioclase quartz (5-10%), k-feldspar (2-4%), biotite (2%), epidote (<1%), chlorite (<1%), tr. sericite, tr. pyrite, tr. magnetite, tr. molybdenite.	5174	76.2-79.2	250-260	3.05	10	0.005
			5175	79.2-82.3	260-270	3.05	10	0.013
			5176	82.3-85.3	270-280	3.05	10	0.013
			5177	85.3-88.4	280-290	3.05	10	0.018
36.6-73.2	120-240	NELSON DIORITE	5178	88.4-91.4	290-300	3.05	10	0.018
		Grey. Plagioclase, biotite (2-3%), k-feldspar (2-3%), quartz (1-3%), epidote (2%), chlorite (<1-1%), tr. sericite, tr. pyrite.	5179	91.4-94.5	300-310	3.05	10	0.033
		42.7-45.7m (140'-150') - Quartz (3-5%),	5180	94.5-97.5	310-320	3.05	10	0.071
		45.7-48.8m (150'-160') - Biotite (5-6%), epidote (2-3%), quartz (2-3%), chlorite (1-2%),	5181	97.5-100.6	320-330	3.05	10	0.053
		48.8-51.8 (160'-170') - Lighter grey. Quartz (3-5%), biotite (3-4%), chlorite (<1%),	5182	100.6-103.6	330-340	3.05	10	0.015
			5183	103.6-106.7	340-350	3.05	10	0.010

**UNION OIL COMPANY OF CANADA LTD  
PERCUSSION DRILL LOG**

PROPERTY \_\_\_\_\_  
HOLE No. 79-P-94 Cont.  
COORDINATES \_\_\_\_\_

ELEVATION \_\_\_\_\_  
AZIMUTH \_\_\_\_\_  
INCLINATION \_\_\_\_\_  
TOTAL DEPTH \_\_\_\_\_

DRILLED BY \_\_\_\_\_  
DATE STARTED \_\_\_\_\_  
DATE COMPLETED \_\_\_\_\_  
LOGGED BY \_\_\_\_\_

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
		51.8-73.2m (170'-240') - Biotite (4-6%).						
73.2-88.4	240-290	NELSON QUARTZ DIORITE (?) Light grey than above. Plagioclase, quartz (5-10%), k-feldspar (2-3%), biotite (2-3%), epidote (<1%), tr. sericite, chlorite (<1%), tr. pyrite. 79.2-82.3m (260'-270') - Biotite (2-4%). 82.3-85.3m (270'-280') - Lighter grey than 79.2-82.3m. Biotite (2%), chlorite (<1-1%). 85.3-88.4m (280'-290') - k-feldspar (3-4%).						
88.4-94.5	290-310	NELSON DIORITE Slightly darker grey than above. Plagioclase, biotite (2-4%), quartz (2-3%), chlorite (1-2%), epidote (<1%), k-feldspar (<1%), tr. sericite, tr. magnetite, tr. pyrite, tr. molybdenite. 91.4-94.5m (300'-310') - Sericite (0.5-1%).						
94.5-106.7	310-350	BRECCIA ZONE(?) Lighter grey than above. Plagioclase, quartz (5-10%), biotite (2-3%), epidote (<1%), chlorite (<1%), k-feldspar (<1%), tr. sericite, tr. pyrite, tr. magnetite, tr. molybdenite. 97.5-100.6m (320'-330') - tr. epidote. 100.6-101.6m (330'-340') - Buff white - similar to Leuco. Quartz Monzonite. Biotite (1%), chlorite (<1%), no moly. noted. 103.6-106.7m (340'-350') - Slightly darker than above. Biotite (2-3%), epidote (0.5-1%), chlorite (<1%).						

**UNION OIL COMPANY OF CANADA LTD  
PERCUSSION DRILL LOG**

PROPERTY Carbide Moly  
HOLE No. 79-P-95  
COORDINATES 111 ± 00E/98 + 50N

ELEVATION 1162 m (3812 Ft.)  
AZIMUTH \_\_\_\_\_  
INCLINATION -90°  
TOTAL DEPTH 97.5 m (320 Ft.)

Al Miller Percussion  
Drilling  
DRILLED BY Aug 14, 1979  
DATE STARTED Aug 14, 1979  
DATE COMPLETED Aug 14, 1979  
LOGGED BY R. Falle

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
0-3.0	0-10	OVERBURDEN	5184	3.0-6.1	10-20	3.05	10	0.001
			5185	6.1-9.1	20-30	3.05	10	0.005
3.0-18.3	10-60	VALHALLA QUARTZ MONZONITE (?)	5186	9.1-12.2	30-40	3.05	10	0.003
		Grey. Plagioclase, quartz (5-10%), k-feldspar (3-5%), biotite	5187	12.2-15.2	40-50	3.05	10	0.001
		(1%), epidote (<0.5%), chlorite (<0.5%), tr. pyrite, tr.	5188	15.2-18.3	50-60	3.05	10	0.003
		magnetite.	5189	18.3-21.3	60-70	3.05	10	0.002
		6.1-9.1m (20'-30') - K-feldspar (4-6%), biotite (1-2%), pyrite	5190	21.3-24.4	70-80	3.05	10	0.004
		(0.5%), tr. sericite.	5191	24.4-27.4	80-90	3.05	10	0.003
		9.1-12.2m (30'-40') - tr. pyrite,	5192	27.4-30.4	90-100	3.05	10	0.003
		12.2-18.3m (40'-60') - K-feldspar (3-5%), epidote (1%),	5193	30.4-33.5	100-110	3.05	10	0.003
			5194	33.5-36.6	110-120	3.05	10	0.003
8.3-21.3	60-70	PEGMATITE DYKE	5195	36.6-39.6	120-130	3.05	10	0.002
		Light grey to white. Plagioclase, quartz (15-20%), biotite (2%)	5196	39.6-42.7	130-140	3.05	10	0.005
		k-feldspar (2%), chlorite (tr.-0.5%), tr. sericite, tr. pyrite.	5197	42.7-45.7	140-150	3.05	10	0.002
		No significant epidote.	5198	45.7-48.8	150-160	3.05	10	0.002
			5199	48.8-51.8	160-170	3.05	10	0.002
1.3-24.4	70-80	VALHALLA QUARTZ MONZONITE (?)	5200	51.8-54.9	170-180	3.05	10	0.004
		Similar to 3.0-18.3m. Grey. Plagioclase, quartz (5-10%),	5201	54.9-57.9	180-190	3.05	10	0.002
		k-feldspar (4-5%), biotite (2%), epidote (1%), chlorite (<0.5%),	5202	57.9-61.0	190-200	3.05	10	0.002
		tr. pyrite, tr. magnetite.	5203	61.0-64.0	200-210	3.05	10	0.001
			5204	64.0-67.1	210-220	3.05	10	0.002
24.4-33.5	80-110	NELSON DIORITE	5205	67.1-70.1	220-230	3.05	10	0.002
		Darker grey than above. Plagioclase, biotite (3-5%), quartz	5206	70.1-73.2	230-240	3.05	10	0.003
		(1-3%), epidote (1%), k-feldspar (1%), chlorite (<1%), tr. pyrite	5207	73.2-76.2	240-250	3.05	10	0.005
		tr. sericite, tr. magnetite.	5208	76.2-79.2	250-260	3.05	10	0.002
		27.4-30.4 (90'-100') - Biotite (5-7%), chlorite (1-2%), k-feld-	5209	79.2-82.3	260-270	3.05	10	0.003
		spar (<1%),	5210	82.3-85.3	270-280	3.05	10	0.001
		30.4-33.5m (100'-110') - Biotite (3-5%), Transition to Valhalla?	5211	85.3-88.4	280-290	3.05	10	0.001
			5212	88.4-91.4	290-300	3.05	10	0.001
33.5-42.7	110-140	VALHALLA QUARTZ MONZONITE (?)	5213	91.4-94.5	300-310	3.05	10	0.001
		Light grey. Plagioclase, quartz (5%), biotite (1-2%), k-feld-	5214	94.5-97.5	310-320	3.05	10	0.002
		spar (1%), chlorite (0.5-1%), epidote (<1%), tr. pyrite, tr.						
		magnetite.						
		36.6-39.6m (120'-130') - K-feldspar (<1%), tr. sericite.						
		39.6-42.7m (130'-140') - K-feldspar (0.5-1%).						



**UNION OIL COMPANY OF CANADA LTD  
PERCUSSION DRILL LOG**

PROPERTY \_\_\_\_\_  
HOLE No. 79-P-95 Cont.  
COORDINATES \_\_\_\_\_

ELEVATION \_\_\_\_\_  
AZIMUTH \_\_\_\_\_  
INCLINATION \_\_\_\_\_  
TOTAL DEPTH \_\_\_\_\_

DRILLED BY \_\_\_\_\_  
DATE STARTED \_\_\_\_\_  
DATE COMPLETED \_\_\_\_\_  
LOGGED BY \_\_\_\_\_

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
42.7-70.1	140-230	<b>NELSON DIORITE</b> Similar to 24.4-33.5m. Dark grey. Plagioclase, biotite (3-5%) quartz (1-3%), chlorite (1-2%), k-feldspar (1%), epidote (1%), tr. pyrite, tr. magnetite. 45.7-51.8m (150'-170') - Quartz (3-4%), epidote (<1%), k-feldspar (<1%). 51.8-57.9m (170'-180') - Quartz (1-3%), chlorite (<1%), tr. k-feldspar. 57.9-61.0m (180'-200') - Biotite (5-6%), k-feldspar (1-2%), epidote (1%), tr. sericite. 61.0-64.0m (200'-210') - k-feldspar (<1%). (210'-220') - tr. k-feldspar 64.0-70.1m (220'-230') - Biotite (3-5%), quartz (3-4%), epidote (0.5-1%).						
70.1-73.2	230-240	<b>NELSON QUARTZ DIORITE (?)</b> Slightly lighter grey than above. Plagioclase, quartz (3-5%), biotite (2-3%), k-feldspar (<1%), chlorite (<1%), epidote (<1%), tr. pyrite.						
73.2-85.3	240-280	<b>NELSON DIORITE</b> Similar to 42.7-70.1m. Grey. Plagioclase, biotite (3-4%), quartz (1-3%), chlorite (0.5-1%), k-feldspar (<1%), epidote (<1%), tr. pyrite, tr. sericite, tr. magnetite. 76.2-82.3m (250'-270') - Biotite (5-6%), epidote (2%). 82.3-85.3m (270'-280') - Biotite (3-4%).						
85.3-97.5	280-320	<b>NELSON DIORITE (?)</b> Similar to 70.1-73.2m, but also containing sericite (0.5%), tr. k-feldspar, & tr. magnetite.						

**UNION OIL COMPANY OF CANADA LTD  
PERCUSSION DRILL LOG**

PROPERTY CARMI MOLY  
HOLE No. 79-P-101  
COORDINATES 110°00E/91°50N

ELEVATION 1205m (3953 ft.)  
AZIMUTH \_\_\_\_\_  
INCLINATION -90 deg.  
TOTAL DEPTH 85.3m (280 ft.)

PERCUSSION  
DRILLED BY AL MILLER DRILLING  
DATE STARTED Aug 23/79  
DATE COMPLETED Aug 24/79  
LOGGED BY R. Falls

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>3</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
0 - 6.1	0 - 20	OVERBURDEN	5641	6.1 - 9.1	20 - 30	3.05	10	0.002
6.1-42.7	20-140	NELSON QUARTZ DIORITE (?)	5642	9.1 - 12.2	30 - 40	3.05	10	0.005
		Light grey. Plagioclase, quartz (5%), k-feldspar (3-5%),	5643	12.2 - 15.2	40 - 50	3.05	10	0.004
		biotite (<1%), tr. pyrite, no significant epidote or sericite.	5644	15.2 - 18.2	50 - 60	3.05	10	0.001
		9.1-12.2m (30'-40') - k-feldspar (5%), sericite (<0.5%).	5645	18.3 - 21.3	60 - 70	3.05	10	0.001
		12.2-24.4m (40'-80') - Biotite (2-4%), epidote (1-3%) + tr.	5646	21.3 - 24.4	70 - 80	3.05	10	0.001
		magnetite, minor chlorite.	5647	24.4 - 27.4	80 - 90	3.05	10	0.004
		24.4-27.4m (80'-90') - Biotite (4-5%), epidote (3-4%), k-feldspar	5648	27.4 - 30.4	90 - 100	3.05	10	0.001
		(1-2%).	5649	30.4 - 33.5	100 - 110	3.05	10	0.002
		27.4-30.4m (90'-100') - k-feldspar (5%), biotite (3-4%), epidote	5650	33.5 - 36.6	110 - 120	3.05	10	0.001
		(2-3%).	5651	36.6 - 39.6	120 - 130	3.05	10	0.007
		30.4-33.5m (100'-110') - Epidote (4%).	5652	39.6 - 42.7	130 - 140	3.05	10	0.002
		33.5-36.6m (110'-120') - Biotite (4%), epidote (4%), k-feldspar	5653	42.7 - 45.7	140 - 150	3.05	10	0.003
		(3%).	5654	45.7 - 48.8	150 - 160	3.05	10	0.002
		36.6-39.6m (120'-130') - Biotite (4-5%), epidote (4-5%), k-feld-	5655	48.8 - 51.8	160 - 170	3.05	10	0.002
		spar (2%).	5656	51.8 - 54.9	170 - 180	3.05	10	0.002
		39.6-42.7m (130'-140') - k-feldspar (4-5%).	5657	54.9 - 57.9	180 - 190	3.05	10	0.001
			5658	57.9 - 61.0	190 - 200	3.05	10	0.001
42.7-45.7	140-150	FELDSPAR PORPHYRY DYKE (?)	5659	61.0 - 64.0	200 - 210	3.05	10	0.001
		Brownish grey. Plagioclase, k-feldspar (4-5%), quartz (1-3%?),	5660	64.0 - 67.1	210 - 220	3.05	10	0.002
		biotite (1-2%), epidote (1-2%), tr. sericite, tr. pyrite, tr.	5661	67.1 - 70.1	220 - 230	3.05	10	0.001
		magnetite.	5662	70.1 - 73.2	230 - 240	3.05	10	0.004
			5663	73.2 - 76.2	240 - 250	3.05	10	0.004
45.7-64.0	150-210	NELSON DIORITE (?)	5664	76.2 - 79.2	250 - 260	3.05	10	0.002
		Light grey. Plagioclase, biotite (4-5%), epidote (4-5%),	5665	79.2 - 82.3	260 - 270	3.05	10	0.005
		k-feldspar (1%), quartz (<1%), tr. pyrite, tr. magnetite.	5666	82.3 - 85.3	270 - 280	3.05	10	0.006
		48.8-51.8m (160'-170') - Slightly lighter grey. Biotite (4%),						
		epidote (4%), k-feldspar (2%).						
		51.8-64.0m (170'-210') - k-feldspar (3-5%), epidote (3-4%),						
		chlorite (<1%).						
64.0-76.2	210-250	LEUCOCRATIC QUARTZ MONZONITE STOCK (?)						
		Slightly lighter grey than above but dirty. Not like typical						
		leuco stock. Mainly plagioclase. Quartz (2-5%?), k-feldspar						
		(3-5%), epidote (2-3%), biotite (1-2%), sericite (<0.5%), tr.						
		pyrite, tr. magnetite.						
		70.1-76.2m (230'-250') - k-feldspar (5%), biotite (0.5-1%).						

# UNION OIL COMPANY OF CANADA LTD PERCUSSION DRILL LOG

PROPERTY \_\_\_\_\_  
 HOLE No. 79-P-101 Cont.  
 COORDINATES \_\_\_\_\_

ELEVATION \_\_\_\_\_  
 AZIMUTH \_\_\_\_\_  
 INCLINATION \_\_\_\_\_  
 TOTAL DEPTH \_\_\_\_\_

DRILLED BY \_\_\_\_\_  
 DATE STARTED \_\_\_\_\_  
 DATE COMPLETED \_\_\_\_\_  
 LOGGED BY \_\_\_\_\_

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
		epidote (<1%), tr. sericite,						
76.2-85.3	250-280	NELSON DIORITE (7) Grey. Plagioclase, quartz (1-3%), biotite (3-5%), epidote (3-4%), k-feldspar (1%), tr. pyrite, tr. magnetite. 79.2-82.3m (260'-270') - k-feldspar (2%). 82.3-85.3m (270'-280') - tr. sericite.						

**UNION OIL COMPANY OF CANADA LTD**  
**PERCUSSION DRILL LOG**

PROPERTY CARMI MOUNTAIN  
HOLE No. 79-P-104  
COORDINATES 109100E/99150N

ELEVATION 1215m (3986 ft.)  
AZIMUTH \_\_\_\_\_  
INCLINATION -90 deg  
TOTAL DEPTH 106.7m (350 ft.)

PERCUSSION  
DRILLED BY AL. HILLER DRILLING  
DATE STARTED SEPT 7/79  
DATE COMPLETED SEPT 7/79  
LOGGED BY R. Falls

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
0 - 6.1	0 - 20	OVERBURDEN	3333	6.1-9.1	20-30	3.05	10	0.003
			3334	9.1-12.2	30-40	3.05	10	0.001
6.1 - 9.1	20 - 30	NELSON DIORITE (?)	3335	12.2-15.2	40-50	3.05	10	0.001
		Grey. Plagioclase, chlorite (4-5%), k-feldspar (3%), quartz (2-4%), epidote (1%), biotite (<1%), tr. sericite.	3336	15.2-18.3	50-60	3.05	10	0.001
			3337	18.3-21.3	60-70	3.05	10	0.002
			3338	21.3-24.4	70-80	3.05	10	0.001
9.1 - 27.4	30 - 90	HIGHLY ALTERED NELSON DIORITE (?)	3339	24.4-27.4	80-90	3.05	10	0.001
		Lighter grey than above. Plagioclase, quartz (5-10%), chlorite (5-8%), k-feldspar (5-6%), epidote (4-5%), tr. sericite, tr. pyrite. No significant biotite.	3340	27.4-30.4	90-100	3.05	10	0.001
		12.2-15.2m (40'-50') - chlorite (10%). No significant sericite or pyrite noted.	3341	30.4-33.5	100-110	3.05	10	0.002
		15.2-21.3m (50'-70') - k-feldspar (10%), epidote (3-4%), tr. biotite.	3342	33.5-36.6	110-120	3.05	10	0.001
		21.3-24.4m (70'-80') - tr. sericite.	3343	36.6-39.6	120-130	3.05	10	0.001
		24.4-27.4m (80'-90') - Transition Zone.	3344	39.6-42.7	130-140	3.05	10	0.001
			3345	42.7-45.7	140-150	3.05	10	0.002
			3346	45.7-48.8	150-160	3.05	10	0.006
			3347	48.8-51.8	160-170	3.05	10	0.008
			3348	51.8-54.9	170-180	3.05	10	0.004
27.4-30.4	90 - 100	FELDSPAR PORPHYRY DYKE (?)	3349	54.9-57.9	180-190	3.05	10	0.015
		Reddish grey. Plagioclase, chlorite (5-7%), quartz (5%?), k-feldspar (1%), tr. sericite.	3350	57.9-61.0	190-200	3.05	10	0.008
			3351	61.0-64.0	200-210	3.05	10	0.003
			3352	64.0-67.1	210-220	3.05	10	0.018
			3353	67.1-70.1	220-230	3.05	10	0.042
30.4-57.9	100 - 190	ALTERED NELSON DIORITE	3354	70.1-73.2	230-240	3.05	10	0.035
		Grey. Plagioclase, chlorite (7-10%), k-feldspar (3%), quartz (2-5%?), epidote (2%), tr. sericite, tr. pyrite. No significant biotite.	3355	73.2-76.2	240-250	3.05	10	0.053
		33.5-36.6m (110'-120') - Chlorite (10%), k-feldspar (5-6%), epidote (3%).	3356	76.2-79.2	250-260	3.05	10	0.035
		36.6-39.6m (120'-130') - k-feldspar (10%).	3357	79.2-82.3	260-270	3.05	10	0.016
		39.6-48.8m (130'-160') - Quartz (10%).	3358	82.3-85.3	270-280	3.05	10	0.012
		48.8-54.9m (160'-180') - Finer grained. Chlorite (5-10%), k-feldspar (5-10%).	3359	85.3-88.4	280-290	3.05	10	0.017
		54.9-57.9m (180'-190') - Quartz (10-15%).	3360	88.4-91.4	290-300	3.05	10	0.012
			3361	91.4-94.5	300-310	3.05	10	0.021
			3362	94.5-97.5	310-320	3.05	10	0.010
			3363	97.5-100.6	320-330	3.05	10	0.026
			3364	100.6-103.6	330-340	3.05	10	0.039
57.9-64.0	190 - 210	FELDSPAR PORPHYRYDYKE (?)	3365	103.6-106.7	340-350	3.05	10	0.046
		Similar to 27.4-30.4m. Darker grey than above. Plagioclase, quartz (5-10%), chlorite (5-8%), k-feldspar (2-3%), epidote						

**UNION OIL COMPANY OF CANADA LTD**  
**PERCUSSION DRILL LOG**

PROPERTY \_\_\_\_\_  
HOLE No. 79-P-104 Cont.  
COORDINATES \_\_\_\_\_

ELEVATION \_\_\_\_\_  
AZIMUTH \_\_\_\_\_  
INCLINATION \_\_\_\_\_  
TOTAL DEPTH \_\_\_\_\_

DRILLED BY \_\_\_\_\_  
DATE STARTED \_\_\_\_\_  
DATE COMPLETED \_\_\_\_\_  
LOGGED BY \_\_\_\_\_

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
		(1%), tr. sericite, tr. pyrite.						
64.0-82.3	210 - 270	BRECCIA ZONE Grey. Plagioclase, chlorite (5-10%), quartz (5-10%), k-feldspar (3%), sericite (2-3%), epidote (1%). 67.1-70.1m (220'-230') - Quartz (10-20%), sericite (5-10%), chlorite (5%), pyrite (0.5-1%), epidote (0.5%), tr. biotite, tr. molybdenite, tr. fluorite (amethyst ?). 70.1-76.2m (230'-250') - Sericite (3%), biotite (1%). 76.2-79.2m (250'-260') - Sericite (2%), pyrite (0.5%). 79.2-82.3m (260'-270') - k-feldspar (3-5%), sericite (0.5-1%), tr. pyrite. No moly. noted.						
82.3-91.4	270 - 300	ALTERED NELSON DIORITE Similar to 30.4-57.9m. Grey. Plagioclase, quartz (10%), chlorite (5-8%), k-feldspar (5-8%), sericite (<1%), epidote (<1%), tr. pyrite. 88.4-91.4m (290'-300') - Epidote (2-3%), k-feldspar (2%), tr. magnetite.						
91.4-97.5	300 - 320	POSSIBLE BRECCIA ZONE Grey. Plagioclase, quartz (10-15%), k-feldspar (4-5%), chlorite (5%), pyrite (0.5-1%), sericite (0.5%), epidote (0.5%), tr. biotite, tr. molybdenite. 94.5-97.5m (310'-320') - Sericite (1%), tr. pyrite.						
97.5-106.7	320 - 350	LEUCOCRATIC QUARTZ MONZONITE STOCK Light grey to white. Plagioclase quartz (10-20%), k-feldspar (5%), chlorite (3-5%), sericite (1%), epidote (<1%), tr. pyrite, tr. molybdenite. 100.6-103.6m (330'-340') - White. K-feldspar (5-7%), sericite (5%). 103.6-106.7m (340'-350') - Chlorite (2%).						

# UNION OIL COMPANY OF CANADA LTD

## PERCUSSION DRILL LOG

PROPERTY CARMI MOLY  
 HOLE No. 79-P-107  
 COORDINATES 106+00E/96+50N

ELEVATION 1260m (4134 ft.)  
 AZIMUTH \_\_\_\_\_  
 INCLINATION -90 deg  
 TOTAL DEPTH 91.4m (300ft.)

PERCUSSION  
 DRILLED BY A. MILLER DRILLING  
 DATE STARTED SEPT 8/79  
 DATE COMPLETED SEPT 8/79  
 LOGGED BY R. Falls

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
0 - 3.0	0 - 10	OVERBURDEN	3434	3.0-6.1	10-20	3.05	10	0.025
3.0-6.1	10 - 20	PARTIAL OVERBURDEN / PEGMATITE DYKE (?) Light brown. Plagioclase, quartz (10-15%), sericite (3-4%), biotite (1-2%), k-feldspar (<1%), tr. pyrite, tr. magnetite, tr. molybdenite	3435 3436 3437 3438 3439 3440	6.1-9.1 9.1-12.2 12.2-15.2 15.2-18.3 18.3-21.3 21.3-24.4	20-30 30-40 40-50 50-60 60-70 70-80	3.05 3.05 3.05 3.05 3.05 3.05	10 10 10 10 10 10	0.002 0.001 0.004 0.006 0.001 0.009
6.1-9.1	20 - 30	VALHALLA QUARTZ MONZONITE White. Plagioclase, quartz (10%), k-feldspar (2-3%), biotite (2%), epidote (<1%), sericite (<1%), tr. pyrite, tr. magnetite.	3441 3442 3443	24.4-27.4 27.4-30.4 30.4-33.5	80-90 90-100 100-110	3.05 3.05 3.05	10 10 10	0.015 0.003 0.008
9.1-15.2	30 - 50	NELSON DIORITE Light grey. Plagioclase, biotite (4-5%), epidote (2-3%), quartz (1-2%), k-feldspar (1%), tr. magnetite, tr. pyrite. 12.2-15.2m (40'-50') - Slightly darker grey. Biotite (8-10%), epidote (3-5%),	3444 3445 3446 3447 3448 3449	33.5-36.6 36.6-39.6 39.6-42.7 42.7-45.7 45.7-48.8 48.8-51.8	110-120 120-130 130-140 140-150 150-160 160-170	3.05 3.05 3.05 3.05 3.05 3.05	10 10 10 10 10 10	0.020 0.009 0.005 0.007 0.022 0.006
15.2-24.4	50 - 80	NELSON DIORITE (?) Greenish grey. Plagioclase, quartz (3-5% ?), epidote (3-5%), biotite (2%), k-feldspar (2%), chlorite (<1%), tr. fluorite (amethyst ?).	3450 3451 3452 3453 3454	51.8-54.9 54.9-57.9 57.9-61.0 61.0-64.0 64.0-67.1	170-180 180-190 190-200 200-210 210-220	3.05 3.05 3.05 3.05 3.05	10 10 10 10 10	0.007 0.013 0.009 0.027 0.015
24.4-76.2	80 - 250	NELSON DIORITE Grey. Plagioclase, biotite (4-5%), epidote (4-5%), k-feldspar (2-3%), quartz (1%), tr. pyrite, tr. sericite, tr. molybdenite. 27.4-30.4m (90'-100') - k-feldspar (<1%), epidote (2-4%), tr. magnetite, no molybdenite noted, 30.4-39.6m (100'-130') - Slightly darker grey. Biotite(5-10%), epidote (4-5%), quartz (<1%), 39.6-42.7m (130'-140') - Slightly lighter grey. Biotite (4-7%), epidote (2-3%), quartz (2-3%), k-feldspar (1-2%), tr. fluorite (amethyst ?), 42.7-48.8m (140'-160') - Slightly darker grey. Biotite (5-10%), quartz (<1%), k-feldspar (<1%), no fluorite (amethyst ?) noted. 48.8-61.0m (160'-200') - Lighter grey. Biotite (3-5%), epidote (3-5%), quartz (1-4%), k-feldspar (<1-1%). 61.0-64.0m (200'-210') - tr. molybdenite.	3455 3456 3457 3458 3459 3460 3461 3462	67.1-70.1 70.1-73.2 73.2-76.2 76.2-79.2 79.2-82.3 82.3-85.3 85.3-88.4 88.4-91.4	220-230 230-240 240-250 250-260 260-270 270-280 280-290 290-300	3.05 3.05 3.05 3.05 3.05 3.05 3.05 3.05	10 10 10 10 10 10 10 10	0.007 0.012 0.005 0.013 0.015 0.008 0.006 0.007

# UNION OIL COMPANY OF CANADA LTD PERCUSSION DRILL LOG

PROPERTY \_\_\_\_\_  
HOLE No. 29-R-107 Cont.  
COORDINATES \_\_\_\_\_

ELEVATION \_\_\_\_\_  
AZIMUTH \_\_\_\_\_  
INCLINATION \_\_\_\_\_  
TOTAL DEPTH \_\_\_\_\_

DRILLED BY \_\_\_\_\_  
DATE STARTED \_\_\_\_\_  
DATE COMPLETED \_\_\_\_\_  
LOGGED BY \_\_\_\_\_

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
		64.0-67.1m (210'-220') - no moly. noted.						
		67.1-73.2m (220'-240') - Slightly darker grey. Biotite (5-8%), quartz (1% ?), tr. k-feldspar.						
		73.2-76.2m (240'-250') - Slightly lighter grey. Biotite (3-5%), epidote (2-3%), quartz (2-3%).						
76.2-82.3	250 - 270	SPECKLED GRANODIORITE DYKE (?) Light grey. Mainly plagioclase, quartz (3%), biotite (2-3%), k-feldspar (2-3%), epidote (2-3%), tr. sericite, tr. pyrite, tr. magnetite, tr. molybdenite. 76.2-82.3m (260'-270') - Transition to Nelson Diorite. Slightly darker.						
82.3-85.3	270 - 280	NELSON DIORITE Grey. Plagioclase, biotite (5%), epidote (2-3%), quartz (1-2%), tr. pyrite, tr. sericite.						
85.3-91.4	280 - 300	LEUCOCRATIC QUARTZ MONZONITE STOCK White. Mainly plagioclase and quartz. Biotite (2%), k-feldspar (1-2%), sericite (1%), epidote (<1%), tr. pyrite, tr. molybdenite. 88.4-91.4m (290'-300') - tr. magnetite, no moly. noted.						

# UNION OIL COMPANY OF CANADA LTD

## PERCUSSION DRILL LOG

PROPERTY CARMI MOLY  
 HOLE No. 79-P-10B  
 COORDINATES 106+00E/97+60N

ELEVATION 1260m (4135 Ft.)  
 AZIMUTH \_\_\_\_\_  
 INCLINATION -90 deg  
 TOTAL DEPTH 106.7m (350 ft.)

PERCUSSION  
 DRILLED BY AL MILLER DRILLING  
 DATE STARTED AUG 28/79  
 DATE COMPLETED AUG 28/79  
 LOGGED BY R. Falls

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
0 - 3.0	0 - 10	OVERBURDEN	5943	3.0 - 6.1	10 - 20	3.05	10	0.005
			5944	6.1 - 9.1	20 - 30	3.05	10	0.022
3.0 - 6.1	10 - 20	LEUCOCRATIC QUARTZ MONZONITE DYKE	5945	9.1 - 12.2	30 - 40	3.05	10	0.002
		Buff white. Plagioclase, quartz (20%), sericite (2%), k-feldspar (1-2%), chlorite (<1%), tr. biotite, tr. pyrite, tr. magnetite,	5946	12.2 - 15.2	40 - 50	3.05	10	0.006
			5047	15.2 - 18.3	50 - 60	3.05	10	0.001
			5048	18.3 - 21.3	60 - 70	3.05	10	0.001
			5949	21.3 - 24.4	70 - 80	3.05	10	0.002
6.1 - 12.2	20 - 40	NELSON QUARTZ DIORITE	5950	24.4 - 27.4	80 - 90	3.05	10	0.001
		Light grey. Plagioclase, quartz (5-10%), chlorite (5%), k-feldspar (2-3%), sericite (1-2%), biotite (<1%), tr. epidote, tr. pyrite, tr. magnetite, tr. molybdenite,	5951	27.4 - 30.4	90 - 100	3.05	10	0.001
			5952	30.4 - 33.5	100 - 110	3.05	10	0.008
			5953	33.5 - 36.6	110 - 120	3.05	10	0.001
		9.1-12.2m (30'-40') - Chlorite (10-12%), k-feldspar (5%), epidote (1-2%), sericite (<1%). No moly noted.	5954	36.6 - 39.6	120 - 130	3.05	10	0.002
			5955	39.6 - 42.7	130 - 140	3.05	10	0.066
			5956	42.7 - 45.7	140 - 150	3.05	10	0.007
12.2 - 18.3	40 - 60	LEUCOCRATIC QUARTZ MONZONITE DYKE	5957	45.7 - 48.8	150 - 160	3.05	10	0.031
		White. Plagioclase, quartz (>20%), k-feldspar (5%), chlorite (1%), biotite (1%), tr. sericite, tr. pyrite.	5958	48.8 - 51.8	160 - 170	3.05	10	0.064
			5959	51.8 - 54.9	170 - 180	3.05	10	0.142
		15.2-18.3m (50'-60') - Whittish grey. Transition to Nelson Diorite. Increased k-feldspar (5-10%), chlorite (2%), biotite (2%).	5960	54.9 - 57.9	180 - 190	3.05	10	0.040
			5961	57.9 - 61.0	190 - 200	3.05	10	0.008
			5962	61.0 - 64.0	200 - 210	3.05	10	0.005
			5963	64.0 - 67.1	210 - 220	3.05	10	0.006
18.3 - 27.4	60 - 90	NELSON DIORITE	5964	67.1 - 70.1	220 - 230	3.05	10	0.006
		Dark grey. Plagioclase, biotite (6-7%), chlorite (5-7%), k-feldspar (3-4%), quartz (1-3%), epidote (1%), tr. sericite, tr. pyrite, tr. magnetite, tr. molybdenite.	5965	70.1 - 73.2	230 - 240	3.05	10	0.005
			5966	73.2 - 76.2	240 - 250	3.05	10	0.005
			5967	76.2 - 79.2	250 - 260	3.05	10	0.004
		21.3-24.4m (70'-80') - k-feldspar (2%). No molybdenite noted.	5968	79.2 - 82.3	260 - 270	3.05	10	0.004
			5969	82.3 - 85.3	270 - 280	3.05	10	0.008
		24.4-27.4m (80'-90') - k-feldspar (3-4%).	5970	85.3 - 88.4	280 - 290	3.05	10	0.011
27.4 - 36.6	90 - 120	LEUCOCRATIC QUARTZ MONZONITE STOCK	5971	88.4 - 91.4	290 - 300	3.05	10	0.004
		White. Plagioclase, quartz (20%), k-feldspar (5-10%), chlorite (1-2%), tr. biotite, tr. pyrite.	5972	91.4 - 94.5	300 - 310	3.05	10	0.003
			5973	94.5 - 97.5	310 - 320	3.05	10	0.002
		30.4-33.5m (100'-110') - Biotite (1%).	5974	97.5 - 100.6	320 - 330	3.05	10	0.001
			5975	100.6-103.6	330 - 340	3.05	10	0.004
		33.5-36.6m (110'-120') - k-feldspar (3%), tr. magnetite, tr. sericite.	5976	103.6-106.7	340 - 350	3.05	10	0.013
36.6 - 39.6	120 - 130	NELSON DIORITE (POSSIBLE XENOLITH)						



UNION OIL COMPANY OF CANADA LTD  
PERCUSSION DRILL LOG

PROPERTY \_\_\_\_\_  
HOLE No. 79-P-108 Cont.  
COORDINATES \_\_\_\_\_

ELEVATION \_\_\_\_\_  
AZIMUTH \_\_\_\_\_  
INCLINATION \_\_\_\_\_  
TOTAL DEPTH \_\_\_\_\_

DRILLED BY \_\_\_\_\_  
DATE STARTED \_\_\_\_\_  
DATE COMPLETED \_\_\_\_\_  
LOGGED BY \_\_\_\_\_

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
		Light grey. Plagioclase, quartz (5-10%), biotite (3-4%), chlorite (3-4%), k-feldspar (3%), epidote (1%), tr. pyrite, tr. magnetite, ± tr. hornblende.						
39.6-106.7	130 - 350	LEUCOCRATIC QUARTZ MONZONITE STOCK Similar to 27.4-36.6m. White. Plagioclase, quartz (20%), k-feldspar (1-2%), biotite (1-2%), chlorite (1-2%), tr. sericite, tr. epidote, tr. pyrite, tr. molybdenite, tr. magnetite. 42.7-45.7m (140'-150') - k-feldspar (5%), chlorite (1%), biotite (0.5%), sericite (0.5%). No moly noted. 45.7-48.8m (150'-160') - k-feldspar (2-3%), chlorite and biotite (<1%), sericite (0.5-1%). 48.8-51.8m (160'-170') - Sericite (5%), k-feldspar (3-5%), tr. molybdenite. 51.8-57.9m (170'-190') - K-feldspar (5%), sericite (3%), 57.9-61.0m (190'-200') - K-feldspar (5-10%), chlorite (1%), sericite (<1%). 61.0-70.1m (200'-230') - No moly noted. 70.1-82.3m (230'-270') - K-feldspar (5-7%), tr. biotite. 82.3-85.3m (270'-280') - K-feldspar (3%). 85.3-88.4m (280'-290') - K-feldspar (3-4%), tr. molybdenite. 88.4-91.4m (290'-300') - tr. fluorite (amethyst ?). No moly noted. 91.4-94.5m (300'-310') - tr. moly. No fluorite noted. 94.5-97.5m (310'-320') - tr. fluorite (amethyst ?). No moly noted. 97.5-100.6m (320'-330') - No fluorite noted. 100.6-106.7m (330'-350') - K-feldspar (1-2%).						

# UNION OIL COMPANY OF CANADA LTD

## PERCUSSION DRILL LOG

ELEVATION 1255m (4116 Ft.)

AZIMUTH \_\_\_\_\_

INCLINATION -90 deg

TOTAL DEPTH 106.7m (350 Ft.)

PERCUSSION  
DRILLING

DRILLED BY AL MILLER

DATE STARTED SEPT 8/79

DATE COMPLETED SEPT 8/79

LOGGED BY R. Falls

PROPERTY CARMI MOLY  
HOLE No. 79-P-109  
COORDINATES 106+00E/98+50N

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
0-3.0	0 - 10	OVERBURDEN	3400	3.0-6.1	10-20	3.05	10	0.004
			3401	6.1-9.1	20-30	3.05	10	0.012
3.0-6.1	10 - 20	PARTIAL OVERBURDEN	3402	9.1-12.2	30-40	3.05	10	0.005
		Grey. weathered chips. Plagioclase, k-feldspar, quartz, biotite, epidote, tr. sericite, tr. pyrite, tr. magnetite.	3403	12.2-15.2	40-50	3.05	10	0.005
			3404	15.2-18.3	50-60	3.05	10	0.008
			3405	18.3-21.3	60-70	3.05	10	0.015
6.1-9.1	20 - 30	NELSON QUARTZ DIORITE	3406	21.3-24.4	70-80	3.05	10	0.006
		Grey. Coarse-grained. Plagioclase, k-feldspar (5%), quartz (5%), epidote (5%), biotite and hornblende (3-5%), chlorite (1%), tr. pyrite, tr. magnetite, tr. molybdenite.	3407	24.4-27.4	80-90	3.05	10	0.003
			3408	27.4-30.4	90-100	3.05	10	0.002
			3409	30.4-33.5	100-110	3.05	10	0.003
			3410	33.5-36.6	110-120	3.05	10	0.002
9.1-12.2	30 - 40	LEUCOCRATIC QUARTZ MONZONITE STOCK	3411	36.6-39.6	120-130	3.05	10	0.003
		Light grey to white. Plagioclase, quartz (10-15%), k-feldspar (3-5%), biotite (1%), sericite (0.5%), tr. epidote, tr. pyrite.	3412	39.6-42.7	130-140	3.05	10	0.001
			3413	42.7-45.7	140-150	3.05	10	0.001
			3414	45.7-48.8	150-160	3.05	10	0.002
12.2-15.2	40 - 50	NELSON DIORITE	3415	48.8-51.8	160-170	3.05	10	0.002
		Grey. Plagioclase, biotite (5-8%), quartz (3-4%), k-feldspar (3%), epidote (1%), tr. sericite, tr. pyrite, tr. chlorite.	3416	51.8-54.9	170-180	3.05	10	0.001
			3417	54.9-57.9	180-190	3.05	10	0.001
			3418	57.9-61.0	190-200	3.05	10	0.002
15.2-106.7	50 - 350	LEUCOCRATIC QUARTZ MONZONITE STOCK	3419	61.0-64.0	200-210	3.05	10	0.001
		White. Plagioclase, quartz (10%), biotite (2%), k-feldspar (1-2%), sericite (0.5%), tr. epidote, tr. pyrite.	3420	64.0-67.1	210-220	3.05	10	0.001
		18.3-21.3m (60'-70') - k-feldspar (3-5%), sericite (1-2%), biotite (0.5-1%), tr. magnetite, tr. molybdenite.	3421	67.1-70.1	220-230	3.05	10	0.002
		21.3-27.4m (70'-90') - No moly. noted. Sericite (0.5-1%).	3422	70.1-73.2	230-240	3.05	10	0.001
		27.4-30.4m (90'-100') - tr. moly.	3423	73.2-76.2	240-250	3.05	10	0.001
		30.4-36.6m (100'-120') - No moly noted.	3424	76.2-79.2	250-260	3.05	10	0.001
		36.6-39.6m (120'-130') - k-feldspar (1%).	3425	79.2-82.3	260-270	3.05	10	0.002
		39.6-67.1m (130'-220') - k-feldspar (tr.-1%).	3426	82.3-85.3	270-280	3.05	10	0.004
		67.1-73.2m (220'-240') - k-feldspar (1-2%).	3427	85.3-88.4	280-290	3.05	10	0.003
		73.2-91.4m (240'-300') - k-feldspar (0.5-1%).	3428	88.4-91.4	290-300	3.05	10	0.002
		91.4-100.6m (300'-330') - k-feldspar (1-2%).	3429	91.4-94.5	300-310	3.05	10	0.002
		100.6-103.6m (330'-340') - k-feldspar (<1%).	3430	94.5-97.5	310-320	3.05	10	0.002
		103.6-106.7m (340'-350') - k-feldspar (1%).	3431	97.5-100.6	320-330	3.05	10	0.001
			3432	100.6-103.6	330-340	3.05	10	0.001
			3433	103.6-106.7	340-350	3.05	10	0.002

# UNION OIL COMPANY OF CANADA LTD

## PERCUSSION DRILL LOG

PROPERTY CARMI MOLY  
 HOLE No. 79-P-113  
 COORDINATES 103+50E/98+50N

ELEVATION 1285m (4217 ft.)  
 AZIMUTH \_\_\_\_\_  
 INCLINATION -90 deg  
 TOTAL DEPTH 106.7m (350 ft.)

PERCUSSION  
 DRILLED BY AL. HILLER DRILLING  
 DATE STARTED SEPT 9/79  
 DATE COMPLETED SEPT 9/79  
 LOGGED BY R. Falls

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
0-3.0	0 - 10	OVERBURDEN	3497	3.0-6.1	10-20	3.05	10	0.003
			3498	6.1-9.1	20-30	3.05	10	0.001
1.0-6.1	10 - 20	PARTIAL OVERBURDEN	3499	9.1-12.2	30-40	3.05	10	0.003
		Light grey. Weathered chips. Plagioclase, quartz, chlorite,	3500	12.2-15.2	40-50	3.05	10	0.001
		biotite, epidote, k-feldspar, tr. sericite, tr. pyrite, tr.	3501	15.2-18.3	50-60	3.05	10	0.003
		magnetite, tr. garnet (?).	3502	18.3-21.3	60-70	3.05	10	0.001
			3503	21.3-24.4	70-80	3.05	10	0.071
6.1-9.1	20 - 30	NELSON DIORITE OR SPECKLED GRANODIORITE DYKE	3504	24.4-27.4	80-90	3.05	10	0.033
		Light grey. Plagioclase, quartz (>5%), biotite (2-3%),	3505	27.4-30.4	90-100	3.05	10	0.014
		chlorite (2-3%), epidote (2-3%), k-feldspar (1%), tr. magnetite	3506	30.4-33.5	100-110	3.05	10	0.013
		tr. pyrite.	3507	33.5-36.6	110-120	3.05	10	0.029
			3508	36.6-39.6	120-130	3.05	10	0.004
9.1-15.2	30 - 50	NELSON DIORITE	3509	39.6-42.7	130-140	3.05	10	0.004
		Grey. Plagioclase, biotite (4-6%), epidote (3-4%), quartz	3510	42.7-45.7	140-150	3.05	10	0.004
		(2-3%), chlorite (2-3%), k-feldspar (2%), tr. magnetite, tr.	3511	45.7-48.8	150-160	3.05	10	0.006
		pyrite.	3512	48.8-51.8	160-170	3.05	10	0.005
		12.2-15.2m (40'-50') - Slightly lighter grey. K-feldspar (5%),	3513	51.8-54.9	170-180	3.05	10	0.007
		biotite (1%), chlorite (3%), sericite (1%), tr. fluorite	3514	54.9-57.9	180-190	3.05	10	0.005
		(amethyst ?).	3515	57.9-61.0	190-200	3.05	10	0.002
			3516	61.0-64.0	200-210	3.05	10	0.012
15.2-21.3	50 - 70	LEUCOCRATIC QUARTZ MONZONITE	3517	64.0-67.1	210-220	3.05	10	0.004
		Greyish white. Plagioclase, quartz (15-20%), k-feldspar (10-15%),	3518	67.1-70.1	220-230	3.05	10	0.004
		chlorite (3-4%), epidote (3-4%), biotite (1-2%), tr. pyrite,	3519	70.1-73.2	230-240	3.05	10	0.005
		tr. sericite, tr. magnetite.	3520	73.2-76.2	240-250	3.05	10	0.010
		18.3-21.3m (60'-70') - Quartz (>20%), k-feldspar (7-10%),	3521	76.2-79.2	250-260	3.05	10	0.003
		chlorite (2%), epidote (1%), biotite (<1%).	3522	79.2-82.3	260-270	3.05	10	0.001
			3523	82.3-85.3	270-280	3.05	10	0.009
			3524	85.3-88.4	280-290	3.05	10	0.003
21.3-39.6	70 - 130	NELSON DIORITE	3525	88.4-91.4	290-300	3.05	10	0.007
		Light grey. Plagioclase, chlorite (5-7%), quartz (>5%),	3526	91.4-94.5	300-310	3.05	10	0.003
		k-feldspar (5%), epidote (3%), biotite (2%), sericite (<1%),	3527	94.5-97.5	310-320	3.05	10	0.004
		tr. pyrite, tr. magnetite, tr. molybdenite.	3528	97.5-100.6	320-330	3.05	10	0.004
		24.4-27.4m (80'-90') - Quartz (5-10%), chlorite (5-10%), epidote	3529	100.6-103.7	330-340	3.05	10	0.003
		(4%), pyrite (0.5-1%), tr. fluorite (amethyst ?).	3530	103.7-106.7	340-350	3.05	10	0.002
		27.4-30.4m (90'-100') - k-feldspar (10%), chlorite (7-10%),						
		pyrite (<1%), tr. sericite. No moly noted.						
		30.4-33.5m (100'-110') - Chlorite (10%), k-feldspar (5-7%).						

UNION OIL COMPANY OF CANADA LTD  
PERCUSSION DRILL LOG

PROPERTY \_\_\_\_\_  
HOLE No. 79-P-113 Cont.  
COORDINATES \_\_\_\_\_

ELEVATION \_\_\_\_\_  
AZIMUTH \_\_\_\_\_  
INCLINATION \_\_\_\_\_  
TOTAL DEPTH \_\_\_\_\_

DRILLED BY \_\_\_\_\_  
DATE STARTED \_\_\_\_\_  
DATE COMPLETED \_\_\_\_\_  
LOGGED BY \_\_\_\_\_

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
		epidote (5%). No fluorite noted.						
		31.5-36.6m (110'-120') - K-feldspar (3-5%), tr. pyrite,						
		36.6-39.6m (120'-130') - Lighter grey than above. Transition						
		Zone. Quartz (10%), chlorite (5%), epidote (1%).						
39.6-42.7	130 - 140	LEUCOCRATIC QUARTZ MONZONITE						
		White. Plagioclase, quartz (20%), chlorite (2%), k-feldspar (2%),						
		epidote (1%), biotite (<1%), tr. sericite, tr. pyrite, tr.						
		magnetite.						
		42.7-45.7m (140'-150') - Transition zone. Increasing chlorite						
		k-feldspar. Very slightly darker colour.						
42.7-54.9	140 - 180	NELSON DIORITE						
		Grey. Plagioclase, chlorite (7-10%), k-feldspar (4-5%), quartz						
		(<5% ?), epidote (3-4%), tr. sericite, tr. pyrite, tr. mag-						
		netite.						
		48.8-51.8m (160'-170') - Quartz (5-10%), chlorite (5-7%),						
		k-feldspar (5%),						
		51.8-54.9m (170'-180') - Biotite (5-7%), chlorite (<3%), k-feld-						
		spar (<2%), tr. amethyst.						
54.9-82.3	180 - 220	LEUCOCRATIC QUARTZ MONZONITE STOCK						
		White. Plagioclase, quartz (>20%), k-feldspar (2-4%), chlorite						
		(1%), tr. epidote, tr. biotite, tr. sericite, tr. magnetite, tr.						
		pyrite.						
		57.9-61.0m (190'-200') - k-feldspar (>10%), sericite (0.5%),						
		tr. chlorite.						
		61.0-64.0m (200'-210') - K-feldspar (7-10%), chlorite (1%).						
		64.0-67.1m (210'-220') - K-feldspar (3%), chlorite (<1%).						
		67.1-70.1m (220'-230') - Slightly greyer in colour. Chlorite						
		(3%), k-feldspar (1-2%).						
		70.1-73.2m (230'-240') - Lighter coloured than above. Similar						
		to 54.9-67.1m. K-feldspar (3-4%), chlorite (3-4%).						
		73.2-76.2m (240'-250') - K-feldspar (2-3%), chlorite (<1%).						
		76.2-79.2m (250'-260') - K-feldspar (3-4%).						
		79.2-82.3m (260'-270') - K-feldspar (1%).						



# UNION OIL COMPANY OF CANADA LTD

## PERCUSSION DRILL LOG

ELEVATION 1280m (4200ft.)

AZIMUTH \_\_\_\_\_

INCLINATION -90 deg

TOTAL DEPTH 106.7m (350 ft.)

PERCUSSION  
DRILLING:

DRILLED BY AL MILLER

DATE STARTED SEPT 9/79

DATE COMPLETED SEPT 9/79

LOGGED BY R. Falls

PROPERTY CARMI MOLY  
HOLE No. 79-P-114  
COORDINATES 103+50E/99+50N

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
0 - 3.0	0 - 10	OVERBURDEN	3463	3.0-6.1	10-20	3.05	10	0.005
			3464	6.1-9.1	20-30	3.05	10	0.004
3.0 - 6.1	10 - 20	PARTIAL OVERBURDEN	3465	9.1-12.2	30-40	3.05	10	0.010
		Brown. Weathered chips. Plagioclase, quartz, k-feldspar,	3466	12.2-15.2	40-50	3.05	10	0.010
		biotite, sericite, chlorite, epidote, tr. magnetite, tr. pyrite.	3467	15.2-18.3	50-60	3.05	10	0.007
			3468	18.3-21.3	60-70	3.05	10	0.055
6.1 - 12.2	20 - 40	LEUCOCRATIC QUARTZ MONZONITE STOCK OR PEGMATIC DYKE	3469	21.3-24.4	70-80	3.05	10	0.004
		Greyish white. Plagioclase, quartz (10-20%), biotite (1%),	3470	24.4-27.4	80-90	3.05	10	0.005
		chlorite (1%), epidote (0.5%), k-feldspar (<1%), tr. sericite,	3471	27.4-30.4	90-100	3.05	10	0.007
		tr. pyrite, tr. magnetite,	3472	30.4-33.5	100-110	3.05	10	0.001
		9.1-12.2m (30'-40') - k-feldspar (5-6%), chlorite (1-2%).	3473	33.5-36.6	110-120	3.05	10	0.023
			3474	36.6-39.6	120-130	3.05	10	0.031
12.2-18.3	40 - 60	NELSON DIORITE OR VALHALLA QUARTZ MONZONITE	3475	39.6-42.7	130-140	3.05	10	0.012
		Grey. Plagioclase, biotite (4-5%), k-feldspar (3-4%), quartz	3476	42.7-45.7	140-150	3.05	10	0.011
		(2-4%), chlorite (1-2%), epidote (1-2%), sericite (1%), tr.	3477	45.7-48.8	150-160	3.05	10	0.002
		pyrite, tr. magnetite,	3478	48.8-51.8	160-170	3.05	10	0.018
			3479	51.8-54.9	170-180	3.05	10	0.019
18.3-33.5	60 - 110	VALHALLA QUARTZ MONZONITE (?)	3480	54.9-57.9	180-190	3.05	10	0.042
		Light grey. Plagioclase, quartz (10%), k-feldspar (3-4%),	3481	57.9-61.0	190-200	3.05	10	0.027
		biotite (2-3%), chlorite (2-3%), epidote (2%), pyrite (1-2%),	3482	61.0-64.0	200-210	3.05	10	0.022
		tr. sericite, tr. magnetite, tr. molybdenite,	3483	64.0-67.1	210-220	3.05	10	0.011
		21.3-24.4m (70'-80') - Epidote (5%), tr. pyrite, tr. garnet. No	3484	67.1-70.1	220-230	3.05	10	0.016
		moly. noted.	3485	70.1-73.2	230-240	3.05	10	0.006
		24.4-27.4m (80'-90') - No garnet noted.	3486	73.2-76.2	240-250	3.05	10	0.007
		27.4-30.4m (90'-100') - k-feldspar (5-7%), epidote (3-5%),	3487	76.2-79.2	250-260	3.05	10	0.009
		biotite (<1%).	3488	79.2-82.3	260-270	3.05	10	0.012
		30.4-33.5m (100'-110') - k-feldspar (10%).	3489	82.3-85.3	270-280	3.05	10	0.004
			3490	85.3-88.4	280-290	3.05	10	0.019
33.5-54.9	110 - 180	NELSON DIORITE (?) / BRECCIA ZONE (?)	3491	88.4-91.4	290-300	3.05	10	0.009
		Grey. Plagioclase, k-feldspar (3-4%), chlorite (3%), epidote	3492	91.4-94.5	300-310	3.05	10	0.018
		(2-3%), biotite (2%), quartz (1-4%), tr. pyrite, tr. magnetite,	3493	94.5-97.5	310-320	3.05	10	0.004
		36.6-39.6m (120'-130') - Slightly lighter grey. Chlorite	3494	97.5-100.6	320-330	3.05	10	0.004
		(3-5%), biotite (0.5-1%).	3495	100.6-103.6	330-340	3.05	10	0.001
		39.6-42.7m (130'-140') - Epidote (5%),	3496	103.6-106.7	340-350	3.05	10	0.002
		42.7-45.7m (140'-150') - Chlorite (5-7%), tr. molybdenite,						
		45.7-51.8m (150'-170') - Slightly lighter grey. k-feldspar						

UNION OIL COMPANY OF CANADA LTD  
PERCUSSION DRILL LOG

PROPERTY \_\_\_\_\_  
HOLE No. 79-P-114 Cont.  
COORDINATES \_\_\_\_\_

ELEVATION \_\_\_\_\_  
AZIMUTH \_\_\_\_\_  
INCLINATION \_\_\_\_\_  
TOTAL DEPTH \_\_\_\_\_

DRILLED BY \_\_\_\_\_  
DATE STARTED \_\_\_\_\_  
DATE COMPLETED \_\_\_\_\_  
LOGGED BY \_\_\_\_\_

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
		(5-7%), quartz (5-7%), epidote (3%), no moly noted, 51.8-54.9m (170'-180') - Chlorite (4-5%).						
54.9-61.0	180 - 200	BRECCIA ZONE (?) Light grey. Plagioclase, quartz (5-10%), chlorite (4-5%), k-feldspar (3%), epidote (1%), biotite (<1%), tr. pyrite, tr. molybdenite. 57.9-61.0m (190'-200') - Biotite (1-2%).						
61.0-64.0	200 - 210	PEGMATITE DYKE (?) White. Plagioclase, quartz (15-20%), k-feldspar (5-7%), chlorite (2%), epidote (<1%), tr. biotite, tr. pyrite, tr. sericite.						
64.0-85.3	210 - 280	NELSON DIORITE (?) / BRECCIA ZONE (?) Grey. Plagioclase, quartz (5-10%), chlorite (4-5%), k-feldspar (3%), biotite (1-2%), epidote (0.5-1%), tr. pyrite, tr. sericite, tr. magnetite. 67.1-70.1m (220'-230') - k-feldspar (4-6%), epidote (3%), 70.1-73.2m (230'-240') - k-feldspar (5-7%), 73.2-76.2m (240'-250') - Quartz (3-6%), k-feldspar (3-4%), biotite (3-5%), epidote (2%), chlorite (1-2%), tr. molybdenite. 76.2-79.2m (250'-260') - No moly noted. 79.2-82.3m (260'-270') - k-feldspar (2-3%), epidote (2-3%), 82.3-85.3m (270'-280') - Epidote (3-5%), chlorite (3-4%).						
85.3-88.4	280 - 290	TRANSITION TO LEUCOCRATIC QUARTZ MONZONITE STOCK						
88.4-91.4	290 - 300	LEUCOCRATIC QUARTZ MONZONITE STOCK White. Plagioclase, quartz (15-20%), k-feldspar (2-3%), chlorite (2-3%), biotite (<0.5%), tr. epidote, tr. magnetite, tr. sericite, tr. pyrite, tr. molybdenite.						
91.4-97.5	300 - 320	NELSON QUARTZ DIORITE Grey. Plagioclase, quartz (5-10%), k-feldspar (5-6%), chlorite (2-3%), biotite (2-3%), epidote (1%), sericite (0.5-1%), tr.						

UNION OIL COMPANY OF CANADA LTD  
PERCUSSION DRILL LOG

PROPERTY \_\_\_\_\_  
HOLE No. 79-P-114 Cont.  
COORDINATES \_\_\_\_\_

ELEVATION \_\_\_\_\_  
AZIMUTH \_\_\_\_\_  
INCLINATION \_\_\_\_\_  
TOTAL DEPTH \_\_\_\_\_

DRILLED BY \_\_\_\_\_  
DATE STARTED \_\_\_\_\_  
DATE COMPLETED \_\_\_\_\_  
LOGGED BY \_\_\_\_\_

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
		pyrite, tr. magnetite. 94.5-97.5m (310'-320') - Biotite (5-6%), k-feldspar (2-3%), epidote (1-2%).						
97.5-106.7	320 - 350	LEUCOCRATIC QUARTZ MONZONITE STOCK Similar to 88.4-91.4m. White. Plagioclase, quartz (15-20%), k-feldspar (3%), chlorite (1-2%), sericite (1-2%), biotite ( $<1\%$ ), epidote ( $<1\%$ ), tr. pyrite, tr. magnetite, 100.6-103.6m (330'-340') - chlorite (1%), sericite ( $<0.5-1\%$ ), tr. biotite, tr. epidote. 103.6-106.7m (340'-350') - K-feldspar (4%), sericite (1-2%).						



# UNION OIL COMPANY OF CANADA LTD

## PERCUSSION DRILL LOG

PROPERTY CARMI HOLY  
 HOLE No. 79-P-121  
 COORDINATES 102+00E/97+60N

ELEVATION 1305m (4282 Ft.)  
 AZIMUTH \_\_\_\_\_  
 INCLINATION -90 deg  
 TOTAL DEPTH 106.7m (350 Ft.)

PERCUSSION  
 DRILLING  
 DRILLED BY AL MILLER  
 DATE STARTED SEPT 10/79  
 DATE COMPLETED SEPT 10/79  
 LOGGED BY R. Falls

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
0 - 6.1	0 - 20	OVERBURDEN	3561	6.1-9.1	20-30	3.05	10	0.001
6.1 - 12.2	20 - 40	PEGMATITE DYKE	3562	9.1-12.2	30-40	3.05	10	0.001
		Buff white. Plagioclase, quartz (10-20%), k-feldspar (10-15%), chlorite (1%), tr. epidote, tr. sericite.	3563	12.2-15.2	40-50	3.05	10	0.001
		9.1-12.2m (30'-40') - Biotite (0.5%), epidote (0.5%), sericite (0.5%).	3564	15.2-18.3	50-60	3.05	10	0.001
			3565	18.3-21.3	60-70	3.05	10	0.001
			3566	21.3-24.4	70-80	3.05	10	0.001
			3567	24.4-27.4	80-90	3.05	10	0.001
12.2 - 30.4	40 - 100	NELSON DIORITE	3568	27.4-30.4	90-100	3.05	10	0.001
		Light grey. Plagioclase, quartz (5-10%), k-feldspar (5-7%), chlorite (2-3%), epidote (0.5-1%), tr. sericite, tr. pyrite, tr. magnetite.	3569	30.4-33.5	100-110	3.05	10	0.001
		15.2-18.3m (50'-60') - k-feldspar (3-5%), biotite (3%), epidote (2-3%), chlorite (2-3%), quartz (1-3%), tr. pyrite, tr. magnetite.	3570	33.5-36.6	110-120	3.05	10	0.001
		18.3-21.3m (60'-70') - k-feldspar (5-6%), biotite (4-5%).	3571	36.6-39.6	120-130	3.05	10	0.001
		21.3-24.4m (70'-80') - Biotite (5-6%), epidote (4%).	3572	39.6-42.7	130-140	3.05	10	0.001
		24.4-30.4m (80'-100') - Slightly lighter grey. Quartz (3-5% ?)	3573	42.7-45.7	140-150	3.05	10	0.001
		Transition Zone ?	3574	45.7-48.8	150-160	3.05	10	0.001
			3575	48.8-51.8	160-170	3.05	10	0.001
			3576	51.8-54.9	170-180	3.05	10	0.001
			3577	54.9-57.9	180-190	3.05	10	0.001
			3578	57.9-61.0	190-200	3.05	10	0.001
			3579	61.0-64.0	200-210	3.05	10	0.001
30.4 - 54.9	100 - 180	ALTERED NELSON DIORITE OR VALHALLA QUARTZ MONZONITE	3580	64.0-67.1	210-220	3.05	10	0.005
		Light grey. Plagioclase, k-feldspar (5-10%), quartz (>5%), epidote (3%), chlorite (2-3%), biotite (2%), tr. pyrite, tr. magnetite, tr. sericite.	3581	67.1-70.1	220-230	3.05	10	0.007
		36.6-39.6m (120'-130') - k-feldspar (4-5%), chlorite (1-2%), biotite (1%).	3582	70.1-73.2	230-240	3.05	10	0.004
		39.6-42.7m (130'-140') - Epidote (3-5%), chlorite (3-5%), biotite (<1%).	3583	73.2-76.2	240-250	3.05	10	0.002
		42.7-51.8m (140'-170') - Lighter grey. K-feldspar (3%)	3584	76.2-79.2	250-260	3.05	10	0.002
		51.8-54.9m (170'-180') - Slightly darker grey. Chlorite (3%), biotite (2%), k-feldspar (1%).	3585	79.2-82.3	260-270	3.05	10	0.014
			3586	82.3-85.3	270-280	3.05	10	0.007
			3587	85.3-88.4	280-290	3.05	10	0.006
			3588	88.4-91.4	290-300	3.05	10	0.006
			3589	91.4-94.5	300-310	3.05	10	0.010
			3590	94.5-97.5	310-320	3.05	10	0.004
			3591	97.5-100.6	320-330	3.05	10	0.008
54.9 - 82.3	180 - 270	VALHALLA QUARTZ MONZONITE ? OR LEUCOCRATIC QUARTZ MONZONITE ?	3592	100.6-103.6	330-340	3.05	10	0.004
		Light grey. Plagioclase, quartz (10-20%), k-feldspar (5-6%), epidote (1%), biotite and chlorite (1%), tr. sericite, tr. pyrite, tr. magnetite.	3593	103.6-106.7	340-350	3.05	10	0.002
		57.9-64.0m (190'-210') - Chlorite (3%), epidote (<1%), tr. biotite.						

**UNION OIL COMPANY OF CANADA LTD  
PERCUSSION DRILL LOG**

PROPERTY \_\_\_\_\_  
HOLE No. 79-P-121 Cont.  
COORDINATES \_\_\_\_\_

ELEVATION \_\_\_\_\_  
AZIMUTH \_\_\_\_\_  
INCLINATION \_\_\_\_\_  
TOTAL DEPTH \_\_\_\_\_

DRILLED BY \_\_\_\_\_  
DATE STARTED \_\_\_\_\_  
DATE COMPLETED \_\_\_\_\_  
LOGGED BY \_\_\_\_\_

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
		64.0-67.1m (210'-220') - Buff white. K-feldspar (10-12%), chlorite (4%).						
		67.1-73.2m (220'-240') - k-feldspar (15-20%), chlorite (4-6%), epidote (1-2%), sericite (0.5-1%).						
		73.2-82.3m (240'-270') - K-feldspar (10-12%).						
82.2-106.7	270 - 350	<b>LEUCOCRATIC QUARTZ MONZONITE STOCK</b> Greyish white. Plagioclase, quartz (15-20%), k-feldspar (7%), chlorite (3%), epidote (0.5-1%), tr. sericite, tr. pyrite, tr. magnetite.						
		85.3-88.4m (280'-290') - K-feldspar (10%), chlorite (2%), tr. biotite.						
		88.4-94.5m (290'-310') - Chlorite (2-3%).						
		94.5-97.5m (310'-320') - K-feldspar (5%).						
		97.5-100.6m (320'-330') - K-feldspar (7%).						
		100.6-103.6m (330'-340') - K-feldspar (7-10%).						
		103.6-106.7m (340'-350') - Biotite (1%).						

**UNION OIL COMPANY OF CANADA LTD  
PERCUSSION DRILL LOG**

ELEVATION 1310m (4300 Ft.)  
AZIMUTH \_\_\_\_\_  
INCLINATION -90 deg  
TOTAL DEPTH 91.4m (300 Ft.)

PERCUSSION  
DRILLING

PROPERTY CARMI HOLY  
HOLE No. 79-P-126  
COORDINATES 100+00E/97+60N

DRILLED BY AL MILLER  
DATE STARTED SEPT 11/79  
DATE COMPLETED SEPT 11/79  
LOGGED BY R. FILLB

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
0 - 3.0	0 - 10	OVERBURDEN	3594	3.0-6.1	10-20	3.05	10	0.001
			3595	6.1-9.1	20-30	3.05	10	0.001
3.0-9.1	10 - 30	PARTIAL BURDEN	3596	9.1-12.2	30-40	3.05	10	0.001
		Light brown. Weathered chips. Plagioclase, quartz, k-feldspar, biotite, epidote.	3597	12.2-15.2	40-50	3.05	10	0.001
			3598	15.2-18.3	50-60	3.05	10	0.001
			3599	18.3-21.3	60-70	3.05	10	0.001
9.1-12.2	30 - 40	PEGMATITE DYKE (?) OR LEUCOCRATIC QUARTZ MONZONITE STOCK (?)	3600	21.3-24.4	70-80	3.05	10	0.002
		White. Mainly plagioclase, k-feldspar (5%), quartz (2-3%), biotite (2%), epidote (1-2%), tr. sericite, tr. pyrite.	3601	24.4-27.4	80-90	3.05	10	0.001
			3602	27.4-30.4	90-100	3.05	10	0.001
			3603	30.4-33.5	100-110	3.05	10	0.001
12.2-18.3	40 - 60	NELSON DIORITE	3604	33.5-36.6	110-120	3.05	10	0.001
		Light grey. Plagioclase, biotite (3-4%), k-feldspar (3-4%), epidote (3%), quartz (<1%).	3605	36.6-39.6	120-130	3.05	10	0.001
		15.2-18.3m (50'-60') - Epidote (5-7%).	3606	39.6-42.7	130-140	3.05	10	0.004
			3607	42.7-45.7	140-150	3.05	10	0.001
			3608	45.7-48.8	150-160	3.05	10	0.002
18.3-30.4	60 - 100	VALHALLA QUARTZ MONZONITE (?)	3609	48.8-51.8	160-170	3.05	10	0.002
		Light grey (lighter than above). Plagioclase, k-feldspar (5-12%), quartz (5% ?), biotite (3-4%), epidote (3-4%), tr. sericite, tr. pyrite + tr. magnetite.	3610	51.8-54.9	170-180	3.05	10	0.002
			3611	54.9-57.9	180-190	3.05	10	0.001
			3612	57.9-61.0	190-200	3.05	10	0.001
			3613	61.0-64.0	200-210	3.05	10	0.007
30.4-45.7	100 - 150	LEUCOCRATIC QUARTZ MONZONITE STOCK	3614	64.0-67.1	210-220	3.05	10	0.003
		White. Similar to 9.1-12.2m. Plagioclase, quartz (3-5%), k-feldspar (2%), biotite (2%), epidote (2%), tr. pyrite, tr. sericite, tr. magnetite.	3615	67.1-70.1	220-230	3.05	10	0.002
		33.5-36.6m (110'-120') - k-feldspar (5-6%), sericite (1%).	3616	70.1-73.2	230-240	3.05	10	0.002
		36.6-39.6m (120'-130') - tr. sericite.	3617	73.2-76.2	240-250	3.05	10	0.001
		39.6-42.7m (130'-140') - k-feldspar (8-10%).	3618	76.2-79.2	250-260	3.05	10	0.001
		42.7-45.7m (140'-150') - k-feldspar (3-5%), biotite (3-5%), epidote (3-4%). Transition to Nelson Quartz Diorite.	3619	79.2-82.3	260-270	3.05	10	0.007
			3620	82.3-85.3	270-280	3.05	10	0.010
			3621	85.3-88.4	280-290	3.05	10	0.001
			3622	88.4-91.4	290-300	3.05	10	0.003
45.7-57.9	150 - 190	NELSON QUARTZ DIORITE						
		Light grey. Plagioclase, biotite (5%), quartz (5% ?), epidote (5%), k-feldspar (1-2%), tr. magnetite, tr. pyrite.						
		51.8-54.9m (170'-180') - Slightly lighter grey.						
		54.9-57.9m (180'-190') - Biotite (5-8%), epidote (5-7%), tr. sericite.						

**UNION OIL COMPANY OF CANADA LTD**  
**PERCUSSION DRILL LOG**

PROPERTY \_\_\_\_\_  
HOLE No. 79-P-126 Cont.  
COORDINATES \_\_\_\_\_

ELEVATION \_\_\_\_\_  
AZIMUTH \_\_\_\_\_  
INCLINATION \_\_\_\_\_  
TOTAL DEPTH \_\_\_\_\_

DRILLED BY \_\_\_\_\_  
DATE STARTED \_\_\_\_\_  
DATE COMPLETED \_\_\_\_\_  
LOGGED BY \_\_\_\_\_

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
57.9-61.0	190 - 200	LEUCOCRATIC QUARTZ MONZONITE STOCK (?) Light grey to white. Plagioclase, quartz (5-10%), k-feldspar (3-5%), biotite (1-2%), epidote (1-2%), chlorite (1-2%), tr. pyrite, tr. magnetite.						
61.0-64.0	200 - 210	NELSON DIORITE (?) Slightly darker grey than above Leuco. Stock. Plagioclase, biotite and chlorite (5%), epidote (5%), k-feldspar (2%), tr. sericite, tr. pyrite, tr. magnetite.						
64.0-91.4	210 - 300	ALTERED NELSON QUARTZ DIORITE (?) Light grey. Plagioclase, quartz (5%), epidote (3-4%), biotite (2-3%), chlorite (1-2%), k-feldspar (2%), tr. pyrite, tr. magnetite. 79.2-82.3m (260'-270') - Slightly lighter grey than above. k-feldspar (3-4%), epidote (3%), tr. sericite. 82.3-85.3m (270'-280') - Slightly darker grey than above. Biotite (3-4%), chlorite (1-2%), sericite (1%), k-feldspar (1%). 85.3-91.4m (280'-300') - Epidote (3-4%), chlorite (2-3%), sericite (<1%).						

**UNION OIL COMPANY OF CANADA LTD  
PERCUSSION DRILL LOG**

ELEVATION 1345m (4413 ft.)  
AZIMUTH \_\_\_\_\_  
INCLINATION -90 deg  
TOTAL DEPTH 106.7m (350 ft.)

PROPERTY CARMICHAEL  
HOLE No. 79-P-127  
COORDINATES 94+00E/99+00N

PERCUSSION  
DRILLED BY M. MILLER DRILLING  
DATE STARTED SEPT 20/79  
DATE COMPLETED SEPT 20/79  
LOGGED BY R. Falls

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
0 - 3.0	0 - 10	OVERBURDEN	3759	3.0-6.1	10-20	3.05	10	0.001
			3760	6.1-9.1	20-30	3.05	10	0.001
3.0 - 106.7	10 - 350	NELSON DIORITE	3761	9.1-12.2	30-40	3.05	10	0.001
		Grey. Plagioclase, biotite (5-8%), epidote (2-4%), quartz (1-3%), k-feldspar (0.5-2%), chlorite (0.5-1%), tr. sericite, ± tr. magnetite.	3762	12.2-15.2	40-50	3.05	10	0.001
			3763	15.2-18.3	50-60	3.05	10	0.002
			3764	18.3-21.3	60-70	3.05	10	0.001
		9.1-12.2m (30'-40') - Minor hornblende, tr. pyrite, tr. garnet?	3765	21.3-24.4	70-80	3.05	10	0.002
		12.2-21.3m (40'-70') - No garnet noted.	3766	24.4-27.4	80-90	3.05	10	0.002
		21.3-27.4m (70'-90') - k-feldspar (0.5%).	3767	27.4-30.4	90-100	3.05	10	0.001
		27.4-36.6m (90'-120') - k-feldspar (0.5-1%).	3768	30.4-33.5	100-110	3.05	10	0.005
		36.6-45.7m (120'-150') - k-feldspar (0.5%).	3769	33.5-36.6	110-120	3.05	10	0.002
		45.7-48.8m (150'-160') - tr. unidentified amber colour mineral.	3770	36.6-39.6	120-130	3.05	10	0.001
		48.8-70.1m (160'-230') - k-feldspar (0.5%).	3771	39.6-42.7	130-140	3.05	10	0.001
		70.1-73.2m (230'-240') - No significant k-feldspar.	3772	42.7-45.7	140-150	3.05	10	0.002
		73.2-79.2m (240'-260') - tr. k-feldspar.	3773	45.7-48.8	150-160	3.05	10	0.001
		79.2-82.3m (260'-270') - Clean sample (New drill bit or possible fault zone), Quartz (5%), biotite (4-5%), k-feldspar (3-4%), epidote (3-4%), chlorite (1%).	3774	48.8-51.8	160-170	3.05	10	0.002
			3775	51.8-54.9	170-180	3.05	10	0.001
		82.3-85.3m (270'-280') - Biotite (5-8%), epidote (2-4%), k-feldspar (2%), quartz (1-3%), tr. sericite, tr. pyrite, tr. mag.	3776	54.9-57.9	180-190	3.05	10	0.001
			3777	57.9-61.0	190-200	3.05	10	0.002
			3778	61.0-64.0	200-210	3.05	10	0.001
		85.3-91.4m (280'-300') - k-feldspar (0.5-1%).	3779	64.0-67.1	210-220	3.05	10	0.002
		91.4-94.5m (300'-310') - k-feldspar (0.5%).	3780	67.1-70.1	220-230	3.05	10	0.001
		94.5-106.7m (310'-350') - tr. k-feldspar.	3781	70.1-73.2	230-240	3.05	10	0.001
			3782	73.2-76.2	240-250	3.05	10	0.001
			3783	76.2-79.2	250-260	3.05	10	0.001
			3784	79.2-82.3	260-270	3.05	10	0.001
			3785	82.3-85.3	270-280	3.05	10	0.002
			3786	85.3-88.4	280-290	3.05	10	0.001
			3787	88.4-91.4	290-300	3.05	10	0.001
			3788	91.4-94.5	300-310	3.05	10	0.001
			3789	94.5-97.5	310-320	3.05	10	0.001
			3790	97.5-100.6	320-330	3.05	10	0.002
			3791	100.6-103.6	330-340	3.05	10	0.001
			3792	103.6-106.7	340-350	3.05	10	0.002

**UNION OIL COMPANY OF CANADA LTD  
PERCUSSION DRILL LOG**

PROPERTY CARMI HOLY  
HOLE No. 79-P-128  
COORDINATES 93+00E/100+00N

ELEVATION 1340m (4397 ft.)  
AZIMUTH \_\_\_\_\_  
INCLINATION -90 deg  
TOTAL DEPTH 106.7m (350 ft.)

PERCUSSION  
DRILLING  
DRILLED BY AL MILLER  
DATE STARTED SEPT 19/79  
DATE COMPLETED SEPT 20/79  
LOGGED BY R. Fallis

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
0 - 3.0	0 - 10	OVERBURDEN	3725	3.0-6.1	10-20	3.05	10	0.002
			3726	6.1-9.1	20-30	3.05	10	0.001
3.0-42.7	10 - 140	NELSON DIORITE	3727	9.1-12.2	30-40	3.05	10	0.001
		Dark grey. Plagioclase, biotite (10-12%), epidote (8-10%),	3728	12.2-15.2	40-50	3.05	10	0.002
		k-feldspar (1-2%), quartz (1-3%), sericite (<1%), tr. magnetite,	3729	15.2-18.3	50-60	3.05	10	0.001
		tr. pyrite.	3730	18.3-21.3	60-70	3.05	10	0.002
		6.1-9.1m (20'-30') - Slightly lighter grey. Epidote (10-12%),	3731	21.3-24.4	70-80	3.05	10	0.001
		biotite (8-10%), tr. k-feldspar, tr. sericite.	3732	24.4-27.4	80-90	3.05	10	0.001
		9.1-12.2m (30'-40') - k-feldspar (0.5-1%), chlorite (<0.5%),	3733	27.4-30.4	90-100	3.05	10	0.001
		12.2-18.3m (40'-60') - Slightly darker grey. Similar to 3.0-	3734	30.4-33.5	100-110	3.05	10	0.001
		6.1m. Biotite (10-12%), epidote (10-12%).	3735	33.5-36.6	110-120	3.05	10	0.001
		18.3-21.3m (60'-70') - Slightly lighter grey. Biotite (8%),	3736	36.6-39.6	120-130	3.05	10	0.002
		tr. k-feldspar.	3737	39.6-42.7	130-140	3.05	10	0.001
		21.3-24.4m (70'-80') - Similar to 12.2-18.3m. Biotite (10-12%),	3738	42.7-45.7	140-150	3.05	10	0.001
		epidote (10-12%), tr. k-feldspar.	3739	45.7-48.8	150-160	3.05	10	0.001
		24.4-27.4m (80'-90') - No significant k-feldspar.	3740	48.8-51.8	160-170	3.05	10	0.001
		27.4-33.5m (90'-100') - Lighter grey. Biotite (8%),	3741	51.8-54.9	170-180	3.05	10	0.001
		33.5-42.7m (100'-140') - Slightly darker. Biotite (10-12%),	3742	54.9-57.9	180-190	3.05	10	0.002
		epidote (10%).	3743	57.9-61.0	190-200	3.05	10	0.001
			3744	61.0-64.0	200-210	3.05	10	0.001
42.7-45.7	140-150	SPECKLED GRANODIORITE DYKE (?)	3745	64.0-67.1	210-220	3.05	10	0.001
		Light grey to white. Plagioclase, quartz (5-10%), biotite (3-	3746	67.1-70.1	220-230	3.05	10	0.001
		5%), k-feldspar (<1-1%), epidote (<1%), tr. sericite, tr.	3747	70.1-73.2	230-240	3.05	10	0.001
		magnetite.	3748	73.2-76.2	240-250	3.05	10	0.001
			3749	76.2-79.2	250-260	3.05	10	0.001
45.7-48.8	150-160	NELSON DIORITE	3750	79.2-82.3	260-270	3.05	10	0.002
		Dark grey. Plagioclase, biotite (10%), epidote (10%), quartz	3751	82.3-85.3	270-280	3.05	10	0.001
		(1-3%), tr. sericite, tr. magnetite, tr. pyrite, + chlorite.	3752	85.3-88.4	280-290	3.05	10	0.002
			3753	88.4-91.4	290-300	3.05	10	0.001
48.8-51.8	160-170	SPECKLED GRANODIORITE DYKE (?)	3754	91.4-94.5	300-310	3.05	10	0.001
		Similar to 42.7-45.7m. Lighter grey than above. Plagioclase,	3755	94.5-97.5	310-320	3.05	10	0.002
		quartz (5-10%), biotite (5%), epidote (2-3%), k-feldspar (2%),	3756	97.5-100.6	320-330	3.05	10	0.006
		tr. sericite, tr. magnetite, tr. pyrite.	3757	100.6-103.6	330-340	3.05	10	0.002
			3758	103.6-106.7	340-350	3.05	10	0.002
51.8-76.2	170-250	NELSON DIORITE						
		Similar to 45.7-48.8m. Also containing tr. k-feldspar.						

**UNION OIL COMPANY OF CANADA LTD**  
**PERCUSSION DRILL LOG**

PROPERTY \_\_\_\_\_  
HOLE No. 79-P-128 Cont.  
COORDINATES \_\_\_\_\_

ELEVATION \_\_\_\_\_  
AZIMUTH \_\_\_\_\_  
INCLINATION \_\_\_\_\_  
TOTAL DEPTH \_\_\_\_\_

DRILLED BY \_\_\_\_\_  
DATE STARTED \_\_\_\_\_  
DATE COMPLETED \_\_\_\_\_  
LOGGED BY \_\_\_\_\_

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
		54.9-76.2m (180'-250') - No significant k-feldspar, minor hornblende, ± tr. quartz.						
76.2-79.2	250-260	SPECKLED GRANODIORITE DYKE (?) White. Plagioclase, quartz (1-5%?), k-feldspar (2-3%), biotite (1-2%), epidote (0.5%), tr. sericite, tr. pyrite, tr. magnetite.						
79.2-106.7	260-350	NELSON DIORITE Similar to 45.7-48.8m 82.3-91.4m (270'-300') - Slightly lighter grey, tr. k-feldspar. 91.4-97.5m (300'-320') - No significant k-feldspar. 97.5-100.6m (320'-330') - tr. k-feldspar. Slight increase in sericite (tr.~0.5%). 100.6-106.7m (330'-350') - No significant k-feldspar, tr. sericite.						

**UNION OIL COMPANY OF CANADA LTD  
PERCUSSION DRILL LOG**

ELEVATION 1345M (4413 Ft)  
AZIMUTH \_\_\_\_\_  
INCLINATION -90°  
TOTAL DEPTH 106.7 M (350 Ft)

At Miller Percussion

PROPERTY Chevi Moly  
HOLE No. 79-P-129  
COORDINATES 93+00 E/101+00N

DRILLED BY Drilling  
DATE STARTED Sept. 19/79  
DATE COMPLETED Sept. 19/79  
LOGGED BY R. Falls

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% Mo3g
METRES	FEET			METRES	FEET	METRES	FEET	
0-3.0	0-10	OVERBURDEN	3691	3.0-6.1	10-20	3.05	10	0.002
3.0-15.2	10-50	NELSON DIORITE	3692	6.1-9.1	20-30	3.05	10	0.002
		Light grey. Plagioclase, biotite (3-6%), epidote (2-4%), chlorite (1-2%), k-feldspar (<1%), quartz (<1%), tr. sericite, tr. magnetite.	3693	9.1-12.2	30-40	3.05	10	0.001
		(30'-40') - Pyrite (0.5%), biotite (8%).	3694	12.2-15.2	40-50	3.05	10	0.003
		(40'-50') - Slightly lighter colour.	3695	15.2-18.3	50-60	3.05	10	0.002
			3696	18.3-21.3	60-70	3.05	10	0.001
			3697	21.3-24.4	70-80	3.05	10	0.001
15.2-18.3	50-60	LEUCOCRATIC QUARTZ MONZONITE STOCK	3698	24.4-27.4	80-90	3.05	10	0.001
		Light grey to white. Coarser grained than above. Mainly plagioclase and quartz. Biotite (1-2%), epidote (1%), sericite (0.5%), k-feldspar (<0.5%), tr. py., tr. mag., chlorite (2%).	3699	27.4-30.4	90-100	3.05	10	0.001
			3700	30.4-33.5	100-110	3.05	10	0.002
			3701	33.5-36.6	110-120	3.05	10	0.002
			3702	36.6-39.6	120-130	3.05	10	0.001
18.3-106.7	60-350	NELSON DIORITE	3703	39.6-42.7	130-140	3.05	10	0.001
		Light grey. Plagioclase, biotite (3-6%), epidote (2-4%), tr. sericite, tr. pyrite, ± tr. magnetite, no sig. k-feldspar, chlorite (1-2%).	3704	42.7-45.7	140-150	3.05	10	0.001
		24.4-27.4m (80'-90') ± tr. k-feldspar	3705	45.7-48.8	150-160	3.05	10	0.003
		27.4-30.4m (90'-100') - Lighter grey than above. Increased plagioclase, quartz. Biotite (1-2%), epidote (1-2%), k-feldspar (0.5%), py. (<0.5%), tr. mag. - Possible breccia zone or pegmatite dyke.	3706	48.8-51.8	160-170	3.05	10	0.001
		30.4-33.5m (100'-110') - Similar to Nelson Diorite from 18.3-27.4m but k-feldspar (0.5-1%).	3707	51.8-54.9	170-180	3.05	10	0.002
		33.5-36.6m (110'-120') - As above but only tr. k-feldspar.	3708	54.9-57.9	180-190	3.05	10	0.001
		36.6-51.8m (120'-170') - No significant k-feldspar, py. (tr. -0.5%).	3709	57.9-61.0	190-200	3.05	10	0.001
		51.8-54.9m (170'-180') - Slightly lighter grey. Biotite (2-3%), epidote (1-2%), tr. k-feldspar, tr. sericite, tr. py., no significant increase in quartz.	3710	61.0-64.0	200-210	3.05	10	0.002
		54.9-94.5m (180'-310') - Darker grey than above. Biotite (6%), epidote (2-4%), minor hornblende, tr. py., no significant k-feldspar or sericite, ± tr. magnetite.	3711	64.0-67.1	210-220	3.05	10	0.001
		94.5-100.6m (310'-330') - k-feldspar (0.5-1%).	3712	67.1-70.1	220-230	3.05	10	0.002
		100.6-103.6m (330'-340') - Slightly lighter grey. Decreased mafics. Biotite (3%), epidote (1-2%), sericite (<1%), tr. py.	3713	70.1-73.2	230-240	3.05	10	0.002
		103.6-106.7m (340'-350') - Similar to 54.9 to 94.5m	3714	73.2-76.2	240-250	3.05	10	0.001
			3715	76.2-79.2	250-260	3.05	10	0.001
			3716	79.2-82.3	260-270	3.05	10	0.002
			3717	82.3-85.3	270-280	3.05	10	0.002
			3718	85.3-88.4	280-290	3.05	10	0.002
			3719	88.4-91.4	290-300	3.05	10	0.001
			3720	91.4-94.5	300-310	3.05	10	0.002
			3721	94.5-97.5	310-320	3.05	10	0.002
			3722	97.5-100.6	320-330	3.05	10	0.002
			3723	100.6-103.6	330-340	3.05	10	0.001
			3724	103.6-106.7	340-350	3.05	10	0.002



# UNION OIL COMPANY OF CANADA LTD

## PERCUSSION DRILL LOG

PROPERTY CARMI HOLY  
 HOLE No. 79-P-130  
 COORDINATES 92+00E/102+00N

ELEVATION 1320m (4330 ft.)  
 AZIMUTH \_\_\_\_\_  
 INCLINATION -90 deg  
 TOTAL DEPTH 106.7m (350 ft.)

PERCUSSION  
 DRILLED BY M. MILLER DRILLING  
 DATE STARTED SEPT 18/79  
 DATE COMPLETED SEPT 18/79  
 LOGGED BY R Falls

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
0 - 3.0	0 - 10	OVERBURDEN	3657	3.0-6.1	10-20	3.05	10	0.004
			3658	6.1-9.1	20-30	3.05	10	0.006
3.0 - 12.2	10 - 40	NELSON DIORITE	3659	9.1-12.2	30-40	3.05	10	0.002
		Dark grey. Some weathered chips from 3.0-6.1m. Plagioclase, biotite (5-10%), epidote (5-8%), quartz (<1%), tr. sericite, tr. magnetite, tr. pyrite, tr. chlorite.	3660	12.2-15.2	40-50	3.05	10	0.002
		6.1-9.1m (20'-30') - Lighter grey. K-feldspar (<1%).	3661	15.2-18.3	50-60	3.05	10	0.001
		9.1-12.2m (30'-40') - Slightly darker grey. Similar to 3.0-6.1m no significant k-feldspar.	3662	18.3-21.3	60-70	3.05	10	0.002
			3663	21.3-24.4	70-80	3.05	10	0.001
			3664	24.4-27.4	80-90	3.05	10	0.001
			3665	27.4-30.4	90-100	3.05	10	0.009
			3666	30.4-33.5	100-110	3.05	10	0.005
12.2-15.2	40 - 50	TRANSITION ZONE	3667	33.5-36.6	110-120	3.05	10	0.002
		Light grey. Plagioclase, biotite (2-3%), epidote (1-2%), quartz (1-2%), k-feldspar (1%), tr. magnetite, tr. pyrite.	3668	36.6-39.6	120-130	3.05	10	0.001
			3669	39.6-42.7	130-140	3.05	10	0.003
			3670	42.7-45.7	140-150	3.05	10	0.001
15.2-21.3	50 - 70	QUARTZ PORPHYRY DYKE	3671	45.7-48.8	150-160	3.05	10	0.001
		White. Mainly plagioclase. Quartz (1-4%), biotite (1-2%), k-feldspar (1-2%), epidote (1%), tr. sericite, tr. magnetite, tr. pyrite, chlorite (<1%).	3672	48.8-51.8	160-170	3.05	10	0.001
		18.3-21.3m (60'-70') - tr. molybdenite.	3673	51.8-54.9	170-180	3.05	10	0.003
			3674	54.9-57.9	180-190	3.05	10	0.002
			3675	57.9-61.0	190-200	3.05	10	0.001
			3676	61.0-64.0	200-210	3.05	10	0.003
21.3-27.4	70 - 90	NELSON DIORITE	3677	64.0-67.1	210-220	3.05	10	0.001
		Grey. Plagioclase, biotite (5-10%), epidote (4-6%), quartz (1-2%)	3678	67.1-70.1	220-230	3.05	10	0.002
		k-feldspar (1%), tr. sericite, tr. magnetite, tr. pyrite.	3679	70.1-73.2	230-240	3.05	10	0.002
			3680	73.2-76.2	240-250	3.05	10	0.001
27.4-30.4	90 - 100	BRECCIA ZONE	3681	76.2-79.2	250-260	3.05	10	0.002
		Grey. Plagioclase, biotite (5-10%), epidote (4%), sericite (2-3%), quartz (1-2%), pyrite (1-2%), k-feldspar (<1%), fluorite (amethyst ?) (0.5%), tr. magnetite, tr. molybdenite, tr. chlorite.	3682	79.2-82.3	260-270	3.05	10	0.039
			3683	82.3-85.3	270-280	3.05	10	0.015
			3684	85.3-88.4	280-290	3.05	10	0.005
			3685	88.4-91.4	290-300	3.05	10	0.006
30.4-79.2	100 - 260	NELSON DIORITE	3686	91.4-94.5	300-310	3.05	10	0.005
		Grey. Plagioclase, biotite (5%), epidote (4-5%), k-feldspar (1%) quartz (<1%), sericite (0.5-1%), tr. pyrite, tr. magnetite, fluorite.	3687	94.5-97.5	310-320	3.05	10	0.004
		33.5-51.8m (110'-170') - Biotite (5-10%), epidote (5-8%), tr. sericite, tr. fluorite (amethyst ?). No significant k-feldspar.	3688	97.5-100.6	320-330	3.05	10	0.004
		51.8-54.9m (170'-180') - Slight sericite increase (0.5-1%).	3689	100.6-103.6	330-340	3.05	10	0.003
		54.9-57.9m (180'-190') - Pyrite increase (0.5-1%), tr. sericite.	3690	103.6-106.7	340-350	3.05	10	0.004

UNION OIL COMPANY OF CANADA LTD  
PERCUSSION DRILL LOG

PROPERTY \_\_\_\_\_  
HOLE No. 79-P-130 Cont.  
COORDINATES \_\_\_\_\_

ELEVATION \_\_\_\_\_  
AZIMUTH \_\_\_\_\_  
INCLINATION \_\_\_\_\_  
TOTAL DEPTH \_\_\_\_\_

DRILLED BY \_\_\_\_\_  
DATE STARTED \_\_\_\_\_  
DATE COMPLETED \_\_\_\_\_  
LOGGED BY \_\_\_\_\_

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
		57.9-70.1m (190'-230') - tr. pyrite.						
		70.1-73.2m (230'-240') - Slightly lighter grey. Biotite (5-8%).						
		73.2-76.2m (240'-250') - Slightly darker grey. Similar to 30.4-						
		70.1m. Biotite (5-10%).						
		76.2-79.2m (250'-260') - Similar to 70.1-73.2m.						
79.2-82.3	260 - 270	SERICITE ZONE						
		White. Sericite (96-97%), epidote (1-2%), biotite (1%), tr. pyrite, tr. magnetite, tr. molybdenite, tr. chlorite.						
82.3-91.4	270 - 300	TRANSITION ZONE						
		Light grey. Sericite (≈75%), plagioclase and quartz (<10%), biotite (3-4%), epidote (3-4%), tr. py., tr. mag., tr. fluorite (amethyst ?), tr. brown unidentified mineral. No molybdenite.						
		85.3-91.4m (280'-300') - Increasing plagioclase, biotite, epidote. Decreasing sericite (10-15%).						
91.4-106.7	300 - 350	NELSON DIORITE						
		Grey. Plagioclase, sericite (5-8%), biotite (5-8%), epidote (5-8%), tr. pyrite, tr. magnetite, tr. fluorite (amethyst ?), tr. chlorite.						
		94.5-97.5m (310'-320') - Sericite (3-5%). No fluorite noted.						
		97.5-100.6m (320'-330') - Sericite (3%)						
		100.6-103.6m (330'-340') - Lighter grey. Biotite (5%), sericite (2-3%).						
		103.6-106.7m (340'-350') - Darker grey. Similar to 91.4-100.6m Biotite (5-8%).						

**UNION OIL COMPANY OF CANADA LTD  
PERCUSSION DRILL LOG**

PROPERTY CARMI HOLY  
HOLE No. 79-P-131  
COORDINATES 90+00E/103+00N

ELEVATION 1285 (4217 ft.)  
AZIMUTH \_\_\_\_\_  
INCLINATION -90 deg  
TOTAL DEPTH 106.7m (350 ft.)

PERCUSSION  
DRILLED BY AL MILLER DRILLING  
DATE STARTED SRPT 17/79  
DATE COMPLETED SEPT 18/79  
LOGGED BY R. Falls

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
0 - 3.0	0 - 10	OVERBURDEN	3623	3.0-6.1	10-20	3.05	10	0.058
			3624	6.1-9.1	20-30	3.05	10	0.061
3.0-9.1	10-30	PARITAL OVERBURDEN - OXIDIZED BRECCIA ZONE	3625	9.1-12.2	30-40	3.05	10	0.009
		Rusty brown. Weathered chips. Mainly plagioclase, quartz.	3626	12.2-15.2	40-50	3.05	10	0.006
		Sericite (5-10%), biotite (5%), tr. pyrite.	3627	15.2-18.3	50-60	3.05	10	0.037
		(20'-30') - Biotite decrease (2%), sericite increase	3628	18.3-21.3	60-70	3.05	10	0.072
		(10%), pyrite (0.5-1%), chlorite (1%).	3629	21.3-24.4	70-80	3.05	10	0.062
			3630	24.4-27.4	80-90	3.05	10	0.126
9.1-48.8	30-160	BRECCIA ZONE	3631	27.4-30.4	90-100	3.05	10	0.076
		Sharp colour change to light grey. Mainly plagioclase. Quartz	3632	30.4-33.5	100-110	3.05	10	0.083
		(3-5%), sericite (3-5%), biotite (3-5%), epidote (0.5-1%),	3633	33.5-36.6	110-120	3.05	10	0.076
		k-feldspar (<0.5%), pyrite (0.5%), tr. fluorite (amethyst ?).	3634	36.6-39.6	120-130	3.05	10	0.174
		12.2-15.2m (40'-50') - epidote (5%), sericite (0.5-1%), chlorite	3635	39.6-42.7	130-140	3.05	10	0.134
		k-feldspar (0.5%), no fluorite (amethyst ?) noted. (1-2%)	3636	42.7-45.7	140-150	3.05	10	0.062
		15.2-18.3m (50'-60') - pyrite (1%), tr. fluorite (amethyst ?).	3637	45.7-48.8	150-160	3.05	10	0.016
		18.3-21.3m (60'-70') - epidote (3%), pyrite (2-3%), tr. fluorite	3638	48.8-51.8	160-170	3.05	10	0.012
		(amethyst ?), tr. magnetite, tr. molybdenite.	3639	51.8-54.9	170-180	3.05	10	0.006
		21.3-24.4m (70'-80') - Quartz (10-15%), sericite (10%), pyrite	3640	54.9-57.9	180-190	3.05	10	0.006
		(3%), k-feldspar (1%), biotite (<1%), fluorite (amethyst ?)	3641	57.9-61.0	190-200	3.05	10	0.006
		(tr.-0.5%), tr. epidote, tr. magnetite, tr. molybdenite, tr. chlorite	3642	61.0-64.0	200-210	3.05	10	0.013
		24.4-27.4m (80'-90') - Sericite decrease (2-3%). Pyrite (2%),	3643	64.0-67.1	210-220	3.05	10	0.008
		biotite (3%), epidote (0.5-1%), k-feldspar (0.5%), tr. fluorite	3644	67.1-70.1	220-230	3.05	10	0.005
		(amethyst ?), tr. molybdenite.	3645	70.1-73.2	230-240	3.05	10	0.005
		27.4-30.4m (90'-100') - Pyrite (3-4%), tr. molybdenite, tr.	3646	73.2-76.2	240-250	3.05	10	0.058
		magnetite. Sericite (1%).	3647	76.2-79.2	250-260	3.05	10	0.008
		30.4-33.5m (100'-110') - Sericite (10%), pyrite (5%).	3648	79.2-82.3	260-270	3.05	10	0.024
		33.5-45.7m (110'-150') - Biotite (3-5%), epidote (2%), sericite	3649	82.3-85.3	270-280	3.05	10	0.135
		(1-2%), pyrite (1-2%), k-feldspar (0.5%), no fluorite (amethyst	3650	85.3-88.4	280-290	3.05	10	0.128
		?) noted, tr. moly., tr. magnetite.	3651	88.4-91.4	290-300	3.05	10	0.084
		47.5-48.8m (150'-160') - No significant moly.	3652	91.4-94.5	300-310	3.05	10	0.075
			3653	94.5-97.5	310-320	3.05	10	0.017
48.8-70.1	160-230	NELSON DOIRITE	3654	97.5-100.6	320-330	3.05	10	0.012
		Gray. Similar to above Breccia Zone. Plagioclase, quartz (1-	3655	100.6-103.6	330-340	3.05	10	0.018
		4%), epidote (2-3%), biotite (2-3%), pyrite (1-2%), sericite	3656	103.6-106.7	340-350	3.05	10	0.912
		(1%), k-feldspar (0.5-1%), tr. molybdenite, tr. magnetite, chlorite						
		51.8-54.9m (170'-180') - No moly noted. (1-2%).						

**UNION OIL COMPANY OF CANADA LTD**  
**PERCUSSION DRILL LOG**

PROPERTY \_\_\_\_\_  
HOLE No. 79-P-131 Con't  
COORDINATES \_\_\_\_\_

ELEVATION \_\_\_\_\_  
AZIMUTH \_\_\_\_\_  
INCLINATION \_\_\_\_\_  
TOTAL DEPTH \_\_\_\_\_

DRILLED BY \_\_\_\_\_  
DATE STARTED \_\_\_\_\_  
DATE COMPLETED \_\_\_\_\_  
LOGGED BY \_\_\_\_\_

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
		54.9-57.9m (180'-190') - Biotite increase (4-5%), epidote (3-4%), tr. k-feldspar, chlorite (<1%).						
		57.9-61.0m (190'-200') - Biotite (5-7%), epidote (5%),						
		61.0-64.0m (200'-210') - Biotite (3%), epidote (1-2%).						
		64.0-67.1m (210'-220') - Biotite (5%), epidote (2-4%), tr. fluorite (amethyst ?).						
		67.1-70.1m (220'-230') - Biotite (4-5%), epidote (4-5%),						
70.1-76.2	230-250	QUARTZ PORPHYRY DYKE OR LEUCOCRATIC QUARTZ MONZONITE Sharp colour change to white. Mainly plagioclase, quartz. Biotite (1%), sericite (1%), k-feldspar (<0.5%), tr. epidote, tr. pyrite, tr. magnetite, chlorite (<1%), tr. fluorite. 73.2-76.2m (240'-250') - Sericite (3%), epidote (1%), tr. molybdenite, biotite (2%), chlorite (1%).						
76.2-82.3	250-270	NELSON DIORITE Grey. Plagioclase, quartz (1-3%), biotite (5%), epidote (5%), pyrite (1%), k-feldspar (0.5-1%), sericite (0.5%), tr. magnetite, minor chlorite.						
82.3-94.5	270-310	BRECCIA ZONE Lighter grey than above. Mainly plagioclase, quartz (5-10%), sericite (5%), pyrite (2%), k-feldspar (1-2%), epidote (1%), biotite (1%), tr. magnetite, tr. molybdenite, tr. chlorite. 85.3-88.4m (280'-290') - tr. epidote. 88.4-91.4m (290'-300') - Sericite (3-5%), tr. k-feldspar. 91.4-94.5m (300'-310') - Biotite (1-2%), sericite (1%).						
94.5-97.5	310-320	NELSON DIORITE Slightly darker grey than above. Plagioclase, quartz (1-3%), biotite (3-4%), epidote (2-3%), sericite (<1%), pyrite (0.5-1%), tr. k-feldspar, tr. magnetite, minor chlorite.						
97.5-106.7	320-350	BRECCIA ZONE Lighter grey than above. Mainly plagioclase, quartz (5% ?), biotite (1-2%), sericite (1-2%), k-feldspar (0.5-1%), epidote (<1%), pyrite (0.5-1%), tr. magnetite, tr. chlorite.						

**UNION OIL COMPANY OF CANADA LTD  
PERCUSSION DRILL LOG**

PROPERTY \_\_\_\_\_  
 HOLE No. 79-P-131 Con't  
 COORDINATES \_\_\_\_\_

ELEVATION \_\_\_\_\_  
 AZIMUTH \_\_\_\_\_  
 INCLINATION \_\_\_\_\_  
 TOTAL DEPTH \_\_\_\_\_

DRILLED BY \_\_\_\_\_  
 DATE STARTED \_\_\_\_\_  
 DATE COMPLETED \_\_\_\_\_  
 LOGGED BY \_\_\_\_\_

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		$\frac{1}{2}$ MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
		100.6-101.6m (330'-340') - Quartz (5-10%), sericite (4-5%), pyrite (2-3%).						
		103.6-106.7m (340'-350') - Sericite (5-10%), pyrite (4%), molybdenite (tr.-0.5%), tr. fluorite (amethyst?).						

**UNION OIL COMPANY OF CANADA LTD  
PERCUSSION DRILL LOG**

PROPERTY CARMI MOLT  
HOLE No. 79-P-142  
COORDINATES 84+00E/110+50N

ELEVATION 960m (3150 ft.)  
AZIMUTH \_\_\_\_\_  
INCLINATION -90 deg  
TOTAL DEPTH 106.7m (350 ft.)

DRILLED BY JOSCO MINING LTD.  
DATE STARTED NOV 5/79  
DATE COMPLETED NOV 5/79  
LOGGED BY R. Falls

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>3</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
0-3.0	0-10	LEUCOCRATIC QUARTZ MONZONITE STOCK	3955	0-3.0	0-10	3.05	10	0.001
		Buff white. Mainly plagioclase and quartz. k-feldspar (7%),	3956	3.0-6.1	10-20	3.05	10	0.005
		biotite (1%), sericite (1%), tr. magnetite, no epidote, minor	3957	6.1-9.1	20-30	3.05	10	0.005
		chlorite.	3958	9.1-12.2	30-40	3.05	10	0.013
3.0-9.1	10-30	PARTIAL OVERBURDEN	3959	12.2-15.2	40-50	3.05	10	0.009
		(Possible sample interchange)	3960	15.2-18.3	50-60	3.05	10	0.006
		Light orange - brown. Weathered chips. Plagioclase, quartz	3961	18.3-21.3	60-70	3.05	10	0.004
		(15%), k-feldspar (7%), biotite (1%), sericite (1%), tr. magne-	3962	21.3-24.4	70-80	3.05	10	0.012
		tite, minor chlorite.	3963	24.4-27.4	80-90	3.05	10	0.006
		6.1-9.1m (20'-30') - Lighter shade of orange - brown. k-feldspar	3964	27.4-30.4	90-100	3.05	10	0.005
		(1-2%), sericite (1-2%).	3965	30.4-33.5	100-110	3.05	10	0.004
			3966	33.5-36.6	110-120	3.05	10	0.005
9.1-106.7	30-350	LEUCOCRATIC QUARTZ MONZONITE STOCK	3967	36.6-39.6	120-130	3.05	10	0.006
		Buff white. Some weathered chips from 9.1-12.2m Plagioclase,	3968	39.6-42.7	130-140	3.05	10	0.007
		quartz (15-20%), sericite (1-3%), k-feldspar (<1%) biotite (<1%),	3969	42.7-45.7	140-150	3.05	10	0.011
		tr. pyrite, tr. magnetite, no epidote, chlorite (<1%).	3970	45.7-48.8	150-160	3.05	10	0.008
		12.2-27.4m (40'-90') - Colour change to white. K-feldspar (7-20%),	3971	48.8-51.8	160-170	3.05	10	0.006
		27.4-30.4m (90'-100') - tr. molybdenite.	3972	51.8-54.9	170-180	3.05	10	0.006
		30.4-45.7m (100'-150') - No moly noted.	3973	54.9-57.9	180-190	3.05	10	0.004
		45.7-48.8m (150'-160') - tr. moly.	3974	57.9-61.0	190-200	3.05	10	0.006
		48.8-51.8m (160'-170') - No moly noted.	3975	61.0-64.0	200-210	3.05	10	0.006
		51.8-64.0m (170'-210') - k-feldspar (5-7%).	3976	64.0-67.1	210-220	3.05	10	0.006
		64.0-76.2m (210'-250') - k-feldspar (3-5%).	3977	67.1-70.1	220-230	3.05	10	0.005
		76.2-91.4m (250'-300') - k-feldspar (2-3%).	3978	70.1-73.2	230-240	3.05	10	0.004
		91.4-94.5m (300'-310') - k-feldspar (3-4%).	3979	73.2-76.2	240-250	3.05	10	0.006
		94.5-97.5m (310'-320') - k-feldspar (2-3%).	3980	76.2-79.2	250-260	3.05	10	0.005
		97.5-100.6m (320'-330') - k-feldspar (5-7%), sericite (3-4%).	3981	79.2-82.3	260-270	3.05	10	0.007
		100.6-103.6m (330'-340') - k-feldspar (3%), sericite (2%).	3982	82.3-85.3	270-280	3.05	10	0.006
		103.6-106.7m (340'-350') - k-feldspar (3-5%).	3983	85.3-88.4	280-290	3.05	10	0.006
			3984	88.4-91.4	290-300	3.05	10	0.004
			3985	91.4-94.5	300-310	3.05	10	0.004
			3986	94.5-97.5	310-320	3.05	10	0.022
			3987	97.5-100.6	320-330	3.05	10	0.020
			3988	100.6-103.6	330-340	3.05	10	0.009
			3989	103.6-106.7	340-350	3.05	10	0.007

**UNION OIL COMPANY OF CANADA LTD  
PERCUSSION DRILL LOG**

PROPERTY Carol Moly  
HOLE No. 79-P-144  
COORDINATES 80+00E/110+50N

ELEVATION 1150 M (3773 Ft.)  
AZIMUTH \_\_\_\_\_  
INCLINATION -90°  
TOTAL DEPTH 91.4 M (300 Ft.)

DRILLED BY Josco Mining Ltd.  
DATE STARTED Nov. 3/79  
DATE COMPLETED Nov. 4/79  
LOGGED BY R. Falls

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>3</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
0 - 13.7	0 - 45	OVERBURDEN	3896	13.7-15.2	45-50	1.52	5	0.001
			3897	15.2-18.3	50-60	3.05	10	0.001
13.7-15.2	45-50	PARTIAL OVERBURDEN	3898	18.3-21.3	60-70	3.05	10	0.001
		Light brown. Mainly plagioclase, quartz, k-feldspar (2%),	3899	21.3-24.4	70-80	3.05	10	0.001
		biotite (0.5-1%), sericite (0.5%), tr. pyrite, tr. magnetite,	3900	24.4-27.4	80-90	3.05	10	0.001
		epidote (0.5%), tr. chlorite.	3901	27.4-30.4	90-100	3.05	10	0.001
15.2-91.4	50-300	LEUCOCRATIC QUARTZ MONZONITE STOCK	3902	30.3-33.5	100-110	3.05	10	0.002
		Light grey to white. Mainly plagioclase, quartz, k-feldspar	3903	33.5-36.6	110-120	3.05	10	0.004
		(2-4%), biotite (0.5-1%), sericite (tr-0.5%), epidote (<0.5%),	3904	36.6-39.6	120-130	3.05	10	0.003
		tr. pyrite, tr. magnetite, chlorite (0.5%).	3905	39.6-42.7	130-140	3.05	10	0.004
		18.3-21.3m (60'-70') - No epidote noted.	3906	42.7-45.7	140-150	3.05	10	0.002
		21.3-24.4m (70'-80') - tr. epidote.	3907	45.7-48.8	150-160	3.05	10	0.002
		24.4-27.4m (80'-90') - Disappearance of epidote.	3908	48.8-51.8	160-170	3.05	10	0.002
		27.4-48.8m (90'-160') - Slight grain size increase, k-feldspar	3909	51.8-54.9	170-180	3.05	10	0.002
		(2-4%), chlorite (0.5-1%), sericite (0.5%), tr. py., tr. mag.	3910	54.9-57.9	180-190	3.05	10	0.002
		48.8-51.8m (160'-170') - Vary slightly darker grey. tr. epidote	3911	57.9-61.0	190-200	3.05	10	0.002
		51.8-61.0m (170'-200') - Lighter grey. No significant epidote	3912	61.0-64.0	200-210	3.05	10	0.002
		k-feldspar (2-3%), biotite (0.5-1%), sericite (0.5%), tr. py.,	3913	64.0-67.1	210-220	3.05	10	0.002
		tr. mg.	3914	67.1-70.1	220-230	3.05	10	0.003
		61.0-64.0m (200'-210') - tr. fluorite.	3915	70.1-73.2	230-240	3.05	10	0.001
		64.0-67.1m (210'-220') - similar to 51.8 to 61.0m but slightly	3916	73.2-76.2	240-250	3.05	10	0.001
		decreased k-feldspar, tr. epidote.	3917	76.2-79.2	250-260	3.05	10	0.002
		67.1-73.2m (220'-240') - k-feldspar (2-4%), no significant	3918	79.2-82.3	260-270	3.05	10	0.002
		epidote, biotite (0.5-1%), sericite (0.5%), tr. py., tr. mag.	3919	82.3-85.3	270-280	3.05	10	0.003
		73.2-76.2m (240'-250') - Slight grain size increase. Sericite	3920	85.3-88.4	280-290	3.05	10	0.002
		(0.5-1%), tr. epidote.	3921	88.4-91.4	290-300	3.05	10	0.003
		76.2-85.3m (250'-280') - Slightly finer grained. No significant						
		epidote.						
		85.3-91.4m (280'-300') - Further grain size decrease. Sericite						
		(<0.5%).						





# UNION OIL COMPANY OF CANADA LTD

## PERCUSSION DRILL LOG

PROPERTY Carmi Moly  
HOLE No. 79-P-145 B  
COORDINATES 80+00E/106+50N

ELEVATION 1005 H (3297 Ft.)  
AZIMUTH \_\_\_\_\_  
INCLINATION - 90°  
TOTAL DEPTH 15.2 H (50 Ft.)

DRILLED BY Josco Mining  
DATE STARTED Oct. 31/79  
DATE COMPLETED Oct. 31/79  
LOGGED BY R. Falls

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>3</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
0-15.2	0 - 50	OVERBURDEN (No samples)	NIL					

**UNION OIL COMPANY OF CANADA LTD  
PERCUSSION DRILL LOG**

PROPERTY Carmel Moly  
HOLE No. 79-P-146  
COORDINATES 76+00E/104+00N

ELEVATION 960 M (3150 ft.)  
AZIMUTH \_\_\_\_\_  
INCLINATION -90°  
TOTAL DEPTH 103.6 M (340 ft.)

DRILLED BY Jobco Mining Ltd.  
DATE STARTED Oct. 28/79  
DATE COMPLETED Oct. 28/79  
LOGGED BY R. Falla

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
0-6.1	0-20	OVERBURDEN	3801	6.1-9.1	20-30	3.05	10	0.001
			3802	9.1-12.2	30-40	3.05	10	0.001
6.1-9.1	20-30	PARTIAL OVERBURDEN	3803	12.2-15.2	40-50	3.05	10	0.001
		Light brown. Mainly plagioclase and quartz. Biotite (2-3%),	3804	15.2-18.3	50-60	3.05	10	0.001
		k-feldspar (1%), epidote (1%), tr. sericite, tr. magnetite,	3805	18.3-21.3	60-70	3.05	10	0.001
		tr. chlorite.	3806	21.3-24.4	70-80	3.05	10	0.001
9.1-103.6	30-340'	LEUCOCRATIC QUARTZ MONZONITE STOCK	3807	24.4-27.4	80-90	3.05	10	0.001
		White. Mainly plagioclase and quartz. k-feldspar (3%), biotite	3808	27.4-30.4	90-100	3.05	10	0.002
		(2-3%), tr. sericite, tr. epidote, tr. magnetite, chlorite (0.5-1%)	3809	30.4-33.5	100-110	3.05	10	0.001
		15.2-18.3m (50'-60') - k-feldspar increase (3-5%). No epidote.	3810	33.5-36.6	110-120	3.05	10	0.001
		18.3-21.3m (60'-70') - Slight biotite decrease (2%). Sericite	3811	36.6-39.6	120-130	3.05	10	0.002
		(0.5-1%), chlorite (1%).	3812	39.6-42.7	130-140	3.05	10	0.001
		21.3-24.4m (70'-80') - k-feldspar (5-7%), tr. pyrite.	3813	42.7-45.7	140-150	3.05	10	0.001
		24.4-30.4m (80'-100') - Biotite (1%), k-feldspar (10-12%),	3814	45.7-48.8	150-160	3.05	10	0.001
		30.4-36.6m (100'-120') - Lighter White than above. k-feldspar	3815	48.8-51.8	160-170	3.05	10	0.001
		(5%), biotite (0.5-1%).	3816	51.8-54.9	170-180	3.05	10	0.001
		36.6-39.6m (120'-130') - k-feldspar (5-10%)	3817	54.9-57.9	180-190	3.05	10	0.002
		39.6-48.8m (130'-160') - k-feldspar (10-15%). No significant	3818	57.9-61.0	190-200	3.05	10	0.001
		pyrite.	3819	61.0-64.0	200-210	3.05	10	0.001
		48.8-51.8m (160'-170') - k-feldspar (10%).	3820	64.0-67.1	210-220	3.05	10	0.001
		51.8-54.9m (170'-180') - Chlorite (0.5-1%), k-feldspar (10-15%),	3821	67.1-70.1	220-230	3.05	10	0.001
		tr. pyrite. Cuttings more granular.	3822	70.1-73.2	230-240	3.05	10	0.001
		54.9-91.4m (180'-300') - Similar to 48.8-51.8m but k-feldspar	3823	73.2-76.2	340-350	3.05	10	0.002
		(5-7%). No significant Chlorite.	3824	76.2-79.2	250-260	3.05	10	0.001
		91.4-100.6m (300'-330') - Cuttings more granular than above.	3825	79.2-82.3	260-270	3.05	10	0.001
		Biotite (0.5-1%), chlorite (0.5-1%), tr. mag., tr. py.,	3826	82.3-85.3	270-280	3.05	10	0.001
		k-feldspar (10-15%).	3827	85.3-88.4	280-290	3.05	10	0.002
		100.6-103.6m (330'-340') - As above but sericite (1-2%).	3828	88.4-91.4	290-300	3.05	10	0.001
			3829	91.4-94.5	300-310	3.05	10	0.001
			3830	94.5-97.5	310-320	3.05	10	0.001
			3831	97.5-100.6	320-330	3.05	10	0.001
			3832	100.6-103.6	330-340	3.05	10	0.002

**UNION OIL COMPANY OF CANADA LTD**  
**PERCUSSION DRILL LOG**

PROPERTY Casmi Moly  
HOLE No. 79-P-147  
COORDINATES 76+00E/110+00N

ELEVATION 1170M (3840E)  
AZIMUTH \_\_\_\_\_  
INCLINATION -90°  
TOTAL DEPTH 61.0M (200E)

DRILED BY Jorco Mining Ltd.  
DATE STARTED Oct. 31/79  
DATE COMPLETED Nov. 1/79  
LOGGED BY K. Falls

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
0 - 1.5	0 - 5	OVERBURDEN	3872	1.5-3.0	5-10	1.52	5	0.001
			3873	3.0-6.1	10-20	3.05	10	0.001
1.5-61.0	5 - 200'	NELSON DIORITE	3874	6.1-9.1	20-30	3.05	10	0.001
		Light brown. Mainly plagioclase, Biotite (3-5%), quartz (<1%), tr. magnetite, tr. k-feldspar.	3875	9.1-12.2	30-40	3.05	10	0.001
		3.0-6.1m (10'-20') - Biotite increases (5-10%), epidote (1%).	3876	12.2-15.2	40-50	3.05	10	0.001
		6.1-27.4m (20'-90') - Colour change to grey. Increased biotite (10-12%), epidote (3-5%). No significant k-feldspar or sericite. Minor chlorite (<1%).	3877	15.2-18.3	50-60	3.05	10	0.001
		27.4-30.4m (90'-100') - Slightly lighter grey. Decreased biotite (5%), epidote (2-3%), chlorite (<0.5%).	3878	18.3-21.3	60-70	3.05	10	0.001
		30.4-48.8m (100'-160') - Slightly darker grey than above. Biotite (5-12%), epidote (3-5%), tr. pyrite, tr. chlorite.	3879	21.3-24.4	70-80	3.05	10	0.001
		48.8-54.9m (160'-180') - Slightly lighter grey. Biotite (5-10%), epidote (1-2%), tr. sericite.	3880	24.4-27.4	80-90	3.05	10	0.001
		54.9-61.0m (180'-200') - Slightly lighter grey. Biotite (5%), epidote (1%).	3881	27.4-30.4	90-100	3.05	10	0.001
			3882	30.4-33.5	100-110	3.05	10	0.001
			3883	33.5-36.6	110-120	3.05	10	0.001
			3884	36.6-39.6	120-130	3.05	10	0.001
			3885	39.6-42.7	130-140	3.05	10	0.001
			3886	42.7-45.7	140-150	3.05	10	0.001
			3887	45.7-48.8	150-160	3.05	10	0.001
			3888	48.8-51.8	160-170	3.05	10	0.001
			3889	51.8-54.9	170-180	3.05	10	0.001
			3890	54.9-57.9	180-190	3.05	10	0.001
			3891	57.9-61.0	190-200	3.05	10	0.001

# UNION OIL COMPANY OF CANADA LTD

## PERCUSSION DRILL LOG

PROPERTY Carmi Moly  
 HOLE No. 79-P-160  
 COORDINATES 88+00E/111+00N

ELEVATION 950M (3117 ft)  
 AZIMUTH \_\_\_\_\_  
 INCLINATION -90°  
 TOTAL DEPTH 94.5M (310 ft.)

DRILLED BY Inco Mining Ltd  
 DATE STARTED Nov. 19/79  
 DATE COMPLETED Nov. 19/79  
 LOGGED BY R. Falls

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
0 - 21.3	0-70	OVERBURDEN	4021	21.3-24.4	70-80	3.05	10	0.004
		LEUCOCRATIC QUARTZ MONOZONITE STOCK	4022	24.4-27.4	80-90	3.05	10	0.003
21.3-94.5	70-310	Light grey to white. Mainly plagioclase, quartz, k-feldspar	4023	27.4-30.4	90-100	3.05	10	0.005
		(1-2%), chlorite(0.5-1%), sericite (0.5%), tr. pyrite, ± tr.	4024	30.4-33.5	100-110	3.05	10	0.005
		magnetite, ± minor biotite.	4025	33.5-36.6	110-120	3.05	10	0.003
		61.0-64.0m (200'-210') - tr. molybdenite.	4101	36.6-39.6	120-130	3.05	10	0.003
		67.1-94.5m (220'-310') - slight increase in k-feldspar (1-4%),	4102	39.6-42.7	130-140	3.05	10	0.002
		sericite (0.5-1%), tr. py., ± tr. magnetite.	4103	42.7-45.7	140-150	3.05	10	0.003
			4104	45.7-48.8	150-160	3.05	10	0.004
			4105	48.8-51.8	160-170	3.05	10	0.004
			4106	51.8-54.9	170-180	3.05	10	0.003
			4107	54.9-57.9	180-190	3.05	10	0.005
			4108	57.9-61.0	190-200	3.05	10	0.003
			4109	61.0-64.0	200-210	3.05	10	0.003
			4110	64.0-67.1	210-220	3.05	10	0.001
			4111	67.1-70.1	220-230	3.05	10	0.001
			4112	70.1-73.2	230-240	3.05	10	0.001
			4113	73.2-76.2	240-250	3.05	10	0.003
			4114	76.2-79.2	250-260	3.05	10	0.005
			4115	79.2-82.3	260-270	3.05	10	0.003
			4116	82.3-85.3	270-280	3.05	10	0.003
			4117	85.3-88.4	280-290	3.05	10	0.003
			4118	88.4-91.4	290-300	3.05	10	0.004
			4119	91.4-94.5	300-310	3.05	10	0.003

**UNION OIL COMPANY OF CANADA LTD  
PERCUSSION DRILL LOG**

PROPERTY Carmi Moly  
HOLE No. 79-P-161  
COORDINATES 82+00E/108+00N

ELEVATION : 960 M (3150 ft.)  
AZIMUTH -90°  
INCLINATION -90°  
TOTAL DEPTH 106.7 M (350 ft.)

DRILLED BY Josco Mining Ltd.  
DATE STARTED Oct. 29/79  
DATE COMPLETED Oct. 29/79  
LOGGED BY R. Falls

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
0-1.5	0-5	OVERBURDEN	3833	1.5-3.0	5-10	1.52	5	0.001
			3834	3.0-6.1	10-20	3.05	10	0.003
1.5-6.1	5-20	PARTIAL OVERBURDEN	3835	6.1-9.1	20-30	3.05	10	0.011
		Light brown. Weathered chips. Plagioclase, quartz, sericite (0.5-1%), biotite (0.5-1%), magnetite (<0.5%), tr. chlorite.	3836	9.1-12.2	30-40	3.05	10	0.003
			3837	12.2-15.2	40-50	3.05	10	0.005
			3838	15.2-18.3	50-60	3.05	10	0.003
6.1-9.1	20-30	TRANSITION TO LEUCOCRATIC QUARTZ MONZONITE STOCK	3839	18.3-21.3	60-70	3.05	10	0.005
		Light brown. Plagioclase, quartz, with k-feldspar, sericite (0.5%), pyrite (<0.5%), magnetite (<0.5%), tr. chlorite.	3840	21.3-24.4	70-80	3.05	10	0.003
			3841	24.4-27.4	80-90	3.05	10	0.004
			3842	27.4-30.4	90-100	3.05	10	0.005
9.1-106.7	30-350	LEUCOCRATIC QUARTZ MONZONITE STOCK	3843	30.4-33.5	100-110	3.05	10	0.006
		Light grey to white. Mainly plagioclase, quartz with k-feldspar (3-5%), Sericite (0.5-1%), biotite (<0.5%), pyrite (<0.5%), magnetite (<0.5%), chlorite (0.5-2%).	3844	33.5-36.6	110-120	3.05	10	0.007
			3845	36.6-39.6	120-130	3.05	10	0.005
			3846	39.6-42.7	130-140	3.05	10	0.004
		15.2-21.3m (50'-70') - slight py. increase (0.5-1%)	3847	42.7-45.7	140-150	3.05	10	0.004
		21.3-30.4m (70'-100') - slight grain size increase, py (0.5-1%)	3848	45.7-48.8	150-160	3.05	10	0.004
		30.4-42.7m (100'-140') - Decreased k-feldspar (3%), Pyrite (0.5%). Also slightly finer grained	3849	48.8-51.8	160-170	3.05	10	0.003
		42.7-48.8m (140'-160') - k-feldspar (1-2%), Sericite (<0.5%), pyrite (0.5%), tr. magnetite	3850	51.8-54.9	170-180	3.05	10	0.006
		48.8-54.9m (160'-180') - slight grain size increase, k-feldspar (1%), Sericite (<0.5%), py. (<0.5%), tr. magnetite	3851	54.9-57.9	180-190	3.05	10	0.003
		54.9-57.9m (180'-190') - slight increase in sericite (0.5-1%)	3852	57.9-61.0	190-200	3.05	10	0.003
		57.9-61.0m (190'-200') - k-feldspar increase (2-3%) Sericite (0.5-1%)	3853	61.0-64.0	200-210	3.05	10	0.006
		61.0-64.0m (200'-210') - Sericite decrease (<0.5%)	3854	64.0-67.1	210-220	3.05	10	0.004
		64.0-70.1m (210'-230') - Sericite increase (1%)	3855	67.1-70.1	220-230	3.05	10	0.003
		70.1-73.2m (230'-240') - Sericite decrease (<0.5%)	3856	70.1-73.2	230-240	3.05	10	0.004
		73.2-85.3m (240'-280') - Sericite increase (1%), tr. py.	3857	73.2-76.2	240-250	3.05	10	0.003
		85.3-100.6m (280'-330') - Sericite (1-2%), k-feldspar (1-2%).	3860	82.3-85.3	270-280	3.05	10	0.002
		100.6-103.6m (330'-340') - Sericite increase (3-4%), k-feldspar (2%), biotite (1%), tr. py., tr. magnetite, tr. molybdenite	3861	85.3-88.4	280-290	3.05	10	0.005
		Slight grain size increase.	3862	88.4-91.4	290-300	3.05	10	0.003
		103.6-106.7m (340'-350') - Same as above but no moly noted.	3863	91.4-94.5	300-310	3.05	10	0.003
			3864	94.5-97.5	310-320	3.05	10	0.004
			3865	97.5-100.6	320-330	3.05	10	0.001
			3866	100.6-103.6	330-340	3.05	10	0.002
			3867	103.6-106.7	340-350	3.05	10	0.001





**UNION OIL COMPANY OF CANADA LTD  
PERCUSSION DRILL LOG**

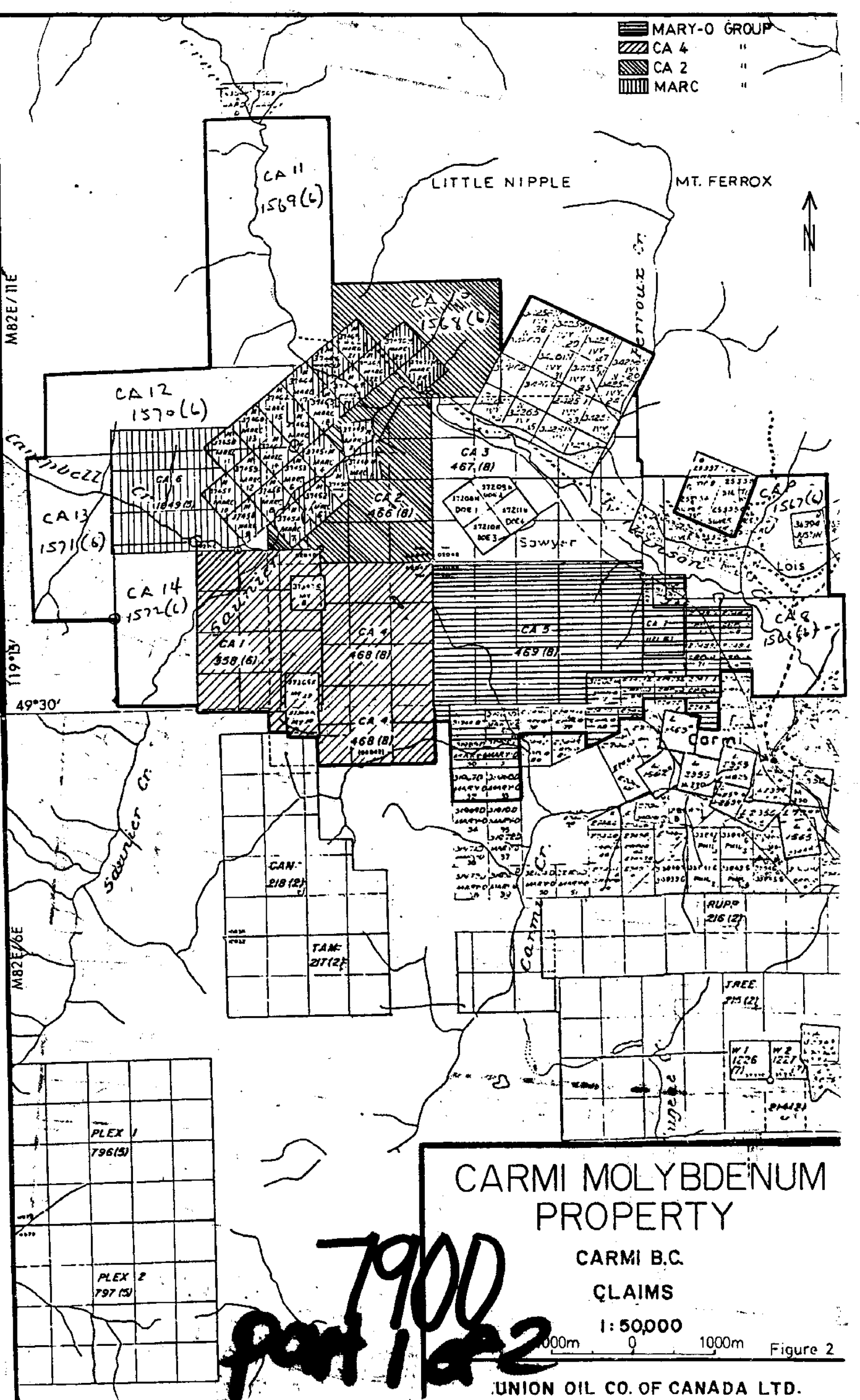
PROPERTY GARMI MOLY  
HOLE No. 79-P-162  
COORDINATES 85+00E/113+00N

ELEVATION 1000m (3280 ft.)  
AZIMUTH \_\_\_\_\_  
INCLINATION 91.4m (300 ft.)  
TOTAL DEPTH \_\_\_\_\_

DRILLED BY JOSCO MINING LTD.  
DATE STARTED NOV. 6/79  
DATE COMPLETED NOV. 6/79  
LOGGED BY R. Falls

DEPTH		DESCRIPTION	SAMPLE No.	DEPTH		LENGTH		% MoS <sub>2</sub>
METRES	FEET			METRES	FEET	METRES	FEET	
0 - 91.4	0 - 300	LEUCOCRATIC QUARTZ MONZONITE STOCK	3991	0-3.0	0-10	3.05	10	0.002
		Light brown to white. Mainly plagioclase and quartz,	3992	3.0-6.1	10-20	3.05	10	0.002
		k-feldspar (2-4%), biotite (0.5-1%), sericite (0.5-1%), tr.	3993	6.1-9.1	20-30	3.05	10	0.003
		pyrite, tr. magnetite. No significant epidote, & tr. chlorite.	3994	9.1-12.2	30-40	3.05	10	0.003
		3.0-6.1m (10'-20') - k-feldspar decrease (1-2%)	3995	12.2-15.2	40-50	3.05	10	0.003
		6.1-9.1m (20'-30') - k-feldspar increase (3-5%)	3996	15.2-18.3	50-60	3.05	10	0.005
		9.1-12.2m (30'-40') - Sericite increase (1-2%), chlorite (0.5-1%)	3997	18.3-21.3	60-70	3.05	10	0.006
		12.2-21.3m (40'-70') - k-feldspar increase (5-15%), slightly	3998	21.3-24.4	70-80	3.05	10	0.006
		lighter colour.	3999	24.4-27.4	80-90	3.05	10	0.006
		21.3-27.4m (70'-90') - Sericite decrease (0.5-1%)	4000	27.4-30.4	90-100	3.05	10	0.007
		27.4-30.4m (90'-100') - tr. molybdenite	4001	30.4-33.5	100-110	3.05	10	0.012
		30.4-48.8m (100'-160') - no moly noted	4002	33.5-36.6	110-120	3.05	10	0.012
		48.8-61.0m (160'-200') - k-feldspar decrease (5-7%)	4003	36.6-39.6	120-130	3.05	10	0.008
		61.0-64.0m (200'-210') - k-feldspar decrease (2-3%)	4004	39.6-42.7	130-140	3.05	10	0.006
		64.0-73.2m (210'-240') - k-feldspar increase (10-15%), sericite	4005	42.7-45.7	140-150	3.05	10	0.004
		decrease (<0.5%)	4006	45.7-48.8	150-160	3.05	10	0.002
		73.2-76.2m (240'-250') - No pyrite noted	4007	48.8-51.8	160-170	3.05	10	0.005
		76.2-91.4m (250'-300') - tr. pyrite	4008	51.8-54.9	170-180	3.05	10	0.006
			4009	54.9-57.9	180-190	3.05	10	0.004
			4010	57.9-61.0	190-200	3.05	10	0.003
			4011	61.0-64.0	200-210	3.05	10	0.003
			4012	64.0-67.1	210-220	3.05	10	0.002
			4013	67.1-70.1	220-230	3.05	10	0.002
			4014	70.1-73.2	230-240	3.05	10	0.002
			4015	73.2-76.2	240-250	3.05	10	0.002
			4016	76.2-79.2	250-260	3.05	10	0.002
			4017	79.2-82.3	260-270	3.05	10	0.003
			4018	82.3-85.3	270-280	3.05	10	0.003
			4019	85.3-88.4	280-290	3.05	10	0.003
			4020	88.4-91.4	290-300	3.05	10	0.002

-  MARY-O GROUP
-  CA 4
-  CA 2
-  MARC



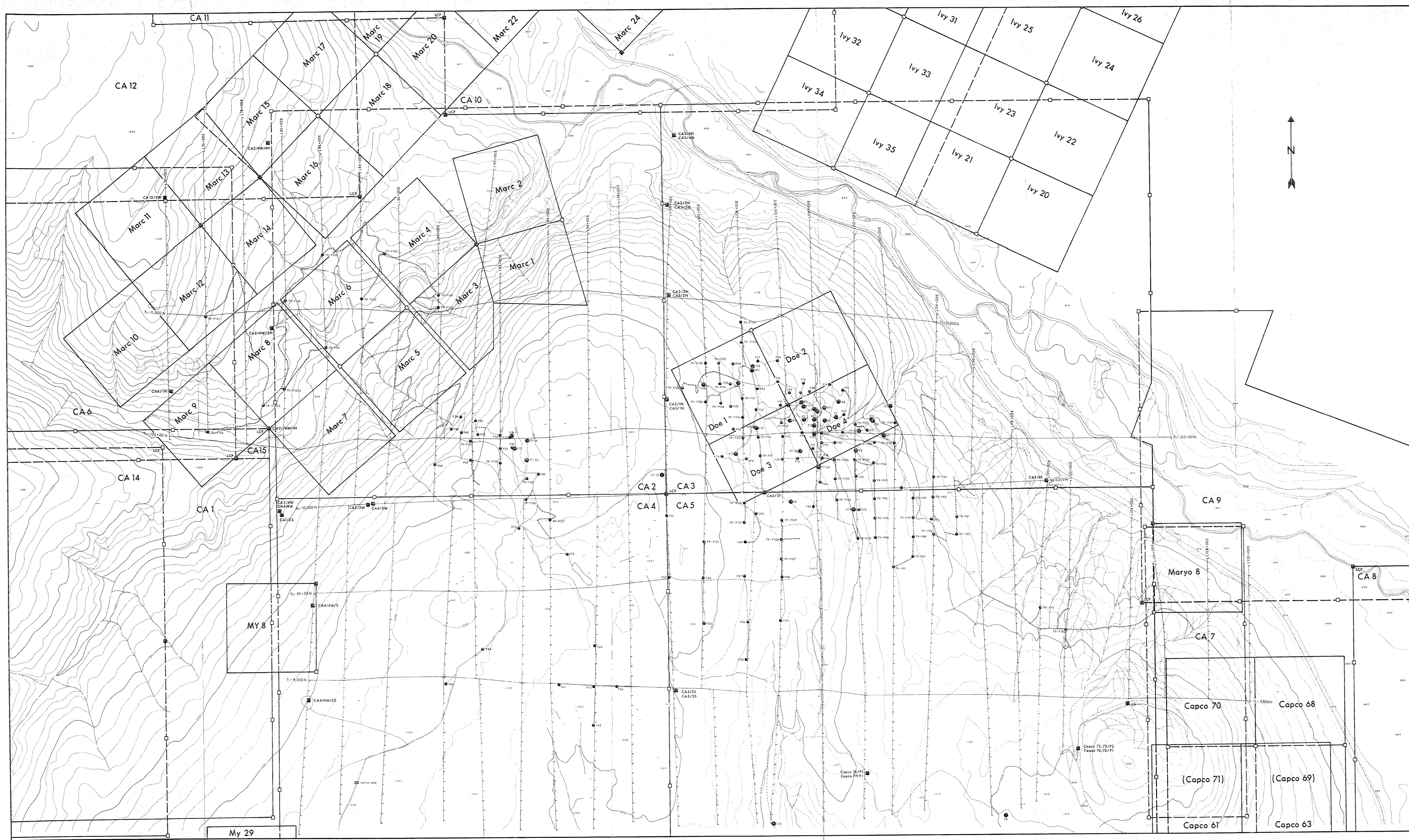
# CARMI MOLYBDENUM PROPERTY

CARMI B.C.  
CLAIMS

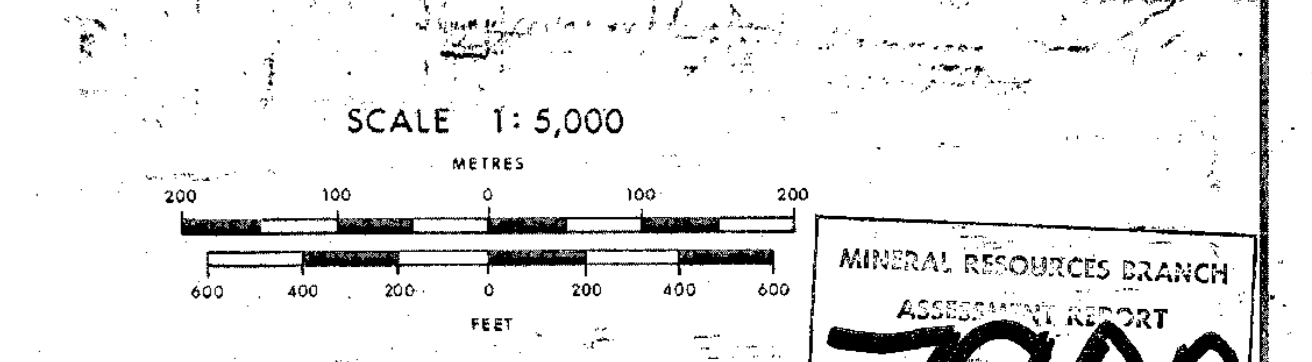
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0 500m 1000m Figure 2

UNION OIL CO. OF CANADA LTD.



- LEGEND**
- Main Access Road
  - Drill Site / Logging Access Roads
  - 1979 Constructed Access Roads
  - Claim Boundary (pace and compass)  
(solid line indicates earliest staking)
  - Claim Post (located)
  - Claim Post (not located)
  - Diamond Drill Holes
  - Percussion Drill Holes
  - 1979 Percussion Drill Holes



**uni n** CARMi MOLYBDENUM PROPERTY  
 CARMi, BRITISH COLUMBIA  
**CLAIM, ROAD  
 and  
 DRILL HOLE PLAN**

**7900**  
 part 1 & 2

Figure 3