

ASSESSMENT REPORT COVER SHEET

Name ..... Fig. .... No. ....

Mining Inventory Nos. .... NTS .....

Lat. 50 ° 02 ' Long 115 ° 46 ' NTS 82J14W

Mining Division Golden Location 14 km SSE of

Canal Flats, BC 3 km ENE of the  
junction of Copper Cr with Kootenay River

Claims (Central Records) ..... (Pond 1-3,

Claims (total) Pond 1-3 (4, 4 & 6 units)

Owner 1. Cominco Ltd. 2. ....

Address Box 2000, Kimberley BC, V1A 2G3

Operator 1. Same 2. ....

10,079

SULLIVAN MINE

COMINCO LTD.

KIMBERLEY, B.C.

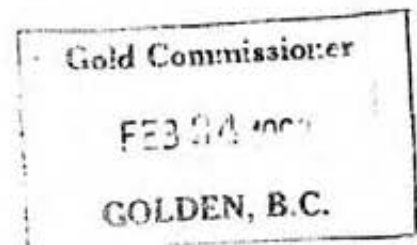
POND GROUP ASSESSMENT REPORT

The following report describes the results of drilling diamond drill holes P-81-3, 124.05 metres long; P-81-4, 96.60 metres long; P-81-5, 120.70 metres long; P-81-6, 98.60 metres long; P-81-7, 41.45 metres long; P-81-8, 125.91 metres long, and analyses obtained in these holes and in holes P-81-1 and P-81-2, reported on previously, all drilled in the Canal Flats area on the Pond Mineral claims.

The NTS Location is 84 J/4.

Coordinates of the holes are:

D.D.H. P-81-1	U.T.M. Easting Northing	588950 M 5542050 M
D.D.H. P-81-2	U.T.M. Easting Northing	588950 M 5542200 M
D.D.H. P-81-3	U.T.M. Easting Northing	588900 M 5542280 M
D.D.H. P-81-4	U.T.M. Easting Northing	588770 M 5542000 M
D.D.H. P-81-5	U.T.M. Easting Northing	588830 M 5542150 M
D.D.H. P-81-6	U.T.M. Easting Northing	588600 M 5545150 M
D.D.H. P-81-7	U.T.M. Easting Northing	588400 M 5545050 M
D.D.H. P-81-8	U.T.M. Easting Northing	589000 M 5542100 M

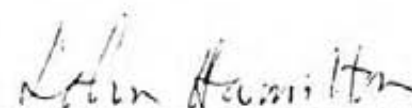


Cominco Ltd., owner of the claims was the operator of the exploration program.

N.R. Watson is author of this report.

Date of Submission: November 1981

Endorsed For  
Release By:

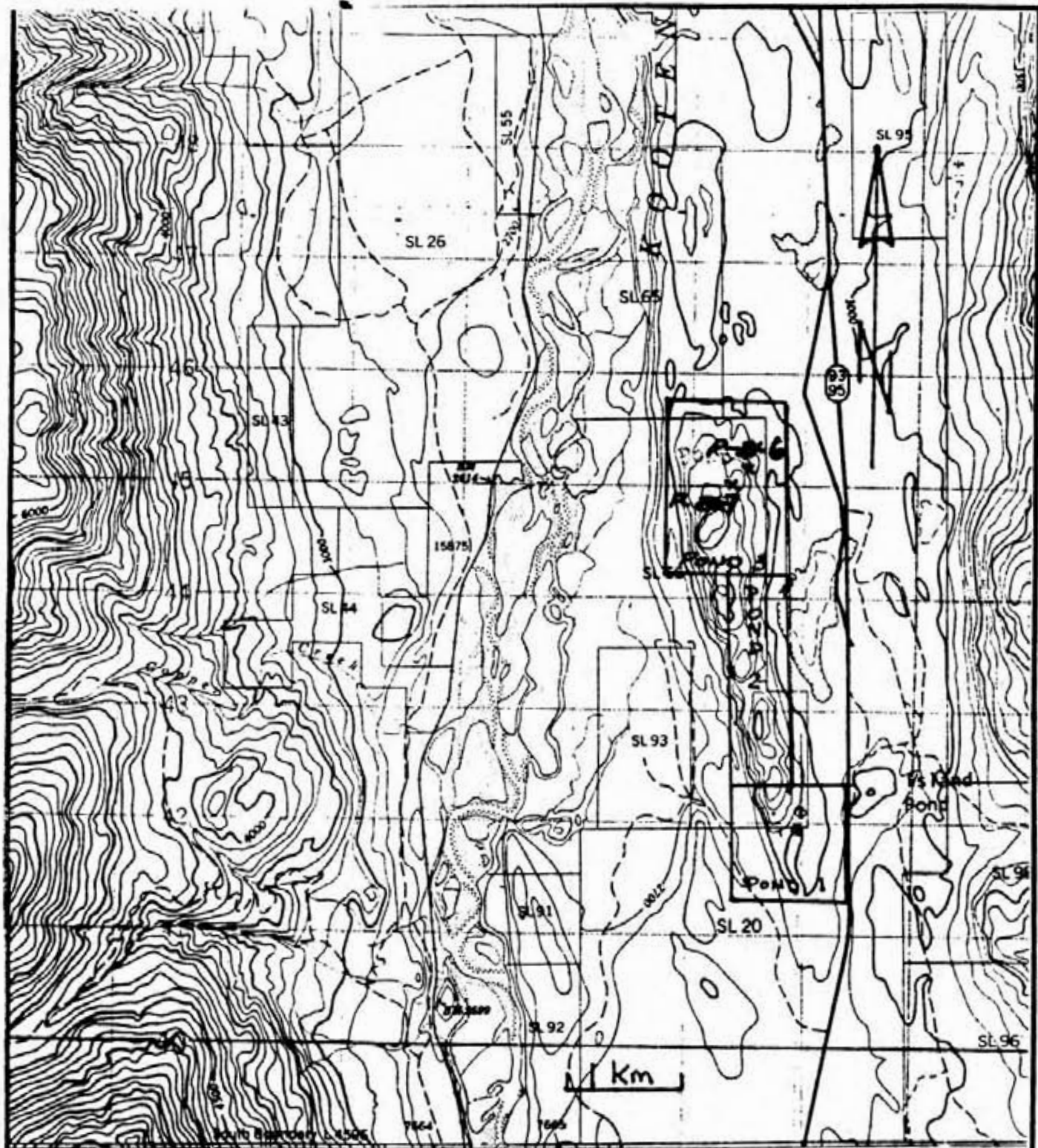
  
\_\_\_\_\_  
J.M. Hamilton, P. Eng.  
Chief Geologist, Kimberley

/db


TABLE OF CONTENTS

PAGE 1

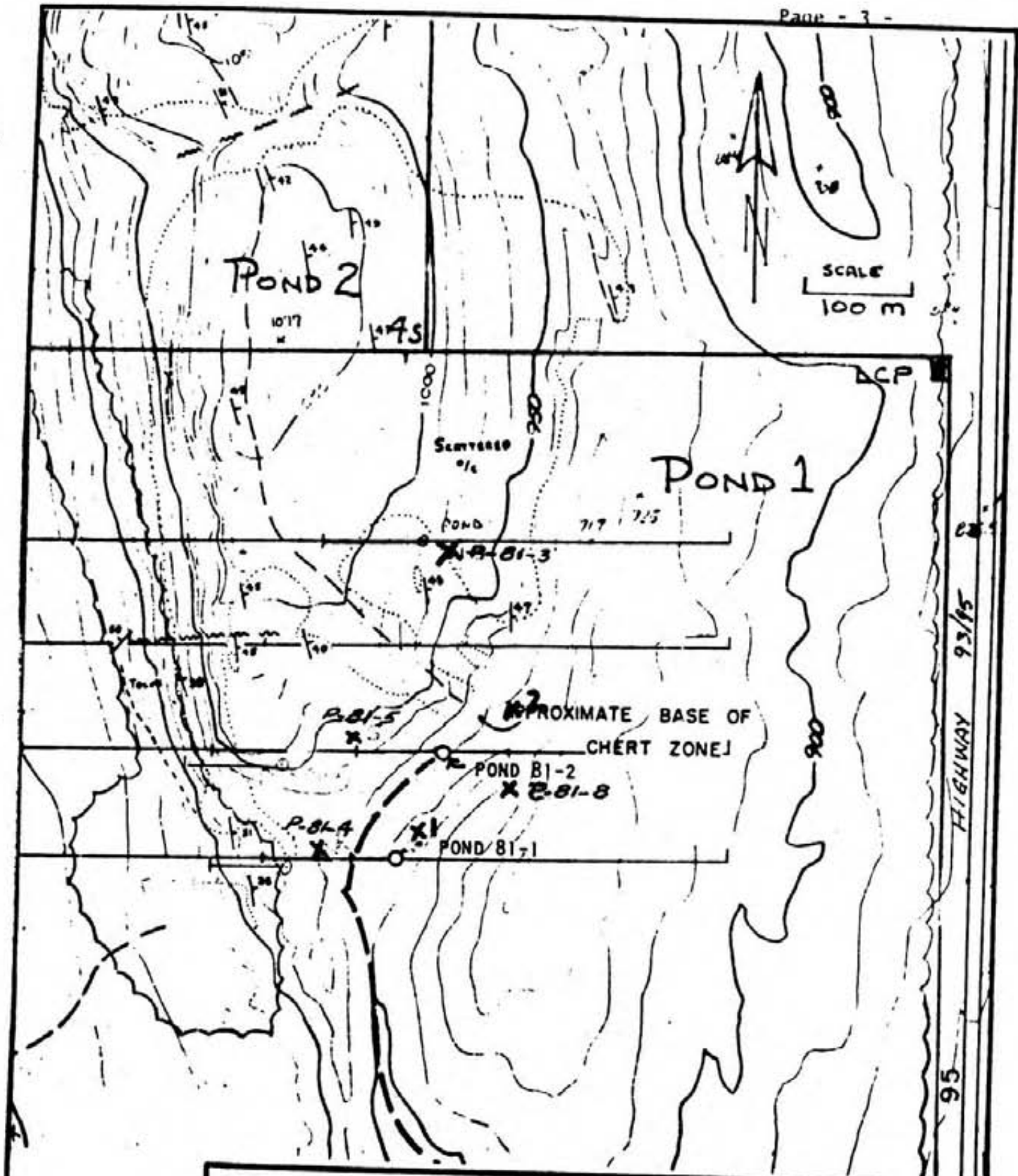
	<u>PAGE</u>
TABLE OF CONTENTS	1
INDEX MAP	2
POND DRILLING SURFACE PLAN	3
INTRODUCTION	4
DETAILED TECHNICAL DATA AND INTERPRETATION	5 - 12
AUTHOR'S QUALIFICATIONS	13
ITEMIZED COST STATEMENT	14
DRILL CONTRACTORS INVOICES	15 - 28
DRILL LOGS	29 - 56
CHEMICAL ANALYSES	57 - 63



50 50' 55 60 65 70 75 80 85 90 95 100  
 Colwell Junction Shokamchuk 8 mi 13 km

					
Iss'd To:	Date:	<b>POND DRILLING</b> <b>INDEX MAP</b> DDCH P-81-6, P-81-7			
		Drawn by:	Scale:	Date:	Plate:
		PWR	1:50,000	March, 1981	





Iss'd To:	Date:

**POND DRILLING**  
**SURFACE PLAN**  
 DDCH P-81-3, P-81-4, P-81-5, P-81-8

Drawn by: PWR    Scale: 1:5000    Date: March 1981    Plate:

## INTRODUCTION

### i/ Specific Location

D.D.H.s P-81-1 to P-81-5 and P-81-8 are located 0.6 km due west of Island Pond which occurs along the east side of highway 93/95, midway between Skookumchuck and Canal Flats. Access is by a narrow road that joins highway 93/95 1.5 km south of Island Pond. D.D.H.s P-81-6 and P-81-7 are located 3 km on azimuth 340 from the island in Island Pond. Access is by temporary tote trail and bush road off the old 93/95 highway.

### ii/ Property Definition

The property being investigated is the Pond 1, Pond 2 and Pond 3 Claim group. It was acquired by Cominco Ltd. in 1980. Dolomite on the property is being considered as a source of magnesium metal.

iii/ Six diamond drill holes and analyses from two others are being reported on in this report. D.D.H. P-81-3 was drilled to a depth of 124.05 metres using BQ wireline tools, 6.0 cm in diameter. D.D.H. P-81-4 was drilled to a depth of 96.60 metres using BQ wireline tools, 6.0 cm in diameter. D.D.H. P-81-5 was drilled to a depth of 120.70 metres using BQ wireline tools, 6.0 cm in diameter. D.D.H. P-81-6 was drilled to a depth of 3.65 metres using HQ wireline tools, 9.6 cm in diameter and from 3.65 metres to 98.60 metres using BQ wireline tools, 6.0 cm in diameter. D.D.H. P-81-7 was drilled to a depth of 3.65 metres using HQ wireline tools, 9.6 cm in diameter and from 3.65 metres to 41.45 metres using BQ wireline tools, 6.0 cm in diameter. P-81-8 was drilled to a depth of 125.91 metres using NQ wireline tools, 7.6 cm in diameter.

iv/ Diamond Drill Holes P-81-3, P-81-4, P-81-5 and P-81-8 were drilled on the Pond 1 Mineral Claim. Diamond Drill Holes P-81-6 and P-81-7 were drilled on the Pond 3 Mineral Claim.

DETAILED TECHNICAL DATA AND INTERPRETATION

D.D.H. Pond 81-1

i/ Purpose

The purpose of D.D.H. Pond 81-1 was to obtain information on a known occurrence of dolomite as a possible source of magnesium metal.

ii/ Results

Dolomite was cored from the base of overburden to the end of the hole at 64 metres, the target depth. Silica content from 3.65 to 43.65 metres is 0.67% and from 43.65 to 64.00 metres is 1.36%.

iii/ Interpretation

0 - 3.7 m      Overburden

3.7 - 64.0 m    Dolostone

Light grey to medium and dark bluish grey dolostone varying from very fine-grained crystalline to medium-grained or micritic. Layering varies from distinct to vague to discontinuous lenses. Minor brecciation is accompanied by secondary white dolomite. Minor reddish-brown staining occurs along fractures.

iv/ Conclusion

D.D.H. Pond 81-1 cored dolomite of the Cambrian Lower Jubilee Formation. The low silica encountered from 3.65 to 43.65 indicates that this interval may be a potential source of magnesium ore.

DETAILED TECHNICAL DATA AND INTERPRETATION

D.D.H. Pond 81-2

1/ Purpose

The purpose of D.D.H. Pond 81-2 was to obtain information on a known occurrence of dolomite as a possible source of magnesium metal.

ii/ Results

Dolomite was cored from the base of overburden to the end of the hole at 104.5 metres, the target depth. Silica content from 3.65 to 23.65 metres is 1.55% and from 23.65 to 104.55 metres is 0.56%.

iii/ Interpretation

0-3.7 m Overburden

3.7-32 m Blue grey mottled fine to very fine crystalline dolostone. Bedding plane contacts are irregular and gradational. Black to light grey chert lenses having irregular boundaries occur locally. Fine to medium quartz grains are commonly noted in association with the chert lenses. Minor reddish-brown hematite staining occurs along fractures.

32-54.5 m Dolostone similar to the preceding but none distinctly and regularly layered. The only chert noted occurs at 40.5 m.

54.5-104.5m Dolostone similar to the preceding varying from massive to vaguely-bedded to well-bedded. The only chert noted occurs at 82 m.

iv/ Conclusion

D.D.H. Pond 81-2 cored dolomite of the Cambrian Lower Jubilee Formation. The low silica encountered from 23.65 to 104.55 metres indicates that this interval may be a potential source of magnesium ore.



DETAILED TECHNICAL DATA AND INTERPRETATION

D.D.H. P-81-3

i/ Purpose

The purpose of D.D.H. P-81-3 was to obtain information on a known occurrence of dolomite as a possible source of magnesium metal.

ii/ Results

Dolomite was cored from the base of overburden at 3.35 metres to the end of the hole at 124.05 metres, the target depth. Silica content from 3.65 to 83.35 metres is 4.0% and from 83.35 to 124.05 metres is 0.84%.

iii/ Interpretation

0 - 3.35 m      Overburden and casing

3.35 - 124.05 m      Dolostone

Light to medium blue gray, fine crystalline, mottled and weakly banded intervals alternate with more massive annealed breccias with secondary white dolomite fracture fillings. Chert occurs in the hole down to 69 metres and minor reddish-brown staining occurs along fractures and stylitic contacts.

iv/ Conclusion

D.D.H. P-81-3 cored dolomite of the Cambrian Lower Jubilee Formation. The low silica interval is too deep to be considered a potential source of magnesium ore.

DETAILED TECHNICAL DATA AND INTERPRETATION

D.D.H. P-81-4

i/ Purpose

The purpose of D.D.H. P-81-4 was to obtain information on a known occurrence of dolomite as a possible source of magnesium metal.

ii/ Results

Dolomite was cored from the base of overburden at 15.85 metres to the end of the hole at 96.60 metres. The silica content from 15.85 to 75.85 metres is 4.2% and from 75.85 to 96.65 is 0.80%.

iii/ Interpretation

0 - 15.85 m Overburden and casing

15.85 - 96.60 m Dolostone

Light to medium blue gray, fine to medium crystalline, well laminated with zones of more massive to brecciated (healed) dolostone. Laminations are distinct but are irregular with wavy, contorted boundaries. Secondary white dolomite is associated with minor brecciation. Minor dark blue-black chert is recognizable in the upper part of the hole. Hematite occurs on surfaces of stylitic contacts and on a few fracture surfaces.

iv/ Conclusion

D.D.H. P-81-4 cored dolomite of the Cambrian Lower Jubilee Formation. There is insufficient low-silica dolomite in this hole for consideration as a possible source of magnesium ore.

DETAILED TECHNICAL DATA AND INTERPRETATION

D.D.H. P-81-5

i/ Purpose

The purpose of D.D.H. P-81-5 was to obtain information on a known occurrence of dolomite as a possible source of magnesium metal.

ii/ Results

Dolomite was cored from the base of overburden at 10.20 metres to the end of the hole at 120.70 metres. Silica content from 10.2 to 70.2 metres is 0.92% and from 70.2 to 120.73 metres is 4.7%.

iii/ Interpretation

0 - 10.20 m Overburden and casing

10.20 - 120.70 m Dolostone

Light to medium blue gray, fine crystalline, well laminated with zones that are faintly laminated and more massive looking. The distinct laminations are often irregular with wavy, contorted boundaries. Secondary white dolomite is associated with minor brecciation in the more massive zones. Minor hematite staining is evident on fracture surfaces and along stylolitic contacts.

iv/ Conclusion

D.D.H. P-81-5 cored dolomite of the Cambrian Lower Jubilee Formation. The silica content from 10.2 to 70.2 metres is marginally high, however, with selective mining, it may be possible to obtain some magnesium ore from this interval.

DETAILED TECHNICAL DATA AND INTERPRETATION

D.D.H. P-81-6

i/ Purpose

The purpose of D.D.H. P-81-6 was to obtain information on a known occurrence of dolomite as a possible source of magnesium metal.

ii/ Results

Dolomite was cored from the base of overburden at 1.5 metres to the end of the hole at 98.60 metres. Silica content from 3.65 to 23.65 metres is 0.63% and from 23.65 to 98.60 metres is 1.2%.

iii/ Interpretation

0 - 1.5 m      Overburden and casing

1.5 - 98.60 m Dolostone

Light to medium gray; much of the core is colored pinkish to dull reddish brown from iron oxide staining. The entire hole is brecciated dolostone and fine crystalline throughout.

iv/ Conclusion

D.D.H. P-81-6 cored dolomite of the Cambrian Lower Jubilee Formation. There is insufficient low silica dolomite to consider any of the dolomite cored in P-81-6 as a possible source of magnesium ore at this time.

DETAILED TECHNICAL DATA AND INTERPRETATION

D.D.H. P-81-7

i/ Purpose

The purpose of D.D.H. P-81-7 was to obtain information on a known occurrence of dolomite as a possible source of magnesium metal.

ii/ Results

Dolomite was cored from the base of overburden at 1.5 metres to the end of the hole at 41.45 metres. The hole was abandoned before reaching the target depth. The silica content from 3.65 to 41.45 metres is 0.63%.

iii/ Interpretation

0 - 1.5 m      Overburden and casing

1.5 - 41.45 m   Dolostone

Light gray to medium blue-gray, fine crystalline; the first part of the hole is massive to locally brecciated and the last 25 metres is well-laminated with wavy and often discontinuous laminations. Secondary white dolomite and calcite are associated with the breccia.

iv/ Conclusion

D.D.H. P-81-7 cored dolomite of the Cambrian Lower Jubilee Formation. Insufficient dolomite was cored to evaluate the magnesium potential in this area.



DETAILED TECHNICAL DATA AND INTERPRETATION

D.D.H. P-81-8

i/ Purpose

The purpose of D.D.H. P-81-8 was to obtain information on a known occurrence of dolomite as a possible source of magnesium metal.

ii/ Results

Dolomite was cored from the base of overburden at 10.36 m to the end of the hole at 125.91 metres.

iii/ Interpretation

0 - 10.36 m Overburden and casing

10.36 - 125.91 m Dolostone

Light grey to medium and dark grey dolostone varying from very fine crystalline to medium crystalline. Core is made up of massive dolostone with vague laminations alternating with well laminated section with some discontinuous lenses. Secondary white dolomite is most abundant in well-laminated intervals. Minor yellowish-brown staining occurs along fractures.

iv/ Conclusion

D.D.H. P-81-8 cored dolomite of the Cambrian Lower Jubilee Formation.

AUTHOR'S QUALIFICATIONS

As author of this report, I, Nancy R. Watson certify that I am employed by Cominco Ltd. as a geologist active in minerals exploration.

I am a graduate of the University of Washington with a degree of Bachelor of Science.

I have been engaged in geology and mining exploration for four years.

Nancy R. Watson

Nancy R. Watson

COMINCO LTD.

Kimberley, B.C.

COST SUMMARY

POND 1,2,3 GROUP MINERAL CLAIMS  
DDCH'S P-81-3,4,5,6,7,8

Acadia Drilling	
Invoice #829	\$47,911.24
Invoice #830 (credit)	-\$ 2,450.00
Frontier Drilling Ltd.	\$34,704.88
Invoice dated 81/10/10	
Less DDCH K-81-7	
248' x \$34,704.88 =	-\$13,726.97
<u>627'</u>	
Cominco Expenditure:	
Cat & Operator - Site Preparation	\$ 3,928.00
and Drill Moves	
Core Boxes	\$ 343.00
Geological Supervision & Core Logging	\$ 3,000.00
Truck Rental (March 1-20/81)	\$ 800.00
Analysis Charges	<u>\$ 5,695.00</u>
 TOTAL EXPENDITURE	 \$80,205.00

  
Arthur L. Burrows

A.L. Burrows/ml  
February 11th 1982

*1 order*  
*Five should complete check up*  
*1/1/81*

ACADIA DRILLING INC.  
501 McBride St. W.  
Cranbrook, B.C.  
VIC 4M3

INVOICE

Cominco Ltd.  
P.O. Box 2000  
Kimberly, B.C.  
VIA 2G3

Attention: Mr. John M. Hamilton  
Chief Geologist, Kimberly

TERMS: 30 days  
INVOICE DATE: March 27, 1981  
INVOICE NO. 829  
ORDER NO: S 23985 R *S 23987 R*  
BILLING PERIOD: March 1 - 20, 1981  
JOB LOCATION: Canal Plate area

<u>DESCRIPTION</u>	<u>AMOUNT</u>
<u>Hole # P-81-3</u>	
Drilling Detail	\$ 8,474.29
Materials	203.73
Waiting Time	846.00
Other	1,976.00
	<u>11,500.02</u>
<u>Hole # P-81-4</u>	
Drilling Detail	6,338.27
Materials	210.94
Waiting Time	801.00
Other	494.00
	<u>7,844.21</u>
<u>Hole # P-81-5</u>	
Drilling Details	8,019.76
Waiting Time	780.00
Other	988.00
	<u>9,787.76</u>
<u>Hole # P-81-6</u>	
Drilling Details	6,458.32
Materials	31.16
Waiting Time	4,913.00
Other	1,505.00
	<u>12,907.48</u>
<u>Hole # P-81-7</u>	
Drilling Details	2,658.77
Waiting Time	2,459.00
Other	754.00
	<u>5,871.77</u>
	<u>\$ 47,911.24</u>

*Charged 6114.*

*Sent in Apr 9/81*





ACADIA DRILLING INC.  
Calculations  
March 1 to 20, 1981, Billing

OTHER

Hole # P-81-3

Mar. 1 - 2 pumps @ \$22.00 /day each ✓	\$ 44.00 ✓
" 1 - Water truck rental ②	450.00 ✓
Mar. 2 - 2 pumps @ \$22.00 /day each ✓	44.00 ✓
" 2 - Water truck rental ②	450.00 ✓
Mar. 3 - 2 pumps @ \$22.00 /day each ✓	44.00 ✓
" 3 - Water truck rental ②	450.00 ✓
Mar. 4 - 2 pumps @ \$22.00 /day each ✓	44.00 ✓
" 4 - Water truck rental ②	450.00 ✓
	<hr/>
	\$ 1,976.00

Hole # P-81-4

Mar. 5 - 2 pumps @ \$22.00 /day each ✓	\$ 44.00 ✓
" 5 - Water truck rental ②	450.00 ✓
	<hr/>
	\$ 494.00

Hole # P-81-5

Mar. 6 - 2 pumps @ \$22.00 /day each ✓	\$ 44.00 ✓
" 6 - Water truck rental ②	450.00 ✓
Mar. 7 - 2 pumps @ \$22.00 /day each ✓	44.00 ✓
" 7 - Water truck rental ②	450.00 ✓
	<hr/>
	\$ 988.00

② Agreed rate was \$100/day as truck used as reservoir only, not hauling

Hole # P-81-6

Mar. 9 - Truck rental - 7 hrs. @ 548.00 /hr. ✓	\$ 336.00 ✓
Mar. 10 - Water truck rental ✓	450.00 ✓
Mar. 11 - Water truck rental ✓	450.00 ✓
Mar. 12 - Water truck rental (1/2 day) ✓	225.00 ✓
Mar. 13 - Pump rental ✓	22.00 ✓
Mar. 14 - Pump rental ✓	22.00 ✓
	<hr/>
	\$ 1,505.00

Hole # P-81-7

Mar. 15 - Pump rental ✓	\$ 22.00 ✓
Mar. 16 - 2 pumps @ \$22.00 /day each ✓	44.00 ✓
Mar. 17 - 2 pumps @ \$22.00 /day each ✓	44.00 ✓
Mar. 18 - 2 pumps @ \$22.00 /day each ✓	44.00 ✓
Mar. 20 - Demobilization fee (1 x \$1,200.00) ✓	600.00 ✓
	<hr/>
	\$ 754.00

overcharge Mar 1-7  
 undercharge  
 7 days o/c @ 350.00 = 2450.00  
 Feb. 27-28  
 2 days u/c @ 44.00 = 88.00  
 Credit due Comigo \$ 2362.00

ACADIA DRILLING INC.  
Calculations  
March 1 to 20, 1981, Billing

WAITING TIME	Rig and 2 Men (\$64.00 / Hr)	Extra Labour (\$21.00 / Hr)	
<u>Hole # P-81-3</u>			
Mar. 1 - Reaming	2 ✓		\$ 128.00 ✓
" 1 - Reset rig	2 ✓		128.00 ✓
Mar. 2 - Pump man		11 ✓	231.00 ✓
Mar. 3 - Pump man		11 ✓	231.00 ✓
Mar. 4 - Casing	2 ✓		128.00 ✓
	<u>6</u>	<u>22</u>	<u>\$ 846.00</u>
<u>Hole # P-81-4</u>			
Mar. 4 - Move, set up		18 ✓	\$ 378.00 ✓
Mar. 5 - Reaming	3 ✓		192.00 ✓
" 5 - Pump man		11 ✓	231.00 ✓
	<u>3</u>	<u>29</u>	<u>\$ 801.00</u>
<u>Hole # P-81-5</u>			
Mar. 6 - Reaming	3 ✓		\$ 192.00 ✓
" 6 - Move, set up		12 ✓	252.00 ✓
Mar. 7 - Dismantle water line		16 ✓ <i>check</i>	336.00 ✓
	<u>3</u>	<u>28</u>	<u>\$ 780.00</u>
<u>Hole # P-81-6</u>			
Mar. 8 - Move, set up		27 ✓	\$ 567.00 ✓
Mar. 9 - Move, set up		46 ✓	966.00 ✓
Mar. 10 - Move, set up		15 ✓	315.00 ✓
" 10 - Install water line		16 ✓	336.00 ✓
Mar. 11 - Install water line		14 ✓	294.00 ✓
" 11 - Condition hole	2 ✓		128.00 ✓
Mar. 12 - Condition hole	4 ✓		256.00 ✓
" 12 - Delays with water truck	8 ✓		512.00 ✓
Mar. 13 - Install water line		43 ✓ <i>check</i>	903.00 ✓
Mar. 14 - Install water line		12 ✓	252.00 ✓
" 14 - Condition hole	6 ✓		384.00 ✓
	<u>20</u>	<u>173</u>	<u>\$ 4,913.00</u>
<u>Hole # P-81-7</u>			
Mar. 15 - Move, set up		40 ✓	\$ 840.00 ✓
" 15 - Install water line		3 ✓	63.00 ✓
Mar. 16 - Move, set up		21 ✓	441.00 ✓
" 16 - Install water line		3 ✓	63.00 ✓
" 16 - Condition hole	2 ✓		128.00 ✓
Mar. 19 - Dismantle water line		12 ✓	252.00 ✓
Mar. 20 - Dismantle & move rig		32 ✓	672.00 ✓
	<u>2</u>	<u>111</u>	<u>\$ 2,459.00</u>

ACADIA DRILLING INC.  
501 McBride St. W.  
Cranbrook, B.C.  
VIC 4H3

CREDIT NOTE

Cominco Ltd.  
P.O. Box 2000  
Kimberley, B.C.  
VIA 2G3

Attention: Mr. Bill Cartwright  
Geology Department

INVOICE DATE: March 31, 1981

INVOICE NO.: 830

ORDER NO.: ~~S 23363 R~~ S23987 R

BILLING PERIOD: February 22 - March 20, 1981

JOB LOCATION: Canal Flats area

ADJUSTMENTS

~~Invoice No. 828~~

~~Hole #P-81-2~~

~~February 27 & 28 - To charge your account for 2  
pumps for 2 days at \$22.00 per pump per day~~

~~\$ 88.00~~ ✓

Invoice No. 829

To credit your account for excess water truck rental  
charged from March 1 - March 7 inclusive at \$350.00  
per day (charged \$450.00, agreed on \$100.00)

Hole #P-81-3

Hole #P-81-4

Hole #P-81-5

\$ (1,400.00) ✓  
( 350.00) ✓  
( 700.00) ✓ (2,450.00)

(CREDIT)

~~\$(2,362.00)~~  
\*\*\*\*\*

PERIOD: October 1 - 9, 1981

DATE: October 10, 1981

FIELD INVOICE STATEMENT

FRONTIER DRILLING LTD.  
P.O. Box 689  
Winfield, B.C., V0H 2C0

JOB: Cominco 81-8

LOCATION: Skookemchuck, B.C.

IN ACCOUNT WITH: Cominco Ltd.  
P.O. Box 2000  
Kimberly, B.C.

P.O. 501987R

PART ONE:	TOTAL DRILL FOOTAGE COST	\$13,961.20	✓
PART TWO:	TOTAL EXTRA CONTRACT CHARGES	\$18,926.73	✓
PART THREE:	TOTAL MOBILIZATION - DEMOBILIZATION CHARGES	\$ 1,200.00	✓
	TOTAL INVOICE	\$34,087.93	✓
	Footage Compensation	\$ <del>974.79</del> 616.95	
	Total Invoice	<u><u>\$35,062.92</u></u> 34,704.88	

PART ONE - PAGE ONE  
DRILL FOOTAGE CHARGES

CASING			CORING			REAMING CASING				
HOLE NUMBER	FROM	TO	TOTAL	FROM	TO	TOTAL	FROM	TO	TOTAL	
K81-7	0	7	7 ✓	7 ✓	255	248 ✓				
P81-8	0	34	34 ✓	34 ✓	413	379 ✓				
	Total		41 ✓	Total		627 ✓				
			41 X \$20.90 = \$856.90				627 X \$20.90 = \$13,104.30			
<i>COST SPLIT</i>										
K81-7			\$146.30			5183.20				
P81-8			710.60			7921.10				
CASTING TOTAL			CORING TOTAL			REAMING TOTAL				

TOTAL CASING CHARGES	\$ 856.90 ✓	K81-7	
TOTAL CORING CHARGES	\$13,104.30 ✓	P81-8	
TOTAL REAMING CHARGES	-		
TOTAL DRILL FOOTAGE CHARGES	\$13,961.20 ✓	\$5329.20	\$8631.70



PART ONE - PAGE ONE  
DRILL FOOTAGE CHARGES

HOLE NUMBER	CASING			CORING			REAMING CASING		
	FROM	TO	TOTAL	FROM	TO	TOTAL	FROM	TO	TOTAL
<del>K81-7</del>	0	7	7 ✓	7	255	248 ✓			
PA1-9	0	34	34 ✓	34	413	379 ✓			
	total		41 ✓	Total		627 ✓			
	41 X \$20.90 = \$856.90			627 X \$20.90 = \$13,104.30					
CASTING TOTAL				CORING TOTAL			REAMING TOTAL		

TOTAL CASING CHARGES

\$ 856.90 ✓

TOTAL CORING CHARGES

\$13,104.30 ✓

TOTAL REAMING CHARGES

-

TOTAL DRILL FOOTAGE CHARGES

\$13,961.20 ✓

PART TWO - PAGE ONE

EXTRA CONTRACT CHARGES

(A) FIELD COST CHARGES

DATE	SHIFT	MAN HOURS	DRILL HOURS	TRACTOR HOURS	TRUCK HOURS	MUD-MIXER	TRAVEL TIME
MO.		RATE	RATE 22.50	RATE 35.00	RATE	RATE	RATE 22.50
Oct.							
1	D	33 ✓	11 ✓				1.5 ✓
1	N	4 ✓	2 ✓				1 ✓
2	D	9 ✓	4 ✓				1 ✓
2	N	4 ✓	2 ✓				1 ✓
3	D	4 ✓	2 ✓				1 ✓
3	N	12 ✓	6 ✓				1 ✓
4	D	10 ✓	5 ✓				1 ✓
4	N	10 ✓	5 ✓				1 ✓
5	D	45 ✓	11 ✓				2.5 ✓
6	D	27 ✓	5 ✓				
8	D	2 ✓	1 ✓				
8	N	9 ✓	4 ✓				
9	D	36 ✓	6 ✓				
	Total	203 ✓	64 ✓				11 ✓

MAN-HOURS 203 X \$22.50 = \$4,567.50 ✓

TRUCK HOURS \_\_\_\_\_

DRILL HOURS 64 X \$35.00 = \$2,240.00 ✓

MUD-MIXER \_\_\_\_\_

TRACTOR HOURS \_\_\_\_\_

TRAVEL TIME 11 X \$22.50 = \$247.50 ✓

PART TWO - PAGE TWO

SUPPLIES AND OTHER SERVICES

B. SERVICES:

HOLE TESTING	TESTS @	_____
MEALS (CAMP)	@	_____
MISC. RENTALS	@	_____
OTHER	@	_____
TOTAL SERVICES		=====

C. SUPPLIES:

i) DRILL BITS CHARGED:

13 NQ bits @ \$522.00 = \$ 6,786.00	_____	_____
248 feet @ \$2.80 = \$694.40	_____	_____
Cost over \$2.80 = \$ 6,091.60 plus 15% = \$7,005.34	_____	\$7,005.34
TOTAL BITS		=====

*accept as stated*

ii) OTHER DIAMOND PRODUCTS:

2 NW casing shoes @ \$337.05	_____	\$ 674.10
2 NQ reamer shells @ \$422.69	_____	\$ 845.38
TOTAL OTHER DIAMONDS		=====

iii) DRILLING TOOLS LOST OR DAMAGED:

11 NQ 10' drill rods @ \$146.63	_____	\$1,612.93
1 10' NW casing (81-5A) @ \$153.50 plus 15%	_____	176.53
1 complete NQ outer tube assembly @ \$501.96	_____	501.96
1 5' NW casing (81-7) @ \$83.25 plus 15%	_____	101.49
TOTAL TOOLS		=====

PART TWO - PAGE THREE

iv) MUD AND ADDITIVES:

✓	4 alcomer polymer @ \$186.00 plus 15%=\$213.90	\$ 855.60
✓	8 quil gel @ \$10.70 plus 15% = \$12.30	\$ 98.40
	_____	_____
	_____	_____
	_____	_____
	_____	_____
	TOTAL MUD	\$ 954.00

v) FUEL, CORE BOXES, OTHER:

FUEL	_____	_____
_____	_____	_____
CORE BOXES	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
	TOTAL FUEL, CORE BOXES, ETC.	_____

TOTAL SECTION A.	<del>\$ 7,055.00</del> ✓
TOTAL SECTION B.	-
TOTAL SECTION C.	\$11,871.73 ✓
TOTAL SECTIONS A, B, C	\$18,926.73 ✓

PART THREE

MOBILIZATION - DE-MOBILIZATION CHARGES

CHARGES AS PER AGREEMENT 50% of \$2,400.00 flat rate

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TOTAL MOB-DEMOB CHARGES

\$1,200.00 ✓



*Handwritten notes:*  
 Done 10/22/81  
 L.H.

Sullivan Mine  
 Oct. 22, 1981



Kimberley Operations

Mr. Harold Harvey, President  
 Frontier Drilling Ltd.  
 Box 689  
 Winfield, B.C.  
 VOH 2C0

*Handwritten:* S 01987 R

Dear Sir:

Re: Your invoices dated October 8 and 10, 1981.

I have today approved the above invoices for payment in the following amounts:

Inv. Date	Amt. Invoiced	Amt. Approved	Difference
Oct. 8/81	\$50,263.96	\$48,989.66	\$1,274.30
Oct. 10/81	\$35,062.92	\$34,704.88	\$ 358.04
Totals	\$85,326.88	\$83,694.54	\$1,632.34

Reasons for these differences are as follows:

October 8 Invoice

On part one page one hole K81-4 is shown as being drilled to 264 ft. but it was only drilled to 262 ft., resulting in a decreased coring charge of \$41.80

On part two page one, two man hours and one drill hour on Sept. 25 night shift are payable but not invoiced, resulting in an increased charge of \$80.00. However, on Sept. 27 a three-man crew was charged for stabilizing, while only a two-man crew is chargeable, resulting in a decreased man-hour charge of \$112.50. Charges for repairs to the drill on Sept. 30 in our opinion, should not be for our account (ref. letter P.W. Ransom to you, Oct. 13) resulting in a decrease of 30 man hours and 15 drill hours or \$1200. Total net decrease \$1232.50

Total difference, October 8 invoice \$1274.30



berley Operations

H.Harvey/J.M. Hamilton/page 2

October 10 Invoice

A footage compensation of \$974.99 is charged,  
and we feel a fair compensation is \$616.95  
(ref. letter, P.W. Ransom to you Oct. 13),  
resulting in a decrease in amount approved  
at this time of

\$358.04

Total difference, both invoices

\$1632.34

I trust these differences and the reasons for them are satisfactory.

Yours truly,

A handwritten signature in cursive script that reads "John Hamilton".

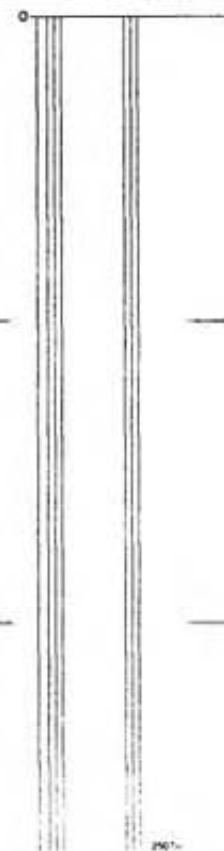
J.M. Hamilton  
Chief Geologist, Kimberley

cc: Accounts Payable  
File

# Diamond Drill Geological Log



Objective: Sample Dolostone For Chemical Analysis		Sampled:		40 Scale	
Logged By: PK		Date: March, 1981		Color Plot & Dips	
Block:		Sect.:		Ore Classes & Aver.	
Piece: Pond 1 Mineral Claim		App. Bear: AZ 270 <sup>0</sup>		App. Dip: -47.5 <sup>0</sup>	
Reason:		Length: 124.05m			
From	To	Discard:			
		Reason:			
		In the following log dolostone is used as the name for a rock composed principally of the mineral dolomite. The use of "dolomite" is restricted to crystalline dolomite.			
0	3.35m	Overburden and casing; no core			
3.35	124.05	Dolostone			
	3.35-4.0m	Massive to brecciated blue-gray fine-grained crystalline dolostone. Moderate brecciation is evident with fractures now recrystallized, some containing irregular elongate patches of white fine-grained dolomite. Small vugs are associated with the white dolomite.			
	4.0-5.5m	Vuggy zone with abundant light gray chert and white crystalline dolomite. Vugs are irregular, generally elongate parallel to bedding (approx. 90 <sup>0</sup> to core axis) and 1-2 cm long. Vugs are typically rimmed initially with light gray chert which forms a layer 1.5-2 mm thick and white dolomite fills or nearly fills the rest of the vug cavity. 40-60% of the interval is white dolomite and chert with 15-20% of this being chert. (Approx. 45 cm of core lost during drilling of this vuggy chert zone)			
	5.5-25.9m	Mottled and weakly banded dolostone; locally an annealed breccia. Medium blue-gray in colour, fine-grained crystalline. Mottled and annealed breccia zones contain 3-5% white dolomite as irregular lace-like intergrowths in the blue-gray dolostone host. Chert is commonly associated with the mottled zones of dolostone, occurring as light grey vug linings (as from 4-5.5m but not as abundant) and narrow vein-like lenses, and as rounded brown to blackish blebs			
		Core Size		Page	
		BQ		1	
		Hole No.		P-81-3	



# Diamond Drill Geological Log



Objective: Sample Dolostone For Chemical Analysis

Sampled:

Logged By: PK

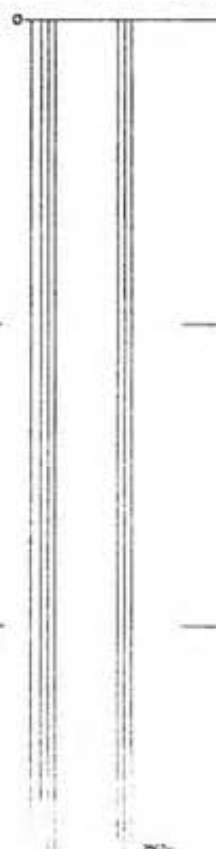
Date: March, 1981

Composites:

Block: Sect: Place: Pond 1 Mineral Claim App. Bear: AZ 270° App. Dip: -47.5° Length: 124.05m

From To Discrete: Reason:

40 Scale  
Color Plot & Dips  
Dra Classes & Aver.



5.5-25.9m cont'd  
associated with white dolomite. Little chert occurs from 5.50-15.25m, it is quite common from 15.25-17.0m and is scattered below 17.0m.  
Banding is defined by slight colour variations; bands are generally 5mm-2cm wide, with irregular boundaries and are commonly discontinuous. Minor white dolomite occurs in the banded intervals.  
Banding is very close to 90° to core axis.

25.9-26.5m Light gray faintly banded dolostone.

26.5-45.4m Variably mottled and weakly banded dolostone. Light to medium blue-gray coloured. Similar to interval 5.5-25.9m. Irregular blotches and rounded blebs of dark blue-gray chert are scattered through the interval. The chert forms an est. 2% of the interval and is generally well distributed although size of individual masses varies from few mm to 78 cm. At 43.0m an 8 cm length of core is about 75% chert.

45.4-51.5m Banded blue-gray dolostone. Bands or layers are typically 3mm-2cm wide, averaging 6-7mm wide. They are defined by slight colour variations, with somewhat sharper boundaries than in overlying intervals. The bands are irregular with contorted or disrupted boundaries, and may be discontinuous. Minor chert, est. 1/2%, occurs as small rounded dark blue-gray blebs, commonly aligned parallel to bedding. 3-5% white dolomite is present as irregular to elongate masses usually less than 1cm across but up to 3 cm long. Narrow veinlets of white dolomite are also present.

Core Size

BQ

Note No.

P-81-3

Page

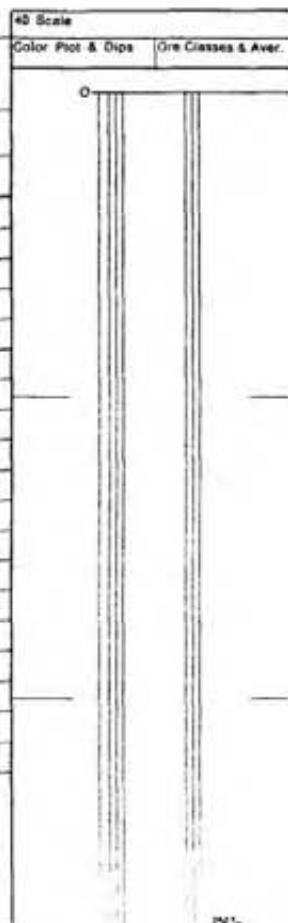
2

Banding is commonly at about 85° to c.a.

# Diamond Drill Geological Log



Objective: Sample Dolostone For Chemical Analysis		Sampled:		40 Scale	
Logged By: PK		Date: March, 1981		Color Plot & Dips	
Composites:		Block:		Core Classes & Aver.	
Sect.:		Place: Pond 1 Mineral Claim		0	
App. Bear: AZ 270°		App. Dip: -47.5°			
Length: 124.05 m					
From	To	Discard:	Reason:		
	51.5-69.8m		<p>Variably weakly banded to mottled light-medium blue-gray fine crystalline dolostone. Predominantly weakly banded with 25-30% of the interval composed of mottled and annealed brecciated dolostone. Lacey white dolomite is more prevalent (3-5%) in mottled dolostone than in weakly banded (about 2%) dolostone.</p> <p>Minor chert is present in the upper part of the interval as rounded but irregular dark blue-gray masses. The lower most recognized occurrence of chert is at 55.2m.</p> <p>The rock becomes increasingly lighter gray coloured downwards, with the lower part of the interval composed of bands of light and medium blue-gray dolostone. Bands are typically at 80°-90° to c.a.</p>		
	69.8-80.5m		<p>Laminated light gray to light and medium blue-gray dolostone. Laminations are quite regular with fairly distinct boundaries, ranging in thickness from 0.2mm to about 2 cm with 1-3 mm thickness most common. Laminations are commonly slightly wavy and many are discontinuous. Lams are at 80°-85° to c.a.</p>		
	80.5-102.7m		<p>Variably mottled and weakly banded light-medium blue-gray fine crystalline dolostone generally similar to zone 51.5-69.8m. Mottled (and annealed braccia) zones comprise 20-25% of the interval - they include about 5% white dolomite as veinlets and irregular lacey intergrowths. The weakly banded intervals contain little white dolomite - 1-2% minor dull red-brown hematite occurs along fracture surfaces and along broken stylolitic contacts. Banding is at 85° to c.a.</p> <p>Core is broken from 95.5 - 102.7 m</p>		
	102.7-102.85m		<p>Calcareous fault breccia. 10-15 cm recovered of brecciated light gray dolostone which is partly cemented by thin veinlets of calcite. Hematite staining is present.</p>	Core Size	80
				Note No.	Page
				P-81-3	3



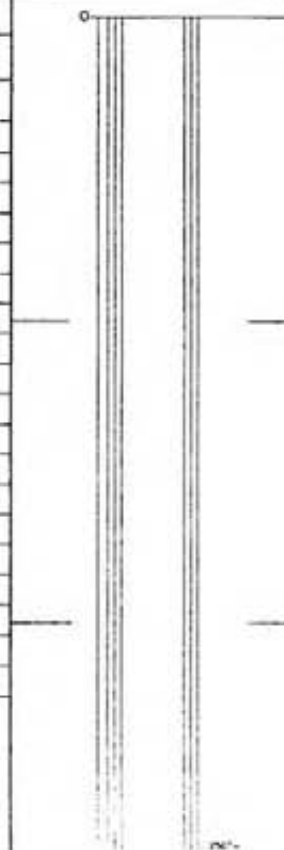
# Diamond Drill Geological Log



Objective: Sample Dolostone For Chemical Analysis		Sampled:	
Logged By: PK		Date: March, 1981	
Block:		Composites:	
Sect.:	Place: Pond 1 Mineral Claim	App. Bear: AZ 270°	App. Dip: -47.5°
From:	To:	Length: 124.05 m	

40 Scale  
Color Plot & Dip  
One Classes & Aver.

From	To	Discard:	Reason:
	102.85-124.05m		Mixed zone of weakly banded, mottled and brecciated (annealed) light-medium blue-gray fine crystalline dolostone. 30-40% of the interval is of mottled or annealed brecciated dolostone, locally with as much as 30% white dolomite occurring as irregular lens-like masses parallel to bedding. Where it is most concentrated the white dolomite is at least in part filling vugs. Banding is much more distinct than in immediately overlying intervals; it is typically irregular and discontinuous. Banding occurs most predominantly at 80°-85° to core axis.
	124.05m		End of Hole.



*Nancy Watson*

Core Size	BQ
Hole No.	P-81-3
Page	4

# Diamond Drill Geological Log



Objective: Sample Dolostone For Chemical Analysis						Sampled:						40 Scale				
Logged By: PK						Date: March, 1981						Color Plot & Dips		One Classes & Aver.		
Block:						Composites:										
Sect.:			Place: Pond 1 Mineral Claim			App. Bear: AZ 270°			App. Dip: -47.5°			Length: 124.05m				
From	To	Discard:			Reason:											
Core Recovery In Feet																
		Length	Recovered	Lost	From	To	Length	Recovered	Lost	From	To	Length	Recovered	Lost		
0	11	11	Casing; no core	-	163.5	166	2.5	2.5	-	314	316	2	2	-		
11	13	2	2	-	166	176	10	10	-	316	318.5	2.5	2.5	-		
13	16	3	1.5	1.5	176	185	9	9	-	318.5	321	2.5	1	1.5		
16	20	4	4	-	185	190	5	5	-	321	325	4	4	-		
20	21.5	1.5	1.5	-	190	196	6	6	-	325	328	3	3	-		
21.5	26	4.5	4.5	-	196	200	4	4	-	328	331	3	2.5	0.5		
26	32	6	5.5	0.5	200	206	6	6	-	331	335	4	2.5	1.5		
32	40	8	8	-	206	216	10	10	-	335	338	3	1.5	1.5		
40	46	6	6	-	216	226	10	10	-	338	346	8	8	-		
46	55	9	9	-	226	236	10	10	-	346	356	10	10	-		
55	65	10	10	-	236	246	10	10	-	356	366	10	10	-		
65	72	7	7	-	246	250	4	4	-	366	376	10	10	-		
72	76	4	4	-	250	252	2	2	-	376	381	5	5	-		
76	86	10	10	-	252	254	2	2	-	381	387	6	6	-		
86	96	10	10	-	254	264.5	10.5	10.5	-	387	397	10	10	-		
96	106	10	10	-	264.5	275	10.5	10.5	-	397	407	10	10	-		
106	116	10	10	-	275	285	10	10	-							
116	123	7	7	-	285	289	4	4	-							
123	133	10	10	-	289	295.5	6.5	6	0.5							
133	143	10	10	-	295.5	306	10.5	10.5	-							
143	153.5	10.5	10.5	-	306	311	5	5	-							
153.5	163.5	10	10	-	311	314	3	3	-							

Core Size	
Hole No.	Page
P-81-3	5

# Diamond Drill Geological Log



Objective: Sample Dolostone For Chemical Analysis      Sampled:

Logged By: PK      Date: March, 1981      Composites:

Block:      Sect.:      Place: Pond 1 Mineral Claim      App. Bear: AZ 270°      App. Dip: -47.5°      Length: 96.60 m

From      To      Discard:      Reason:

In the following log dolostone is used as the name for a rock composed principally of the mineral dolomite. The use of "dolomite" is restricted to crystalline dolomite.

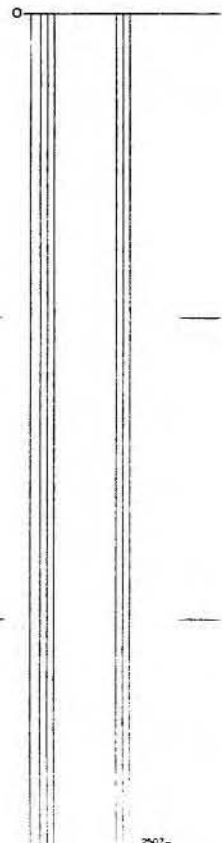
0      15.85      Overburden and casing; no core

15.85      96.60      Dolostone

15.85m-41.15m Laminated dolostone. Variably coloured, light to medium gray, finely laminated with zones of more massive fine crystalline dolostone. Laminations are 0.2 mm to 1 or 2 cm wide, generally distinct with fairly sharp boundaries, typically wavy or crenulated and many are discontinuous. Locally short intervals of 15 or 30 cm of core are more massive in character - varying from very faintly laminated (as though pre-existing lams have been masked by some homogenization process) to faintly mottled. At 21.6 m a 10 cm interval is strongly mottled. Minor dark blue-black chert is recognizable in the upper part of the hole. At 22.25 m a 6 cm length of core is predominantly chert, laminated to massive in character with irregular contacts with adjacent dolostone. Elsewhere chert occurs as fairly discrete bodies varying from angular shaped bodies to rounded and elongate shapes, usually parallel to the bedding. An est. 2% or less chert occurs from 15.85m to 22.50m. Minor white dolomite, about 1 or 2%, occurs scattered through the interval as irregular masses, elongate lens-shaped bodies parallel to bedding and as thin veinlets. "Bedding" varies from 75° to 85° to core axis.

Core Size  
BQ  
Note No. P-81-4      Page 1

40 Scale  
Color Plot & Dips      Ore Classes & Aver.





# Diamond Drill Geological Log

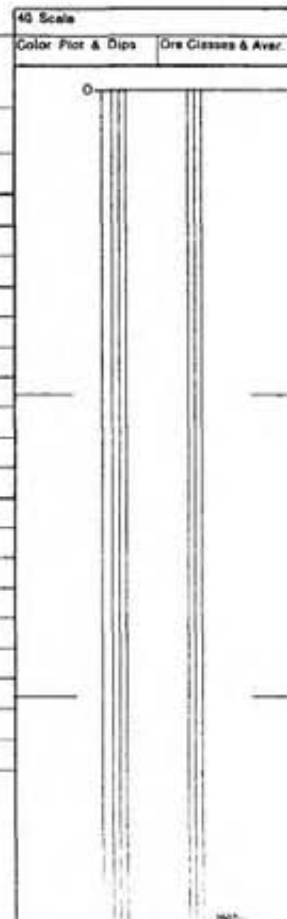


Objective: Sample Dolostone For Chemical Analysis      Sampled:

Logged By: PK      Date: March, 1981      Composites:

Block:      Sect:      Place: Pond 1 Mineral Claim      App. Bear: A2 270°      App. Dip: -47.5°      Length: 96.60 m

From	To	Discard:	Reason:
	41.15-44.60m	Massive to very faintly banded medium blue-gray fine crystalline dolostone.	
		43.75m to 44.45m has a clastic appearance with "grains" of light, medium and darker blue-gray dolomite with some dark blue-gray interstitial chert. The texture may be of clastic origin but may be metamorphic. Broken core from 41.15 to 42.75m with minor fault breccia at 42.75m	
	44.60m-57.30m	Faintly banded to laminated medium blue-gray fine crystalline dolostone. Banding is generally defined by subtle colour variations, although some bands are fairly distinct. Lams are as narrow as 0.2 mm and bands are as wide as 6 cm. Minor brecciation occurs over 20 cm near 48.15 m. Veins of white dolomite have filled the fracture spaces and healed the zone of brecciation. Narrow veinlets of white dolomite occur through most of the interval; near 49.0 m one 20 cm long vein is 1.5 cm wide. A few stypolitic contacts are present.	
	57.30-78.90m	Irregularly banded blue-gray fine crystalline dolostone.	
		Bands are commonly 5mm to 1.5 cm wide, locally laminations of a few mm or <math>\leq 1\text{ mm}</math> are present and some bands are 2-3 cm wide. Typically band boundaries are quite distinct but are very irregular with wavy, contorted boundaries common. Numerous narrower bands are lensy or discontinuous. Minor white dolomite, est. 2%, occurs as irregular rounded to elongate masses and as very thin veinlets. Minor brecciation, always well recrystallized, is present locally. Banding is typically at about 80° to core axis.	
	78.90-82.90m	Massive to brecciated (healed) to faintly banded light to medium gray fine crystalline dolostone. A healed breccia texture predominates from 78.90 m to 80.50 m. Light gray dolostone	



Core Size: BQ  
 Hole No.: P-81-4      Page: 2

# Diamond Drill Geological Log



Objective: Sample Dolostone For Chemical Analysis

Sampled:

Logged By: PK

Date: March, 1981

Composites:

Block:	Sect.:	Place:	App. Bear:	App. Dip.:	Length:
		Pond 1 Mineral Claim	AZ 270 <sup>0</sup>	-47.5 <sup>0</sup>	96.60 m

From	To	Discard:	Reason:
------	----	----------	---------

78.90-92.90m Cont'd with a clastic texture occurs below 80.50 m.

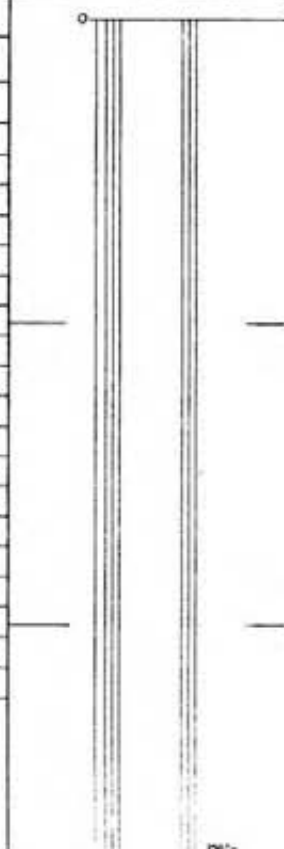
82.90-83.65m Massive to faintly laminated gray crystalline dolostone.

83.65-96.60m Faintly to moderately banded medium blue-gray crystalline dolostone. Bands vary from being quite irregular with relatively sharp boundaries to being more regular but with diffuse or gradational boundaries. Band thicknesses are typically .5 to 2.0 cm. Styolitic contacts are quite common. Hematite occurs on surfaces of styolitic contacts and on a few fracture surfaces. 1-2% white dolomite occurs as irregular patches and narrow veinlets. Minor calcite is associated with dolomite in a few places. Bands are commonly at 75<sup>0</sup> - 85<sup>0</sup> to core axis.

96.60m End of Hole

*Nancy Watson*

40 Scale  
Color Plot & Dips  
Ore Classes & Avar.



Core Size

BQ

Note No.

P-81-4

Page

3

# Diamond Drill Geological Log

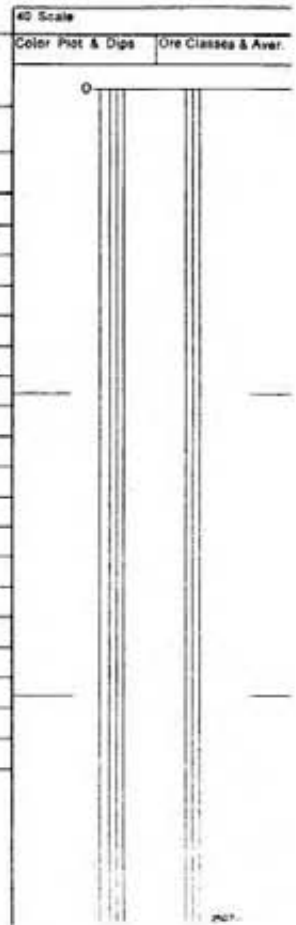


Objective: Sample Dolostone For Chemical Analysis  
 Logged By: PK Date: March, 1981  
 Block: Sect: Place: Pond 1 Mineral Claim App. Bear: AZ 270<sup>O</sup> App. Dip: -47.5<sup>O</sup> Length: 96.60 m  
 Composites: Reason:

From		To		Discard		Core Recovery in Feet			
				Length	Recoveries	Lost			
0	52	Overburden & casing; no core			From	To	Length	Recoveries	Lost
52	56	4	4	-	236	246	10	10	-
56	66	10	10	-	246	256	10	10	-
66	76	10	10	-	256	266	10	10	-
76	86	10	10	-	266	276	10	7	3 tube no locked near
86	96	10	10	-	276	286	10	9.5	0.5 272'
96	99	3	3	-	286	294	8	8	-
99	106	7	7	-	294	297	3	2.5	0.5
106	116	10	10	-	297	307	10	10	-
116	126	10	10	-	307	317	10	10	-
126	135	9	9	-					
135	140	5	3	2					
140	145	5	5	-					
145	156	11	10.5	0.5					
156	166	10	10	-					
166	176	10	10	-					
176	186	10	10	-					
186	196	10	10	-					
196	206	10	10	-					
206	216	10	10	-					
216	226	10	10	-					
226	236	10	10	-					

Core Size  
 BQ  
 Note No.  
 P-81-4

Page  
 4



# Diamond Drill Geological Log



Objective: Sample Dolostone For Chemical Analysis      Sampled:

Logged By: PK      Date: March, 1981      Composites:

Block:      Sect:      Place: Pond 1 Mineral Claim      App. Bear: AZ 270°      App. Dip: -47.5°      Length: 120.70 m

From To Discard: Reason:

In the following log dolostone is used as the name for a rock composed principally of the mineral dolomite. The use of dolomite is restricted to crystalline dolomite.

0 10.20 Casing; no core.

10.20 120.70 Dolostone

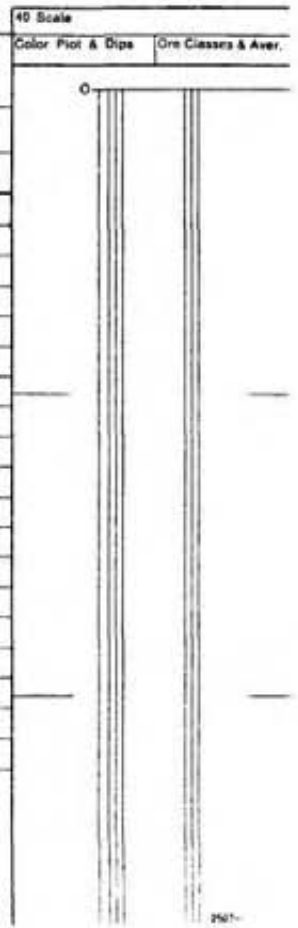
10.20-32.60m Faintly banded medium blue-gray coloured, fine crystalline dolostone with zones of mottled, cemented brecciated dolostone. Mottled and brecciated zones comprise about 20-25% of the interval. Fair bands are irregular in shape, boundaries are commonly contorted or crenulated, moderately sharp to gradational. Bands average 0.5-1.5 cm in width. Many of the smaller bands are discontinuous. White dolomite occurs as narrow veinlets, fracture fillings and as thin wispy, wavy lens-shaped masses commonly parallel to banding but also at random angles to bedding. White dolomite is more abundant in the mottled, brecciated zones, forming an est. 5-7% of the rock locally. Stylolitic contacts are common. Banding is typically at 75° - 80° to c.a.

32.60-49.85m Well laminated light gray to medium blue-gray fine crystalline dolostone.

32.60-36.60m Light-medium blue-gray with distinct fine laminations

36.60-46.35m Light gray dolostone with broader less distinct  
lams which are commonly discontinuous. Locally  
lams are broken up, possibly by some secondary  
recrystallization process to give an almost

Cone Size  
BQ  
Hole No. P-81-5  
Page 1



# Diamond Drill Geological Log



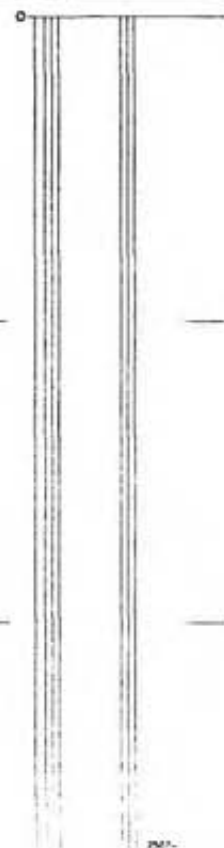
Objective: Sample Dolostone For Chemical Analysis		Sampled:		40 Scale	
Logged By: PK		Date: March, 1981		Color Plot & Dip	
Block:		Composites:		Ore Classes & Aver.	
Sect.:		Place: Pond 1 Mineral Claim		App. Dip: -47.5°	
App. Bear: AZ 270°		Length: 120.70m			
From	To	Discard:	Reason:		
	32.60-49.85m	36.60-46.35 Cont'd	clastic texture.		
		46.35-49.85m	Medium blue-gray coloured with distinct fine laminations. Lams are locally strongly contorted and in places are completely broken up. Laminations throughout the interval have slightly irregular (mildly contorted) boundaries. Many narrower lams are discontinuous. Lams range in thickness from about 0.2 mm to 2 cm with 1-4 cm being most common. Typically the lams occur at 75° to 85° to core axis.		
	49.85-54.25m		Mottled to massive, and very faintly banded blue-gray fine crystalline dolostone. Mottling is caused by an irregular lace-like network of fine veinlets and lensey concentrations of white dolomite. Minor hematite staining is evident on fracture surfaces and along stylolitic contacts.		
	54.25-70.70m		Faintly banded medium blue-gray coloured fine crystalline dolostone. Slight variations in colour define bands which typically have rather gradational contacts. Bands are characteristically irregular with wavy or contorted contacts and numerous of the narrower bands are discontinuous. Bands vary in width from 1mm (actually laminations) to 5 or 6 cm with 1-2 cm widths most common. Very minor white dolomite is present, est. 1/2-1%, occurring as small irregular blebs seemingly randomly distributed through the core. Stylolitic contacts are fairly common.		
	70.70-74.35m		Irregularly "banded" blue-gray fine crystalline dolostone. Bands are notably more distinct than in previous interval although numerous faint bands are present as well. Boundaries	Core Size	80
				Hole No.	P-81-5
				Page	2



# Diamond Drill Geological Log



Objective: Sample Dolostone For Chemical Analysis		Sampled:		40 Scale	
Logged By: PK		Date: March, 1981		Color Plot & Dips	
Block:		Sect.:		Core Classes & Aver.	
Place: Pond 1 Mineral Claim		App. Bear: AZ 270°		App. Dip: -47.5°	
Length: 120.70 m		Composites:			
From	To	Discard:	Reason:		
	96.60-120.70m		blue-gray. Laminated zones are generally similar to overlying interval; they grade into faintly laminated and massive - looking zones. Chert occurs at 104.85 m; 2 cm ; 2 cm wide band, dark blue-gray colour, band is parallel to bedding but does not continue across the width of the core. Laminations are typically at 75°-80° to core axis.		
	120.70m		End of Hole		
<i>Nancy Watson</i>					
				Core Size	
				BQ	
				Hole No.	Page
				P-81-5	4



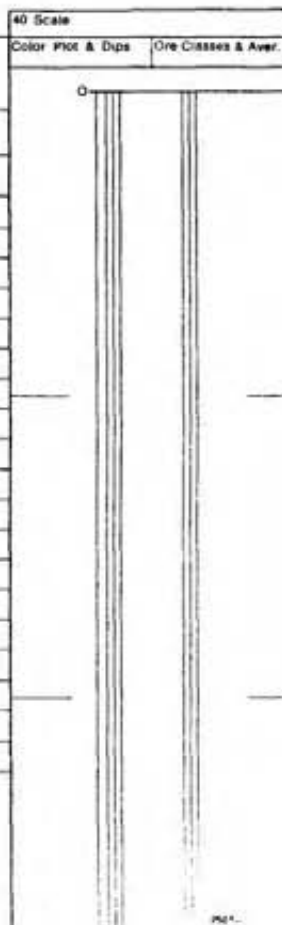




# Diamond Drill Geological Log



Objective: SAMPLE DOLOSTONE FOR CHEMICAL ANALYSIS		Sampled:		40 Scale	
Logged By: PK		Date: March, 1981		Color Plot & Dips	
Block:		Sect.:		Ore Classes & Aver.	
Place: POND 3 MINERAL CLAIM		App. Bear: Az 270°		App. Dip: -41°	
From:		Reason:		Length: 98.60 m	
To:		Discard:			
<p>In the following log dolostone is used as the name for a rock composed principally of the mineral dolomite. The use of dolomite is restricted to crystalline dolomite.</p>					
0	1.5 m	Casing; no core			
1.5 m	98.6m	Brecciated, hematitic dolostone.			
		1.5 m - 3.65 m HQ core (to set casing to 3.65 m)			
		3.65 m - 98.60 m BQ core			
<p>The entire hole is in brecciated dolostone. Color is light to medium gray, locally slightly bluish. Much of the core is colored pinkish to dull reddish brown from iron oxide staining. Hematitic staining is variable in its intensity; commonly the finer matrix of the breccia locally is most intensely hematized but elsewhere certain fragments of the brecciated dolostone are most intensely hematized.</p> <p>Character of the breccia varies from a fairly intensely fractured rock where adjacent fragments have moved little relative to each other, to a heterogeneous mixture of varied sizes, shapes and colors of dolostone mixed together. For the most part fragments are angular and the rock is well cemented although fractures and voids are evident by the typically broken core. Much of the most intensely brecciated, more hematitic dolostone has been cemented in part by calcite. Dolostone throughout is fine grained, crystalline.</p>					
Below 75.60 m, to 98.60 m core is very broken, in places rubble and recovery is generally poor. Small cavities were encountered with complete loss of water pressure (Little or no water return was experienced for the				Core Size	HQ & BQ
				Note No.	Page
				P-81-6	1





# Diamond Drill Geological Log



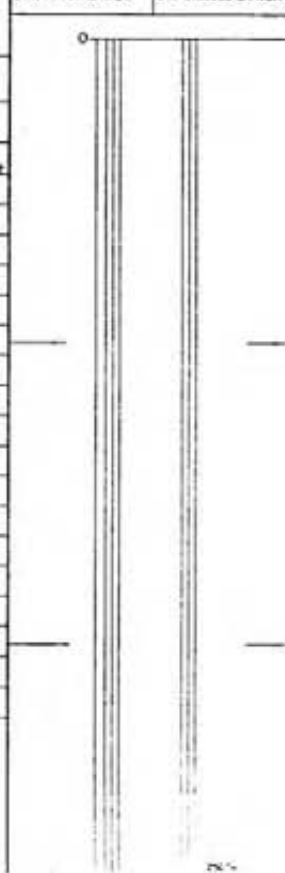
Objective: \_\_\_\_\_ Sampled: \_\_\_\_\_

Logged By: \_\_\_\_\_ Date: \_\_\_\_\_ Composites: \_\_\_\_\_

Block: \_\_\_\_\_ Sect: \_\_\_\_\_ Place: \_\_\_\_\_ App. Bear: \_\_\_\_\_ App. Dip: \_\_\_\_\_ Length: \_\_\_\_\_

From	To	Discard:	Reason:	From	To	Length	Recovered	Short	From	To	Length	Recovered	Short
CORE RECOVERY IN FEET													
0	5	Casing	No Recovery	142	152	10	10	-	296	298	2	1.5	0.5
5	12	7	5 2 (HQ)	152	162	10	10	-	298	302	4	2	2
12	14	2	1 1	162	172	10	10	-	302	304	2	1	1
14	17	3	2 1	172	182	10	9.5	0.5	304	306	2	1	1
17	21	4	4 -	182	192	10	10	-	306	310	4	3	1
21	26	5	3.5 1.5	192	202	10	10	-	310	312	2	1.5	0.5
26	31	5	4 1	202	212	10	10	-	312	315.5	3.5	3	0.5
31	36	5	2.5 1.5	212	216	4	3.5	0.5	315.5	318.5	3	2	1
36	42	6	6 -	216	226	10	10	-	318.5	320	1.5	1.5	-
42	47	5	2 3	226	236	10	10	-	320	323.5	3.5	3.5	-
47	51	4	1 3	236	246	10	10	-					
51	56	5	4.5 0.5	246	250	4	4	-					
56	66	10	10 -	250	255	5	4	1					
66	76	10	10 -	255	261	6	5	1					
76	86	10	10 -	261	265	4	2	2					
86	96	10	10 -	265	269	4	2.5	1.5					
96	105	9	9 -	269	272	3	2	1					
105	108	3	3 -	272	277	5	1.5	3.5					
108	116	8	8 -	277	285	8	1	7					
116	126	10	10 -	285	286	1	1	-					
126	133	7	7 -	286	292	6	2.5	3.5					
133	138	5	5 -	292	296	4	0.5	3.5					
138	142	4	4 -										

40 Scale  
Color Plot & Dips  
One Classes & Aver.



Core Size

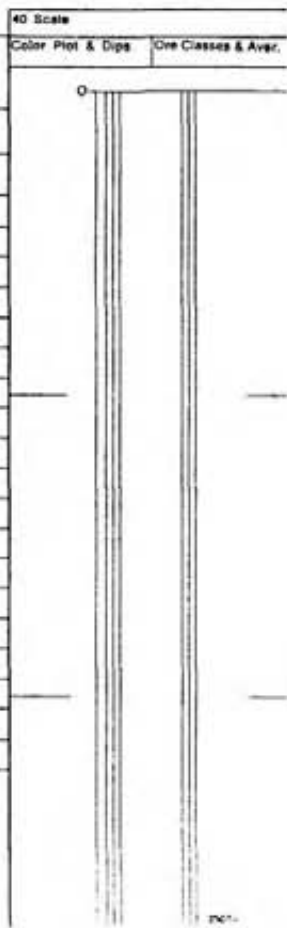
Note No. P-11-6

Page 3

# Diamond Drill Geological Log



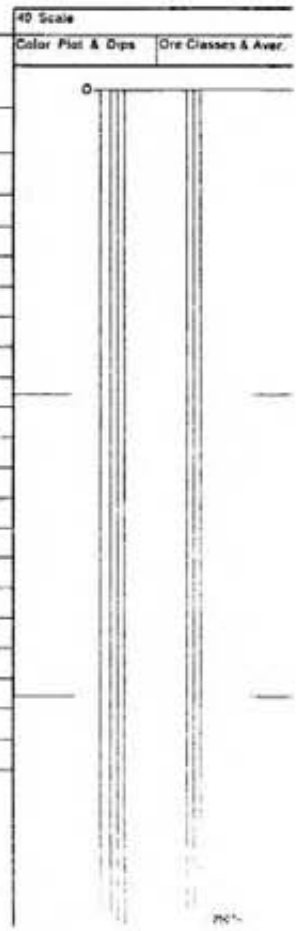
Objective: SAMPLE DOLOSTONE FOR CHEMICAL ANALYSIS		Sampled:		40 Scale		
Logged By: PK		Date: March, 1981		Color Plot & Dip		
Block:		Composites:		One Classes & Aver.		
From	To	Discard:	Reason:	App. Bear:	App. Dip.:	Length:
			POND 3 MINERAL CLAIM	AZ 270°	- 42°	41.45 m
<p>In the following log dolostone is used as the name for a rock composed principally of the mineral dolomite. The use of dolomite is restricted to crystalline dolomite.</p>						
0	1.5 m	Casing; no core				
1.5 m		Dolostone				
	1.5 m - 3.65 m	Cored HQ to set casing to 3.65 m.				
	3.65 m - 41.45 m	Cored BQ				
	1.5 m - 16.75 m	<p>Massive to locally brecciated light gray to medium blue-gray fine crystalline dolostone. "Massive" dolostone has a faint banded character at 80°-90° to core axis. 7.75 m - 13.10 m core badly broken; larger fragments are a dolostone breccia, with angular fragments of variable size as small as few mm. Breccia is cemented by white dolomite and calcite (calcite varies in its abundance) and is typically stained a pink color by Fe oxidation. Core is also broken, but not obviously brecciated, from 6.40 m to 7.75 m, and from 14.30 m to 16.75 m.</p>				
	16.75 m - 41.45 m	<p>Variably laminated to banded, locally more massive fine, crystalline dolostone. Color varies from light gray to medium blue-gray. Laminations/bands vary in thickness from less than .3 cm to 1 or 2 cm. Typically they are wavy and discontinuous occurring at 80° to core axis.</p>				
				Core Size	HQ & BQ	
				Hole No.	Page	
				P-81-7	1	



# Diamond Drill Geological Log



Objective:		Sampled:	
Logged By:		Date:	
Block:		Composites:	
Sect.:	Place:	App. Bear:	App. Dip:
Length:			
From:	To:	Discard:	Reason:
		16.75 m - 41.45 m	Cont'd: Minor re-cemented brecciation is present near 25.80 m, over 40 cm of core. Matrix is gray dolomite, lightly stained by hematite.
		41.45 m	END OF HOLE.
<i>Nancy Watson</i>			
Core Size		Hole No.	
		Page	
		2	



# Diamond Drill Geological Log



Objective:						Sampled:						40 Scale			
Logged By:						Date:						Color Plot & Dips			
Block:						Composites:						Ore Classes & Aver.			
Sect.:			Place:			App. Bear:			App. Dip:			Length:			
From		To		Discard:		Reason:									
Core Recovery in Feet															
		Length	Recovered	Lost	From	To	Length	Recovered	Lost	From	To	Length	Recovered	Lost	
0	12	Casing & HQ core													
12	16	4	4	-	77	79	2	1.5	0.5	129	133	4	0.5	3.5	
16	22	6	5.5	0.5	79	81	2	2	-	133	136	3	1	2	
22	26	4	3	1	81	86	5	5	-						
26	30	4	2.5	1.5	86	88.5	2.5	2.5	-						
30	33	3	2.5	0.5	88.5	91	2.5	2.5	-						
33	36	3	1.5	1.5	91	92	1	1	-						
36	38	2	1	1	92	95	3	2.5	0.5						
38	41	3	1.5	1.5	95	96	1	1	-						
41	45.5	4.5	4.5	-	96	98	2	2	-						
45.5	48	2.5	2.5	-	98	99	1	1	-						
48	51	3	2	1	99	103	4	4	-						
51	53	2	1	1	103	105	2	1	1						
53	54.5	1.5	1	0.5	105	106	1	1	-						
54.5	58	3.5	2.5	1	106	108	2	1.5	0.5						
58	61	3	3	-	108	109	1	0.5	0.5						
61	63	2	1	1	109	111	2	2	-						
63	64.5	1.5	1.5	-	111	115	4	3	1						
64.5	67.5	3	3	-	115	117	2	0.5	1.5						
67.5	71	3.5	3	0.5	117	120	3	2	1						
71	73	2	2	-	120	122	2	2	-						
73	75	2	2	-	122	129	7	4	3						
75	77	2	2	-											

Core Size	
Core No.	Page
P-8-7	3



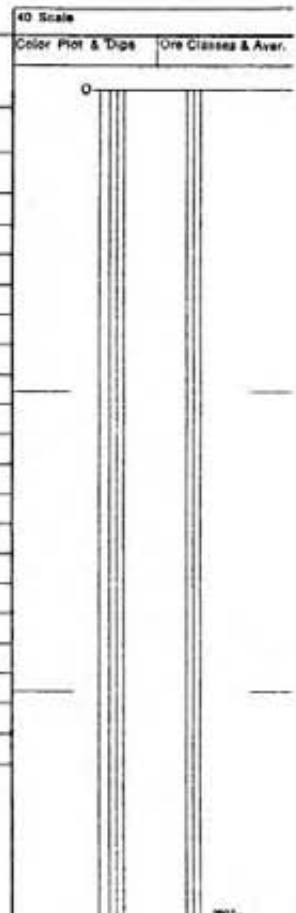




# Diamond Drill Geological Log



Objective:		Sampled:		40 Scale	
Logged By:		Date:		Color Plot & Dips	
Block:		Composites:		One Classes & Avar.	
Sect.:		App. Bear:		App. Dip.:	
Piece:		Length:			
From	To	Discard:	Reason:		
34.44	36.54	(Cont'd.)			
		medium crystalline. Styolitic contacts parallel to bedding are common in the first half of this interval. Trace limonite occurs on most fracture surfaces along with some pink coarse crystalline calcite.			
36.54	38.45	Dolostone; medium to dark gray, massive with a few dark gray laminations, medium to coarsely crystalline. Trace limonite staining is present on some fracture surfaces and pink coarsely crystalline calcite encrusts most of the many vugs in this interval. Styolitic contacts parallel to the laminations are common. The core is fairly broken up with some solid pieces of core 5 cm long.			
38.45	41.30	Dolostone; medium to dark gray, massive, fine to medium crystalline. Dark gray wavy, irregular laminations, 1-3 mm wide are visible as well as white dolomite in the last half of the interval which occurs as irregular lace-like intergrowths and irregular narrow veinlets. Styolitic contacts parallel to the laminations are common with heavy hematite staining on many. Trace limonite staining occurs on most but not all fracture surfaces. The core is broken but mostly into solid pieces of core 5-15 cm long.			
41.30	45.72	Dolostone; alternating light and medium gray, well-laminated with good bedding at 80° to c.a. Laminations are wavy and irregular, fine to medium crystalline. Styolitic contacts parallel to bedding are common and trace limonite staining occurs on most but not all fractures. Heavy calcite deposits occur on a few fracture surfaces. The core is broken subparallel to bedding into solid pieces of core 5-15 cm long.			
45.72	48.00	Dolostone; color varies from light to medium gray; different colored lenses are discontinuous, mildly contorted, rounded to irregular, giving an over-all mottled appearance. This appears as a massive, very fine to fine crystalline unit.			



Core Size

NQ

Core No. P-81-8

Page 3

# Diamond Drill Geological Log



Objective:		Sampled:		10 Scale	
Logged By:		Date:		Color Plot & Dips	
Block:		Sect.:		Ore Classes & Aver.	
Piece:		App. Bear.:		D	
App. Dip.:		Length:			
From	To	Discard:	Reason:		
45.72	48.00	(Cont'd.)			
This interval contains several stylonitic contacts at 80° to c.a. and trace limonite staining on most fracture surfaces. There are two short intensely fractured zones in this interval but most of the solid pieces of core average 20 cm long with one piece 50 cm long.					
48.00	52.25	Dolostone, medium to dark gray, massive, with only a few dark gray laminations 3 mm wide, fine to medium crystalline. Less than 5% white dolomite occur over the interval. Stylonitic contacts are common at 80° to c.a. and trace limonite and calcite occurs on some fracture surfaces. This section is less broken than previous intervals with solid pieces 5-20 cm long. The one exception is a broken zone 49.50 m - 50.14 m, consisting of larger rock fragments coated with a light brown mud mixed with very small rock fragments. Near 52.10 m is a light brown mud seam 1 cm thick and 35 cm long along a fracture parallel to the c.a.			
52.25	55.10	Dolostone; varies from medium to dark gray due to alternating wavy, irregular and sometimes discontinuous laminations up to 3mm wide. Some laminations appear as a series of subrounded lenses elongate parallel to bedding. It is fine to medium crystalline with a few vugs filled with calcite and trace limonite on fracture surface. Stylonitic contacts are common.			
55.10	61.55	Dolostone; medium to dark gray, very fine to fine crystalline, massive with faint dark laminations. This interval is very vuggy, more so than any other interval. Pink coarse crystalline calcite occurs in most of the vugs and on many fracture surfaces. Trace limonite staining also is found on some fractures. Stylonitic contacts at 80° to c.a. are common. The core is broken into solid pieces of core 5-20 cm long except for the last 2m which is highly fractured. Less than 5% white dolomite exists over this interval.			
				Core Size	NW
				Hole No.	P-81-8
				Page	4

2901

# Diamond Drill Geological Log



Objective: \_\_\_\_\_ Sampled: \_\_\_\_\_

Logged By: \_\_\_\_\_ Date: \_\_\_\_\_ Composites: \_\_\_\_\_

Block: \_\_\_\_\_ Sect.: \_\_\_\_\_ Place: \_\_\_\_\_ App. Bear: \_\_\_\_\_ App. Dip: \_\_\_\_\_ Length: \_\_\_\_\_

From To Discard: Reason:

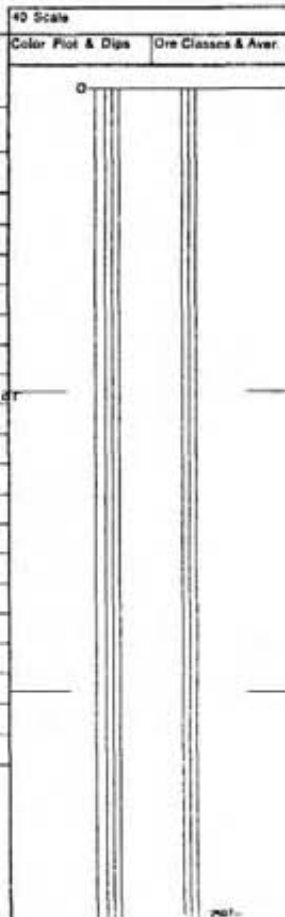
61.55 70.50 Dolostone; varies from medium to dark gray, medium to coarsely crystalline, mostly massive with a few different beds visible. There are occasional short sections with wavy, irregular laminations less than 2mm wide. The rock is similar to the previous interval except without the vugs and abundant calcite. About 50% of this interval consists of highly fractured rock.

70.50 74.08 Dolostone; varies from medium to dark gray, fine to medium crystalline, massive with some vague laminations. There are also some light gray irregular shaped lenses elongated parallel to bedding. White dolomite occurs as an irregular and lace-like intergrowth. Trace to moderate limonite staining occurs on some fractures and heavy hematite staining occurs on several of the many stylitic contacts in this interval. Most of the interval is broken subparallel to bedding at 80° to c.a. into solid pieces of 5-10 cm long with two pieces 30 cm long.

74.08 77.85 Dolostone; varies from light gray to dark gray, very fine to fine crystalline, well-laminated for most of the interval. The laminations vary from 1-5 mm and are wavy, mildly contorted and sometimes discontinuous. Trace limonite staining occurs on fracture surfaces parallel to c.a. and heavy hematite staining with minor calcite occurs on most stylitic contacts (parallel to bedding) which are common. White dolomite, occurring as an irregular intergrowth, makes up about 40% of the rock in the last meter of this interval.

77.85 82.95 Dolostone; medium to dark gray, very fine to fine crystalline, massive with some vague laminations. Trace to moderate limonite staining on fractures parallel to c.a. Minor hematite staining on several stylitic contacts. A few calcite encrusted vugs and less than 5% white dolomite occur over this interval. Most of the core is broken into pieces 10-30 cm long.

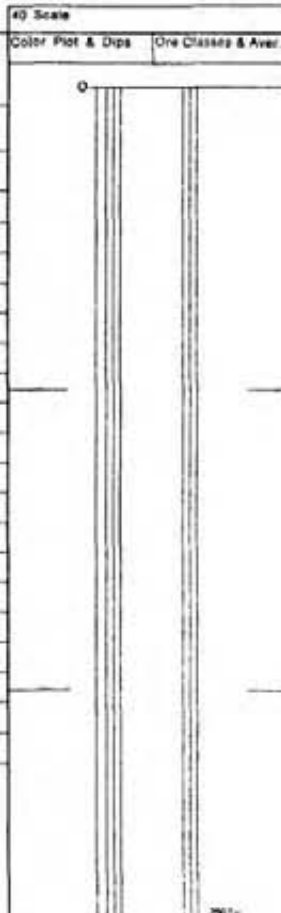
Core Size  
NQ  
Hole No. P-81-B Page 5



# Diamond Drill Geological Log



Objective:		Sampled:		40 Scale	
Logged By:		Date:		Color Plot & Dips	
Block:		Composites:		One Classes & Aver.	
Sect.:		Place:		App. Bear:	
App. Dip:		Length:			
From	To	Discard:	Reason:		
82.95	85.75		Dolostone; medium to dark gray, very fine to fine crystalline, massive with some vague laminations. Trace hematite occurs on a few stylitic contacts.		
82.95	85.75		The first 75 cm of this interval is fractured with heavy limonite staining on fracture surfaces and is vuggy. Several calcite-filled vugs elongate to bedding occur over the rest of the interval. The last meter has about 40% white dolomite as a lace-like intergrowth.		
85.75	90.80		Dolostone; medium to dark gray, very fine to fine crystalline, massive with some laminations. White dolomite makes up 5-10% of the core. A piece of core 5 cm long near 89.20 m is brecciated with dark gray angular dolomite with 20% light gray dolomite matrix. The breccia cut the core at 80° to c.a.		
90.80	95.48		Dolostone; varies from light to medium gray, very fine to fine crystalline, alternating massive and well-laminated sections. Laminations are fairly regular and continuous. Iron oxides are minor with some limonite on fractures and trace hematite on several stylitic contacts. Minor amounts of calcite coat a few fractures. Less than 5% white dolomite occurs over this interval.		
95.48	105.50		Dolostone; light to medium gray with alternating sections of massive medium crystalline dolomite and very fine to fine crystalline-bedded dolomite. These beds range from 1-4 cm, are irregular and some contain good laminations. Trace limonite combined with hematite occurs on many fractures with minor calcite. This interval contains a few calcite encrusted vugs and about 5% white dolomite. The core is broken mainly parallel to bedding into solid pieces 5-35 cm long.		
				Core Size NQ	
				Hole No. P-81-8	
				Page 6	



# Diamond Drill Geological Log



Objective: \_\_\_\_\_ Sampled: \_\_\_\_\_

Logged By: \_\_\_\_\_ Date: \_\_\_\_\_ Composites: \_\_\_\_\_

Block: \_\_\_\_\_ Sect: \_\_\_\_\_ Place: \_\_\_\_\_ App. Bear: \_\_\_\_\_ App. Dip: \_\_\_\_\_ Length: \_\_\_\_\_

From To Discard Reason

105.50 109.60 Dolostone; medium to dark gray, fine to medium crystalline, massive, with a few dark laminations up to 2 mm wide. Trace amounts of limonite staining occurs on some fracture surfaces. Styolitic contacts aren't nearly as numerous in previous intervals. White dolomite content is less than 5%. This interval is more broken up than the previous interval with several highly fractured zones alternating with solid pieces of core 5-10 cm long.

109.60 119.70 Dolostone; medium to dark gray, very fine to fine crystalline, massive. Some sections have irregular, subrounded, discontinuous lenses elongate parallel to bedding. Trace limonite with some calcite on many fracture surfaces. Many of the styolitic contacts have minor hematite staining. An occasional vug is present encrusted with calcite. White dolomite makes up about 20% of the rock over most of the interval occurring as separate irregular and discontinuous veinlets. There are a couple of highly fractured zones but pieces of core 30 cm long are common.

119.70 123.30 Dolostone; medium gray, very fine to fine crystalline, massive. Styolitic contacts are common with trace limonite staining and some calcite present. White dolomite occurs in less than 5% of the rock. From 122.20 to 122.60 m is an interval which is highly fractured. The fragments contain numerous vugs and one vuggy piece of core has some hairline fractures. The core lengths are comparable with the previous interval except the last 1.5 m which is fractured.

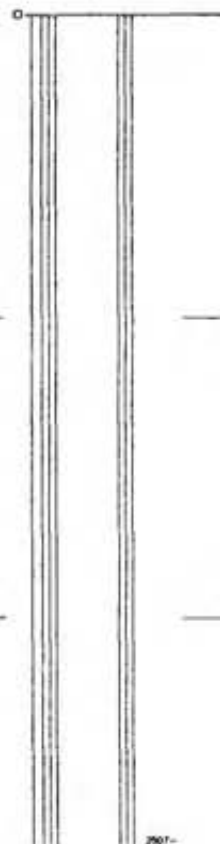
123.30 125.91 Dolostone; medium to dark gray, fine to medium crystalline, massive. Some irregular, discontinuous laminations are present. Three different sections 30 cm long contain vugs and about 20% white dolomite. Trace limonite and some calcite occurs on fractures and many of the styolitic contacts. Most of the core in this interval is 10-25 cm long and broken at 80° to c.a. This is the most common fracture attitude in the hole.

The core is generally competent, even the individual fragments in the fractured sections.

End.

*Nancy Watson*

40 Scale  
Color Plot & Dips Ore Classes & Avar.



Core Size

NQ

Hole No.

P-81-8

Page

7

200-

55

# Diamond Drill Geological Log



Objective: \_\_\_\_\_ Sampled: \_\_\_\_\_

Logged By: N.R. Watson Date: October 1981 Composites: \_\_\_\_\_

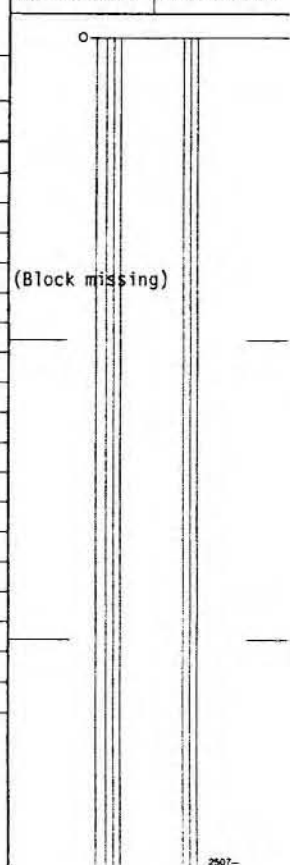
Block: \_\_\_\_\_ Sect.: \_\_\_\_\_ Place: \_\_\_\_\_ App. Bear: \_\_\_\_\_ App. Dip.: \_\_\_\_\_ Length: \_\_\_\_\_

From To Discard: \_\_\_\_\_ Reason: \_\_\_\_\_

Core Recovery: Shown in Feet.

From	To	Length	Recovered	Short	From	To	Length	Recovered	Short	From	To	Length	Recovered	Short
34	44	10	10	-	177	187	10	10	-	326	336	10	10	-
44	54.5	10.5	10.5	-	187	195	8	6.5	1.5	336	354	18	18	-
54.5	63	8.5	6	2.5	195	200	5	3.5	1.5	354	364	10	10	-
63	67	4	3	1	200	200	6	6	-	364	372.5	8.5	8.5	-
67	77	10	10	-	206	213	7	5	2	372.5	383	10.5	10.5	-
77	84	7	6.5	1/2	213	216	3	1.5	1.5	383	393	10	10	-
84	87	3	2	1	216	218	2	0.5	1.5	393	403	10	10	-
87	97	10	8	2	218	219	1	1	-	403	413	10	10	-
97	103	6	6	-	219	221	2	1	1					
103	107	4	1	3	221	226	5	4	1	End				
107	113	6	5.5	1/2	226	235	9	9	-					
113	120	7	7	-	235	245	10	10	-					
120	125	5	5	-	245	255	10	10	-					
125	135	10	10	-	255	265	10	10	-					
135	145	10	10	-	265	275	10	10	-					
145	150	5	5	-	275	286	11	11	-					
150	155	5	5	-	286	296	10	10	-	Core Size				
155	165	10	10	-	296	306	10	10	-	NQ				
165	175	10	10	-	306	316	10	10	-	Hole No. P-81-8				
175	177	2	2	-	316	326	10	10	-	Page 8				

40 Scale  
Color Plot & Dips Ore Classes & Aver.



2507-

MC-3187-C

Drawn by:	
Revised by:	
Checked by:	
Traced by:	
Approved by:	

SAMPLE INTERVAL		SAMPLE NUMBER		SAMPLE TYPE	% L.O.I.	% SiO <sub>2</sub> + Insol	% Al <sub>2</sub> O <sub>3</sub>	% Fe <sub>2</sub> O <sub>3</sub> Total	% CaO	% MgO	% SO <sub>4</sub>	% Na <sub>2</sub> O	% K <sub>2</sub> O	% P	PPM Pb	PPM Zn	PPM As	% moisture	% TOTAL
FROM	TO	FIELD	LAB																
3.65m	23.65m	1933-36	R81-1587	COMPOSITE	46.43	0.71	0.28	0.14	30.40	21.97	0.018	0.016	0.041	0.007	6	12	<2	0.05	100.062
		"		REPLICATE	46.21	0.70	0.29	0.13	29.80	22.14	0.012	0.016	0.042	0.006	5	11	<2	0.04	99.906
23.65m	43.65m	1937-40	R81-1588	COMPOSITE	46.97	0.62	0.22	0.19	30.40	21.88	0.006	0.019	0.037	0.003	10	8	<2	0.05	99.840
				Duplicate	46.30	0.64	0.21	0.13	30.47	21.65	0.006	0.014	0.034	0.004	9	8	<2	0.03	99.488
43.65m	64.00m	1941-44	R81-1589	COMPOSITE	46.10	1.36	0.32	0.21	30.07	21.72	0.006	0.018	0.063	0.003	6	8	<2	0.05	99.920
				Duplicate: second separate composite made from original 5m sections Replicate: set of results obtained from the same composite															

Scale: \_\_\_\_\_

DATE: \_\_\_\_\_

BDH No: P-81-1

Plate: \_\_\_\_\_

CHEMICAL ANALYSIS  
 POND MINERAL CHANGES  
 DOLOMITE



2100010



MLC1317/C

SAMPLE INTERVAL		SAMPLE NUMBER		SAMPLE TYPE	% L.O.I	% SiO <sub>2</sub> + Insol	% Al <sub>2</sub> O <sub>3</sub>	% Fe <sub>2</sub> O <sub>3</sub> Total	% CaO	% MgO	% SO <sub>3</sub>	% Na <sub>2</sub> O	% K <sub>2</sub> O	% P	PPM Pb	PPM Zn	PPM As	% moisture	% TOTAL
FROM	TO	FIELD	LAB																
3.65m	23.65m	1945-48	RBI-1590	COMPOSITE	46.00	1.54	0.13	0.08	30.07	22.11	<0.006	0.018	0.021	0.003	8	6	<2	0.03	100.002 <sup>8</sup>
				REPLICATE	45.81	1.55	0.13	0.08	29.94	21.97	<0.006	0.023	0.022	0.002	8	5	<2	0.02	99.547 <sup>53</sup>
23.65m	43.65m	1949-50	RBI-1591	COMPOSITE	46.36	0.80	0.13	0.08	30.07	21.85	0.024	0.016	0.021	0.004	18	15	<2	0.03	99.385
		1876-77		Duplicate	46.39	0.81	0.16	0.08	30.07	21.55	0.022	0.016	0.022	0.004	20	12	<2	0.03	99.154
43.65m	63.65m	1878-81	RBI-1592	COMPOSITE	46.6	0.39	0.15	0.09	30.07	22.38	<0.006	0.014	0.022	0.001	3	3	<2	0.02	99.137 <sup>43</sup>
		1779-82	SW-153	HIDDEN COMPOSITE	46.22	0.57	0.12	0.09	30.07	21.97	0.016	0.020	0.018	0.011	<2	7	3	0.04	99.527
63.65m	83.65m	1882-85	RBI-1593	COMPOSITE	46.70	0.51	0.21	0.12	30.22	22.05	0.012	0.015	0.030	0.001	4	3	<2	0.02	99.888
				Duplicate	46.78	0.50	0.23	0.12	29.94	21.88	0.012	0.015	0.030	0.002	5	3	<2	0.03	99.539
83.65m	104.55m	1886-89	RBI-1594	COMPOSITE	46.57	0.54	0.22	0.13	30.22	21.97	<0.006	0.013	0.027	0.001	3	3	<2	0.03	99.721 <sup>7</sup>
				REPLICATE	46.51	0.54	0.18	0.14	29.90	22.48	<0.006	0.012	0.033	0.002	2	3	<2	0.03	99.827 <sup>33</sup>

Scale:

Date:

Plate:

CHEMICAL ANALYSES  
 POND MINERAL CHEMIS  
 DOLOMITE

BDH No: P-81-2







ML-1187-C

Drawn by:	
Revised by:	
Traced by:	
Revised by:	
Drawn by:	
Revised by:	
Traced by:	
Revised by:	

SAMPLE INTERVAL		SAMPLE NUMBER		SAMPLE TYPE	% L.O.I	% SiO <sub>2</sub> + Insol	% Al <sub>2</sub> O <sub>3</sub>	% Fe <sub>2</sub> O <sub>3</sub> Total	% CaO	% MgO	% SO <sub>4</sub>	% Na <sub>2</sub> O	% K <sub>2</sub> O	% P	PPM Pb	PPM Zn	PPM As	% moisture	% TOTAL
FROM	TO	FIELD	LAB																
15.85m	35.85m	1914-17	R81-1841	COMPOSITE	42.29	8.08	0.42	0.18	28.50	19.90	0.042	0.028	0.092	0.002	<2	1.0	3	0.02	99.554
				REPLICATE	42.27	8.05	0.50	0.16	28.50	19.89	0.042	0.028	0.093	0.002	<2	1.2	5	0.03	99.565
35.85m	55.85m	1918-21	R81-1842	COMPOSITE	44.47	3.53	0.23	0.12	30.10	20.89	0.024	0.028	0.050	0.002	<2	1.6	<2	0.02	99.464
55.85m	75.85m	1922-25	R81-1843	COMPOSITE	45.90	1.10	0.24	0.16	30.80	21.55	0.072	0.027	0.053	0.001	<2	1.2	4	0.04	99.943
				DUPLICATE	45.80	1.07	0.26	0.16	30.60	21.39	0.084	0.020	0.056	0.001	<2	0.9	6	0.05	99.491
75.85m	96.65m	2001-04	R81-1844	COMPOSITE	45.86	0.80	0.27	0.15	30.70	22.05	0.030	0.028	0.053	0.001	<2	0.8	5	0.03	99.972

Scale: \_\_\_\_\_

DDH No: P-81-4

Date: \_\_\_\_\_

Plate: \_\_\_\_\_

CHEMICAL ANALYSES  
 POND MINERAL CLAIMS  
 DOLOMITE



SAMPLE INTERVAL		SAMPLE NUMBER		SAMPLE TYPE	% L.O.I.	% S.O <sub>2</sub> + Insol	% Al <sub>2</sub> O <sub>3</sub>	% Fe <sub>2</sub> O <sub>3</sub> Total	% CaO	% MgO	% SO <sub>4</sub>	% Na <sub>2</sub> O	% K <sub>2</sub> O	% P	PPM Pb	PPM Zn	PPM As	% moisture	% TOTAL
FROM	TO	FIELD	LAB																
10.20m	30.20m	2005-08	R81-1845	COMPOSITE	45.93	0.58	0.17	0.12	30.90	21.75	0.030	0.024	0.045	0.001	<2	1.0	7	0.03	99.580
				Duplicate	46.16	0.59	0.21	0.11	30.80	21.72	0.024	0.023	0.040	0.001	<2	1.0	9	0.02	99.648
30.20m	50.20m	2009-12	R81-1846	COMPOSITE	45.49	1.35	0.23	0.14	30.70	21.52	0.030	0.028	0.053	0.001	<2	0.8	5	0.03	99.572
50.20m	70.20m	2013-16	R81-1847	COMPOSITE	45.84	0.89	0.19	0.14	30.60	21.88	0.030	0.021	0.051	0.001	<2	1.3	<2	0.02	99.303
				REPLICATE	46.12	0.82	0.21	0.13	30.50	21.55	0.040	0.018	0.048	0.001	<2	1.3	<2	0.03	99.467
70.20m	90.20m	2011-20	R81-1848	COMPOSITE	43.16	6.17	0.30	0.18	29.20	20.56	0.078	0.027	0.094	0.002	<2	1.0	5	0.03	99.801
		1783-86	R81-1859	HIDDEN DUPLICATE	43.50	5.95	0.43	0.17	29.10	20.60	0.102	0.020	0.087	0.002	<2	1.8	6	0.05	100.011
90.20m	110.20m	2021-24	R81-1849	COMPOSITE	42.89	6.55	0.36	0.06	29.00	20.56	0.048	0.021	0.082	0.002	<2	1.0	7	0.03	99.603
				Duplicate	43.14	6.50	0.41	0.10	28.90	20.39	0.042	0.019	0.082	0.002	<2	1.2	5	0.03	99.615
110.20m	120.73m	2025-26	R81-1850	COMPOSITE	45.29	1.56	0.20	0.13	30.40	21.72	0.030	0.021	0.050	0.001	<2	0.8	7	0.04	99.442

Drawn by: \_\_\_\_\_  
 Traced by: \_\_\_\_\_  
 Scale: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Plate: \_\_\_\_\_  
 CHEMICAL ANALYSES  
 POND MINERAL CLINICS  
 DOLOMITE  
 DDH No: P-81-5



Drawn By:	Received by:	Date:
Traced By:	Received by:	Date:
CHEMICAL ANALYSES POND MINERAL CEMENTS DOLOMITE DBH No: P-81-G		
Scale:	Date:	Plate:

SAMPLE INTERVAL		SAMPLE NUMBER		SAMPLE TYPE	% L.O.I	% SiO <sub>2</sub> + Insol	% Al <sub>2</sub> O <sub>3</sub>	% Fe <sub>2</sub> O <sub>3</sub> Total	% CaO	% MgO	% SO <sub>3</sub>	% Na <sub>2</sub> O	% K <sub>2</sub> O	% P	ppm Pb	ppm Zn	ppm As	% moisture	% TOTAL
FROM	TO	FIELD	LAB																
3.65m	23.65m	2027-30	RBI-1851	COMPOSITE	45.72	0.63	0.27	0.17	31.80	20.89	0.006	0.027	0.060	0.001	<2	6.7	5	0.03	99.604
				REPLICATE	45.95	0.62	0.25	0.16	31.60	21.06	0.010	0.021	0.055	0.002	<2	6.4	7	0.03	99.758
23.65m	43.65m	2031-34	RBI-1852	COMPOSITE	45.68	1.02	0.57	0.20	31.00	21.06	0.006	0.026	0.087	0.002	<2	20.5	8	0.05	99.701
43.65m	63.65m	2035-38	RBI-1853	COMPOSITE	45.63	1.26	1.00	0.31	31.30	20.90	0.012	0.031	0.101	0.002	<2	28.0	10	0.04	100.586
63.65m	83.65m	2039-42	RBI-1854	COMPOSITE	45.41	1.45	0.52	0.35	31.10	21.73	0.012	0.027	0.113	0.001	<2	18.6	12	0.04	99.753
				DUPLICATE	45.61	1.46	0.57	0.34	31.20	20.89	0.020	0.024	0.113	0.002	<2	19.2	9	0.03	100.299
83.65m	98.65m	2043-45	RBI-1855	COMPOSITE	45.51	1.06	0.40	0.37	30.80	21.55	0.018	0.024	0.094	0.001	<2	15.4	6	0.03	99.857
				REPLICATE	45.75	1.05	0.33	0.32	30.70	21.55	0.012	0.017	0.090	0.001	<2	15.4	9	0.02	99.839



Average Composite: 45.59 1.08 0.50 0.20 31.28 21.11 0.022 0.021 0.091 0.001 <2 15.4 9 0.02 99.839

