REPORT ON 1980 DRILLING

RED DOG CLAIMS

LIARD MINING DIVISION
NTS 104G/9W
57°41.3' North; 130°29.5' West

Owner of Claims: Placer Development Ltd.

Operator: Consolidated Silver Ridge Mines Ltd.

Consultant: G.A. Noel & Associates, Inc.

by

G.A. NOEL, P.Eng.

February 10, 1981

G. A. NOEL & ASSOCIATES INC.
CONSULTING GEOLOGISTS

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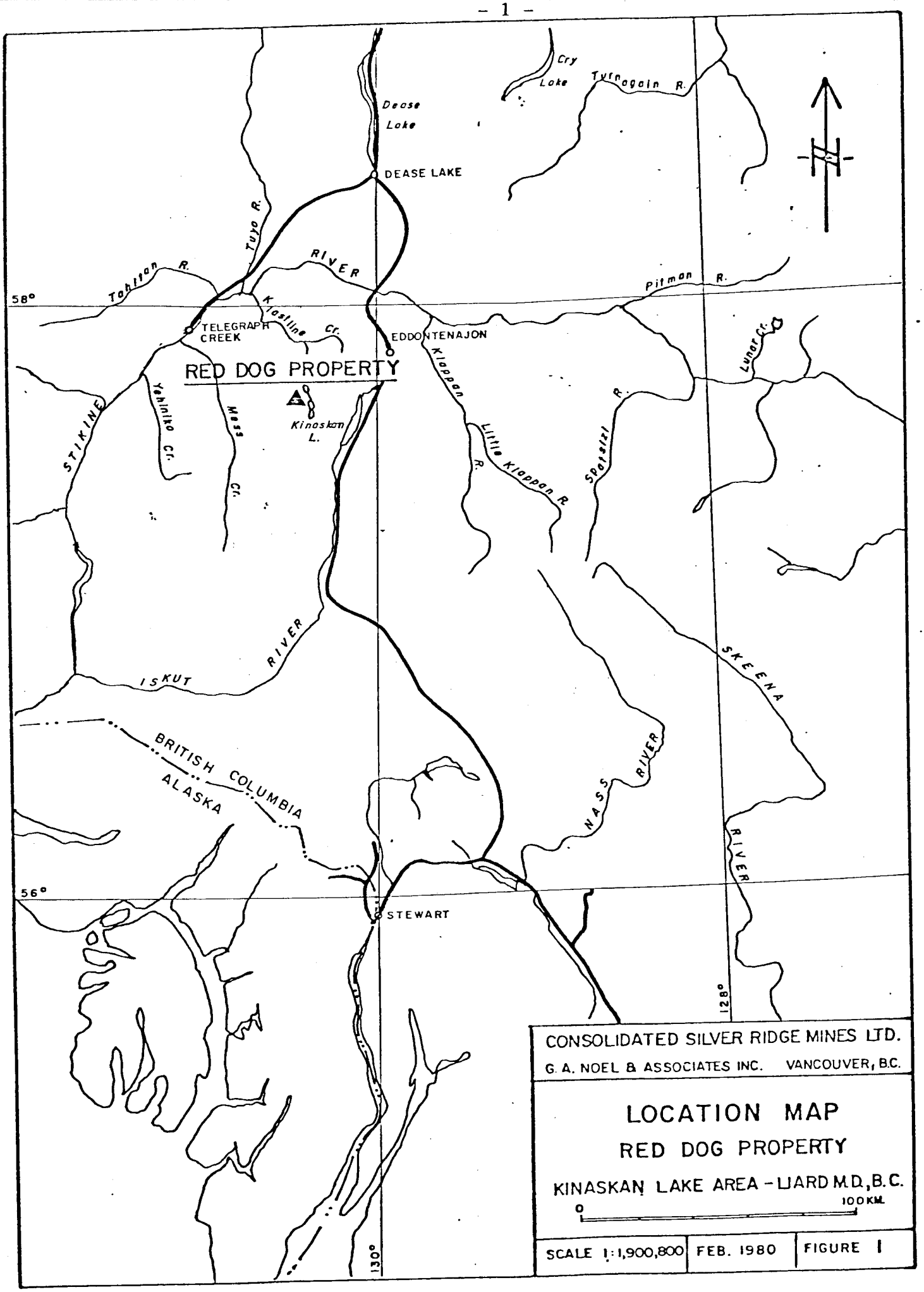
Drill Logs


Cry Lake
Tyrnagain R.
Deose Lake
DEASE LAKE
Tuyo R.
RIVER
Tahltan R.
Pitman R.
58°
TELEGRAPH CREEK
Klastline Cr.
EDDONTENAJON
RED DOG PROPERTY
Kinaskan L.
Lunar Cr.
Klappan R.
Little Klappan R.
Spatsizi R.
STIKINE
Yehiniko Cr.
Moss Cr.
ISKUT
RIVER
SKEENA
BRITISH COLUMBIA
ALASKA
NASS RIVER
RIVER
56°
STEWART
130°
128°
CONSOLIDATED SILVER RIDGE MINES LTD.
G. A. NOEL & ASSOCIATES INC. VANCOUVER, B.C.
LOCATION MAP
RED DOG PROPERTY
KINASKAN LAKE AREA - LIARD M.D., B.C.
0
100 KM.
SCALE 1:1,900,800
FEB. 1980
FIGURE 1

INTRODUCTION

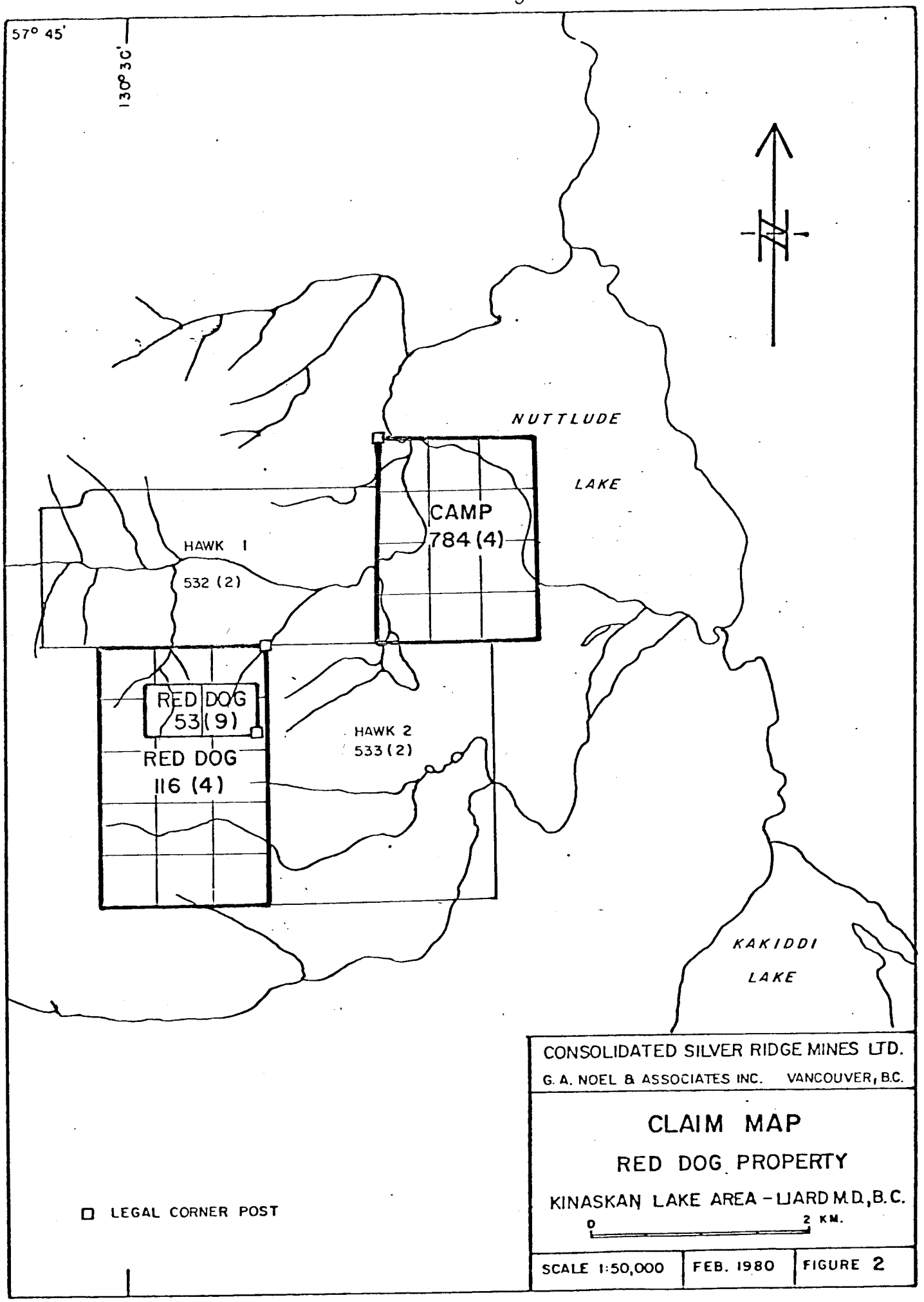
From June 11 to October 18, 1980, 18 N.Q. diamond drill holes totalling 2336 metres were drilled on the Red Dog property. This drilling was supervised by Roy D. Hogarth of Northair Mines Ltd. and G.A. Noel of G.A. Noel & Associates, Inc. for Consolidated Silver Ridge Mines Ltd. The Red Dog property is located on an eastern spur of Mt. Edziza about four kilometres southwest of Nuttlude Lake and 35 km west-southwest of Iskut Village which is on the Stewart-Cassiar road. The property can be reached from Iskut or Dease Lake by float aircraft to the camp on the west side of Nuttlude Lake. A six kilometre 4-wheel drive road extends southwesterly from the camp to the drilling area.

PROPERTY AND OWNERSHIP

The property consists of two claims which are located in the Liard Mining Division, B.C. and are shown in Figure 2. The claims are more particularly described as follows:

Claim Name	Claim Map	Units	Record No.	Expiry Date
Red Dog	104G/9W	2	53	Sept.30, 1990
Red Dog	104G/9W	15	116	April 9, 1990

The Red Dog claims are held by Placer Development Ltd. for the Racicot Syndicate which consisted of Placer Development Ltd., El Paso Mining & Milling Company and Arnold Racicot. The property was optioned in May 1978 to Consolidated Silver Ridge Mines Ltd., 1450 - 625 Howe Street, Vancouver, B.C. The adjoining Pink and Red claims and the Camp claim (see Figure 2) are also held by Consolidated Silver Ridge Mines Ltd.


57° 45'
130° 30'
NUTTLUDE
LAKE
CAMP
784 (4)
HAWK 1
532 (2)
RED DOG
53 (9)
RED DOG
116 (4)
HAWK 2
533 (2)
KAKIDDI
LAKE
LEGAL CORNER POST
CONSOLIDATED SILVER RIDGE MINES LTD.
G. A. NOEL & ASSOCIATES INC. VANCOUVER, B.C.
CLAIM MAP
RED DOG PROPERTY
KINASKAN LAKE AREA - LIARD M.D., B.C.
0
2 KM.
SCALE 1:50,000
FEB. 1980
FIGURE 2

HISTORY

The Spectrum claims were staked in 1969 by Sparton Explorations Ltd., to cover a prophyry-type copper discovery about four kilometres southwest of Nuttlude Lake. Geological mapping and geophysical and geochemical surveys were done in 1970 by Mitsui Mining and Smelting Company Ltd. The property was optioned by Imperial Oil Limited in 1971 and additional geological, geochemical and geophysical surveys were done in 1971-2. In 1973, Imperial Oil completed 450 metres of B.Q. drilling in four holes. The Red Dog claim was staked for the Racicot Syndicate in September 1975. In 1977, Consolidated Silver Ridge Mines Ltd. negotiated an option on the property and conducted geological mapping and a geochemical soil survey in 1978. In 1979, Silver Ridge undertook road building, bulldozer trenching and diamond drilling on the property. A total of 432 metres of B.Q. and 400 metres of N.Q. drilling in 10 holes were completed between July 8 and October 14, 1979.

1980 FIELDWORK

The 1980 fieldwork consisted essentially of diamond drilling and building drilling access roads although some backhoe trenching was done to assess the precious metal content of the talus area which had shown highly anomalous gold values in 1979. The fieldwork was supervised by R.D. Hogarth and G.A. Noel for Consolidated Silver Ridge Mines Ltd. Drilling mud was used continuously and core recovery and drilling progress were both considerably improved over the 1979 drilling. Holes were generally drilled to the east, though five holes, DDH-12, 13, 14, 15 & 23, were drilled to the west. The first

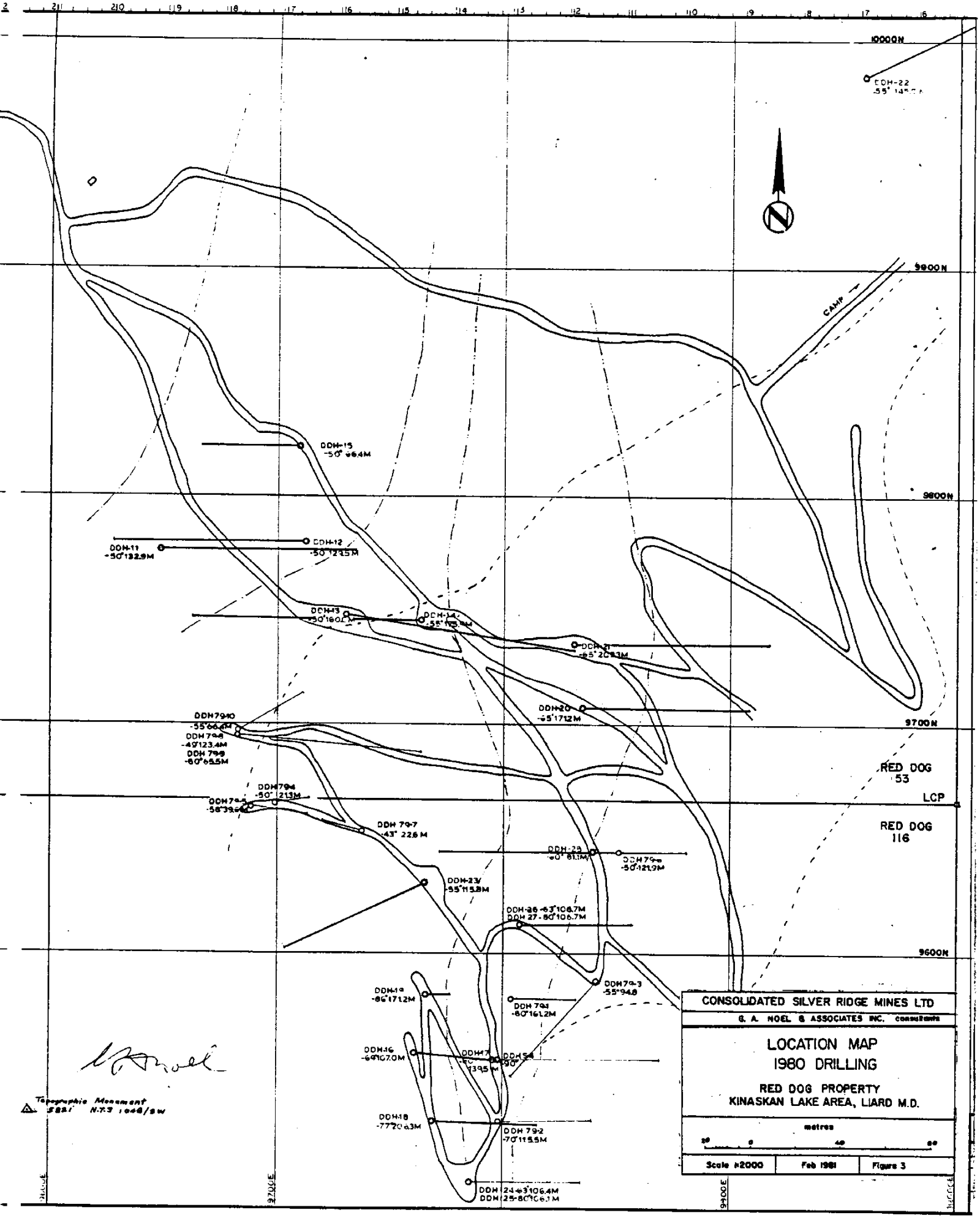
five holes DDH-11 through DDH-15 were drilled on the west side of the main dike, to follow up on several high grade intersections obtained in the 1979 drilling. Drill holes 16 through 28, except for DDH-22 and 23, were drilled on east-west sections which are spaced at about 30 metres, and all of these holes were drilled to the east. The following table summarizes the pertinent data for each of the 1980 drill holes.

Hole No.	Coordinates North	Coordinates East	Length (m)	Bearing	Dip	Collar Elev.(m) (approx.)	% Recovery
11	9776.3	9648.2	132.9	N88°E	-50°	1600	-
12	9780	9712	129.5	W	-50°	1585	-
13	9750	9708	160.0	S82°E	-50°	1610	-
14	9744.2	9768.4	175.9	W	-55°	1595	-
15	9821.5	9708	66.4	W	-50°	1590	34.6
16	9556	9761	161.8	S85°E	-69°30'	1675	80.9
17	9554	9795.7	135.9	E	-60°	1665	89.2
18	9526.5	9769.7	206.3	E	-77°30'	1672	86.1
19	9581.6	9766.3	171.2	E	-85°	1668	86.1
20	9706.5	9834.2	151.5	E	-65°	1585	98.3
21	9734.8	9829.6	203.3	E	-60°	1590	98.6
22	9984	9957	145.0	N65°E	-55°	1475	90.4
23	9631	9765	115.8	S65°W	-55°	1645	84.5
24	9500	9786	106.4	E	-63°	1645	88.3
25	9500	9786	106.1	E	-80°	1645	95.0
26	9613	9808	106.7	E	-63°	1640	98.4
27	9613	9808	106.4	E	-80°	1640	96.6
28	9645	9840	81.1	E	-58°	1610	93.0

DISCUSSION OF RESULTS

DDH-11

This hole was drilled to intersect the vein-type mineralization intersected in 1979 holes 4, 8 and 10. The hole intersected Edziza volcanic talus to 28.6 metres and deeply weathered volcanic (Upper Triassic) overburden to 39.6 metres where it had to be abandoned. Unfortunately the projected vein intersection was at 35-40 metres. The hole was largely in dacitic volcanics but cut a few dike-like bands of quartz monzonite,


10000N
9900N
9800N
9700N
9600N
3700E
3900E
CAMP
DDH-22
DDH-15
DDH-11
DDH-12
DDH-13
DDH-14
DDH-21
DDH-20
DDH 79-10
DDH 79-8
DDH 799
DDH 794
DDH 79-7
DDH-23
DDH 79-9
DDH-26
DDH 27
DDH 79-3
DDH-19
DDH 793
DDH-16
DDH-17
DDH-18
DDH 792
DDH 24
DDH 25
RED DOG 53
RED DOG 116
LCP
Topographic Monument
CONSOLIDATED SILVER RIDGE MINES LTD
G. A. NOEL & ASSOCIATES INC. consultants
LOCATION MAP
1980 DRILLING
RED DOG PROPERTY
KINASKAN LAKE AREA, LIARD M.D.
metres
Scale 1:2000
Feb 1981
Figure 3

with the widest section at 101.5-110.6 metres. The hole showed negligible gold values.

DDH-12

This hole was collared 64 metres east of hole 11 and drilled to the west to intersect the vein which was missed in hole 11. Talus and overburden were encountered to 37.1 metres with dacite and rhyodacite tuff and breccia cut by several narrow quartz monzonite dikes thereafter. A strong vein of brecciated dacite with 30% quartz-carbonate matrix and well mineralized with sphalerite, galena, arsenopyrite and pyrite as stringers and disseminations was intersected from 94.4 to 96.75 metres. This section assayed 0.07 oz/ton gold. The best intersection in this hole occurred from 64.3-65.2 metres in a small quartz monzonite dike. This section assayed .242 oz/ton gold and 0.617 oz/ton silver over the 0.9 metre length.

DDH-13

This hole was located about 65 metres S65°E of hole 11 and drilled easterly (S82°E) to cut across the main quartz monzonite dike and to intersect several high grade veins seen in a surface trench in the quartz monzonite east of the drill site. The hole encountered talus boulders and overburden to 34.7 metres, dacite to 47.2 metres, quartz monzonite to 136.6 metres and dacite to the end of the holes at 160 metres. No significant veins were encountered in either volcanics or intrusive. However, the hole showed persistent low grade gold values in the intrusive from 59-108.7 metres (49.7 metres) which averaged 0.024 oz/ton gold.

DDH-14

This hole was collared 62 metres east of hole 13 and drilled to the west to intersect the vein cut by holes 8 and 12. The hole was in overburden to 24.3 metres and dacite to 175.9 metres,

the end of the hole. It intersected a number of fault zones and narrow dikes of quartz monzonite. There were no vein intersections and only very low gold values were encountered.

DDH-15

This hole was collared at 42 metres N05°W of hole 12 and drilled to the west to intersect the vein cut in hole 12. The hole was in talus overburden to 48.5 metres and had to be abandoned at 66.4 metres due to jammed rods. The hole cut heavily weathered dacite and andesite as well as a quartz monzonite dike. This hole showed neglibible gold values.

DDH-16

Hole 16 was collared 43 metres west of 1973 drill hole S-4 and was drilled S85°E at -69°30' to develop an east-west section. This hole encountered overburden to 9.1 metres, quartz monzonite to 60.5 metres and rhyodacite tuff and tuff-breccia to the end of the hole at 107 metres. The section from 45.5 to 87.5 metres averaged .035 oz/ton gold over 42 metres. The best assay in this section was 0.254 oz/ton gold over 1.0 metre from 82.2 to 83.2 metres.

DDH-17

Hole 17 was collared 10 metres west of hole S-4 and drilled to the east at -60° to develop the section. The hole encountered overburden to 9.1 metres, andesite and dacite tuff and tuff-breccia with thin dikes of quartz monzonite to 56.4 metres and rhyodacite tuff and tuff-breccia to the end of the hole at 135.9 metres. The section from 9.1 to 50.5 metres averaged .037 oz/ton gold over 41.4 metres. The best assays were as follows: 47.5-

49.0 metres 0.468 oz/ton gold and 64.0-65.5 metres 0.344 oz/ton gold.

DDH-18

Hole 18 was collared 35 metres west of hole 79-2 and drilled east at -77°30' to develop this east-west section. The hole encountered overburden to 6.1 metres, andesite and dacite flows and tuffs to 23.5 metres, quartz monzonite to 63.0 metres and rhyodacite tuff and tuff-breccia to end of the hole at 206.3 metres. The section of the hole from 27 to 102 metres averaged .053 oz/ton gold over 75 metres. The best assays were as follows: 29.0-31.0 metres 0.177 oz/ton gold and 54.7-57.0 metres 0.658 oz/ton gold.

DDH-19

Hole 19 was collared 37 metres west of hole 79.1 and drilled to the east at -85° to develop the third east-west section. The hole encountered overburden to 11.9 metres, quartz monzonite to 99.7 metres and rhyodacite and dacite tuff and tuff-breccia to the end of the hole at 171.2 metres. The section from 33.5 to 117.0 metres averaged 0.037 oz/ton gold over 83.5 metres. The best assays from this hole were as follows: 33.5-35.0 metres 0.164 oz/ton gold, 54.0-55.5 metres 0.229 oz/ton gold, 101.4-102.4 metres 0.344 oz/ton gold and 102.4-103.4 metres 0.197 oz/ton gold.

DDH-20

Hole 20 was collared 67 metres N25°W of hole 6 and was drilled due east at -65° to develop a fourth east-west section. This hole encountered overburden to 6.1 metres, quartz monzonite to 32.3 metres, andesite and dacite to 51.8 metres and dacite

and rhyodacite tuff and tuff-breccia to the end of the hole at 151.5 metres. The section from 6.1 to 25.0 metres averaged .039 oz/ton gold for 18.9 metres. The best assays in this hole were as follows: 10 to 12 metres 0.112 oz/ton gold, 14.0-15.5 metres 0.104 oz/ton gold and 146.8 to 147.2 metres 0.149 oz/ton gold.

DDH-21

This hole was collared 28 metres N08°W of hole 20 and was drilled due east at -60° to develop a fifth east-west section. The hole encountered overburden to 3.3 metres, quartz monzonite to 53.5 metres, dacite and rhyodacite to 90.9 metres and rhyodacite tuff and tuff-breccia to 203.3 metres, the end of the hole. The section from 7.5 to 50.0 averaged 0.034 oz/ton gold over 42.5 metres. The best assays in this hole were as follows: 42 to 43.5 metres 0.202 oz/ton gold and 97.5 to 98.0 metres 1.582 oz/ton gold.

DDH-22

This hole was collared 281 metres N28°E of hole 21 and drilled N65°E at -55° to intersect at least three gold-bearing veins exposed along the drill access road below the old drill camp. The hole was in rhyodacite tuff-breccia throughout and intersected five vein zones, three of which showed gold assays. The vein intersections and their assays are shown in the following table:

Core Intercept (m)	Length (m)	Au oz/ton	Description
41.3 - 43.3	2.0	0.144	siliceous with disseminated pyrite, sphalerite & arseno-pyrite.
74.7 - 75.2	0.5	Tr.	qtz-carb. stringers with sphalerite, pyrite, arseno-pyrite.
81.2 - 81.6	0.4	0.028	brecciated with quartz-carbonate stringers and stringers of py. sphal. & arseno.
99.5 - 100	0.5	0.006	brecciated; qtz-carbonate stringers with weak arseno-pyrite, pyrite & pyrrhotite.
130.3 - 130.5	0.2	Tr.	brecciated; qtz-carbonate with weak arsenopyrite, pyrite & sphalerite.

Outside of the veins the core showed negligible gold values.

DDH-23

Hole 23 was collared 37 metres S52°E of hole 79-7 and was drilled S65°W at -55° dip to check the section of volcanics west of the main dike and capped by Edziza volcanics. This area is topographically above the main gold soil anomaly. The hole encountered overburden to 7 metres and andesite, dacite and rhyodacite tuffs and breccias to the end of the hole at 115.8 metres. Several narrow quartz monzonite dikes and a number of fault zones were also intersected. The hole showed very low gold values throughout with the highest individual assay being 0.047 oz/ton gold from 63.4-65 metres.

DDH-24

This hole was collared 32 metres S32°E of hole 18 and was drilled due east at -63° dip to develop another east-west section south of the section through holes 18 and 79-2. The hole encountered overburden to 6.1 metres, dacite tuff-breccia to 16.8 metres, quartz monzonite to 43.6 metres and rhyodacite

tuff-breccia to 106.4 metres, the end of the hole. The entire hole showed only very low gold values throughout with the section from 45 to 72.5 metres averaging 0.022 oz/ton gold over 27.5. metres.

DDH-25

Hole 25 was drilled from the same collar as hole 24 but at -80° to the east to complete this east-west section. It encountered overburden to 6.1 metres, quartz monzonite to 78.3 metres and rhyodacite tuff-breccia to 106.1 metres, the end of the hole. This hole also showed very low gold values with the section from 62 to 88 metres averaging .017 oz/ton gold over 26 metres.

DDH-26

Hole 26 was collared 34 metres N08°E of hole 79-1 and was drilled due east at -63° dip to develop an east-west section between holes 79-1 and 79-6. This hole encountered overburden to 6.1 metres, quartz monzonite to 39.7 metres and dacite tuff-breccia to 106.7 metres, the end of the hole. The section from 6.1 to 38 metres averaged 0.049 oz/ton gold over 31.9 metres.The best assays in this hole were as follows: 8 to 10 metres 0.206 oz/ton gold and 104 to 106.7 metres 0.177 oz/ton gold.

DDH-27

Hole 27 was drilled from the same collar as hole 26 at -80° to the east to complete this section. It encountered overburden to 4.6 metres, quartz monzonite to 39.9 metres and dacite and rhyodacite tuff-breccia to 106.4 metres, the end of the hole. The section from 4.6 to 50 metres averaged 0.023 oz/ton gold over 45.4 metres. The best assays in the hole were as follows: 24 to 26 metres 0.106 oz/ton gold and 90 to 92.5 metres 0.134 oz/ton gold.

DDH-28

Hole 28 was collared 25 metres west of hole 79-6 and was drilled due east at -58° dip to complete the east-west section through hole 79-6. The hole encountered overburden to 6.4 metres and dacite tuff-breccia to 81.1 metres, the end of the hole. Several narrow quartz monzonite dikes were intersected in the upper part of the hole. The section from 6.4 to 49 metres averaged 0.042 oz/ton gold over 42.6 metres. The best assays in the hole was as follows: 9-11.1 metres 0.118 oz/ton gold, 32 to 33 metres 0.463 oz/ton gold, 41 to 43.7 metres 0.129 oz/ton gold and 45.2 to 46.9 metres 0.118 oz/ton gold.

STATEMENT OF COSTS

Period: June 11 - Oct. 18, 1980 (129 days)

Personnel:			
	Geologist:	60 days	Rate: $120/day
	Consultant:	20 days	Rate: $250/day
	Assistant:	80 days	Rate: $50/day
	Drillers:	4 men - 113 days	

Wages and salaries:			
Geologist	60 x $120	$ 7,200.00	
Consultant	20 x $250	5,000.00	
Assistant	80 x $50	4,000.00	$ 16,200.00
Food and accomodation @ $30/day/man			
Drillers:	4 x 113 x $30	$13,560.00	
Geological:	160 x $30	4,800.00	18,300.00
Travel & expenses			2,000.00
Assays:			
927 fire assays for Au @ $7		$ 6,489.00	
93 " " " Au & Ag @ $14		1,302.00	
1020 samples prepared @ .75¢		765.00	8,500.00
Freight:			
Food, fuel & equipment (Truck from Terrace; aircraft & helicopter from Iskut)			13,720.00
Bulldozer:			
Access roads, site preparation & drill moves:	320 hrs. @ $50/hr.		16,000.00
Drilling:			
2336 metres @ $105/metre			245,280.00
		TOTAL	$320,000.00

Respectfully submitted,

G.A. NOEL, P.Eng.

Vancouver, B.C.
February 19, 1981

STATEMENT OF QUALIFICATIONS

Roy D. Hogarth - project geologist, Northair Mines Ltd.

- graduate of Haileybury School of Mines, 1967
- geologist - United Keno Hill Mines Ltd., 1967-1972
- geological technician - Similkameen Mines, 1972-1974
- mine geologist, Northair Mines Ltd., 1974
- project " " " " 1975-present

Gerald A. Noel - consulting geologist

- graduate of University of B.C. (B.A.Sc.) - 1950
- graduate of University of Toronto (M.A.Sc.) - 1951
- member of Prof. Engineers of B.C. - Reg.#4283
- worked in mining exploration continuously since 1951
- consulting geologist with G.A. Noel & Associates Inc., 1976 to present

A P P E N D I X

Drill Logs

Hole No. 11 Page No. 1 of 7

Coordinates: 9776.3 N 9648.2 E

Collar elev. 1600 a.s.l. Bearing N88°E

Inclination -50° Total Depth 132.9m

Date Started June 29, 1980

Date Finished July , 1980

Ref. to Claim Corner

Logged by R. Hogarth

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY
			28.6				
			28.9				
			29.2				
			30				
			30.2				
			31				
			32				
			32.5				
			33				
			34				
			35				
			36				
			37				
			38				
			39				
			40				

COMMENTS:

AVE. CORE REC'Y/HOLE:

CO-28.6 Edziza Talus

Clay (orange-brown) with angular fragments of Dacite
Heavily limonite stained chloritic Dacite

Orange brown clay

28.6 - 39.6 Overburden

Dacite - fractured, limonite stained, chloritized containing 1% disseminated FeS_2

Orange brown clay containing fragments of Dacite

Project Consolidated Silver Ridge Location Red Dog Property Hole No. 11 Page No. 2 of 1

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

39.6-40.2 Dacite
heavily fractured, limonite stained with diss FeS2

40.2-42.7 Vein Zone ??
Dacite - heavily fractured, limonite stained, 50% gauge zone visible fine grained Arsenopyrite at 40.5. Approx 30% Quartz-Carbonate

42.7-44.4 Dacite
fresh, fractured, containing 15% web-like A-C stringers and 3% diss FeS2 gauge zone from 42.8-42.85

44.4-48.5 Dacite

Appears to be same rock as above, but ground up in a large gaugey fault zone.

48.5-49.5 Dacite
fractured with 3% A-C stringers At 49.0
2cm A-C stringers containing PbS-ZnS, FeS2, & FeAsS. 1% diss FeS2 throughout.

49.5-51.5 Quartz Monzonite
- few minor A-C stringers cutting through it. 2% diss FeS2 throughout. Minor fine grained FeAsS and CuFeS2. At 51.5 there is a 4cm A-C stringer containing ZnS, PbS, FeAsS, & FeS2

3/8

9/13

-42.7

-44

Project ______ Location ______ Hole No. ______ Page No. 3 of 4

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

Section marks: 53, 55, 56, 57, 59, 63

51.5-54.9 Dacite

10cm gauge, then first 5cm very fine grained siliceous (chilled margin?) 10% web like Q-C stringers (80% Carb) with 3% fine diss FeS_2 throughout Hematite & mariposite in some Q-C stringers. 15 cm gauge zones at 53.0m and 54.6m. From 53-54.9 core is very broken.

54.9-57.6 Quartz Monzonite

54.9-55.5 - very leached soft 55.5-56.1 brecciated with Q-C fracture filling. Monzonite is cut by 15% Q-C stringers and contains 1% diss FeS_2 Sharp contact at 65° to A of C.

Dacite containing 15% thin Q-C stringers and 5% diss FeS_2. At 58.1 there is a 1cm stringer of Rhyodacite - Dacite breccia cut by web-like Q-C stringers and containing ZnS-PbS & FeAsS 1-2% diss FeS_2 Contains 1-2 mm angular & sub-rounded fragments of Plagioclase. Matrix is dark green black. Minor Chlorite & minor Epidote.

Dacite 59.4-63.4

Dacite cut by web like Q-C stringers and containing 2% diss & stringers FeS_2

63.4-75.9 Dacite

Project _____ Location _____ Hole No. _____ Page No. 4 of 7

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY
			66				
			75				
			79				

COMMENTS:

AVE. CORE REC'Y/HOLE:

634 - 75.9 Dacite

Gradual change from green to grey-black. Minor hematite and Magnesite in some Q-C stringers

1-2% diss & stringers FeS_2. Very minor Q-C stringers

From 67.0 core gradually changes from grey-green to green.

75.9 - 80.5 Vein??

Dacite light grey-green. Sharp contact at 45° to A/C. Appears to be a mineralized bed with 15% Q-C stringers. There is brown Zn S-Pb S FeS_2 Cu FeS_2 and Fe As S mineralization along a few of the stringers

Project _____ Location _____ Hole No. _____ Page No. 5 of 7

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

79

F.w. contact is fairly sharp (45° to ASC) and the final 20cm. is brecciated with minor Epidote alteration. Well mineralized zone.

80.5-84.7 Dacite

Light grey-green cut by thin randomly oriented Q-C stringers. Contains 1% diss FeS2

84

84.7-85.3 Fault zone Intersection at 10° to ASC. Q-C stringers on both sides 10cm zone

85.3-91.0 Dacite

Brown green cut by fine Q-C stringers. Contains diss Epidote and Chlorite. Contains 3% diss FeS2 and minor Cu FeS2 Minor Hematite visible in carbonate stringers

91

91.0 101.5 Dacite

95

Project _____ Location _____ Hole No. _____ Page No. 6 of 7

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

93

100

Diorite 91.0-101.5.

Dark green 10cm gauge sharp contact at 50° to ASC.
10cm gauge zone at 93.9m 80° to ASC.

gauge slip at 100.0m 70° to ASC.

Contains 12% stringers of Q-C and 3% fine diss FeS_2

101.5 -110.6 Quartz Monzonite

Sharp contact at 45° to ASC. Contains 2-3% finely diss FeS_2
Structure is cut by fine Q-C stringers

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:
			106						

107.4-107.7 30% Q-C stringers intersecting at 50-70° to ASC
contains fine diss $FeAsS$ PbS $CuFeS_2$ & FeS_2

109.7-110.6 % age of mineralization increases with minor diss PbS, $FeAsS$.
Sharp contact at 70° to ASC

110.6 - 132.9 Diorite

Dark green, heavy sphorite alteration. Core is very fractured with red-brown limonite stain along fracture surfaces. 3% Q-C stringers & minor diss FeS_2

121.6 Gouge (Fault) 20° to ASC

123.2 minor $CuFeS_2$

DIP TEST 253' APP DIP -68°
425 " " -68°

Project: Cons. Silver Ridge Location: Red Dog

Hole No.: 11 Page No.: 1 of 2

Coordinates: 9776.3 N 9648.2 E

Collar elev.: Bearing: N88°E

Inclination: -50° Total Depth: 132.9m

Contractor: Longyear

Date Started:

Date Finished:

Ref. to Claim Corner:

Logged by: K. Hogarth

Depth Interval From	Depth Interval To	CORE Sample No.	Inches Rec.	% Rec.	ASSAY Au	ASSAY Ag
28.6	32.7	2551B			TR	TR
32.7	34.1	52			TR	TR
34.1	35.4	53			TR	TR
35.4	37.1	54			TR	TR
37.1	39.6	55			TR	TR
39.6	40.2	56			.028	.378
40.2	42.7	57			.019	.026
42.7	44.4	58			.023	.270
44.4	45.7	59			TR	TR
45.7	48.5	2560B			TR	TR
48.5	49.5	61			.021	.204
49.5	50.3	62			TR	TR
50.3	51.5	63			.007	.022
51.5	52.8	64			.022	.091
52.8	54.9	65			TR	.028
54.9	55.5	66			TR	TR
55.5	56.1	67			TR	TR
56.1	57.6	68			TR	.242
57.6	59.4	69			TR	TR
59.4	61.9	2570B			TR	TR

Depth Interval From	Depth Interval To	SLUDGE Sample No.	Lbs. Rec.	% Rec.	ASSAY Au	ASSAY Ag
63.4	64.1	2572B			TR	TR
64.1	65.6	73			.028	.055
65.6	67.0	74			TR	TR
67.0	69.1	2575B			TR	TR
69.1	70.6	76			TR	.096
70.6	72.3	77			TR	TR
72.3	74.6	78			TR	TR
74.6	76.1	79			TR	.275
76.1	78.2	2580B			TR	.173
78.2	79.6	81			.022	.186
79.6	80.5	82			TR	TR
80.5	82.5	83			TR	.191
82.5	84.7	84			TR	TR
84.7	85.3	85			TR	.056
85.3	86.6	86			TR	.024
86.6	88.5	87			TR	TR
88.5	89.9	88			TR	.024
89.9	91.4	89			TR	TR
91.4	92.9	2590B			TR	TR
92.9	94.4	91			TR	TR

Project Coin Silver Ridge Location Kendog Hole No. 11 Page No 2 of ...

Depth Interval From	Depth Interval To	CORE Sample No.	Inches Rec.	% Rec.	ASSAY Au	ASSAY Ag				Depth Interval From	Depth Interval To	SLUDGE Sample No.	Lbs. Rec.	% Rec.	ASSAY				
96.6	98.3	2593B			TR	TR													
98.3	100.0	94			.017	.163													
100.0	101.5	95			TR	.109													
101.5	103.0	96			TR	TR													
103.0	104.6	97			TR	TR													
104.6	106.7	98			TR	TR													
106.7	107.4	99			TR	TR													
107.4	107.7	2600B			TR.	.045													
107.7	108.5	01			TR	TR													
108.5	109.7	02			TR	TR													
109.7	110.6	03			TR	TR													
110.6	113.8	04			TR	TR													
113.8	114.3	05			TR	TR													
114.3	116.0	06			TR	.013													
116.0	117.6	07			TR	.011													
117.6	119.4	08			TR	.014													
119.4	120.9	09			TR	.014													
120.9	122.8	10			.012	.037													
122.8	124.6	11			TR	TR													
124.6	125.9	12			TR	TR													
125.9	127.5	13			TR	TR													
127.5	129.5	14			TR	TR													
129.5	131.5	15			TR	.014													
131.5	132.9	2616B			TR	TR													

Project CONSOLIDATED SILVERKING Location KED 1986

Hole No. 12 Page No. 1 of 4

Coordinates: 9780 N 9712 E

Collar elev. 1585 m. Bearing DUE WEST

Inclination -50° Total Depth 129.5 metres (83.1)

Contractor LONGYEAR

Date Started July, 1980

Date Finished July, 1980

Ref. to Claim Corner,

Logged by K. Bozich

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE:

0.0 - 35.2 Edziza Talus

35.2 - 37.1 Overburden

37.1 - 37.3 Dacite grey-black.

37.3 - 39.3 Quartz Monzonite

Contains 3% diss FeS_2 and minor $CuFeS_2$ and FeAsS.

39.3 - 48.6 Rhyodacite

Slightly brecciated and containing 20% Q-C stringers. Zone as 50% gauge. Contains 5-7% diss FeS_2. Minor visible PbS at 40.3 metres

48.6 - 51.2 Rhyodacite-Dacite breccia

Contains 3% diss FeS_2 and 2% fine diss Q-C stringers

Project _____ Location _____ Hole No. 2 Page No. 2 4

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

51.2-53.6 Quartz Monzonite
Contains 4% fine diss FeS_2 5% Q-C stringers cutting at 30-40° to HSQC. At 53.6 sharp contact at 40° to HSQC.

53.6-64.3 Dacite
Grey-green fine grained. 5% fine Q-C. stringers 1% fine diss FeS_2

64.3-65.2 Quartz Monzonite
Contact at 40° to HSQC. 2% diss FeS_2 Contact 50% HSQC

65.2-75.0 Dacite
Grey-green contains fine randomly oriented Q-C stringers 2-3% fine diss FeS_2. There are diss 1-2 mm elongated, sub rounded black crystals.

75.0-75.6 Vein Contact at 20° to HSQC.

Light green brecciated 70% Dacite 30% Q-C with 5-7% diss FeS_2 (coarse) Contains diss stringers ZnS-PbS and probably FeAsS mineralization

Project _____ Location _____ Hole No. 12 Page No. 3 of 4

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

76.6 - 94.4 Daute.

Light medium grey-green containing 10% Q-C stringers and 3% diss and stringers FeS_2. Minor diss sub-rounded black crystals

88.1- 5cm gauge (fault) 45° to B.C.

78.0 Minor Zn-Pb-S in Q-C stringer 10 cm

90.3-91.3 Fault zone - gauge and re-cemented angular fragments of Daute.

94.4-96.7 Vein Zone.

Brecciated Daute with 30% Q-C. Very well mineralized with stringers and diss ZnS-PbS (5%) FeAsS (2%) FeS_2 (7%)

96.7 - 109.0 Daute

Grey-green with randomly oriented Q-C stringers Minor diss ZnS-PbS mineralization in the stringers 3% diss FeS_2

Project _____ Location _____ Hole No. 12 Page No. 2 of 4

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

109.0 - 129.5 Dacite
Medium grain, leached, soggy. 3% to diss FeSi 5%
few D-C stringers
From 119.8 core is very broken.
125.0 Fault (gauge) 60° to A/C.

210' App Dip 56° True Dip
420' App Dip 56°

Project Coeur Silver Ridge Location R. D. 1" Page 2-2

CORE										SLUDGE									
Depth Interval		Sample No.	Inches Rec.	% Rec.	ASSAY					Depth Interval		Sample No.	Lbs. Rec.	% Rec.	ASSAY				
From	To				Hg	Ag				From	To								
106.4	109.0	2734B			TR	TR													
109.0	110.9	35			TR	TR													
110.9	113.4	36			.028	TR													
113.4	115.6	37			.012	TR													
115.6	117.9	38			TR	TR													
117.9	119.8	39			TR	TR													
119.8	122.2	2746B			TR	TR													
122.2	124.2	41			.020	TR													
124.2	126.0	42			TR	.013													
126.0	127.9	43			TR	.087													
127.9	129.5	2744B			TR	TR													

Project Linc Silver Ridge Location KED 1106 Contractor Longyear

Hole No. 13 Page No. 1 of

Coordinates: 9750 N 9732 9708 E Date Started July , 1980

Collar elev. 1610 m. Bearing N2 90° Date Finished July , 1980

Inclination -50° Total Depth 160.0 Metres. (102.5) Ref. to Claim Corner

Logged by R. Hojnacki

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE:

0-34.7 Talus boulders & overburden

34.7-47.2 Dacite grey-black with 1-5 m.m. Q-C stringers (10%) contains 2% disc FeS_2 and a few specks FeAsS.

47.2-47.7 Quartz Monzonite: Sharp gauge contact at 45° to A/C. Contains 2% disc FeS_2 and minor disc $CuFeS_2$

47.7-47.9 Vein Zone. 90% carbonate 10% Quartz containing 20% combined ZnS, PbS, FeAsS, FeS_2 and $CuFeS_2$. Contact at 45° to A/C.

47.9-108.7 Quartz Monzonite. Pink-green. First 0.5 metres contains FeAsS. Numerous slips

Ground Monzonite at 45° to A/C.

52.7- 1cm Q-C. stringer containing ZnS-PbS FeAsS

61.7-69.7 There are numerous crushed up gouge zones at 50-70° to A/C. These exist throughout but are predominent here

There is ~2% disc $CuFeS_2$ throughout.

Project LOWS SILVER RIDGE Location RED DOG Hole No. 13 Page No. 2 of 2

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

108.7-109.5 Dyke - black fine grained, contact at 45° to H.C. (Basalt - Lamprophyre)

109.5-136.6 Quartz Monzonite as above.

121.8-136.6 Brecciated & interbedded Dacite & Quartz Monzonite Recemented in places with Q-C.

136.6-160.0 Dacite. Brown-grey. Sharp contact at 45° to H.C. 10% Q-C with 4% diss FeS2 and 1% disc Cu FeS2

141.8-146.3 - Brecciated fault zones (not veins) with sharp contacts at 45° to H.C.

155.0 15 cm breccia zone, possible vein 10% FeS2 1% Cu FeS2

158.0-158.3 Breccia zone, possible vein 10% FeS2 1% Cu FeS2

EOH 160.0

Metres	App dip	True dip
81	62°	
160	60°	

Proj. [illegible] Location [illegible] Contractor [illegible]

Hole No. 13 Page No. 1 of 2 Date Started

Coordinates: 9750 N ~~9732~~ 9108 E Date Finished

Collar elev. Bearing Due WEST Ref. to Claim Corner

Inclination -50° Total Depth 160.0 metres Logged by R. Hogarth

CORE Depth Interval From	To	Sample No.	Inches Rec.	% Rec.	ASSAY Au	Ag				SLUDGE Depth Interval From	To	Sample No.	Lbs. Rec.	% Rec.	ASSAY Au	Ag			
34.7	36.6	2745B			.012	TR				79.3	80.8	2666B			.027	.049			
36.6	38.4	46			.024	TR				80.8	83.0	67			TR	.047			
38.4	41.4	47			.017	TR				83.0	85.2	68			.025	TR			
41.4	43.4	48			.012	TR				85.2	87.7	69			.013	.045			
43.4	44.4	49			.008	TR				87.7	90.4	2670B			.027	TR			
44.4	46.5	2750B			TR	.246				90.4	93.1	71			.026	TR			
46.5	47.7	2651B			.011	.053				93.1	95.5	72			.049	TR			
47.7	47.9	52			TR	TR				95.5	97.2	73			.034	TR			
47.9	50.8	53			.007	.046				97.2	99.1	74			.023	TR			
50.8	53.0	54			.006	.073				99.1	101.3	75			.021	TR			
53.0	55.5	55			TR	.052				101.3	103.4	76			.021	TR			
55.5	57.3	56			.026	.041				103.4	105.1	77			.023	TR			
57.3	59.0	57			.007	.042				105.1	106.5	78			.023	TR			
59.0	61.3	58			.020	.053				106.5	108.7	79			.023	6.634			
61.3	63.4	59			.039	.805				108.7	109.5	2680B			TR	TR			
63.4	65.8	2660B			.054	.063				109.5	111.9	81			.022	TR			
65.8	68.9	61			.023	.065				111.9	114.0	82			.008	TR			
68.9	71.6	62			.019	.133				114.0	116.3	83			TR	TR			
71.6	74.2	63			.017	.060				116.3	118.3	84			.016	.054			
74.2	77.0	64								118.3	120.5	85			.027	.105			
77.0	79.3	65			.016	.111				120.5	123.3	86			.014	.099			

Project ______ Location Fou Dor ______ Hole No. 13 ______ Page No. 2 of 2

Depth Interval		CORE								Depth Interval		SLUDGE							
					ASSAY										ASSAY				
From	To	Sample No.	Inches Rec.	% Rec.	Au	Ag				From	To	Sample No.	Lbs. Rec.	% Rec.					
123.3	125.3	2687B			.030	.165													
125.3	127.1	88			.011	.135													
127.1	129.4	89			.027	.269													
129.4	131.6	2690B			.014	.062													
131.6	133.2	91			.026	.089													
133.2	135.6	92			.020	.073													
135.6	136.8	93			.018	.153													
136.8	139.5	94			.010	.068													
139.5	141.7	95			TR	TR													
141.7	143.6	96			.006	.126													
143.6	145.4	97			TR	.168													
145.4	145.8	98			.005	.101													
145.8	146.3	99			TR	.096													
146.3	150.1	2700B			TR	.079													
150.1	153.3	2776B			TR	TR													
153.3	155.3	77			TR	.078													
155.3	156.6	78			.005	.102													
156.6	158.0	79			TR	.120													
158.0	158.3	80			TR	.067													
158.3	160.0	2781B			TR	TR													

Project: CORC SILVER RIDGE Location: RED DOG

Contractor: LONGYEAR

Hole No.: 14 Page No. 1 of 4

Date Started: July 1980

Coordinates: 9744.2 N 9768.4 E

Date Finished: July 21, 1980

Collar elev.: 1595 m Bearing: 270°

Ref. to Claim Corner:

Inclination: -55° Total Depth: 175.9 metres (1009)

Logged by: R. Hogarth

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

0.0-24.3 Overburden.

24.3-29.6 Dacite. Black with 10% Q-C stringers and 2% diss FeS_2
loss 2m

26.2-28.6 - (gauge) fault zone.

29.6-30.9 Quartz Monzonite Sharp contact at 25° to A of C. Contains 2% combined FeS_2, $CuFeS_2$ and Pyrr.

30.9-71.0 Dacite - Black, contains 5% Q-C stringers

33.8-34.0 - Fault gauge
35.6-35.7 - " "
35.9 - 36.0 " "

Core is very broken. Minor epidote alteration

38.7-38.8 Fault gauge
40.0-41.7 " " & 50% Dacite

43.0 - Core becomes much blockier. Contains 2-3% diss FeS_2. Amount of Epidote alteration increases

Project _____ Location PDL hole no. 1 Page no. 2 of 4

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

49.2-50.3 Fault gauge 30% and 50% brecciated Diorite loss .5m. cemented by Q-C.

52.0 - Gradual change to a medium green colour. More Chlorite alteration

62.8-63.1 Fault

66.8-67.0 Fault gauge. Banded Q-C. 80° to B.A.

71.0-72.0 Quartz Monzonite. Pink-green Sharp contact at 80° to B.A. Stringers of FeS2 cross through contact.

72.0-95.7 Diorite. Medium green. Chlorite & Epidote alteration. Contains 2% disseminated FeS2

75.0-95.7 Core is very broken & limonite stained on fracture surfaces.

86.5-86.9 Fault (gauge)

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

95.7-105.0 Dacite Same as above, but no limonite staining of fracture surfaces.

102.2-103.7 Fault zone with gauge layers throughout Dacite is brecciated in places and altered to a light green (Epidote)

103.7-105.0 Breccia and alteration zone. Core varies from light to dark green. In places Q-C composes the breccia matrix

105.0-115.3 Dacite Grey-black containing 5% Q-C stringers and 2% disseminated FeS2. Minor disseminated Epidote

109.8 Fault 15cm gauge
110.9 " 5cm "

112.6-115.3 Ground is very faulted and broken - Increase in the amount of FeS2 and Epidote.

115.3-126.0 Quartz Monzonite Pink-green Contact at 35° to A.C. Last 1.2 metres is gaugey & broken Contact at 50° to A.C.

Project _____ Location R. Do ... Hole ... 111 ... Page 4 of 4

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE:

126.0 - 175.9 Dacite Dark green, highly fractured, minor diss Epidote

137.7 10cm gauge (fault)
140.8 10cm gauge & fractured Dacite (fault)
169.0-170.0 fault.

175.9 EOH

Metres	Apparent dip	true dip
141	62°	
175.9	59°	

Proj [illegible] — tion. [illegible]

Contractor

Hole No. 14 Page No. 1 of

Coordinates: 9744.2 N 9768.4 E

Date Started

Date Finished

Collar elev. Bearing

Ref. to Claim Corner

Inclination -55° Total Depth 175.9 m

Logged by

CORE

Depth Interval From	Depth Interval To	Sample No.	Inches Rec.	% Rec.	Assay Au	Assay	Assay	Assay	Assay
24.3	26.2	2782B			.010				
26.2	28.6	83			.013				
28.6	29.6	84			.013				
29.6	30.9	85			.007				
30.9	32.7	86			.007				
32.7	35.9	87			.009				
35.9	38.2	88			TR				
38.2	40.0	89			.006				
40.0	41.7	2790B			.030				
41.7	43.9	91			TR				
43.9	45.7	92			TR				
45.7	47.3	93			.010				
47.3	49.2	94			.008				
49.2	50.3	95			.009				
50.3	53.0	96			.006				
53.0	55.1	97			TR				
55.1	57.2	98			.006				
57.2	58.5	99			TR				
58.5	60.8	2800B			.006				
60.8	63.1	01			TR				
63.1	65.4	02			.008				

SLUDGE

Depth Interval From	Depth Interval To	Sample No.	Lbs. Rec.	% Rec.	Assay Au	Assay	Assay	Assay	Assay
65.4	67.7	2803B			.001				
67.7	70.1	04			.016				
70.1	71.0	05			.008				
71.0	72.0	06			.022				
72.0	74.1	07			.006				
74.1	75.8	08			.005				
75.8	77.6	09			TR				
77.6	79.8	2810B			TR				
79.8	82.1	11			TR				
82.1	83.8	12			TR				
83.8	85.3	13			TR				
85.3	86.5	14			TR				
86.5	86.9	15			TR				
86.9	89.1	16			TR				
89.1	91.5	17			TR				
91.5	93.9	18			TR				
93.9	95.7	19			.008				
95.7	97.2	2820			.014				
97.2	99.1	1			TR				
99.1	101.2	2			TR				
101.2	102.2	2823			TR				

Co. Silk Ridge Mines Location: Red Dog Property

Hole No. 15 Page No. 1 of

Coordinates: 9821.5 N 9708 E

Collar elev. 1590 m Bearing due W

Inclination -50° Total Depth 66.4 m. (217')

Contractor

Date Started July --, 19--

Date Finished July 29, 1980

Ref. to Claim Corner

Logged by G. Nuel

DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SECTION | ALTERATION | FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE: 34.6 %

0 - 48.5 : Overburden - Edziza volcanic boulders, mainly vesicular basalt to 44.8 m.; then porphyritic basalt and Fe Ox clay with pebbles & some conglomerate.

48.5 - 52.1 : Dacite and Andesite: almost completely disintegrated and decomposed ? to iron oxide clay & sand; some pieces iron-stained dacite with disseminated pyrite

52.1 - 53.3 Edziza Volcanics: few small pieces vesicular basalt.

53.3 - 54.9 Dacite and Andesite: heavily weathered to iron oxide clay and numerous small fragments; dissem. pyrite; Estimate 2% sulphides.

54.9 - 66.4 Quartz Monzonite: fine to medium grained grey; heavily fractured; disseminated pyrite; fracturing parallel to core & at 20°; extremely fragmented; estimate 2% sulphides.

66.4 - End of Hole

[Hole stopped due to stuck rods].

Project Consolidated Silver Ridge Location Red D[illegible] Property

Hole No. 15 Page No. 1 of 1

Coordinates: 9821.5 N 9708 E

Collar elev. 1590 m. Bearing due W.

Inclination -50° Total Depth 66.4 metres

Contractor Longyear Canada Inc

Date Started July 22, 1980

Date Finished July 27, 1980

Ref. to Claim Corner

Logged by G. Noel

CORE										SLUDGE									
Depth Interval (m.)		Sample No.	~~Inches~~ Metres Rec.	% Rec.	ASSAY					Depth Interval		Sample No.	Lbs. Rec.	% Rec.	ASSAY				
From	To				Au oz/t					From	To								
48.5	52.1	2864	2.4	67	Tr														
53.3	54.9	2865	0.3	19	Tr														
54.9	59.4	2866	0.5	11	Tr														
59.4	61.0	2867	1.0	62	Tr														
61.0	62.5	2868	1.2	80	Tr														
62.5	64.6	2869	0.7	33	Tr														

Project [illegible] Location Red Dog Property

Hole No. 16 Page No. 1 of 6

Coordinates: 9556.0 N 9761.0 E

Collar elev. 1675 m. Bearing S85°E

Inclination −69°30' Total Depth 161.8 m. (5[illegible])

Contractor Longyear Canada Inc.

Date Started July 28, 1980

Date Finished August 3, 1980

Ref. to Claim Corner

Logged by G.A. Nuel

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE: 80.9%

0-9.1 : <u>Overburden</u>

9.1-25.8: <u>Quartz Monzonite</u>: fine grained, pinkish grey; variable hardness; strongly leached and altered in places; disseminated pyrite - estimate 2% sulphides; few thin quartz and calcite seams @ 20° & 40° to core.

10.7-11.6: 3-5 mm quartz sms @ 20°.

11.6-14.0: thin calcite - quartz seams @ 40°, 60° & 80°; talc and chlorite along fractures. @ 45° & 50°.

14.0-17.1: light fracturing @ 30°, 50°, 70°; qtz veinlets (2-10mm.) @ 45°, 80° & parallel to core.; sparse dissem. py.

15.3-15.4: Fault @ 30°.

16.7-17.8: Fault parallel to core

18.1: Fault @ 25°

19.8-20.1: Fault @ 30°

17.1-20.1: { Light fracturing @ 20°, 30°, 50°, 80° & parallel to core
Dissem. py. - estimate 1-2% sulphide

20.1-22.2: Strongly leached; fractures @ 30°, 40°, 60° & 70°
Faulting: @ 21.4 m. - 3 cm. @ 40°; 21.6 m @ 60° (1 cm. gouge); & 21.8-22.0 @ 20°. Est. 2% sulphides as dissem. py.

22.2-25.8: Strongly leached; fractures @ 50° & parallel to core; numerous qtz sms 1 to 10 mm. @ 30°, 60° and parallel to core; Est. 1-2% sulphides - dissem. py.; little magnetite.

22.7: Fault (1 cm) @ 50°.

Project Cons. Silver Ridge Mines Location Red Dog Property Hole No. 16 Page No. 2 of 6

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE: 80.9 %

9.1 - 25.8 : Quartz Monzonite : see page 1 for description.

23.2: thin shearing @ 40°

24.1: gougy @ 40°.

24.6: Fault (1cm. gouge) @ 70°.

24.8 - 25.0: thin shearing with gouge @ 10°.

25.8 - 28.3 : Altered Tuffs: mottled grey, dark brown and black; fairly hard; biotized and chloritic; upper contact @ 60°, lwr contact 40° - some shearing along contacts; lightly fractured; thin calcite and qtz seams @ 30° to core; Estimate 2-3% sulphides as pyrite with some cpy as disseminated,

27.7: 5 cm. shear @ 40°.

28.3 - 60.5 : Quartz Monzonite : light grey green, pink and tan, porphyritic with feldspar phenocrysts; few irregular calcite and quartz seams parallel to core and @ 30° & 70°; est. 1-2% sulphides, mainly dissem. py.

33.0: 5mm. shearing @ 60°

33.2: 2cm. " @ 40°

33.6: 2mm. " @ 30°

34.3: 3mm. " @ 50°

35.2: 5mm. " @ 20°

35.4 - 46.0: lightly fractured @ 20°, 40°, 60° & parallel to core; Est. 2% sulphides as fine pyrite.

35.6: shearing @ 30° & 80° (5cm. gouge)

Project Consol. Silver Ridge Mining Location Red Dog Property Hole No. 1W Page no. 3 of 6

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE: 80.9 %

28.3 - 60.5: Quartz Monzonite: see pages 1 & 2 for description.

36.6: 3 mm. gouge @ 70°

37.1 & 37.3: 1-3 mm. gouge @ 60° and parallel to core.

38.1: 2cm. gouge @ 30°

38.4: 3 cm. " @ 70°

38.7: 1-3 mm. " @ 50° and parallel to core.

39.2: 3 mm. " @ 20°

42.6 - 42.8: 3 mm. gouge @ 20°, 40° & 60°.

38.6: 1.5 cm. $CaCO_3$ w. pyrite(+)

46.0 - 50.6: slightly leached; light fracturing @ 30°, 50° & 60°. few qtz & calcite seams @ 30° & 50°; est. 2% sulph. as Py.

47.6: 1 mm. shearing @ 30°

48.5 - 48.6: sheared @ 50°.

50.6 - 53.6: heavily leached & altered; light fracturing @ 40°, 50° & 60°; Est. 1-2% sulphides as dissem. pyrite with a little cpy.

50.9: 1 mm. gouge @ 30° & 60°

51.6: 5 mm. " @ 40°.

52.1: shearing @ 50°.

53.6 - 56.1: light fracturing @ 20°, 30°, 40° & 60°; estimate 1% sulphides with pyrite disseminated & in few seams; few specks cpy.

53.6: 5 mm. gouge @ 50°

54.8 - 55.6: sheared @ 10°, 30° & 40°

56.0: shearing @ 30°.

56.1 - 60.5: heavily fractured & sheared @ 40° & parallel to core; iron oxide; lwr contact @ 40° with 1.5 m. of qtz monzonite strongly leached & sheared @ 40°.

Est. 1-2% sulph: as dissem. Py. & pyrr. w. few specks cpy.

Project Lunsoll - Ivey ...dge Location ...d ...og. Hole No. 16 Page No. 4 of 6

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE: 80.9%

58.9 - 59.2: black vesicular & amygd. (olivine) basalt @ 30°.

60.5 - 61.7: Basalt: dense, black, fairly hard, vesicular and amygd. FeOx alg fractures @ 10°, 40°, 50° & 60°. Lwr. contact @ 30°.

61.7 - 81.7: Rhyodacite tuff: grey, tan & cream, slightly banded, hard; upper contact sheared for 10 cm @ 30°;

61.7 - 65.2: lightly fractured @ 30°, 40°, 60° & 80°; 2-10 mm sms. qtz, calcite and calcite bx @ 30°, 50° & parallel to core. Est. 2-3% sulphides as finely dissem. py. with sparse cpy; some color banding in tuffs @ 50°-60°.

65.2 - 68.3: Moderately fractured @ 40°, 70° & 10° to core; estimate 2-3% sulph. with dissem. pyrite mainly.

66.5: 13 cm. $CaCO_3$ with py. @ 80° to core.

66.7: 10 cm. " " " @ 70° "

67.7: 10 cm. shearing parallel to core.

68.3 - 74.4: lightly fractured @ 30°, 40°, 50° & 70°; numerous thin calcite and quartz sms @ 30°-50°; pyrite dissem. and in thin sms; some arsenopyrite and few specks cpy; estimate 3% sulph.

68.6: 2 cm. $CaCO_3$ w. py. @ 50°

69.3: 3 cm " + py. @ 10°

74.1: 2cm " " @ 60°

73.7: thin bands py. & arsenopy. @ 40° to core.

74.4 - 78: lightly fractured. @ 30°, 50° & 80°; numerous thin calcite & qtz sms @ 30°-50°; pyrite dissem & in thin seams; little arsenopy. - estimate 3% sulphides.

Project Lonsolid - Van Ridge Location Red Dog. Hole no. 16 Page 5 of 6

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE: 80.9 %

76.1 : 2cm. shearing @ 50°.

78 - 81.7 : moderately fractured @ 30°, 40° & 80°; thin calcite & qtz sms @ 30° 50° & 70°; pyrite disseminated & in thin seams w. little arsenopyrite; Estimate 2-3% sulphides.

79.0 : shearing for 20 cm. @ 30° & 60°.

81.7 - 99.7 : Rhyolite tuff with minor tuff-breccia; grey, tan & cream; hard; epidote in places; Est. 2-3% sulphides, mainly pyrite.

81.7 - 86.9 : moderately fractured @ 20°, 30°, 40°, 60° & parallel to core; 1-5 mm. qtz & calcite sms @ 30°, 40°, 50° & parallel to core; pyrite in thin bands & disseminations (80% of sulphides) Little arsenopyrite & chalcopyrite; Estimate 3% sulphides; Spotty epidote alteration.

82.5 - 82.9 : Visible gold (under hand lens) with arsenopyrite.

83.8 : siliceous banding @ 30°.

86.9 - 99.7 : well fractured @ 10°, 30°, 60° & 70° - FeOx along fract., epidote in small patches & bands along "healed" fractures. Pyrite in thin sms & dissem. with arsenopy.; Est 2-3% sulph.

89.3 - 89.8 : color banding @ 30°-40°

90.5 - 90.8 : " " @ 30°-50°

95.5 : color banding @ 30°

89.8 : 2cm. calcite with py. @ 50°

90.6 : 2cm " @ 25°

99.7 - 107.0 : Rhyodacite and dacite tuff & tuff-breccia: grey, green & black; breccia clasts to 1cm.; spotty epidote; fractured @ 20°, 30°, 40° & 60°; thin calcite seams @ 20°, 30°, 60° & parallel to core

100.9 : 1cm $CaCO_3$ with py. & arsenopy. @ 40°

104 : 1cm. " with py.(+) @ 30°

Project [illegible] Ridge Location [illegible] Hole no. 16 Page no. 6 of 6

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE: 80.9%

99.7 - 107.0: Rhyodacite and dacite tuff and tuff-breccia:
see page 5 for description.

102.4: color banding in rhyolite tuff @ 25°.

102.1 - 103.4: rhyolite tuff.

102.1 - 103.6: Strongly fractured.

102.4 - 102.6: sheared @ 40°

103.4 - 103.6: calcite vein @ 30° with py., magnetite, arsenopyrite & little cpy; estimate 30% sulphides.

103.6 - 104.8: estimate 15% sulphides - mainly pyrite with a little arsenopy & cpy.

104.8 - 107.0: sulphide vein @ 50° - pyrite & magnetite with minor arsenopy. and cpy - some calcite & qtz. Est. 50% sulphides & magnetite.

107.0 - End of Hole

Hole stopped due to squeezing ground. No water return

Project Consolidated Silver Rido. Mines ... Location Red Dog Property

Contractor Longyear Canada Inc.

Hole No. 16 Page No. 1 of 3

Date Started July 28, 1980

Coordinates: 9556 N 9761 E

Date Finished August 3, 1980

Collar elev. 1675 m. Bearing S85°E

Ref. to Claim Corner

Inclination -69°30' Total Depth 161.8 m.

Logged by G.A. Nuel

Depth Interval (m.)		CORE									Depth Interval		SLUDGE							
			Metres Inches		Au	ASSAY										ASSAY				
From	To	Sample No.	Rec.	% Rec.	oz/T.						From	To	Sample No.	Lbs. Rec.	% Rec.					
9.1	11.6	2870	2.3	92	TR															
11.6	14.0	2871	2.41	103	TR															
14.0	15.5	2872	1.22	81	TR															
15.5	18.5	2873	2.4	81	TR															
18.5	20.0	2874	1.2	80	TR															
20.0	21.5	2875	1.42	95	TR															
21.5	23.0	2876	1.44	96	TR															
23.0	24.5	2877	1.46	97	TR															
24.5	25.8	2878	1.5	100	TR															
25.8	27.5	2879	1.75	103	Tr.															
27.5	29.0	2880	1.45	97	.013															
29.0	30.5	2881	1.36	91	Tr															
30.5	32.0	2882	1.5	100	.012															
32.0	33.5	2883	1.46	98	.043															
33.5	35.0	2884	1.45	97	Tr															
35.0	36.5	2885	1.52	101	Tr															
36.5	38.0	2886	1.54	103	Tr															
38.0	39.5	2887	1.52	101	Tr															
39.5	41.0	2888	1.33	89	Tr															
41.0	42.5	2889	1.57	105	Tr															
42.5	44.0	2890	1.6	107	Tr															
44.0	45.5	2891	1.44	96	Tr															

Project General Silver King Mine Location K... Day Property ... Page 3

Depth Interval (m)		CORE								Depth Interval		SLUDGE							
		Sample No.	Metres Inches Rec.	% Rec.	ASSAY Au oz/t.							Sample No.	Lbs. Rec.	% Rec.	ASSAY				
From	To									From	To								
45.5	47.0	2892	1.47	98	.082														
47.0	48.5	2893	1.5	100	Tr														
48.5	50.0	2894	1.5	100	.008														
50.0	51.5	2895	1.5	100	.009														
51.5	53.0	2896	1.5	100	.078														
53.0	54.5	2897	1.5	100	Tr														
54.5	56.0	2898	1.5	100	.03														
56.0	57.5	2899	1.29	86	.044														
57.5	58.9	2900	1.28	85	Tr.														
59.2	60.5	226	1.36	91	.053														
60.5	63.0	227	2.8	93	.037														
63.0	64.5	228	1.5	100	.025														
64.5	66.0	229	1.5	100	.006														
66.0	67.5	230	1.5	100	.014														
67.5	69.0	231	1.5	100	Tr.														
69.0	70.5	232	1.5	100	.03														
70.5	72.0	233	1.34	89	.03														
72.0	73.5	234	1.15	77	.014														
73.5	75.0	235	1.25	83	.007														
75.0	76.5	236	1.4	93	.014														
76.5	78.0	237	1.36	91	.009														
78.0	79.5	238	1.25	83	.147														
79.5	81.0	239	1.32	89	.009														
81.0	82.2	240	1.16	97	.008														

Project [illegible] Location [illegible] 16 Pa 3 3

Core Depth Interval From	Core Depth Interval To	Core Sample No.	Core Inches Rec.	Core % Rec.	Core Assay Au oz/t	Core Assay	Core Assay	Core Assay	Core Assay	Sludge Depth Interval From	Sludge Depth Interval To	Sludge Sample No.	Sludge Lbs. Rec.	Sludge % Rec.	Sludge Assay	Sludge Assay	Sludge Assay	Sludge Assay	Sludge Assay
82.2	83.2	241	1.08	108	.254														
83.2	84.5	242	1.34	103	.128														
84.5	86.0	243	1.40	93	.010														
86.0	87.5	244	1.41	94	.042														
87.5	89.0	245	1.44	96	.008														
89.0	90.5	246	1.49	99	Tr.														
90.5	92.0	247	1.32	88	.001														
92.0	93.5	248	1.32	88	.001														
93.5	95.0	249	1.10	73	Tr.														
95.0	96.5	250	1.10	73	.009														
96.5	98.0	251	0.97	65	.005														
98.0	99.5	252	0.93	62	Tr.														
99.5	101.0	253	1.44	96	.015														
101.0	102.5	254	1.40	93	.034														
102.5	103.4	255	0.97	108	.009														
103.4	105.0	256	1.48	92	.011														
105.0	107.0	257	1.34	90	Tr.														

Project Consol. Silver Ridge Mines Location Red Dog

Hole No. 17 Page No. 1 of

Coordinates: 9554.0 N 9795.7 E

Collar elev. 1665 m. Bearing due East

Inclination -60° Total Depth 135.9 m.

Contractor Longyear Canada Inc.

Date Started August 4, 1980

Date Finished August 10, 1980

Ref. to Claim Corner

Logged by G. Noel

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE: 89.2%

0-9.1 : Overburden.

9.1-11.2 : Quartz Monzonite: fine to med. grained, grey, slightly porphyritic. Lower contact @ 60°; lightly fractured @ 20°, 70° & parallel to core; estimate 1% sulphides - dissem. fine pyrite

10.0: 5 mm. qtz vein @ 30° - pyrite, arsenopyrite & little cpy.

11.2-13.4: Altered Volcanics: black to dark brown, dense, lightly fractured; silicified for 7 cm. upper contact; lower contact @ 60°; estimate 3% sulphides mainly pyrite as dissem. & ptchs.

11.2: 7 cm. qtz with py. @ 60°

11.8: 5 mm. qtz with py, arsenopy, cpy. @ 60°

13.4: 1.2 cm qtz with py. & cpy @ 30°.

13.4-14.9 : Quartz Monzonite : med. grained, grey & pink; hard; lightly fractured @ 50° & parallel to core; estimate 1% total sulph. mainly pyrite, dissem. & in thin seams.; FeO_x along fractures.

14.9-16.1 Aplite: fine grained hard; white; lightly fractured @ 20°, 30° & 70°; upper contact @ 20° somewhat sheared; lower contact at 20°; pyrite with little arsenopy & cpy. both dissem. & in thin seams; estimate 3% total sulphides.

16.1m: 1.2 cm. calcite @ 30° & 70° w. little py., cpy, arsenopy.

16.1-25.8 : Dacite & andesite : grey to black fairly hard; lightly fractured @ 20°, 40°, 50°, 60° & parallel to core; $FeO_x^{(-)}$ along fractures; numerous 1-5 mm. qtz & calcite stringers @ 30°, 40°, 60°, 80° & parallel to core with py.(-) Pyrite dissem. & in thin sms; little cpy, arsenopy; Est. 3% sulph.

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE: 89.2%

17.8: 5 mm. $CaCO_3$ w. arsenopy. @ 30°.
18: 10 cm. qtz monzonite @ 40°

25.8 - 26.6: Quartz Monzonite grey & pink, med. grained to porphyritic w. feldspar phenocrysts.; upper contact @ 50°; lower @ 40°; 2-5 mm. qtz veinlets @ 50° & 70°; lightly fractured @ 50° & 60°; dissem. pyrite - also pyrite w. little arsenopy in qtz veinlets; Est 2% sulp
26.2 m: 5 mm. qtz veinlet @ 40° shows visible gold (hand lens)

26.6 - 46.6: Andesite and Andesite Tuff & Breccia: grey, green and brown; moderately hard; lightly fractured @ 20°, 30°, 50° & 70°; thin qtz and calcite sms @ 20°, 40°, 50° & parallel to core; pyrite, with arsenopy in places, as patches, seams, & dissemin. Estimate 3% sulphides.
34.7: 2 cm. $CaCO_3$ @ 40° with py, hem. & tuff-bx.
35.4: 3 cm " @ 20° with py, hematite and tuff fragments.
36.9: 1.5 cm. $CaCO_3$ @ 40° - and. fragments; pyrite
37.8: 7 mm. calcite @ 60°; pyrite.
39 - 39.8: 5 mm. calcite parallel to core; pyrite.
43.1: 1 cm. $CaCO_3$ w. py. @ 50°.
43.4: 1 cm. $CaCO_3$ w. and. frags. & py @ 70°
44.1: 4 cm. " bx @ 70° - py(-1)
45.0: 1 cm. calcite bx. @ 40°.

46.6 - 56.4: Andesite & dacite tuff and tuff breccia: brown, greenish grey and tan; hard, moderately fractured @ 30°, 40°, 50° 60° & 70° - Fe Ox alg fractures. Pyrite in sms. & diss'em.; minor arsenopy. mainly in sms. @ 40°. Est. 3% sulph

Project [illegible] ilve Ridge Location [illegible] Property hole no. 7 Page no. 2 of 6

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE: 89.2%

52.7: 1cm arsenopy @ 20° & 70° with calcite.
54.5: 2cm. $CaCO_3$ @ 30° with and. fragments & py(-)
56.2: arsenopy. in ptchs. in dacitic tuff.

56.4 - 107.3 : Rhyodacite and dacite tuff and tuff-breccia: tan, grey and cream, hard; thin calcite and qtz sms @ 20°, 30°, 40° and parallel to core. with little pyrite and arsenopyrite; spotty epidote; flow and tuff banding textures in places; lightly fractured @ 20°, 30°, 60° & 70°; some FeOx alg fracts.; Est. 3% sulph - py, arsenopy(-).

59.9: 2 cm. calcite + qtz w. bl-sphal, py, little arsenopy & cpy @ 60°.
58.4: tuff banding @ 30°
62.0: 15 cm. talcose gouge @ 50°
62.2: 7 cm. calcite w. py. @ 60°
60.4-60.8: tuff banding @ 30°.
62.3: 6 cm. talcose gouge @ 50°
62.9-63.4: 1 cm. calcite w. py(+) @ 10° to core.
67.5: 2 cm. qtz-calcite w. fine py. & arsenopy. @ 60°.
68.9: 1 cm. calcite w. py. @ 70°.
69.4: 3 cm. calcite w. py. & arsenopy. @ 70°
69.-69.2: tuff banding @ 50° - 60°
70.9: 0.2 m. calcite - rhyolite bx w. py @ 70°.
73.8: 3 cm. calcite w. py. @ 50°
73 : 10 cm. calcite + py - ribbony @ 30°
75.5: color banding @ 60°.
75.8: 2 cm qtz - calcite w. py. & black sphal @ 50°
76.1 - 76.4: calcite seams (2 mm to 3 cm) @ 50°
79.3 - 79.4: sheared @ 30° - FeOx gouge.

Project Lo-sul silver ridge Location Rea Day Property Hole No. 17 Page No. 9 of 6

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE: 89.2%

82.9: 5 cm. qtz w. py(+) @ 40°.
84 - 84.4: calcite - rhyolite bx w. py @ 50°.
87.2 - 90.2: heavily fract. parallel to core & at 30° - FeOx
87.8: 3 mm qtz - arsenopyrite 3m @ 10°.
89.7: 1 cm. qtz w. py, little arsenopy @ 20°.
92.6 - 93.3: heavily fract. @ 50° & parallel to core; FeOx
94.5: 2 cm. FeOx gouge @ 55°.
93.9 - 94.1: tuff banding @ 50°.
94.6 - 94.9: lapilli tuff banding @ 30°
90.9: 2 cm. calcite @ 70°; py.
90 - 94.8: fairly good arsenopyrite & pyrite; estimate 3-5% sulph.
91.3 - 91.7: 5 mm. qtz w. arsenopy. & py. parallel to core.
94.4: 1 cm. qtz with calcite, pyrite & arsenopyrite @ 60°.
94.7: 2 cm. calcite w. py. @ 30°.
95.0: shearing @ 70°; 2 cm. gouge
95 - 96: tuff banding @ 30°.
96.6 - 97.5: tuff breccia banding @ 35°
98 - 98.3: tuff bx banding @ 20°.
99.3: tuff banding @ 30°.
96.5: 1 cm. calcite w. py. @ 30°.
96.8: 1 cm. calcite w. py. @ 20°.
97.9: 5 mm. arsenopy. & py. with qtz @ 20°.
98.5 - 99.0: calcite - rhyodacite bx @ 30° w. py.
99 - 99.4: 2 cm. calcite @ 10° w. py. & arsenopy.
99.7: talc - FeOx shears @ 30°; 1 cm calcite in shear.
94.8 - 100.4: fairly good py.; fair arsenopyrite; Est. 3-4% sulphides.
105: rhyodacite tuff - rhyodacite bx contact @ 40° - flow banding @ 35°.

Project [illegible] Location [illegible] Hole no. [illegible] Page no. 5 of 6

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE: 89.2%

101.6-101.8: sheared @ 30° and parallel to core.
103.3-103.6: sheared @ 20°; talcose with calcite seams.
100.4-100.9: calcite-rhyolite bx @ 30° w. py.
102.2: 2 cm. calcite @ 70°.
103.8: 1 cm. calcite @ 70°.
104: 1 cm calcite @ 10°.
104.2: 1 cm. calcite @ 30° & parallel to core w. py, arsenopy.
104.6: 2 cm. calcite @ 10° w. py.
105: 5 mm. calcite with arsenopy. across beds @ 30°.
105.2: 5 cm. calcite with py. @ 40°.
100.4-105.7: fair py, sparse arsenopy. Est. 3% sulphides.

107.3-110: <u>Rhyolite tuff & tuff-breccia</u>; upper contact @ 20°; light grey to creamy, hard; clasts to 2-3 cm.; thin calcite stringers; pyrite dissem., thin stringers & small masses - estimate 3% sulphides; lightly fractured @ 30°, 40°, 50° & 60°; lower contact @ 30°; sheared & talcose.

110-123.4: <u>Rhyodacite and Dacite tuff and tuff-breccia</u>; fairly hard; tan to grey; spotty epidote; flow banding (ash-flow) textures; estimate 2-3% sulphides; pyrite in seams, patches and disseminations - little arsenopyrite; thin calcite sms (2-5 mm.) @ 20° & 60° with pyrite;

110.3: flow banding @ 10°.
110.7-111.1: shearing @ 10° & 30°; talc & chlorite.
111.7-113.7: flow banding @ 20° in rhyolite tuff & tuff-bx.
114.7-114.9: epidotized @ 10° w. py(+)
115.2: talcose shearing @ 20°.
114.6-117.3: tuff banding @ 20°

Project Consol. Silver Ridge Location Kerr Dug Property note no. 17 Page no. 6 of 6

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE: 89.2 %

118 - 119.7: tuff-banding @ 30° - 40°.
115: 1.5 cm. calcite @ 10°.
119: 3 mm. py. & arsenopyrite sms. @ 30°.
119.1: 1 cm. calcite w. arsenopy. @ 60°.
114.6 - 121.1: fair py; little arsenopy.
121.8: 5 cm. calcite w. py(-) @ 50°
122.2 - 122.8: banding in tuff breccia @ 30°.

123.4 - 126.8: Rhyolite tuff & tuff-breccia: white to grey, hard to cherty; lightly fractured @ 40° & 60°; upper contact @ 50° marked by 1 cm. calcite w. py.; pyrite dissem. & in thin sms., little arsenopy.; estimate 2% sulphides.

126.8 - 135.9: Rhyodacite tuff & tuff-breccia: grey & tan; hard; light fracturing @ 30°, 40°, 70° & 80°; numerous calcite sms (2-10 mm. wide) @ 20° & 40°; pyrite with sparse arsenopy. as dissem., sms. & patches. Est. 2-3% sulphides.
127.4: tuff banding @ 20°
126.8 - 128.3: heavily fract. & sheared parallel to core.
129.5: 1 cm calcite w. py. @ 30°.
130.4: 5 cm. sheared @ 30°.
129.8 - 130: 1 cm. calcite w. pyrite @ 10°.
131.3: 1 cm. calcite w. py(-) @ 30°.
129.7 - 130: py(+) in bands @ 20°.
126.4 - 131.8: fair pyrite; little arsenopyrite; estimate 2-3% sulphides.
133.2 - 135.9: core moderately fract. parallel to core & at 30° and ≤20°.
132.2: 1 cm calcite @ 20°; py(-)
132.6: 6 cm calcite @ 20°; little py

135.9 END OF HOLE.

Project Cuy. 1 S. Iron Ridge Mines — Location Red Dun Property

Hole No. 17 — Page No. 1 of 4

Coordinates: 9554 N 9795 E

Collar elev. 1665 m — Bearing due E.

Inclination -60° — Total Depth 135.9

Contractor Longyear Canada Inc.

Date Started August 4, 1980

Date Finished August 10, 1980

Ref. to Claim Corner

Logged by G. Nuel

CORE											SLUDGE								
Depth Interval					ASSAY						Depth Interval				ASSAY				
From	To	Sample No.	Inches Rec.	% Rec.	Au oz/t	c			L x A		From	To	Sample No.	Lbs. Rec.	% Rec.					
9.1	11.2	258	1.86	89	.047				.0987											
11.2	13.4	259	2.15	98	.023				.0506											
13.4	14.9	260	1.5	100	Tr				0											
14.9	16.1	261	1.2	100	0.10				.1200											
16.1	17.5	262	1.4	100	.059				.0826											
17.5	19.0	263	1.5	100	.011				.0165											
19.0	20.5	264	1.5	100	.021				.0315											
20.5	22.0	265	1.5	100	.023				.0345											
22.0	23.5	266	1.44	96	.102				.1530											
23.5	25.0	267	1.5	100	.061				.0915											
25.0	25.8	268	0.85	106	.025				.0200											
25.8	26.6	269	0.82	103	.034				.0272											
26.6	28.0	270	1.4	100	.007				.0098											
28.0	29.5	271	1.5	100	.005				.0075											
29.5	31.0	272	1.42	95	.009				.0135											
31.0	32.5	273	1.43	95	.019				.0285											
32.5	34.0	274	1.45	97	.011				.0165											
34.0	35.5	275	1.45	97	.039				.0585											
35.5	37.0	276	1.65	110	.009				.0135											
37.0	38.5	277	1.52	101	.014				.0210											
38.5	40.0	278	1.46	97	Tr				0											
40.0	41.5	279	1.48	99	.005				.0075											

Project Consol. Silver Kings Mine Location Red Boy Property Hole No. 1 Page 2 of 4

Depth Interval (m.) From	To	CORE Sample No.	Meters Inches Rec.	% Rec.	Au oz/t	Ag oz/t	ASSAY			Depth Interval From	To	SLUDGE Sample No.	Lbs. Rec.	% Rec.	ASSAY				
41.5	43.0	280	1.5	100	.008				.0120										
43.0	44.5	281	1.5	100	Tr				0										
44.5	46.0	282	1.5	100	.011				.0165										
46.0	47.5	283	1.5	100	.016				.0240										
47.5	49.0	284	1.5	100	.555 .382				.5730										
49.0	50.5	285	1.48	98	.019				.0285										
50.5	52.0	286	1.46	97	Tr.		9.1-50.5	41.4	1.5564 41.4	.037/41.4									
52.0	53.5	287	1.40	93	.013														
53.5	55.0	288	1.35	90	Tr.														
55.0	56.5	289	1.38	92	Tr.														
56.5	58.0	290	1.42	95	.009														
58.0	59.5	291	1.42	95	.034														
59.5	61.0	292	1.41	94	.017														
61.0	62.5	293	1.41	94	.018														
62.5	64.0	294	1.48	99	.014														
64.0	65.5	295	1.5	100	.344														
65.5	67.0	296	1.5	100	.017														
67.0	68.5	297	1.5	100	.062														
68.5	70.0	298	1.5	100	.016														
70.0	71.5	299	1.5	100	.009														
71.5	73.0	300	1.5	100	.012														
73.0	74.5	326	1.5	100	Tr														
74.5	76.0	327	1.5	100	.006														
76.0	77.5	328	1.5	100	.006														

Project Lonesome Wild Ridge Location Ben Do Property Hole No. Page No. 3 of 4

Depth Interval (m)		CORE								Depth Interval		SLUDGE							
					ASSAY										ASSAY				
From	To	Sample No.	Metres Rec.	% Rec.	Au oz/t	Ag oz/t				From	To	Sample No.	Lbs. Rec.	% Rec.					
77.5	79.0	329	1.44	96	.006														
79.0	80.5	330	1.41	94	.007														
80.5	82.0	331	1.47	98	.009														
82.0	83.5	332	1.5	100	.006														
83.5	85.0	333	1.41	94	Tr.														
85.0	86.5	334	1.35	90	.005														
86.5	88.0	335	1.35	90	Tr.														
88.0	89.5	336	1.35	90	Tr.														
89.5	91.0	337	1.41	94	Tr														
91.0	92.5	338	1.46	97	.085														
92.5	94.0	339	1.46	97	.043														
94.0	95.5	340	1.47	98	.043														
95.5	97.0	341	1.48	99	.008														
97.0	98.5	342	1.5	100	.005														
98.5	100.0	343	1.5	100	.005														
100.0	101.5	344	1.5	100	Tr.														
101.5	103.0	345	1.4	94	.019														
103.0	104.5	346	1.39	92	.008														
104.5	106.0	347	1.4	94	.017														
106.0	107.3	348	1.22	94	.010														
107.3	110.0	349	2.7	100	.007														
110.0	112.5	350	2.2	88	.022														
112.5	115.0	351	1.49	99	.006														
115.0	117.5	352	2.42	97	.007														

Project Consol. Silver Kings ... Location ... Day Property ... Hole ... 7 ... Page 4 4

Depth Interval (m) From	Depth Interval (m) To	CORE Sample No.	Metres Inches Rec.	% Rec.	Au oz/t	Ag oz/t.	ASSAY			Depth Interval From	Depth Interval To	SLUDGE Sample No.	Lbs. Rec.	% Rec.	ASSAY				
117.5	120.0	353	2.42	97	.011														
120	123.4	354	3.38	99	.005														
123.4	125.9	355	2.5	100	.005														
125.9	128.5	356	2.0	78	.005														
128.5	131.0	357	2.52	101	Tr.														
131.0	133.5	358	2.39	95	Tr.														
133.5	135.9	359	2.4	100	.012														

Project Gamsol Silver Ridge Location Red Doe Property Contractor Longyear Canada Inc.

Hole No. 18 Page No. 1 of 8 Date Started August 11, 1980

Coordinates: 9526.5 N 9769.7 E Date Finished August 20, 1980

Collar elev. 1672 m. Bearing East Ref. to Claim Corner

Inclination -77° 30' Total Depth 206.3 m. Logged by E. A. Noel

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE: 86.1%

0.-6.1: Overburden.

6.1-23.5: Andesite and Dacite flows & tuffs: grey to black; porphyritic (feldspar phenocrysts); fairly hard; silicified in places; heavily fractured @ 10°, 20°, 40°, 50° & parallel to core FeOx along fractures; spotty epidote; estimate 3% sulphides - pyrite disseminated & alg fractures; lower contact @ 60°

10.0: shearing with 1cm. talcose gouge @ 70°.

10.4: 3 cm. talcose gouge @ 70°.

7.0: calcite sms. @ 40° & 70° w. py(-)

7.3: 3 mm. pyrite stringers @ 20°, 40° & 60°.

7.5-7.9: silicified dacitic tuff w. pyrite; est. 5% sulph; contacts @ 40°.

8.9: 1 cm. quartz-carbonate w. py. @ 30°

10.9-11.1: silicified in bands @ 75°.

10.1-10.3: strongly leached @ 30°

11.3-11.8: 3-10 mm. calcite sms. @ 10° to core; py(+),

12.1-12.6: 1 cm. calcite w. py(+) @ 10°; few specks arsenopy.

17.2-17.4: narrow shears @ 40°.

17.8-18.4: talcose & chloritic gouge @ 70°

18.4-18.7: calcite-dacite breccia @ 60°; calcite with some qtz sms (0.5-1 cm) @ 60° & parallel to core; py(+)

22.9: 1 cm. $CaCO_3$ w. py. @ 50°.

23.5: 0.5 m. gouge @ contact (0.1m. in volc. & 0.4 m. in intrusive)

Project [illegible] Location [illegible] Property Hole no. 8 Page no. 2 of 8

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE: 86.1

23.5 - 50.0 : <u>Quartz Monzonite</u> : grey-green and pink; medium to coarse grained; generally lightly fractured @ 20°, 50° & 60° to core; strongly leached along faults with red hematite altⁿ. Pyrite dissem. & in thin seams @ 30° - Estimate 2% sulphides. Upper contact @ 60°.

25.1: 3 mm. seam arsenopy. @ 20° & 30°.
28.4: 6 cm shearing @ 40°; clayey gouge
30.6 - 30.8: qtz vein @ 30° w. pyrite.
30.8 - 30.9: fault gouge @ 30°
31.4 - 31.6: " " @ 60°.
33.6: 3 mm. qtz with arsenopyrite @ 30°.
36 - 41.4: strongly fractured @ 30°, 50° & parallel to core.
37.0: shearing parallel to core; clayey gouge.
36 - 40: 2-3 mm qtz veinlets @ 70° with py, arsenopy. & little cpy.
42.4 - 42.6: Fault gouge @ 50°.
44.1: shearing @ 40° with 1 cm. gouge.
45.1: shearing @ 50°; 5 mm. chlor. gouge.
45.5 - 45.7: " @ 50°; clay gouge & sand.
41.8: 1 cm. calcite @ 50°.
46 - 47.8: strong fracturing @ 10° & 50°.
47.8 - 50.0: { Fault - with heavy clay gouge from qtz monzonite. Upper contact @ 30°; lower contact @ 60°.

50.0 - 50.9 : <u>Basalt</u> : finely vesicular; hard, FeOx along fractures

50.9 - 54.0 : <u>Quartz Monzonite</u> : as above; heavily fractured @ 10°, 20°, 60° & 70°; FeOx along fractures; heavily sheared lower contact @ 10° for 0.1 m.

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE: 86.1%

54.0-54.7: Basalt: black, finely vesicular, hard; lightly fractured @ 60° & parallel to core; $FeO_x^{(-)}$ along fract.; upper contact @ 10°; lower contact @ 30° to core.

54.7-63.0: Quartz Monzonite: as above; medium grained to porphyritic, pink and grey; strongly leached in places; very heavily fractured @ 70° and parallel to the core; FeO_x along fractures; upper contact 0.2 m. gouge.

55.8-56.6: 1 cm calcite with pyrite$^{(+)}$, arsenopy.$^{(+)}$ & cpy parallel to core.

58.5-60: highly sheared parallel to core and at 30°; somewhat silicified with py$^{(+)}$ & arsenopy. dissem. & as sms.

60-63: heavily sheared @ 30° & 50° - clayey & gougy.

62.3-63: FeO_x alg fract.

63-66: Basalt: black, hard, fine grained, amygdaloidal. - upper and lower contacts @ 10°.

66-81.7: Rhyodacite tuff & tuff-breccia: grey to tan; hard; siliceous; pyrite with a little arsenopyrite as sms & disseminations; Estimate 3% sulphides; thin calcite stringers @ 30° & 50°

66-68: heavily sheared with FeO_x and clay gouge @ 20° & parallel to core

68.9-69.2: tuff banding @ 80°-90° to core.

69.4-69.7: 1 cm. talcose shearing @ 10° to 20° to core

70.5-73.1: strongly fractured @ 30°, 40°, 60° & 80° with FeO_x alg fractures.

74-78.7: considerable sulphides (estimate 5%): pyrite, sphalerite, cpy, arsenopy

76.9-77.0: silicified @ 50° w. py, cpy$^{(-)}$

77.1-77.4: carbonate sms & alteration @ 30° with py$^{(+)}$, ZnS$^{(+)}$, cpy$^{(-)}$, arsenopy.$^{(-)}$

77.9: 4 cm. calcite bands w. py @ 40°; little cpy.

78.5: 1 cm. calcite with py @ 50°

81.0: 1 cm calcite with py, little arsenopy, cpy alg core.

sol. Silver Ridge — Local: Property — 18 — 4 8

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE: 86.1%

81.1: 1 cm. $CaCO_3$ with py. @ 40° to core.

81.4: 5 mm. sm. of pyrite @ 30°.

81.7-85.1: Dacite & dacite tuff & tuff-breccia: grey-green to black; fairly hard; chlorite & spotty epidote alteration; light fracturing @ 30°, 60° & 80°. Pyrite with a little arsenopyrite & cpy in sms & dissem.; estimate 3% sulph.

81.9-82.5: 5 mm py & arsenopy. w. qtz & calcite @ 10° to core

84.8: 5 mm. calcite & qtz w. py., arsenopy., & a little cpy @ 30°.

85.1-119.6: Rhyodacite tuff: grey to cream & tan; hard; lightly fractured @ 20°, 30°, 50° & 60°; $FeO_x^{(-)}$ along fractures; considerable py with a little arsenopy. & cpy.; estimate 3-5% sulphides. both disseminated & as thin veinlets.

85.1-85.8: wavy banding parallel to the core.

86.7: 2 cm. $CaCO_3$ with py. @ 80°.

87.0: 1 cm. calcite @ 30°.

88.1: 1 cm. arsenopy. with calcite @ 60°.

89.8: 2 cm. calcite with py. @ 70°.

90.1: 1 cm. calcite with py. @ 20°.

91.0: 0.1 m. siliceous band @ 80° to core

92.3-92.4: tuff banding @ 50°.

92.4: talc-chlorite shear @ 50°.

92.8-93.0: talcose shearing @ 40°.

93.4: 2 cm. qtz sm. @ 70° with py$^{(-)}$

94.5-94.7: rhyodacite tuff-bx band @ 60°

95.2: 2 cm. calcite-rhyolite breccia band @ 50°.

96.7-97.0: color banding @ 40°.

95.6-101.2: considerable pyrite; estimate >5% sulphides.

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE: 86.1%

102.8 – 103.3: tuff banding @ 30°.
106.3 – 106.4: " " @ 40°.
101.8: 6 cm. quartz with py. @ 50°.
106.7 – 110: dacite breccia; numerous calcite sms.; py. dissem. & as seams. Estimate 3% sulphides.
108.8 – 110: considerable epidote alteration.
108.2: 2 cm. calcite @ 30°
109.5: 1 cm. $CaCO_3$ @ 50°.
111.8 – 111.9: talcose shearing parallel to core.
110.0 – 117.7: light grey-green dacitic tuff with green & black andesite; epidote alteration; talcose fractures; pyrite dissem. & in sms. Estimate 3-4% sulphides.
116.8: Shearing @ 40°-50°; talcose & chloritic.
117.7 – 119.6: light grey and tan rhyodac. tuff; very broken @ 50°, 60° & parallel to core; disseminated py.
118.9 – 119.6: mottled pink K-feldspar alteration; tuff banding @ 50°.

119.6 – 127.0: Dacite, dacitic tuff & tuff-bx: light grey-green to dark green; fairly soft; chlorite alteration particularly along fractures; spotty epidote; fairly well fractured with some shearing; pyrite disseminated and in sms with a little cpy & arsenopyrite; estimate 3% sulphides
119.6 – 124.3: strong fracturing @ 30°, 60° & parallel to core.
119.6 – 120.1: tuff banding @ 50°.
121.0 – 121.8: magnetite dissem. & in small masses.
124.3 – 127.0: weakly fractured @ 60°.
124.3 – 126.2: dacite breccia; vague banding @ 50°; magnetite; considerable epidote & brown garnet alteration.

DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SECTION | ALTERATION | FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE: 86.1 %

125.8: 8 cm. calcite with py(-) @ 50°

126.7-126.9: calcite bx @ 50°; py(+) with yellow brown garnet & epidote

127.0-176.3: Rhyodacite tuff; light grey-green; grey, cream & tan; hard; spotty epidote; pyrite as dissem. & thin seams; little cpy & arsenopy. in places; estimate 3% sulphides.

127-128: tuff banding @ 50°-60°

127.7-128.7: weak fract'g. @ 50°.

129.2-138.0: strongly fractured @ 10°, 40° & 50°.

128.9-129.3: tuff banding @ 50°-60°

132.3-133.5: K-feldspar alteration along fract. & in patches & bands @ 30° & parallel to core.

132.6-132.8: little dissem. MoS_2

138-151: weakly fractured @ 30°, 50°, 60° & 70°

138-139: tuff banding @ 50°-60°.

139-141: rhyodac. tuff-breccia; considerable epidote.

138-141: K-feldspar alteration in bands @ 40° & in patches.

140.9: shearing @ 50°.

142.7-143.0: shearing @ 30° & 50°; talcose & chloritic.

141.7-142.5: tuffaceous banding @ 20°.

143.9-144.1: tuff banding @ 30°-40°.

144.1: 6 cm chert band @ 40°.

144.2-146.1: rhyodacite tuff-bx; pale grey-green with dark altered clasts; spotty epidote.

144.5-144.7: talcose shearing @ 35°.

149.5-150.5: core vy broken @ 10° & 30°

148.1: shearing @ 20°; FeOx & calcite.

148.4-149.2: tuff-bx w. dark clasts.

147.1: tuff banding @ 40°.

Load ... Hole ... 8 ... Page No. 8

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE: 86.1%

149.2 - 149.5: tuff banding @ 35°.
149.7 - 151.4: grey-white rhyolite tuff & tuff-bx with pyrite, little arsenopy & cpy
151.4 - 152.5: gy-green rhyodac. tuff-bx; epidote; tuff banding @ 35°.
154.4 - 156.6: dacite tuff-bx; dk gy tuff banding @ 35°.
156.9 - 159.9: core vy broken; fractures @ 10°, 30° & 50°; FeOx alg fractures.
158.3 - 158.6: tuff banding @ 20°.
159.1 - 159.5: rhyodacite porphyry w. py; feldspar phenocrysts.
159.5 - 160.8: calcite vein @ 20° to core; py; includes bands of rhyodac. bx.
160.9 - 161.2: sheared with talcose gouge @ 30° to core.
160.8 - 176.3: rhyodacite bx; clasts to 5 cm in grey ash matrix; most of sulphides in matrix
161.3 - 161.8: broken & sheared; talcose; fractures parallel to core
161.8 - 165.5: core fairly broken @ 30° & 60°; fine pyrite in matrix & clasts.
165.6: 1 cm. talcose shear @ 30°
167.7 - 168.2: heavily sheared & talcose @ 10° & 30°.
169 - 171.3: sheared & leached parallel to core & @ 30°; talcose.
166.1 - 168.2: pyrite bands @ 40°.
169 - 169.7: pyrite & arsenopyrite in bands @ 60°.
171.3 - 176.1: core very broken & sheared @ 10° & 40°;

176.3 - 183.0: Rhyodacite - Calcite Breccia: grey, tan & white; rhyodacite tuff veined by considerable white calcite; fairly broken @ 30°, 50° & 60°; Fine pyrite in dissem. & patches with a little cpy. and arsenopyrite.

183.0 - 206.3: Rhyodacite tuff and tuff-breccia: tan and grey, fairly hard; numerous thin calcite stringers @ 10°, 40°, 50°, 80° & parallel to core; upper contact @ 50°; pyrite with a little cpy. and arsenopy as dissem. and thin seams at random orientation; estimate 3% sulphides.
183 - 187.5: core fairly broken @ 20°, 30° & 60°
183.2: shearing @ 30°; talcose gouge (5 mm.)

Project ... 1.5 ... Mine ... Location ... Property ... Date ... 15 ... Page No. 8 of 8

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE: 86.1%

183.6: talcose shearing @ 80° (5mm)
185: " " @ 30° (5mm)
187.2 - 193.6: moderate fracturing @ 10°, 30°, 50°, 60° & 70°; numerous thin calcite sms. < 0.5 cm. parallel to core & @ 30°, 60° & 80°.
187.6: 1 cm calcite w. py. @ 30°
188.1: 1 cm. veins calcite with py. @ 50° & 70°.
189.1: 1 cm. calcite @ 70°.
191.8: 1 cm. calcite @ 40°.
193.6 - 198.7: lightly fractured @ 30°, 50° & 70°; thin (5mm) calcite stringers @ 30°, 50°, 60° & parallel to core.
193.8: 2 cm. talcose gouge @ 70°.
193.9: 1 cm. calcite with py. @ 30°
194.3: 1 cm. qtz + calcite with py. @ 30°.
195.9: 1 cm. calcite with py. @ 20°
196.1: " " " " @ 70°.
196.5: 3 cm. calcite with py. @ 60°
198.5: 3 cm. calcite with py. @ 40°.
203.9 - 204.0: tuff banding @ 60°
198.7 - 206.3: core fairly well fractured @ 20°, 30°, 50°, 60° & 70°; few calcite seams @ 20°, 50° & 70°.
206.3 - END OF HOLE -

Proj. Tung 1 Silver Ridge Mines Location Red Dog Property Contractor Lunavear Canada Inc.

Hole No. 18 Page No. 1 of 5 Date Started August 11, 1980

Coordinates: 9526.5 N 9769.7 E Date Finished August

Collar elev. 1672 m. Bearing East Ref. to Claim Corner

Inclination -77°30' Total Depth 206.3 m. Logged by G. A. Noel

Depth Interval m.		CORE								Depth Interval		SLUDGE							
					ASSAY										ASSAY				
From	To	Sample No.	Metres Inches Rec.	% Rec.	Au oz/t.	Ag oz/t.			Lx A	From	To	Sample No.	Lbs. Rec.	% Rec.					
6.1	8.0	360	1.51	79	.006														
8.0	10.0	361	1.78	89	Tr.														
10.0	12.0	362	1.87	78	.008														
12.0	14.0	363	1.71	86	Tr.														
14.0	16.0	364	1.68	84	.005														
16.0	18.0	365	1.61	81	.026														
18.0	20.0	366	1.82	91	.010														
20.0	22.0	367	1.88	94	.005														
22.0	23.5	368	1.18	79	.010														
23.5	25.0	369	1.24	82	.010														
25.0	27.0	370	2.0	100	.010														
27.0	29.0	371	1.86	93	.069				.1380										
29.0	31.0	372	1.76	88	.177				.3540										
31.0	33.0	373	1.66	83	.023				.0460										
33.0	35.0	374	1.42	71	.012				.0240										
35.0	37.0	375	1.26	63	.025				.0500										
37.0	39.0	376	1.26	63	.016				.0320										
39.0	41.0	377	2.2	73	.005				.0100										
41.0	43.0	378	1.7	85	.006				.0120										
43.0	45.0	379	1.73	86	.005				.0100										
45.0	47.8	380	2.04	73	.036				.1008										
47.8	50.0	3,81	1.56	71	.019				.0418										

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Depth Interval m. From	To	CORE Sample No.	Metres Inches Rec.	% Rec.	Au oz/t.	Ag oz/t.	ASSAY			L x A	Depth Interval From	To	SLUDGE Sample No.	Lbs. Rec.	% Rec.	ASSAY				
50.9	54.0	382	0.9	29	.033					.1023										
54.7	57.0	383	1.45	63	.658					1.5134										
57.0	58.5	384	1.16	77	.024					.0360										
58.5	60.0	385	1.16	77	.043					.0645										
60.0	63.0	386	2.67	89	.013					.0390										
66.0	68.0	387	1.79	90	.027					.0540										
68.0	69.5	388	1.27	84	.009					.0135										
69.5	71.5	389	1.71	85	.008					.0160										
71.5	73.0	390	1.24	83	.006					.0090										
73.0	75.0	391	1.98	99	.010					.0200										
75.0	76.5	392	1.76	85	.006					.0090										
76.5	78.0	393	1.66	110	.079					.1185										
78.0	79.5	394	1.26	84	.057					.0855										
79.5	81.0	395	1.26	84	.028					.0420										
81.0	82.5	396	1.44	96	.093					.1395										
82.5	84.0	397	1.5	100	.033					.0495										
84.0	85.5	398	1.5	100	.012					.0180										
85.5	87.0	399	1.5	100	.005					.0075										
87.0	88.5	400	1.5	100	Tr					0										
88.5	90.0	401	1.5	100	.007					.0105										
90.0	91.5	402	1.5	100	.123					.1845										
91.5	93.0	403	1.5	100	.005					.0075										
93.0	94.5	404	1.48	99	.011					.0165										
94.5	96.0	405	1.47	98	.083					.1245										
										2.6807										

Project Consol Silver Ridge Mine Location Rea Dog Property Hole No. 8 Page No. 3 of —

Depth Interval m. From	To	CORE Sample No.	Inches Rec.	% Rec.	ASSAY Au oz/t	Ag oz/t			Σ A	Depth Interval From	To	SLUDGE Sample No.	Lbs. Rec.	% Rec.	ASSAY				
96.0	97.5	406	1.46	97	.119				.1785										
97.5	99.0	407	1.46	97	.005				.0075										
99.0	100.5	408	1.48	99	.121				.1815										
100.5	102.0	409	1.5	100	.077				.1155										
102.0	103.5	410	1.48	99	Tr.		27-102-75		.4830	3.9823 / 15	.053/15								
103.5	105.0	411	1.46	97	.013														
105.0	106.5	412	1.43	95	.010														
106.5	108.0	413	1.4	93	.005														
108.0	109.5	414	1.5	100	.005														
109.5	111.5	415	1.8	90	.027														
111.5	113.0	416	1.37	91	.053														
113.0	115.0	417	1.96	98	.007														
115.0	117.0	418	1.88	94	.009														
117.0	118.9	419	1.41	74	.009														
118.9	120.0	420	0.95	86	TR														
120.0	122.0	421	1.99	99	TR														
122.0	124.5	422	1.96	78															
124.5	127.0	423	2.5	100	TR														
127.0	129.0	424	1.67	84	TR														
129.0	131.0	425	1.19	60	.005														
131.0	133.0	426	1.3	65	TR														
133.0	135.0	427	1.44	72	TR														
135.0	137.0	428	1.29	64															
137.0	139.0	429	1.16	58	TR														

Project Consol. Silver Bridge Location Red Dog Property Hole No. 18 Page No 1 of —

Depth Interval From	Depth Interval To	CORE Sample No.	M. Inches Rec.	% Rec.	ASSAY Au oz/t.					Depth Interval From	Depth Interval To	SLUDGE Sample No.	Lbs. Rec.	% Rec.	ASSAY				
139.0	141.0	430	2.14	107	.009														
141.0	143.0	431	1.61	81	Tr														
143.0	145.0	432	1.56	78	Tr.														
145.0	147.0	433	1.86	93	Tr.														
147.0	149.0	434	1.84	92	Tr.														
149.0	151.0	435	1.62	81	Tr.														
151.0	153.0	436	1.92	96	Tr.														
153.0	155.0	437	1.77	88	TR														
155.0	157.0	438	1.86	93	.008														
157.0	159.0	439	2.0	100	TR														
159.0	161.0	440	1.90	95	.005														
161.0	163.0	441	1.85	92	.005														
163.0	165.0	442	1.82	91	.005														
165.0	167.0	443	2.03	102	TR														
167.0	169.0	444	2.01	101	.007														
169.0	171.0	445	1.84	97	.013														
171.0	173.0	446	1.84	97	.018														
173.0	175.0	447	1.90	95	TR														
175.0	177.0	448	1.82	91	TR														
177.0	179.0	449	1.82	91	TR														
179.0	181.0	450	1.88	94	.007														
181.0	183.0	451	1.87	94	TR														
183.0	185.0	452	1.86	93	.009														
185.0	187.0	453	1.14	59	.014														

Project Consol Silver Ridge Location Red Dog Property Hole No. 10 Page no 5 of —

Depth Interval		CORE								Depth Interval		SLUDGE							
		Sample No.	Inches Rec.	% Rec.	ASSAY							Sample No.	Lbs. Rec.	% Rec.	ASSAY				
From	To				Au					From	To								
187.0	189.0	454	1.72	86	.013														
189.0	191.0	455	1.28	64	.007														
191.0	193.0	456	2.03	102	TR														
193.0	195.0	457	2.01	101	TR														
195	197	458	1.94	97	TR														
197	199	459	1.36	68	.007														
199	201	460	1.30	65	TR														
201	203	461	1.30	65	TR														
203	206	462	1.30	65															

Prop[illegible] [illegible] ·Location [illegible] · Contractor Lunavore Canada Inc.

Hole No. 19 · Page No. 1 of 7 · Date Started August 20, 1980

Coordinates: 9581.6 N, 9766.3 E · Date Finished August 26, 1980

Collar elev. 1668 m. · Bearing East · Ref. to Claim Corner

Inclination −85° · Total Depth 171.2 metres · Logged by G.A. Noel

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:
									86.1%

0 - 11.9 : Casing (partly overburden).

11.9 - 99.7: Quartz monzonite: med. grained grey, to light green, pink and tan; porphyritic (feldspar phenos.); heavily sheared and leached alg contacts; dissem. py & few py. sms., little cpy; few specks molybdenite; few thin calcite & quartz stringers; estimate 2% sulphides.

11.9 - 18.1: light fracturing @ 30°, 40°, 50°, 70° & 10°; FeOx alg fractures.

13.1 - 13.5: shearing @ 10° & 30°; FeOx gouge.

13.5 - 14: rhyodacite tuff @ 30°; calcite veinlets to 2 cm. @ 10°.

14.4: 5 mm. gouge @ 70°.

14.8 - 19.1: altered dacite; dk. brown to black; fairly soft; contacts @ 60°; FeOx alg fractures; calcite stringers @ 30°; pyrite disseminated & in stringers; little cpy & ocnl. speck MoS_2. Estimate 3% sulphides.

18.1 - 23.4: lightly fractured @ 40°, 50° & 60°; $FeO_x^{(-)}$ alg fractures.

18.8 - 19.0: shearing @ 70° & parallel to core; 5 mm. gouge seams.

20.5: 3 cm clay gouge @ 70° along qtz monz. - Volc. contact

23.1 - 23.3: thin shears @ 10°; $FeO_x^{(-)}$

20.5 - 22.2: dk br. to bl. altered dacite; contacts @ 70°; upper contact sheared, lower contact sharp; 1 cm. qtz & calcite seams @ 30°; fair pyrite w. little arsenopyrite. Est. 3-4% sulphides

23.4 - 28.9: lightly fractured @ 20°, 30°, 50°, 60° & 80°; little FeOx

25.7: 3 cm. clay gouge @ 30° & 70°.

Project Consol. Silver Ridge Location Red Dog Property Hole No. 19 Page No. 2 of 7

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE: 86.1%

28.9 - 34.5: lightly fractured @ 50°, 60° & 70°.
31.5 - 32.0: shearing parallel to core; clay gouge.
34 - 34.5: shearing @ 20°; gougy; 4 x 1-cm. qtz-calcite seams w. py, arsenopyrite; also dissem. arsenopyrite.
34.5 - 40.7: very strongly leached & sheared @ 30° & parallel to core; core soft & gougy; highly altered qtz monzonite; talc & chlorite seams; 5mm. qtz & calcite seams @ 30° & 60° w. py & arsenopy.
40.7 - 42.1: fairly strongly leached & sheared @ 60° & 40°
42.1 - 46.1: light fracturing @ 40°, 50° & 60°.
42.5: sheared with 1cm. gouge @ 40°.
45.2: " " " " @ 70°.
42.4: 5mm. qtz w. py, cpy @ 60°.
42.7: 6cm. silicified seam w. py. @ 50°
44.8: 1 cm. qtz w. py., cpy @ 40°.
46.1 - 51.3: light fracturing @ 10°, 50° & 60°.
46.9: 4cm. gouge @ 70°
47.7: 2cm " @ 60°.
49.7 - 50.4: sheared @ 40° - gougy & leached.
50.6: 9 cm. gouge & shearing @ 40°.
46.7: 5mm. qtz w. py, arsenopy. & cpy. @ 50°
47.0: 2mm. qtz " " " @ 40°.
48.6: 3 mm. qtz w. py. cpy, arsenopy @ 50°.
51.3 - 51.4: clay gouge @ 50°
52.8 - 53.1: " " @ 60°.
53.7 - 53.8: " " @ 60°

Project Consol. Silver Ridge Location Red Dog Property Hole No. 19 Page No. 3 of 7

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE: 86.1%

52.3: 1cm. qtz w. py. @ 60°
53.1: 5cm. qtz & calcite w. py. @ 60°
53.7-53.8: arsenopyrite (+) with cpy. & py.
54.5: 1 cm. qtz with py., arsenopyrite, cpy @ 40°
56.4-62: light fracturing @ 30°, 40°, 70° & 80°; few thin qtz stringers w. Py, little arsenopy @ 30°, 40°, 50°
57.6-60.9: heavily sheared & leached; gougy @ 10°, 30° & 50°
62-67.1: lightly fractured @ 30°, 50°, 60° & 70°; 5-10 mm. qtz. & calcite seams @ 30°, 40°, 50° & 80° w. py. & little cpy.
62.9: 5mm. clay gouge @ 50°
67.1-72.2: light fracturing @ 20°, 30°, 50°, 60° & 70°
67.4: 5cm. calcite @ 70°; py.
68.6: 5 mm. calcite w. py. @ 30°.
69.0: " " " @ 70°
69.2: 5 mm. qtz. w. py. @ 50°
69.3: 2 x 5 mm. qtz-calcite w. py. @ 30°
69.6: 1 cm. qtz w. py., cpy. @ 40°; 3 cm. calcite breccia w. py @ 40°
70.1: 1 cm. gouge @ 60°
71.7: 5mm. qtz. w. py., cpy @ 30°
72.7-77.8: lightly fractured @ 30°, 60° & 70°.
72.4: shearing @ 20° & a/g core.
73.1-73.2: fault gouge @ 70°.
77.5-77.7: sheared & gougy @ 60°
73.7: 5 mm. qtz w. py. & cpy. @ 30°
74: 1cm. qtz. " " " @ 30°.
77.8-83.: fairly well fractured @ 10°, 30°, 40° & 60°.
78.1: 2 cm. clay gouge @ 20°
78.3: 1cm clay gouge @ 30°; 1 cm. qtz w. py., cpy @ 20°

Project Consol. Silver Ridge Location Red Dog Property Hole No. 19 Page No. 4 of 7

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE: 86.1%

80 - 80.2: clay gouge @ 40°
80.3: 3cm. " " @ 40°
81.2: 2cm. " " @ 20°
81.9: 1cm " " @ 30°
78.5: 1 cm. qtz. w. py. & cpy @ 20°.
81.1 - 81.4: rhyolite bx @ 40° w. dissem. py.
82.2: 1 cm. qtz. w. py, little arsenopy. @ 30°
82.5: 1 cm. qtz w. py. & cpy. @ 20°
82.8: 1 cm. qtz w. py. & cpy. parallel to core.
83 - 88: moderate fracturing @ 30°, 40°, 60°, 70° & 80°.
84.3 - 84.4: clay gouge @ 30°
84.9 - 85.1: shearing @ 30°, 70° & parallel to core.
85.6 - 86.2: sheared @ 30° - clay gouge.
87.3: 6 cm. clay gouge @ 40°.
83.9: 5 mm. qtz w. py, cpy @ 10°
87.1: 5 mm. qtz w. py. @ 10° to core.
88.6 - 89.8: shearing @ 30° & 60°; clay gouge.
91.8 - 93.0: heavily sheared @ 60° & parallel to core.
88 - 93.8: core very broken @ 30°, 60° & parallel to core.
93.8 - 98.7: moderately fractured @ 20°, 30°, 40°, 50°, 60° & 70°
94.6: 2 cm. gouge @ 40°
96.6: 5 mm py & cpy in qtz @ 20°.
97.1: 1 cm. qtz w. calcite & py, cpy & arsenopy. @ 20°

99.7 - 100.8: <u>Rhyodacite - calcite breccia</u>; grey, fairly hard; calcite veinlets; upper contact @ 40°; lower contact @ 50°; pyrite dissem. mainly through rhyolite matrix; estimate 3% sulphides.

Project Lens. Silver Ridge Location Red Dog Property Hole No. 19 Page No. 5 of 7

DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SECTION | ALTERATION | FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE: 86.1%

100.8 - 156.2: Rhyodacite tuff & tuff breccia; grey & tan; fairly hard; calcite wisps throughout; pyrite in seams & disseminated with arsenopy. & cpy in places; estimate 3% sulphides.

98.7 - 103.1: core very broken @ 30°, 60° & parallel to core.

99.7 - 99.9: clay gouge @ 40° @ contact between qtz monz. & rhyodac. tuff.

100.5: 1 cm clay gouge @ 40°

101 - 101.1: clay gouge @ 40°.

102 - 103.6: shearing with clay gouge @ 50° & parallel to core.

101.5 - 101.8: 1 cm. qtz w. py., cpy. & arsenopy. @ 30° & parallel to core.

103.1 - 108.3: core very broken; fractured @ 50° & parallel to core.

104.5: 1 cm. clay gouge @ 20°.

106.3: 5 mm. " " parallel to core"

105: 8 cm. calcite @ 40°.

103.9: tuff banding @ 20°

108.3 - 113.4: core very broken @ 20°, 30°, 50° & 60°.

110.4 - 110.8: sheared with clay gouge.

111.5 - 111.9: shearing parallel to core & @ 40°; clay gouge.

112.9 - 117: " " " & @ 60°; " "

110.3: 2 cm. calcite with py. @ 60°.

110.4 - 111.2: good arsenopyrite mineralization.

112.4 - 113.4: " " "

113.4 - 120.5: strongly sheared & leached.

117.4 - 117.6: sheared & gougy @ 50°

118.1 - 119.1: sheared; clay gouge @ 60°

119.9 - 120.1: " " " @ 50°

120.3: sheared; clay gouge @ 40°

117.6: tuff banding @ 55°

117.9 - 118: numerous 1 cm calcite seams @ 40°.

Project Cons. Silver Ridge Location Red Dog Property Hole No. 19 Page No. 6 of 7

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE: 86.1%

119.3 - 120.9: calcite - rhyodacite breccia
119.5: tuff banding @ 30°
120.5 - 126.8: light fracturing @ 30°, 40° & 60°, except where sheared.
123.2 - 126.5: heavily sheared & leached @ 20°, 30°, & 40°; gougy in places.
120.9 - 123.2: olivine basalt (Edziza); contacts @ 30°; chilled margins; shearing in older volcanics; few specks pyrite.
124 - 124.2: calcite patches & irregular stringers to 1 cm. in width.
125.9 - 126.8: " " " " " "
126.8 - 132.1: core fairly well broken @ 20°, 40°, 50°, 60° & parallel to core.
130.3 - 131.4: gougy with shearing @ 30° & parallel to core.
127.5 - 127.8: 1 cm. calcite w. py., cpy., & arsenopy. parallel to core.
127.8 - 128.5: Calcite - rhyodacite bx with good arsenopy. mineralization.
129.6: 5 cm. calcite w. py. @ 50°.
129.9 - 132: rhyodacite - calcite bx. with py.
132.2 - 133.2: sheared & gougy @ 30°
132.1 - 131.7: weakly fractured @ 40°, 50°, 60° & 70°.
133.6 - 133.8: Sheared & gougy @ 50°.
135.9 - 136.2: " " @ 20°
136.2 - 137.1: Calcite seams (3 - 10 mms.) @ 30°, 40°, 50° & 70°.
137.7 - 142: fairly well fractured @ 20°, 30°, 50° & 60°.
139.1: sheared & gougy @ 30°; 2cm. gouge.
139.7: 5 cm. clay gouge @ 30°
141.7 - 141.9: sheared w. clay gouge @ 40°.
138.1: 1 cm. calcite @ 10° w. py
138.6: 1 cm. calcite w. py. @ 40°.
139.6 - 139.7: Calcite w. py. @ 60°.
140.5: 2cm calcite sm. w. py. @ 40°
141 - 142: 5 - 10 mm calcite sms. @ 30° &

Project Consol. Silver Ridge Location Red Dog Property Hole No. 19 Page No. 7 of 7

DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SECTION | ALTERATION | FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE: 86.1%

142.1 - 147: fairly broken @ 30°, 50°, 80° & parallel to core.
142.5: 5mm calcite & qtz @ 50°
142.9 - 143: myriad of calcite stringers w. py.
143 - 143.1: tuff & tuff-bx banding @ 50°.
143.5 - 143.6: 5mm. - 1cm. calcite sms. @ 30°.
143.9 - 144.1: rhyodacite tuff-bx with good arsenopy. in bands @ 10°; 1cm. calcite seams @ 30° & 50°.
144.7 - 145.1: tuff-breccia banding @ 60° to core.
145.4: 1 cm. talcose & chloritic gouge @ 50°.
145.4 - 145.5: tuff banding @ 40°.
146.9: tuff banding @ 40°.
148.4 - 148.7; 149.8 - 150.3 & 151 - 151.4: core very broken.
147 - 149.2: 0.3 - 1.0 cm. calcite stringers @ 30°, 40°, 50°, 70° & parallel to core
149.9: 4 cm. calcite @ 50°.
149.2 - 149.4: talcose shearing @ 40°
151: 1 cm. calcite w. py. @ 20°.
152 - 157.8: core lightly fractured @ 40°, 50°, 60° & 70°.
154.2 - 156.2: heavily sheared & gougy @ 30° & 40°
152.7 - 156.2: rhyodacite breccia & tuff-bx; tan & grey; strongly leached.
156.2 - 171.2: Dacite & andesite tuff & breccia: dk grey & brown to dark green; spotty epidote in places; pyrite dissem. & in seams; estimate 3% sulphides; includes some bands rhyodacite.
152.7: 6 cm. calcite w. py @ 60°
153.5 - 154.5: 2 mm - 2 cm. calcite seams @ 60° & parallel to core.
156.4: 1.5 cm. qtz w. py. & cpy. @ 50°
159.7 - 162.5: core well fractured @ 20° 50°, & 60°
160.5 - 160.6: sheared @ 50°.
162 - 162.1: " @ 50° & 20°.
163.4 - 169: lightly fractured @ 20°, 30°, 40°, 50° & 60°
165.4: 2 cm. calcite w. py., arsenopy. & sphalerite @ 30°.
168.5: 1.5 cm. qtz & calcite @ 70°
169.7: 3 cm. calcite @ 50°.
169.8 - 170.5: 0.3 - 1.5 cm. calcite seams @ 20°, 60°, 70° & parallel to core.
171.2: END OF HOLE.

Project Coal Silver Ridge Location Red Dog Hole No. 19 Page No 1 of 1

Depth Interval From	Depth Interval To	CORE Sample No.	Meters Inches Rec.	% Rec.	ASSAY Au oz/t	Depth Interval From	Depth Interval To	SLUDGE Sample No.	Lbs. Rec.	% Rec.	ASSAY
11.9	13.5	463	0.8	50	.005						
13.5	14.8	4	0.96	81	TR						
14.8	17.0	5	1.78	81	.007						
17.0	19.1	6	1.70	81	.013						
19.1	20.5	7	1.25	89	.008						
20.5	22.2	8	1.58	93	TR						
22.2	24.0	9	1.69	94	.006						
24.0	26.0	470	2.0	100	.006						
26.0	28.0	1	2.12	106	.008						
28.0	30.0	2	2.12	106	.006						
30.0	32.0	3	2.12	106	.006						
32.0	33.5	4	1.14	76							
33.5	35.0	5	1.14	76	.164						
35.0	36.5	6	1.23	82	.005						
36.5	38.0	7	1.50	100	.072						
38.0	39.5	8	1.50	100	034						
39.5	41.0	9	1.50	100	.010						
41.0	42.5	480	1.50	100	.056						
42.5	44.0	1	1.50	100	.068						
44.0	46.0	2	2.00	100	.014						
46.0	48.0	3	1.87	94	.017						
48.0	50.0	4	1.68	84	.008						
50.0	51.5	5	1.40	93	.010						
51.5	53.0	486	1.48	99	.003						

Project Cons Silver Ridge Location Red Dog Hole No. 19 Page No 2 of 4

Depth Interval From	Depth Interval To	CORE Sample No.	Inches Rec.	% Rec.	ASSAY Au					Depth Interval From	Depth Interval To	SLUDGE Sample No.	Lbs. Rec.	% Rec.	ASSAY				
53.0	54.0	487	2.00	100	.009														
54.0	55.5	88	1.47	98	.229														
55.5	57.0	89	1.40	93	.005														
57.0	58.5	490	1.42	95	.010														
58.5	60.0	1	1.50	100	.012														
60.0	61.5	2	1.50	100	.010														
61.5	63.0	3	1.50	100	.025														
63.0	65.0	4	1.50	100	.005														
65.0	67.0	5	1.50	100	.016														
67.0	69.0	6	1.50	100	.025														
69.0	71.0	7	1.50	100	.039														
71.0	73.0	8	1.50	100	.087														
73.0	75.0	9	1.95	98	.013														
75.0	77.0	500	1.92	96	.012														
77.0	79.0	1	1.88	94	.041														
79.0	81.0	2	1.80	90	.008														
81.0	83.0	3	2.07	104	.004														
83.0	85.0	4	2.00	100	.047														
85.0	87.0	5	1.88	94	.026														
87.0	89.0	6	1.77	89	.028														
89.0	91.0	7	1.88	94	.007														
91.0	93.0	8	1.42	71	.011														
93.0	95.0	9	2.00	100	.027														
95	97	510	2.00	100	.085														

Project LONG SILVER RIDGE Location RED DOG Hole No. 19 Page No 3 of 7

Depth Interval From	Depth Interval To	CORE Sample No.	Inches Rec.	% Rec.	ASSAY Au					Depth Interval From	Depth Interval To	SLUDGE Sample No.	Lbs. Rec.	% Rec.	ASSAY				
97.0	99.7	511	2.68	99	.022														
99.7	101.4	2	1.63	96	.057														
101.4	102.4	3	.81	81	.349														
102.4	103.4	4	.81	81	.197														
103.4	105.0	5	1.34	84	.023														
105.0	107.0	6	1.78	89	.015														
107.0	110.0	7	1.35	78	.012														
110.0	111.0	8	.52	52	.040														
111.0	112.4	9	.77	.55	.014														
112.4	113.4	520	.60	60	.036														
113.4	117.0	1	2.00	56	.019														
117.0	119.0	2	1.90	95	.009														
119.0	120.9	3	1.75	91	.007														
123.2	125.0	4	1.45	81	.012														
125.0	127.0	5	1.21	61	.007														
127.0	128.5	6	1.38	92	.009														
128.5	130.0	7	1.38	92	.007														
130.0	132.0	8	1.89	95	Tr														
132.0	134.0	9	1.92	96	Tr														
134.0	136.0	530	1.80	90	Tr														
136.0	138.0	1	1.90	95	Tr														
138.0	140.0	2	1.92	96	Tr														
140.0	142.0	3	1.94	97	Tr														
142.0	144.0	534	1.60	80	Tr														

Project Long Silver Ridge Location Rev Dog Hole No. 19 Page no 4 of 4

Depth Interval From	Depth Interval To	CORE Sample No.	Inches Rec.	% Rec.	ASSAY Au	Depth Interval From	Depth Interval To	SLUDGE Sample No.	Lbs. Rec.	% Rec.	ASSAY
144.0	145.0	535	.83	83	TR						
145.0	147.0	6	1.76	88	.006						
147.0	149.0	7	1.88	94	.005						
149.0	151.0	8	1.88	94	.005						
151.0	153.0	9	1.80	90	TR						
153.0	154.5	540	1.23	82	TR						
154.5	156.2	1	1.50	100	TR						
156.2	158.0	2	1.80	100	.007						
158.0	160.0	3	2.00	100	.005						
160.0	162.0	4	1.52	76	.005						
162.0	164.0	5	1.94	97	TR						
164.0	166.0	6	1.90	95	TR						
166.0	168.0	7	1.86	93	TR						
168.0	170.0	8	2.00	100	TR						
170.0	171.2	549	1.20	100	TR						

Average Recovery = 86 %

Project: Consol. Silver Ridge Location: Red Dog Prop. 1. Contractor: [illegible]
Hole No. 20 Page No. 1 of 8
Coordinates: 9706.5 N 9834.2 E
Collar elev. 1585 m. Bearing East
Inclination -65° Total Depth 151.5 metres.
Date Started August 27, 1980
Date Finished August 31, 1980
Ref. to Claim Corner
Logged by G. A. Noel

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE: 98.3%

0 - 6.1: CASING

6.1-32.3: Porphyritic Quartz Monzonite: grey to greenish grey; feldspar phenocrysts; fairly hard; pyrite dissem. & alg fracts; arsenopyrite in veinlets & disseminated; little cpy.

6.1-12.2: lightly fractured @ 40°, 50°, 80° & parallel to core; FeOx
6.5-6.6: arsenopyrite in seams & disseminations.
8.1: 3 mm. seam arsenopyrite with sphalerite, cpy. & py. @ 70°.
8.3: 1 cm. qtz-calcite with sphalerite, py & cpy. @ 50°
8.4: 5 mm seam calcite with arsenopy, py. @ 40°.
9.0: 1 cm. qtz with py, cpy. & arsenopy. @ 40°.
9.2: 2 mm. qtz w. py., cpy, & arsenopy.(-) @ 50°.
9.3: 3 mm. qtz w. py. cpy arsenopy parallel to core.
9.7: 3 mm. qtz w. py, cpy @ 40°.
10.0: 3 mm. sphalerite, py, cpy, arsenopy @ 30°.
11.1-11.5: 1-2 mm. py & cpy seams @ 20°, 30° & 60°.
12.2-17.4: lightly fractured @ 30°, 40°, 50° & 60°; FeOx alg fractures.
17.2: rusty clay gouge. @ 55°.
12.6: 2mm. py., arsenopy., cpy. @ 20°
13.0: 2mm py. & cpy. @ 40°
13.4: 2mm. seams py. w. arsenopy. @ 60°.
13.9: 3 mm. py., arsenopy, cpy @ 40°
14.8: 3 mm. qtz w. py, arsenopy cpy @ 70°.
15.2: 2mm sms qtz w. arsenopy, py & cpy @ 40°.
15.3: 5mm. qtz w. arsenopyrite(+) @ 50°.
15.4: 1 cm. qtz w. py, arsenopy(+) @ 50°.

Project Consol. Silver Ridge Location Red Dog Property Hole No. 20 Page No. 2 of 8

DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SECTION | ALTERATION | FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE: 98.3%

15.8: 1 cm. py, cpy & qtz @ 40°.
16.5: 1 cm. qtz. w. arsenopy.(+) @ 40°.
17.3: 1 cm. qtz - calcite w. py. & arsenopy. @ 30°
17.4 - 23.2: lightly fractured @ 20°, 30°, 40°, 50° & 60°; $FeO_x^{(-)}$ alg fractures.
17.7: 1 cm. clay gouge @ 40°
17.8: 2 cm. calcite & calcite breccia w. py. & cpy. @ 60°.
18.0: 1 cm. calcite & qtz. w. py., cpy @ 30°.
18.7: 1 cm. qtz - calcite with py. @ 50°.
20.4: little dissem arsenopyrite
20.7 & 20.8: 2 mm. py. & cpy. @ 65°.
21.0: 1 cm. calcite @ 40°
21.1 - 21.3: little disseminated arsenopy
21.4: 2 mm. py. w. cpy. @ 40° & 80°
22.0: 2 mm. py. @ 80°
22.1: 2 mm. py. @ 50°
22.3: 2 mm. py & arsenopy. @ 60°.
22.5: 1 cm. calcite with arsenopy(+) @ 30°.
23.0: 5 mm. qtz w. py & arsenopy. @ 50°
23.2 - 28.4: lightly fractured @ 30°, 50°, 60°, 70° & 80°; $FeO_x^{(-)}$
23.3 - 24.1: dissem. py, cpy. & arsenopy.
24.7: 1.5 cm. qtz - calcite w. py., cpy, arsenopy(-) with <u>few specks visible gold.</u>
25.9 - 26.1: 2 mm. qtz sms. w. py @ 50° - 70°.
27.7: 1 cm. qtz - calcite with arsenopyrite(+) & cpy @ 50°.
28.4 - 32.3: moderately fractured. @ 20°, 30°, 60° & parallel to core; $FeO_x^{(-)}$
29.4: 2 mm. qtz. w. arsenopy. @ 60°
30.7: 3 mm. qtz. with py. & cpy. @ 70°
30.9: 2 x 3 mm. sms. py, cpy & arsenopy @ 50° & 60°.

Project Consol. Silver Ridge Location Red Dog Property Hole No. 20 Page No. 3 of 8

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE: 98.3%

32.2: 1mm. & 2mm. sms. qtz. w. py. & arsenopy & cpy. @ 50°.

32.3 - 51.8: Andesite & Dacite: dark brown to black; altered; fairly hard; numerous thin qtz and calcite stringers; spotty epidote; chlorite alteration in places; py. w. cpy. in places; est. 2-3% sulph.

32.3 - 32.4: qtz monzonite veinlets w. py., arsenopy.

33.2: 1cm. qtz w. py. & cpy @ 60°.

33.4: 3 mm. calcite w. py., cpy. @ 20°

32.3 - 38.8: moderately fractured @ 20°, 30°, 50°, 60° & 80°

36.1 - 36.3; talcose shearing @ 20° & 50°

36.5 - 36.8: " " @ 50° & parallel to core.

37.7 - 37.9: " " @ 20° & 50°

34.4: 5mm. qtz with py. & cpy. @ 30°.

34.7: 1 cm. qtz with py., cpy @ 50°.

35.2: 1 cm. qtz & calcite w. py., cpy. @ 60°.

35.9: 3 mm. qtz w. py., cpy & epidote @ 50°

36.6: 3 mm. py., cpy. @ 70°.

36.9: 1-3 mm. sms. py. & cpy. @ 30°

37.1: 3mm. qtz w. py., cpy. @ 60°.

38.1: 3 mm. qtz w. py. & cpy @ 35°

38.6: 4mm. qtz. w. py. & cpy. @ 40°.

38.7: 5 mm. qtz. w. py. & cpy. @ 30°

38.7 - 44.5: light fracturing @ 20°, 30°, 50°, 60° & parallel to core.

39.3 - 40.4: porphyritic qtz monzonite; grey; with sharp contacts @ 30°.

41.2 - 41.5: " " " ; upper contact @ 20°; lower @ 60°.

41.7: 1 cm. qtz w. py. & cpy. @ 60°.

Project Consol Silver Ridge Location Reed Dog Property Hole No. 20 Page No. 4 of 8

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE: 98.3%

44.4 - 45.0: porphyritic qtz monzonite; upper contact @ 60°, lower contact @ 40°.
46.2: 5 mm. arsenopy w. qtz & cpy. @ 30°; 2 mm. arsenopy. w. qtz @ 40°.
46.4: 2 cm. qtz - calcite breccia w. py. @ 60°.
47.5: 3 mm. py, cpy & qtz @ 30°.
47.6: 3 mm. py. with qtz @ 60°
47.8: 5 mm. qtz with py., cpy. @ 60°, & with py. & arsenopy. @ 40°
48.6: 3-5 mm. qtz w. py., cpy., arsenopy. @ 30°.
49.1: 2 x 5 mm. qtz - calcite with py. & cpy. @ 40° & parallel to core
49.3 - 50.5: calcite - andesite breccia with py., cpy. & arsenopy.(-); upper contact @ 60°; lwr contact @ 20°.
49.9 - 54.9: lightly fractured @ 10°, 20°, 50° & 60°; Fe Ox alg fract. 53.6-54.3
54.2 - 54.3: Fe Ox clay gouge @ 40°.
50.6 - 50.9: 1 cm. calcite w. py. parallel to core.
51.1 - 51.3: calcite - andesite bx. w. py.
51.4: 3 mm. qtz w. py. & cpy. @ 30°.
51.8: 2 cm. calcite w. py. @ 50°.

51.8 - 116.7: <u>Dacite & Rhyodacite Tuff & Tuff-breccia</u>: gray, brown & tan; hard; numerous calcite & quartz seams; pyrite in seams & disseminations; some cpy. & arsenopy. in places; estimate 3% sulphides; spotty epidote alteration in dacite.

52.5: 5 mm. qtz. sm. with py. & cpy. @ 50°
52.7: 2 cm. calcite sm. with py. @ 60°.
53.1: 4 cm. calcite with py. @ 40°
53.4 - 53.7: 2 cm. calcite with py. @ 40°.
54.1 - 54.2: Calcite vein with py.(+) & arsenopyrite(-) @ 30°.

DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SECTION | ALTERATION | FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE: 98.3%

54.9 - 60.6: lightly fractured @ 30°, 50°, 60° & 70°
55.4: 5 mm. calcite with py. @ 60°.
56.1 - 56.2: 5 mm. qtz. with py. & arsenopy. @ 70°.
60.6 - 66.4: lightly fractured @ 30°, 50°, 60° & parallel to core.
62.1: 2 cm. calcite @ 50° with py.
63.2: 1 cm. qtz @ 70° with py.
63.7: 1 cm. qtz. w. py. & cpy. @ 50°
63.8 - 65.2: dacite - calcite breccia @ 30°; pyrite with little cpy.
66.4 - 72.0: lightly fractured @ 30°, 40°, 50° & 60°; Fe Ox (-) alg. fractures.
66.8: 1 cm. gouge @ 40°.
68.0: 1 cm. calcite with py. @ 50°.
68.1: 1 cm. calcite with py., cpy. & sphalerite @ 50°.
68.3: 1 cm. calcite with py., arsenopy. @ 30°.
68.4: 2 cm. calcite with py., cpy. & sphalerite @ 40°.
68.5: 1 cm. calcite @ 80°; py (-)
68.7: 5 mm. qtz w. py. & little arsenopy. @ 30°.
68.9: 5 mm. calcite w. py., little cpy. @ 30°.
69.5 - 70.0: py. with little cpy. in num. thin sms. @ 20° to core; est. 3-5% sulphides.
70.6 - 71.2: calcite stringers (wispy) parallel to core.
72.0 - 77.6: lightly fractured @ 30°, 50° & 60°.
76.5 - 76.8: tuff banding @ 40°.
72.3 - 73.1: siliceous rhyodacite @ 40° w. py, arsenopyr. & little sphal. & cpy. - mainly disseminated.
73.4 - 73.5: calcite - rhyodacite breccia with py. @ 40°.
73.6: 7 cm. calcite @ 40°.
73.8 - 74.0: siliceous rhyodac. tuff with disse...

Project Consol. Silver Ridge Location Red Dog Property Hole No. 20 Page No. 6 of 8

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE: 98.3%

77.6 - 82.9: lightly fractured @ 20°, 30°, 50°, 60° & 70°.
79.3: 1 cm. calcite @ 20° w. py(-); arsenopy(=)
79.7 - 81.4: silic. rhyodac. tuff with py(+); little fine arsenopy. & little cpy.
79.9: 2 cm. calcite w. py. @ 20°
82.9 - 88.1: core fairly broken @ 30°, 50°, 60°, 80° & parallel to core.
84.1 - 85.0: shearing parallel to core. & @ 20°.
83.0 - 83.8: siliceous; thin calcite stringers @ 20°; py(+) w. little cpy. & arsenopy.
84.2 - 84.8: rhyodacite - calcite breccia with py.
85 - 85.3: 1 cm. calcite with fluorite parallel to core.
85.3 - 88.1: brown rhyodacite with numerous thin calcite stringers @ 30°-40°; consid. dissem. py. and little cpy.; estimate 5% sulphides.
88.1 - 93.8: lightly fractured @ 30°, 50° & 60°.
88.1 - 92.9: rhyodacite breccia & tuff-breccia; brown & grey mottled; calcite stringers; pyrite as sms & disseminations.
89.0: 2 x 1cm veins calcite - rhyodacite breccia @ 70° with py, cpy(-).
90.8: 1 cm. calcite with py. @ 30°.
91.0: 1 cm. calcite - rhyodacite bx. with py(-) @ 20°.
91.5: 1 cm. calcite with py @ 10°.
92.9: 1cm. calcite with py. @ 50°.
93.8 - 98.7: moderately fractured @ 20°, 30°, 50°, 60° & 70°.
95 - 95.7: shearing @ 30°; talcose & chloritic.
96.5 - 97.5: shearing @ 40° " "
94.8 - 94.9: 1 cm. calcite sm. with py. parallel to core.
95.4 - 98.0: andesite & dacite; greenish black; epidote alt'n.; pyrite.
98: shearing alg. contact @ 30°; 1cm. chloritic gouge.
96.7: 1 cm calcite sm. w. py(-) @ 20°.
97.1: 1 cm. " " w. py @ 40°.

Project [illegible] Location [illegible] Hole No. [illegible] Page no. 7 of 8

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE: 98.3%

98.7-104.3: lightly fractured @ 30°, 40°, 50° & 70°.
99.3: 1 cm. calcite with py. @ 20°
100.6: 1 cm. calcite @ 50°
102.0: 2 cm. band calcite with py.(++) @ 10° to core.
102.4: 5 cm. band py.(+) with calcite @ 50°.
103.2-103.6: dacite porphyry; grey, mafic phenocrysts @ 60°.
104.3-106.3: heavily fractured @ 10°, 20°, 30°, 50° & 60°.
106.7: 5 mm. py. with epidote @ 30°.
107.3: 3 mm. py. @ 50°.
107.7: 3 cm. py. @ 50°.
107.8: 7 mm. py. @ 40°.
108.2: 7 mm. calcite with py. @ 30°.
108.8: 3 mm. py. @ 30°.
109.7-110.6: disseminated pyrite, pyrrhotite & little arsenopyrite.
109.5-115.5: lightly fractured @ 50°, 60° & 70°.
111.2: 4 cm. calcite - rhyodacite breccia @ 60°.
110.6-113.7: dissem. py. with little fine arsenopyrite.
114.1-115.5: dissem. py., pyrrhotite(+), & fine arsenopy. in rhyodacite tuff.
115.5-121.2: lightly fractured @ 30°, 40°, 50° & 60°.
115.5-116.1: rhyodacite tuff-bx. w. dissem. pyrrhotite(+), py. & minor arsenopy.

116.7-123.5: <u>Dacite tuff & tuff-breccia</u>; dark brown & green; chloritic
118.7: tuff-breccia.
116.7-121.2: dissem. pyrrh.(+), py & arsenopy.(-)
119.3: 5 mm. py. @ 50°
121.2-126.9: lightly fractured @ 10°, 30°, 40°, 50° & 60°.
123.3: 3 cm. calcite with py. & fine arsenopy.
123.5: 1cm. calcite with py. & arsenopy. @ 30°.

Project Consol. Silver Ridge Location Red Dog Property Hole No. 20 Page No. 8 of 8

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE: 98.3%

123.5 - 137.4: Rhyodacite Tuff & Tuff-breccia: grey to tan; hard; dissem. py, pyrrhotite & fine arsenopyrite.

126.9 - 132.2: moderately fractured @ 50°, 60° & 70°.

129.5: 2 cm. qtz. with fine arsenopy. @ 60°.

132.2 - 137.4: lightly fractured @ 10°, 30°, 50° & 60°.

133.2: 1 cm. calcite sms. with py.(-) @ 10° & 40°

135.0: 1 cm. calcite @ 30° & 3 cm. calcite - rhyodacite breccia.

135.9: 3 mm. arsenopy. sm. @ 30°

136.0: 3mm. qtz with arsenopy. @ 60°.

136.2: 3mm. arsenopy. & py. @ 50°

137.4 - 151.5: Dacite Tuff & Tuff-breccia: as 116.7 - 123.5 m.

137.4 - 142.9: lightly fractured @ 30°, 40°, 60° & 70°.

138.8: 5 mm. seam arsenopy. & qtz @ 50°.

142.0: 1.5 cm. qtz - calcite seam w. py(-) @ 30°.

137.6 - 139.3: fair arsenopy. as disseminations & narrow seams.

139.3 - 142.3: dissem. pyrrhotite(tr) & py.

143.4 - 143.8: chloritic & talcose shearing @ 70°.

142.9 - 148.3: light fracturing @ 30°, 40°, 50° & 60°.

144.6: 3 mm. sm. arsenopy. @ 70°.

144.9: 1 cm. calcite seam with py. @ 70°.

145.6: 1 cm. calcite @ 60°

146.8 - 147.2: calcite vein with py(+) & arsenopy.

148.0 - 148.1: calcite - rhyodacite breccia with py. @ 50°.

142.9 - 151.5: dissem. py. & pyrrhotite with little arsenopy. & also thin seams.

149.6: 1 cm. calcite @ 50°; 2 cm. calcite @ 70°.

151.5 - END OF HOLE

Project CONS SILVER RIDGE Location RED DOG Hole No. 20 Page No 1 of 4

Depth Interval From	Depth Interval To	CORE Sample No.	Metres Inches Rec.	% Rec.	ASSAY Hg				Au x A	Depth Interval From	Depth Interval To	SLUDGE Sample No.	Lbs. Rec.	% Rec.	ASSAY				
6.1	8.2	550	1.4	67															
8.2	10.0	1	1.6	88	.064				.1152										
10.0	12.0	2	2.05	102	.112				.2240										
12.0	14.0	3	2.12	106	.011				.0220										
14.0	15.5	4	1.6	103	.104				.1560										
15.5	17.0	5	1.51	101	.028				.0420										
17.0	19.0	6	1.96	98	.009				.0180										
19.0	21.0	7	1.94	97	.008				.0160										
21.0	23.0	8	2.0	100	.012				.0240										
23.0	25.0	9	2.0	100	.019				.0380	.039 / 18.9									
25.0	27.0	560	2.0	100	Tr				0										
27.0	29.0	1	2.0	100	.009				.0180										
29.0	31.0	2	2.0	100	.008				.0160										
31.0	33.0	3	1.94	97	.020				.0400										
33.0	35.0	4	1.82	91	.001		6.1-35.0		.7292	.027 / 28.9 m									
35.0	37.0	5	1.94	97	.006														
37.0	39.0	6	2.08	104	.005														
39.0	41.0	7	1.88	94	.016														
41.0	43.0	8	2.0	100	.018														
43.0	45.0	9	2.06	103	.005														
45.0	47.0	570	2.0	100	.012														
47.0	49.0	1	1.96	98	.011														
49.0	51.0	2	1.96	98	.015														

Project CONS SILVER LEDGE Location RED DOG Hole No. 20 Page No 2 of 4

CORE												SLUDGE								
Depth Interval		Sample No.	Metric Inches Rec.	% Rec.	ASSAY					Depth Interval		Sample No.	Lbs. Rec.	% Rec.	ASSAY					
From	To				Au					From	To									
53.6	54.9	574	1.1	85	.001															
54.9	57.0	"	2.1	100	TR															
57.0	59.0	6	2.0	100	TR															
59.0	61.0	7	1.91	98	TR															
61.0	63.0	8	1.94	97	.009															
63.0	65.0	9	2.0	100	TR															
65.0	67.0	580	1.98	99	TR															
67.0	69.0	1	1.96	98	.034															
69.0	71.0	2	1.94	97	TR															
71.0	73.0	3	1.96	98	.006															
73.0	75.0	4	2.0	100	TR															
75.0	77.0	5	2.0	100	TR															
77.0	79.0	6	1.98	99	TR															
79.0	81.0	7	1.94	97	TR															
81.0	83.0	8	1.86	93	TR															
83.0	85.0	9	1.7	85	TR															
85.0	87.0	590	1.88	94	TR															
87.0	89.0	1	1.91	98	TR															
89.0	91.0	2	2.0	100	TR															
91.0	93.0	3	2.0	100	.008															
93.0	95.0	4	2.07	104	.006															
95.0	97.0	5	2.04	102	.008															
97.0	99.0	6	1.87	94	.026															

101.0	103.0	548	1.98	99	.027
103.0	105.0	9	1.81	90	.007
105.0	107.0	600	1.53	76	TR
107.0	109.0	1	1.96	98	TR
109.0	111.0	2	2.0	100	TR
111.0	113.0	3	2.0	100	.010
113.0	115.0	4	2.0	100	.018
115.0	117.0	5	2.0	100	.010
117.0	119.0	6	2.0	100	.005
119.0	121.0	7	2.0	100	.008
121.0	123.0	8	2.0	100	.012
123.0	125.0	9	1.91	95	TR
125.0	127.0	610	1.89	95	.005
127.0	129.0	1	2.0	100	.005
129.0	131.0	2	2.1	105	.006
131.0	133.0	3	2.0	100	.005
133.0	135.0	4	2.0	100	TR
135.0	137.0	5	2.0	100	.012
137.0	139.0	6	2.0	100	.006
139.0	141.0	7	2.0	100	TR
141.0	143.0	8	1.96	98	TR
143.0	145.0	9	1.88	94	TR
145.0	146.8	620	1.78	99	.009
146.8	147.2	1	0.4	100	149

Project Cons SilverRidge Location Red Dog Hole No. 20 Page No 4 of 4

CORE										SLUDGE									
Depth Interval		Sample No.	~~Metres~~ Inches Rec.	% Rec.	ASSAY					Depth Interval		Sample No.	Lbs. Rec.	% Rec.	ASSAY				
From	To				Hg					From	To								
147.2	149.0	G22	1.8	100	Tr														
149.0	151.5	G23	2.5	100	.008														

Property: Cunsol. Silver Ridge Location: Red Dog Property Contractor: Lonnevan Canada Inc.

Hole No. 21 Page No. 1 of 6 Date Started August 31, 1980

Coordinates: 9734.8 N 98 29.6 E Date Finished Sept. 3, 1980

Collar elev. 1590 m Bearing East Ref. to Claim Corner

Inclination -60° Total Depth 203.3 metres. Logged by R. Hogarth & G. Neal

DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SECTION | ALTERATION | FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE: 98.6%

0 - 3.3 : Overburden

3.3 - 44.9: Quartz Monzonite : grey-green; porphyritic with well-formed plagioclase feldspar phenocrysts; brown biotite altn.

3.3 - 4.3 : well mineralized with cpy., arsenopy., py. & minor pyrrhotite.

10.1 - 10.4 : zone of carbonate stringers (15%) @ 50° - 70° with parallel stringers of py. & arsenopy.

20 - 20.1 : 1 cm. seam of arsenopy., py. & cpy.

25 - 44.9 : less biotite alteration; in places 2 - 3% pyrrhotite.

4.3 - 44.9 : varying amounts of arsenopy., cpy & py.; in general quite well mineralized.

44.9 - 48.8 : Dacite : med. green with brown biotite; minor stringers carbonate; disseminations & fine stringers of arsenopy, py, pyrrhotite & cpy.

48.8 - 53.5 : Quartz Monzonite : as above, with fine grained dissem. py, cpy & pyrrhotite; sharp contacts @ 30°; quartz - carbonate stringers cut though contact.

53.5 - 76.2 : Dacite : fine grained, brown to green; fine grained biotite alter'n.; numerous thin qtz - carbonate stringers; finely dissem. py. (7%), pyrrhotite & minor arsenopy. Arsenopy. decreases & pyrite increases with depth. Below 62 metres, very little sulphides.

76.2 - 90.9 : Rhyodacite : grey, siliceous with stringers of arsenopyrite in places from 76.2 - 84 m.

Project Consol. Silver Ridge Location Red Dug Property Hole No. 21 Page No. 2 of ____

DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SECTION | ALTERATION | FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE: 98.6%

84 - 90.9: siliceous with 1-2% pyrite & little cpy as disseminations; also little vy finely dissem. arsenopy.

90.9 - 117.9: Rhyodacite Tuff-breccia: greenish to brown varying with alteration; web-like qtz-carbonate (80%) stringers; minor arsenopyrite, pyrite, cpy. & pyrrhotite; qtz-carb. stringers cut through breccia clasts; siliceous & brittle.

95.8 - 96.1: Fault; gouge @ 20°.

98.4 - 98.8: " " @ 20° & 50°

95.8: breccia; carbonate clasts; in zones of finer breccia (1cm) matrix is qtz carbonate

96.9 - 97: sheared @ 50°

99.3: shearing @ 30°.

99.5: tuff-breccia banding @ 50°

97.6 - 97.7: visible gold in very fine grained qtz seam, 1 cm. wide @ 20° to core; little py. & arsenopy.

98.8 - 99.0: rhyodacite - carbonate breccia w. py. @ 20° to core.

95.2 - 100.2: mainly diss. py.; Estimate 3% sulphides.

102 - 102.2: shearing @ 10° to core.

100.2 - 105.4: includes narrow bands siliceous rhyodac. tuff; numerous calcite stringers 2mm - 2cm. wide @ 30° & parallel to core; estimate 3% sulphides mainly py. - dissem. & in seams

108.1 - 109.3: shearing @ 20°.

101.6: rhyodac. tuff-bx laced w. calcite sms. @ 30, 40° & parallel to core.

106.9 - 107.3: siliceous with fine arsenopy. & py(+)

107.5 - 108: tuff-bx banding @ 30°-40°.

105.4 - 110.4: Estimate 3% sulphides mainly py - disseminated & in seams.

114.4 - 114.6: sheared @ 20° & parallel to core.

111.7: tuff-breccia banding @ 20° - 30°.

112.3: " " " @ 30°

DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SECTION | ALTERATION | FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE: 98.6%

109.4 - 112.4: dacite breccia; brown & grey with banding @ 30°; py. as thin seams & disseminations.

112.4 - 113.2: rhyodac. tuff; grey & tan; dissem. py.

112.6: tuff banding @ 50°

113.2 - 115.4: rhyodac. tuff-bx; brown; dissem. py.

113: 5 cm. calcite vein @ 30°; py(-)

115.1: 5 mm. py, arsenopy. with qtz @ 70°

115.4 - 120.5: lightly fractured @ 20°, 30°, 50°, 60° & 70°.

115.4 - 117.9: rhyodac. tuff-bx; py.

117.9 - 122.7: Rhyodac. tuff: tan & grey; some tuff banding @ 40°; disseminated pyrite

117.9 - 118.1: rhyodac. tuff-calcite breccia w. py. @ 30°.

119.7 - 125.4: lightly fract. @ 20°, 30°, 50°, 60° & parallel to core

122.7 - 127.8: Dacite Tuff-breccia: brown; dissem. py.

122.2 color-banding @ 20°

122.9 - 123.2: " " @ 40°

124.7: " @ 30°

125.4 - 131.2: light fracturing @ 30°, 50° & 60°.

127.8 - 167.4: Rhyodacite tuff-breccia: grey, tan & green with color banding @ 30°; dissem. pyrite.

128.6 - 128.8: calcite veining @ 10° with 5 mm. cross-vein @ 60°

130.8 - 131.0: " " @ 30°

131.2 - 136.8: lightly fractured @ 20°, 30° & 50°; fine pyrite with some fine dissem arsenopy.

131.5: 2 cm. calcite @ 40°

131.8: 5 mm. calcite sm. w. py(+) @ 35°.

Project Consol. Silvermaque Location Red Dog Property Hole No. 21 Page No. 4 of 6

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE: 98.6 %

133.2 - 133.8: color banding @ 10°-20°.
134.2 - 134.6: " " @ 30°-40°.
134.1: 1cm calcite with py. @ 50°
134.4: 1 cm. calcite with py. @ 20°; few specks arsenopy.
135.6: tuff banding @ 45°.
135.8-135.9: calcite vein @ 35° with py. & a little arsenopy.
135.9-136.7: consid. fine py; little arsenopy.
136.8 - 142.5: light fracturing @ 30°, 50° & 60°; finely dissem. py. & arsenopy.
137.4: 3 mm. seam. calcite with py. & arsenopy.
138.2: 20 cm. calcite with py.; little arsenopy. @ 60°.
139.5-139.8: calcite - rhyodac. bx @ 30° with pyrite rimming altered rhyodacite clasts
140.5 - 141.3: " " " @ 30° w. pyrite rimming alt. rhyodac. clasts
142.5 - 148.3: light fracturing @ 40°, 50° & 70°; estimate 3% sulphides as fine pyrite dissem. throughout.
143.9 - 144.7: rhyodacite tuff; veined by calcite @ 20° & 30° (5mm - 1cm) - almost rhyodac. - calcite bx.
145.7 - 145.9: calcite vein with rhyodacite breccia @ 20°
146.1 - 148.9: rhyolite tuff; grey, hard, siliceous; upper contact @ 50°; lwr @ 40° (not sharp)
149.1 - 149.6: tuff banding @ 20°.
151 - 151.2: tuff - bx. banding @ 20°
151.5 - 153.6: tuff banding @ 25°.
148.3 - 154.2: light fracturing @ 30°, 50°, 60° & 70°
151.2 - 151.4: calcite vein with py., arsenopy. in fine grained bands parallel to contacts @ 60°
153.5: 4 cm. calcite @ 40° with py. & little arsenopy. & sphalerite.
148.3 - 150.6: dissem. py. with sparse arsenopy.
150.6 - 153.5: dissem. py. & pyrrhotite with little arsenopy.
153.5 - 154.2: " " & fine arsenopy.

DRILLING INTERVAL | % CORE RECOVERED | CORE SIZE | SECTION | ALTERATION | FRACTURING | MINERAL | GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE: 98.6%

154.2 - 157.0: lightly fractured @ 20°, 50° & 70°; rhyodac. tuff-bx with dissem. pyrite & pyrrhotite; few specks arsenopy.

157 - 159.5: strongly fractured @ 20°, 30° & 40°.

157.4: 2 cm. sandy gouge @ 20°.

157.8 - 158.5: shearing with chloritic gouge @ 10°, 30° & 50°.

159.2 - 158.7: rhyodacite - calcite bx @ 50° with py(-)

159.1 - 159.5: rhyodacite tuff with calcite sms. @ 30°-40°; py. ± fine arsenopy.

159.5 - 164.9: moderate fracturing @ 30° & 70°; FeOx alg 30° fractures; disseminated pyrite; estimate 3% sulphides.

162.2 - 162.8: light shearing @ 30°; talcose.

162.8 - 163: calcite - rhyodacite breccia with py(-) @ 20°.

165.4 - 167.4: faulting @ 20°; strongly sheared & leached rhyodacite - breccia; gougy & talcose; dissem. py.

167.4 - 175.1: Rhyodacite tuff; lightly fractured @ 40°, 50° & 60°; dissem. pyrite

168.1: 2cm. calcite w. py. @ 40°

168.9: 2cm. calcite w. py(-) @ 70°; 2cm. calcite-breccia w. py(-) @ 40°.

174.3 - 174.8: fault @ 40°; sheared rhyodac. breccia; chloritic & talcose; also fault breccia.

170.4: 1 cm. calcite @ 50° with pyrite(-)

170.6: 2 cm. calcite with py(-) @ 60°.

172.2: 1 cm. talcose gouge @ 50°.

172.2 - 172.8: 1 cm. py(+) & calcite parallel to core.

175.1 - 187.0: Dacite tuff and breccia: brown, grey & green; fairly hard; gradational with rhyodacite unit above (mainly color differentiation)

175.1 - 175.7: dissem. pyrrhotite.

175.7 - 181: moderately fractured @ 30°, 50° & 60°; dissem. & patchy pyrrh. w. little pyrite; estimate 4% sulphides.

Project Consol. Silver Ridge Location Red Dog Property Hole No. 21 Page No. 6 of 9

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE: 98.6%

177.0: sheared & chloritic @ 30°.

178.1 - 178.2: " " @ 30°

180.3 - 180.5: " " @ 30° & 50°

187 - 197.2: Rhyodacite tuff & tuff-breccia: grey; fairly well mineralized with py & pyrrhotite; pyrrhotite both dissem. & in seams @ 30°.

187.4: 10 cm. of py. veins @ 60°.

187 - 191.6: moderately fractured @ 10°, 30°, 50° & 60°; fair pyrrhotite with little cpy.; estimate 4% sulphides

191.4: 6 cm. calcite vein with pyrrhotite(+) and little cpy. @ 60°.

191.7 - 193.1: dacite breccia: mottled; grey, brown & green; disseminated pyrrhotite, pyrite(-); few 1 cm. calcite sms @ 40°.

191.6 - 197.2: lightly fractured @ 30°, 40°, 50° & 60°

197.2 - 203.3: Dacite breccia: green & brown; dissem. pyrrh. in patches & blubs; estimate 4% sulphides; thin opalescent quartz stringers @ 50°; contacts @ 40°.

197.2 - 202.9: lightly fractured @ 30° & 70°

200.7: 2cm. calcite sm. @ 60° w. py(-)

201.1 - 203.3: brown & green mottled dacite breccia; pyrrhote(+) & pyrite; estimate > 5% sulphides; upper contact @ 70°.

203.3: END OF HOLE

Project CONS SILVER RIDGE Location RED DOG Hole No. 21 Page No 1 of 6

Depth Interval From	Depth Interval To	CORE Sample No.	Metres ~~Inches~~ Rec.	% Rec.	ASSAY Au				Depth Interval From	Depth Interval To	SLUDGE Sample No.	Lbs. Rec.	% Rec.	ASSAY				
3.3	4.3	626	0.99	99	.009													
4.3	7.0	7	2.66	99	.011													
6.0	7.5	8	1.48	99	.005													
7.5	9.0	9	1.48	99	.012													
9.0	10.5	630	1.48	99	.014													
10.5	12.0	1	1.48	99	.041													
12.0	13.5	2	1.48	99	.028													
13.5	15.0	3	1.48	99	.013													
15.0	16.5	4	1.48	99	.047													
16.5	18.0	5	1.48	99	.020													
18.0	19.5	6	1.48	99	.037													
19.5	21.0	7	1.48	99	.044													
21.0	22.5	8	1.48	99	.014													
22.5	24.0	9	1.48	99	.028													
24.0	25.5	640	1.48	99	.008													
25.5	27.0	1	1.48	99	.015													
27.0	28.5	2	1.48	99	.068													
28.5	30.0	3	1.48	99	.008													
30.0	31.5	4	1.48	99	.023													
31.5	33.0	5	1.48	99	.031													
33.0	34.5	6	1.48	99	.028													
34.5	36.0	7	1.48	99	.038													
36.0	37.5	8	1.48	99	.019													

Project Cons Silver Ridge Location Red Dog Hole No. 21 Page No 2 of 6

Depth Interval From	Depth Interval To	CORE Sample No.	Metres Inches Rec.	% Rec.	ASSAY Au	Depth Interval From	Depth Interval To	SLUDGE Sample No.	Lbs. Rec.	% Rec.	ASSAY
39.0	40.5	650	1.48	99	.048						
40.5	42.0	1	1.48	99	.052						
42.0	43.5	2	1.48	99	.202						
43.5	44.9	3	1.38	99	.020						
44.9	46.5	4	1.58	99	.011						
46.5	48.8	5	1.28	99	.031						
48.8	50.0	6	1.18	99	.024						
50.0	51.5	7	1.48	99	.009						
51.5	53.5	8	1.97	99	.027						
53.5	55.0	9	1.48	99	.009						
55.0	56.5	660	1.48	99	.011						
56.5	58.0	1	1.48	99	.052						
58.0	59.5	2	1.48	99	TR						
59.5	61.0	3	1.48	99	.008						
61.0	62.5	4	1.48	99	.005						
62.5	64.0	5	1.48	99	TR						
64.0	65.5	6	1.48	99	.001						
65.5	67.0	7	1.48	99	.010						
67.0	68.5	8	1.48	99	.005						
68.5	70.0	9	1.48	99	.019						
70.0	71.5	670	1.48	99	TR						
71.5	73.0	1	1.48	99	.007						
73.0	74.5	2	1.48	99	TR						

Project Cons Silver Ridge Location R&D Dog Hole No. 21 Page No 3 of 6

CORE											SLUDGE								
Depth Interval		Sample No.	Inches Rec.	% Rec.	ASSAY					Depth Interval		Sample No.	Lbs. Rec.	% Rec.	ASSAY				
From	To				Au					From	To								
76.2	77.5	674	1.28	99	TR														
77.5	79.0	675	1.48	99	.001-														
79.0	80.5	6	1.48	99	TR														
80.5	82.0	7	1.48	99	TR														
82.0	83.5	8	1.48	99	TR														
85.5	85.0	9	1.48	99	TR														
85.0	86.5	680	1.48	99	TR														
86.5	88.0	1	1.48	99	TR														
88.0	89.5	2	1.48	99	TR														
89.5	90.9	3	1.38	99	.012														
90.9	92.5	4	1.58	99	TR														
92.5	94.0	5	1.48	99	TR														
94.0	95.5	6	1.48	99	TR														
95.5	97.5	7	2.04	102	.010														
97.5	98.0	8	1.59	106	1582														
98.0	99.5	9	1.46	97	.022														
99.5	101.0	690	1.41	94	.001-														
101.0	102.5	1	1.44	96	.024														
102.5	104.0	2	1.46	97	Tr														
104.0	105.5	3	1.43	95	TR														
105.5	107.0	4	1.41	94	.022														
107.0	108.5	5	1.45	97	.008														
108.5	110.0	6	1.5	100	.005														

Project Cons Silver Ridge Location Red Dog Hole No. 21 Page No 4 of 12

Depth Interval From	Depth Interval To	CORE Sample No.	Metres Inches Rec.	% Rec.	ASSAY Au					Depth Interval From	Depth Interval To	SLUDGE Sample No.	Lbs. Rec.	% Rec.	ASSAY				
111.5	113.0	698	1.42	95	.025														
113.0	114.5	9	1.4	93	.010														
114.5	116.0	700	1.41	98	.008														
116.0	117.5	624	1.5	100	.006														
117.5	119.0	625	1.36	91	.008														
119.0	120.5	701	1.24	83	Tr														
120.5	122.0	2	1.25	82	TR														
122.0	123.5	3	1.5	100	Tr														
123.5	125.0	4	1.47	98	Tr														
125.0	126.5	5	1.46	97	Tr														
126.5	128.0	6	1.48	99	Tr														
128.0	129.5	7	1.5	100	.019														
129.5	131.0	8	1.5	100	Tr														
131.0	132.5	9	1.5	100	.007														
132.5	134.0	710	1.5	100	Tr														
134.0	135.5	1	1.5	100	.006														
135.5	137.0	2	1.5	100	Tr														
137.0	138.5	3	1.5	100	.010														
138.5	140.0	4	1.48	99	.005														
140.0	141.5	5	1.46	97	Tr														
141.5	143.0	6	1.48	99	.006														
143.0	144.5	7	1.42	95	Tr														
144.5	146.0	8	1.38	92	.005														
146.0	147.5	719	1.5	100	Tr														

Project CONC SILVER RIDGE Location RED DOG Hole No. 21 Page No 5 of 6

Depth Interval From	Depth Interval To	CORE Sample No.	Metres Inches Rec.	% Rec.	ASSAY Hg					Depth Interval From	Depth Interval To	SLUDGE Sample No.	Lbs. Rec.	% Rec.	ASSAY				
147.5	149.0	720	1.48	99	Tr														
149.0	151.0	1	1.94	97	.021														
151.0	151.5	2	1.48	99	.024														
151.5	153.0	3	1.5	100	Tr														
153.0	154.5	4	1.5	100	.012														
154.5	156.0	5	1.65	110	.006														
156.0	157.5	6	1.65	110	Tr														
157.5	159.0	7	1.5	100	Tr														
159.0	160.5	8	1.49	99	Tr														
160.5	162.0	9	1.5	100	.005														
162.0	163.5	730	1.5	100	.025														
163.5	165.0	1	1.5	100	Tr														
165.0	166.5	2	1.5	100	Tr														
166.5	167.5	3	1.46	97	Tr														
167.5	169.0	4	1.46	97	Tr														
169.0	170.5	5	1.5	100	Tr														
170.5	172.0	6	1.55	103	Tr														
172.0	173.5	7	1.55	103	Tr														
173.5	175.0	8	1.55	103	Tr														
175.0	176.5	9	1.55	103	Tr														
176.5	178.0	740	1.55	103	Tr														
178.0	179.5	1	1.51	101	.008														
179.5	181.0	2	1.46	97	Tr														

Project Conc Silver Lode Location Leo Dog Hole No. 21 Page No 6 of 6

Depth Interval From	Depth Interval To	CORE Sample No.	Metres Inches Rec.	% Rec.	ASSAY Au					Depth Interval From	Depth Interval To	SLUDGE Sample No.	Lbs. Rec.	% Rec.	ASSAY				
182.5	184.0	744	1.41	94	.052														
184.0	186.3	5	2.27	99	TR														
186.3	188.0	6	1.75	103	TR														
188.0	189.5	7	1.45	97	.001														
189.5	191.0	8	1.46	97	TR														
191.0	192.5	9	1.5	100	.001														
192.5	194.0	750	1.5	100	.007														
194.0	195.5	939	1.5	100	.007														
195.5	197.0	940	1.5	100	.01														
197.0	198.5	1	1.5	100	.019														
198.5	200	2	1.5	100	.005														
200	201.5	3	1.34	90	.007														
201.5	203.3	944	1.57	87	.009														

Core Summary Hole Notes ... Location ... Contractor ...

Hole No. DDH-22 Page No. 1 of 7 Date Started SEPT 3/80

Coordinates: 9984 N 9957 E Date Finished SEPT 6/80

Collar elev. 1475 m Bearing N65°E Ref. to Claim Corner

Inclination -55° Total Depth 145.0 METRES Logged by R. Hogarth

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE: 90.4%

0.0-9.1 Overburden.

9.1-25.1 Siliceous Rhyodacite Breccia

Medium green to pinky brown in colour. The breccia pieces have a porphyritic texture. FeS_2 filling along fracture surfaces. Fine web-like Qtz-Carb stringers that cut through the breccia pieces.

9.1-11.5 Medium green with 1.4 cm breccia pieces 2% FeS_2

11.5 on Pink brown with the breccia pieces to 10 cm

15.5 Minor Pyrrhotite

18.0 Minor diss dark crystals (Hornblende, Chlorite??)

20.0 Core matrix changes to a light grey-green.

21.4 7 cm brecciated carbonate stringer. Minor FeS_2 mineralization Core is very broken from here.

25.0 10 cm Calcite breccia with contact at 70° to A of C.

Project Cons Silver Ridge Location Red Dog Hole No. 22 Page No. 2 of 7

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

25.1-41.3 Dacite

Light grey-green with minor Q-C stringers, minor diss FeS_2 + minor diss Chlorite crystals

37.0-37.5 Slight alignment of Feldspar crystals at 65° to A.C.

40.5 Dacite is very siliceous. Contains diss FeS_2 and a 5mm stringer containing FeS_2 ZnS at 40.65

41.3-43.3 Vein zone.

Rhyodacite, very siliceous. Sharp contact at 45° to A.C. There is disseminated FeS_2, ZnS, FeAsS mineralization throughout (5% combined). Contact at 55° to A.C. Good looking mineralization

43.3-56.0 Rhyodacite Tuff Breccia:

Siliceous light brown green. Sub-rounded 1-4 mm breccia pieces, some altered by Chlorite. Tuff banding causes colour changes in the matrix. Minor stringers of FeS_2.

50.6-51.0 5cm band 75% to A.C. of Qtz-Carb. Contains 3% FeS_2

Project Cons Silver Ridge Location Red Dog Hole No. 22 Page No. 3 of 7

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

54.0 Tuff banding is quite distinct at 75° to ABC.

56.0 3cm Qtz-Carb stringer with 5% FeS2 at bedding contact 80° to ABC.

56.0-59.5 Dacite.

Medium grey-green 1% diss FeS2. Dens dark (Hornblende Chlorite) crystals. May still be a part of the Tuff bands as it gets quite siliceous near the end.

59.5-74.2 Rhyodacite Tuff Breccia

Distinct banding at 45-60° to ABC. Altered 1-10mm breccia pieces. Minor web-like Qtz-Carb (Ser) stringers & minor diss FeS2

59.5-60.0 10-12% Qtz-Carb (80% Qz) stringers 5-8cm in thickness at 60° to ABC.

63.2 Minor diss light brown Feldspar crystals, well formed.

64.0 There are larger foreign fragments wide spread through the tuff beds.

Project Cons Silver Ridge Location Red Dog Hole No. 22 Page No. 4 of 7

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

74.2-74.7 Rhyodacite Tuff Breccia

Same as above but with a 3cm Qtz-Carb stringer mineralized with FeAsS, ZnS, FeS2, and minor ZnS diss in Qtz-Carb stringers

74.7-75.2 Vein Zone.

Rhyodacite with Qtz-Carb stringers (15%) and stringers of ZnS, FeS2, FeAsS. Strong vein

75.2-81.2 Rhyodacite Tuff Breccia.

Light brown-green siliceous with distinct breccia fragments. Same as above vein. Minor web-like Qtz-Carb stringers

81.2-81.6 Vein Zone.

Brecciated with tuff breccia matrix 75% and stringers of Qtz-Carb 5%, and stringers of FeAsS, ZnS, FeS2 20% combined. Sharp contact at 60° to ARC. Good looking vein

Project Cons Silver Ridge Location Red Dog. Hole No. 22 Page No. 5 of 7

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

81.6-90.5 Dacite Tuff Breccia

Medium green chloritic. well formed breccia with Minor Q-C. stringers & minor diss FeS2

90.5 7cm Q-C veinlet with 30% FeS2. Contact at 50° to A§C.

90.5 -99.5 Rhyodacite Tuff Breccia.

Core is light green and a little more siliceous. There is fine diss FeS2 throughout (1%) Minor Qtz-Carb banding at 20° to A§C. In places there are diss light-brown Feldspar crystals.

99.5-99.95 Vein Zone.

Brecciated Q.tz.-Carb (60%) with Rhyodacite (30%) and FeAsS FeS2 & Pyrrhotite (10% combined) mineralization. Sharp contact at 30° to A§C. and gougey contact at 45° to A§C. Overall mineralization is quite weak.

Project Cons Silver Ridge Location Red Dog Hole No. 22 Page No. 6 of 7

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

99.95 - 102.1 Rhyodacite Tuff Breccia

Light grey-brown green. Minor Qtz-Carb stringers, and minor diss FeS_2

102.1 - 102.7 Rhyodacite Tuff Breccia

with ZnS FeS_2 FeAsS (?) mineralized Qtz-Carb stringers Also contains minor diss Pyrrhotite

102.7 - 103.0 Vein Zone.

Weak vein. Brecciated Rhyodacite Tuff (80%) and Q-C (20%) with minor ZnS FeS_2 and Pyrrhotite mineralization

103.0 - 130.3 Rhyodacite Tuff Breccia

Light green siliceous containing 1% diss FeS_2 and minor diss Pyrrhotite. Tuff banding at 50° to A & C.

109.2 - 109.8 Very distinct band, almost looks like intrusive or very porphyritic

115.5 10cm Calcite breccia with Rhyodacite (brown) breccia pieces. Minor FeS_2 Pyrrhotite mineralization

Project Cons Silver Ridge Location Red Dog Hole No. 22 Page No. 7 of 7

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

118.0 Matrix changes to a light brown

128.6 2 cm d-c stringer containing FeS_2 ZnS Fe As S mineralization

128.6-130.3 Minor diss light brown phenocrysts of feldspar.

130.3-130.5 Vein Zone.

Brecciated Qtz-carb, contact at 35° to ASA C. Contains 7% combined FeAsS FeS_2 ZnS mineralization

130.5-137.5 Rhyodacite Tuff Breccia

Light green-brown. Minor diss hornblende crystals Minor fine diss FeS_2. Banding at 45° to ASA C.

137.5 EOH

Project Coeur Silver Ridge Location Fan Dog Hole No. 22 Page No 1 of 4

CORE											SLUDGE								
Depth Interval		Sample No.	Inches Rec.	% Rec.	ASSAY					Depth Interval		Sample No.	Lbs. Rec.	% Rec.	ASSAY				
From	To				Au					From	To								
91	110	751	1.0	53	Tr														
110	12.5	2	1.3	87	Tr														
12.5	14.0	3	1.2	80	Tr														
14.0	15.5	4	1.5	100	Tr														
15.5	17.0	5	1.5	100	Tr														
17.0	18.5	6	1.5	100	Tr														
18.5	20.0	7	1.5	100	Tr														
20.0	21.5	8	1.5	100	Tr														
21.5	23.0	9	1.3	87	Tr														
23.0	25.1	760	1.90	90	Tr														
25.1	27.0	1	1.90	100	Tr														
27.0	28.5	2	1.50	100	Tr														
28.5	30.0	3	1.40	93	Tr														
30.0	31.5	4	1.41	94	TR														
31.5	33.0	5	1.46	96	.005														
33.0	34.5	6	1.50	100	.006														
34.5	36.0	7	1.44	96	TR														
36.0	37.5	8	1.5	100	TR														
37.5	39.0	9	1.5	100	TR														
39.0	40.5	770	1.5	100	.008														
40.5	41.3	1	.8	100	TR														
41.3	43.3	2	2.0	100	.144														
43.3	45.0	3	1.7	100	.006														
45.0	46.5	774	1.5	100	.005														

Project CANS SILVER RIDGE Location RED DOG Hole No. ZZ Page No 2 of 4

Depth Interval From	Depth Interval To	CORE Sample No.	Inches Rec.	% Rec.	ASSAY Au					Depth Interval From	Depth Interval To	SLUDGE Sample No.	Lbs. Rec.	% Rec.	ASSAY				
46.5	48.0	775	1.5	100	TR														
48.0	49.5	6	1.5	100	TR														
49.5	51.0	7	1.5	100	.005														
51.0	52.5	8	1.5	100	.008														
52.5	54.0	9	1.5	100	TR														
54.0	56.0	780	2.0	100	TR														
56.0	57.5	1	1.5	100	.009														
57.5	59.5	2	2.0	100	TR														
59.5	61.0	3	1.5	100	TR														
61.0	62.5	4	1.5	100	TR														
62.5	64.0	5	1.5	100	TR														
64.0	65.5	6	1.5	100	.006														
65.5	67.0	7			TR														
67.0	68.5	8			TR														
68.5	70.0	9			TR														
70.0	71.5	790			TR														
71.5	73.0	1			TR														
73.0	74.2	2			.026														
74.2	74.7	3																	
74.7	75.2	4			TR														
75.2	77.0	5			TR														
77.0	78.5	6			TR														
78.5	80.0	7			.010														

Project _____ Location _____ Hole No. 22 Page No 3 of 4

Depth Interval From	Depth Interval To	CORE Sample No.	Inches Rec.	% Rec.	ASSAY Au					Depth Interval From	Depth Interval To	SLUDGE Sample No.	Lbs. Rec.	% Rec.	ASSAY				
81.2	81.6	799			.028														
81.6	83.0	800			Tr														
83.0	84.5	1			Tr														
84.5	86.0	2			Tr														
86.0	87.5	3			Tr														
87.5	89.0	4			Tr														
89.0	90.5	5			Tr														
90.5	92.0	6			Tr														
92.0	93.5	7			Tr														
93.5	95.0	8			Tr														
95.0	96.5	9			Tr														
96.5	98.0	810			Tr														
98.0	99.5	11			Tr														
99.5	99.95	12			.006														
99.95	102.1	13			Tr														
102.1	102.7	14			Tr														
102.7	103.0	15			.065														
103.0	104.5	16			Tr														
104.5	106.0	17			Tr														
106.0	107.5	18			Tr														
107.5	109.0	19			Tr														
109.0	110.5	820			Tr														
110.5	112.0	21			.005														

Project _____ Location _____ Hole No. ____ Page no 4 of 4

Depth Interval		CORE									Depth Interval		SLUDGE								
					ASSAY											ASSAY					
From	To	Sample No.	Inches Rec.	% Rec.	Au						From	To	Sample No.	Lbs. Rec.	% Rec.						
113.5	115.0	823			Tr																
115.0	116.5	24	1.5	100	Tr																
116.5	118.0	825	1.5	100	Tr																
118.0	119.5	851	1.5	100	Tr																
119.5	121.0	2	1.5	100	Tr																
121.0	122.5	3	1.5	100	Tr																
122.5	124.0	4	1.5	100	Tr																
124.0	125.5	5	1.5	100	Tr																
125.5	127.0	6	1.5	100	Tr																
127.0	128.5	7	1.5	100	.006																
128.5	130.3	8	1.8	100	.007																
130.3	130.5	9	.2	100	.009																
130.5	132.0	860	1.5	100	Tr																
132.0	133.5	1	1.5	100	Tr																
133.5	135.0	2	1.5	100	Tr																
135.0	136.5	3	1.5	100	Tr																
136.5	137.5	864	1.0	100	Tr																

Project [illegible] Location [illegible] Contractor [illegible]

Hole No. DDH-23 Page No. 1 of 9

Coordinates: 9631 N 9765 E

Collar elev. 1645 Bearing 245°

Inclination -55° Total Depth 1158

Date Started SEPT 8/80

Date Finished SEPT 16/80

Ref. to Claim Corner

Logged by K. Hogarth

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE: 84.5%

0.0-7.0 Overburden.

7.0-20.0 Andesite

Dark green almost black with 5% randomly oriented Q-C stringers and 2-3% diss FeS_2. Fine grained.

12.1- Majority of Q-C stringers have a pattern which cut core axis at 30°, 50° & 70°

13.7- FeS_2 becomes more finely diss throughout core. There is also finely diss biotite

15.5-15.7 Brecciated Q-C stringer, sharp contact at 20° to A of C. 3% diss FeS_2 possible minor FeAsS.

17.5-17.8 Rhyodacite Tuff Breccia Contact 80° to A of C. Fine diss FeS_2 (3%) and possible FeAsS.

19.0-19.2 Rhyodacite Tuff Breccia. Contacts at 60 and 45° to A of C. fine diss FeS_2 (3%) Possible FeAsS, siliceous.

Project CSM Location Red Dog Hole No. 23 Page No. 2 of 9

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

20.0-22.0 Rhyodacite Tuff Breccia

Siliceous light grey. Gougey fault contact at 40° to AJC. Bedding contacts at 45° to AJC. 3% fine diss FeS_2.

21.8 2cm Q-C stringer at 20° to AJC containing FeS_2 + FeAsS Appears to be very fine FeAsS in the surrounding matrix

22.0-23.5 Andesite Breccia

98% Andesite (black) with Rhyodacite Tuff breccia pieces Thus cut by thin Q-C stringers at 60-90° to AJC.

23.5-24.1 Rhyodacite Tuff Breccia

Contact at 60° to AJC. Light grey siliceous. Fine diss FeS_2 (3%) and possible minor fine diss FeAsS.

24.1-30.3 Andesite Breccia

Dark-green black matrix 90% with breccia pieces up to 30cm of Rhyodacite Tuff breccia. Cut by Q-C stringers at angles 45, 55 & 70° to AJC.

Project CSM Location Red Dog Hole No. 23 Page No. 3 of 9

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

30.3-35.0 Quartz Monzonite

10 cm brecciated contact at approx 60° to A & C. Intrusive is pink-green with 10% diss Biotite. There is 2-3% fine diss FeS2 mineralization

35.0-49.4 Interbedded Dacite & Rhyodacite Tuff Breccia

35.0-35.6 Dacite dark green, slight brecciation & Rhyodacite Tuff fragments 5% diss A-C stringers 3% fine diss FeS2

35.6-35.9 Rhyodacite Breccia. First 5 cm show parallel banding at 60° to A & C. FeS2 min does not cut through bands. Breccia is a light grey-green with 5% diss FeS2 2 cm A-C stringer along further contact, stringers cut core at 45°-60°

35.9-37.1 Dacite Breccia 95% matrix 5% fragments. A-C stringers (5%) 60° to A & C. 8% diss FeS2

37.1-38.6 Rhyodacite Tuff Breccia. Sharp contact at 45° to A & C. Light green-brown. 3% diss FeS2

38.0 38.4 Fault gone gauge 60° to A & C.

Project CSM Location Red Dog Hole No. 23 Page No. 4 of 9

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

38.6-42.7 Dacite Breccia dark green with 3% diss Fe Sx. Minor A-C stringers at 50-70°
40.6-40.8 Fault zone

42.7-44.0 Rhyodacite Tuff Breccia. Light green-brown siliceous. Contact at 60° to ASC. Randomly oriented fine A-C stringers cut through breccia.

44.0-45.4 Dacite Tuff Breccia Contact at 70° with 3cm of alternating Dacite. A-C banding. 3% diss Fe Sx

45.4-49.4 Rhyodacite Tuff Breccia. Contact at 70° to ASC.

45.6-48.0 Fault zone - very broken.

49.4-50.8 Vein Zone gauge, brecciated A-C (50%). Hole lost in vein very little recovery (25%) There is is 4% diss Fe Sx Minor Pyrrhotite & FeAsS.

50.8-54.2 Fault Zone. 90% gauge with 3-5cm fragments of siliceous Rhyodacite & vein material.

53.5-53.8 Light grey-green siliceous Rhyodacite with fine diss FeSx

Project CSM Location Red Dog Hole No. 23 Page No. 5 of 9

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

54.2-55.2 Vein Zone. Very siliceous brecciated Q-C. with 5% disc FeS_2 and minor Pyrrhotite, $FeAsS$, and ZnS Noticable V.G. Contact at 50° to A/C. Both contacts gauge.

55.2-56.0 Dacite Brecciated dark green Contains brecciated pieces of Q-C.

56.0-56.3 Quartz Monzonite Fault zone 50% gauge 50% brecciated Q M. Minor FeS_2 mineralization. Pink-green in colour. Both contacts faulted.

56.3-60.3 Rhyodacite-Dacite Tuff/Breccia. Light grey-green to dark green Bedding @ 65° to A/C contains 10% randomly oriented Qtz-Carb stringers & 3% disc FeS_2. There is minor fine disc $FeAsS$.

59.7 Fault gauge.

60.3-61.5 Fault Zone: Gauge and fragments of Dacite

Project CSM Location Red Dog Hole No. 23 Page No. 6 of 9

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

61.5-64.3 Dacite Dark green with minor Q-C stringers 3-4% diss. FeS2. Minor diss Epidote. Fine grained
62.0-63.0 Fault zone - gauge
63.3-63.5 " " "
64.1-64.3 " " "

64.3-65.0 Quartz Monzonite. Pink-green, contact at 20° to ASC. 2% diss FeS2, minor diss Cu FeS2. Contact 90°

65.0-65.3 Rhyodacite Tuff Breccia Light brown-green siliceous fine grained with 5% diss FeS2 and minor Cu FeS2

65.3-65.8 Quartz Monzonite Pink green contact at 70° to NSC. Contacts at 70° & 45° to ASC. Contains 1-2% diss FeS2 and minor Cu FeS2
65.4-65.7 Fault zone.

65.8-67.4 Dacite Dark green fine grained, cut by randomly oriented Q-C stringers Fine diss FeS2 (2%) and Cu FeS2 (0.2%)

67.4-67.8 Quartz Monzonite. Contact 10° to ASC. Pink-green colour. Contains 2% diss FeS2 and minor Cu FeS2 7% diss Biotite

67.8-68.2 Dacite Dark green fine grained. Randomly oriented Q-C stringers 2% diss FeS2 minor Cu FeS2

Project CSM Location Red Dog Hole No. 23 Page No. 7 of 9

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

68.2-71.7 Quartz Monzonite. Contact 90° to A/C. Pink-green colour 1% disseminated Biotite Core is very close to Qtz-Mon-Dacite contact and steps back and forth. Contains 2% disseminated FeS_2 and minor $CuFeS_2$

68.9-69.3 Dacite Dark green fine grained 2% FeS_2 & minor $CuFeS_2$

69.3-69.7 Dacite 60% Qtz Mon. 40% parallel to core

69.7 Quartz Monzonite

71.2-71.6 Fault zone.

71.7-72.9 Dacite - Dark green, brecciated 20% with 10-15 cm fragments of Rhyodacite - Randomly oriented Q-C stringers cut through the breccia. 1% disseminated FeS_2

72.9-74.7 Rhyodacite - Light grey siliceous with 20% Quartz & Pink Calcite 2% disseminated FeS_2. There is minor brecciation

74.0-74.7 Fault zone gauge 20%

74.7-100.4 Dacite Breccia Fine grained, dark green matrix (60%) and light brown breccia pieces. 1-2% fine disseminated FeS_2 5% randomly oriented Q-C stringers. Minor disseminated Epidote.

Project CSM Location Red Dog Hole No. 23 Page No. 8 of 9

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

76.0 Minor Cu FeS$_2$
76.1-77.0 Fault zone - gauge
77.4-78.0 " " "
81.0- Increase in fine diss FeS$_2$ & C stringers at 30, 60 & 90° Core is getting siliceous.
82.8-83.8 Fault zone gauge Core is quite leached up to 84.3
84.3 Core is finely brecciated 5% FeS$_2$ and C stringers cut through fragments Dark green fine grained.
86.0-86.4 Fault zone Core is very broken. Dacite fragments
86.4-89.7 Dacite leached to a light grey between the two faults
89.7-90.5 Fault - gauge, Dacite fragments. Contact 35° to A & C.
90.5-91.2 Dacite - dark green brecciated fine grained.
91.2-93.3 Fault zone - gauge Dacite fragments
93.3-96.3 Dacite Breccia with C. stringers predominately at 45° to A & C. 4% diss FeS$_2$
96.3-96.6 Fault Zone
96.6-97.6 Dacite
97.6-98.0 Fault zone
98.0-99.1 Dacite
99.1-99.3 Fault zone
99.3-99.5 Dacite
99.5-100.4 Fault zone.

Project CSM Location RedDog Hole No. 23 Page No. 9 of 9

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

100.4 - 101.1 Vein Zone. Faulted gauge (50%) Contact 55° to A.of C. 50% brecciated Quartz - pink Calcite with 5% disseminated FeS2 mineralization.

101.1 - 115.8 Dacite Breccia - Dark green. Randomly oriented f-c stringers (7%) with some aligned 30° to A.of C. Slight increase in the amount of FeS2. Core is quite siliceous in short sections (20cm) 104.7 - 105.0 is a siliceous zone.

108.3 - 110.5 Fault zone gauge 50% Dacite fragments 50% Contact 15° to A.of C.

110.5 - 111.2 Dacite

111.2 - 113.1 Fault zone 70% Dacite fragments 30% gauge

113.1 - 115.8 Dacite Breccia

Project CONSOLIDATED SILVER RIDGE Location RED DOG

Hole No. 23 Page No. 1 of 4

Coordinates: 631 N 9765 E

Collar elev. 1465 Bearing 650

Inclination -550 Total Depth 115.8

Contractor LONGYEAR

Date Started

Date Finished

Ref. to Claim Corner

Logged by R. Forgath

CORE											SLUDGE									
Depth Interval		Sample No.	Inches Rec.	% Rec.	ASSAY						Depth Interval		Sample No.	Lbs. Rec.	% Rec.	ASSAY				
From	To				Au						From	To								
7.0	9.0	865	1.6	80	TR															
9.0	11.0	6	1.4	70	.005															
11.0	13.0	7	2.0	100	.013															
13.0	15.0	8	2.0	100	TR															
15.0	17.0	9	2.0	100	TR															
17.0	17.5	870	.5	100	.001															
17.5	17.8	1	.3	100	TR															
17.8	19.0	2	1.2	100	TR															
19.0	19.2	3	.2	100	TR															
19.2	20.0	4	.8	100	.009															
20.0	22.0	875	1.8	90	.007															
22.0	23.5	945	1.4	90	.008															
23.5	24.1	6	.6	100	.005															
24.1	25.5	7	1.4	100	.012															
25.5	27.0	8	1.5	100	.019															
27.0	28.5	9	1.5	100	.014															
28.5	30.3	950	.8	100	.007															
30.3	32.0	826	1.7	100	.012															
32.0	33.5	7	1.5	100	.028															
33.5	35.0	8	1.5	100	.012															
35.0	35.1	9	.1	100	.005															

Project [illegible] Location Kan-Dac Hole No. [illegible] Page No 2 of 4

Depth Interval From	Depth Interval To	CORE Sample No.	Inches Rec.	% Rec.	ASSAY Au					Depth Interval From	Depth Interval To	SLUDGE Sample No.	Lbs. Rec.	% Rec.	ASSAY				
35.6	35.9	830	.3	100	.010														
35.9	37.1	1	1.2	100	.013														
37.1	38.6	2	1.5	100	.013														
38.6	40.0	3	1.4	100	.012														
40.0	41.5	4	.9	60	.016														
41.5	42.7	5	1.0	83	.007														
42.7	44.0	6	1.3	100	.006														
44.0	45.4	7	1.4	100	TR														
45.4	47.0	8	1.1	69	.009														
47.0	48.5	9	1.0	67	.029														
48.5	49.4	840	.5	60	.009														
49.4	50.8	1	.4	25	TR														
50.8	54.2	2	1.8	53	.011														
54.2	55.2	3	.5	50	.005														
55.2	56.0	4	1.8	100	.015														
56.0	56.3	5	.3	100	.018														
56.3	58.5	6	2.3	100	TR														
58.5	60.3	7	1.8	100	TR														
60.3	61.5	8	1.1	90	.018														
61.5	63.0	9	1.1	75	.012														
63.0	64.3	850	1.0	77	.018														
63.4	65.0	876	.5	85	.047														
65.0	65.3	7	.25	85	TR														
65.3	65.8	8	.4	85	.019														

Project CSM Location Rad Dog Hole No. 23 Page No. 3 of 4

Depth Interval From	Depth Interval To	CORE Sample No.	Inches Rec.	% Rec.	ASSAY Au	Depth Interval From	Depth Interval To	SLUDGE Sample No.	Lbs. Rec.	% Rec.	ASSAY
65.8	67.4	879	1.6	100	.008						
67.4	67.8	880	.4	100	.012						
67.8	68.2	1	.4	100	.026						
68.2	70.0	2	1.8	100	.012						
70.0	71.7	3	1.7	100	.008						
71.7	72.9	4	1.2	100	.012						
72.9	74.7	5	1.8	100	.016						
74.7	76.5	6	1.0	93	.013						
76.5	78.0	7	1.4	93	.028						
78.0	80.0	8	2.0	100	.005						
80.0	82.0	9	2.0	100							
82.0	84.0	890	2.0	100	.005						
84.0	86.4	1	2.4	100	.018						
86.4	88.0	2	1.4	90	.010						
88.0	90.4	3	1.3	90	.017						
90.4	92.0	4	1.2	80	.009						
92.0	94.0	5	1.3	65	.008						
94.0	96.0	6	1.4	70	.005						
96.0	98.0	7	1.6	80	.006						
98.0	100.4	8	2.0	83	TR						
100.4	101.1	9	.7	100	TR						
101.1	103.0	900	1.3	100	.005						

Project LSH Location RED DOG Hole No. 4W Page No 4 of 4

Depth Interval From	Depth Interval To	CORE Sample No.	Inches Rec.	% Rec.	ASSAY Au					Depth Interval From	Depth Interval To	SLUDGE Sample No.	Lbs. Rec.	% Rec.	ASSAY				
103.0	105.0	951	2.0	100	.001														
105.0	107.0	2	1.7	85	TR														
107.0	109.0	3	1.6	80	TR														
109.0	111.0	4	2.0	100	TR														
111.0	113.5	5	1.9	76	.011														
113.5	115.8	956	2.3	100	.001														

Project: CONSOLIDATED SILVER RIDGE Location: RED DOG Contractor: LONGYEAR CANADA

Hole No.: DDH-24 Page No.: 1 of 6 Date Started: SEPT 29/80

Coordinates: 9500 N 9786 E Date Finished: OCT 1/80

Collar elev.: 1645 m Bearing: DUE EAST Ref. to Claim Corner:

Inclination: -63° Total Depth: 106.4 Logged by: T. Hogan

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY

COMMENTS:

AVE. CORE REC'Y/HOLE: 88.3%

0-6.1 Casing

6.1-7.9 Dante Tuff Breccia

Dark green with 5% randomly oriented Q-C stringers
Contains 1% diss Pyrite

7.9-12.7 Quartz Monzonite

Reddish green with 5% randomly oriented Qtz-Carb. stringers. Contact 70° to H/C. Contains minor diss Pyrite & Pyrrhotite

10.7-12.7 Dante Tuff Breccia

Dark green with 5% randomly oriented Qtz-Carb stringers
Contains minor Chalcopyrite with Malachite staining close to contact. 1% diss Pyrite and minor Pyrrhotite. Contact 90°

12.7-13.7 Quartz Monzonite - Dante Breccia

Pink-green Alt. Mon. matrix with 10% Dante Breccia fragments - Contains minor Pyrite. Contacts gauging at 60°

Project CSM Location RED DOG Hole No. 24 Page No. 2 of 6

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

13.7-16.8 Dacite Tuff Breccia

Medium to dark green with 5% randomly oriented Qtz-Carb stringers 4-5% stringers and discs Pyrite and minor Chalcopyrite. Core is slightly siliceous.

16.2 Fault zone - gauge

16.6-16.8 Fault zone gauge

16.8 From 16.8 there is very little mineralization

16.8-32.3 Quartz Monzonite

Pink-green colour. Contact 65° to A.C. Fracture surfaces are limonite stained. Minor randomly oriented Qtz-Carb stringers. Minor fine disc Pyrite.

22.5-26.0 Several gauge slips 15° to A.C.

27.7 Fault zone - gauge

28.0-28.7 Fault zone - gauge

28.7 Core has been broken and recemented to form a brecciated & Mon

Project CSM Location R&D Dog Hole No. 24 Page No. 3 of 6

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

32.3-38.1 Fault Zone.

50% gauge and 50% Qtz Monz and Dacite Breccia contains minor randomly oriented Qtz-Carb stringers which cut through breccia. Minor diss Pyrite

38.1-40.2 Dacite Tuff Breccia

Medium green-brown mottled. Cut by randomly oriented Qtz-Carb stringers Minor diss Pyrite. Contact 75°

39.7-40.2 Fault zone gauge

40.2-41.4 Quartz Monzonite

Pink-green colour. Core is very broken and limonite stained

40.8-41.4 Fault zone 50% gauge.

41.4-42.3 Basalt Dyke

Black, contact at 45° to B.A.C. Diss white crystals of Carbonate

42.3-43.6 Quartz Monzonite (Fault Zone)

50% QM 50% gauge. Fracture surfaces are limonite stained

Project CSM Location Red Dog Hole No. 24 Page No. 4 of 6

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

43.6-45.0 Dacite Tuff Breccia

Medium to dark green with 5% randomly oriented Qtz-Carb stringers. Fracture surfaces are limonite stained. Contains minor diss Pyrite

44.7-44.8 10cm banding 30% Qtz-Carb at 80° to HRC.

45.0 Minor Arsenopyrite

45.0-106.4 Rhyodacite Tuff Breccia

Light green-brown mottled. Contains 1% diss Pyrite and minor diss Arsenopyrite. Quite siliceous in places. Contains 3% randomly oriented Qtz-Carb stringers

46.1-46.2 Brecciated chloritized banding 80° to HJC.

47.0- This bed looks identical to one cut in 79-2 (67m) and in S-4 (high grade). There is an increase in the amount of diss Arsenopyrite

48.6-48.7 Brecciated banding 80° to HJC (bedding?)

49.8 Minor Sphalerite in Qtz-Carb stringer 50° to HJC.

Project CSM Location RED DOG Hole No. 24 Page No. 5 of 6

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

49.8-50.3 Good strong Arsenopyrite mineralization

53.4 Contact at 80° to A/C. Very fine grained (siltstone.?) with undulating banding at 20° to A/C.

56.6 Finely brecciated zone 40° to A/C.

57.0 5cm Qtz-Carb stringer at right angles to A/C. containing Arsenopyrite, Sphalerite, & Pyrite mineralization. Slightly offset by Qtz-Carb stringer cutting at 15° to A/C.

57.8-58.0 Minor Sphalerite in Qtz-Carb stringers

58.3 3cm Qtz-Carb stringer 60° to A/C with Pyrite, Arsenopyrite and Sphalerite mineralization.

61.8-61.9 10cm brecciated band 60° to A/C with good Arsenopyrite, Pyrite and minor Sphalerite mineralization

63.8-66.0 Very fine grained

69.0-69.2 Fault zone

70.3-70.5 Fault zone.

Project CSM Location RED DOG Hole No. 24 Page No. 6 of 6

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

72.8-73.0 Fault zone

74.4-74.7 Fault zone

74.8-74.9 Good Arsenopyrite mineralization 7%

82.6-83.0 Good Arsenopyrite mineralization

81.6 Bedding 80° to HJC.

85.0-85.3 Banding at 30° to HJC.

89.5-91.5 Increase in the amount of disc Arsenopyrite. Minor Pyrrhotite

91.5-97.2 Very siliceous zone. 60% Quartz 4% Pyrite with minor Pyrrhotite & Arsenopyrite

97.2-98.2 Very fine grained (siltstone?) light green.

98.2-99.4 Fault zone

100.8-101.2 Fault zone

106.0-106.4 Fault zone.

Project *Consolidated Silverridge* Location *Red Dog* Contractor *Longyear Canada*

Hole No. *2A* Page No. *1* of *3* Date Started

Coordinates: N E Date Finished

Collar elev. *164? m* Bearing Ref. to Claim Corner

Inclination *-63°* Total Depth *106.4* Logged by *R. Hogarth*

CORE										SLUDGE									
Depth Interval		Sample No.	Inches Rec.	% Rec.	ASSAY					Depth Interval		Sample No.	Lbs. Rec.	% Rec.	ASSAY				
From	To				Ag					From	To								
6.1	7.9	957	1.9	72	.023														
7.9	10.7	8	1.6	58	.009														
10.7	12.7	9	1.8	90	.009														
12.7	13.7	960	1.0	100	.009														
13.7	16.0	1	2.3	100	.022														
16.0	18.9	2	2.9	100	.005														
18.9	20.4	3	1.5	100	.005														
20.4	22.0	4	1.6	100	.005														
22.0	24.0	5	2.0	100	.009														
24.0	26.0	6	2.0	100	.035														
26.0	28.0	7	2.0	100	TR														
28.0	30.0	8	1.8	88	.005														
30.0	32.3	9	2.3	100	.011														
32.3	35.0	970	2.2	83	.014														
35.0	38.1	1	2.2	71	.009														
38.1	40.2	2	1.8	86	TR														
40.2	41.4	3	1.0	77	.008														
42.3	43.6	4	.86	86	.006														
43.6	45.0	5	1.4	100	.010														
45.0	47.0	6	2.0	100	.028														
[illegible]	[illegible]	7	[illegible]	[illegible]	[illegible]														

Project [illegible] Location [illegible] Hole No. 2 Page no 2 of 3

CORE										SLUDGE									
Depth Interval		Sample No.	Inches Rec.	% Rec.	ASSAY					Depth Interval		Sample No.	Lbs. Rec.	% Rec.	ASSAY				
From	To				Au					From	To								
49.0	49.8	978	.8	100	.011														
49.8	50.3	9	.5	100	.037														
50.3	52.5	980	2.2	100	TR														
52.5	54.5	1	2.0	100	.006														
54.5	56.5	2	2.0	100	.007														
56.5	58.5	3	2.0	100	.007														
58.5	60.5	4	2.0	100	.032														
60.5	62.5	5	2.0	100	.028														
62.5	64.5	6	2.0	100	.027														
64.5	66.5	7	2.0	100	.010														
66.5	68.5	8	2.0	100	.037														
68.5	70.5	9	7.8	90	.021														
70.5	72.5	990	1.9	95	.019														
72.5	74.5	1	2.0	100	.006														
74.5	76.5	2	2.0	100	.018														
76.5	78.5	3	2.0	100	.007														
78.5	80.5	4	2.0	100	TR														
80.5	82.5	5	2.0	100	.008														
82.5	84.5	6	2.0	100	.019														
84.5	86.5	7	2.0	100	.006														
86.5	88.5	8	2.0	100	.022														
88.5	90.5	9	2.0	100	.006														
90.5	92.5	1000	2.0	100	TR														

Project [illegible] Location [illegible] Hole No. [illegible] Page No. 3 of [illegible]

CORE											SLUDGE								
Depth Interval					ASSAY					Depth Interval					ASSAY				
From	To	Sample No.	Inches Rec.	% Rec.	Au					From	To	Sample No.	Lbs. Rec.	% Rec.					
92.5	94.0	143	2.0	100	.024														
94.5	97.2	4	2.0	100	012														
97.2	99.4	5	1.3	59	TR														
99.4	101.2	6	1.0	56	.005														
101.2	104.0	7	2.4	89	TR														
104.0	106.4	148	2.2	88	TR														

Property: Cominco Silver River | Location: Ken Dog | Contractor: Lou Vezina Koxwar (?)

Hole No. 25 | Page No. 1 of 4 | Date Started: Oct 1/80

Coordinates: ____ N ____ E | Date Finished: Oct 6/80

Collar elev. 1145 m | Bearing: Due East. | Ref. to Claim Corner: ____

Inclination: -80 | Total Depth: 106.1 m | Logged by: K. Bogrich (?)

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE: 95.0%

0-6.1 Casing

6.1-13.6 Quartz Monzonite

Pink-green colour. Minor randomly oriented Qtz Carb stringers 5% diss Biotite 1% diss Pyrite

13.6-14.2 Dacite Tuff Breccia

Medium to dark green. Contact 70° Contains minor (.5%) diss Pyrite

14.2-78.3 Quartz Monzonite

Pink-green colour. Minor randomly oriented Qtz-Carb stringers 5% diss Biotite 1% diss FeS_2.

15.8- 7cm gouge 70° to A/C.

27.5-29.0 Minor diss Chalcopyrite

30.3-38.2 Quartz Monzonite has been broken and recemented to form a breccia. Gouge slips approx every ½ metre at 35° Contains minor diss Pyr. 37.3-38.2 Fault zone gouge.

Project 25mm Location Red Dog Hole No. 25 Page No. 2 of 4

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

38.5-39.1 Fault zone gauge

40.5-40.7 Fault zone gauge

45.7-46.0 Fault zone gauge

46-47.0 Core is slightly leached

47.0-58.0 Core is fairly fractured and fracture surfaces are limonite stained

66.0-66.1 Fault zone gauge

66.1 Core is almost barren, only minor Pyrite

70.2-78.3 Minor Arsenopyrite & minor Pyrrhotite mineralization

76.8-78.3 Core is very fractured and faulted.

78.3 - 94.2 Rhyodacite Tuff Breccia

Light to medium green-brown mottled. Contains 5% randomly oriented A-C stringers. Contact 80°

Project Con Location Few Dog Hole No. 83 Page No. 3 of 7

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

78.3-82.0 Shear is moderate Pyrite, Arsenopyrite, Chalcopyrite & Pyrrhotite mineralization

82.0-84.1 Mainly Pyrite & Pyrrhotite mineralization

84.1- Bedding at 50° to H.C. This bed is much more siliceous. Mineralization is Pyrite 1% & Pyrrhotite 1% Carbonate stringers cut Quartz stringers

81.0-87.9 Core is finely brecciated with contact 50°

90.0-94.2 Core is very broken 91.0-91.2 Fault zone.

91.5 Minor Arsenopyrite mineralization

91.8-92.0 Fault zone.

93.8-94.2 Fault zone

94.2-96.6 Basalt Dyke

Black, medium grained, slightly porous with clear white blebs (Carbonate?)

Project LSM Location RedDog Hole No. 25 Page No. 4 of 4

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

96.6-106.1 Rhyodacite Tuff Breccia

Light to medium grey-brown mottled. Contains 5% randomly oriented A-C stringers

97.0-97.4 Fault zone

97.4-106.1 Pyrite & Pyrrhotite mineralization 5% combined.

98.1-106.1 Minor Chalcopyrite

105.8-106.1 Minor Arsenopyrite mineralization.

106.1 EOH

Project [illegible] Contractor [illegible]

Hole No. DDN-25 Page No. 1 of 2 Date Started

Coordinates: N E Date Finished

Collar elev. 1645 m. Bearing Ref. to Claim Corner

Inclination -80° Total Depth 106.1 M Logged by B. Hogarth

CORE										SLUDGE									
Depth Interval		Sample No.	Inches Rec.	% Rec.	ASSAY					Depth Interval		Sample No.	Lbs. Rec.	% Rec.	ASSAY				
From	To				Au					From	To								
6.1	8.0	150	1.3	67	.005														
8.0	10.0	1	1.8	93	.006														
10.0	12.0	2	2.0	100	.008														
12.0	13.6	3	1.6	100	TR														
13.6	14.2	4	.6	100	.005														
14.2	16.0	5	1.8	100	.022														
16.0	18.0	6	2.0	100	.008														
18.0	20.0	7	2.0	100	TR														
20.0	22.0	8	2.0	100	.027														
22.0	24.0	9	2.0	100	.022														
24.0	26.0	160	2.0	100	.005														
26.0	28.0	1	2.0	100	.008														
28.0	30.0	2	2.0	100	.005														
30.0	32.0	3	2.0	100	.007														
32.0	34.0	4	2.0	100	TR														
34.0	36.0	5	2.0	100	TR														
36.0	38.0	6	2.0	100	TR														
38.0	40.0	7	2.0	100	.008														
40.0	42.0	8	1.9	95	.005														
42.0	44.0	9	1.9	95	.017														
44.0	46.0	170	1.3	64	.006														

Project [illegible] Location Red Dog Hole No. [illegible] Page No. 2

CORE										SLUDGE								
Depth Interval		Sample No.	Inches Rec.	% Rec.	ASSAY					Depth Interval		Sample No.	Lbs. Rec.	% Rec.	ASSAY			
From	To				Au		[illegible]			From	To					[illegible]		
46.0	48.0	171	2.0	100	TR					96.6	98.0	195	.9	64	.064		.0700	
48.0	50.0	2	2.0	"	.005					98.0	100.0	6	1.6	76	.015	36	.5926 / 36	.016
50.0	52.0	3	2.0	"	.001					100.0	102.0	7	2.0	100	.008			
52.0	54.0	4	2.0	"	.009					102.0	104.0	8	2.0	100	.007			
54.0	56.0	5	2.0	"	.007					104.0	106.1	199	2.1	100	.026			
56.0	58.0	6	2.0	"	.009													
58.0	60.0	7	2.0	"	.006													
60.0	62.0	8	1.9	95	.006													
62.0	64.0	9	2.0	100	.032		.0640											
64.0	66.0	180	2.0	"	.007		.0140											
66.0	68.0	1	2.0	"	.018		.0360											
68.0	70.0	2	2.0	"	.019		.0380											
70.0	72.0	3	2.0	"	.011		.0220											
72.0	74.0	4	2.0	"	.027		.0540											
74.0	76.0	5	2.0	"	.007		.0140											
76.0	78.3	6	2.1	90	.012		.0280											
78.3	80.0	7	1.7	100	.008		.0140											
80.0	82.0	8	2.0	"	.019		.0380											
82.0	84.1	9	2.1	"	.006		.0126											
84.1	86.0	190	1.9	"	.014		.0270											
86.0	88.0	1	2.0	"	.043		.0860											
88.0	90.0	2	2.0	"	.012		.0240	.4476 / 26	.017 / 26									
90.0	92.0	3	2.0	"	.008		.0160											
92.0	94.2	194	1.2	60	.007		.0154											

Co-ordinates ?61? N ?08 Date ... ?4, ?

Collar elev. 1640 (APPROX) Bearing DUE EAST Hole ?

Ref. to Claim Corner

Inclination -63° Total Depth 106.7 Logged by R. Hogarth

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE: 98.4

0.0-6.1 Casing

6.1-39.7 Quartz Monzonite

Grey-green with distinct phenocrysts of Plagioclase. Approx 5% diss Biotite & 1% diss Pyrite. There is minor Chalcopyrite contained in Qtz-Carb stringers (3%) which cut core at 30, 45 & 65°. There is a very minor amount of Chalcopyrite diss in the Monzonite. There is also minor Arsenopyrite in the Qtz-Carb stringers

12.8-26.0 Good Arsenopyrite & Chalcopyrite mineralization in stringers There is also 0.5% diss Pyrrhotite. Mineralization is disseminating through the Monzonite

26.0- Mineralization is not as strong

32.6 7cm brecciated Qtz-Carb 45° to A of C with Pyrite, Chalcopyrite Arsenopyrite & Pyrrhotite mineralization

36.5-39.7 Q. Monzonite becomes brecciated with 15% Dacite making an indistinct contact. Minor Epidote along contact area.

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

39.7-59.8 Dacite Tuff Breccia

Medium to dark green 2% diss Pyrite 2-3% randomly oriented Qtz-Carb Stringers

47.6-49.0 There is a foliation or banding at 65° to B.C and minor diss Chalcopyrite & Pyrrhotite

54.2 Bedding at 45° to B.C

59.2-59.8 Zone of Chalcopyrite, Arsenopyrite & Pyrrhotite mineralization Core is slightly more siliceous.

59.8-60.0 Quartz Monzonite

Pink-green colour. Minor diss Pyrite

60.0-106.7 Dacite Tuff Breccia

As above.

60.8-62.5 Brecciated bed 45° to B.C 40% Carbonate & 20% Quartz the remainder Dacite with Pyrite, Pyrrhotite Chalcopyrite & Arsenopyrite mineralization

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

67.8-68.0 Fault zone gauge

69.2 1cm stringer with 30% FeAsS

75.3 Minor Arsenopyrite in 1cm Qtz-Carb stringer

76.0-78.4 Minor Arsenopyrite & Chalcopyrite mineralization in Qtz-Carb stringers (5%)

78.4-79.8 A re-brecciated siliceous bed with 1% finely diss Pyrite

79.8-86.0 Core is slightly more siliceous.

86.0 Core is more basic and contains only minor Pyrite

104.0-104.1 Fault zone gauge

EOH 106.7

Hole No. ______ Page No. ____ of ____

Co-ordinates: 61 ____ N 9 8 ____ E

Collar elev. 1640 (APPROX) Bearing DUE EAST

Inclination -60° Total Depth 106.7 M

Date Started ______

Date Finished Oct 14/80

Ref. to Claim Corner ______

Logged by R. Hogarth

CORE Depth Interval From	To	CORE Sample No.	Inches Rec.	% Rec.	ASSAY				L×A	SLUDGE Depth Interval From	To	SLUDGE Sample No.	Lbs. Rec.	% Rec.	ASSAY				
6.1	8.0	200	1.5	81	.011				.0209										
8.0	10.0	276	1.6	81	.206				.4120										
10.0	12.0	7	1.8	88	.017				.0340										
12.0	14.0	8	1.9	95	.056				.1120										
14.0	16.0	9	2.0	100															
16.0	18.0	280	2.0	100	.052				.1040										
18.0	20.0	1		↓	.036				.0720										
20.0	22.0	2			.092				.1840										
22.0	24.0	3			.023				.0460										
24.0	26.0	4			.021				.0420										
26.0	28.0	5			.008				.0160										
28.0	30.0	6			.018				.0360										
30.0	32.0	7			.016				.0320										
32.0	34.0	8			.091				.1820										
34.0	36.5	9			.019				.0285										
36.5	38.0	290			.085				.1275										
38.0	39.7	1			.005		6.1-38.0		1.4489 / 29.9	= .049 / 31.9									
39.7	42.0	2			.019														
42.0	44.0	3			.008														
44.0	46.0	4			.030														
46.0	48.0	5		↓	TR														

Project [illegible] Location [illegible] Hole No. 26 No. 2 of 3

Depth Interval		CORE								Depth Interval		SLUDGE							
From	To	Sample No.	Inches Rec.	% Rec.	ASSAY					From	To	Sample No.	Lbs. Rec.	% Rec.	ASSAY				
48.0	50.0	296			.007														
50.0	52.0	7			TR														
52.0	54.0	8			TR														
54.0	56.0	9			.009														
56.0	58.0	300			.005														
58.0	60.0	1		100	.029														
60.0	60.8	2	.7	90	.005														
60.8	62.5	3	1.5	90	TR														
62.5	64.0	4	1.5	100	.025														
64.0	66.0	5	1.8	90	.008														
66.0	68.0	6	2.0	100	.005														
68.0	70.0	7			.005														
70.0	72.0	8			.021														
72.0	74.0	9			TR														
74.0	76.0	310																	
76.0	77.5	1			.009														
77.5	78.4	2			.005														
78.4	79.8	3			TR														
79.8	82.0	4			.														
82.0	84.0	5			TR														
84.0	86.0	6			.028														
86.0	88.0	7			.017														
88.0	90.0	8			.010														
90.0	92.0	319		100	.008														

Project [illegible] Location RD 106 Hol. 26 Sht. [illegible] of [illegible]

Depth Interval From	Depth Interval To	CORE Sample No.	Inches Rec.	% Rec.	ASSAY					Depth Interval From	Depth Interval To	SLUDGE Sample No.	Lbs. Rec.	% Rec.	ASSAY				
92.0	94.0	320		100	.011														
94.0	96.0	1			.005														
96.0	98.0	2			021														
98.0	100	3			027														
100.0	102.0	4			TR														
102.0	104.0	5			.013														
104.0	106.7	326		100	.177														

Northing ... 13 ... N ... 98... Date ... 6 '10

Collar elev. 1640 (APPROX) Bearing DUE EAST Ref. to Claim Corner

Inclination -80° Total Depth 106.4 M Hole 21 Logged by R. Hogarth

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE: 96.6%

0.0-4.6 Casing

4.6-39.9 Quartz Monzonite

Grey-green colour. Contains minor Pyrite, Chalcopyrite and Pyrrhotite mineralization 2% fine randomly oriented Qtz-Carb stringers

17.4 2cm stringer of Arsenopyrite minor Chalcopyrite 50° to H&C.

20.0 Increase in the amount of disseminated Chalcopyrite

22.5 2cm stringer of Arsenopyrite and minor Chalcopyrite 30° to A&C.

23.0 Minor Arsenopyrite

24.6-39.9 Minor Arsenopyrite disseminated throughout the core.

39.9-47.0 Dacite Tuff Breccia

Medium to dark green. Sharp contact 80° to H&C. 0.5% randomly oriented Q-C stringers. Minor diss Pyrite & Pyrrhotite and Chalcopyrite mineralization

Project CS-11 Loc'd ... Hole 77 ... No. 3

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

41.8 Minor diss Arsenopyrite

47.0-47.3 Quartz Monzonite

Contact 50° to A&C. Well mineralized with Pyrite (5%) and minor Chalcopyrite, Arsenopyrite & Pyrrhotite

47.3 - 95.2 Dacite Tuff Breccia

As above.

51.6 2cm Qtz-Carb stringer with 10% Arsenopyrite & 2% Chalcopyrite mineralization

53.4 1cm Qtz-Carb stringer with 25% Arsenopyrite & 2% Chalcopyrite mineralization

59.0-59.5 Good Arsenopyrite and Chalcopyrite min in 3% Q-C stringers

63.1 Minor diss Chalcopyrite

70.1 2cm Qtz-Carb stringer 45° to A&C with 10% Arsenopyrite and 30% Pyrite.

73.1 2cm Qtz-Carb stringer 45° to A&C with 5% Arsenopyrite and 30% Pyrite.

...ict C-M Loc... 4-D ...ole ... C-7 Page No. 3

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

78.5 Minor Chalcopyrite

89.1 Minor diss Arsenopyrite

92.2-92.4 Fault zone gauge contains 10% Pyrite mineralization

94.8-95.2 Finely brecciated zone with 20% Qtz-carb- and 10% Pyrite with minor Pyrrhotite, Arsenopyrite and Chalcopyrite mineralization

95.2-106.4 Rhyodacite Tuff Breccia

Light green-brown mottled. Contains fine diss Pyrite & Pyrrholite & minor Chalcopyrite mineralization. 5% randomly oriented Qtz-carb stringers

98.3-98.8 Fault zone gauge

101.1-101.6 Very siliceous zone with 8% diss Pyrite and minor Chalcopyrite, Pyrrholite and Arsenopyrite mineralization.

106.4

Project: CONC SILVER RIDGE — Location: RED DOG — Contractor: LONGYEAR

Hole No.: 27 — Page No.: 1 of ____ — Date Started: Oct 9/80

Coordinates: 9613 N 9808 E — Date Finished: Oct 10/80

Collar elev.: 1640 (APPROX) — Bearing: DUE EAST. — Ref. to Claim Corner: ____

Inclination: -80° — Total Depth: 106.4 — Logged by: A. Hogarth

CORE												SLUDGE							
Depth Interval					ASSAY					Depth Interval					ASSAY				
From	To	Sample No.	Inches Rec.	% Rec.					L×H	From	To	Sample No.	Lbs. Rec.	% Rec.					
4.6	7.0	327	1.7	71	.023				.0557										
7.0	9.0	8	1.4	71	.022				.0440										
9.0	11.0	9	1.3	65	.026				.0520										
11.0	12.0	330	1.0	100	.018				.0180										
12.0	14.0	1	2.0	100	TR				0										
14.0	16.0	2	2.0	100	.008				.0160										
16.0	18.0	3	2.0	100	.006				.0120										
18.0	20.0	4	2.0	100	.018				.0360										
20.0	22.0	5	2.0	100	.010				.0200										
22.0	24.0	6	2.0	100	.031				.0620										
24.0	26.0	7	2.0	100	.106				.2120										
26.0	28.0	8	2.0	100	.092				.1840										
28.0	30.0	9	2.0	100	.025				.0500										
30.0	32.0	340	2.0	100	.005				.0100										
32.0	34.0	1	2.0	100	.006				.0120										
34.0	36.0	2	2.0	100	.007				.0140										
36.0	38.0	3	2.0	100	.019				.0380										
38.0	39.9	4	1.9	100	.021				.0399										
39.9	42.0	5	2.1	100	.013				.0273										

Project _____ Location _____ Hole No. _____ Page ___ of ___

Depth Interval		CORE								Depth Interval		SLUDGE							
					ASSAY										ASSAY				
From	To	Sample No.	Inches Rec.	% Rec.					L x H	From	To	Sample No.	Lbs. Rec.	% Rec.					
46.0	47.0	348	1.0	100	018				.0180										
47.0	47.3	9	0.3	100	.005				.0015										
47.3	49.0	350	1.7	100	.057				.0969										
49.0	50.0	1	1.0	100	020				.0200										
50.0	52.0	2	2.0	100	013			4.6 - 50	.0648										
52.0	54.0	3	2.0	100	.006														
54.0	56.0	4	2.0	100	.022														
56.0	58.0	5	2.0	100	.007														
58.0	60.0	6	2.0	100	.010														
60.0	62.0	7	2.0	100															
62.0	64.0	8	1.6	80	.006														
64.0	66.0	9	2.0	100	TR														
66.0	68.0	360	2.0	100	TR														
68.0	70.0	1	2.0	100	.026														
70.0	72.0	2	2.0	100	.008														
72.0	74.0	3	2.0	100	.007														
74.0	76.0	4	2.0	100	TR														
76.0	78.0	5	2.0	100	TR														
78.0	80.0	6	2.0	100	.007														
80.0	82.0	7	2.0	100	007														
82.0	84.0	8	2.0	100	TR														
84.0	86.0	9	1.9	95	TR														
86.0	88.0	370	1.7	95	.005														
88.0	90.0	371	2.0	100	.042														

Project _____ Location _____ Hole No. _____ Page No ___ of ___

Depth Interval		CORE								Depth Interval		SLUDGE							
From	To	Sample No.	Inches Rec.	% Rec.	ASSAY					From	To	Sample No.	Lbs. Rec.	% Rec.	ASSAY				
90	93.5	372	2.5	100	134														
93.5	94.8	3	2.3	100															
94.8	97.0	4	2.2	100	.012														
97.0	99.0	5	2.0	100	.005														
99.0	101.0	6	2.0	100	.009														
101.0	103.0	7	2.0	100	.011														
103.0	105.0	8	2.0	100	TR														
105.0	106.4	379	1.4	100	.005														

Pr[illegible] Con Silco Hinge — [illegible]ation Kel Dog — [illegible]actor Langyear Mining

Hole No. DDH -28 Page No. 1 of 4 — Date Started Oct 11 /80

Coordinates: 9645 N 9840 E — Date Finished Oct 12 /80

Collar elev. 1610 (APPROX) Bearing Due East — Ref. to Claim Corner

Inclination -58° Total Depth 81.1 metres — Logged by R. Hogarth

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE: 93.0%

00-6.4 Casing

6.4-11.1 Dacite Tuff Breccia

Medium to dark green-brown, mottled. 1% diss Pyrite and 3% Quartz-carb stringers mainly at 30°-50° to A of C. Core is very broken and Limonite stained

11.1-14.1 Quartz Monzonite

Contact 50° to A of C. Grey-green colour. Minor diss Pyrite & 3% diss Biotite

14.1-14.7 Dacite Tuff Breccia

Medium to dark green-brown, mottled. 2% diss FeS_2 1% randomly oriented Qtz-carb stringers

14.7-15.0 Quartz Monzonite

As above.

Project: [illegible] Location: [illegible] Hole No. [illegible] Page no. 3 of 4

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

15.0-33.0 Rhyodacite Tuff Breccia

Light grey, green mottled. 5% randomly oriented Quartz-Carb stringers. 2% finely diss Pyrite and minor Pyrrhotite.

15.0-16.5 Heavily mineralized with 3% diss Pyrite and 0.5% Arsenopyrite with minor Sphalerite, Chalcopyrite, and Pyrrhotite.

18.0 Quartz-Carb stringers aligned along bedding [illegible] to A/C

27.5 Minor Arsenopyrite

28.7 Minor Arsenopyrite. Very siliceous zone.

31.4 Minor Arsenopyrite. Very siliceous zone.

33.0-81.1 Dacite Tuff Breccia

Medium green-brown mottled. 3% randomly oriented Qtz-Carb stringers. 1% finely diss Pyrite. Minor diss Epidote & minor diss Pyrrhotite.

Project 2Su Location Red Dog Hole No. 20 Page No. 3 of 4

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION				FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

38.2 20% Arsenopyrite in 10cm Qtz-carb string

38.5-41.9 Core is very broken.

43.7-46.9 Siliceous zone of distinct brecciation. light grey matrix with 30% brown breccia pieces. Initial contact is indistinct but bottom contact is sharp at 60°. Contains pyrite (1%) and minor Arsenopyrite & Pyrrhotite mineralization throughout.

48.8 7cm Qtz-Carb stringer 80° to H.C with 30% Pyrite & [illegible] Arsenopyrite.

50.3-51.0 Siliceous zone with good Pyrite, Arsenopyrite Chalcopyrite & Pyrrhotite mineralization

52.5-58.0 Core is very broken.

60.3 Minor diss Arsenopyrite

61.6-61.9 Fault zone gouge

62.4-64.4 Siliceous zone. Contact & banded at 70° to H/C with good Pyrite (1%) and Arsenopyrite (2%) mineralization, and minor diss Sphalerite

Project CSMI Location KEW 106 Hole No. 28 Page No. 4 of 4

DRILLING INTERVAL	% CORE RECOVERED	CORE SIZE	SECTION	ALTERATION	FRACTURING	MINERAL	GEOLOGY	COMMENTS:	AVE. CORE REC'Y/HOLE:

71.5 3cm stringer at 60° to H.C. with 50% Pyrite 40% Arsenopyrite and 10% Sphalerite mineralization

72.4-73.4 0.5% diss Arsenopyrite mineralization in Dacite

73.4-78.0 Gradual change to a siliceous zone. Banding at 70° to H.C. at 75.9 & 77.4. There is good Pyrite Arsenopyrite, Chalcopyrite & Pyrrhotite mineralization diss & ten stringers

81.1 EOH (frozen out)

Project CSM Line Y-2L Cont 6 GY 3

Hole No. 28 Page No. 1 of

Coordinates: 9645 N 9840 E

Collar elev. 1610 (APPROX) Bearing Due EAST

Inclination -58° Total Depth 81.1

Date Started Oct 11 80

Date Finished Oct 12 80

Ref. to Claim Corner

Logged by R. Hogarth

Depth Interval		CORE								SLUDGE Depth Interval		SLUDGE							
From	To	Sample No.	Inches Rec.	% Rec.	ASSAY Au oz/t					From	To	Sample No.	Lbs. Rec.	% Rec.	ASSAY				
6.4	9.0	380	2.2	86	.052														
9.0	11.1	1	2.1	100	.118														
11.1	12.5	2	1.4	100	.005														
12.5	14.1	3	1.6	100	TR														
14.1	14.7	4	0.6	100	.007														
14.7	15.0	5	0.3	100	TR														
15.0	16.5	6	1.5	100	.014														
16.5	18.0	7	1.5	100	.006														
18.0	20.0	8	2.0	100	.013														
20.0	22.0	9	2.0	100	TR														
22.0	24.0	390	2.0	100	.005														
24.0	26.0	1	2.0	100	.007														
26.0	28.0	2	2.0	100	.016														
28.0	30.0	3	2.0	100	.024														
30.0	32.0	4	2.0	100	.054														
32.0	33.0	5	1.0	100	.463														
33.0	35.0	6	2.0	100	.009														
35.0	37.0	7	2.0	100	.041														
37.0	39.0	8	2.0	100	.005														
39.0	41.0	9	1.7	93	.007														
41.0	43.7	400	2.4	89	.129														

Project L-M Location [illegible] Hole No. 20 Page 21

Core Depth Interval From	Core Depth Interval To	Core Sample No.	Core Inches Rec.	Core % Rec.	Core Assay					Sludge Depth Interval From	Sludge Depth Interval To	Sludge Sample No.	Sludge Lbs. Rec.	Sludge % Rec.	Sludge Assay				
43.7	45.2	401	1.5	100	TR														
45.2	46.9	2	1.7	100	.118														
46.9	49.0	3	2.1	100	.051														
49.0	51.0	4	2.0	100	.005														
51.0	53.0	5	2.0	100	TR														
53.0	55.0	6	2.0	100	.005														
55.0	57.0	7	2.0	100	TR														
57.0	59.0	8	2.0	100	TR														
59.0	61.0	9	2.0	100	.005														
61.0	63.4	410	2.4	100	.033														
63.4	64.4	1	1.0	100	.026														
64.4	66.0	2	1.6	100	.026														
66.0	68.0	3	2.0	100	.012														
68.0	70.0	4	1.7	85	.007														
70.0	72.0	5	2.0	100	.012														
72.0	73.4	6	1.3	93	.007														
73.4	75.0	7	1.2	75	.007														
75.0	77.0	8	2.0	100	.007														
77.0	78.0	9	1.0	100	.028														
78.0	79.5	420	1.5	100	TR														
79.5	81.1	421	1.6	100	.019														