

Assessment Report on the

Caro 1 to 27, Caro 28 to 30, Caro 1 frc, Caro 2frc,
Caro 3 frc, Caro 5 frc, Caro 6 frc, Idaho C.G.,
Aurum 1 C.G., Tramway C.G., Sylvia frc, Cabin 1 to 14,
Cabin 20 frc, Cabin 21 frc, Gold Star 1 to 4, PCR 2,
and Home Gold 1 to 15, Mineral Claims and Crown Grants.

Situated on Ladner Creek, 19 air km.

N.E. of Hope, B.C. in the

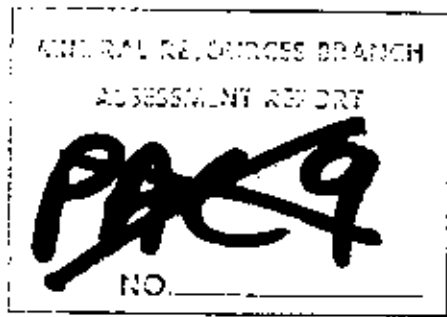
New Westminster M.D.

N.T.S. Code 92H 6W & 92H 11W

Latitude 49° 30' 30" N., Longitude 120° 17' 30" W

Owned by Carolin Mines Ltd. And Summit Mining Co. Ltd.

and operated by Carolin Mines Ltd.



Report by
David Griffith, B.A., B.Sc.
June 1978
Lear, B.C.

7608



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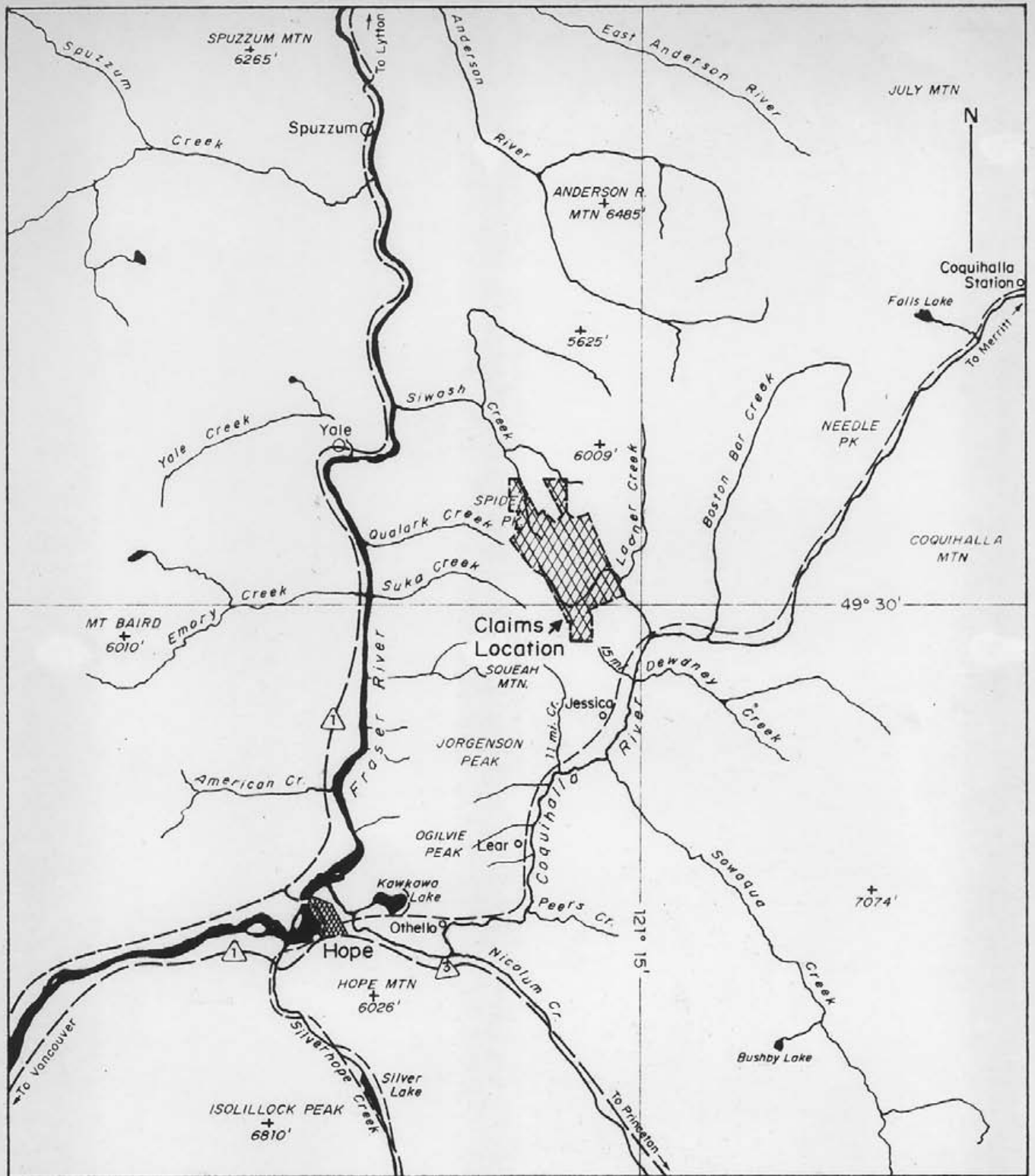
A INTRODUCTION:

A-1 GENERAL

Between May 15, 1977 and June 29, 1978 Carolin Mines Ltd. conducted an extensive underground exploration program on its Ladner Creek Project. This program included construction of a new access road, upgrading of existing access roads, preparation of a muck storage and sorting area, purchase and erection of a sampling plant, driving of a main decline and crosscut, underground diamond drilling, geological mapping and extensive sampling. This report describes the small portion of this work that is being submitted for assessment credit.

A-2 LOCATION & ACCESS

The property is situated in the northern portion of the Cascade Mountains, some 19 air km. N.E. of the town of Hope in southern British Columbia. Most of the claims lie north of the "South West Fork" and west of the "Main Fork" of Ladner Creek. Road access to the southern and middle claims sector is provided by a logging-mining road which proceeds northerly then westerly from the Coquihalla River road at a point near km. 15. The access road is easily passable by car or truck in the summer months, but is occasionally washed out in the freshet seasons. Access



LOCATION MAP

Fig. 1



Ladner Creek Project, New Westminster Mining Division, Hope B.C.

Cochrane Consultants Limited
4801 Delta Street — Delta B.C.

N.T.S. 92 H/11 B 6.

Scale 1:250,000

to the northern claims is by pack trail or helicopter and the latter is available from a base in Agissiz.

The National Topographic System Code for the claim area is 92H 11W, 92H 6W. The latitude is 49° 30' 30" N. and longitude is 121° 17' 30" W.

(see Fig. 1)

A-3 HISTORY:

The discovery of the lode-gold deposits of the Coquihalla gold belt was a by product of the late 1850 placer gold rush on the Fraser River. Detailed placer work culminated in the discovery of the Aurum Mine in 1923 on the present claim block. In addition to the Aurum, the Pipestem mine, Idaho, Tramway, Rush of the Bull, Golden Cache & Gem were discovered and are all part of the present claim block. All activity in the belt ceased prior to the Second World War.

In the late 1960's, Summit Mining Co. Ltd. began acquiring some of the old crown grants in the area and staked additional claims. In 1973 Carolin Mines Ltd. optioned Summit Mining Co. Ltd.'s mineral rights and staked additional claims. Line cutting, soil sampling, magnetometer surveying, geological mapping and diamond drilling were carried out by Carolin Mines Ltd. in 1973 and 1974. This culminated in the discovery of a sizable gold deposit known as the Idaho Zone. In 1975 the property was optioned to

Precambrian Shield Resources Ltd. and further line cutting, soil sampling, magnetometer surveying, geological mapping, diamond drilling and claim staking were completed. This culminated in the discovery of the McMaster Zone. Carolin Mines Ltd. regained control of the property in 1976, and the current program has been under way since May 1977.

All of the work in the present program has been conducted on the Idaho Zone, which from surface drilling prior to 1976 was calculated to have 4.2 million short ton grading 0.098 troy oz./ton geological reserves or 1.7 million short tons grading 0.148 troy oz./ton geological reserves (0.090 cutoff).

A-4 SUMMARY OF WORK COMPLETED

The following is a summary of work completed for which assessment credit is being applied for.

- Construction of $\frac{1}{2}$ km of 4m wide access road on Aurum 1 C.G. & Sylvia frc.
- Upgrading of about 2km of access road on Aurum 1 C.G., Sylvia frc., Caro 24 & Caro 26 claims and Tramway C.G.
- Construction of approximately 5 ha. of muck storage area on the Tramway C.G., & Sylvia frc.
- Driving 140.96m of 2.5x2.5 opening on the Idaho C.G.
- 68 AQ diamond drill holes totalling 3,204m on the Idaho C.G.

B SURFACE WORK

B-1 ROADS, MUCK STORAGE AREA.

Approximately $\frac{1}{2}$ km of 4m wide access road was constructed. Approximately 0.1 km of this had to be drilled and blasted as the rock was too tough to be broken with a cat. The remaining approximate 0.4 km was blue clay and required extensive punching and later hauling of shale and waste muck to firm up and stabilize.

Approximately 2 km of 4m wide road was rehabilitated and upgraded. 36m of 0.30m steel culvert was installed, proper ditching and drainage facilities constructed, and 3 log culverts 1.0m W. x 0.5 m D. built. Waste muck was hauled and dumped in soft spots to firm up the road.

Approximately $3\frac{1}{2}$ ha of muck storage area was built. The timber was felled, land cleared and leveled into 4 tiers. Due to the extensive blue clay underneath, a great deal of shale and waste muck had to be trucked and spread on these tiers in order to stabilize them sufficiently for tandem gravel trucks to safely and efficiently move about.

A further $1\frac{1}{2}$ ha. of logging road and logging landing were rehabilitated for use as muck storage area.

All of the above work is being applied for assessment work credit on the Aurum group, and details of equipment, personnel, materials, dates worked and

expenditures are to be found in section D-1 of this report. Plate 5 in the jacket of this report shows the location of the above described work with respect to geography and claims boundaries.

B-2 SAMPLING PLANT

The lower two tiers described in section B-1 above were partially used as a location for a 23 tonnes per hour sampling plant. A loading ramp enabling tandem gravel trucks to dump into a hopper 6 m above ground was constructed. Due to the size of the plant, and the unstable nature of the soil, heavy foundations were required to ensure stability. 67 cu. yds. of reinforced 3000 p.s.i. concrete were used in the foundation. A power house was built for a 200 kw generator.

The plant was trucked to the site and rebuilt, assembled, and erected on site. The plant consists of a 45 tonnes hopper, a 23 tonnes/hour jaw crusher, a 23 tonnes/hour rolls crusher, 2 conveyors, and an 8 m high 23 tonnes/hour sampling tower. The electrical wiring was partially completed. Catwalks and safety railings were partially installed.

All of the above work is being applied for assessment work credit on the Aurum group, and details of equipment, personnel, material, dates worked and expenditures are to be found in section D-2 of this

report. Plate 5 in the jacket of this report shows the location of the sampling plant with respect to geography and claims boundaries.

C UNDERGROUND WORK

C-1 ACCESS

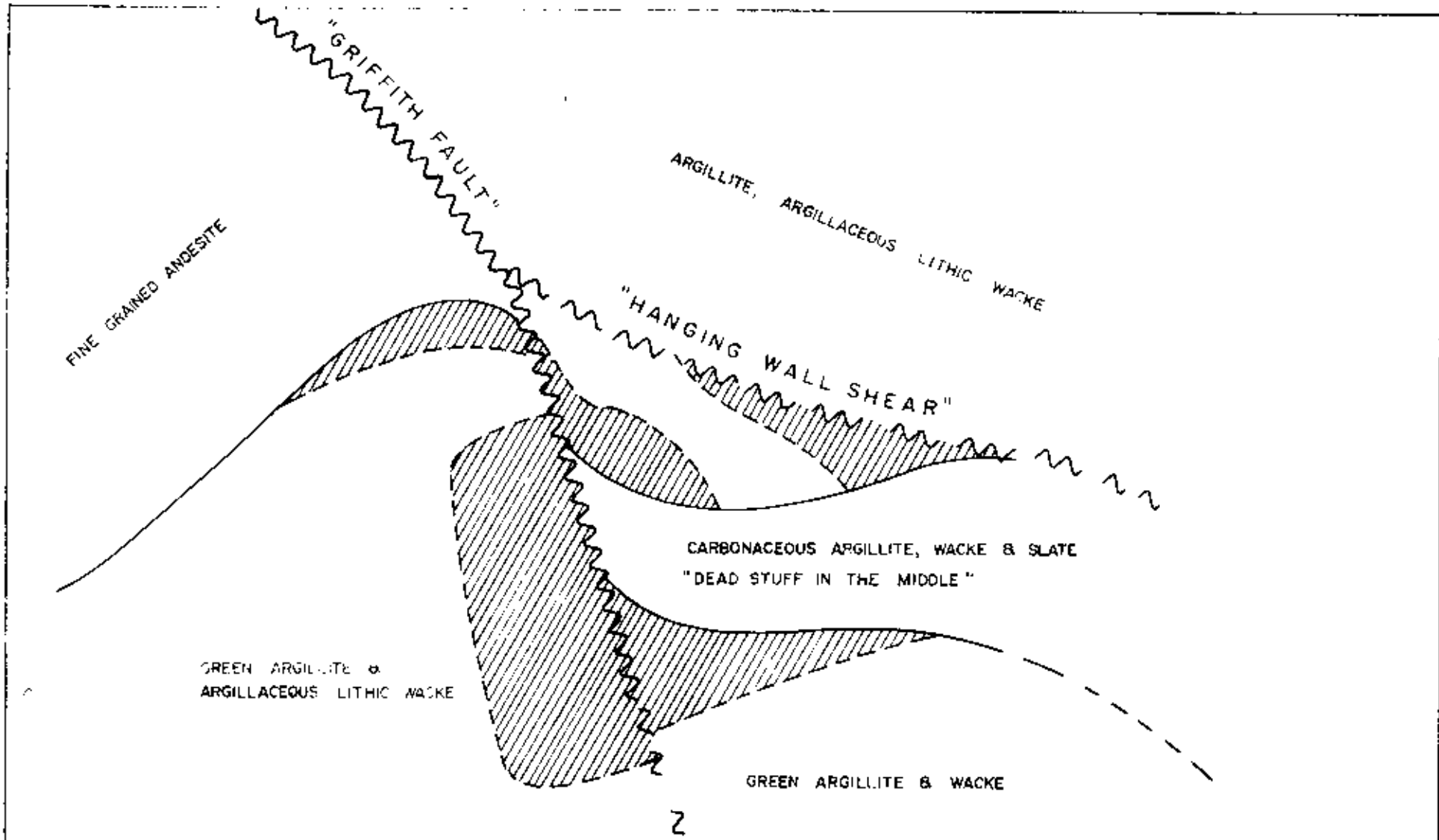
72.65m of 2.5m x 2.5m decline was driven at -20%. 68.3m of 2.5 x 2.5m crosscut was driven at +17% and -8%. 3 1.8mH. x 1.5m W x 1.5m D. safety bays were made and one 2.5m H. x 2.5m x 4.0m D. sump made.

The above physical work is being applied for credit on the Idaho group, and details of dates worked and expenditures are to be found in Section D-3 of this report. Fig. 55C in the jacket of this report shows the location of the above described work with respect to claim boundaries and geography.

C-2 DIAMOND DRILLING

3,204m of AQ underground diamond drilling was completed in 68 holes in order for further define and explore the gold deposit known as the Idaho Zone. Co-ordinates of the collar of each hole, inclination and azimuth are listed in the drill logs found in Appendix B of this report. A generalized cross section is shown on page 18 of this report as Fig. 2.

Between April 10, 1978 and May 31, 1978 the



GOLD BEARING MINERALIZED ZONE

GENERALIZED CROSS SECTION

Fig. 2



IDAHO ZONE

MINNE W - E.

Face N

Lodner Creek Project,

New Westminster Mining Division, Hope B.C.

Cochrane Consultants Limited
1000-10th St. Suite 200, Vancouver, B.C.

N.T.S 92H/1186

Scale 1 : 1,000

OWN D J B TRCB P E C DATE JULY 1978

underground workings had to be kept free from water and in accordance with the Mines Regulation Act, solely for the diamond drilling.

All of the above work is being applied for assessment work credit in a Portable Assessment Credit Account. Details of equipment, personnel, dates worked and expenditures are to be found in section D-4 of this report. Fig. 67-B in the jacket of this report shows the location of the above described work with respect to underground working and claim boundaries.

D ITEMIZED COST STATEMENT

D-1 ROADS, MUCK STORAGE AREA

1-a PERSONNEL & DATES (fraction or hours) WORKED

Griffith*# July 9,19,20,21,22,26, Aug 10,13,28($\frac{1}{2}$)

Smith* July 9,10,19,21,22,23,26, Aug. 2,3,4,5($\frac{1}{2}$),12,13($\frac{1}{2}$)

Willson # Aug. 8,9,10,11,12,13.

Bateham *# Dec. 15, Apr. 3,4,6,

Heino Dec. 15, Apr. 3,6,

Contract Labour:

July 4(11),5(11),6(10),9(6.5),10(8),19(5),20(3),
25(4),26(9),27(2.5),28(3),29(8.5)..

* 4x4 assigned to listed person on listed dates
room & board provided to listed person on
listed dates.

1-b EQUIPMENT & DATES (hours) WORKED

1972 D8-H

June 30(10), July 1(3),4(11),5(11.5),6(10),7(2),
8(2),9(10),10(8),11(4),13(11),14(5),15(5),16(1),
17(9),18(4),19(5),20(5),21(7),22(7.5),23(2.5),
24(1),25(5),27(4),28(7.5),29(15), Aug. 1(4),2(9),
3(7.5),4(12),5(12),8(9),9(8),11(5),12(3),13(8),
15(8.5),16(8),17(5),18(8),19(8),22(8),23(8),28(4):
Sept. 8(6.5),9(8),23(2),28(8),30(2), Oct. 7(4),22(3),
Nov. 10(8), Dec. 15(8).

Tandem Gravel Trucks

July 7(2),8(2),9(30),10(37),11(2),13(9),14(10),
15(10),16(1),17(10),18(4),19(9),21(15.5),22(12),
23(5),24(6),25(9),26(6),28(12.5),Aug. 1(7.5),2(12),
3(3),4(13),5(12),7(7.5),9(6.5),9(8),10(9),11(7),
12(2),14(4.5),15(11),16(6),18(3),21(9),22(12),
23(12),28(6),29(12),30,8),Sept. 1(5),6(8),7(8),
8(13),9(8),11(8),20(8),21(16),22(16),27(8),28(8),
29(14),30(20),Oct. 6(10.5),7(16),19(2),20(8),21(8).

Cat 950 Loader, July 9(13), 10(11).

D-8 Lowbed, Aug. 10(10)

Volvo 6x6, Apr. 11(8),12(8),13(8),14(4).

Dynahoe 76 Loader/backhoe, Apr. 11(8),12(8),13(8),14(4).

TD 25 Apr. 3(8),4(8),6(8).

1-c EXPENDITURES

Griffith	wages	8.25 days	@ \$71.50/day	589.88
Bateham	"	4.0 "	@ \$81.00 "	324.00
Smith	"	12.0 "	@ \$64.50 "	774.00
Willson	"	6.0 "	@ \$70.00 "	420.00
Heino	"	3.0 "	@ \$64.50 "	193.50
Contract Labour		81.5 hours	@ \$11.50 hour	937.25
24.25 days 4x4			@ \$25.00/day	606.25
18.25 man days room & board			@ \$15.00/day	273.75
1972 D-8		337.0 hours	@ \$45.00/day	15,165.00
Tandem Gravel Trucks		490.5 Hrs.	@ \$32.00/hour	15,696.00
"	"	56.0 Hrs.	@ \$28.00/hour	1,568.00

Cat 950	24 hours @ \$37.15/hour	891.50
D-8 & Lowbed (Cheam Contracting)		595.50
Volvo 6 x 6	28.0 hours @ \$40.00/hour	1,120.00
Dynahoe 76	28.0 hours @ \$30.00/hour	840.00
TD-25	24.0 hours @ \$50.00/hour	1,200.00
Miscellaneous Equipment & Supplies		<u>941.43</u>
TOTAL EXPENDITURES		\$ 42,136.06

D-2 SAMPLING PLANT

2-a PERSONNEL & DATES (fraction) WORKED

Griffith *#

Aug 12, 16($\frac{1}{2}$), 18, 20($\frac{1}{4}$), 22($\frac{1}{2}$), 23($\frac{1}{2}$), 24($\frac{1}{4}$), 27($\frac{1}{2}$), 28(3
28($\frac{3}{4}$), 29($\frac{1}{2}$), Sept. 13($\frac{1}{2}$), 15($\frac{1}{2}$), 29, Oct. 11, 12($\frac{1}{2}$),
17($\frac{1}{2}$), 20($\frac{1}{2}$), 28($\frac{1}{4}$), 31, Nov. 3($\frac{1}{4}$), 19($\frac{1}{4}$).

Bateham *#

Aug. 16-28, 30, 31, Sept. 1, 5-15, 29, 30, Oct. 1, 3-21, 23, 24,
25($\frac{3}{4}$), 26($\frac{1}{2}$), 27, Nov. 2, 3, 6, 7, 8, 9, 10($\frac{3}{4}$), 11, 12($\frac{1}{2}$),
13, 14, 15, 16($\frac{1}{2}$), 17, 18($\frac{1}{2}$), 19, 20($\frac{1}{4}$), 21($\frac{1}{2}$), 22($\frac{1}{2}$), 23($\frac{1}{2}$)
24($\frac{1}{2}$), 25($\frac{1}{2}$), 27, 28($\frac{1}{2}$), 29($\frac{1}{2}$), 30($\frac{1}{2}$), Dec. 1($\frac{1}{2}$), 2, 5($\frac{1}{4}$).

See

Aug. 17-28, 30, 31, Sept. 1, 6-10, 12-15, Nov. 1, 2, 16, 17, 18, 20

Heino *

Oct. 5-8, 11-14, 16-21, 24-28, 30, Nov. 1-4, 6-10, 13-18,
20-25, 27-30, Dec. 1-6.

Savoie

Sept. 30, Oct. 4-8, 11-14, 16-21, 24, 25, 26($\frac{1}{2}$), 28, 30,
Nov. 1-4, 7-10, 13-17, 22-25, 27-30, Dec. 1-6.

Willson # Nov. 1, 2.

- * 4 x 4 assigned to listed person on listed dates
- # Room & board supplied to listed person on listed dates.

2-b EQUIPMENT, DATES (hours) WORKED

1972 D8H

Oct. 11(9), 12(4).

J.D. 450B Crawler Loader

Nov. 13,(8), 14(4), 15(4), 16(4), 17(4), 18(8), 20(6),
21(4), 22(6).

Grove 50 Ton Crane.

Oct. 11, 12.

2-c EXPENDITURES

Griffith	wages	12.5 days	@ \$71.50/day	893.75
Bateham	"	73.25 "	@ \$81.00/ "	5,933.25
Smith	"	15.0 "	@ \$64.50 "	967.50
See	"	30.0 "	@ \$55.00 "	1,650.00
Heino	"	51.0 "	@ \$64.50 "	3,289.50
Savoie	"	48.5 "	@ \$64.50 "	3,128.25
Willson	"	2.0 "	@ \$71.50 "	143.00
136.75 days	4 x 4		@ \$25.00 "	3,418.75
87.75 man days	room & board		@ \$15.00 "	1,316.25
D-8		13 hours	@ \$45.00 hours	585.00
Grove 50T crane,	Super Crane & Rigging Ltd.			1,771.60
John Deere 450B Loader,	48hrs.	@ \$27.50/hour		1,320.00
Transporting plant to site,	Hope Frt. Lines			1,117.95
67 yds concrete,	Hope Reddi Mix			3,512.25

Lumber	Dueck's Building Supplies	2,703.77
Roofing	Westland Metals	298.98
Wiring	Hope Electric	953.06
Rebar	Debro Products	340.31
Machine Work	Hope Machine Shop	1,811.60
Cable, clamps, rigging,	Hope Indust. Supplies	1,770.59
Miscellaneous goods & supplies		<u>639.87</u>
TOTAL EXPENDITURES		\$ 37,565.23

D-3 UNDERGROUND ACCESS

3-a EXPENDITURES

Aug. 1 - Sept. 31, R.F. Fry & Associates (Pacific) Ltd.
Firm price invoice \$ 70,302.45

D-4 DIAMOND DRILLING

4-a PERSONNEL & DATES (fractions) WORKED

Griffith *#

Oct. 9($\frac{1}{2}$), 13($\frac{1}{4}$), 14($\frac{1}{4}$), 15($\frac{1}{4}$), 17($\frac{1}{4}$), 19($\frac{1}{4}$), 20($\frac{1}{4}$), 21($\frac{1}{2}$),
22($\frac{1}{2}$), 24($\frac{1}{4}$), 26($\frac{1}{4}$), 27($\frac{1}{4}$), 28($\frac{1}{2}$), 29($\frac{1}{4}$), 30($\frac{1}{4}$), 31($\frac{1}{4}$),
Nov. 1($\frac{1}{2}$), 2($\frac{1}{2}$), 4($\frac{1}{4}$), 5($\frac{1}{4}$), 7($\frac{1}{2}$), 8($\frac{1}{2}$), 10($\frac{1}{2}$), 11, 12($\frac{1}{4}$),
19($\frac{1}{2}$), 22($\frac{1}{2}$), 23($\frac{1}{2}$), 24($\frac{1}{4}$), 25($\frac{1}{4}$), 26($\frac{1}{4}$), 29($\frac{3}{4}$), Dec. 2($\frac{1}{4}$)
4($\frac{1}{4}$), 18($\frac{1}{4}$), 19($\frac{1}{4}$), 20($\frac{1}{4}$), 21($\frac{1}{4}$), 22($\frac{3}{4}$), 29($\frac{1}{2}$), 30($\frac{1}{2}$),
Jan. 8($\frac{1}{4}$), 21($\frac{3}{4}$), 22($\frac{1}{4}$), 26($\frac{1}{4}$), 27($\frac{1}{4}$) 28($\frac{3}{4}$), 30($\frac{1}{4}$),
31($\frac{1}{4}$), Feb. 2($\frac{1}{4}$), 4($\frac{3}{4}$), 5($\frac{1}{4}$), 12($\frac{1}{4}$), 13($\frac{1}{4}$), 14($\frac{3}{4}$),
15($\frac{1}{2}$), 16($\frac{1}{4}$), 18($\frac{1}{4}$), 19($\frac{1}{2}$), 21($\frac{1}{2}$), 24($\frac{1}{2}$), 25($\frac{1}{2}$), 26($\frac{3}{4}$),
27($\frac{1}{2}$), Mar. 1($\frac{1}{4}$), 4($\frac{1}{4}$), 5($\frac{3}{4}$), 6($\frac{1}{2}$), 7($\frac{1}{2}$), 8, 9($\frac{1}{4}$), 10($\frac{3}{4}$),
11($\frac{1}{2}$), 12($\frac{1}{4}$), 13($\frac{1}{4}$), 15($\frac{1}{2}$), 17($\frac{1}{2}$), 19($\frac{1}{2}$), 22($\frac{1}{4}$),
25($\frac{1}{4}$), 26($\frac{1}{2}$), 27($\frac{1}{2}$), 28($\frac{1}{2}$), 29($\frac{1}{4}$), 30($\frac{1}{2}$), 31($\frac{1}{4}$), Apr. 1($\frac{1}{4}$),
2($\frac{1}{4}$), 3($\frac{1}{4}$), 4($\frac{1}{4}$), 6($\frac{1}{4}$), 8($\frac{1}{4}$), 10, 11($\frac{1}{2}$), 12($\frac{3}{4}$), 14, 15($\frac{1}{2}$),

16($\frac{1}{4}$), 17, 18($\frac{1}{2}$), 19, 20($\frac{1}{2}$), 21($\frac{1}{4}$), 22($\frac{1}{4}$), 23($\frac{1}{2}$), 24($\frac{1}{4}$),
25($\frac{1}{4}$), 27($\frac{1}{4}$), 28, 29($\frac{1}{4}$), 30($\frac{1}{2}$), May 1, 2($\frac{3}{4}$), 4($\frac{3}{4}$),
5, 6($\frac{1}{2}$), 7, 8, 9($\frac{1}{4}$), 10($\frac{1}{2}$), 11($\frac{3}{4}$), 12($\frac{3}{4}$), 13($\frac{1}{4}$), 14($\frac{1}{4}$),
15, 16($\frac{1}{4}$), 17, 18($\frac{1}{2}$), 19($\frac{1}{2}$), 20, 21, 22, 23($\frac{3}{4}$), 24($\frac{1}{4}$),
25($\frac{3}{4}$), 26($\frac{3}{4}$), 28, 29($\frac{3}{4}$), 30($\frac{3}{4}$), 31($\frac{1}{4}$), June 1($\frac{1}{2}$),
2($\frac{3}{4}$), 3($\frac{1}{2}$), 4, 5($\frac{1}{4}$), 7($\frac{1}{4}$), 8($\frac{1}{4}$), 9($\frac{1}{4}$), 10($\frac{1}{2}$), 11, 12($\frac{1}{2}$).

Bateham *#

Nov. 21, ($\frac{1}{2}$), 22($\frac{1}{4}$), 23($\frac{1}{2}$), 24($\frac{1}{2}$), 25($\frac{3}{4}$), 28($\frac{1}{2}$), 29($\frac{1}{2}$),
Dec. 1($\frac{1}{2}$), 3($\frac{1}{4}$), Jan. 8($\frac{1}{4}$), 9($\frac{1}{4}$), 10, 25, Apr. 12($\frac{1}{2}$), 13($\frac{1}{2}$),
14-21, 22($\frac{1}{2}$), 23, 24, 25($\frac{1}{2}$), 30, May 1($\frac{1}{4}$), 2($\frac{1}{2}$), 3, 4, 5, 7,
8($\frac{1}{2}$), 9($\frac{1}{2}$), 10($\frac{1}{2}$), 11, 12($\frac{1}{2}$), 13-18, 19($\frac{1}{2}$), 20, 21, 22($\frac{1}{2}$),
23-27, 28($\frac{1}{2}$), 29, 30($\frac{1}{2}$), 31($\frac{1}{4}$).

See

Oct. 24-29, Nov. 5($\frac{1}{2}$), 7($\frac{1}{2}$), 10, 11($\frac{1}{4}$), 14, 15, 21-26, 28, 29,
30, Dec. 1, 2.

Smith

Nov. 3($\frac{1}{2}$), 4($\frac{1}{2}$), 23($\frac{1}{4}$), 25, 29($\frac{1}{2}$), Dec. 1($\frac{3}{4}$), 2($\frac{3}{4}$),
3($\frac{1}{2}$), 5($\frac{1}{4}$), 13($\frac{1}{4}$), Jan. 4($\frac{1}{2}$)

Willson #

Dec. 4($\frac{1}{4}$), 5($\frac{3}{4}$), Jan. 9($\frac{3}{4}$), 10($\frac{1}{2}$), 20($\frac{3}{4}$), Feb. 13($\frac{1}{4}$),
Mar. 6($\frac{1}{4}$).

Halliday #

Dec. 27, 28, 29, Jan. 1,

Savoie, 8

Jan. 28, 29, Feb. 4, 5, 12, 19, Mar. 5, 12, 18, 19, 27, 28,
Apr. 1, 8, 22, 23, 29, May 6, 7, 9($\frac{1}{2}$), 13, 15, 16, 17, 18, 19
23-26, 29, 30, 31, June 1, 2, 5-10.

Heino

Jan. 9($\frac{1}{4}$), 10($\frac{1}{2}$), Feb. 6($\frac{1}{2}$), 27, Mar. 23, Apr. 11, 19($\frac{1}{2}$),
20($\frac{1}{2}$), 23, 26, 27($\frac{1}{4}$), 28($\frac{1}{4}$), 30($\frac{1}{2}$), May 8, 9($\frac{1}{4}$), 10($\frac{1}{2}$)

Savoie L.

Jan. 9($\frac{1}{4}$), 10($\frac{1}{2}$), Feb. 6($\frac{1}{2}$), Mar. 23.

- * 4 x 4 assigned to listed person on listed dates
- # Room & board provided to listed person on listed date.

4-b EQUIPMENT DATES WORKED

April 10, 1978 to May 3, 1978 1.67 mo.

2- 30HP electric pumps	Flyght Canada Ltd.
1- 30HP " " (standby)	" " "
1- 3.5 " "	" " "
1- 30HP automatic starter	" " "
1- 130Kw. diesel generator(standby)	" " "
1- 100Kw. Cat diesel generator	Silver Falls Investments.
30HP Fan rental	White Mines Development
Pipe & Ventilation Ducting	" " "
Dry	" " "
Receiver Tank	R.F. Fry

4-c EXPENDITURES

Griffith	wages	73.75 days	@ \$71.50	5,273.13
Bateham	"	44.75 "	@ \$81.00	3,624.75
See	"	21.25 "	@ \$57.15	1,214.44
Smith	"	6.0 "	@ \$64.50	387.00
Willson	"	3.5 "	@ \$71.50	250.25

Halliday	Wages	4.0 days	@ \$50.00	200.00
Savoie, B.	"	40.5 "	@ \$45.00	1,822.50
Heino	"	10.0 "	@ \$64.50	645.00
Savoie, L.	"	1.75 "	@ \$64.50	112.00
Diamond Drilling	Kema Drilling			138,090.7
448.5 hr. air supply	@\$15.50/hr. R.F. Fry			6,951.75
625.5 hr. air supply	@\$16.50/hr. White Mine			10,320.75
Development				
Misc. Goods & services,	R.F. Fry & White			1,587.30
Mine Development				
Setting up pumps-Apr.11778,	White Mine			888.25
Development				
225m. 4/6/ electric cable	Axner-Turner			1,051.37
Lumber for core shacks-racks,	Dueck's			1,567.68
Building Supplies				
490 core boxes @\$3.58 ea.,	E.G. Whalley			1,756.41
1,462 Assays @ \$5.00 ea.,	Bondar Clegg			7,310.00
177 Control Assays @ \$14.00,	Loring Labs.			2,478.00
Misc. shipping				250.00
118.5 day 4 x 4 @ \$25.00/day				2,962.50
126.0 Man days room & board @ \$15.00/day				1,890.00
Pumps & standby generator rental				5,744.22
Flyght Canada Ltd..				
Fan, pipe & dry rental	White Mine			2,980.95
Development				
100 Kw. Generator rental,	Silver Falls			3,340.00
Investments				

Receiver tank rental, R.F. Fry	175.35
4,680 gal. diesel @ \$0.677/gal	<u>3,168.36</u>
Imperial Oil Co.	\$ 206,051.91
TOTAL EXPENDITURES	

[Handwritten signature]
for

David Griffith

Respectfully submitted

David Griffith
June 29, 1978
Lear, B.C.

APPENDIX A

CERTIFICATE

I, David J. Griffith of the City of Vancouver,
British Columbia, do hereby certify that:

1. I am a graduate of Queen's University at Kingston with a degree in English, (B.A.) 1970 and a graduate of the University of British Columbia with a degree in Geology (B.Sc. Hon.), 1973.

2. I have practised my profession continuously since graduation while being employed by such companies as Carolin Mines Ltd., Precambrian Shield Resources Ltd. and Cochrane Consultants Ltd.



David Griffith,
June 29, 1978,
Vancouver, B.C.

Underground
Diamond Drill Hole Catalogue
(Geology logs and assays)

from the

Idaho Gold Zone
(located near Hope, B.C.)

and owned by

CAROLIN MINES LTD.

of

Vancouver, B. C.

Second Edition:

Drill holes IU 1 to IU 68 incl.
July, 1978.



Cochrane Consultants Limited
4882 Delta St., Delta, B.C. V4K 2T8 946-9221
Geotechnical Consulting / Exploration Services

geology
geophysics
geochemistry

TABLE OF CONTENTS

INTRODUCTION

Appendix I	Notes regarding Assaying
Appendix II	Notes regarding Surveying
Appendix III	Notes on Geological Code
Appendix IV	Geology Code
Appendix V	Table of Underground A.Q. Drill Hole Locations and Attitudes
Appendix VI	Drill Hole Logs and Assays



INTRODUCTION

On October 4, 1977, Carolin Mines Ltd. signed an agreement with Kema Krilling Inc. of Princeton B. C. for a minimum of 1500 metres of underground A.Q. diamond drilling on the Idaho Gold Zone, located near Hope B. C. Drilling commenced shortly thereafter deploying a JV underground air powered drill. The following catalogue lists samples split from the core by conventional core splitting methods, (completed at the field camp at Lear B. C.), with $\frac{1}{2}$ of the core being bagged, tagged and sent to assay. The remainder of the core is stored at the Lear-field camp. The assay procedure is described in Appendix I.

Each underground hole was surveyed, and a set of "mine" latitude departures and elevations was calculated. Since 1975, all surveying, and all units are metric (in metres) Appendix II describes the survey procedure and conversion from surface (astronomic north) bearings to "mine" grid coordinates. Surface drill holes #1 to #33 were drilled by Carolin Mines Ltd. and are prefixed O.C. Surface holes #34 to #39 were drilled while the property was optioned to Precambrian Shield/Numac Oil and Gas and these holes have no prefix. Underground holes have the prefix I.U. (Idaho Underground).



Please Note: For short drill holes, the diamond drillers use the conversion of 10' \approx 3.0 metres.

Between October 4, 1977 and May 31, 1978 a total of 3,170 meters of underground A.Q. wire line drilling was completed on the Idaho Zone by Kema Drilling, and in a total of 68 drill holes. (See appendix II for notes on position of holes.)



Appendix I

Note on the Assays

To accompany Xerox copies of
Surface drill holes 1 - 39
and/or Underground Drill Holes

Carolin Mines, Ladner Creek Project

All surface diamond drill holes (#1 thru #39 inclusive) and underground holes were assayed by Bondar Clegg and Co. Ltd. in Vancouver, B. C. The gold values reported are in troy ounces per short ton. Bondar Clegg's procedure is a standard fire assay one, however if the assay is fairly low, (say below 0.25oz.) the bead is dissolved in aqua regia and the final result is obtained by atomic adsorption methods.

Surface holes OG #1 thru OG#10 had occasional checks by Warnock Hersey International Limited, of Vancouver.

In March, 1974 it was decided to institute a systematic check assay system, and to ship approximately every 10th sample first to Bondar Clegg, and secondly to Loring Laboratories Ltd. of Calgary Alberta. Loring Labs conduct a "control" gold fire assay, that is the assay from

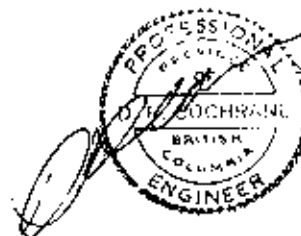


any particular sample is run in duplicate (effectively two assays). If the two assays agree fairly well they are averaged (i.e. an 0.10 and 0.12 becomes 0.11). If the discrepancy is large (say over 20% at the low end, but more in the +0.2 range) a third assay is completed and the closest two averaged.

Values reported in the right hand column marked with L are Loring's control assays.

Where both Bondar Clegg and Loring "control" assays are reported it has been customary to average as follows:

$$\text{average grade} = \frac{1 \times \text{Bondar Clegg Assay} + 2 \times \text{Loring Assay}}{3}$$



D. R. Cochrane, P. Eng.
February, 1978



APPENDIX II

NOTES ON SURVEYING, SURFACE AND MINE LATITUDES, DEPARTURES
AND ELEVATIONS. LADNER CREEK PROJECT -- CAROLIN MINES LTD.

D. R. Cochrane, P. Eng.

December 21, 1977

The central point (hub) of the surface (and surface to underground) co-ordinate system is survey station WW34 situated on the Idaho crown granted mineral claim (Lot. #1234) some 86 metres (282 feet) north-east of its common boundary with the Aurum #1 and #2 Crown Grants (lots 1236 and 1237 respectively). It is located in section 27, Township 6, Range 25, west of the 6th meridian, Yale Land District, New Westminster Mining Division. The latitude of WW 34 is $49^{\circ}30'30''$ north, and longitude $121^{\circ}17'$ west. The station is a semi-permanent one, that is a wooden stake driven into a large stump, one metre high off the road level.

The coordinates for survey station WW34 are as follows.

<u>English System</u>			<u>Metric System</u>		
Latitude(N)	Departure(E)	Elevation(ft.)	Lat. (N)	Dep. (E)	Elev. (m)
10,000	10,000	3425.00	3048.00	3048.00	1043.94



The metric coordinates are a simple conversion from their english counterparts. The surface grid is layed out astronomic north-south, east-west.

The underground (mine) grid system is entirely metric and is layed out such that mine north is $N33^{\circ}30'W$ of astronomic north. Station WM34 has arbitrarily selected, metric mine grid coordinates of 600 north; 490 east;

The conversion from the metric underground to metric surface coordinates is as follows.

$$\begin{aligned} \text{Surface latitude} &= \text{mine departure} \times \sin 33^{\circ}30' + \\ &\quad \text{mine latitude} \times \cos 33^{\circ}30' + \\ &\quad 2277.22 \end{aligned}$$

$$\begin{aligned} \text{Surface departure} &= \text{mine departure} \times \cos 33^{\circ}30' - \\ &\quad \text{mine latitude} \times \sin 33^{\circ}30' + \\ &\quad 2970.562 \end{aligned}$$

For example the mine coordinates for underground station 1032 in the 700 cross cut are:

Latitude 696.227 (N)

Departure 523.382 (E)

therefore the surface coordinates are as follows:



$$\begin{aligned}\text{surface latitude} &= 523.382 \sin 33^{\circ}30' + 696.227 \cos 33^{\circ}30' + \\ &2277.22 \\ &= 3146.668\text{N}\end{aligned}$$

$$\begin{aligned}\text{surface departure} &= 523.382 \times \cos 33^{\circ}30' - 696.227 \sin \\ &33^{\circ}30' + 2970.562 \\ &= 3022.729\end{aligned}$$

Surface surveying in 1974 and 1974 was with English unit chains and rods, and currently is with metric equipment. The same transit (a K & E Miner) has been used throughout.

DDE



APPENDIX III

ROCK TYPE CODE (Modified Geological System)

All rock names are reduced to a four letter code with the view that the four letter rock names should be readable where possible. A description of the different rock types is given below. The basic rock type, eg. argillite, wacke etc. is expressed by the last two letters of the four letter code. The first two letters indicate a distinctive feature which serves to differentiate two similar rocks, eg. there are several different wackes that can thus be readily distinguished.

The following is a list of the basic rock types and their abbreviations which may be found in the last two letters of the four letter rock type code.

AN	<u>a</u> ndesite
AR	<u>a</u> rgillite
BS	<u>b</u> asalt
CG	<u>c</u> onglomerate
SH	<u>s</u> chist
SL	<u>s</u> late
VN	<u>v</u> ein
WA	<u>w</u> acke
XX	undefined rock



The following is a list of two letter symbols which may appear as the first two letters in the four letter rock type code, but are not minerals. Where the first two letters represent a predominant mineral, the explanation is listed in the minerals index.

AR	<u>argillite</u>
BD	<u>bedded, banded</u>
CA	<u>calcareous</u>
FL	<u>feldspathic</u>
GR	<u>graphitic, carbonaceous</u>
LI	<u>lithic</u>
MA	<u>massive</u>
MB	<u>mudball</u>
MM	very massive
ND	<u>green</u> with black (<u>dark</u>) grains
NW	<u>green</u> with <u>white</u> grains
NX	<u>green</u> with undefined grains
WA	<u>wacke</u>
XX	undefined

Exceptions to the above rules are

CHER	<u>chert</u>
CRAP	altered and/or fractured beyond recognition

Examples of the four letter rock type code.

BDAR	<u>bedded argillite</u>
MBCG	<u>mudball conglomerate</u>



ROCK TYPE MODIFIERS

The four letter rock type code is followed by up to three one symbol modifiers. The first modifier may be either a letter or a numeral. The numeral is used to differentiate between two rocks with the same name, but are distinct. eg.

FLWAI	<u>f</u> eldspathic <u>w</u> acke number one
FLWA2	" " " two

The second and third possible modifiers can only be letters. The following is a list of rock type modifiers which may occur.

	Colours
A	<u>g</u> ray
B	<u>b</u> rown
D	black (<u>d</u> ark)
N	<u>g</u> reen
P	<u>p</u> urple
R	<u>r</u> ed
T	<u>t</u> an
U	<u>b</u> lue
W	<u>w</u> hite
Y	<u>y</u> ellow



C	<u>c</u> oarse (grans, clasts, crystals)
F	<u>f</u> ine
H	<u>h</u> ard (H _p 5.5)
K	<u>w</u> eak
L	minor
M	<u>m</u> oderate, medium
S	<u>s</u> trong
V	<u>v</u> ariable
Z	<u>z</u> ero



APPENDIX IV

ROCK TYPE DESCRIPTIONS

The following is a brief hand specimen description of the rock types and their variations in a generalized order of their appearance in a drill hole. Not all of the rocks necessarily appear in any one hole.

Numbers in brackets refer to the thin section and polished section reports listed below. The number in the interior brackets or alone refers to the report in general, the notation where present in the exterior brackets is the section or specimen designation within the particular report.

Differences between the following descriptions and thin section descriptions are partly due to a reclassification of rocks since the thin sections were studied, and the problem of a small number of thin sections representing a large volume of variable rock.



TYPE	DESCRIPTION
MBGG	<p>Mudball conglomerate. Grey and green argillaceous mudballs in a dark grey argillaceous matrix. Bedding where discernable in the matrix is sometimes cut by the clasts and sometimes is wrapped around them. Clasts are well rounded and are spherical to elliptical in cross section. They range in size from $\frac{1}{2}$" - > 2" in median diameter. About 80% of the rock is clasts, the remainder is matrix. Calcite and pyrrhotite tend to occur in the clasts, rather than in the matrix.</p>
LIWA	<p>Argillaceous lithic wacke. Prominent black argillaceous fragments stretched parallel to the bedding. The fragments are extremely angular with "tails" sometimes spun off the end of a fragment, suggesting that the fragments were semiconsolidated when deposited. Other fragments of pale green argillaceous material occur. All fragments appear very similar to other rocks in the immediate vicinity. The overall colour is pale green but is occasionally reddish brown or light grey. The rock may be fine grained to very coarse, with fragments up to $\frac{1}{2}$" median diameter. When interbedded with finer grained rocks pyrrhotite</p>



tends to occur in this rock. Occasional graded bedding is observed. ((2)M-15)
((1)G-6)

WAAR Bedded silty argillite. 1/8" - 1/2" alternating beds of pale green massive argillite with approximately 10% silt sized grains and light grey argillite. Sometimes this rock type exhibits strong soft sediment folding and fracturing, and individual beds may be discontinuous. The grey argillite may also be dark grey-black which is probably due to an increase in carbonaceous content. ((2)M-6)

BDAR Bedded argillite. Pale green argillite with bedding defined by bands of grey argillite. This rock type sometimes exhibits strong soft sediment folding and fracturing. Bedding is generally regular. Occasionally this rock has a reddish brown or grey colour. ((2)M-7)



- MAAR Massive argillite. Greenish grey with very thin irregular black streaks which are sometimes sub-parallel. No bedding information discernable. This rock is occasionally very hard (H-5.5) which may be due to it being a cherty argillite. ((2)M-8)
- MMAR Same as MAAR but without any black streaks.
- CHER Massive green-grey to black chert. Occasional bedding is defined by colour banding.
- CLSH Hanging wall chlorite schist. Green fine grained with very strong slickensided cleavage parallel the chlorite which makes up nearly 100% of the rock. Occasionally this rock is medium grained and some of the chlorite appears to be oriented in random directions, though the cleavage and associated slickensided chlorite are still well developed. ((2)M-12)
- BISH Hanging wall biotite chlorite schist. Reddish brown fine grained with very strong slickensided cleavage parallel the biotite and chlorite which make up nearly 100% of the rock. ((2)M-4)



- ABCB Albite carbonate rock. White-light grey to tan. Colour variation sometimes gives a banded appearance which reflects composition banding. Veinlets of quartz, albite, carbonate and sulphides with complex interrelationships. Original rock has been up to 100% replaced. Minor patches of fine grained chlorite. (1), (3)
- FLWAI Recrystallized feldspathic wacke. White to grey hard (H > 5.5) rock. Bedding and/or composition banding sometimes evident and defined by colour variation and/or slight variation in grain size. Fine grained to very fine grained fragments of what is now albitic feldspars. Veinlets of quartz, albite, carbonate and sulphides. ((2)M-5)
- FLWA2 Feldspatic wacke. Fine to medium grained grey to reddish brown rock. Bedding usually indiscernible. May contain up to 30% - 40% calcite as grains and/or cement. This rock type usually contains anomalous sulphides and can occasionally be confused in a hand specimen with ABCB. ((2)M-14)



- CLSH2 Ore zone chlorite schist. Green-grey fine grained rock with a cleavage and chlorite on the cleavage. Under thin section the apparent amount of chlorite is much higher than appears in a hand specimen.
(2)M-10
- GRAR Carbonaceous argillite, Dark grey massive argillite . Occasional colour banding defines bedding. Graphite often developed on the cleavage when present. This rock is usually found between the Upper and Lower Idaho Zones.
(2)M-3
- MBSL Carbonaceous mudball slate. Dark grey argillite with occasional (<5%) 1/8" median diameter mudballs of a pale green argillaceous material. Very occasional mudballs up to 1/4" median diameter. Well developed cleavage usually with graphite on the cleavage. Sulphides and calcite tend to concentrate in the mudballs.
(2)M-9
- GRSL Same as MBSL but without mudballs. This rock has a stronger cleavage and better developed graphite on the cleavage. This rock is usually found between the Upper and Lower Idaho Zones as is MBSL.



- NXWA Green wacke. Fine to medium grained green rock. Usually a well developed cleavage with chlorite and clay on the cleavage. Bedding is occasionally available and is defined by colour variation and a slight variation in grain size. This rock is usually associated only with the Lower Idaho Zone.
- NDWA Green wacke. Fine to medium grained green rock with black argillaceous grains. Same as NXWA, but NXWA has not been broken down between NDWA and NWA.
- NWA Green wacke. Fine to medium grained green rock with white calcareous and/or feldspathic and/or quartz grains which sometimes appear to be porphyroblastic. Same as NXWA but NXWA has not been broken down between NDWA and NWA.
- XXAN Andesite. Aphanitic to fine grained green rock. Considerable chlorite, epidote and carbonate alteration (4)

D. Griffith, B.Sc. (Geology)



ROCK TYPE DESCRIPTION REFERENCES

Montgomery, Dr. J.H.,

May 16, 1974, Petrographic Report for Carolin Mines
internal report.

Montgomery, Dr. J.H.

June 10, 1974, Petrographic Report on Diamond Drill
Core from Idaho Zones, Carolin Mines
Ltd., internal report.

Sinclair, Dr. A.J.,

May 31, 1974, Report on Nine Polished Sections
for Carolin Mines Ltd., internal report,

Cairnes, C.E.,

1924, Coquihalla Area, B.C., Mem. 139
G.S.C., page 33.



APPENDIX V

TABLE of UNDERGROUND A.Q. DRILL HOLE LOCATIONS AND ATTITUDES

(Metric Mine Grid Coordinates and Bearings)

DRILL HOLE	LAT.(N)	DEP.(E)	BEAR(^o)	INC.	EL. COLLAR	DEPTH(m)
IU-1	600.87	515.18	90	+36	966.44	51.00
IU-2	"	"	"	+47	"	51.00
IU-3	"	"	"	+58	"	49.80
IU-4	600.61	533.76	90	+34½	969.20	44.30
IU-5	600.71	547.35	90	+35	968.87	29.10
IU-6	600.36	544.76	270	-36	966.55	40.20
IU-7	600.44	558.59	90	+35	967.36	24.60
IU-8	600.49	555.50	270	-35	964.88	33.30
IU-9	600.53	570.61	90	+35	966.56	12.90
IU-10	600.14	568.10	270	-37	964.35	57.00
IU-11	664.87	519.05	--	-90	949.31	70.15
IU-12	664.85	519.13	--	+90	952.73	20.40
IU-13	664.87	520.23	90	+40	952.09	28.80
IU-14	664.86	520.79	90	0	950.50	37.60
IU-15	664.27	515.86	270	-45	949.45	30.18
IU-16	700.48	533.64	270	-30	940.086	41.77
IU-17	700.61	536.14	270	-64	939.77	45.12
IU-18	700.677	538.692	90	+36	942.734	15.24
IU-19	699.66	534.843	--	-90	939.734	50.03
IU-20	699.66	534.85	--	+90	942.87	8.54
IU-21	626.49	501.441	90	+20	958.615	42.60
IU-22	696.97	564.67	--	+90	935.63	11.90
IU-23	696.97	564.67	--	-90	932.54	73.50

APPENDIX V (cont.)

TABLE OF UNDERGROUND A.Q. DRILL HOLE LOCATIONS AND ATTITUDES
(Metric Nine Grid Coordinates and Bearings)

DRILL HOLE	LAT.(N)	DEP.(E)	BEAR(°)	INC.	EL. COLLAR	DEPTH(m)
1U-24	696.753	562.688	270°	-25½°	932.659m	23.90m
1U-25	696.829	566.611	90°	+45°	936.200m	28.20m
1U-26	702.38	563.30	90°	0°	935.06	47.80m
1U-27	700.72	534.02	270°	-½°	941.62	57.60m
1U-28	598.910	509.74	0°	+90°	966.805	57.60m
1U-29	732.966	536.824	270°	0°	928.317	69.50m
1U-30	733.17	539.68	90°	+56°	929.87	45.40m
1U-31	733.13	540.27	90°	+10°	929.42	65.30m
1U-32	739.79	537.29	270°	-45°	927.27	50.90m
1U-33	736.01	535.85	0°	-90°	927.28	57.35m
1U-34	804.24	520.15	+27°	90°	909.57	41.50m
1U-35	804.24	520.19	--	90°	908.11	54.90m
1U-36	804.37	518.04	--	+90°	910.46	36.30m
1U-37	804.76	518.48	--	-90°	906.88	78.95m
1U-38	804.55	515.97	270°	-58°	906.80	89.65m
1U-39	804.54	514.98	270°	-32°	906.89	62.50m
1U-40	804.60	514.90	270°	+6°	908.63	67.70m
1U-41	766.57	506.00	--	-90°	916.60	60.00m
1U-42	766.12	504.56	270°	-39°	916.57	49.10m
1U-43	766.33	504.06	270°	0°	917.73	63.70m
1U-44	766.67	507.84	90°	+56°	919.94	25.90m
1U-45	766.93	508.92	90°	+20°	918.87	25.00m

APPENDIX V (cont.)

TABLE OF UNDERGROUND A.Q. DRILL HOLE LOCATIONS AND ATTITUDES
(Metric Mine Grid Coordinates and Bearings)

DRILL HOLE	LAT. (N)	DEP. (E)	BEAR (°)	INC.	EL. COLLAR	DEPTH(m)
IU-46	766.70	508.55	90°	-20°	917.17	31.10m
IU-47	766.12	504.60	270°	-45°	916.57	34.15m
IU-48	836.70	513.97	90°	+5°	902.07	67.40m
IU-49	836.81	513.63	90°	+45°	902.74	36.60m
IU-50	836.92	512.70	90°	+85°	903.12	33.50m
IU-51	836.80	512.70	90°	-62°	899.65	54.25m
IU-52	837.44	511.78	--	-90°	899.66	60.35m
IU-53	837.65	509.50	270°	-47°	899.65	100.60m
IU-54	837.73	508.56	270°	-5°	837.73	55.50m
IU-55	837.81	508.70	270°	+35°	902.56	77.15
IU-56	837.59	510.07	270°	+62°	902.69	52.75m
IU-57	867.24	518.01	90°	-70	893.02	71.35m
IU-58	867.47	519.77	90°	+6°	894.59	60.75m
IU-59	867.44	519.11	90°	+43°	895.69	30.20m
IU-60	867.50	518.25	90°	+85°	896.39	23.80m
IU-61	866.55	516.30	270°	-70°	893.02	53.95m
IU-62	866.53	515.70	270°	-35°	893.87	54.00m
IU-63	866.62	515.53	270°	0°	894.58	57.40m
IU-64	866.61	515.56	270°	+35°	895.96	60.05m
IU-65	866.66	515.98	270°	+65°	896.36	46.65m
IU-66	835.88	510.18	180°	-28°	900.00	99.70m
IU-67	626.49	499.54	90°1	+52°	959.62	48.10m
IU-68	867.47	519.77	90°	+5°	894.39	38.40m

PROPERTY IDAHO ZONE

DIP TEST		
Footage	Angle	
	Reading	Corrected
collar	+36°	

Diamond Drill Record METRIC - MINE GRID COORDINATES



Cochrane Consultants Limited

HOLE No. IU-1 Sheet No. 1 of 2 Lot 600.87 Total Depth 51.00m
 Section 600 N Dep. 515.18 Logged By D. Griffith
 Date Begun Bearing 90° Claim IDAHO
 Date Finished Oct./77 Elev. Collar 966.4 Core Size A-Q

DEPTH	DESCRIPTION	CORE rec. %	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	Bonder Au(oz/t)	Loring Au(oz/t)
0.0-6.20	WARRA; BED/CLV/GR 70° →	85	IU-1-1	0.00m	1.65m	1.65m	0.013	
	60°; 2% QZ H BED; 5% CA;	95	IU-1-2	1.65m	3.30m	1.65m	0.028	
	0.2% PR; 0% AS, PY, CP, K FRC	95	IU-1-3	3.30m	4.72m	1.42m	0.006	
	"DEAD STUFF IN THE MIDDLE"	80	IU-1-4	4.72m	6.20m	1.48m	0.011	
6.20-9.65	WARRA, LIWAF. BED 0°-60°; CLV/	99	IU-1-5	6.20m	8.10m	1.90m	0.025	
	GL/GR 60°; 5% QZ PAR CLV; 5%	95	IU-1-6	8.10m	9.65m	1.55m	0.016	
	CA; tr. AS; 0.5% PR; 0% PY, CP	95	IU-1-7	9.65m	10.67m	1.02m	0.11	
9.65-47.55	FLWAI, FLWAF, CLSHZ, ABCB-	95	IU-1-8	10.67m	12.65m	1.98m	0.15	
	BED/CLV/CL, L GR 65° → 80°	85	IU-1-9	12.65m	14.30m	1.65m	0.066	
	8% (5% - 30%) QZ PAR BED.	85	IU-1-10	14.30m	16.10m	1.80m	0.085	
	6% CA; 0.5% AS; 1.5% (0.2% -	95	IU-1-11	16.10m	17.85m	1.75m	0.078	
	5.0%) PR; 0.6% (0% - 3.0%) PY;	99	IU-1-12	17.85m	19.20m	1.35m	0.054	
	0% CP.	95	IU-1-13	19.20m	20.42m	1.22m	0.11	
		90	IU-1-14	20.42m	21.55m	1.13m	0.13	
		90	IU-1-15	21.55m	23.10m	1.55m	0.087	
		95	IU-1-16	23.10m	24.05m	0.95m	0.20	
		90	IU-1-17	24.05m	25.50m	1.45m	0.16	
		90	IU-1-18	25.50m	27.28m	1.78m	0.068	
		95	IU-1-19	27.28m	29.12m	1.84m	0.20	
		95	IU-1-20	29.12m	30.00m	0.88m	0.20	
		95	IU-1-21	30.00m	32.11m	2.11m	0.23	

PROPERTY IDAHO ZONE

Diamond Drill Record



Cochrane Consultants Limited

DIP TEST		
Footage	Angle	
	Reading	Corrected
collar	+47°	

HOLE No. IU-2 Sheet No. 1 of 2 Lot. 600.87 Total Depth 51.00m
 Section 600 N Dep. 515.18 Logged By D. Griffith
 Date Begun Bearing 90° Claim IDAHO
 Date Finished Oct/77 Elev. Collar 966.44 Core Size A.Q.

DEPTH	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	Bondar Au(oz/t)	Loring Au(oz/t)
0.0 - 6.30	WARRA WARR; BED 0° → 75°; CLV/CL/GR 75°; 5% QZ PFR CLV; tr CA; tr AS; 0.3% PR; 0.2% PY; 0% CP "DEAD STUFF IN THE MIDDLE"	IU-2-1	0.00m	1.70m	1.70m	0.021	0.030
		IU-2-2	1.70m	3.50m	1.80m	0.020	0.040
		IU-2-3	3.50m	6.30m	2.80m	0.008	0.080
		IU-2-4	6.30m	7.85m	1.55m	0.088	0.080
		IU-2-5	7.85m	8.90m	1.05m	0.12	0.140
		IU-2-6	8.90m	10.15m	1.25m	0.10	0.140
6.30 - 47.80	CLSHZ, ABCB, FLWAL; BED/ CLV/CL 70°; 8% (3% - 30%) QZ PFR BED 10°; 4% CA; 1.0% AS; 2.0% PR; 1.0% (0.0% - 3.0%) PY; tr (0% tr) CP	IU-2-7	10.15m	12.00m	1.85m	0.10	0.120
		IU-2-8	12.00m	13.50m	1.50m	0.14	0.160
		IU-2-9	13.50m	15.00m	1.50m	0.18	0.170
		IU-2-10	15.00m	17.90m	2.90m	0.072	0.100
		IU-2-11	17.90m	19.55m	1.65m	0.10	0.130
		IU-2-12	19.55m	21.02m	1.47m	0.008	0.050
		IU-2-13	21.02m	22.50m	1.48m	0.14	0.160
		IU-2-14	22.50m	23.68m	1.18m	0.34	0.340
		IU-2-15	23.68m	25.98m	2.30m	0.10	0.080
		IU-2-16	25.98m	27.60m	1.62m	0.17	0.140
		IU-2-17	27.60m	29.05m	1.45m	0.28	0.290
		IU-2-18	29.05m	30.50m	1.45m	0.28	0.240
		IU-2-19	30.50m	32.80m	2.30m	0.090	0.060
		IU-2-20	32.80m	34.55m	1.75m	0.13	0.140
		IU-2-21	34.55m	36.00m	1.45m	0.18	0.120

PROPERTY..... IDAHO ZONE.....

Diamond Drill Record



Cochrane Consultants Limited

DIP TEST		
	Angle	
Footage	Reading	Corrected
collar	+58°	

HOLE No. IU-3 Sheet No. 1 of 2
 Section 600N
 Date Begun
 Date Finished

Lat. 600.87
 Dep. 515.18
 Bearing 90°
 Elev. Collar 966.44

Total Depth 49.80m
 Logged By D. Griffith
 IDAHO
 Claim
 Core Size A-Q.

DEPTH	DESCRIPTION	core rec. %	SAMPLE No	FROM	TO	WIDTH of SAMPLE	Condar Au(oz/t)	Loring Au(oz/t)
00-457	WAPARA, WAPAR; BED/CLV/GR	95	IU-3-1	0.00m	1.50m	1.50m	0.016	
	60" 5% QZ PAR BED 7%	95	IU-3-2	1.50m	3.00m	1.50m	0.058	
	CA; 0.5% PR; 0% PS, PY, CP	90	IU-3-3	3.00m	4.57m	1.57m	0.006	
	"DEAD STUFF IN THE MIDDLE"	99	IU-3-4	4.57m	6.28m	1.71m	0.082	
		90	IU-3-5	6.28m	8.25m	1.97m	0.082	
457-4198	CLSH2, FLWA1, FLWAIF, ABCB;	90	IU-3-6	8.25m	10.10m	1.85m	0.13	
	KCLV/CL 70" BED 10°-75°	85	IU-3-7	10.10m	11.80m	1.70m	0.077	
	8% QZ PAR CLV - 10° 3% CA	70	IU-3-8	11.80m	14.30m	2.50m	0.088	
	0.5% PS; 2.0% PR; 0.6% (0.0% -	95	IU-3-9	14.30m	16.65m	2.35m	0.10	
	4.0% PY; 0% CP	95	IU-3-10	16.65m	17.95m	1.30m	0.027	
		90	IU-3-11	17.95m	19.34m	1.39m	0.021	
		90	IU-3-12	19.34m	21.42m	2.08m	0.051	
		80	IU-3-13	21.42m	23.70m	2.28m	0.20	
		80	IU-3-14	23.70m	25.20m	1.50m	0.13	
		84	IU-3-15	25.20m	26.55m	1.35m	0.026	
		85	IU-3-16	26.55m	28.00m	1.45m	0.056	
		70	IU-3-17	28.00m	29.50m	1.50m	0.14	
		80	IU-3-18	29.50m	31.25m	1.75m	0.097	
		80	IU-3-19	31.25m	32.85m	1.60m	0.054	
		81	IU-3-20	32.85m	34.45m	1.60m	0.10	
		92	IU-3-21	34.45m	35.80m	1.35m	0.043	

PROPERTY..... IDAHO ZONE.....

DIP TEST		
	Angle	
Footage	Reading	Corrected
collar	+34½°	

Diamond Drill Record



Cochrane Consultants Limited

HOLE No. IU-4 Sheet No. 1 of 2 Lot... 600.608
 Section 600 N Dep. 533.759
 Date Begun Bearing 90°
 Date Finished Elev. Collar 969.2m

Total Depth 43.30m
 Logged By D. Griffith
 Claim IDAHO
 Core Size A.Q.

DEPTH	DESCRIPTION	SAMPLE No	FROM	TO	WIDTH of SAMPLE	Sondar Au(oz/t)	Loring Au(oz/t)
0.0 - 2850	CLSH2, FLWAIA, BED 70°	IU-4-1	0.00m	2.95m	2.95m	0.085	
	CLU/CL 70° → 80°; 5% QZ	IU-4-2	2.95m	4.94m	1.99m	0.16	
	PAR CLV; 6% CA; 0.5% AS;	IU-4-3	4.94m	6.30m	1.36m	0.053	
	1.5% PR; 0.5% PY; Tru CP.	IU-4-4	6.30m	7.75m	1.45m	0.033	
		IU-4-5	7.75m	9.90m	2.15m	0.10	
		IU-4-6	9.90m	11.50m	1.60m	0.065	
		IU-4-7	11.50m	13.15m	1.65m	0.11	
		IU-4-8	13.15m	15.20m	2.05m	0.58	
		IU-4-9	15.20m	16.85m	1.65m	0.24	
		IU-4-10	16.85m	18.40m	1.55m	0.027	
		IU-4-11	18.40m	19.90m	1.50m	0.210	
		IU-4-12	19.90m	21.40m	1.50m	0.080	
		IU-4-13	21.40m	22.70m	1.30m	0.050	
		IU-4-14	22.70m	24.20m	1.50m	0.090	
		IU-4-15	24.20m	25.50m	1.30m	0.031	
2850 - 34.32	QZ BX FLWAIA; 35% QZ; 0% CA;	IU-4-16	25.50m	26.80m	1.30m	0.025	
	1.4% AS; 1.5% PR; 4.0% PY; 0% CP	IU-4-17	26.80m	28.00m	1.20m	0.056	
		IU-4-18	28.00m	28.50m	0.50m	0.012	
		IU-4-19	28.50m	30.30m	1.80m	0.11	
		IU-4-20	30.30m	31.80m	1.50m	0.15	
		IU-4-21	31.80m	33.30m	1.50m	0.063	

PROPERTY..... IDAHO ZONE

DIP TEST		
Footage	Angle	
	Reading	Corrected
collar	-36°	

Diamond Drill Record



Cochrane Consultants Limited

HOLE No. IU-6 Sheet No. 1 of 2 Lat. 600,364
 Section 600 N Dep. 544.761
 Date Begun Bearing 270°
 Date Finished Elev. Collar 966.551

Total Depth 40.20m
 Logged By D. Griffith
 Claim IDAHO
 Core Size A.Q.

DEPTH	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	Bondar Au(oz/t)	Loring Au(oz/t)
0.0 - 5.40	FLWA1, CLSH2, CLV/CL 65°	IU-6-1	0.00m	1.60m	1.60m	0.032	
	10% Qz PAR CLV; 3% CA;	IU-6-2	1.60m	3.00m	1.40m	0.14	
	0.5% AS; 1.5% PR; 1.0% PY,	IU-6-3	3.00m	4.40m	1.40m	0.18	
	0% CP	IU-6-4	4.40m	6.70m	2.30m	0.090	
		IU-6-5	6.70m	7.50m	0.80m	0.005	
5.40 - 22.18	WAARA, GRAR; BED/CLV/GR	IU-6-6	7.50m	9.60m	2.10m	<0.002	
	65° → 50°; 2% Qz PAR BED;	IU-6-7	9.60m	12.00m	2.40m	0.002	
	5% CA; 0.1% PR; 0% AS PY CP	IU-6-8	12.00m	13.75m	1.75m	<0.002	
	"DEAD STUFF IN THE MIDDLE"	IU-6-9	13.75m	15.75m	2.00m	<0.002	
		IU-6-10	15.75m	17.40m	1.65m	<0.002	
		IU-6-11	17.40m	19.50m	2.10m	<0.002	
		IU-6-12	19.50m	22.10m	2.60m	<0.002	
22.18 - 40.20	NYWA, FLWA1, LIWA; BED	IU-6-13	22.10m	23.70m	1.60m	0.10	
	90° - 0°; CLV/CL 70°; 8%	IU-6-14	23.70m	25.20m	1.50m	0.095	
	(3% - 30%) Qz PAR CLV ~ 0°;	IU-6-15	25.20m	25.70m	0.50m	0.017	
	3% CA; 0.1% AS; 1.0% PR;	IU-6-16	25.70m	27.20m	1.50m	0.006	
	0.1% PY; trc CP	IU-6-17	27.20m	29.00m	1.80m	0.032	
		IU-6-18	29.00m	31.20m	2.20m	0.009	
		IU-6-19	31.20m	33.60m	2.40m	0.008	
		IU-6-20	33.60m	35.20m	1.60m	0.006	
		IU-6-21	35.20m	36.80m	1.60m	0.007	

PROPERTY..... IDAHO ZONE

DIP TEST		
	Angle	
Footage	Reading	Corrected
collar	-37°	

Diamond Drill Record



Cochrane Consultants Limited

HOLE No. IU-10 .. Sheet No.1 of 2 Lo 600.14
 Section 600 Dep. 568.10
 Date Begun Bearing 270°
 Date Finished Elev. Collar 964.35

Total Depth 57.00m
 Logged By D. Griffith
 Claim IDAHO
 Core Size A.Q.

DEPTH	DESCRIPTION	CORE rec. %	SAMPLE No	FROM	TO	WIDTH of SAMPLE	ondar Au(oz/t)	Loring Au(oz/t)
0.0-0.90	MUCK	99	IU-10-1	0.90m	1.70m	0.80m	0.008	
		99	IU-10-2	1.70m	2.40m	0.70m	0.13	
0.90-7.50	CLSHZ, QZVN, FLWA1; BED/ CLU/L CL 75°; 20% QZ	90	IU-10-3	2.40m	4.20m	1.80m	0.002	
	11 CLV ~ 0°; 3% CA; 0.37	95	IU-10-4	4.20m	5.70m	1.50m	0.27	
	AS; 1.5% (0.27-7.07) PR; 0.4%	99	IU-10-5	5.70m	7.50m	1.80m	0.060	
	(0.07-2.07) PY; 0.17 CP	60	IU-10-6	7.50m	11.10m	3.60m	0.006	
		70	IU-10-7	11.10m	13.05m	1.95m	0.006	
		75	IU-10-8	13.05m	14.60m	1.55m	0.010	
7.50-36.35	GRAR, WARRA. CLV/GR/L CL	95	IU-10-9	14.60m	16.60m	2.00m	0.006	
	75°; 3% QZ 11 CLV ~ 0°	95	IU-10-10	16.60m	19.00m	2.40m	0.030	
	3% (11-20%) CA; tr (0.07-1.07)	50	IU-10-11	19.00m	22.70m	3.70m	0.024	
	AS; 0.27 PR; tr (0-tr) CP; 0%	60	IU-10-12	22.70m	25.20m	2.50m	0.002	
	PY.	90	IU-10-13	25.20m	28.40m	3.20m	<0.002	
	"DEAD STUFF IN THE MIDDLE"	95	IU-10-14	28.40m	31.35m	2.95m	<0.002	
		99	IU-10-15	31.35m	33.88m	2.53m	<0.002	
		95	IU-10-16	33.88m	36.35m	2.97	<0.002	
36.35-46.40	NXWA, FLWA1; BED/CLU/CL	90	IU-10-17	36.35m	39.35m	3.00m	0.037	
	65°-80°; 8% QZ 11 CLV ~	99	IU-10-18	39.35m	42.15m	2.80m	0.010	
	30°; 2% CA; 0.47 AS; 1.07 PR;	99	IU-10-19	42.15m	44.80m	2.65m	0.034	
	tr PY; tr (0-tr) CP	90	IU-10-20	44.80m	46.40m	1.60m	0.012	
		95	IU-10-21	46.40m	48.00m	1.60m	0.002	

PROPERTY IDAHO ZONE

Diamond Drill Record



Cochrane Consultants Limited

DIP TEST		
	Angle	
Footage	Reading	Corrected
collar	-90°	

HOLE No. IU-11 Sheet No. 1 of 2

Lat. 664.87

Total Depth 70.15

Section 666

Dep. 519.05

Logged By D. Griffith

Date Begun

Bearing

Claim IDAHO

Date Finished

Elev. Collar 949.31

Core Size A.Q.

DEPTH	DESCRIPTION	core rec.	% SAMPLE No	FROM	TO	WIDTH of SAMPLE	Bondar Au(oz/t)	Loring Au(oz/t)
0.0 - 0.80	MUCK	95	IU-11-1	0.80m	3.05m	2.25m	0.24	
		99	IU-11-2	3.05m	6.05m	3.00m	0.010	
0.80 - 3.05	FLWAF, CLV/CL 60°, 10% QZ	90	IU-11-3	6.05m	9.30m	3.25m	0.005	
	11 CLV, 3% CA, 0.3% AS, 3.5% PR, 0.5% PY, & CP	90	IU-11-4	9.30m	12.30m	3.00m	0.020	
		95	IU-11-5	12.30m	15.85m	3.55m	0.009	
		95	IU-11-6	15.83m	18.00m	2.15m	0.24	
3.05 - 15.85	XXWAA, WAPAA; BED 70°-0°	99	IU-11-7	18.00m	19.50m	1.50m	0.10	
	CLV/GR 70°, 3% QZ 11 CLV	99	IU-11-8	19.50m	21.00m	1.50m	0.18	
	2 0°, 3% CA, 0.1% PR, 0% AS, PY, CP	99	IU-11-9	21.00m	22.50m	1.50m	0.13	
	"DEAD STUFF IN THE MIDDLE"	99	IU-11-10	22.50m	23.40m	0.90m	0.31	
		99	IU-11-11	23.40m	24.93m	1.53m	0.050	
		99	IU-11-12	24.93m	26.25m	1.32m	0.16	
15.85 - 27.87	FLWAF, ABCB; L CL; 10% (5.0% - 70%) QZ 60° & 20°;	95	IU-11-13	26.25m	27.87m	1.62m	0.13	
	5% CA, 2.0% AS, 6.0% PR, 1.5% PY, 0.02% CP	99	IU-11-14	27.87m	30.90m	3.03m	0.030	
		99	IU-11-15	30.90m	33.85m	2.95m	0.005	
		99	IU-11-16	33.85m	36.70m	2.85m	0.010	
		99	IU-11-17	36.70m	38.78m	2.08m	0.018	
27.87 - 38.78	NXWAF, LIWAF, FLWAF; BED 70°-0°; 5% QZ 60°-10°;	90	IU-11-18	38.78m	42.08m	3.30m	0.020	
	5% CA, & AS, 0.4% PR, & PY, 0% CP	95	IU-11-19	42.08m	44.88m	2.80m	0.011	
		99	IU-11-20	44.88m	47.88m	3.00m	0.021	
		99	IU-11-21	47.88m	51.00m	3.12m	0.002	

PROPERTY IDAHO ZONE

Diamond Drill Record



Cochrane Consultants Limited

DIP TEST		
	Angle	
Footage	Reading	Corrected
collar	+40°	

HOLE No. IU-13 Sheet No. of 1 Lat. 664.87
 Section 666 Dep. 520.23
 Date Begun Bearing 90°
 Date Finished Elev. Collar 952.09

Total Depth 28.80m
 Logged By D. Griffith
 Claim IDAHO
 Core Size A-Q

DEPTH	DESCRIPTION	core rec. %	SAMPLE No	FROM	TO	WIDTH of SAMPLE	Bondar Au(oz/t)	Loring Au(oz/t)
0.0 - 10.55	QZUN, CLSH2, FLWBI, CLV/CL	95	IU-13-1	0.00m	1.90m	1.90m	0.21	
	55° - 80°; 35% QZ 11 CLV;	70	IU-13-2	1.90m	3.90m	2.00m	0.16	
	5% CA; 1.2% AS; 1.0% PR; 0.4%	70	IU-13-3	3.90m	5.80m	1.90m	0.075	
	(0.2% - 3.0%) PY; 0% CP	99	IU-13-4	5.80m	7.35m	1.55m	0.060	
		99	IU-13-5	7.35m	8.70m	1.35m	0.075	
		95	IU-13-6	8.70m	10.55m	1.85m	0.065	
10.55 - 28.80	CLSH1, CLSH1C; CLV/CL 65°;	95	IU-13-7	10.55m	13.55m	3.00m	0.010	
	2% QZ 11 CLV; 3% CA; 4% PR;	90	IU-13-8	13.55m	16.55m	3.00m	0.002	
	0% AS, PY, CP	90	IU-13-9	16.55m	18.40m	1.85	0.003	
		95	IU-13-10	18.40m	21.40m	3.00m	0.003	
		99	IU-13-11	21.40m	23.40m	2.00m	0.005	
		95	IU-13-12	23.40m	26.40m	3.00m	0.006	
		95	IU-13-13	26.40m	28.80m	2.40m	0.003	

PROPERTY IDAHO ZONE

Diamond Drill Record



Cochrane Consultants Limited

DIP TEST		
Footage	Angle	
	Reading	Corrected
collar	0°	

HOLE No. IU-14 Sheet No. 1 of 1 Lat. 664.86
 Section 666 Dep. 520.79
 Date Begun Bearing 90°
 Date Finished Elev. Collar 950.50

Total Depth 37.80m
 Logged By D. Griffith
 Claim IDAHO
 Core Size A.Q.

DEPTH	DESCRIPTION	core rec. %	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	Bondar Au(oz/t)	Loring Au(oz/t)
0.00 - 20.46	FLWA1, CLSH2, WARRAL, CLV/CL	90	IU-14-1	0.00m	1.50m	1.50m	0.31	
	25° - 60°; 15% QZ 11 CLV	90	IU-14-2	1.50m	3.00m	1.50m	0.15	
	~60°; 4% CA; 0.6% AS; 3.5%	99	IU-14-3	3.00m	4.60m	1.60m	0.16	
	PR; fr CP; 1.0% PY	95	IU-14-4	4.60m	6.50m	1.90m	0.084	
		99	IU-14-5	6.50m	8.12m	1.62m	0.33	
		90	IU-14-6	8.12m	9.75m	1.63m	0.18	
		95	IU-14-7	9.75m	11.17m	1.42m	0.46	
		90	IU-14-8	11.17m	12.70m	1.53m	0.17	
		99	IU-14-9	12.70m	13.87	1.17m	0.19	
		95	IU-14-10	13.87m	15.55m	1.68m	0.097	
		95	IU-14-11	15.55m	17.07m	1.52m	0.15	
		95	IU-14-12	17.07m	18.95m	1.88m	0.15	
		99	IU-14-13	18.95m	20.46m	1.51m	0.39	
20.46 - 31.50	CLSH2S WARR; BED 30° - 60°;	95	IU-14-14	20.46m	23.85m	3.39m	0.011	
	CLV/CL 35°; 4% QZ 11 CLV;	70	IU-14-15	23.85m	27.60m	3.75m	0.003	
	3% CA; fr AS; 0.4% PR; 0% CP, PY	70	IU-14-16	27.60m	31.50m	3.90m	0.004	
		90	IU-14-17	31.50m	34.70m	3.20m	0.20	
31.50 - 37.80	CLSH2, FLWA1, ABLB, BDMR; BED/	90	IU-14-18	34.70m	36.59m	1.39m	0.020	
	CLV/CL 35° - 60°; 15% QZ	30	IU-14-19	36.59m	37.80m	1.21m	0.19	
	11 BED; 15% CA; 0.6% AS; 1.2%							
	PR; 0.3% PY; 0% CP							

PROPERTY IDAHO ZONE

Diamond Drill Record



Cochrane Consultants Limited

DIP TEST		
Footage	Angle	
	Reading	Corrected
collar	-30°	

HOLE No. IU-16 Sheet No. 1 of 1 Lot. 700.48
 Section 700 Dep. 533.64
 Date Begun Bearing 270°
 Date Finished Elev. Collar 940.06

Total Depth 41.77m
 Logged By D. Griffith
 Claim IDAHO
 Core Size A.Q.

DEPTH	DESCRIPTION	core rec. %	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	Bondar Au(oz/t)	oring Au(oz/t)
0.0 - 2.13	MUCK	90	IU-16-1	2.13m	3.60m	1.47m	0.20	
		99	IU-16-2	3.60m	4.88m	1.28m	0.20	
2.13 - 12.04	ABCB, FLWA1, FLWA1A, CLV/CL	80	IU-16-3	4.88m	6.22m	1.34	0.26	
	55°; 20% QZ II CLV ~ 20°	99	IU-16-4	6.22m	7.62m	1.40m	0.096	
	5% CA; 10% AS; 20% PR; 10% PY	99	IU-16-5	7.62m	9.00m	1.38m	0.11	
	tr. CP.	90	IU-16-6	9.00m	10.77m	1.77m	0.093	
		85	IU-16-7	10.77m	12.04m	1.27m	0.066	
12.04 - 15.74	GRAR, FLWA1K; BED/CLV/GR	90	IU-16-8	12.04m	15.24m	3.20m	0.008	
	90°; 6% QZ II BED; 30% CA;	99	IU-16-9	15.24m	15.74m	0.50m	0.034	
	tr. (0-tr) AS; 0% PR; 0% PY CP.	99	IU-16-10	15.74m	16.77m	1.03m	0.62	
	"DEAD STUFF IN THE MIDDLE"	95	IU-16-11	16.77m	18.87m	2.10m	0.094	
		90	IU-16-12	18.87m	20.42m	1.55m	0.25	
15.74 - 34.56	FLWA1, CLWA2, QZ BX; L CLV/L CL	95	IU-16-13	20.42	22.27	1.85m	0.44	
	70°; 15% QZ II CLV ~ 10°; 4%	99	IU-16-14	22.27m	24.32m	2.05m	0.25	
	CA; 15% AS; 1.8% PR; 40% PY;	99	IU-16-15	24.32m	26.51m	2.19m	0.15	
	0% CP.	95	IU-16-16	26.51m	29.12m	2.61m	0.12	
		99	IU-16-17	29.12m	31.07m	1.95m	0.20	
		90	IU-16-18	31.07m	34.56m	3.49m	0.026	
34.56 - 41.77	NXWA; CLV/CL 60° → 75° 2%	99	IU-16-19	34.56m	37.36m	2.80m	0.004	
	QZ II CLV; 3% CA; 0.2% PR;	95	IU-16-20	37.36m	40.24m	2.88m	0.021	
	0% PY, CP.	90	IU-16-21	40.24m	41.77m	1.53m	0.015	

PROPERTY IDAHO ZONE

Diamond Drill Record



Cochrane Consultants Limited

DIP TEST		
	Angle	
Footage	Reading	Corrected
collar	-64°	

HOLE No. IU-17 Sheet No. 1 of 1 Lat. 700.61
 Section 700 Dep. 536.14
 Date Begun Bearing 270°
 Date Finished Elev. Collar 939.77

Total Depth 45.12m
 Logged By D. Griffith
 Claim IDAHO
 Core Size A-Q

DEPTH	DESCRIPTION	core rec. %	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	Bondar u(oz/t)	Loring Au(oz/t)
20-0.91	MUCK	80	IU-17-1	0.91m	4.01m	3.10m	0.16	
		85	IU-17-2	4.01m	5.38m	1.37m	0.068	
0.91-10.98	FLWA1, BDAR, BED / CLV / CL 65°; 18% QZ II BED; 3% CA; 0.7% AS; 1.0% PR; 1.5% PY, tr CP.	90	IU-17-3	5.38m	6.19m	0.81m	0.19	
		95	IU-17-4	6.19m	7.62m	1.43m	0.041	
		90	IU-17-5	7.62m	8.99m	1.37m	0.26	
		85	IU-17-6	8.99m	10.98m	1.99m	0.062	
10.98-25.55	GRPR, WYARA. BED / CLV / L GA 50°-65°; 3% QZ II BED; 3% CA; 0.2% PR; 0% AS, PY, CP "DEAD" STUFF IN THE MIDDLE	85	IU-17-7	10.98m	14.63m	3.65m	0.017	
		80	IU-17-8	14.63m	18.60m	3.97m	0.003	
		65	IU-17-9	18.60m	22.56m	3.96m	0.002	
		90	IU-17-10	22.56m	25.55m	2.99m	0.003	
25.55-45.12	NXWA, CLSHZ, ABCB, FLWA1, CLV / CL 50°-70°; 10% QZ II CLV; 5% CA; 1.0% AS; 3.0% PR; tr (0% - 2.0%) PY; 0.01% CP	95	IU-17-11	25.55	27.13m	1.58m	0.15	
		85	IU-17-12	27.13	29.73	2.60m	0.21	
		90	IU-17-13	29.73m	31.65m	1.92m	0.19	
		99	IU-17-14	31.65m	33.11m	1.46m	0.14	
		95	IU-17-15	33.11m	35.67m	2.56m	0.050	
		90	IU-17-16	35.67m	37.50m	1.83m	0.15	
		95	IU-17-17	37.50m	39.33m	1.83m	0.12	
		99	IU-17-18	39.33m	41.23m	1.90m	0.17	
		95	IU-17-19	41.23m	42.99m	1.76m	0.052	
		90	IU-17-20	42.99m	45.12m	2.13m	0.002	

PROPERTY IDAHO ZONE

Diamond Drill Record



Cochrane Consultants Limited

DIP TEST		
Footage	Angle	
	Reading	Corrected
collar	-90°	

HOLE No. IU-19 Sheet No. of 2 Lat. 699.66 Total Depth 47.44m
 Section 700 Dep. 534.86 Logged By D. Griffith
 Date Begun Bearing -- Claim IDAHO
 Date Finished Elev. Collar 939.77 Core Size A.Q.

DEPTH	DESCRIPTION	core rec. %	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	Bondar Au(oz/t)	Loring Au(oz/t)
0.0-0.50	MUCK	80	IU-19-1	0.50m	2.31m	1.81m	0.23	
		99	IU-19-2	2.31m	3.66m	1.35m	0.13	
0.50-12.25	FLWA1 CLSH2, WARR, CLV/CL 50°	99	IU-19-3	3.66m	4.92m	1.26m	0.11	
	35°; 75% QZ II CLV; 5% CA;	99	IU-19-4	4.92m	5.60m	0.68m	0.17	
	0.7% AS; 1.0% PR; 15% PY, 0% CP	90	IU-19-5	5.60m	7.61m	2.01m	0.027	
		90	IU-19-6	7.61m	9.45m	1.84m	0.010	
		95	IU-19-7	9.45m	11.03m	1.58m	0.095	
		85	IU-19-8	11.03m	12.25m	1.22m	0.067	
12.25-22.65	GRAR, WARRA, CLV/GR 25° → 60°	70	IU-19-9	12.25m	15.55m	3.30m	0.031	
	2% QZ II CLV; 3% CA; 0.1% PR;	80	IU-19-10	15.55m	19.51m	3.96m	0.004	
	0% AS, CP, PY	95	IU-19-11	19.51m	22.65m	3.14m	0.003	
	"DEAD STUFF IN THE MIDDLE"	90	IU-19-12	22.65m	23.89m	1.24m	0.005	
22.65-50.30	NXWA, NXAR, FLWAIF, FLWA1,	99	IU-19-13	23.89m	25.61m	1.72m	0.045	
	BFD/CLV/CL 60° to 34.15°;	95	IU-19-14	25.61m	27.44m	1.83m	0.015	
	6% (2% - 30%) QZ II CLV ~10°;	85	IU-19-15	27.44m	29.20m	1.76m	0.22	
	5% CA, 0.3% (0% - 25%) AS;	95	IU-19-16	29.20m	30.95m	1.65m	0.010	
	1.0% PR, 4% (0% - 0.3%) PY; 0.1%	90	IU-19-17	30.85m	34.15m	3.30m	0.035	
	(0% - 0.5%) CP.	95	IU-19-18	34.15m	36.36m	2.21m	0.003	
		70	IU-19-19	36.36m	37.95m	1.59m	0.003	
		95	IU-19-20	37.95m	41.35m	3.40m	0.003	
		99	IU-19-21	41.35m	42.78m	1.43m	0.050	

PROPERTY IDAHO ZONE

Diamond Drill Record



Cochrane Consultants Limited

DIP TEST		
		Angle
Footage	Reading	Corrected
collar	+20°	

HOLE No. IU-21 Sheet No. 1 of 2 Lat. 629.69
 Section 630 Dep. 505.98
 Date Begun Bearing 90°
 Date Finished Elev. Collar 958.45

Total Depth 42.60m
 Logged By D. Griffith
 Claim IDAHO
 Core Size A-Q

DEPTH	DESCRIPTION	core rec. %	SAMPLE No	FROM	TO	WIDTH of SAMPLE	Bondar Au(oz/t)	Loring Au(oz/t)
0.0 - 11.50	CHERN, LIWAH, NXWAF, CLV/CL	85	IU-21-1	0.00m	3.10m	3.10m	0.090	
	45° → 60° 7% QZ 11 CLV; 1%	90	IU-21-2	3.10m	6.05m	2.95m	0.010	
	CA; 0.3% AS; 1.0% PR; fr. (0-0.2)	95	IU-21-3	6.05m	8.70m	2.65m	0.002	
	PY; fr. (0 - fr.) CP.	95	IU-21-4	8.70m	11.50m	2.80m	0.018	
11.50 - 42.60	FLWAF, FLWAH, CLSHZ, CLV/	99	IU-21-5	11.50m	12.73m	1.23m	0.11	
	CL 70°; 10% QZ 11 CLV; 1%	99	IU-21-6	12.73m	16.00m	3.27m	0.055	
	CA; 0.7% AS; 1.5% PR; 0.7% PY;	99	IU-21-7	16.00m	17.50m	1.50m	0.075	
	0.1% (0-0.9%) CP.	90	IU-21-8	17.50m	19.00m	1.50m	0.030	
		99	IU-21-9	19.00m	20.45m	1.45m	0.12	
		95	IU-21-10	20.45m	21.90m	1.45m	0.090	
		70	IU-21-11	21.70m	23.70m	1.80m	0.10	
		95	IU-21-12	23.70m	25.20m	1.50m	0.17	
		95	IU-21-13	25.20m	26.70m	1.50m	0.091	
		90	IU-21-14	26.70m	28.20m	1.50m	0.14	
		95	IU-21-15	28.20m	29.70m	1.50m	0.25	
		95	IU-21-16	29.70m	31.20m	1.50m	0.045	
		70	IU-21-17	31.20m	33.10m	1.90m	0.24	
		95	IU-21-18	33.10m	35.66m	2.56m	0.11	
		99	IU-21-19	35.66m	38.48m	2.82m	0.015	
		99	IU-21-20	38.48m	40.15m	1.67m	0.14	
		70	IU-21-21	40.15m	41.70m	1.55m	0.020	

PROPERTY IDHAO ZONE

Diamond Drill Record



Cochrane Consultants Limited

DIP TEST		
		Angle
Footage	Reading	Corrected
collar	-90	

HOLE No. IU-23 Sheet No. 1 of 2 Lat. 696.97
 Section 700 Dep. 564.67
 Date Begun Bearing --
 Date Finished Elev. Collar 932.54

Total Depth. 73.50m
 Logged By D. Griffith
 Claim IDAHO
 Core Size A.Q.

DEPTH	DESCRIPTION	core rec. %	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	Bondar Au(oz/t)	Loring Au(oz/t)
0.0 - 0.60	MUCK	90	IU-23-1	0.60m	3.40m	2.80m	0.002	
		99	IU-23-2	3.40m	6.10m	2.70m	0.003	
0.60 - 44.35	WAFR, WAFRA, GRAR; BED 0°	99	IU-23-3	6.10m	8.75m	2.65m	0.005	
	WAR → 55°; CLV / GR / L CL	99	IU-23-4	8.75m	12.10m	3.35m	0.009	
	40° → 55°; 8% (3% - 30%) QZ	99	IU-23-5	12.10m	14.20m	2.10m	0.043	
	11 CLV - 20°; 5% CA; frc	65	IU-23-6	14.20m	17.50m	3.30m	0.022	
	(0 - 0.2) AS; 0.3% PR; frc	70	IU-23-7	17.50m	20.75m	3.25m	0.005	
	(0 - 0.2) PY; 0% CP	95	IU-23-8	20.75m	22.45m	1.70m	0.003	
	"DEAD STUFF IN THE MIDDLE?"	90	IU-23-9	22.45m	25.60m	3.15m	0.003	
		60	IU-23-10	25.60m	27.80m	2.20m	0.002	
		95	IU-23-11	27.80m	29.60m	1.80m	0.008	
		90	IU-23-12	29.60m	32.80m	3.20m	0.005	
		95	IU-23-13	32.80m	35.70m	2.90m	0.002	
		95	IU-23-14	35.70m	37.65m	1.95m	0.008	
		80	IU-23-15	37.65m	40.90m	3.25m	0.005	
		85	IU-23-16	40.90m	44.35m	3.45m	0.003	
44.35 - 73.50	NXWAF, NOWA LIWA; BED / CLV	95	IU-23-17	44.35m	46.10m	1.75	0.002	
	45°; 3% (1% - 85%) QZ 11 CLV	70	IU-23-18	46.10m	48.20m	2.10m	0.002	
	2/10°; 3% CA; 0.1% PR; frc	50	IU-23-19	48.20m	51.45m	3.25m	0.005	
	(0 - 0.2) AS; frc (0 - 0.2) PY; 0% CP	85	IU-23-20	51.45m	54.65m	3.20m	0.010	
		99	IU-23-21	54.65m	57.30m	2.65m	0.003	

PROPERTY Lodner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.



Cochrane Consultants Limited

DIP TEST		
Depth	Angle	
Metres	Reading	Corrected
collar	-25 $\frac{1}{2}$ °	

HOLE No. IU-24 Sheet No. 1 of 1 Lot. 696,753
 Section 700 Dep. 562,688
 Date Begun Bearing 270°
 Date Finished Elev. Collar 932,659m

Total Depth 23.90m
 Logged By D. Griffith
 Claim IDAHO
 Core Size A-Q

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz./ton	'LORING' Au oz./ton
0.0 - 0.90	MUCK	85	IU-24-1	0.90m	2.90m	2.00m	0.005	
		90	IU-24-2	2.90m	6.10m	3.20m	0.003	
0.90 - 2.90	MBSL; BED/CLV/GR 60° 15'	90	IU-24-3	6.10m	9.55m	3.45m	0.005	
	QZ II BED; 3% CA; 0.3% PR; 0% AS, PY, CP	90	IU-24-4	9.55m	13.00m	3.45m	0.006	
		85	IU-24-5	13.00m	15.40m	2.40m	0.005	
2.90 - 15.40	NDAR, NAPP, ND-AR. BED 45° - 0°;	90	IU-24-6	15.40m	17.30m	1.90m	0.15	
	5° QZ 60°; 5% CA; 0.3% PR;	50	IU-24-7	17.30m	22.80m	5.50m	0.005	
	0% AS, PY, CP	95	IU-24-8	22.80m	23.90m	1.10m	0.015	
15.40 - 17.30	FLWA1. CLV/CL 63°; 20% QZ II							
	CLV; 10% CA; 3.0% AS; 3.5% PR;							
	0% PY, CP.							
17.30 - 23.90	GRAN, LIWAP BDARA. BED							
	60°-00°. CLV/GR/CL 60°							
	11% QZ II CLV; 4% CA; 0.2%							
	PR, 0% AS, PY, CP							
	"DEAD STUFF IN THE MIDDLE"							

PROPERTY Ledner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.



Cochran Consultants Limited

DIP TEST		
Depth Metres	Angle	
	Reading	Corrected
collar	0°	

HOLE No. IU-26 Sheet No. 1 of 1 Lat. 702.38
 Section 700 Dep. 563.30
 Date Begun..... Bearing 90°
 Date Finished..... Elev. Collar 935.06

Total Depth 47.80m
 Logged By D. Griffith
 Claim IDAHO
 Core Size A.Q.

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz/ton	'LORING' Au oz/ton
00 - 29.00	MBSL, WMPA, BDPAA, BED / CLV /	85	IU-26-1	0.00m	3.20m	3.20m	0.002	
	CL 40° → 50°; 4% QZ BED	90	IU-26-2	3.20m	6.25m	3.05m	0.002	
	~ 10°; 2% CA; 0.1% PR; 0%	85	IU-26-3	6.25m	9.40m	3.15m	0.002	
	AS, PY, CP.	70	IU-26-4	9.40m	12.25m	2.85m	0.002	
		99	IU-26-5	12.25m	14.90m	2.65m	0.002	
29.00-37.75		95	IU-26-6	14.90m	17.70m	2.80m	<0.002	
		70	IU-26-7	17.70m	21.00m	3.30m	0.002	
		90	IU-26-8	21.00m	23.90m	2.90m	0.002	
		90	IU-26-9	23.90m	26.70m	2.80m	0.002	
		85	IU-26-10	26.70m	29.00m	2.30m	0.005	
29.00-37.75	FLWAIA, QZBX, BXWA; BED 0°	90	IU-26-11	29.00m	31.00m	2.00m	0.036	
	- 50°; CLV / CL 50° - 60°	90	IU-26-12	31.00m	32.20m	1.20	0.022	
	25% QZ CLV ~ 0°; 2% CA;	80	IU-26-13	32.20m	33.80m	1.60m	0.021	
	2.0% AS; 0.3% PR; 0.1% PY; 0.1% CP	99	IU-26-14	33.80m	34.95m	1.15m	0.048	
		99	IU-26-15	34.95m	36.55m	1.60m	0.031	
37.75-47.80	LWA, MAAR. 1% QZ 60° ~	95	IU-26-16	36.55m	37.75m	1.20m	0.048	
	10°; 0% CA; 0% AS, PR, PY, CP	95	IU-26-17	37.75m	39.80m	2.05m	0.005	
		95	IU-26-18	39.80m	41.75m	1.95m	0.002	
		95	IU-26-19	41.75m	44.80m	3.05m	0.003	
		90	IU-26-20	44.80m	47.80m	3.00m	0.002	

PROPERTY Lodner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.



Cochrane Consultants Limited

DIP TEST		
Depth Metres	Angle	
	Reading	Corrected
collar	-1°	

HOLE No. IU-27 Sheet No. 1 of 2 Lat. 700.72
 Section 700 Dep. 534.02
 Date Begun Bearing 270°
 Date Finished Elev. Collar 941.62

Total Depth 57.60m
 Logged By D. Griffith
 Claim IDAHO
 Core Size A Q

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz/ton	'LORING' Au oz/ton
0.00 - 28.40	FLWAF, FLWAI, CHER(?) CLSHZ;	80	IU-27-1	0.00m	1.50m	1.50m	0.018	
	CLV/CL 35° → 60°; 20% QZ	90	IU-27-2	1.50m	2.85m	1.35m	0.023	
	CLV - 0°; 2% CA; 20% AS;	70	IU-27-3	2.85m	5.10m	2.25m	0.050	
	1.7% PR; 1.2% PY; 7(0-0.1?)OP	95	IU-27-4	5.10m	7.30m	2.20m	0.10	
		80	IU-27-5	7.30m	8.00m	0.70m		
		99	IU-27-6	8.00m	9.75m	1.75m		
		90	IU-27-7	9.75m	11.35m	1.60m		
		99	IU-27-8	11.35m	12.75m	1.40m		
		99	IU-27-9	12.75m	14.10m	1.35m		
		99	IU-27-10	14.10m	15.45m	1.35m		
		80	IU-27-11	15.45m	17.05m	1.60m		
		85	IU-27-12	17.05m	18.60m	1.55m		
		95	IU-27-13	18.60m	20.10m	1.50m		
		95	IU-27-14	20.10m	22.50m	2.40m		
		95	IU-27-15	22.50m	24.00m	1.50m		
		95	IU-27-16	24.00m	26.47m	2.47m		
		95	IU-27-17	26.47m	28.40m	1.93m		
28.40 - 57.60	LIWAC, NXWAF, LIWACH, FLWMPFL	95	IU-27-18	28.40m	31.40m	3.00m		
	BFD 0° - 60°; CLV / GR / CL	95	IU-27-19	31.40m	34.10m	2.70m		
	30° - 60°; 3% QZ (0.7-30%);	90	IU-27-20	34.10m	37.10m	3.00m		
	1% CA; 0.17 AS; 0.3% (0.1-1.5%) PR							

PROPERTY... Lodner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.



Cochrane Consultants Limited

DIP TEST		
Depth	Angle	
Metres	Reading	Corrected
	0°	

HOLE No. IU-28 Sheet No. 1 of 2 Lat. 598.910
 Section 600 Dep. 509.74
 Date Begun Bearing 90°
 Date Finished Elev. Collar 966.805

Total Depth 57.60m
 Logged By D. Griffith
 Claim IDAHO
 Core Size A.Q.

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz./ton	'LORING' Au oz./ton
0.0-2.50	FLWA, FLWAK, LIWAF, NKWA, BED	90	IU-28-1	0.00m	2.85m	2.85m	0.019	
	0° → 60° CLV/CL 35° → 60°, 8%	80	IU-28-2	2.85m	5.75m	2.90m	0.033	
	(4% - 35%) QZ CLV ~ 10°	95	IU-28-3	5.75m	8.55m	2.80m	0.016	
	3% CA; 0.1% AS; 0.5% PR;	80	IU-28-4	8.55m	10.00m	1.45m	0.043	
	tr (0 - 0.05%) CP; 0.5% (0% -	95	IU-28-5	10.00m	11.45m	1.45m	0.16	
	5.0%) PY	90	IU-28-6	11.45m	14.75m	3.30m	0.025	
		85	IU-28-7	14.75m	16.45m	1.70m	0.060	
		99	IU-28-8	16.45m	19.35m	2.90m	0.017	
		95	IU-28-9	19.35m	21.50m	2.15m	0.023	
21.50-32.05	MADR, FLWMA, BDAR; BED / CLV /	70	IU-28-10	21.50m	23.45m	1.95m	0.094	
	CL / GR 40° - 90°, 6% QZ	90	IU-28-11	23.45m	25.20m	1.75m	0.065	
	BED; 2% CA; 0.1% AS; 0.8% PR;	85	IU-28-12	25.20m	28.40m	3.20m	0.006	
	0.5% (0% - 3.5%) PY; 0% CP	95	IU-28-13	28.40m	32.05m	3.65m	0.055	
32.05-54.70	FLWAI, QZUN; BED 10° - 50°;	90	IU-28-14	32.05m	33.80m	1.75m	0.030	
	CLV / CL 25° - 50°; 25% (5% -	90	IU-28-15	33.80m	35.35m	1.55m	0.074	
	95%) QZ CLV(?); 2% CA;	90	IU-28-16	35.35m	37.20m	1.85m	0.068	
	0.3% AS; 0.5% PR; 0.3% PY, 0% CP	99	IU-28-17	37.20m	39.40m	2.20m	0.039	
		99	IU-28-18	39.40m	40.95m	1.55m	0.060	
		80	IU-28-19	40.95m	44.50m	3.55m	0.059	
		85	IU-28-20	44.50m	47.70m	3.20m	0.028	



PROPERTY: Ladner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.

Cochrane Consultants Limited

DIP TEST		
Depth	Angle	
Metres	Reading	Corrected
	0°	

HOLE No. IU-29 Sheet No. 1 of 2 Lat. 732.966
 Section 733 Dep. 536.824
 Date Begun Bearing 270°
 Date Finished Elev. Collar 928.317

Total Depth 69.50m
 Logged By D. Griffith
 Claim IDAHO
 Core Size A.Q.

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz/ton	'LORING' Au oz/ton
0.00 - 14.75	FLWAF, NAR, BDR, CHARN; BED	65	IU-29-1	0.00m	2.40m	2.40m	0.046	
	0°-90°; L CLV/L CL 20°-50°;	85	IU-29-2	2.40m	4.95m	2.55m	0.012	
	87 QZ II BED; 37 CA. for AS;	95	IU-29-3	4.95m	6.55m	1.60m	0.030	
	1.07 PR; for (0-0.77) CP;	95	IU-29-4	6.55m	8.70m	2.15m	0.014	
	for (0-0.57) PY.	95	IU-29-5	8.70m	9.70m	1.00m	0.080	.090
		80	IU-29-6	9.70m	13.10m	3.40m	0.011	.030
		90	IU-29-7	13.10m	14.75m	1.65m	0.029	.040
14.75 - 26.75	NDWAF, FLWAF, CLSHZ; CLV/CL	85	IU-29-8	14.75m	16.70m	1.95m	0.45	.560
	45°-60°; 1.27 QZ II CLV;	90	IU-29-9	16.70m	18.75m	2.05m	0.21	.230
	27 CA; 0.67 AS; 1.57 PR;	80	IU-29-10	18.75m	20.30m	1.55m	0.045	.040
	for CP; 07 PY	95	IU-29-11	20.30m	21.60m	1.30m	0.29	.380
		65	IU-29-12	21.60m	23.75m	2.15m	0.16	.160
		80	IU-29-13	23.75m	25.25m	1.50m	0.12	.110
		90	IU-29-14	25.25m	26.75m	1.50m	0.060	.080
26.75 - 37.30	NDWAF, FLWAF; CLV/CL 40°-	95	IU-29-15	26.75m	29.40m	2.65m	0.014	.030
	60°; 57 QZ II CLV. for CA; for	99	IU-29-16	29.40m	31.90m	2.50m	0.004	
	AS; 0.27 PR; 09 CP, PY.	99	IU-29-17	31.90m	34.50m	2.60m	0.083	
		85	IU-29-18	34.50m	37.30m	2.80m	0.007	
37.30 - 69.50	L1WA, WDR, BDR, FLWAF, CHILL;	99	IU-29-19	37.30m	39.55m	2.25m	< 0.002	
	BED VAR; CLV/CL/LGR	99	IU-29-20	39.55m	42.20m	2.65m	0.021	
	50°-60°; 107 QZ II CLV;	99	IU-29-21	42.20m	44.85m	2.65m	0.047	



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PROPERTY Ladner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.

DIP TEST		
Depth	Angle	
Metres	Reading	Corrected
	+56°	

HOLE No. IU-30 Sheet No. 1 of 1 Lat. 733.17
 Section Dep. 539.68
 Date Begun Bearing 90°
 Date Finished Elev. Collar 929.87

Total Depth 45.40m
 Logged By D. Griffith
 Claim IDAHO
 Core Size A.Q.

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz/ton	'LORING' Au oz/ton
0.0 - 13.00	WARRA, WARR, MISSLF. BED VAR; CLV/CL/L GR 70°-50°; 10% QZ II CLV. 2% CA. 0.1% PR; trc (0-trc) PY; 0% CP.	70	IU-30-1	0.00m	2.10m	2.10m	0.007	
		65	IU-30-2	2.10m	5.10m	3.00m	0.012	
		70	IU-30-3	5.10m	7.75m	2.65m	0.002	
		75	IU-30-4	7.75m	10.80m	3.05m	0.002	
		75	IU-30-5	10.80m	13.00m	2.20m	< 0.002	
13.00 - 24.50	WARR, FLWAI, BISHK(?) CHERN. BED/ CLV/L CL 60°-80°. 8% (3%-30%) QZ II CLV; 3% CA; trc (0-0.2%) AS: 0.2% PR; trc (0-trc) CP; 0.1% (0-0.4%) PY.	75	IU-30-6	13.00m	14.85m	1.85m	0.017	
		85	IU-30-7	14.85m	17.25m	2.40m	0.006	
		80	IU-30-8	17.25m	20.30m	3.05m	0.006	
		80	IU-30-9	20.30m	23.10m	2.80m	0.014	
		95	IU-30-10	23.10m	24.50m	1.40m	0.004	
24.50 - 45.00	WARR, LIWAN. BED 75°. 1% QZ 70°; trc CA; 0% AS, PR, CP, PY.	80	IU-30-11	24.50m	27.40m	2.90m	< 0.002	
		85	IU-30-12	27.40m	31.00m	3.60m	< 0.002	
		85	IU-30-13	31.00m	34.50m	3.50m	< 0.002	
		90	IU-30-14	34.50m	37.80m	3.30m	< 0.002	
		65	IU-30-15	37.80m	41.80m	4.00m	< 0.002	
		90	IU-30-16	41.80m	45.00m	3.20m	0.002	
45.00 - 45.40	WARR, FLWAI. CLV/CL 70°; 30% QZ II CLV. 3% CA. 0.5% AS; 1.0% PR; 0% CP, PY	95	IU-30-17	45.00m	45.40m	0.40m	0.024	



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PROPERTY... Ladner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.

DIP TEST		
Depth	Angle	
Metres	Reading	Corrected
	+10°	

HOLE No. IU-31 Sheet No. 1 of 2 Lat. 733.13
 Section Dep. 540.27
 Date Begun Bearing 90°
 Date Finished Elev. Collar 929.42

Total Depth 65.30m
 Logged By D. Griffith
 Claim IDAHO
 Core Size A-Q

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz/ton	'LORING' Au oz/ton
0.0-19.25	LIWAA, WARRA, WARR, BARRA; BED 0°	90	IU-31-1	0.00m	1.80m	1.80m	0.008	
	- 90° CLV / CL / GR 45°; 10% QZ	70	IU-31-2	1.80m	5.55m	3.75m	0.011	
	11 CLV @ 0°; 3% CA; fr (0-10)	70	IU-31-3	5.55m	8.75m	3.20m	0.003	
	PS; 0.2% PR; fr (0-0.3%) PY; 0% CP	95	IU-31-4	8.75m	11.60m	2.85m	0.002	
		80	IU-31-5	11.60m	14.40m	2.80m	< 0.002	
		85	IU-31-6	14.40m	16.70m	2.30m	0.002	
19.25-26.10	BARR, MARR; BED 0°-90° CLV / CL /	99	IU-31-7	16.70m	19.25m	2.55m	0.002	
	GR 55°; 4% (1% - 30%) QZ 11 CLV	95	IU-31-8	19.25m	22.00m	2.75m	< 0.002	
	fr (0-0.3%) PS; 0% PR; 0% CP, PY;	95	IU-31-9	22.00m	25.10m	3.10m	0.002	
	0.2% CA	95	IU-31-10	25.10m	26.10m	1.00m	0.015	
26.10-58.20	MARR, LIWAF, LIWAW; BED /	99	IU-31-11	26.10m	29.50m	3.40m	0.002	
	L CLV / L CL 45°; 1% QZ	99	IU-31-12	29.50m	32.60m	3.10m	0.002	
	11 CLV; 2% CA; fr (0-10) PR;	99	IU-31-13	32.60m	35.30m	2.70m	0.002	
	0% PS, CP, PY	95	IU-31-14	35.30m	37.85m	2.55m	0.002	
		90	IU-31-15	37.85m	40.55m	2.70m	0.002	
		95	IU-31-16	40.55m	43.35m	2.80m	0.002	
		99	IU-31-17	43.35m	47.10m	3.75m	0.002	
		95	IU-31-18	47.10m	50.10m	3.00m	0.004	
		85	IU-31-19	50.10m	53.05m	2.95m	0.004	
		95	IU-31-20	53.05m	55.50m	2.45m	0.002	



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PROPERTY... Lodner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.

DIP TEST		
Depth	Angle	
Metres	Reading	Corrected
	-45°	

HOLE No. IU-32 Sheet No. 1 of 2 Lat. 739.79
 Section 733 Dep. 537.29
 Date Begun Bearing 270°
 Date Finished Elev. Collar 927.27

Total Depth 50.90m
 Logged By D. Griffith
 Claim IDAHO
 Core Size A.Q.

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz/ton	'LORING' Au oz/ton
0.00 - 1.50	MUCK	90	IU-32-1	1.50m	4.75m	3.25m	0.013	
		95	IU-32-2	4.75m	7.45m	2.70m	0.040	
1.50 - 12.80	NXWA, FLWAF; CLV/CL 60°; 4%	75	IU-32-3	7.45m	9.90m	2.45m	0.098	
	QZ II CLV; 2% CA; Trc AS; 0% PR; Trc (0-Trc) CP; 0.2% PY.	80	IU-32-4	9.90m	11.65m	1.75m	0.073	
		90	IU-32-5	11.65m	12.80m	1.15m	0.058	
12.80 - 39.60	CLSH2, FLWAF, QZ BX, NXWAF; CLV/CL 60°-70°; 15% QZ II CLV e	85	IU-32-6	12.80m	14.45m	1.65m	0.090	
	?; 3% CA; 10% AS; 2% PR; 2% (Trc - 8.0%) PY; 0% CP	90	IU-32-7	14.45m	15.95m	1.50m	0.38	
		90	IU-32-8	15.95m	17.95m	2.00m	0.23	
		90	IU-32-9	17.95m	19.00m	1.05m	0.032	
		99	IU-32-10	19.00m	20.65m	1.65m	0.12	
		99	IU-32-11	20.65m	22.40m	1.75m	0.13	
		99	IU-32-12	22.40m	24.05m	1.65m	0.17	
		99	IU-32-13	24.05m	27.00m	2.95m	0.045	
		99	IU-32-14	27.00m	29.05m	2.05m	0.026	
		95	IU-32-15	29.05m	30.45m	1.40m	0.28	
		99	IU-32-16	30.45m	31.75m	1.30m	0.13	
		95	IU-32-17	31.75m	33.15m	1.40m	0.23	
		99	IU-32-18	33.15m	34.45m	1.30m	0.37	
		95	IU-32-19	34.45m	35.85m	1.40m	0.36	
		85	IU-32-20	35.85m	37.75m	1.90m	0.45	

PROPERTY Lodner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.



Cochrane Consultants Limited

DIP TEST		
Depth	Angle	
Metres	Reading	Corrected
Casing	-90°	

HOLE No. IU-33 Sheet No. 1 of 2 Lat. 736.01
 Section 733 Dep. 535.85
 Date Begun Bearing 0°
 Date Finished Elev. Collar 927.28

Total Depth 57.35m
 Logged By D. Griffith
 Claim IDAHO
 Core Size A.C.

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz./ton	'LORING' Au oz./ton
00-0.60	MUCK	80	IU-33-1	0.60m	3.40m	2.80m	0.037	
		85	IU-33-2	3.40m	6.10m	2.70m	0.006	
0.60-9.65	NXWAF, FLWAF; CLV/CL 60°;	80	IU-33-3	6.10m	9.65m	3.55m	0.017	
	2% QZ CLV, 2% CA; to AS; 0.1% PR; 0% CP, PY	75	IU-33-4	9.65m	11.25m	1.60m	0.010	
		90	IU-33-5	11.25m	12.50m	1.25m	0.032	
		60	IU-33-6	12.50m	14.30m	1.80m	0.053	
9.65-14.30	FLWAF, FLWAF. 12% QZ 10°	70	IU-33-7	14.30m	17.85m	3.55m	0.038	
	60°; 1% CA; 1% PR; to AS; 0.3% PY;	75	IU-33-8	17.85m	21.00m	3.15m	0.003	
	0% CP.	85	IU-33-9	21.00m	22.90m	1.90m	0.054	
		95	IU-33-10	22.90m	24.25m	1.35m	0.044	
14.30-21.00	MAMA; GR/CL 35° → 70°; 4%	90	IU-33-11	24.25m	25.90m	1.65m	0.12	
	QZ GR; 3% CA; to PR; 0% AS, PY, CP	90	IU-33-12	25.90m	27.40m	1.50m	0.20	
	"DEAD STUFF IN THE MIDDLE"	90	IU-33-13	27.40m	29.00m	1.60m	0.50	
		90	IU-33-14	29.00m	30.50m	1.50m	0.33	
21.00-30.50	FLWAF, QZ BX, ABCB; CLV/CL 65°;	75	IU-33-15	30.50m	34.25m	3.75m	0.045	
	30% (15% - 70%) QZ CLV; 3%	99	IU-33-16	34.25m	36.60m	2.35m	0.005	
	CA; 0.4% AS; 4% PR; 0.3% CP;	95	IU-33-17	36.60m	39.30m	2.70m	0.003	
	0.5% PY.	95	IU-33-18	39.30m	42.05m	2.75m	0.004	
		85	IU-33-19	42.05m	44.90m	2.85m	0.007	
30.50-57.35	NXWAF; CLV 75° → 50°; 5% QZ	99	IU-33-20	44.90m	47.50m	2.60m	< 0.002	
	CLV ~ 10°; 3% CA; to (0-01%)							

PROPERTY... Lodner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.



Cochran Consultants Limited

DIP TEST

Depth Metres	Angle	
	Reading	Corrected
	+27°	

HOLE No. IU-34 Sheet No. 1 of 1 Lat. 804.24
 Section 800 Dep. 520.15
 Date Begun Bearing 90°
 Date Finished Elev. Collar 909.57

Total Depth 41.50m
 Logged By D. Griffith
 Claim IDAHO
 Core Size A-Q

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz./ton	'LORING' Au oz./ton
0.0-1.70	FLWAF, CLSHZ; CLV 65°; 25% QZ II	85	IU-34-1	0.00m	1.70m	1.70m	0.17	
	CLV ~10°; 5% CA; 1.0% AS; 3.0% PR;	80	IU-34-2	1.70m	5.05m	3.35m	0.002	
	1.0% PY; 0% CP	80	IU-34-3	5.05m	8.25m	3.20m	0.002	
1.70-11.50	NDWAF, NDWAF; CLV / CL 65°; 3%	75	IU-34-4	8.25m	11.50m	3.25m	0.004	
	QZ II CLV ~10°; 2% CA; tr PR;	90	IU-34-5	11.50m	14.30m	2.80m	0.015	
	0% AS, PY, CP	75	IU-34-6	14.30m	17.60m	3.30m	0.014	
11.50-31.40	WARRA, NKWAF; BED VAR; CLV	85	IU-34-7	17.60m	20.60m	3.00m	0.011	
	70° → 60°, L CL, L GR; 10%	95	IU-34-8	20.60m	23.40m	2.80m	0.019	
	QZ II CLV ~10°; 1% CA; tr AS;	99	IU-34-9	23.40m	25.90m	2.50m	0.024	
	0.1% PR; tr (0-tr) PY; 0% CP	90	IU-34-10	25.90m	28.75m	2.85m	0.023	
		90	IU-34-11	28.75m	31.40m	2.65m	0.005	
31.40-37.60	QZ UN, FLWAF; 40% QZ; 0% CA	99	IU-34-12	31.40m	31.95m	0.55m	0.044	
	0.2% AS; 0.4% PR; 0.5% PY; 0% CP	99	IU-34-13	31.95m	33.35m	1.40m	0.031	
		99	IU-34-14	33.35m	34.65m	1.30m	0.039	
		99	IU-34-15	34.65m	36.00m	1.35m	0.003	
		99	IU-34-16	36.00m	37.60m	1.60m	0.005	
37.60-41.50	LIWANF, MMARN; 0% QZ; 2% CA	90	IU-34-17	37.60m	40.20m	2.60m	0.003	
	0% AS, PR, CP, PY	85	IU-34-18	40.20m	41.50m	1.30m	0.005	

PROPERTY Ladner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.



Cochrane Consultants Limited

DIP TEST		
Depth Metres	Angle	
	Reading	Corrected
	0°	

HOLE No. IU-35 Sheet No. 1 of 1 Lot. 804.24
 Section 800 Dep. 520.19
 Date Begun..... Bearing 90°
 Date Finished..... Elev. Collar. 908.11

Total Depth 54.90m
 Logged By D. Griffith
 Claim IDAHO
 Core Size A.Q.

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz/ton	'LORING' Au oz/ton
000-405	QZBX, FLWA1. 50% QZ 40°; 2% CA; 0.1%	85	IU-35-1	0.00m	1.60m	1.60m	0.089	
	AS; 0.8% PR; 3.3% PY; 0% CP	60	IU-35-2	1.60m	4.05m	2.45m	0.16	
4.05-19.10	WAAR, NXWAF; BED/CLV/L GR 60°	85	IU-35-3	4.05m	7.30m	3.25m	0.005	
	1% QZ // CLV ~ 0°; 1% CA; trace PR;	70	IU-35-4	7.30m	10.70m	3.40m	0.002	
	0% AS, PY, CP.	80	IU-35-5	10.70m	13.70m	3.00m	0.005	
		90	IU-35-6	13.70m	16.45m	2.75m	0.007	
		90	IU-35-7	16.45m	19.10m	2.65m	0.002	
19.10-40.55	XXWA, WAAR; BED/CLV/L GR 55°	65	IU-35-8	19.10m	22.75m	3.65m	0.004	
	→ 35°; 5% QZ // CLV ~ 0°; trace	90	IU-35-9	22.75m	25.70m	2.95m	0.009	
	CA; trace (0-0.2) AS; 0.1% PR;	80	IU-35-10	25.70m	28.95m	3.25m	0.008	
	0% PY, CP.	75	IU-35-11	28.95m	32.20m	3.25m	0.017	
		75	IU-35-12	32.20m	35.15m	2.95m	0.004	
		80	IU-35-13	35.15m	38.00m	2.85m	0.002	
		99	IU-35-14	38.00m	40.55m	2.55m	0.002	
40.55-54.90	FLWA1AF, AXWA; CLV/L CL/L	95	IU-35-15	40.55m	43.40m	2.85m	0.011	
	GR 30°-65°; 14% QZ // CLV	95	IU-35-16	43.40m	46.15m	2.75	0.007	
	~ 20°; 1% CA; trace AS; 0.2%	80	IU-35-17	46.15	49.20m	3.05	0.026	
	PR; 0.2% PY, 0% CP.	70	IU-35-18	49.20m	52.75m	3.55m	0.018	
		50	IU-35-19	52.75m	54.90m	2.15m	0.022	

PROPERTY Ladner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.



Cochrane Consultants Limited

DIP TEST		
Depth	Angle	
Metres	Reading	Corrected
	-90°	

HOLE No. IU-37 Sheet No. 1 of 2 Lat. 804.76
800 Dep. 518.48
 Section Bearing
 Date Begun Elev. Collar 906.88
 Date Finished.....

Total Depth 78.95m
 Logged By D. Griffith
 Claim Idaho
 Core Size A.Q.

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz/ton	'LORING' Au oz/ton
0.00 - 1.75	MUCK	70	IU-37-1	1.75m	5.40m	3.65m	0.024	
		65	IU-37-2	5.40m	9.35m	3.95m	0.038	
1.75 - 16.65	NDWAF, CLSHZ; CLV/CL 45°; 5% QZ	90	IU-37-3	9.35m	12.15m	2.80m	0.053	
	11 CLV; 2% CA; 0.1% AS; 0.1% PR;	85	IU-37-4	12.15m	15.30m	3.15m	0.071	
	0% PY, CP.	95	IU-37-5	15.30m	16.65m	1.35m	0.043	
16.65 - 28.40	FLWAF, QZBX; 45% QZ 50°(?) - 100°	95	IU-37-6	16.65m	18.05m	1.40m	0.28	
	2% CA; 3.0% AS; 2.0% PR; 3.0% PY;	90	IU-37-7	18.05m	19.50m	1.45m	0.43	
	0% CP.	80	IU-37-8	19.50m	21.05m	1.55m	0.25	
		85	IU-37-9	21.05m	22.55m	1.50m	0.21	
		90	IU-37-10	22.55m	24.95m	2.40m	0.20	
		80	IU-37-11	24.95m	28.40m	3.45m	0.12	
28.40 - 30.00	FLT	50	IU-37-12	28.40m	30.00m	1.60m	0.020	
30.00 - 37.50	MADR, NDWAF; 1% QZ VAR = 0°; 1% CA;	70	IU-37-13	30.00m	34.25m	4.25m	0.005	
	to PR; 0% AS PY, CP.	90	IU-37-14	34.25m	37.50m	3.25m	0.003	
37.50 - 50.10	FLWAF, FLWAF; 10% (3% - 30%)	99	IU-37-15	37.50m	39.30m	1.80m	0.030	
	QZ VAR; 1% CA; 0.3% AS; 15%	99	IU-37-16	39.30m	40.75m	1.45	0.16	
	PR; 2.0% PY, 0% CP.	99	IU-37-17	40.75m	42.40m	1.65m	0.23	
		95	IU-37-18	42.40m	44.05m	1.65m	0.25	
		95	IU-37-19	44.05m	45.85m	1.80m	0.21	
		95	IU-37-20	45.85m	47.35m	1.50m	0.70	
		99	IU-37-21	47.35m	48.70m	1.35m	0.17	

PROPERTY... Ladner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.



Cochrane Consultants Limited

DIP TEST		
Depth	Angle	
Metres	Reading	Corrected
	-90°	

HOLE No. IU-37 Sheet No. 2 of 2 Lat. 804.76
 Section 800 Dep. 518.48
 Date Begun..... Bearing.....
 Date Finished..... Elev. Collar. 906.88

Total Depth. 78.95m
 Logged By. D. Griffith
 Claim Idaho
 Core Size A-Q.

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz/ton	'LORING' Au oz/ton
		90	IU-37-22	48.70m	50.10m	1.40m	0.71	
50.10-65.85	NDWA, NDWF, FLWAIF; CLU/CL 55°-70°; 2.7 QZ // CLV ~ 0°; 2.7 CA; 4.0 AS; 0.47 PR; 0.17 PY; 0.1 CP.	95	IU-37-23	50.10m	52.70m	2.60m	0.057	
		95	IU-37-24	52.70m	54.60m	1.90m	0.083	
		95	IU-37-25	54.60m	56.10m	1.50m	0.035	
		95	IU-37-26	56.10m	57.60m	1.50m	0.022	
		95	IU-37-27	57.60m	59.15m	1.55m	0.017	
		90	IU-37-28	59.15m	60.65m	1.50m	0.029	
		95	IU-37-29	60.65m	62.20m	1.55m	0.011	
		95	IU-37-30	62.20m	64.35m	2.15m	0.087	
		99	IU-37-31	64.35m	65.85m	1.50m	0.010	
65.85-78.95	NDWA, FLWAIF; CLU/CL 60°-47°; QZ // CLV; 2.7 CA; 0.37 AS; 1.57 PR; 0.057 RP; 0.17 PY.	95	IU-37-32	65.85m	67.40m	1.55m	0.15	
		95	IU-37-33	67.40m	68.90m	1.50m	0.11	
		95	IU-37-34	68.90m	70.45m	1.55m	0.090	
		99	IU-37-35	70.45m	72.10m	1.65m	0.21	
		90	IU-37-36	72.10m	73.75m	1.65m	0.29	
		95	IU-37-37	73.75m	75.35m	1.60m	0.18	
		90	IU-37-38	75.35m	76.85m	1.50m	0.10	
		85	IU-37-39	76.85m	78.95m	2.10m	0.069	

PROPERTY Ladner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.



Cochrane Consultants Limited

DIP TEST		
Depth Metres	Angle	
	Reading	Corrected
	-38°	

HOLE No. IU-38 Sheet No. 1 of 2 Lat. 804.55
 Section 800 Dep. 515.97
 Date Begun Bearing 270°
 Date Finished Elev. Collar. 906.80

Total Depth 89.65m
 Logged By D. Griffith
 Claim Idaho
 Core Size A.Q.

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz/ton	'LORING' Au oz/ton
0.00 - 1.20	MUCK	70	IU-38-1	1.20m	3.05m	1.85m	0.012	
		95	IU-38-2	3.05m	4.25m	1.20m	0.10	
1.20 - 3.05	NDWAF. CLV/CL 70°; 5% Qz II CLV; 2% CA;	75	IU-38-3	4.25m	5.95m	1.70m	0.18	
	0.1% PR; 0% AS, CP, PY	75	IU-38-4	5.95m	7.60m	1.65m	0.027	
		85	IU-38-5	7.60m	10.70m	3.10m	0.034	
3.05 - 7.60	FLWAF, CLS42, NDWAF. CLV/CL 55°; 20%	80	IU-38-6	10.70m	13.50m	2.80m	0.053	
	Qz II CLV; 2% CA; 0.3% AS; 0.3% PR; 0.3% PY; 0% CP	70	IU-38-7	13.50m	17.10m	3.60m	0.12	
		60	IU-38-8	17.10m	19.50m	2.40m	0.12	
7.60 - 13.50	NDWAF, CLV/CL 65°; 6% Qz II CLV; 2% CA; f.c.	90	IU-38-9	19.50m	21.00m	1.50m	0.21	
	AS; f.c. PR; f.c. PY; 0% CP	70	IU-38-10	21.00m	24.30m	3.30m	0.052	
		90	IU-38-11	24.30m	27.70m	3.40m	0.050	
13.50 - 38.10	NDWAF, FLWAF. CLV/L CL 60°; 10%	90	IU-38-12	27.70m	30.70m	3.00m	0.058	
	Qz II CLV; 2% CA; 0.1% AS; 0.4%	99	IU-38-13	30.70m	32.05m	1.35m	0.11	
	PR; f.c. (0-f.c.) CP; f.c. PY	95	IU-38-14	32.05m	33.75m	1.70m	0.10	
		99	IU-38-15	33.75m	35.30m	1.55m	0.13	
		99	IU-38-16	35.30m	36.75m	1.45m	0.070	
		99	IU-38-17	36.75m	38.10m	1.35m	0.11	
38.10 - 73.45	NDWAF, WAF. BED 0° - VAR.	45	IU-38-18	38.10m	41.15m	3.05m	0.022	
	CLV 45°; 4% Qz II CLV; 1%	95	IU-38-19	41.15m	43.85m	2.70m	0.005	
	CA; f.c. PR; f.c. (0-0.5%) PY;	99	IU-38-20	43.85m	46.60m	2.75m	0.008	
	0% AS C.P							

PROPERTY... Ladner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.



Cochrane Consultants Limited

DIP TEST		
Depth	Angle	
Metres	Reading	Corrected
	-32°	

HOLE No. IU-39 Sheet No. 1 of 2 Lat. 804.54
 Section 800 Dep. 514.98
 Date Begun Bearing 270°
 Date Finished Elev. Collar 906.89

Total Depth 62.50m
 Logged By D. Griffith
 Claim Idaho
 Core Size A.Q.

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz/ton	'LORING' Au oz/ton
0.0 - 1.20	NDWA; CLV/CL 60°; 37. QZ // CLV; 17. CA;	70	IU-39-1	0.00m	2.10m	2.10m	0.012	
	0.27 PR; 07 AS; CP; PY	99	IU-39-2	2.10m	3.40m	1.30m	0.065	
1.20 - 23.30	NDWAF, FLWAF, FLWAI. CLV/L CL	99	IU-39-3	3.40m	4.70m	1.30m	0.080	
	60° - 80°; 77. QZ // CLV; 10°	85	IU-39-4	4.70m	6.25m	1.55m	0.022	
	27. CA; 0.17 AS; 0.57 PR;	80	IU-39-5	6.25m	7.95m	1.70m	0.019	
	trc (0 - trc) CP; trc (0 - 0.27) PY.	90	IU-39-6	7.95m	9.45m	1.50m	0.010	
		90	IU-39-7	9.45m	11.10m	1.65m	0.15	
		90	IU-39-8	11.10m	13.70m	2.60m	0.009	
		90	IU-39-9	13.70m	15.55m	1.85m	<0.002	
		95	IU-39-10	15.55m	18.10m	2.55m	0.032	
		90	IU-39-11	18.10m	20.95m	2.85m	0.025	
		99	IU-39-12	20.95m	23.30m	2.35m	0.009	
23.30 - 42.90	WAPR, NDAR; BED 0° - 25°; L CLV	95	IU-39-13	23.30m	26.05m	2.75m	0.002	
	L CL 60°; 27. QZ VAR;	90	IU-39-14	26.05m	28.95m	2.90m	0.002	
	17. CA; trc PR; 07 AS; CP; PY	90	IU-39-15	28.95m	31.55m	2.60m	0.003	
		90	IU-39-16	31.55m	34.25m	2.70m	0.004	
		85	IU-39-17	43.25m	37.65m	3.40m	<0.002	
		90	IU-39-18	37.65m	40.45m	2.80m	0.002	
		90	IU-39-19	40.45m	42.90m	2.45m	0.011	
42.90 - 62.50	L1WAF, NDAR, WAPR; BED 30° -	95	IU-39-20	42.90m	45.95m	3.05m	0.004	



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PROPERTY... Ladner Cr., IDAHO ZONE

Diamond Drift Record CAROLIN MINES LTD.

DIP TEST		
Depth	Angle	
Metres	Reading	Corrected
	+6°	

HOLE No. IU-40 Sheet No. 1 of 2 Lat. 804.60
 Section 800 Dep. 514.90
 Date Begun Bearing 270°
 Date Finished Elev. Collar 908.63

Total Depth 67.70m
 Logged By D. Griffith
 Claim Idaho
 Core Size A.Q.

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz/ton	'LORING' Au oz/ton
0.00 - 7.85	NDWAF, NDWA. CLV/CL 45° 7%	85	IU-40-1	0.00m	3.35m	3.35m	0.016	
	QZ 11 CLV ~ 0°, 2% CA, fr AS;	95	IU-40-2	3.35m	6.10m	2.75m	0.014	
	0.2% PR, fr PY, 0% CP.	95	IU-40-3	6.10m	7.85m	1.75m	0.008	
7.85 - 10.70	CLSHZ, 20% QZ 30°-30°, 3% CA, 0.7%	99	IU-40-4	7.85m	9.15m	1.30m	0.12	
	AS, 3.0% PR, 0.1% CP, 0% PY.	90	IU-40-5	9.15m	10.70m	1.55m	0.095	
10.70 - 25.00	LIWA LIWAH, 6% QZ 30° 70°	95	IU-40-6	10.70m	13.10m	2.40m	0.008	
	10% fr CA, 0.2% PR, 0% AS,	90	IU-40-7	13.10m	16.00m	2.90m	0.010	
	CP, PY.	85	IU-40-8	16.00m	19.00m	3.00m	0.005	
		90	IU-40-9	19.00m	21.75m	2.75m	0.008	
		90	IU-40-10	21.75m	25.00m	3.25m	0.016	
25.00 - 32.00	FLWAF, QZ UN. 30% (0% - 95%)	85	IU-40-11	25.00m	26.70m	1.70m	0.055	
	QZ, 0% CA, 0.5% AS, 0.2% PR,	90	IU-40-12	26.70m	28.40m	1.70m	0.038	
	fr (C - 0.2%) PY, 0% CP.	65	IU-40-13	28.40m	30.20m	1.80m	0.21	
		85	IU-40-14	30.20m	32.00m	1.80m	0.60	
32.00 - 55.50	NPAR (?) CHERN. CLV/CL	35	IU-40-15	32.00m	34.70m	2.70m	0.013	
	30° - 55° 2% QZ 60° ~ 0°	90	IU-40-16	34.70m	36.95m	2.25m	0.015	
	fr CA, fr PR, fr (0-0.1%)	99	IU-40-17	36.95m	40.80m	3.85m	< 0.002	
	AS, 0% CP, PY	99	IU-40-18	40.80m	42.70m	1.90m	0.005	
		90	IU-40-19	42.70m	45.90m	3.20m	0.002	
		85	IU-40-20	45.90m	49.40m	3.50m	< 0.002	



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PROPERTY: Ladner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.

DIP TEST		
Depth	Angle	
Metres	Reading	Corrected
	-90°	

HOLE No. IU-41 Sheet No. 1 of 2 Lat. 766.57
 Section. Dep. 506.00
 Date Begun. Bearing
 Date Finished. Elev. Collar 916.60

Total Depth 60.00m
 Logged By D. Griffith
 Claim Idaho
 Core Size A.Q.

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz./ton	'LORING' Au oz./ton
0.00 - 1.50	MUCK	85	IU-41-1	1.50m	4.40m	2.90m	0.004	
		85	IU-41-2	4.40m	5.90m	1.50m	0.49	
1.50 - 4.40	CLSHZ; CLV/CL 40°; 2% QZ CLV; fr	95	IU-41-3	5.90m	8.25m	2.35m	0.23	
	CA; fr PR; 0% PS, PY	95	IU-41-4	8.25m	9.75m	1.50m	0.058	
		90	IU-41-5	9.75m	12.65m	2.90m	0.066	
4.40 - 26.70	FLWAZ, FLWAZ, CLSHZ; CLV/CL 40° -	90	IU-41-6	12.65m	14.15m	1.50m	0.026	
	50°; 7% QZ CLV; 2% CA	90	IU-41-7	14.15m	15.25m	1.10m	0.13	
	0.3% PS; 1.5% PR; 0.4% PY; fr	95	IU-41-8	15.25m	16.65m	1.40m	0.22	
	(0-0.4%) CP;	90	IU-41-9	16.65m	18.05m	1.40m	0.11	
		95	IU-41-10	18.05m	20.35m	2.30m	0.16	
		95	IU-41-11	20.35m	22.75m	2.40m	0.070	
		90	IU-41-12	22.75m	25.20m	2.45m	0.19	
		90	IU-41-13	25.20m	26.70m	1.50m	0.29	
26.70 - 42.60	NWAZ, NWAZ; CLV/CL 50°; 4% QZ	99	IU-41-14	26.70m	29.25m	2.55m	0.095	
	CLV ~ 10°; 2% CA; fr (0 -	95	IU-41-15	29.25m	31.70m	2.45m	0.052	
	0.3%) PS; 0.6% PR; 0.1%	50	IU-41-16	31.70m	34.75m	3.05m	0.11	
	CP; fr (0 - 0.3%) PY.	90	IU-41-17	34.75m	37.95m	3.20m	0.035	
		90	IU-41-18	37.95m	40.85m	2.90m	0.017	
		99	IU-41-19	40.85m	42.60m	1.75	0.058	
42.60 - 50.65	FLWAZ, FLWAZ, PXAZ; CLV/CL 45°;	50	IU-41-20	42.60m	44.95m	2.35	0.49	
	10% (3% - 25%) QZ CLV ~ 10°; 2% CA;	90	IU-41-21	44.95m	48.00m	3.05m	0.20	



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Diamond Drill Record CAROLIN MINES LTD.

HOLE No. IU-42 Sheet No. 1 of 1 Lat. 766.12
 Section Dep. 504.56
 Date Begun Bearing 270°
 Date Finished Elev. Collar 916.57

Total Depth 49.10m
 Logged By D. Griffith
 Claim Idaho
 Core Size A-Q

PROPERTY Ladner Cr. IDAHO ZONE

DIP TEST

Depth Metres	Angle	
	Reading	Corrected
	-39°	

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz/ton	'LORING' Au oz/ton
00-1.85	MUCK	85	IU-42-1	1.85m	5.55m	3.70m	0.009	
1.85-5.55	CHER. BED/CLU 90°, 17 QZ HBED, 5% CA.	90	IU-42-2	5.55m	7.10m	1.55m	0.095	
	0.1% PR; 0% AS, CP, PY.	95	IU-42-3	7.10m	8.50m	1.40m	0.14	
5.55-16.30	FLWA1, FLWA2; CLU/CL 75°, 15% QZ	95	IU-42-4	8.50m	10.15m	1.65m	0.18	
	10° ~ 11% CLU, 4% CA, 0.1% AS, 1.5%	90	IU-42-5	10.15m	13.40m	3.25m	0.053	
	PR; 0.02% CP; 0.7% PY.	95	IU-42-6	13.40m	16.30m	2.90m	0.21	
16.30-49.10	NXAR, CHER, FLWA1, BED 0°-45°	90	IU-42-7	16.30m	19.05m	2.75m	0.030	
	L CLU 60°, 6% (27-20%) QZ	95	IU-42-8	19.05m	21.65m	2.60m	0.008	
	70° ~ 20% Trc (0-0.2%)	85	IU-42-9	21.65m	24.55m	2.90m	0.012	
	AS, 0.2% PR; Trc (0-0.05%) CP	99	IU-42-10	24.55m	27.35m	2.80m	0.006	
	0.1% PY.	95	IU-42-11	27.35m	30.10m	2.75m	0.012	
		90	IU-42-12	30.10m	32.50m	2.40	0.015	
		99	IU-42-13	32.50m	33.90m	1.40m	0.018	
		99	IU-42-14	33.90m	36.00m	2.10m	0.028	
		90	IU-42-15	36.00m	39.35m	3.35m	0.015	
		80	IU-42-16	39.35m	42.50m	3.15m	0.002	
		40	IU-42-17	42.50m	44.50m	2.00m	0.003	
		90	IU-42-18	44.50m	46.20m	1.70m	0.002	
		95	IU-42-19	46.20m	49.10m	2.90m	0.008	



Cochrane Consultants Limited

PROPERTY Lodner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.

DIP TEST		
Depth Metres	Angle	
	Reading	Corrected
	0°	

HOLE No. IU-43 Sheet No. 1 of 2 Lat. 766.33
 Section Dep. 504.06
 Date Begun Bearing 270°
 Date Finished Elev. Collar 917.73

Total Depth 63.70m
 Logged By D. Griffith
 Claim Idaho
 Core Size A.Q.

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz/ton	'LORING' Au oz/ton
0.00 - 3.50	MAR; CLV/CL 40°; 2% QZ HCLV; 3% CA; 0.1% PR; 0% AS, CP, PY.	70	IU-43-1	0.00m	3.50m	3.50m	0.002	
		85	IU-43-2	3.50m	6.45m	2.95m	0.004	
		90	IU-43-3	6.45m	9.35m	2.90m	0.003	
3.50 - 21.15	LIWA MAR, WARKA, BED 20°-55°; CLV/CL 45°; 4% QZ HCLV; 10% 3% (H. -15%) CA; 0.1% PR; 0% AS, CP, PY.	90	IU-43-4	9.35m	12.35m	3.00m	0.005	
		60	IU-43-5	12.35m	16.10m	3.75m	0.003	
		85	IU-43-6	16.10m	19.15m	3.05m	0.002	
		99	IU-43-7	19.15m	22.15m	3.00m	0.007	
22.15 - 43.45	FLWAIF QZVN. L CLV / L CL 45°; 40% (5% - 70%) QZ VARK; AC CA; 0.2% AS; 0.2% PR; 0% PY; 0% CP.	90	IU-43-8	22.15m	24.10m	1.95m	0.26	
		85	IU-43-9	24.10m	25.60m	1.50m	0.050	
		99	IU-43-10	25.60m	27.00m	1.40m	0.12	
		95	IU-43-11	27.00m	28.45m	1.45m	0.15	
		95	IU-43-12	28.45m	29.90m	1.45m	0.090	
		90	IU-43-13	29.90m	31.45m	1.55m	0.10	
		90	IU-43-14	31.45m	32.90m	1.45m	0.070	
		90	IU-43-15	32.90m	34.45m	1.55m	0.035	
		90	IU-43-16	34.45m	35.85m	1.40m	0.025	
		90	IU-43-17	35.85m	37.40m	1.55m	0.13	
		90	IU-43-18	37.40m	38.70m	1.30m	0.20	
		90	IU-43-19	38.70m	40.10m	1.40m	0.16	
		90	IU-43-20	40.10m	41.50m	1.40m	0.050	
		60	IU-43-21	41.50m	43.45m	1.95m	0.045	



Cochrane Consultants Limited

PROPERTY Lodner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.

DIP TEST		
Depth	Angle	
Metres	Reading	Corrected
	-45°	

HOLE No. IU-47 Sheet No. 1 of 1 Lat. 766.12
 Section 504.60 Dep. 270
 Date Begun 270 Bearing 270
 Date Finished 916.57 Elev. Collar 916.57

Total Depth 34.15m
 Logged By D. Griffith
 Claim Idaho
 Core Size A.A.Q.

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz./ton	'LORING' Au oz./ton
0.0 - 1.25	MUCK	85	IU-47-1	1.25m	4.40m	3.15m	0.005	
		99	IU-47-2	4.40m	6.40m	2.00m	0.13	
1.25 - 18.45	FLWA(?) CLSHZ(?) NDWA F. CLU/	95	IU-47-3	6.40m	7.95m	1.55m	0.15	
	CL 75°; 10% (3% - 50%) QZ	80	IU-47-4	7.95m	9.75m	1.80m	0.13	
	CLU, 0° & 40°; 1% CA; 0.2%	90	IU-47-5	9.75m	11.30m	1.55m	0.080	
	AS; 1.0% PR; 0.2% PY; 0.02% CP	99	IU-47-6	11.30m	12.80m	1.55m	0.036	
		90	IU-47-7	12.80m	14.40m	1.60m	0.11	
		95	IU-47-8	14.40m	15.85m	1.45m	0.048	
		99	IU-47-9	15.85m	17.25m	1.40m	0.026	
		99	IU-47-10	17.25m	18.45m	1.20m	0.035	
18.45 - 34.15	NDWA F(?) NDWA H(?) CHFR. BED	95	IU-47-11	18.45m	21.45m	3.00m	0.005	
	60° - 60°; CLV 65°; 5% QZ	99	IU-47-12	21.45m	23.40m	1.95m	0.006	
	80° & 10°; 1% CA; 0.2% PR;	99	IU-47-13	23.40m	25.15m	1.75m	0.020	
	As (0 - 0.8%) PY; 0% AS, CP	99	IU-47-14	25.15m	28.05m	2.90m	0.007	
		99	IU-47-15	28.05m	29.70m	1.65m	0.004	
		99	IU-47-16	29.70m	31.40m	1.70m	0.013	
		95	IU-47-17	31.40m	32.65m	1.25m	0.012	
		90	IU-47-18	32.60m	34.15m	1.50m	0.49	
34.15 →	ABANDONED							



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PROPERTY Ladner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.

DIP TEST		
Depth Metres	Angle	
	Reading	Corrected

HOLE No. IU-48 Sheet No. 1 of 2 Lat.
 Section Dep.
 Date Begun Bearing
 Date Finished Elev. Collar

Total Depth 67.40m
 Logged By
 Claim
 Core Size

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz/ton	'LORING' Au oz/ton
0.0-21.75	NDWA, NDWAF, FLWA1. CLV/CL	65	IU-48-1	0.00m	3.65m	3.65m	0.009	
	40°-70° 20% QZ II CLV &	65	IU-48-2	3.65m	5.70m	2.05m	0.013	
	10° 37' CA; 0.1% AS; 0.4%	90	IU-48-3	5.70m	8.30m	2.60m	0.042	
	PR; tr 0.1% PY; tr (0-tr) CP	99	IU-48-4	8.30m	9.65m	1.35m	0.050	
		95	IU-48-5	9.15m	10.95m	1.30m	0.050	
		95	IU-48-6	10.95m	12.35m	1.40m	0.10	
		90	IU-48-7	12.35m	13.80m	1.45m	0.050	
		65	IU-48-8	13.80m	15.75m	1.95m	0.080	
		95	IU-48-9	15.75m	17.20m	1.45m	0.075	
		60	IU-48-10	17.20m	20.20m	3.00m	0.026	
		90	IU-48-11	20.20m	21.75m	1.55m	0.025	
21.75-49.05	WARRA. BED 0°-90°. CLV/	80	IU-48-12	21.75m	24.70m	2.95m	0.028	
	LGR 50°-65° 5% (1%-50%)	90	IU-48-13	24.70m	28.05m	3.35m	0.012	
	QZ II CLV ~ 10°, 1% CA.	95	IU-48-14	28.05m	31.10m	3.05m	0.011	
	tr (0.1-0.2%) AS; 0.2% PR!	85	IU-48-15	31.10m	33.25m	2.15m	0.002	
	tr (0-0.1%) CL, 0% PY	50	IU-48-16	33.25m	35.35m	2.10m	0.020	
		90	IU-48-17	35.35m	38.70m	3.35m	0.015	
		85	IU-48-18	38.70m	41.80m	3.10m	0.004	
		90	IU-48-19	41.80m	44.60m	2.80m	0.004	
		85	IU-48-20	44.60m	47.75m	3.15m	0.011	
		99	IU-48-21	47.75m	49.05m	1.30m	0.032	

PROPERTY Ladner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.



Cochrane Consultants Limited

DIP TEST		
Depth Metres	Angle	
	Reading	Corrected

HOLE No. IU-49 Sheet No. 1 of 1 Lat. Total Depth.....
 Section Dep. Logged By.....
 Date Begun Bearing Claim.....
 Date Finished..... Elev. Callor Core Size.....

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz/ton	'LORING' Au oz/ton
0.00 - 22.35	FLWA1, QZ BX, XXAR. S FRC.	95	IU-49-1	0.00m	2.95m	2.95m	0.005	
	20% QZ 70° ± 0°; 2% CA.	95	IU-49-2	2.95m	5.65m	2.70m	0.004	
	0.6% AS; 0.2% PR; 10% (0.7-45%)	90	IU-49-3	5.65m	7.25m	1.60m	0.15	
	PY, tr (0-tr) CP	85	IU-49-4	7.25m	9.70m	1.45m	0.095	
		90	IU-49-5	8.70m	10.15m	1.45m	0.16	
		85	IU-49-6	10.15m	11.60m	1.45m	0.16	
		40	IU-49-7	11.60m	14.00m	2.40m	0.19	
		45	IU-49-8	14.00m	15.85m	1.85m	0.30	
		45	IU-49-9	15.85m	17.50m	1.65m	0.020	
		90	IU-49-10	17.50m	19.10m	1.60m	0.015	
		95	IU-49-11	19.10m	20.65m	1.55m	0.030	
		90	IU-49-12	20.65m	22.35m	1.70m	0.040	
22.35 - 36.60	MARL, LIWA. BED/CLV 60-90°	90	IU-49-13	22.35m	25.25m	2.90m	0.013	
	2% QZ II BED; 2% CA; 0.7%	90	IU-49-14	25.25m	28.20m	2.95m	0.030	
	PR; 0% AS; PY; CP	99	IU-49-15	28.20m	30.50m	2.30m	0.018	
		99	IU-49-16	30.50m	33.00m	2.50m	0.006	
		50	IU-49-17	33.00m	36.60m	3.60m	0.003	



Cochrane Consultants Limited

Diamond Drill Record CAROLIN MINES LTD.

HOLE No. IU-51 Sheet No. 1 of 2 Lot. 836.80
 Section Dep. 512.70
 Date Begun Bearing 90°
 Date Finished Elev. Collar. 899.65

Total Depth. 54.25m
 Logged By. D. Griffith
 Claim. Idaho
 Core Size. A&Q.

DIP TEST

Depth Metres	Angle	
	Reading	Corrected

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz./ton	'LORING' Au oz./ton
0.0 - 0.60	MUCK	85	IU-51-1	0.60m	3.60m	3.00m	0.004	
		65	IU-51-2	3.60m	6.50m	2.90m	0.002	
0.60 - 8.60	WAF, NDWAF; BED/CLV 60°;	99	IU-51-3	6.50m	8.60m	2.10m	0.006	
	2% QZ CLV - 0°; 0% CA;	99	IU-51-4	8.60m	9.95m	1.35m	0.097	
	0.2% PR; 0% AS, PY, CP	95	IU-51-5	9.95m	12.20m	2.25m	0.020	
		99	IU-51-6	12.20m	13.70m	1.50m	0.15	
8.60 - 25.95	FLWAF, NDWAF; 10% QZ	85	IU-51-7	13.70m	15.25m	1.55m	0.13	
	0° & 50°; 2% CA; 0.2% AS.	90	IU-51-8	15.25m	16.70m	1.45m	0.18	
	0.3% PR; 0.2% (0%-20%) PY	70	IU-51-9	16.70m	18.70m	2.00m	0.055	
	0% CP.	90	IU-51-10	18.70m	19.95m	1.25m	0.045	
		85	IU-51-11	19.95m	21.40m	1.45m	0.044	
		80	IU-51-12	21.40m	23.00m	1.60m	0.035	
		90	IU-51-13	23.00m	24.40m	1.40m	0.003	
		95	IU-51-14	24.40m	25.95m	1.55m	0.008	
25.95 - 42.30	FLWAF, QZ BX; CLV(?) / CL 65° →	99	IU-51-15	25.95m	27.60m	1.65m	0.065	
	00°; 25% QZ CLV ~ 10°;	99	IU-51-16	27.60m	30.05m	2.45m	0.008	
	2% (1%-10%) CA; 0.7% AS;	99	IU-51-17	30.05m	31.40m	1.35m	0.041	
	1.0% PR; 0.3% PY; 0% CP	99	IU-51-18	31.40m	32.95m	1.55m	0.10	
		99	IU-51-19	32.95m	34.45m	1.50m	0.13	
		99	IU-51-20	34.45m	36.00m	1.55m	0.020	
		95	IU-51-21	36.00m	38.05m	2.05m	0.022	



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PROPERTY Ladner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.

DIP TEST		
Depth	Angle	
Metres	Reading	Corrected
	-90°	

HOLE No. IU-52 Sheet No. 1 of 2 Lat. 837.44
 Section Dep. 511.78
 Date Begun Bearing
 Date Finished Elev. Collar 899.66

Total Depth 60.35m
 Logged By D. Griffith
 Claim Idaho
 Core Size A.Q.

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz/ton	'LORING' Au oz/ton
0.0 - 1.20	MUCK	99	IU-52-1	1.20m	4.00m	2.80m	0.013	
		99	IU-52-2	4.00m	5.40m	1.40m	0.051	
1.20 - 10.00	NDAR, MPAR, FLWAF; CLV /	99	IU-52-3	5.40m	6.70m	1.30m	0.014	
	CL 65°-80°; 10% QZ II	99	IU-52-4	6.70m	10.00m	3.30m	0.011	
	CLV @ 0°; 1% CP; tr AS;	95	IU-52-5	10.00m	11.50m	1.60m	0.095	
	0.3% PR; 6% PY, CP	99	IU-52-6	11.50m	13.10m	1.50m	0.19	
		99	IU-52-7	13.10m	14.65m	1.55m	0.23	
10.0 - 38.55	FLWAF, NDWAF, FLWAF; CLV /	99	IU-52-8	14.65m	16.15m	1.50m	0.30	
	CL 35°-70°; 10% QZ 70° ~	95	IU-52-9	16.15m	17.55m	1.40m	0.37	
	20°; 2% CP; 0.4% (0.1% -	95	IU-52-10	17.55m	19.20m	1.65m	0.22	
	2.0%) AS; 0.2% PR; 10% (0.6-0.1)	99	IU-52-11	19.20m	20.40m	1.20m	0.14	
	PY; tr (0-0.1%) CP	95	IU-52-12	20.40m	22.05m	1.65m	0.15	
		99	IU-52-13	22.05m	23.90m	1.85m	0.28	
		50	IU-52-14	23.90m	26.85m	2.95m	0.28	
		99	IU-52-15	26.85m	28.45m	1.60m	0.34	
		80	IU-52-16	28.45m	30.25m	1.80m	0.11	
		95	IU-52-17	30.25m	31.95m	1.70m	0.23	
		99	IU-52-18	31.95m	34.20m	2.25m	0.15	
		95	IU-52-19	34.20m	35.85m	1.65m	0.087	
		99	IU-52-20	35.85m	37.20m	1.35m	0.098	
		95	IU-52-21	37.20m	38.55m	1.35m	0.11	



Cochrane Consultants Limited

PROPERTY Ladner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.

DIP TEST		
Depth	Angle	
Meters	Reading	Corrected
	47°	

HOLE No. IU-53 Sheet No. 1 of 2 Lat. 837.65
 Section Dep. 509.50
 Date Begun Bearing 270°
 Date Finished Elev. Collor. 899.65

Total Depth 100.60m
 Logged By D. Griffith
 Claim Idaho
 Core Size A.Q.

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz./ton	'LORING' Au oz./ton
0.0 - 0.20	MUCK	95	IU-53-1	0.20m	1.60m	1.40m	0.003	
		95	IU-53-2	1.60m	3.05m	1.45m	0.11	
0.20 - 28.40	NDWAF, NDWA, FLWAIFL; BED	65	IU-53-3	3.05m	6.70m	3.65m	0.002	
	0° - 25° - CLV 50° - 60° 5%	99	IU-53-4	6.70m	8.10m	1.40m	0.003	
	QZ CLV ~ 10°; 2% CA;	99	IU-53-5	8.10m	10.70m	2.60m	0.004	
	0.1% PR; tr (0-tr) AS; tr	95	IU-53-6	10.70m	13.80m	3.10m	0.002	
	(0-tr) PY; 0% CP	90	IU-53-7	13.80m	16.85m	3.05m	0.005	
		95	IU-53-8	16.85m	19.50m	2.65m	0.014	
		85	IU-53-9	19.50m	22.40m	2.90m	0.002	
		80	IU-53-10	22.40m	25.40m	3.00m	0.006	
		80	IU-53-11	25.40m	28.40m	3.00m	0.003	
28.40 - 36.00	FLWA1, NDWAF; BED 0°; CLV/	99	IU-53-12	28.40m	29.90m	1.50m	0.10	
	CL 40°; 6% QZ 0° a 60°	99	IU-53-13	29.90m	31.40m	1.50m	0.38	
	1% CA; 0.6% PR; 0.1% PY;	99	IU-53-14	31.40m	32.95m	1.55m	0.075	
	0% AS; CP	99	IU-53-15	32.95m	36.00m	3.05m	0.22	
36.00 - 52.90	WARRA, WARR, LICG?; BED 0° -	99	IU-53-16	36.00m	38.65m	2.65m	0.004	
	20°; 10% (2% - 60%) QZ	99	IU-53-17	38.65m	41.45m	2.80m	0.005	
	40° a 20°; 1% CA; 0.2% PR;	95	IU-53-18	41.45m	44.20m	2.75m	0.020	
	tr (0-20%) PY; tr (0-tr) CP;	80	IU-53-19	44.20m	47.10m	2.90m	0.007	
	0% AS	99	IU-53-20	47.10m	50.00m	2.90m	0.010	
		99	IU-53-21	50.00m	51.75m	1.75m	0.038	

PROPERTY... Ladner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.



Cochrane Consultants Limited

DIP TEST		
Depth	Angle	
Metres	Reading	Corrected
	-47°	

HOLE No. IU-53... Sheet No. 2 of 2... Lat. 837.65
 Section..... Dep. 509.50
 Date Begun..... Bearing 270°
 Date Finished..... Elev. Collar 899.65

Total Depth... 100.60m
 Logged By D. Griffith
 Claim Idaho
 Core Size A.Q.

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz/ton	'LORING' Au oz/ton
		90	IU-53-22	51.75m	52.90m	1.15m	0.12	
52.90-100.60	WATER, NIDWAF, NDWD; BED 0°-20°; CLV 45°-55° 2/	70	IU-53-23	52.90m	56.70m	3.80m	0.004	
	QZ 0° ~ 40°; 2T. CA. etc	75	IU-53-24	56.70m	60.00m	3.30m	0.004	
	PR; 07 PS, PY, CP	99	IU-53-25	60.00m	62.40m	2.40m	0.006	
		80	IU-53-26	62.40m	65.35m	2.95m	0.003	
		70	IU-53-27	65.35m	68.75m	3.40m	0.002	
		90	IU-53-28	68.75m	71.35m	2.60m	< 0.002	
		85	IU-53-29	71.35m	75.55m	4.20m	0.005	
		80	IU-53-30	75.55m	78.55m	3.00m	< 0.002	
		99	IU-53-31	78.55m	80.80m	2.25m	< 0.002	
		90	IU-53-32	80.80m	83.75m	2.95m	0.002	
		95	IU-53-33	83.75m	86.60m	2.85m	0.004	
		95	IU-53-34	86.60m	89.45m	2.85m	0.005	
		99	IU-53-35	89.45m	92.40m	2.95m	0.004	
		99	IU-53-36	92.40m	95.10m	2.70m	0.003	
		90	IU-53-37	95.10m	97.85m	2.75m	0.005	
		99	IU-53-38	97.85m	100.60m	2.75m	0.006	



Cochrane Consultants Limited

PROPERTY... Lodner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.

DIP TEST

Depth Metres	Angle	
	Reading	Corrected
	-5°	

HOLE No. IU-54 Sheet No. 1 of 2 Lat. 837.73
 Section Dep. 508.56
 Date Begun Bearing 270°
 Date Finished Elev. Collar 901.05

Total Depth... 55.50m
 Logged By... Griffith
 Claim... Idaho
 Core Size... A-C

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz./ton	'LORING' Au oz./ton
0.0-17.35	LIWA, NPAR CHER. BDR: 17	90	IU-54-1	0.00m	2.45m	2.45m	0.003	
	QE 50° ~ 20°; 17 CA; 0.17	95	IU-54-2	2.45m	4.25m	1.80m	0.022	
	PR; trc PY; 0.7 AS; PY	95	IU-54-3	4.25m	5.90m	1.65m	0.014	
		90	IU-54-4	5.90m	9.15m	3.25m	0.004	
		99	IU-54-5	9.15m	11.90m	2.75m	0.002	
		99	IU-54-6	11.90m	14.60m	2.70m	0.007	
		99	IU-54-7	14.60m	17.35m	2.75m	0.028	
17.35-24.35	FLWAIF, CHER(?) GRAR(?), L CL	99	IU-54-8	17.35m	18.75m	1.40m	0.064	
	57. QE VAR; trc CA; trc	95	IU-54-9	18.75m	19.90m	1.15m	0.028	
	(0-0.17) AS; 0.37 PR; 0.37	90	IU-54-10	19.90m	21.50m	1.60m	0.005	
	(0-1.07) PY; 0.7 CP	95	IU-54-11	21.50m	22.95m	1.45m	0.007	
		95	IU-54-12	22.95m	24.35m	1.40m	0.004	
24.35-44.10	NPAR(?) & XXAN. CLV/CL 35° →	95	IU-54-13	24.35m	26.75m	2.40m	0.004	
	60°; 27. (17-40) QE 20° ~ 60°	95	IU-54-14	26.75m	29.55m	2.80m	0.006	
	47. CA; trc (0-0.57) AS; trc	99	IU-54-15	29.55m	32.10m	2.55m	0.002	
	(0-0.27) PR; 0.17 PY; 0.7 CP	99	IU-54-16	32.10m	34.55m	2.45m	0.005	
		95	IU-54-17	34.55m	37.25m	2.70m	0.002	
		95	IU-54-18	37.25m	39.90m	2.65m	0.003	
		99	IU-54-19	39.90m	40.55m	0.65m	0.007	
		90	IU-54-20	40.55m	44.10m	3.55m	0.003	



Cochrane Consultants Limited

PROPERTY: Ladner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.

DIP TEST		
Depth	Angle	
Metres	Reading	Corrected
	+35°	

HOLE No. IU-55 Sheet No. 1 of 2 Lat. 837.81
 Section Dep. 508.70
 Date Begun Bearing 270°
 Date Finished Elev. Collar 902.56

Total Depth 77.15m
 Logged By D. Griffith
 Claim Idaho
 Core Size A.Q.

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz./ton	'LORING' Au oz./ton
00-10.55	NPAR (?), LIWA, LIWA QH. CLV ; BED 30°-90°; 4% QZ 30°; 1% CA; 0.2% PR; tr (0-tr) PY; 0% AS, CP	80	IU-55-1	0.00m	2.70m	2.70m	0.002	
		99	IU-55-2	2.70m	4.05m	1.35m	0.004	
		95	IU-55-3	4.05m	5.70m	1.65m	0.024	
		70	IU-55-4	5.70m	7.55m	1.85m	0.015	
		90	IU-55-5	7.55m	9.05m	1.50m	0.028	
		90	IU-55-6	9.05m	10.55m	1.50m	0.068	
10.55-18.70	FLWAIF (?), CHER (?); 15% (5% - 50%) QZ; GR; tr CA 0.4% PR; 0.3% PY, 0% AS, CP	99	IU-55-7	10.55m	11.90m	1.35m	0.14	
		90	IU-54-8	11.90m	13.50m	1.60m	0.13	
		95	IU-54-9	13.50m	15.50m	2.00m	0.003	
		80	IU-54-10	15.50m	18.70m	3.20m	0.004	
18.70-30.20	NPAR L XXAN; CLV / CL 45°-70°; 1% QZ // CLV & 20°; 1% CA; 0.1% PR; tr PY; 0% AS, CP	95	IU-55-11	18.70m	21.65m	2.95m	0.002	
		65	IU-55-12	21.65m	26.15m	4.50m	0.004	
		75	IU-55-13	26.15m	30.20m	4.05m	< 0.002	
		99	IU-55-14	30.20m	33.25m	3.05m	0.011	
		99	IU-55-15	33.25m	36.30m	3.05m	0.005	
30.20-77.15	XXANF, XXAN; CLV / CL 65°-75°; 2% (0-50%) QZ // CLV; 2% CA, 0% AS, PR, CP, PY	95	IU-55-16	36.30m	40.30m	4.00m	0.003	
		99	IU-55-17	40.30m	41.70m	1.40m	0.002	
		99	IU-55-18	41.70m	44.80m	3.10m	0.018	
		99	IU-55-19	44.80m	47.85m	3.05m	0.003	
		60	IU-55-20	47.85m	50.90m	3.05m	0.003	



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PROPERTY... Ladner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.

DIP TEST		
Depth Metres	Angle	
	Reading	Corrected
	+62°	

HOLE No. IU-56 Sheet No. 1 of 1 Lat. 837.59
 Section Dep. 510.07
 Date Begun Bearing 270°
 Date Finished Elev. Collor. 902.69

Total Depth. 52.75m
 Logged By D. Griffith
 Claim Idaho
 Core Size A.Q.

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz./ton	'LORING' Au oz./ton
0.0-10.65	MAMP, LWA BDR. BED 0° - 65° CLV 65°, 3% QZ	70	IU-56-1	0.00m	3.00m	3.00m	0.005	
	VAR. 2% CA, 0.2% PR; 0% AS, PY, CP	99	IU-56-2	3.00m	6.10m	3.10m	< 0.002	
		99	IU-56-3	6.10m	9.15m	3.05m	0.010	
		99	IU-56-4	9.15m	10.65m	1.50m	0.11	
10.65-16.45	QZ UN FLWTF(?) CHRD. 40% QZ; 0% CA; tr AS; 0.1% PR; 0.3% PY; tr (0-tr) CP.	99	IU-56-5	10.65m	12.20m	1.55m	0.077	
		99	IU-56-6	12.20m	13.70m	1.50m	0.038	
		35	IU-56-7	13.70m	15.25m	1.55m	0.003	
		99	IU-56-8	15.25m	16.45m	1.20m	0.006	
16.45-46.65	XXANF, XXAN, LCLV/LCL 60° - 80°; tr QZ 10%; tr CA, 0% AS, PR, CP, PY	90	IU-56-9	16.45m	19.50m	3.05m	0.002	
		95	IU-56-10	19.50m	22.10m	2.60m	0.003	
		99	IU-56-11	22.10m	25.10m	3.00m	< 0.002	
		99	IU-56-12	25.10m	28.00m	2.90m	0.002	
		95	IU-56-13	28.00m	31.10m	3.10m	< 0.002	
		90	IU-56-14	31.10m	34.45m	3.35m	0.002	
		95	IU-56-15	34.45m	37.50m	3.05m	0.003	
		99	IU-56-16	37.50m	40.55m	3.05m	0.002	
		99	IU-56-17	40.55m	43.60m	3.05m	0.004	
		95	IU-56-18	43.60m	46.65m	3.05m	0.10	0.10
46.65-52.75	NPAR(?), XCG; CLV/CL 60-75° 1% QZ 1% CA; tr PR; 0% AS, PY, CP.	85	IU-56-19	46.65m	50.00m	3.35m	0.006	
		85	IU-56-20	50.00m	52.75m	2.75m	0.003	



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PROPERTY... Ladner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.

DIP TEST		
Depth Metres	Angle	
	Reading	Corrected
	-70°	

HOLE No. IU-57 Sheet No. 1 of 2 Lat. 867.24
 Section Dep. 518.01
 Date Begun Bearing 98°
 Date Finished Elev. Collar 893.02

Total Depth 71.35m
 Logged By D. Griffith
 Claim Idaho
 Core Size A-Q

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz/ton	'LORING' Au oz/ton
0.0 - 1.90	MUCK	90	IU-57-1	1.90m	4.55m	2.65m	0.005	
		80	IU-57-2	4.55m	6.15m	1.60m	0.002	
1.90 - 8.90	NDWA, WAAR; BFD 35° CLV	70	IU-57-3	6.35m	8.90m	2.75m	0.004	
	35° → 50°; 4% QZ 11' CLV 5'	70	IU-57-4	8.90m	11.50m	2.60m	0.032	
	CA; 0.1% PR; 0% AS, PY, CP.	85	IU-57-5	11.50m	13.30m	1.80m	0.18	
		80	IU-57-6	13.30m	14.70m	1.40m	0.060	
8.90 - 21.65	FLWA1, CLSH 20°; 10% QZ 10'	95	IU-57-7	14.70m	17.85m	3.15m	0.066	
	260°, 2% CA; 4% AS; 0.5%	75	IU-57-8	17.85m	21.65m	3.80m	0.024	
	PR; 4% (0-4%) CP; 0.3% PY.	95	IU-57-9	21.65m	23.40m	1.75m	0.14	
		90	IU-57-10	23.40m	25.10m	1.70m	0.37	
21.65 - 32.75	FLWA1, CLSH 2, BXXX CRAP;	99	IU-57-11	25.10m	26.70m	1.60m	0.098	
	L CLV 60°; 20% QZ 10'	99	IU-57-12	26.70m	28.15m	1.45m	0.18	
	2 60°; 2% CA; 0.6% AS;	99	IU-57-13	28.15m	29.45m	1.30m	0.24	
	2.0% PR; 0.5% PY; 4% (0-0.1%) CP	85	IU-57-14	29.45m	31.00m	1.55m	0.10	
		85	IU-57-15	31.00m	32.75m	1.75m	0.062	
32.75 - 71.35	MBCGF, CHFR, WAAR. BFD	95	IU-57-16	32.75m	35.65m	2.90m	0.021	
	0° - 90°; 2% QZ 40° - 10°	99	IU-57-17	35.65m	38.40m	2.75m	0.045	
	2% CA; 0.1% PR; 4% (0-0.1%) CP;	70	IU-57-18	38.40m	40.70m	2.30m	0.002	
	0% PY, AS.	99	IU-57-19	40.70m	44.45m	3.75m	0.003	
		99	IU-57-20	44.45m	47.00m	2.55m	0.002	
		99	IU-52-21	47.00m	49.75m	2.75m	0.002	



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PROPERTY Lodner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.

DIP TEST		
Depth	Angle	
Metres	Reading	Corrected
	0	
	±0	

HOLE No. IU-58 Sheet No. 1 of 2 Lot. 868.47
 Section Dep. 519.77
 Date Begun Bearing 90°
 Date Finished Elev. Collar 894.59

Total Depth 60.75m
 Logged By D. Griffith
 Claim Idaho
 Core Size A.Q.

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz./ton	'LORING' Au oz./ton
0.0-20.45	NDWAF, CLSHZ, FLWA1, LIWAF(?);	80	IU-58-1	0.00m	3.15m	3.15m	0.41	
	L CLV 50°-70°; 4% (2% -	90	IU-58-2	3.15m	5.80m	2.65m	0.025	
	25%) QZ CLV 20°; 2%	80	IU-58-3	5.80m	8.75m	2.95m	0.030	
	CA; 0.1% AS; 0.3% PR; trc	80	IU-58-4	8.75m	12.10m	3.35m	0.065	
	PY; trc (0% trc) CP.	80	IU-58-5	12.10m	14.30m	2.20m	0.11	
		80	IU-58-6	14.30m	17.40m	3.10m	0.016	
		80	IU-58-7	17.40m	20.45m	3.05m	0.051	
20.45-27.05	WAPRN, BDAR; BED 0°-50°; 1%	90	IU-58-8	20.45m	23.50m	3.05m	0.032	
	QZ 35°-20°; 3% CA; 0.1% PR;	80	IU-58-9	23.50m	27.05m	3.55m	0.010	
	0% AS, PY, CP	70	IU-58-10	27.05m	28.95m	1.90m	0.15	
		90	IU-58-11	28.95m	30.50m	1.55m	0.022	
27.05-35.50	CLSHZ, FLWA1, BXQZ; CLV /	85	IU-58-12	30.50m	32.30m	1.80m	0.040	
	CL 55°-70°; 10% QZ	90	IU-58-13	32.30m	33.85m	1.55m	0.14	
	CLV; 2% CA; 1.0% (0.7-3.0%)	80	IU-58-14	33.85m	35.50m	1.65m	0.028	
	AS; 1.2% PR; 0.05% CP;	80	IU-58-15	35.50m	37.45m	1.95m	0.005	
	trc PY	90	IU-58-16	37.45m	39.45m	2.00m	0.060	
		80	IU-58-17	39.45m	43.30m	3.85m	0.11	
35.50-60.75	LIWAF, WAPRN; BED / CLV /	99	IU-58-18	43.30m	46.05m	2.75m	0.002	
	L CL 60°-70°; 3% QZ	90	IU-58-19	46.05m	49.20m	3.15m	0.005	
	BED; 1% CA; trc PR; 0%	95	IU-58-20	49.20m	52.95m	3.75m	0.004	
	AS, PY, CP							



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PROPERTY Lodner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.

DIP TEST		
Depth	Angle	
Metres	Reading	Corrected
	+43°	

HOLE No. IU-59 Sheet No. 1 of 1 Lat. 858.44
 Section Dep. 519.11
 Date Begun Bearing 90°
 Date Finished Elev. Collar. 895.69

Total Depth 30.20m
 Logged By D. Griffith
 Claim Idaho
 Core Size A.Q.

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz/ton	'LORING' Au oz/ton
0.0 - 17.10	FLUVA; L CLV / L CL 65° -	80	IU-59-1	0.00m	1.20m	1.20m	0.052	
	70°; 10% (3% - 70%) QZ 40°	85	IU-59-2	1.20m	3.00m	1.80m	0.42	
	& 70°; fr CA; 0.1% AS; 0.3% PR;	75	IU-59-3	3.00m	4.50m	1.50m	0.21	
	0.5% (0.1% - 3.0%) PY; 0% CP.	75	IU-59-4	4.50m	6.65m	2.15m	0.33	
		75	IU-59-5	6.65m	8.85m	2.20m	0.085	
		90	IU-59-6	8.85m	11.25m	2.40m	0.092	
		90	IU-59-7	11.25m	14.10m	2.85m	0.077	
		99	IU-59-8	14.10m	16.80m	2.70m	0.040	
		99	IU-59-9	16.80m	17.65m	0.85m	0.082	
		95	IU-59-10	17.65m	19.10m	1.45m	0.064	
19.10 - 27.90	QZBX, FLUVA; GR; 40%	99	IU-59-11	19.10m	20.45m	1.35m	0.009	
	QZ; fr CA; fr (0-0.1%) AS;	99	IU-59-12	20.45m	22.10m	1.65m	0.017	
	0.2% PR; 0.3% PY; 0% CP	99	IU-59-13	22.10m	23.85m	1.75m	0.011	
		85	IU-59-14	23.85m	25.35m	1.50m	0.003	
		85	IU-59-15	25.35m	26.80m	1.45m	0.036	
		70	IU-59-16	26.80m	27.90m	1.10m	0.023	
27.90 - 30.20	NPAR. BED 40° - 0°; 1% QZ	95	IU-59-17	27.90m	30.20m	2.30m	0.008	
	1% BED; 1% CA; 0% AS, PR,							
	PY, CP.							



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Diamond Drill Record CAROLIN MINES LTD.

HOLE No. IU-61 Sheet No. 1 of 2 Lat. 866.55
Section Dep. 516.30
Date Begun Bearing 270°
Date Finished Elev. Collar 893.02

Total Depth 53.95
Logged By D. Griffith
Claim Idaho
Core Size A.Q.

PROPERTY Ladner Cr., IDAHO ZONE

DIP TEST		
Depth	Angle	
Metres	Reading	Corrected

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz/ton	'LORING' Au oz/ton
0.0-1.50	MUCK	65	IU-61-1	1.50m	5.80m	4.30m	0.003	
		95	IU-61-2	5.80m	8.45m	2.65m	0.018	
1.50-16.10	CLSH2(?), FLWAF; L CLV/L	99	IU-61-3	8.45m	9.80m	1.35m	0.033	
	CL 60°; L CL 0°; 4% QZ	95	IU-61-4	9.80m	12.35m	2.55m	0.004	
	11 CLV; 1% CP; fr AS; 0.11	95	IU-61-5	12.35m	14.85m	2.50m	0.007	
	PR; fr (0-tr) CP; 0.1 PY	99	IU-61-6	14.85m	16.10m	1.25m	0.009	
16.10-53.95	FLWAF, CLSH2, FLWAF, MDWAF;	99	IU-61-7	16.10m	17.40m	1.30m	0.083	
	L CL ~ GR; 12% QZ	95	IU-61-8	17.40m	19.85m	2.45m	0.058	
	UPR, 60° ~ 0°; fr CA	99	IU-61-9	19.85m	20.95m	1.10m	0.019	
	0.79 AS; 2.2% PR; 0.11 PY	99	IU-61-10	20.95m	22.30m	1.35m	0.24	
	0.7 CP	99	IU-61-11	22.30m	23.55m	1.25m	0.077	
		99	IU-61-12	23.55m	25.00m	1.45m	0.15	
		99	IU-61-13	25.00m	26.40m	1.40m	0.18	
		99	IU-61-14	26.40m	27.80m	1.40m	0.29	
		99	IU-61-15	27.80m	29.15m	1.35m	0.066	
		99	IU-61-16	29.15m	30.50m	1.35m	0.038	
		99	IU-61-17	30.50m	31.85m	1.35m	0.051	
		99	IU-61-18	31.85m	33.10m	1.25m	0.19*	
		99	IU-61-19	33.10m	34.30m	1.20m	0.19*	
		80	IU-61-20	34.20m	35.80m	1.50m	0.073	
		* IU-61-18 & 19 mixed during preparation						



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PROPERTY... Ladner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.

DIP TEST		
Depth Metres	Angle	
	Reading	Corrected

HOLE No. IU-62 Sheet No. 1 of 1 Lat. 866.532
 Section..... Dep. 515.704
 Date Begun..... Bearing.....
 Date Finished..... Elev. Collar. 893.868

Total Depth..... 54.00m
 Logged By... D. Griffith
 Claim..... Idaho
 Core Size... A.Q.

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz./ton	'LORING' Au oz./ton
00 - 1.50	MUCK	70	IU-62-1	1.50m	4.20m	2.70m	0.004	
		85	IU-62-2	4.20m	7.05m	2.85m	0.002	
1.50 - 54.00	MMA, WMA, LUMAF (?), NDWAF; BED 15° & VAR. 17. QZ 10° - 50° 17" CP; tr. PR; O.S. AS, PY, CP.	99	IU-62-3	7.05m	9.35m	2.30m	0.002	
		95	IU-62-4	9.35m	12.10m	2.75m	0.002	
		95	IU-62-5	12.10m	14.70m	2.60m	0.003	
		95	IU-62-6	14.70m	17.65m	2.95m	< 0.002	
		99	IU-62-7	17.65m	20.45m	2.80m	< 0.002	
		99	IU-62-8	20.45m	23.20m	2.75m	0.002	
		95	IU-62-9	23.20m	26.10m	2.90m	0.003	
		99	IU-62-10	26.10m	28.55m	2.45m	0.002	
		90	IU-62-11	28.55m	31.40m	2.85m	0.002	
		70	IU-62-12	31.40m	34.90m	3.50m	0.002	
		99	IU-62-13	34.90m	37.50m	2.60m	0.004	
		95	IU-62-14	37.50m	40.30m	2.80m	0.010	
		95	IU-62-15	40.30m	42.80m	2.50m	0.004	
		99	IU-62-16	42.80m	44.90m	2.10m	< 0.002	
		95	IU-62-17	44.90m	47.50m	2.60m	0.009	
		95	IU-62-18	47.50m	51.10m	3.60m	0.003	
		99	IU-62-19	51.10m	54.00m	2.90m	0.004	



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PROPERTY Lodner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.

DIP TEST		
Depth Metres	Angle	
	Reading	Corrected

HOLE No. IU-63 Sheet No. 1 of 1 Lat. 866,623
 Section Dep. 515,588
 Date Begun Bearing
 Date Finished Elev. Collar

Total Depth 57.40m
 Logged By D. Griffith
 Claim
 Core Size

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz/ton	'LORING' Au oz/ton
0.0 - 8.85	NDAR NDAR, NDUMF. CLV / SE (?) 30°	80	IU-63-1	0.00m	3.05m	3.05m	0.006	
	45° 47. Qz PAR CLV ~ 0° 27. CA	80	IU-63-2	3.05m	6.10m	3.05m	0.019	
	trc AS, trc PR; 07. PY CP	99	IU-63-3	6.10m	8.85m	2.75m	0.005	
8.85 - 20.75	NDAR (?); BED 40° - 60° CLV 40° - 60°	99	IU-63-4	8.85m	11.60m	2.75m	0.004	
	27. Qz 10° & 11 CLV; 27. CA	80	IU-63-5	11.60m	14.65m	3.05m	0.002	
	07. AS, PR, PY, CP	90	IU-63-6	14.65m	17.70m	3.05m	0.003	
		99	IU-63-7	17.70m	20.75m	3.05m	0.019	
20.75 - 23.30	CHER, Qz & FLUM. 307. Qz; 17. CA	95	IU-63-8	20.75m	22.25m	1.50m	0.002	
	0.17 AS; 0.57 PR; 07. PY, CP, GR	99	IU-63-9	22.25m	23.30m	1.05m	0.018	
23.30 - 57.40	XXAN; trc Qz VAR; 27. CA	99	IU-63-10	23.30m	26.85m	3.55m	0.003	
	07. AS, PR, PY, CP	95	IU-63-11	26.85m	29.90m	3.05m	< 0.002	
		90	IU-63-12	29.90m	33.40m	3.50m	0.002	
		99	IU-63-13	33.40m	36.10m	2.70m	< 0.002	
		99	IU-63-14	36.10m	39.00m	2.90m	< 0.002	
		99	IU-63-15	39.00m	42.05m	3.05m	< 0.002	
		99	IU-63-16	42.05m	45.30m	3.25m	< 0.002	
		99	IU-63-17	45.30m	48.95m	3.65m	< 0.002	
		99	IU-63-18	48.95m	52.80m	3.85m	0.003	
		99	IU-63-19	52.80m	55.85m	3.05m	< 0.002	
		99	IU-63-20	55.85m	57.40m	1.55m	< 0.002	



Cochrane Consultants Limited

PROPERTY: Ladner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.

DIP TEST		
Depth Metres	Angle	
	Reading	Corrected

HOLE No. IU-64 Sheet No. 1 of 2 Lat. 866.606
 Section Dep. 515.561
 Date Begun Bearing
 Date Finished Elev. Collar 895.964

Total Depth 60.05m
 Logged By D. Griffith
 Claim Idaho
 Core Size A.Q.

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz/ton	'LORING' Au oz/ton
0.0 - 5.75	BNDAR; BED 20-50°; CLV 50°;	85	IU-64-1	0.00m	2.80m	2.80m	0.006	
	2% QZ 0-30°; fr CA; fr PR;	95	IU-64-2	2.80m	5.75m	2.95m	0.12	
	0% AS, PY, CP.	85	IU-64-3	5.75m	8.80m	3.05m	0.048	
5.75 - 10.20	NPAR(?) MIPR; BED 40°; CLV	99	IU-64-4	8.80m	10.20m	1.40m	0.021	
	50°; 4% QZ 20°; 2% CA; 0.1% PR;	95	IU-64-5	10.20m	11.60m	1.40m	0.006	
	0% AS, PY, CP.	99	IU-64-6	11.60m	12.80m	1.20m	0.032	
10.20 - 18.90	QZVN, FLWAF; BED 1 CLV	90	IU-64-7	12.80m	14.35m	1.55m	0.015	
	35°-50°; 40% QZ VAR;	99	IU-64-8	14.35m	15.70m	1.35m	0.013	
	2% CA; 0.2% AS; 0.5% PR;	99	IU-64-9	15.70m	17.00m	1.30m	0.048	
	0.2% PY; 0% CP.	95	IU-64-10	17.00m	18.30m	1.30m	0.004	
		65	IU-64-11	18.30m	18.80m	0.50m	0.027	
18.90 - 60.05	XYANF, XYAN 4% QZ 50°	96	IU-64-12	18.80m	22.25m	3.45m	0.007	
	10°; 2% CA; fr (0-fr) PR;	99	IU-64-13	22.25m	25.30m	3.05m	0.003	
	0% AS, PY, CP.	99	IU-64-14	25.30m	28.35m	3.05m	0.004	
		99	IU-64-15	28.35m	31.40m	3.05m	0.002	
		99	IU-64-16	31.40m	34.15m	2.75m	< 0.002	
		95	IU-64-17	34.15m	37.20m	3.05m	< 0.002	
		99	IU-64-18	37.20m	40.25m	3.05m	< 0.002	
		99	IU-64-19	40.25m	43.30m	3.05m	< 0.002	
		99	IU-64-20	43.30m	46.35m	3.05m	0.003	



Cochrane Consultants Limited

PROPERTY... Ladner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.

DIP TEST		
Depth Metres	Angle	
	Reading	Corrected
	+65	

HOLE No. IU-65 Sheet No. 1 of 1 Lot 866.660
 Section Dep. 515.984
 Date Begun Bearing 270°
 Date Finished Elev. Collar 896.359

Total Depth 46.65m
 Logged By D. Griffith
 Claim Idaho
 Core Size A-Q

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz/ton	'LORING' Au oz/ton
0.0 - 4.25	XYAR(?) CHER. LSE(?) 77 QZ 50% 0° 3% CA, 0.17 PY, 0.15 PR, CP	60	IU-65-1	0.00m	4.25m	4.25m	<0.002	
		65	IU-65-2	4.25m	8.15m	3.90m	0.072	
		99	IU-65-3	8.15m	9.05m	0.90	0.057	
4.25 - 13.50	FLWRP, QZUN, NDWR(?) 25% QZ 3% CA, 0.27 AS, 0.27 PR, 0.17 PY, 0.1 CP	99	IU-65-4	9.05m	10.85m	1.80m	0.028	
		99	IU-65-5	10.85m	12.15m	1.30m	0.32	
		99	IU-65-6	12.15m	13.50m	1.35m	0.10	
13.50 - 28.80	NPRR(?) CRAP, 4% (2% - 25%) QZ VPR, 5% (4% - 10%) CA, fr (0 - fr) PY, 0.15 PR, CP	95	IU-65-7	13.50m	14.25m	0.75	0.004	
		75	IU-65-8	14.25m	17.70m	3.45m	0.003	
		75	IU-65-9	17.70m	20.75m	3.05m	0.010	
		60	IU-65-10	20.75m	23.80m	3.05m	0.006	
28.80		80	IU-65-11	23.80m	25.30m	1.50m	<0.002	
		50	IU-65-12	25.30m	28.80m	3.50m	0.006	
28.80 - 46.65	CHER(?) MPRR, 2% (0% - 15%) QZ 2% CA, fr (0 - fr) AS, 0.17 PR, fr (0 - fr) CP, 0.1 PY	80	IU-65-13	28.80m	31.40m	2.60m	0.030	
		80	IU-65-14	31.40m	34.45m	3.05m	0.040	
		85	IU-65-15	34.45m	36.00m	1.55m	0.018	
		99	IU-65-16	36.00m	39.00m	3.00m	0.007	
		99	IU-65-17	39.00m	42.00m	3.00m	0.002	
		65	IU-65-18	42.00m	46.65m	4.65m	<0.002	



Cochrane Consultants Limited

PROPERTY: Lodner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.

DIP TEST		
Depth	Angle	
Metres	Reading	Corrected
	-28°	

HOLE No. IU-66 Sheet No. 1 of 3 Lat. 835.88
 Section Dep. 510.18
 Date Begun Bearing 180°
 Date Finished Elev. Collar 907.00

Total Depth 99.70m
 Logged By D. Griffith
 Claim Idaho
 Core Size A.Q.

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz/ton	'LORING' Au oz/ton
00-14.45	NDWAF; L CLV / L CL 55°; 5%	90	IU-66-1	0.00m	3.35m	3.35m	0.020	
	QZ II CLV ~10°; trc CA; trc	99	IU-66-2	3.35m	5.75m	2.40m	0.008	
	(0-trc) AS; 0.17 PR; trc (0-trc)	90	IU-66-3	5.75m	7.80m	2.05m	0.051	
	PY; 0% CP.	85	IU-66-4	7.80m	11.00m	3.20m	0.009	
		99	IU-66-5	11.00m	12.40m	1.40m	0.019	
		90	IU-66-6	12.40m	14.45m	2.05m	0.011	
14.45-7350	FLWAF, NXWAF, ABCB, CLSHZ;	99	IU-66-7	14.45m	16.17m	1.70m	0.13	
	CLV / L CL 55°; 8% QZ II CLV	99	IU-66-8	16.15m	16.90m	0.75m	0.059	
	trc CA; 0.37 AS; 0.87 PR.	99	IU-66-9	16.90m	18.15m	1.25m	0.090	
	trc (0-trc) CP; 0.47 (0-30%)	99	IU-66-10	18.15m	20.05m	1.90m	0.30	
	PY.	99	IU-66-11	20.05m	21.65m	1.60m	0.25	
		99	IU-66-12	21.65m	23.15m	1.50m	0.33	
		99	IU-66-13	23.15m	24.90m	1.75m	0.21	
		95	IU-66-14	24.90m	26.75m	1.85m		
		95	IU-66-15	26.75m	28.80m	2.05m	0.033	
		99	IU-66-16	28.80m	30.30m	1.50m	0.12	
		99	IU-66-17	30.30m	32.05m	1.75m	0.28	
		99	IU-66-18	32.05m	33.85m	1.80m	0.29	
		99	IU-66-19	33.85m	35.35m	1.50m	0.12	
		99	IU-66-20	35.35m	36.90m	1.55m	0.074	



Cochrane Consultants Limited

PROPERTY: Ladner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.

DIP TEST		
Depth	Angle	
Metres	Reading	Corrected

HOLE No. IU-66 Sheet No. 2 of 3 Lat. 835.88
 Section Dep. 510.18
 Date Begun Bearing 180
 Date Finished Elev. Collar 900.00

Total Depth 99.00m
 Logged By D. Griffith
 Claim Idaho
 Core Size A.Q.

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz/ton	'LORING' Au oz/ton
		99	IU-66-21	36.90m	38.40m	1.50m	0.056	
		99	IU-66-22	38.40m	39.95m	1.55m	0.041	
		99	IU-66-23	39.95m	41.45m	1.50m	0.34	
		99	IU-66-24	41.45m	43.00m	1.55m	0.098	
		99	IU-66-25	43.00m	44.50m	1.50m	0.21	
		99	IU-66-26	44.50m	46.05m	1.55m	0.12	
		99	IU-66-27	46.05m	47.55m	1.50m	0.39	
		99	IU-66-28	47.55m	49.10m	1.55m	0.14	
		99	IU-66-29	49.10m	50.60m	1.50m	0.035	
		99	IU-66-30	50.60m	52.15m	1.55m	0.044	
		99	IU-66-31	52.15m	53.65m	1.50m	0.048	
		99	IU-66-32	53.65m	55.20m	1.55m	0.24	
		99	IU-66-33	55.20m	56.70m	1.50m	0.20	
		99	IU-66-34	56.70m	58.25m	1.55m	0.38	
		99	IU-66-35	58.25m	59.75m	1.50m	0.22	
		99	IU-66-36	59.75m	61.30m	1.55m	0.11	
		99	IU-66-37	61.30m	62.80m	1.50m	0.24	
		99	IU-66-38	62.80m	64.35m	1.55m	0.18	
		99	IU-66-39	64.35m	65.85m	1.50m	0.047	
		99	IU-66-40	65.85m	67.80m	1.55m	0.19	



Cochrane Consultants Limited

PROPERTY: Ladner Cr., IDAHO ZONE

Diamond Drill Record CAROLIN MINES LTD.

DIP TEST		
Depth Metres	Angle	
	Reading	Corrected
	28°	

HOLE No. IU-66 Sheet No. 3 of 3 Lat. 835.88
 Section Dep. 510.18
 Date Begun Bearing 180°
 Date Finished Elev. Collar 900.00

Total Depth 99.70m
 Logged By D. Griffith
 Claim Idaho
 Core Size A.Q.

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz/ton	'LORING' Au oz/ton
		99	IU-66-41	67.40m	68.90m	1.50m	0.17	
		99	IU-66-42	68.90m	70.45m	1.55m	0.16	
		99	IU-66-43	70.45m	71.45m	1.50m	0.19	
		99	IU-66-44	71.95m	73.50m	1.55m	0.12	
7350 - 99.70	ND-AR, MXAR, MMAR, FL-AR(?) LUVA CLV 60°, 2% QZ CLV 0° fr CA: 0-1% (0-15%) PY; fr (0-15%) PY; 0% PS, CP.	99	IU-66-45	73.50m	76.50m	3.00m	0.005	
		99	IU-66-46	76.50m	79.55m	3.05m	0.009	
		99	IU-66-47	79.55m	82.60m	3.05m	0.002	
		95	IU-66-48	82.60m	85.80m	3.20m	0.004	
		99	IU-66-49	85.80m	88.15m	2.35m	0.020	
		99	IU-66-50	88.15m	89.60m	1.45m	0.045	
		99	IU-66-51	89.60m	91.20m	1.60m	0.027	
		99	IU-66-52	91.20m	93.60m	2.40m	0.010	
		99	IU-66-53	93.60m	96.65m	3.05m	0.003	
		99	IU-66-54	96.65m	99.70m	3.05m	0.004	



Cochrane Consultants Limited

Diamond Drill Record CAROLIN MINES LTD.

HOLE No. IU-67... Sheet No. 1 of 1 Lat. 626.49
 Section Dep. 499.54
 Date Begun Bearing 90°
 Date Finished Elev. Collor. 959.62

Total Depth 48.15m
 Logged By D. Griffith
 Claim Idaho
 Core Size A.Q.

PROPERTY Lodner Cr., IDAHO ZONE

DIP TEST		
Depth Metres	Angle	
	Reading	Corrected
	+52°	

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz./ton	'LORING' Au oz./ton
0.0-17.45	NIDWAF, LINA; CLV 90° 2?	85	IU-67-1	0.00m	3.15m	3.15m	0.038	
	QZ CLV; trc CA; trc (0-0.2) PR;	95	IU-67-2	3.15m	6.10m	2.95m	0.004	
	trc (0-0.2) PY; 0? AS, CP	99	IU-67-3	6.10m	8.95m	2.85m	0.002	
		99	IU-67-4	8.95m	11.85m	2.90m	0.003	
		99	IU-67-5	11.85m	14.80m	2.15m	0.002	
		99	IU-67-6	14.80m	17.45m	2.65m	0.004	
17.45-29.90	QZVN, FLVPI, MARR; 1 CLV / 2 CL	99	IU-67-7	17.45m	20.00m	2.55m	0.023	
	70° 50% (21-75%) QZ; 0?	55	IU-67-8	20.00m	22.05m	2.05m	0.035	
	CA; trc AS; trc PR; trc (0-trc) PY;	85	IU-67-9	22.05m	23.55m	1.50m	0.060	
	0? CP.	85	IU-67-10	23.55m	25.10m	1.55m	0.10	
		90	IU-67-11	25.10m	26.60m	1.50m	0.060	
		95	IU-67-12	26.60m	28.05m	1.45m	0.24	
		95	IU-67-13	28.05m	29.90m	1.85m	0.065	
29.90-41.75	CLSHI; CLV/CL 85° 0? QZ; 2?	95	IU-67-14	29.90m	32.95m	3.05m	0.003	
	CA; 0? AS, PR; CP; PY.	90	IU-67-15	32.95m	36.00m	3.05m	< 0.002	
		90	IU-67-16	36.00m	38.80m	2.80m	< 0.002	
		90	IU-67-17	38.80,	41.75m	2.95m	< 0.002	
41.75-48.15	BIDPR, WMPR; BID / CLV / CL 55° -	80	IU-67-18	41.75m	44.80m	3.05m	0.006	
	85°; 2? QZ CLV 20°; trc	50	IU-67-19	44.80m	48.15m	3.35m	0.002	
	CA; trc (0-trc) AS; trc (0-trc) PR;							
	0? CP, PY.							



Cochrane Consultants Limited

Total Depth 38.40m
 Logged By D. Griffith
 Claim Idaho
 Core Size A.Q.

Diamond Drill Record CAROLIN MINES LTD.

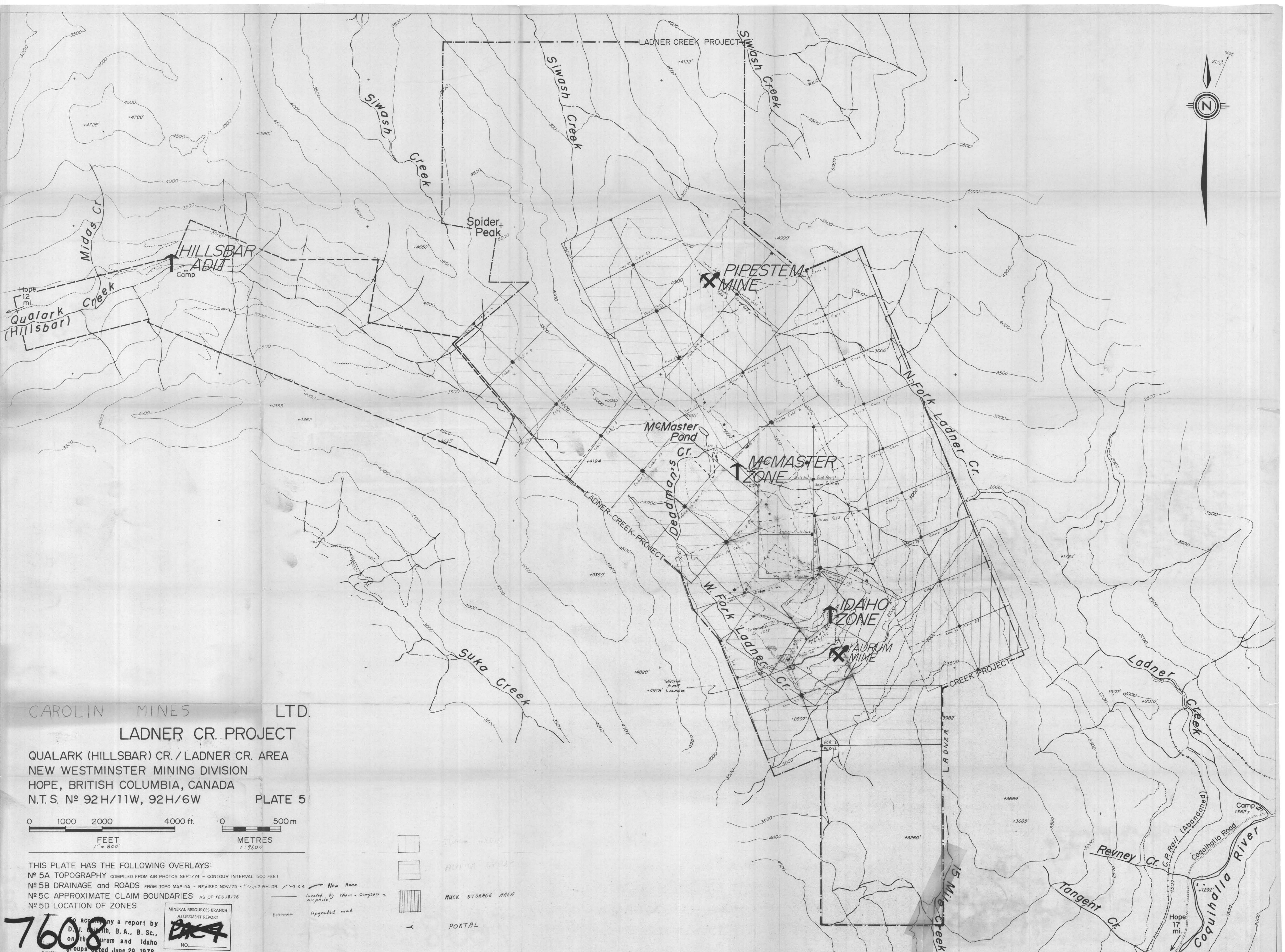
HOLE No. IU-68 Sheet No. 1 of 1 Lat. 867.47
 Section Dep. 519.77
 Date Begun Bearing 90°
 Date Finished Elev. Collar 894.39

PROPERTY Ladner Cr., IDAHO ZONE

DIP TEST

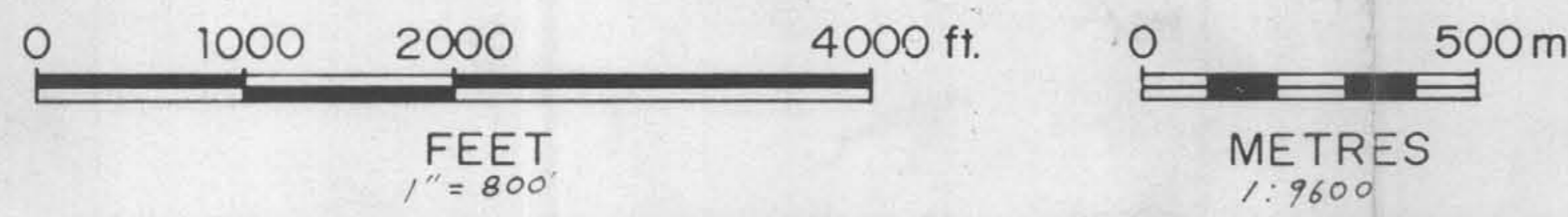
Depth Metres	Angle	
	Reading	Corrected
	+5°	

DEPTH	DESCRIPTION	CORE Recovery	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	'BONDAR' Au oz/ton	'LORING' Au oz/ton
0.0 - 28.40	DESTROYED	95	IU-68-1	28.40m	31.20m	2.80m	0.014	
		95	IU-68-2	31.20m	32.50m	1.30m	0.036	
28.40 - 32.50	NDWAF (?); CLV 65°; 27 Qz II	90	IU-68-3	32.50m	34.15m	1.65m	0.12	
	CLV, tr. CA; tr. PR; tr. CP; OI, AS, PY.	95	IU-68-4	34.15m	35.55m	1.40m	0.32	
		95	IU-68-5	35.55m	37.15m	1.60m	0.91	
32.50 - 37.15	Qz UN, FLWHI, XDWH (?); 30? Qz	90	IU-68-6	37.15m	38.40m	1.25m	0.058	
	@ 60° (?); 27 CA; O. 7. AS; 1.37.							
	PR; tr. LP; tr. PY.							
37.15 - 38.40	MAMM. CLV 65°, OI Qz, CA, AS, PR, CP, PY.							
38.40 →	ABANDONED							



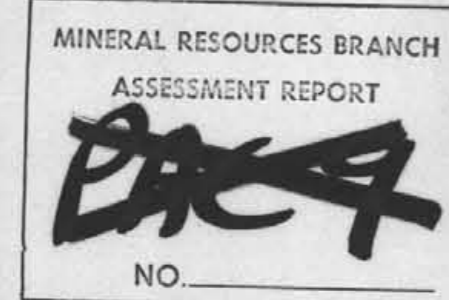
LADNER CR. PROJECT

QUALARK (HILLSBAR) CR. / LADNER CR. AREA
 NEW WESTMINSTER MINING DIVISION
 HOPE, BRITISH COLUMBIA, CANADA
 N.T.S. N° 92H/11W, 92H/6W PLATE 5



THIS PLATE HAS THE FOLLOWING OVERLAYS:

- N° 5A TOPOGRAPHY COMPILED FROM AIR PHOTOS SEPT/74 - CONTOUR INTERVAL 500 FEET
- N° 5B DRAINAGE and ROADS FROM TOPO MAP 5A - REVISED NOV/75 - 2 WH. DR. 4 X 4 New Road
- N° 5C APPROXIMATE CLAIM BOUNDARIES AS OF FEB/81/76 located by chain - compass - airplane
- N° 5D LOCATION OF ZONES



MINERAL RESOURCES BRANCH
 ASSESSMENT REPORT
 NO.

- New Road
- MUCK STORAGE AREA
- PORTAL
- Upgraded road

7608
 Accompany a report by
 D. J. Smith, B. A., B. Sc.,
 on the Aurum and Idaho
 groups dated June 29, 1978.



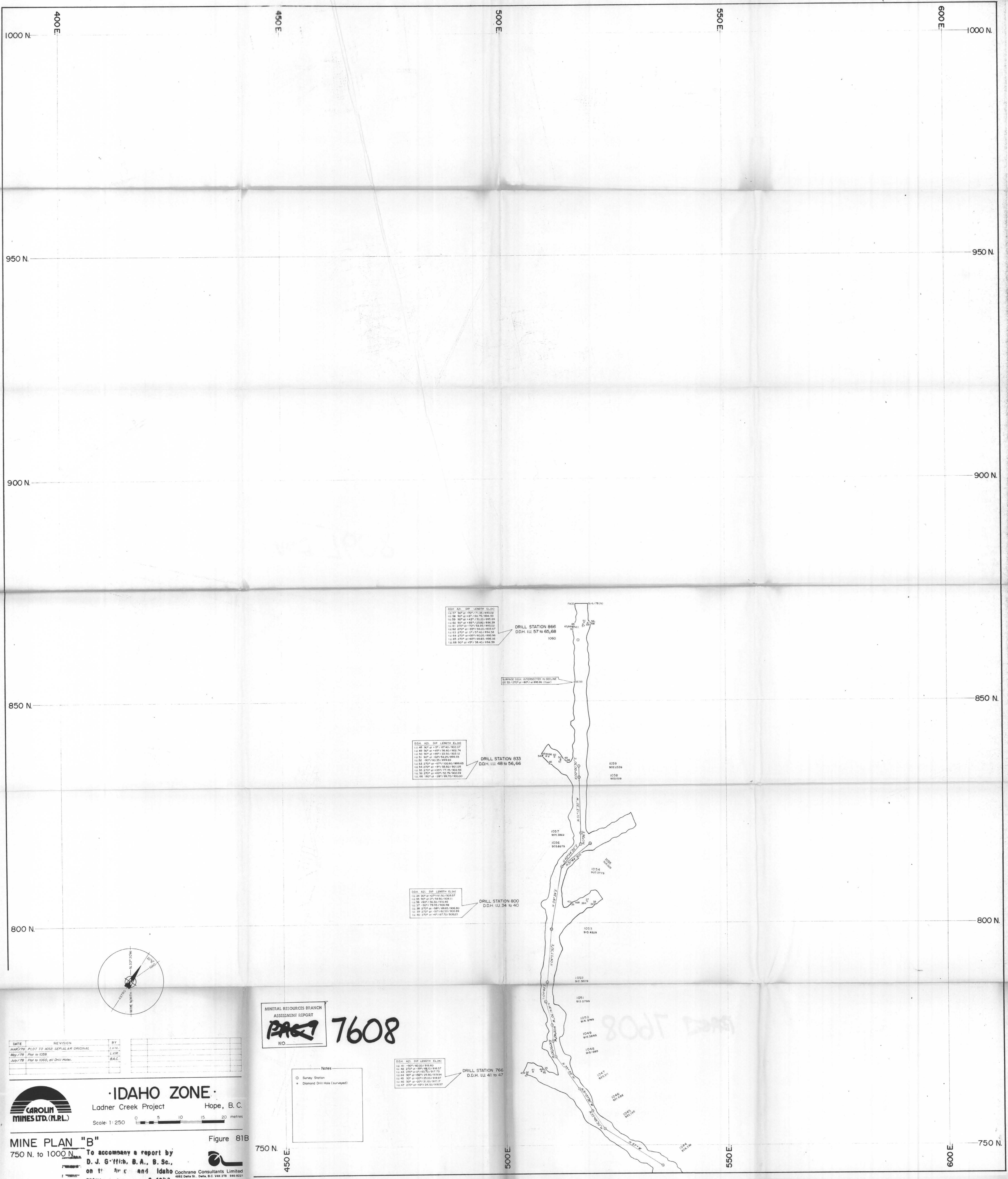
DATE	REVISION	BY
OCT 4/77	RE-PLLOT TO FACE	B.A.C.
DEC 5/77	@ LOTS @ DEFS. OK	D.M.C.
APRIL 7/77	PLLOT D.D.H. I.U. 11 to 33	L.V.M.

IDAHO ZONE
 Ladner Creek Project Hope, B.C.
 Scale: 1:250

MINE PLAN "A" Figure 67B
 500 N. to 750 N.
 To accompany a report by
D. J. Griffith, B. A., B. Sc.
 on the Aurum and Idaho
 groups dated June 1977
 Consultants Limited
 1177 Main St. Vancouver, B.C. V6K 2T8 644-2221

MINERAL RESOURCES BRANCH
 ASSESSMENT REPORT
7608
 NO.

Notes
 ○ Survey Station
 ○ Diamond Drill Hole (surveyed)



DDH AZI. DIP LENGTH ELIM

LU 57 30° at +207.71/32.883.00
LU 58 30° at +187.62/32.883.00
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LU 68 30° at +187.62/32.883.00

DDH AZI. DIP LENGTH ELIM

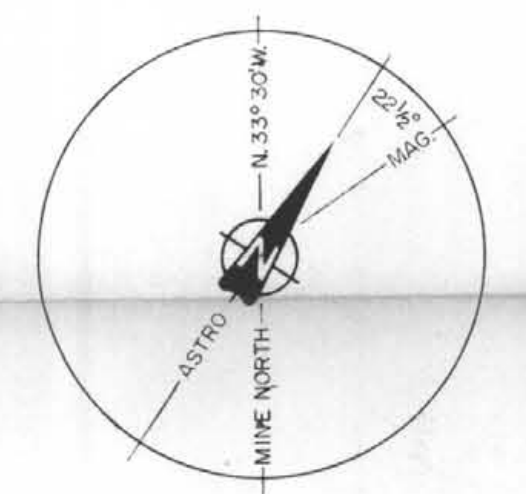
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DDH AZI. DIP LENGTH ELIM

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LU 44 30° at +187.62/32.883.00
LU 45 30° at +187.62/32.883.00
LU 46 30° at +187.62/32.883.00
LU 47 30° at +187.62/32.883.00

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
PAGE 7608
NO

Notes
○ Survey Station
● Diamond Drill Hole (surveyed)



DATE	REVISION	BY
MAR/79	PLD TO 1000: SEPARATE ORIGINAL	L.V.M.
MAY/79	PLD TO 1000	B.A.C.
JUN/79	PLD TO 1000, all Drill Holes	

IDAHO ZONE
Ladner Creek Project Hope, B.C.
Scale: 1:250

MINE PLAN "B"
750 N. to 1000 N.
To accompany a report by
D. J. Giffith, B.A., B.Sc.
on the **Arctic and Idaho**
group **with date 29, 1973.**
Cochrane Consultants Limited
4492 Delta St. Delta, B.C. V4K 2T8 246-2221

Figure 81B