520001

DOLLY VARDEN MINES LTD. N.P.L.

General Outline of Engineering Information & Geology

Compiled by

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LOCATION AND ACCESS.

The Dolly Varden campsite is located 17 miles by public road up the Kitsault river from Alice Arm, B.C.

Alice Arm is a small village at the headwaters of a coastal inlet by this name. The village is expanding as the Kennco Co. are actively opening a molybdenite property 4 miles to the south. In late 1966, Kennco Explorations (Western) Ltd. (Canadian Subsidiary of the Kennecott Copper Corporation), is expecting to be in production at 6000 tons per day. The Newmont Corporation and other large companies are actively exploring extensions of the "molybdenum belt" which lies to the south and east of the silver-bearing rocks on the Dolly Varden claims; all adding to the expansion of facilities at the Village.

There is a daily DC-6 plane service from Vancouver to Prince Rupert connecting with daily float plane service to Alice Arm.

The Northern Navigation Company maintains a year-round weekly freight and passenger service from Vancouver via Prince Rupert. This is augmented in the summer by additional freighters as required on the northern route.

Hydro-electric power in any required amount will be available at Alice Arm late in 1966.

GENERAL OUTLINE

The Dolly Varden, Torbrit, North Star, and Wolf - all well-known mines, were brought together as one operation - Dolly Varden Mines Ltd. (N.P.L.) in 1961.

Past production from this camp has been approximately 20,000,000 ounces of silver. Present reserves available are outlined under "Reserves". In addition, large veins have unexplored sections on the continuation of the known orebodies and there are large areas of unexplored territory with geology very favorable for the occurrence of similar ore deposits. These united properties have excellent chances for the development of additional large tonnages of ore.

With the advent of the recent rise in the price of silver to over $1.40 per ounce Canadian, and the distinct possibility that there will be a further price rise in the near future, the amalgamation of the famous Alice Arm silver camp in British Columbia under the control of one operating company presents a unique opportunity to participate in the demand for silver. Dolly Varden Mines now has one of the largest reserves of silver ore in Canada.

BRITISH COLUMBIA
SCALE 1:2,000,000
1 inch equals approximately 32 miles
Miles 20 0 20 40 60 80 100 Miles
Road
Railway
Provincial capital
inches
centimetres
B R I T I S H
C O L U M B
QUEEN CHARLOTTE SOUND
VANCOUVER ISLAND
STRAIT
COAST DISTRICT RANGE 5
COAST DISTRICT RANGE 4
COAST DISTRICT RANGE 3
COAST DISTRICT RANGE 2
COAST DISTRICT RANGE 1
TWEEDSMUIR PROVINCIAL PARK
Prince Rupert
Prince George
Quesnel
Vancouver
VICTORIA
Hazelton
Kitimat
Ocean Falls
Bella Coola
Powell River
Courtenay
Nanaimo
Port Alberni
Juan de Fuca Strait
130°
129°
128°
127°
126°
125°
124°
123°

DOLLY VARDEN MINES LTD. (N.P.L.)

AERIAL VIEW

KITSAULT RIVER VALLEY

MARCH, 1966

0 1 2 MI.

inches

0 1

0 1 2

centimetres

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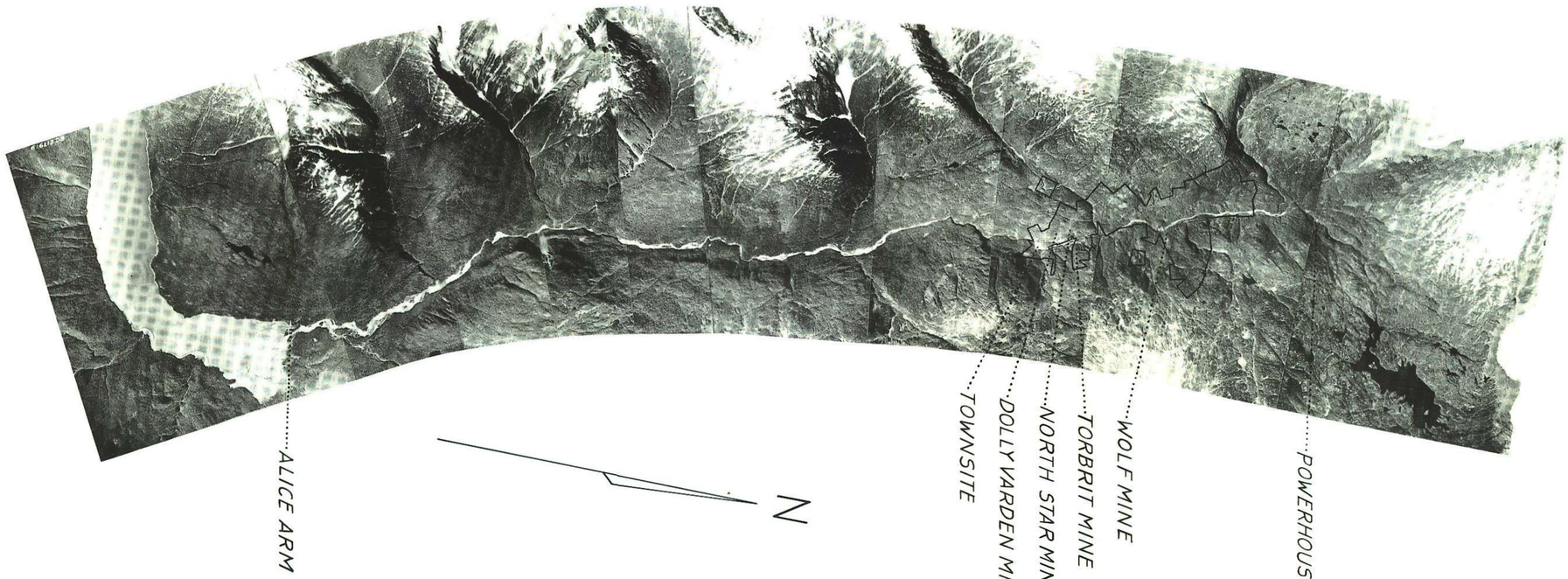


GENERAL GEOLOGY.

The rocks underlying the claims are in general those of the Hazelton Group consisting of a series of sedimentary and volcanic rocks of the Cretaceous-Jurassic ages intruded by altered feldspar porphyries.

The silver-bearing veins and lodes almost all occur in rocks described as rhyolite-dacite breccias in the southern part of the property while two miles north at the Wolf claims the orebodies occur in more massive and variously colored "greenstones".

To the west of these formations in the Upper Kitsault Valley an intrusive body, mostly feldspar porphyry, intrudes almost along the axis of a syncline in the shales and volcanics. The eastern contact of these intrusives with the Hazelton group is heavily pyritized and in many places contains significant amounts of copper. Very little exploration has been done on this "Copper Belt" group. The area is large and could produce significant bodies of copper ore.

J.M. Black describes the geology in the Minister of Mines' Report for the Province of British Columbia 1951.

Recent work done by Dolly Varden Mines suggests a much more detailed geological study will be necessary to solve many problems in the relationship of host rocks and faults.

There are a number of various types of mineral occurrences in the valley. At this time the important ones are:

(a) Quartz-barite-jasper veins and replacement deposits in volcanics contain silver, lead, and zinc sulphides with some native silver.

(b) Altered pyritized intrusives of the "Copper Belt".

Clusters of lamprophyre dykes are a distinctive feature of the Torbrit-North Star-Dolly Varden areas and mainly appear to be post-mineral.

Major and minor faulting occurs in the valley. Large and small faults can be distinguished from plans and from aerial photographs and much minor faulting is seen on underground maps.

LEGEND

CENOZOIC

MODERN

PLEISTOCENE AND RECENT

6 — *Recent alluvium and glacial drift*

TERTIARY

5 — *Basaltic lava*

MESOZOIC

JURASSIC AND, OR, CRETACEOUS

UPPER JURASSIC AND, OR, LOWER CRETACEOUS

4 — *Belt of quartz porphyry and quartz diorite dykes*

3 — **Coast Range Intrusives**; *granite, granodiorite, quartz diorite*

JURASSIC

1 2 — **Hazelton Group**; *possibly in part Triassic, in part Lower Cretaceous. 1 = sediments; 2 = igneous rocks.*

- 1: *argillite, greywacke, quartzite, limestone, tuff*
- 2a: *mainly massive and fragmental rhyolite-dacite and related types*
- 2b: *massive and fragmental rhyolite-dacite and augite porphyrite*
- 2c: *augite porphyrite and allied fragmental rocks, augite syenite, gabbro*
- 2d: *amphibolite, minor amounts of fragmental amphibolite, sediments (mainly as inclusions)*

inches 0 1

0 1 2 centimetres

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

Symbols

Geological boundary (defined)

Geological boundary (approximate)

Fault (defined, approximate)

Bedding (inclined, vertical, horizontal)

PORTLAND CANAL AREA

CASSIAR DISTRICT

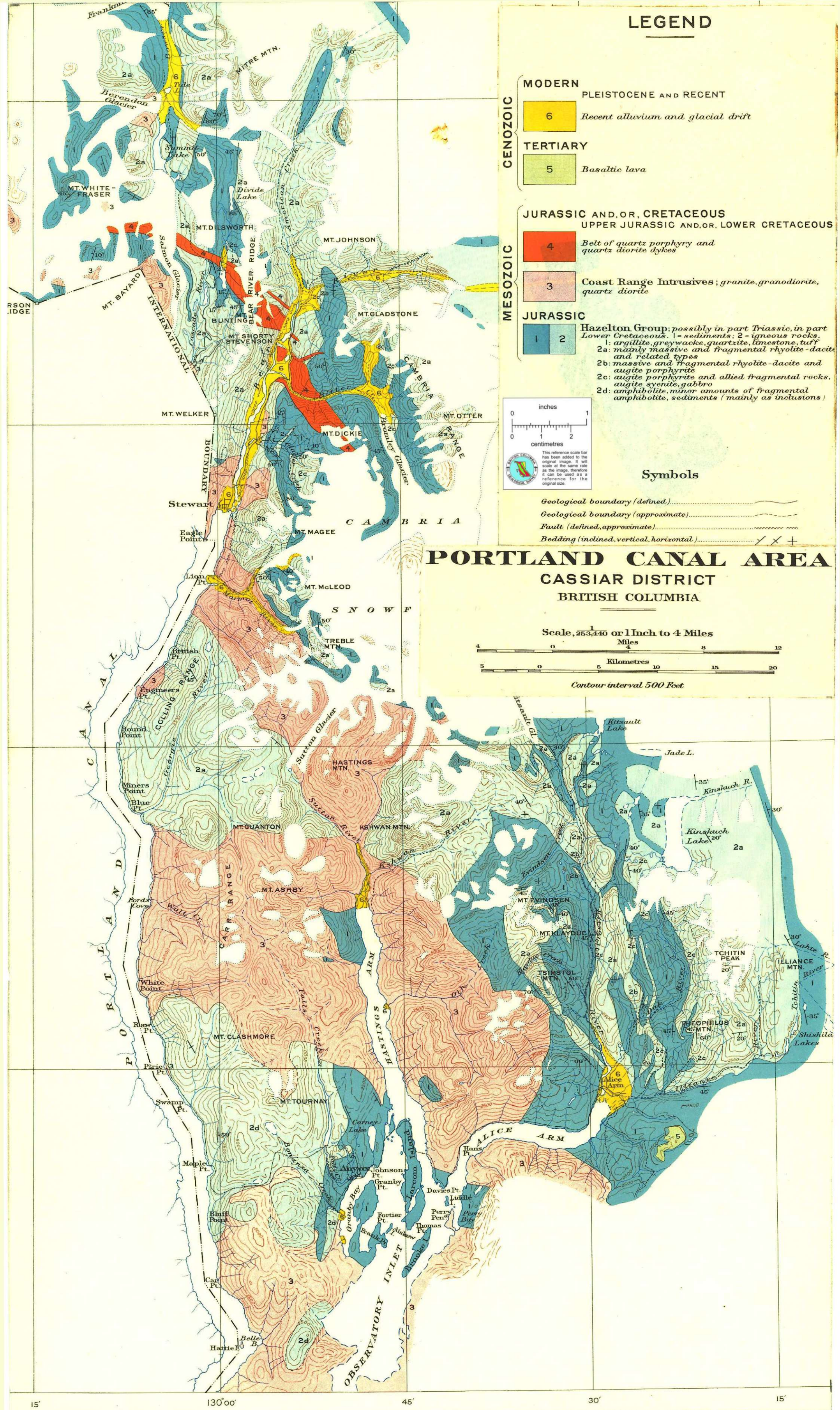
BRITISH COLUMBIA

Scale, $\frac{1}{253,440}$ or 1 Inch to 4 Miles

Miles 4 0 4 8 12

Kilometres 5 0 5 10 15 20

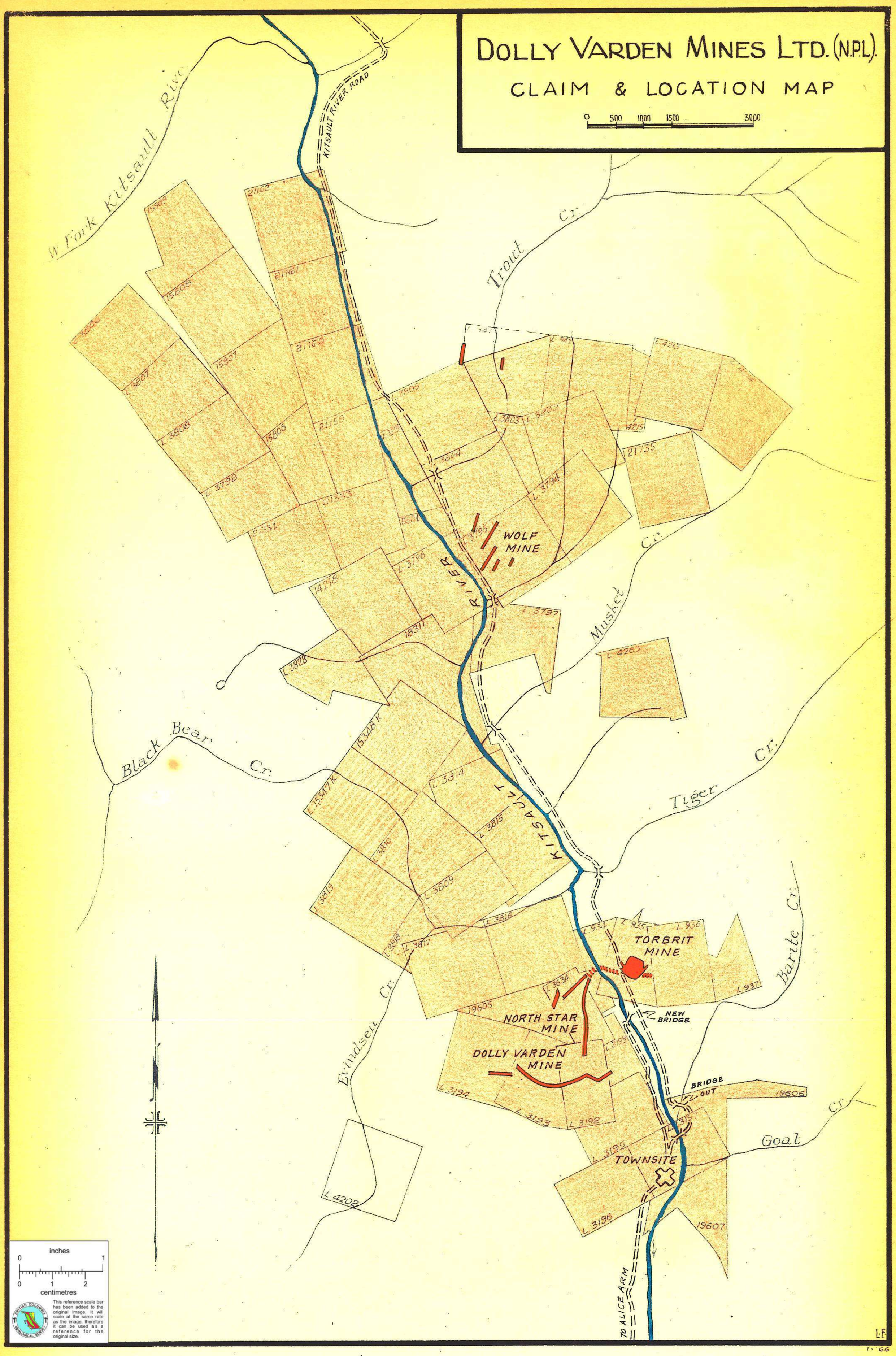
Contour interval 500 Feet



DOLLY VARDEN MINES LTD. (N.P.L.)

CLAIM & LOCATION MAP

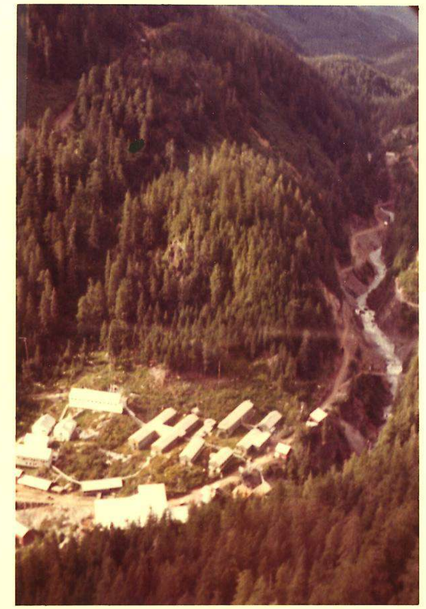
0 500 1000 1500 3000



DOLLY VARDEN MINES LTD. (N.P.L.)

PLANT

1. Guest house at Alice Arm



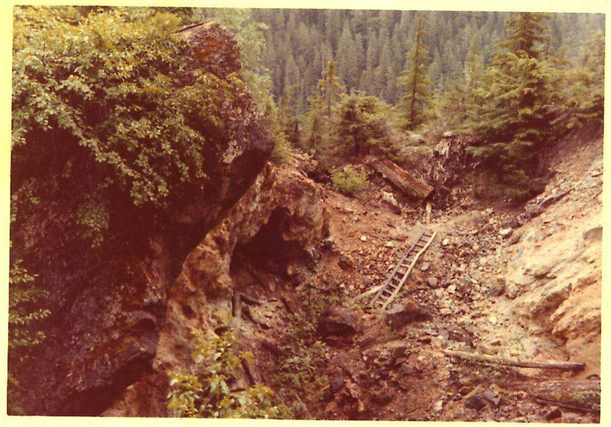
2. Townsite of Dolly Varden Mines Ltd. 14 miles north of Alice Arm. Looking north along Kitsault River canyon and road to Wolf Mine.

3. Townsite. Mill and shops at right, apartment and staff houses, on left, bunkhouses at centre.

4. 2000 H.P. hydro-electric plant with operators house and transformer housing. North of Wolf Mine.

DOLLY VARDEN MINES LTD. (N.P.L.)

DOLLY VARDEN MINE



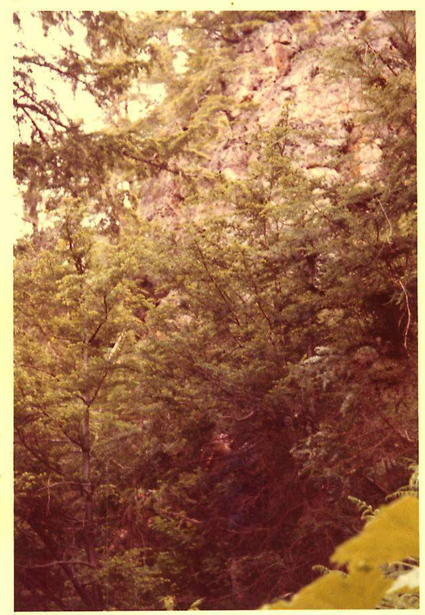
5. Looking N.E. across upper glory hole

6. Looking S.W. along vein and lower glory hole

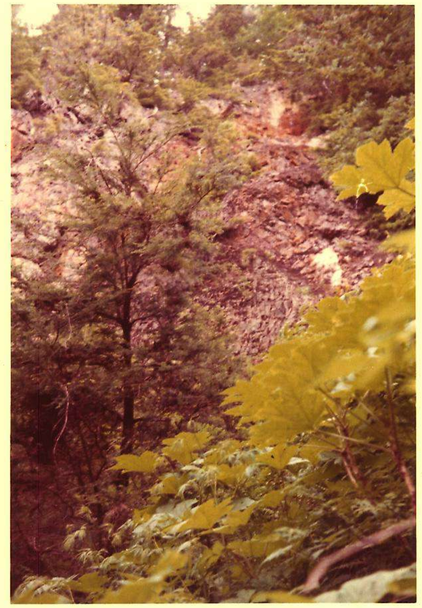
DOLLY VARDEN MINES LTD. (N.P.L.)

WOLF MINE

7. Looking N. No. 2 vein workings start at right



8. Looking N.W. along No. 1 vein outcrop



9. Looking N.E. along No. 1 vein outcrop

DOLLY VARDEN MINE

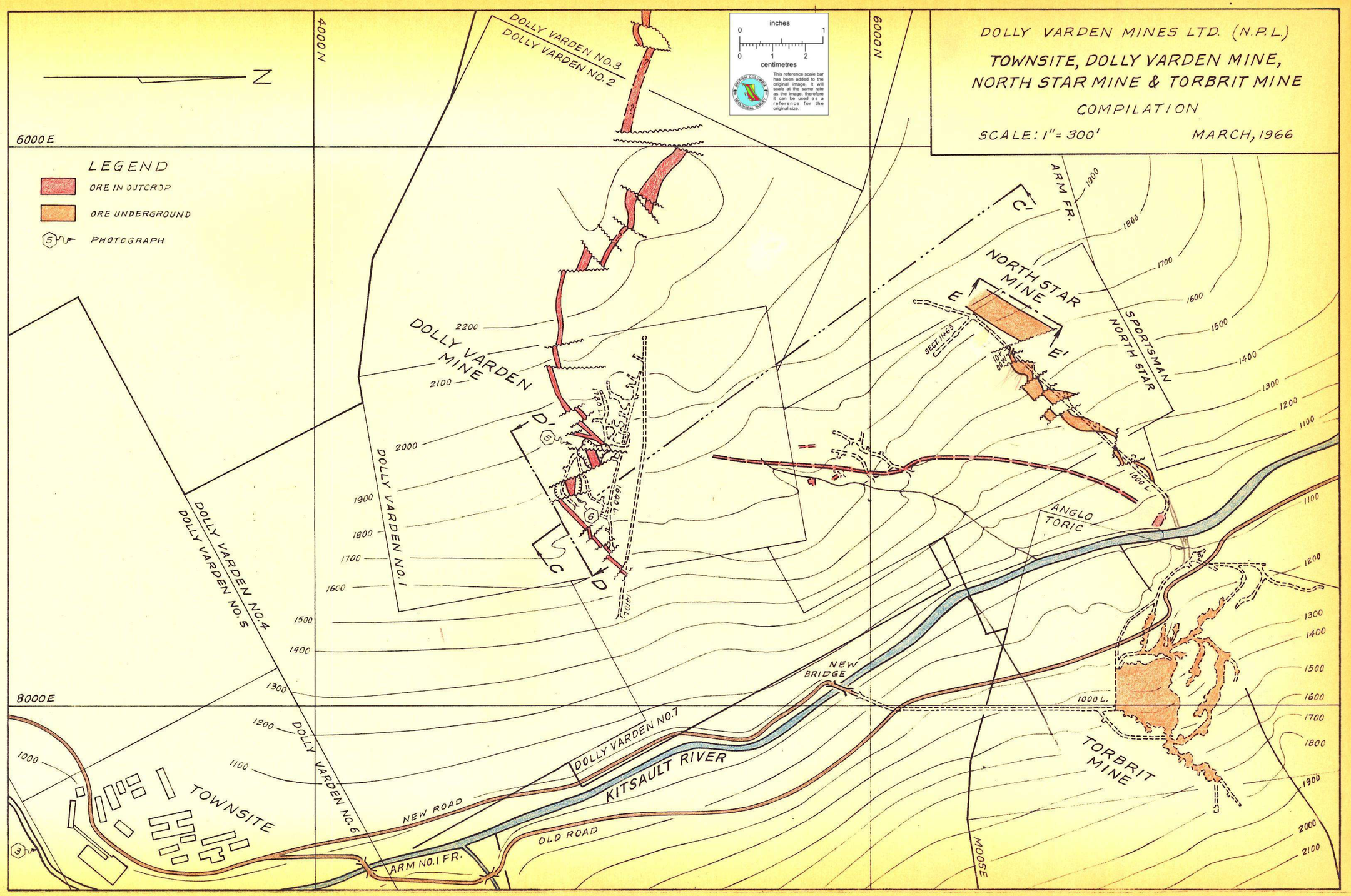
During the three years of its production - 1919 to 1921 - 36,620 tons of ore were mined, yielding 1,301,238 ounces of silver, a grade of 35.5 ounces of silver per ton. This was shipping-ore from the upper 250 feet of a 300 foot section of the main vein. The remaining known long length on this vein has not been explored underground and has been probed by only one diamond drill hole, said to be high-grade but no core is available.

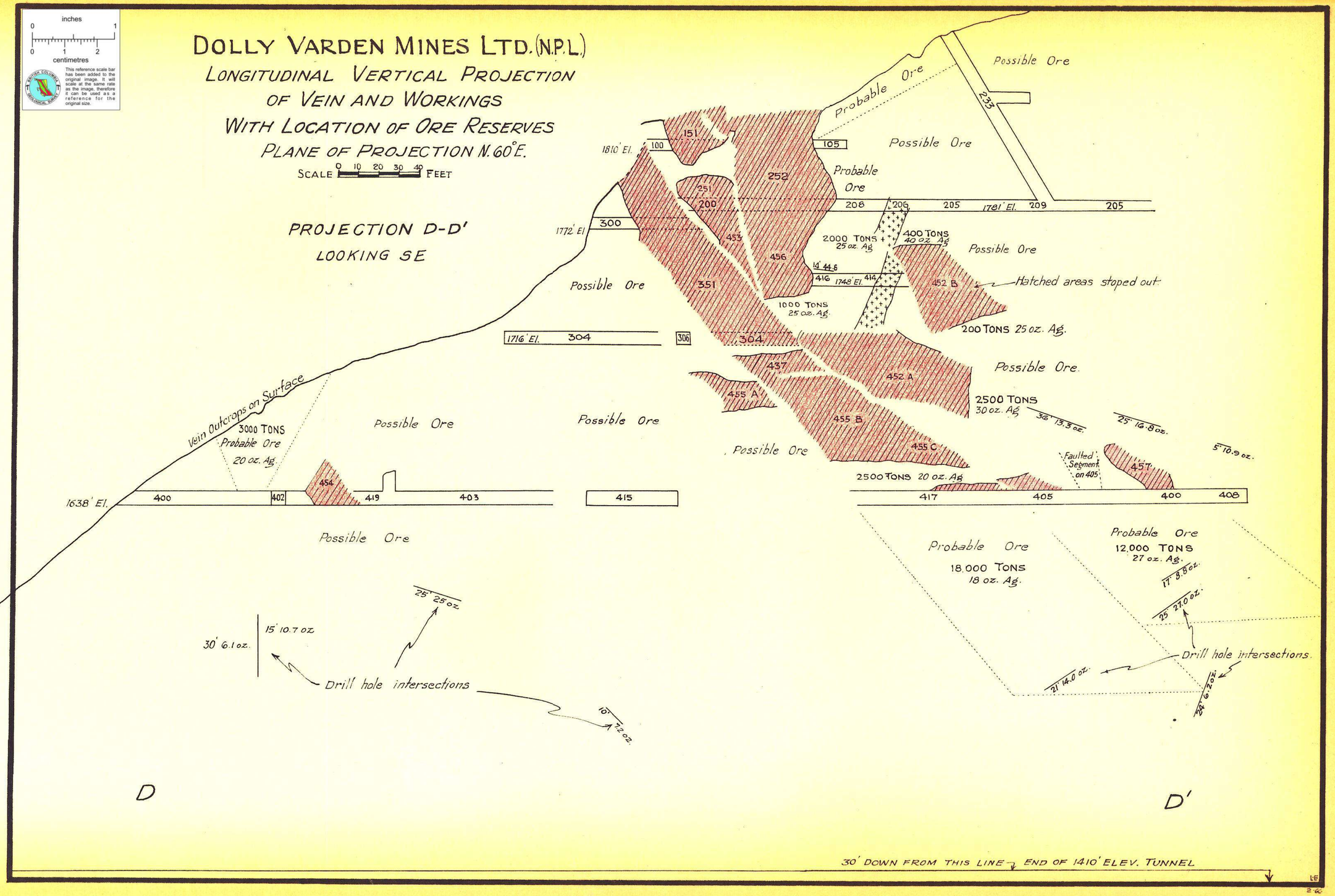
47,000 tons of ore averaging 22.0 ounces of silver per ton are indicated as remaining within and around the original shipping area and there are excellent possibilities that further ore can be found along the vein and on downward horizons within it.

Vein widths are in the neighbourhood of 10 to 20 feet; seldom much narrower, often wider.

The main vein continues across at least two claim lengths and, although not all of it is ore, geological considerations of rake and dip show that ore-shoots could be projectable for its entire length.

Following a decline in the price of silver in 1921 work was stopped and the mine lay abandoned until 1961 (except for a small leasing operation in the late 1930's) when the present new company obtained an option to purchase it.


DOLLY VARDEN MINES LTD. (N.P.L.)
TOWNSITE, DOLLY VARDEN MINE,
NORTH STAR MINE & TORBRIT MINE
COMPILATION
SCALE: 1" = 300'
MARCH, 1966
inches
0 1
0 1 2
centimetres
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.
BRITISH COLUMBIA GEOLOGICAL SURVEY
N
LEGEND
ORE IN OUTCROP
ORE UNDERGROUND
PHOTOGRAPH
6000 E
8000 E
4000 N
6000 N
DOLLY VARDEN NO. 3
DOLLY VARDEN NO. 2
DOLLY VARDEN MINE
DOLLY VARDEN NO. 1
DOLLY VARDEN NO. 4
DOLLY VARDEN NO. 5
DOLLY VARDEN NO. 6
DOLLY VARDEN NO. 7
NORTH STAR MINE
SPORTSMAN NORTH STAR
ARM FR.
ANGLO TORIC
TORBRIT MINE
TOWNSITE
KITSAULT RIVER
NEW BRIDGE
NEW ROAD
OLD ROAD
ARM NO. 1 FR.
MOOSE
SECT. 1463
1000 L.
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000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DOLLY VARDEN MINES LTD. (N.P.L.)
LONGITUDINAL VERTICAL PROJECTION
OF VEIN AND WORKINGS
WITH LOCATION OF ORE RESERVES
PLANE OF PROJECTION N. 60° E.
SCALE 0 10 20 30 40 FEET
PROJECTION D-D'
LOOKING SE
Possible Ore
Probable Ore
233
151
100
105
1810' El.
252
251
200
208
206
205
1781' El.
209
205
1772' El.
300
453
456
2000 TONS
25 oz. Ag.
400 TONS
40 oz. Ag.
14' 44.6
416
1748' El.
414
452 B
Hatched areas stoped out
351
1000 TONS
25 oz. Ag.
200 TONS 25 oz. Ag.
1716' El.
304
306
304
437
452 A
455 A
2500 TONS
30 oz. Ag.
36' 13.3 oz.
25' 16.8 oz.
5' 10.9 oz.
455 B
455 C
Faulted Segment on 405
457
2500 TONS 20 oz. Ag.
417
405
400
408
Vein Outcrops on Surface
3000 TONS
Probable Ore
20 oz. Ag.
1638' El.
400
402
454
419
403
415
Probable Ore
18,000 TONS
18 oz. Ag.
Probable Ore
12,000 TONS
27 oz. Ag.
17' 8.8 oz.
25' 27.0 oz.
21' 14.0 oz.
24' 6.2 oz.
Drill hole intersections.
25' 25 oz.
30' 6.1 oz.
15' 10.7 oz.
Drill hole intersections
10' 1.2 oz.
D
D'
30' DOWN FROM THIS LINE
END OF 1410' ELEV. TUNNEL

FORM T-12

COLLAR: D. V. Coords.
NORTH 40 North
EAST 393 West
ELEVATION 1840 Approx.
AZIMUTH South 27 degrees West
DIP Minus 30 degrees down.
LEVEL Surface.

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. D.V.S. 200
COMMENCED October 17th, 1962
FINISHED Still drilling.
PURPOSE OF HOLE Exploration.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ.	% Pb	AG X W		
0	24	Casing in purple tuffs.									
24	27	Purple tuffs which are slightly sheared.									
27	30	Light green volcanic breccia.									
30	45	Purple tuffs with calcite threads.									
45	47	Green volcanic breccia.									
		Approximate Torbrit coordinates.									
		North 5120									
		East 7050									

FORM T-12

DOLLY VARDEN MINES LIMITED

(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

COLLAR:

NORTH 40 Torbrit 5120
EAST 393 Torbrit 7050
ELEVATION 1840 Approx.
AZIMUTH South 27 Degrees West
DIP Minus 30 Degrees down
LEVEL Surface

HOLE NO. D.V.S. 200
COMMENCED Oct. 17th, 1962
FINISHED Still drilling
PURPOSE OF HOLE Exploration Dolly Varden Vein

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
		ADD DIAMOND DRILL HOLE D.V.S. 200	1001	24	26	2	not	for assay.			Purple tuffs
47	49	Quartzy breccia with pyrite and calcite stringers.	1002	30.9	35.9	5	not	for assay.			Purple tuffs
		Some marcasite and a little galena and argentite at 48.	1003	35.9	40.9	5	not	for assay			Purple tuffs
49	58	Quartz vein breccia with a little mixture of	1004	40.9	43.6	2.7	no	assay			
		volcanics. Some pyrite and a little marcasite. Galena 49,54,56. Ruby silver at 55									
58	60	Quartz breccia vein with ruby silver at 60.	1005	43.6	48.0	4.4)	0.42				Galena, Pyrite, Argentite, Marcas
		Argentite at 58, galena at 59.				)					Pyrite and marcasite
60	70	Quartz vein breccia with volcanics slightly	1006	48	53	5)	10.8				Ruby and Arg.
		sheared with fine xls of pyrite.				)					
70	80	Quartz vein breccia with ruby silver 70,72,73,74.	1007	53	54.8	1.8)	37.9				
		Argentite 72, 73. Native silver 79? Galena at 74. Barite laths at 78-79	1008	54.8	60	5.2	56.3				
			1009	60	65	5.	2.3				
			1010	65	70	5	1.7				
			1011	70	75	5	42.0				
			1012	75	80	5	37.9				

FORM T-12

COLLAR:
NORTH 40 Torbrit 5120
EAST 393 Torbrit 7050
ELEVATION 1840 Approx.
AZIMUTH South 27 degrees West
DIP Minus 30 degrees down
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. D.V.S. 200
COMMENCED Oct. 17th. 1962
FINISHED Oct. 25th. 1962
PURPOSE OF HOLE Exploration

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ.	% PB	AG X W		
		ADD DIAMOND DRILL HOLE dD V S 200	1013	80	82	2	59.4				
80	82	Quartz breccia vein with marcasite and sphalerite	1014	82	87	5	19.2				
82	87	Volcanic breccia with vein breccia. Some marcasite and chalcopyrite.	1015	87	92	5	4.0				
87	95	Grey Volcanic Breccia with 5% vein breccia and 2% Marcasite.									
95	126	Volcanic breccia showing strong shearing 122-126. Hole ended in timbering? along the 206 fault in the 205 cross cut on the 1781 level.									
		END OF HOLE.									

NORTH STAR MINE

The North Star ore lies between the Dolly Varden and Torbrit orebodies and forms part of the same silver-bearing zone.

An adit tunnel was driven near to this mineralized zone and diamond drill holes were used to explore it from this entry.

Twenty diamond drill holes indicated at least 125,000 tons of ore averaging about 15 ounces of silver, 1% lead, and 3% zinc. Ore widths range around ten to twenty-five feet. There are strong indications that additional tonnages could be quickly outlined and that by continuing along the zone into the original Dolly Varden claims very large amounts of ore may be developed. The Dolly Varden known-ore is 700 - 1,200 feet higher and rakes downward in the ore zone ahead of the present North Star workings. This large, totally unexplored area has not yet been touched and provides much promise for future development.

In the North Star-Dolly Varden zone there may be three distinct veins which should provide zones similar to the Torbrit.

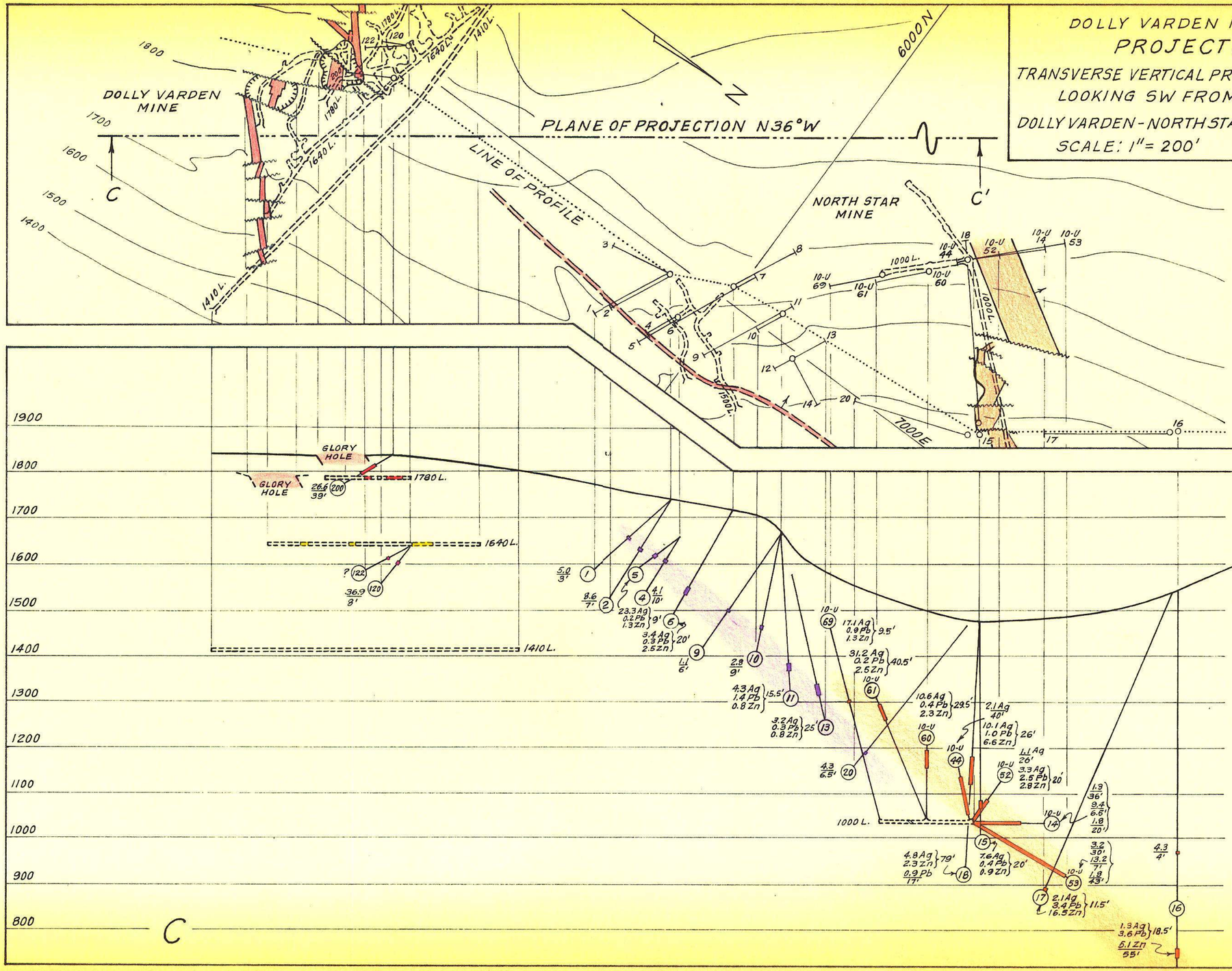
DOLLY VARDEN MINES LTD. (N.P.L.)

PROJECTION C-C'

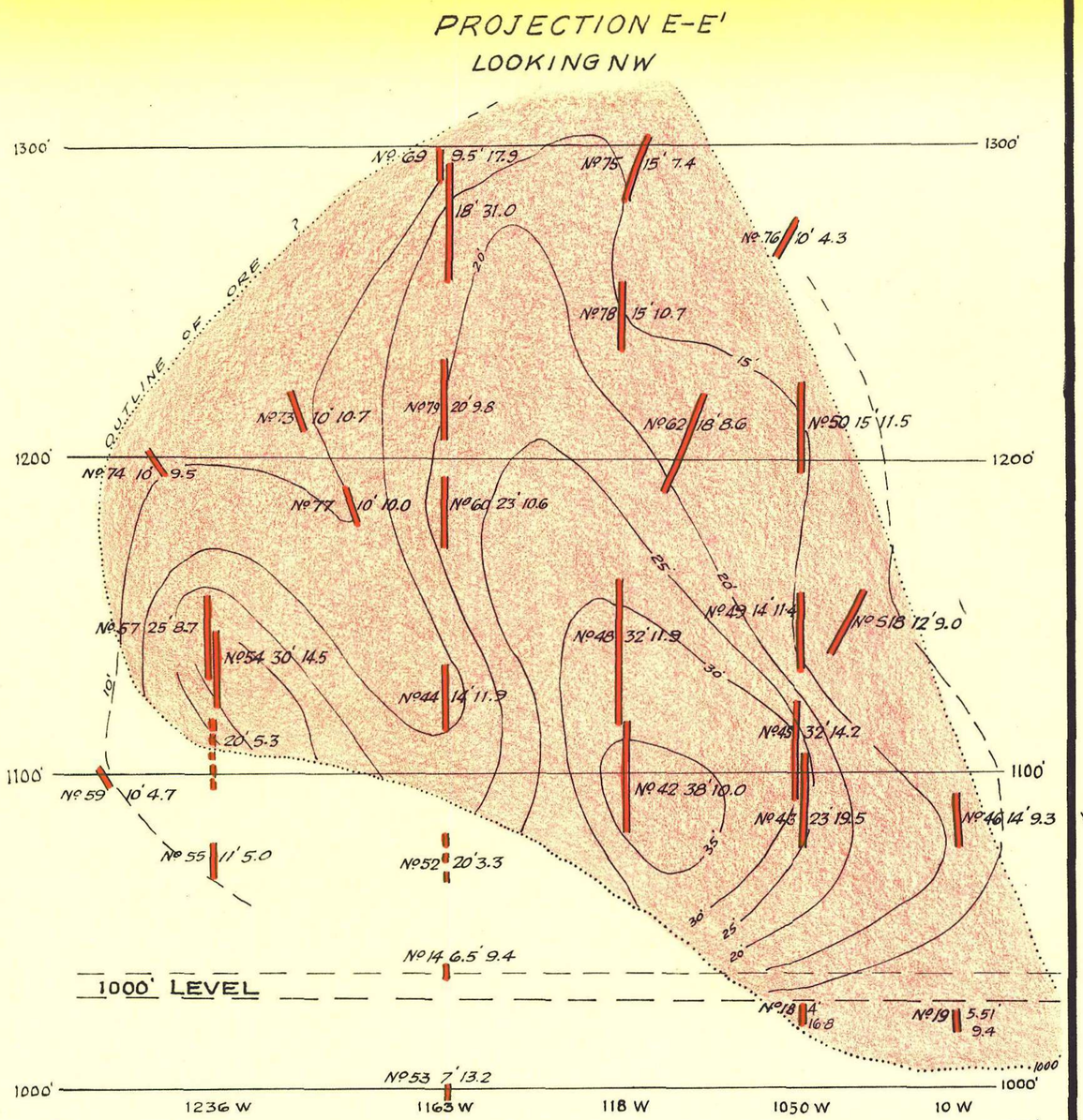
TRANSVERSE VERTICAL PROJECTION BEARING N36°W
LOOKING SW FROM KITSAULT RIVER

DOLLY VARDEN-NORTHSTAR COMPOSITE — F.C.B.

SCALE: 1" = 200' — MARCH, 1966

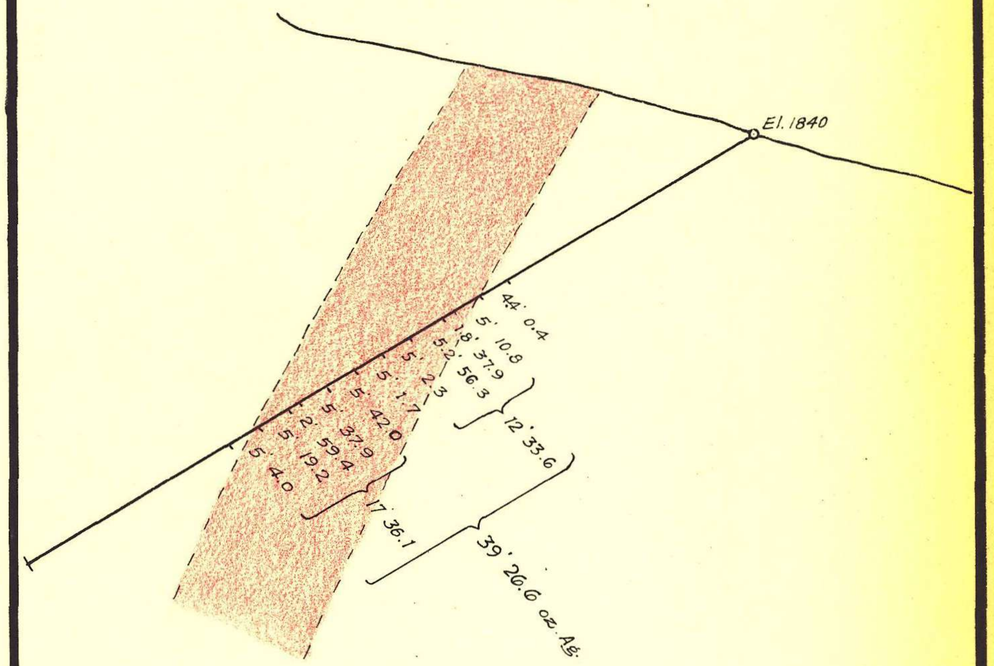


NOTES:
Grades are Ag unless otherwise specified.
Ore widths are uncorrected widths.
Some missing core; grade is the average of the recovered core.
Colors differentiate among ore in different mine levels or in different veins.



DOLLY VARDEN MINES LTD. (N.P.L.)
NORTH STAR ORE BODY
PROJECTION TO VERTICAL SHEWING RELATIONSHIP
OF UNDERGROUND DIAMOND DRILL HOLES
SCALE 0 10 20 30 40 FEET.

DOLLY VARDEN MINES LTD. (N.P.L.)
DOLLY VARDEN VEIN
DIAMOND DRILL HOLE D.V.S. 200
SCALE 0 5 10 15 20 FEET.



inches
0 1
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centimetres

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LE
2-66

inches 0 1
0 1 2 centimetres

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

DOLLY VARDEN MINES LTD. (N.P.L.)
NORTH STAR MINE
D.D. HOLES SECT. 10 W.
LOOKING WEST

SCALE 0 5 10 20 FEET

LE

8.66

DOLLY VARDEN MINES LTD. (N.P.L.)
NORTH STAR MINE
D.D. HOLES SECT. 10+50 W.

SCALE 0 10 20 30 FEET

LG

3-'66

DOLLY VARDEN MINES LTD. (N.P.L.)
NORTH STAR MINE
D.D. HOLES SECT. 11+8 W.

SCALE 0 10 20 30 FEET

10-U-61
51.4 oz
7' T.W.
31 oz.
18' T.W
10-U-60
11.8 oz
18' T.W
1C-U-44
11.9 oz
14' T.W
10-U-52
5.4
5'
9.4
10-U-14
1200'
1100'
1000'
inches
0
1
0
1
2
centimetres
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.
BRITISH COLUMBIA GEOLOGICAL SURVEY
DOLLY VARDEN MINES LTD. (N.P.L.)
NORTH STAR MINE
D.D. HOLES SECT. 11+63 W.
SCALE 0 10 20 30 FEET

FORM T-12

COLLAR:
NORTH 5859
EAST 7023
ELEVATION 1741'
AZIMUTH 115 degrees
DIP - 40 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO North Star # 1 (N-1)
COMMENCED July 19th, 1956
FINISHED Still drilling
PURPOSE OF HOLE Exploration

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO	FROM	TO	WIDTH	AG OZ	% PB	AG X W		
0	43	E-X Casing									
0	46	Broken ground.									
0	20	50% core lost.									
0	9	Greenstone. Badly broken and weathered. Appears to be a fine grained fragmental. Shearing at approx. 65° to core.									
9	10	Black dyke. Chloritized hornblendes and greenish felspar in a black matrix. Some pyrite.									
10	13	Silicified greenstone with fine pyrite.									
13	32	Dyke.									
(13	20	Dyke. Fine grained with a few felspar and hornblendes. Phenocrysts, ovals of calcite at contact.									
Detail inset (20	23⅓	Dyke. Dyke coarsens. Many hornblende and felspar phenocrysts. Some pyrite.									
(23⅓	24⅓	Dyke. Felspar phenocrysts only.									
(24⅓	25½	Dyke. Coarse grained. Felspar & hornblende. Porphy.									
(25½	26	Dyke. Fine grained and badly broken.									
(26	29	Dyke. Coarse dyke felspar and hornblende phenocrysts.									
(29	32	Dyke. Fine grained mostly hornblende phenocrysts.									

FORM T-12

COLLAR:
NORTH 5859
EAST 7023
ELEVATION 1741
AZIMUTH 115 degrees
DIP - 40 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO North Star # 1 (N-1)
COMMENCED July 19th, 1956
FINISHED Still drilling
PURPOSE OF HOLE Exploration

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% PB	AG X W		
32	46	Green fragmental. Fine grained - dark green elongated particles -. Aligned at 50° to core - in a light green groundmass. Calcite stringers cut core at all angles. Pyrite at 39. 3' lost core, between 32 - 38.									
46		2" of black dyke with numerous felspar laths.									
46	59	Green fragmental same as above (32 - 46). But shows faint outlines of large rock fragments.									
59	62	Silicified greenstone with much pyrite.									
62	74	Green fragmental as above (32 - 46). Brecciated 62-64. 67 - 68, 71 - 74 and cemented with carbonates. Broken ground 65, 66, 67, Limonite 66 and 67.									
74	83	Quartz - Carbonate vein matter with pyrite, cementing brecciated, green fragmentals. Broken ground 76, 76 - 81.									
83	88	Very dark rock badly broken 3½' core lost. Most of section appears to be a graphitic schist and calcite mixture, rest is dark volcanics with reddish particles.									
88	92	Dark fragmental large green fragments in a dark purplish groundmass. Whole section is shot with calcite stringers.									
92	93½	Light green siliceous rock brecciated and cemented with black material. 6" Quartz carbonate vein at 92.5 - 93.									

FORM T-12

COLLAR:
NORTH 5859
EAST 7023
ELEVATION 1741
AZIMUTH 115 degrees
DIP - 40 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO North Star #1 (N-1)
COMMENCED July 19th, 1956
FINISHED Still drilling
PURPOSE OF HOLE Exploration

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	~~xxxx~~ Au	AG X W		
92	93⅓	Light green siliceous rock brecciated and cemented with black material. 6" Quartz carbonate vein at 92.5 - 93.									
93.5	113.7	Coarse and fragmental (agglomerated) green fragments in a dark matrix. Considerable variation in grain size within the various fragments. Some are plagioclase porphyries. Broken ground 94, 96, 98 - 99, 103 - 107, 109, 110, 111 - 113.7.									
113.7	115.5	Silicified greenstone with pyrite, some jasper and altered felspars.									
115.5	124⅓	Same as from 93.5 - 113.7 silicified Gs. 117⅓ - 118. Broken ground 115.5 - 117.5, 123 - 124.									
124⅓	128⅓	Dark fragmental - with some green fragments containing felspars. Much pyrite - badly broken 123 - 126.	40801	73.6 81.2	76 83.	2.4 4.2	0.30	Tr.			
128⅓	129	Quartz vein - with pyrite and greenstone fragments.	802	107 113.6	107.9 118.1	5.4' 3.1'	0.140	Tr.			
129	131⅓	Fine grained dark rock with plagioclase laths and large felspar phenocrysts mud seam in broken ground at 131.									
131⅓	134.7	Partially silicified rock shot with carbonates, quartz and pyrite.	40813	131⅓	134.7	3.2'	4.98	Tr.			3'. 5.0 Ag
	131.7	- 134.1 Sphalerite, galena, chalcopyrite - tetrahedrite on quartz - pyrite vein - mixed with greenstone.									

FORM T-12

COLLAR.
NORTH 5859
EAST 7023
ELEVATION 1741
AZIMUTH 115 degrees
DIP - 40 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO North Star # 1
COMMENCED July 19th, 1956
FINISHED July 27th, 1956
PURPOSE OF HOLE Exploration

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ	~~XXXX~~ Au	AG X W Cu.		
134.2	136.8	Light coloured greenstone with small felspars and occasional pyrite - broken throughout.									
136.8	138	Dyke-fine grained felspar and carbonate phenocrysts, some fine pyrite.									
138	145.5	Light greenstone, Slightly bleached and with some fine pyrite. 2" dyke at 138.5									
145.5	147.3	Dyke - fine grained equigranular felspar and hornblende. Badly broken and oxidized at contacts.									
147.3	153	Quartz-pyrite vein sphalerite 152-No other sulphides seen/Badly broken and oxidized 147.3=152.	40814	147.3	153	5.7'	1.04	Tr.			
153.	153.3	Greenstone - Pebbly ground (may be cave).									
153.3	169.	Silicified greenstone. Disseminated pyrite and veinlets of pyrite throughout. Quartz stringers at 153.3 with chalcopyrite 154.5, 162, 168. Carbonate-pyrite veinlets at 158,166,160. Broken ground 169-161, 168.									
169.	174.	Greenstone-similar to 153.3-169 except less silicified, light green chloritized fragments in a lighter slightly greenish matrix. Particles rudely aligned at 50° to core. Fine pyrite throughout. Broken ground 174.									
174	178.	Greenstone-same as 168 - 174 but much darker. Contains fine disseminated pyrite and pyrite stringers.									

FORM T-12

COLLAR:
NORTH 5859
EAST 7023
ELEVATION 1741
AZIMUTH 115 degrees
DIP - 40 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO North Star # 1
COMMENCED July 19th, 1956
FINISHED July 27th, 1956
PURPOSE OF HOLE Exploration

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO	FROM	TO	WIDTH	AG OZ	%PB Au	AG X W Cu.		
178.	180.	Silicified greenstone - with much pyrite some quartz and carbonate.									
180.	183.	Greenstone. Fine grained, dark contains chloritized fragments and ghosts of felspars. May contain calcite fragments. Occasional pyrite crystal present. Broken ground 183.	40810	153.3	158.		0.30	Tr.			
			40811	158	163		0.30	Tr.			
			40812	163	169		0.22	Tr.	0.10		
183.	186½	Greenstone with felspar fragments with abundant fine pyrite. Occasional carbonate - pyrite veinlets containing large grains of chalcopyrite.									
186½	187½	Quartz pyrite vein - broken and partly oxidized.									
187½	190.	Brecciated greenstone cemented with quartz and pyrite. Broken ground 188.									
190.	207.	Greenstone - fine grained contains chloritized particles and occasional felspar fragments. Brecciated and cemented with quartz and pyrite 199½ - 200½. Minor quartz-carbonate-pyrite stringers throughout. Broken ground 195 - 198, 202 - 203½, 206. 2" Quartz Jasper-Pyrite veinlet at 197½.									
207	216.	Greenstone - chloritized particles and felspar fragments in equal amounts. Some parts slightly purple. Quartz-Pyrite-Carbonate veins 209½ -210, 211½ - 212. Chalcopyrite 212. Broken ground 215½-216½.									
216.	221.	Greenstone- slightly silicified some what purplish. Some disseminated pyrite. Pyrite and carbonate veinlets throughout.									

FORM T-12

COLLAR:
NORTH 5859
EAST 7023
ELEVATION 1741
AZIMUTH 115 degrees
DIP - 40 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO North Star # 1
COMMENCED July 19th, 1956
FINISHED July 27th, 1956
PURPOSE OF HOLE Exploration

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO	FROM	TO	WIDTH	AG OZ	% Pb	AG X W		
221.	224.	Green and purple rock. Chlorite and felspar fragments abundant. Ground badly broken.									
224.	235.	Greenstone - fine grained, dark. Quartz-Carbonate-Pyrite vein 225½ - 226, 228½ - 229, 229½ - 231, 232½ - 233. Numerous Qtz.-Carb. stringers throughout. Broken ground 224, 225½, 230 - 234.									
235.	245.	Green and purple fragmental occasional carbonate-pyrite veinlet.									
		END OF HOLE.									

FORM T-12

COLLAR:

NORTH 5859
EAST 7023
ELEVATION 1741
AZIMUTH 115 degrees
DIP - 55 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED

(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO N.S. # 2 (North Star)
COMMENCED July 27th, 1956
FINISHED August 6th, 1956
PURPOSE OF HOLE Exploration

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	%Pb	AG X W		
0	8	Dyke. Badly weathered and broken, 50% core recovery. Contains phenocrysts of felspar. A Chloritized mafic , and some fine pyrite.									
8	12	Greenstone - light coloured; large rock fragments visible. Dark particles present but no felspars. 1' core missing. 8' - 10'.									
12	13	Dyke - with felspars and chloritized hornblende.									
13	19	Greenstone. In part silicified; shot with chlorite; some large pyrite crystals & very broken 13 - 14, 16 - 17, and oxidized.									
19	44	Dyke. 19 - 20. Dense chilled ground mass. 20 - 23. Fine crystal ground mass. 23 - 26. Dense chilled ground mass. 26 - 39½. 39½- 41. Dense chilled ground mass. 41 - 42½. 42½-44. Dense chilled contact chloritized hornblend and felspars throughout. Shearings 22', 28'.									
44	58	Greenstone. Light coloured with dark particles. Very broken 44 - 45, 50 - 54, 56 - 58.									
58.	60.	Greenstone Light coloured, chloritized, occasional large fragments. Calcite stringers numerous. Broken ground 53-54, 55.7-58.5, 59.5-60.									
60.	78.	Greenstone. Darker than above with many large dark green fragments. Somewhat chloritized throughout especially so 68, 70 and between 72 - 73. Rock purplish 73-78. Numerous calcite veinlets some	MORE TO FOLLOW								

FORM T-12

COLLAR:
NORTH 5859
EAST 7023
ELEVATION 1741
AZIMUTH 115 degrees
DIP 55 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. North Star # 2
COMMENCED July 27th, 1956
FINISHED August 6th, 1956
PURPOSE OF HOLE Exploration

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	%Pb	AG X W		
60	78(Contd).	2" - 3" wide, some fine pyrite throughout; large pyrite crystals 65 - 67, 74 - 75. Broken ground 72, 76½ - 78.									
78.	83½	Brecciated greenstone cemented with calcite and quartz. Light green 78 - 81½. Very dark (almost black) 81½, 83½ with fragments of light green dark rock included in the black rock - May be contact between greenstone and dark coloured volcanics. Both rock types are strongly brecciated and cemented with quartz and calcite, containing some pyrite crystals.									
83½	88½	Very broken ground, strongly oxidized. Appears to be dyke.									
88.5	130.	White fluidal feld. phenos. In a black matrix - locally fragments of green lava - some Qtz.carb. stringers - banding 50° to core.	40836 40837 40838	132 140 145	139.2 145. 150	7.2' 5.0' 5.0'	8.56 .56 .44				7'- 8.6 Ag
130.	132.	Lamp. dyke - dark grey minute white & black flecks.	40839	150	155	5.0'	.46				
132.	139.2	Quartz vein - well mineralized with pyrite, spalerite - some Pbs and ruby silver at 136' & 139' - contact at 70° to core.	40840 40841	155 160	160 165	5.0' 5.0'	.22 .20				
139.2	140.	Light grey lamp. - Chilled throughout.									
140.	143.5	Silicified pyritized volcanics - some narrow zones of Qtz.									
143.5	144.5	Lamp. - light grey - contact 60° to core.									

FORM T-12

COLLAR:
NORTH 5859
EAST 7023
ELEVATION 1741
AZIMUTH 115 degrees
DIP - 55 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO North Star # 2
COMMENCED July 27th, 1956.
FINISHED
PURPOSE OF HOLE Exploration

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ.	% PB	AG X W		
144.5	147.8	Silicified & pyritized volcanics - some narrow quartz stringers.									
147.8	148.7	Lamp. - light grey - chilled.									
148.7	164.5	Silicified & pyritized volcanics - degree of alteration decreased from above so that matrix now locally light green with dark green phenos.									
164.5	165.5	Lamp - light grey - chilled margin - white specks in interior.									
165.5	173	Slightly silicified volcanics - some pyrite and Qtz- carb. stringers.									
173.	203.	Greenstone. Dark green fragments dominant, some felspar fragments occur. Numerous pyrite and carbonate veinlets throughout. Broken ground 201 - 203.									
203.	208.	Dark greenstone, with dark green and some white fragments.									
208.	245.5	Greenstone with dark green fragments and some white ones. Broken ground, strongly oxidized 221 - 226.									
245.5	259.	Greenstone with white fragments and dark fragments both very small. Numerous narrow stringers of quartz-carb. & pyrite. Broken ground 247, 250-257½, 259.									

FORM T-12

COLLAR:
NORTH 5859
EAST 7023
ELEVATION 1741
AZIMUTH 115 degrees
DIP - 55 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. N-2
COMMENCED July 27th, 1956
FINISHED August 5th, 1956
PURPOSE OF HOLE Exploration
North Star

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG. X W		
259.	266½	Purple rocks. Green fragments in a purplish ground mass. Rude banding of reddish particles at 75° to core. Broken ground 261 - 263½.									
		END OF HOLE									

FORM T-12

COLLAR:-
NORTH 5859
EAST 7023
ELEVATION 1741
AZIMUTH 171 degrees
DIP -55 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO North Star # 3
COMMENCED August 7th. 1956
FINISHED Still drilling.
PURPOSE OF HOLE Exploration.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% Pb	AG X W		
0	5	Greenstone - Probably talus.									
5	13	Dyke - Broken throughout. Mud seam at 13'.									
13	19	Greenstone									
	13	16 Very light olive green, probably epidotized and/or chloritized.									
	16	19 Alternating light and dark - ground broken throughout. 2' core lost.									
19	22½	Dyke. Very dark and fine grained with phenocrysts of plagioclase and chloritized hornblende. One foor of bleached and brecciated greenstone with dyke cement.(21-22). 2' broken ground at dyke contacts.									
22½	27½	Purple rock with large mashed up green fragments. Some carbonate veinlets with pyrite. Broken ground 25.5 - 27.5. Core lost 2.2'---19 - 24½ 0.5 ---24½- 27.5									
27.5	32	Dyke. As above. 0.7' of greenstone at 39.5.									
32	39	Breccia. Purple and green fragments in a chloritic cement. Crystals of pyrite throughout. Some quartz. Much quartz 35-37. 1.0' Core missing 29-33. Broken ground 33,34,38 - 39.									
39	50	Dyke. As above. Broken ground at contacts. Lost core 2'. 40 - 45. 3' 45 - 50.									

FORM T-12

COLLAR:
NORTH 5859
EAST 7023
ELEVATION 1741
AZIMUTH 171 degrees
DIP -55 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. North Star # 3
COMMENCED August 7th, 1956.
FINISHED Still drilling
PURPOSE OF HOLE Exploration

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
50	60	Greenstone. - with many veinlets of chlorite. 0.5' dyke 54. Lost core 2.5' --- 50 - 54 1.0 --- 54 - 60									
60	73½	Dyke. As above. Greenstone 62 - 63. Broken ground 64 - 73½. Core missing 4' --- 60 - 73½.									
73½	90	Dyke. Core missing 73 - 82.									
90	101	Greenstone. Brecciated and cemented with dyke.	40875	101	107	6.0'	0.02				
101	107	Breccia. Quartz and calcite cementing sheared and chloritized.greenstone. Some Pyrite.	40876 40877	190 193½	193½ 197	3.5' 3.5'	0.62 0.26				
107	129	Greenstone. Shot with calcite and quartz stringers. Many large chrystals of pyrite throughout. Much quartz vein matter 108½ - 109, 117 - 118. Very broken 127 - 128.	40878	201	206.3	5.3'	0.62				
129	145.5	Quartz - calcite cementing brecciated Greenstone. Core missing 7' 132 - 140.5. Broken ground 132 - 140.									
145.5	178.	Dyke. 145.5 - 153.5 dark fine grained massive with large white carbonate phenocrysts. 153 - 163 very broken ground. Dyke has been sheared and cemented with carbonate. 163 - 178 fine grained massive dyke. Sheared and cemented with calcite 172-173½.									
178.	190.	Fragments of greenstone in a black matrix. In places matrix looks like dyke. 4' core missing 180 - 190. Very broken 189 - 190.									

FORM T-12

COLLAR:-
NORTH 5859
EAST 7023
ELEVATION 1741
AZIMUTH 171 degrees
DIP - 55 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. North Star # 3
COMMENCED August 7th, 1956
FINISHED August 10th, 1956
PURPOSE OF HOLE Exploration

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ	% PB	AG Y W		
190.	197.	Silicified greenstone brecciated and cemented with quartz, pyrite and carbonates. Many Augens of quartz pyrite and calcite - especially 194 - 196.									
197.	201.	Dyke.									
201.	206.3	Silicified greenstone shot with pyrite veinlets. Some patches of quartz vein.									
206.3	211.3	Dyke.									
211.3	221.	Greenstone with small black particles and the occasional white one.									
221.	231½	Greenstone - with considerable white fragments slightly purplish 221- 222, 223 - 224, 227½ - 231. Hematite particles 223'. 6" Dyke. 224.									
231½	236½	Green and Purple - grades back and forth between greenstone and purple.									
236½	245.	Greenstone slightly bleached 242 - 244. Purplish 240 - 242½. Occasional calcite veinlet badly broken 244 - 245.									
		END OF HOLE									

FORM T-12

COLLAR:
NORTH 5928
EAST 7088
ELEVATION 1657
AZIMUTH 115 degrees
DIP -55 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO N.S. 4 (North Star).
COMMENCED August 13th, 1956.
FINISHED August 17th, 1956.
PURPOSE OF HOLE Exploration

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% PB	~~XXXXX~~ Zn.		
0.	9'	Grey porphyritic lava with green volcanic inclusions.	40707	59	64'	5'	4.52	.51	2.1))		10' - 4.1 Ag
9.	13'	Dark grey lamprophyre - oval calcite specks.	08	64	69'	5'	3.58	.17	1.2)		
13.	59'	Grey porphyritic lava with green streaks with inclusions - locally cuhedral feldspar shows green-stick fractures.	09	69	74'	5'	0.52	.24	1.0		
			40710	74	79'	5'	3.22	.12	.57		
		Feldspar at times drawn out to augens.	11	79	84'	5'	0.56	.13	.42		
59.	68'	Quartz vein, mixed with much pyrite, some galena	12	84	89'	5'	0.22	.15	.48		
68.	69'	Lamprophyre dike - dark grey fragments.	13	89	94'	5'	0.26	.26	.52		
69.	81.5'	Vein - well mineralized with pyrite - some galena	40714	104	105'	1'	0.48				
81.5	90.5'	Green volcanics - silicified and sericitized, pyritized in part.									
90.5	92'	Quartz vein - well mixed with pyrite.									
92	94'	Green volcanics - slightly sericitized.									
94	100.5'	Lamprophyre dike - dark grey, some calcite.									
100.5	104'	Green volcanics.									
104	104.6	Quartz vein with pyrite.									
104.6	106'	Green volcanics.									
106	106.5'	Fine grained lamprophyre.									
106.5	114.5'	Green volcanics - some narrow quartz carbonate stringers.									

MORE TO FOLLOW

FORM T-12

COLLAR:
NORTH 5928
EAST 7088
ELEVATION 1657
AZIMUTH 115 degrees
DIP -55 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO N.S. 4 (North Star).
COMMENCED August 13th, 1956.
FINISHED August 17th, 1956.
PURPOSE OF HOLE Exploration

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% PB	AG X W		
114.5	115'	Chilled lamprophyre.									
115.	115.5'	Chloritized green volcanics.									
115.5	115.8'	Lamprophyre.									
115.8	123'	Green volcanics - some fine pyrite.									
123.	143'	Greenstone with red flecks, many feldspar crystals - frequently with hematite deposits.									
		END OF HOLE.									

FORM T-12

COLLAR:
NORTH 5928
EAST 7088
ELEVATION 1657
AZIMUTH 115 degrees
DIP -35 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO N.S.-5 (North Star)
COMMENCED August 18th, 1956.
FINISHED August 22nd, 1956.
PURPOSE OF HOLE Exploration

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ	Cu%	Pb	Zn	
0		Casing.									
0	65	Grey volcanics with feldspar phenocrysts light									
		green inclusions - rock becomes bleached near vein and rock assumes a light green colour	40736	62	65	3.0'	1.14		.24	.91)	(23.3Ag
65	71	Quartz - barite vein - well mineralized with py-								)	(0.2 Pb
		rite - some Pbs and specks of argentite and ruby silver.	40737	65	71	6.0'	34.32		.26	1.4)	9' (1.3Zn
71	74	Lamprophyre									
74	76	Silicified volcanics - some quartz and pyrite									
76	78	Lamprophyre.									
78	96	Vein material in highly silicified volcanics -									
		well min. with pyrite some epy-pbs and speck of argentite at 83'.	40738	78	83	5.0'	0.56	Tr.	.04	.62	
96	112	Mostly grey rock with streaks of purple and green									
		in places.	40739	83	88	5.0'	1.04	0.37	.19	.72	
		Numerous veinlets of quartz and massive pyrite	40740	88	93	5.0'	0.98	0.40	.21	.67	
		and some chalcopyrite - small dyke 107.9 - 108.3.	40741	93	96	3.0'	1.10	0.22	.17	.67	
		END OF HOLE.									

FORM T-12

COLLAR:
NORTH 5995
EAST 6956
ELEVATION 1710
AZIMUTH 115 Degrees
DIP -52 Degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO N.S. 6
COMMENCED August 26th, 1956
FINISHED September 1st, 1956
PURPOSE OF HOLE Exploration.

NORTH STAR

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ	% PB	AG X W		
0.	26.	Green and purple volcanics ground badly broken - 24 feet core lost.									
26.	27.	Pyritized and silicified greenstone.									
27.	33.5	Dyke									
		26 - 30 1½' lost									
		30 - 32 ½" lost.									
33.5	36.5	Breccia zone. Greenstone brecciated and cemented by qtz. & carb.									
36.5	52.8	Fine grained blue-black rock brecciated here and there and cemented with quartz and carbonate.									
52.8	58.	Dyke. Medium grained. Slightly chilled at contacts with black rock. Amphiboles in white ground mass at 58'.									
58.	60.	Black fine grained rock. Badly broken 58 - 63.									
60.	65.	Dyke. Broken ground at contact..									
65.	87.	Light grey breccia grades into dark grey to black rock at 86.									
87.	100.	Dyke - medium grained. Some coarse amphiboles in white patches within dyke.									
100.	103.	Dyke.									

(MORE TO FOLLOW)

FORM T-12

COLLAR:
NORTH 5995
EAST 6956
ELEVATION 1710
AZIMUTH 115 Degrees
DIP -52 Degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO N.S. 6
COMMENCED August 26th, 1956
FINISHED September 1st, 1956.
PURPOSE OF HOLE Exploration

NORTH STAR

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO	FROM	TO	WIDTH	AG OZ	% Pb Pb.	AG X W Zn.		
103.	146.	Dark Grey to black rocks containing many green fragments. In places contains pinkish zones. And some very light almost aplite zones.									
146.	160.	Dyke - 5 feet core lost 146-150									
160.	185.	Grey volcanics cementing fragments of pale green porphyritic volcanics.									
185.	191.	Volcanics.									
191.	204.	Grey volcanics with many light green fragments. Some pale green bleached material with pyrite that has replaced the fragments from 197-209.									
204.	208.	Vein matter some quartz and some highly silicified volcanics.									
208.	209.	Dyke.									
209.	216.	Silicified carbonitized and pyritized. Some quartz, ZnS and pyrite.									
216.	220	Lamp dyke									
220	230.	Vein material and silicified volcanics pyrite ZnS and PbS, disseminated 8 inch lamp at 228'.	40755	204	207	3.0'	4.06	0.41	1.1	)	3.4 Ag
			40756	209	216	7.0'	0.52	0.17	5.1	)20'	0.3 Pb. 2.5 Zn.
230.	232.5	Lamp dyke.	40757	220	230	10.0	5.12	0.40	1.2	)	
232.5	236.	Siliceous volcanics with some quartz pyrite ZnS throughout.	40758	232.5	236.	3.5	0.56	0.19	0.36		

(MORE TO FOLLOW)

FORM T-12

COLLAR:
NORTH 5995
EAST 6956
ELEVATION 1710
AZIMUTH 115 Degrees
DIP -52 Degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO N.S. 6
COMMENCED August 26th, 1956.
FINISHED September 1st, 1956.
PURPOSE OF HOLE Exploration.

NORTH STAR

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% PB Pb.	AG X W Zn		
236.	237.	Dyke.									
237.	240.8	Lamp dyke with chilled contact.									
240.8	241.2	Silicified pyritized, some qtz.									
241.2	247.6	Lamp dyke. Lost core 2'.									
247.6	248.1	Qtz. calcite stringers.									
248.1	252.	Pyritized and silicified. Lost core 3'.									
252.	255.6	Lamp dyke. Lost core 1½".									
255.6	257.	Broken contact silicified greenstone.									
257.	261.2	Broken contact lamp dyke (257.8 - 259.5 - very coarse or dioritic.									
261.2	264.	Silicified greenstone to little py.									
264.	265.3	Lamp dyke chilled contact.									
265.3	267.3	Silicified greenstone with little py.									
267.3	270.	(267.3 - 267.4) qtz. barite, jasper & py vein; dyke lost core 1½'.									
270.	274.	Silicified greenstone with two, two inch veins of calcite and qtz. plus pyrite.									
		(MORE TO FOLLOW)									

FORM T-12

COLLAR:
NORTH 5995
EAST 6956
ELEVATION 1710
AZIMUTH 115 degrees
DIP -52 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO N.S. 6
COMMENCED August 26th, 1956
FINISHED September 1st, 1956
PURPOSE OF HOLE Exploration.

NORTH STAR

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
		(continued)	SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% PB	AG X W		
	274.	END OF HOLE									
		Lost core 15'.									
		Core recovery $\frac{259}{274} \times 100 = 94.5\%$									

FORM T-12

DOLLY VARDEN MINES LIMITED

(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

COLLAR:
NORTH 5986
EAST 6967
ELEVATION 1704
AZIMUTH 295 Degrees
DIP -83 Degrees 45'
LEVEL Surface

HOLE NO North Star No. 7
COMMENCED September 3rd, 1956
FINISHED September 10th, 1956
PURPOSE OF HOLE Exploration

NORTH STAR

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% PB	AG X W		
0.	7.	Casing.									
7.	8.4	Lamprophyre dyke. Very fine black grained.									
8.4	10.5	Purple volcanics with green fragments.									Lost Core.
10.5	28.6	Silicified greenstone, 24-25 pyritized.									22-24'-1.0 Feet
28.6	31.	Grey rock with green to black fragments.									26.7-27.3 0.5 "
31.	35.	Lost core.									31.0-35.0 4.0 "
35.	75.	Lamprophyre dyke (43-66 very coarse - gabbroic looking)									
75.	78.	Grey rock with green to black fragments									37 - 43 1.0 "
78.	79.	Lamprophyre dyke @ contacts 75-80° to core.									
79.	105.	Grey rock with green and black fragments. Some narrow qtz., calcite stringers.									
105.	107.5	Lamp dyke contact @ 70° to core and chilled.									105-107.5 1.0 Ft.
107.5	116.5	Grey rock with green and black fragments.									
116.5	117.6	Dyke.									
117.6	139.5	Grey rock with green and black fragments.									122-129 1.0 Ft.
139.5	140.6	Dyke									129-132 2.0 Ft.
140.6	152.	Black rock with grey and green fragments. Some pinkish fragments and narrow sericitic alteration zones.									

(MORE TO FOLLOW)

FORM T-12

COLLAR:
NORTH 5986
EAST 6967
ELEVATION 1704
AZIMUTH 295 Degrees
DIP -83 Degrees 45'
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO North Star No. 7
COMMENCED September 3rd, 1956
FINISHED September 10th, 1956
PURPOSE OF HOLE Exploration

NORTH STAR

FROM	TO	DESCRIPTION (continued)	CORE SAMPLES: SAMPLE NO	FROM	TO	WIDTH	ASSAYS: AG OZ	~~XXX~~	AVERAGES: AG X W ZN.%	Pb.%	REMARKS
152.	153.5	Dyke.									
153.5	159.	Black rock with green and feldspathic fragments.									
159.	166.	Very coarse black rock with narrow qtz. calcite stringers. Feld and green fragments (altered mafics)									
166.	206.	Black rock with green fragments.									
206.	210.5	Silicified greenstone. Very acidic with small amt. of black fragments (Rhyolitic) and altered wall rock material.									
210.5	274.	Grey rock with large green and small black fragments. Pinkish few feld? Also some Plagioclase. 270-274 becoming silicified and slightly pyritized.									
274.	292.	Light greyish green rock with large dark green fragments. Entirely impregnated with small green fragments. Gradational to a non brecciated greenstone with fragments (small). Minor pyritization and silicification zones. 278-279 qtz., calcite, and iron carb. stringers.									
292.	297.	Dark purple volcanics, brecciated with green fragments. Contacts gradational.									
297.	301.2	Light green silicified rock with green small fragments.	40768	316.6	321.	4.6	0.88	Cu. % -	Zn.% 1.9	Pb% 1.20	) (1.0 Ag. 11'(1.5 Pb.) (2.0 Zn.)
301.2	302.8	Dyke chilled contacts @ 50° to core	69	321.	326.	5'	0.98	-	2.3	1.60	)) .

(MORE TO FOLLOW)

FORM T-12

COLLAR:
NORTH 5986
EAST 6967
ELEVATION 1704
AZIMUTH 295 Degrees
DIP -83 Degrees 45'
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO North Star No. 7
COMMENCED September 3rd, 1956
FINISHED September 10th, 1956
PURPOSE OF HOLE Exploration

NORTH STAR

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	Cu.%	Zn. %	Pb.%	
302.8	306.	Highly silicified (Rhyolitic) breccia with finely	70	326	327.2	1.2	1.36	-	1.2	2.10	))
		disseminated Py. min. 301 - 306. Lost 3½' core. Looks like fault gauge @ 305.5 - 306?	71	327.2	332.8	5.6	0.82	0.17	.38	0.10	
			72	344.	349.6	5.6	0.56	0.008	.48	0.10	
306.	326.	Greenstone silicified and pyritized greyish looking									
		310-311. Partially brecciated with silicious filling. 316.6 - 326. Increasing Pb., Zn., Py., min.									
326	327.2	Dark grey rock. Badly broken with fair amount									
		Py., Pb., Zn., Ag. min.									
327.2	332.8	Silicified and pyritized with fair amount Pb., Cu., Ag. min.									
332.8	343.	Greenstone - Silicified and pyritized with few small									
		splashes of calco and odd Zn.S clusters.									
343.	361.	Grey rock silicified and pyritized 351-361. Not									
		much mineralization 344-349.6. Splotches of calco.									
361.	373.	Greenstone silicified and pyritized to 369' 369 - 373"									
		with dark green fragments qtz., carb. stringers. Few spots calco @ 372.5 - 373.									
373.	421.	Greenstone with small light green and feld fragments									
		385.5 - 386 vein qtz. calcite and pyrite, fragmental									
		to 392. Finely fragmental to 421. vein 389-390 qtz									
		calc. and pyrite. 373-393 dark green color, fairly coarse. 393-412 light green and fine grained.									
		412-415" grey fine grained. 415-421 light green fine ground.									
		(MORE TO FOLLOW)									

FORM T-12

COLLAR:
NORTH 5986
EAST 6967
ELEVATION 1704
AZIMUTH 295 Degrees
DIP -83 Degrees 45'
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO North Star No. 7
COMMENCED September 3rd, 1956
FINISHED September 10th, 1956
PURPOSE OF HOLE Exploration

NORTH STAR

FROM	TO	DESCRIPTION (continued)	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ	% PB	AG X W		
421.		END OF HOLE.									
		Lost core 3'									
		Core recovery 418 x 100 = 99.3% / 421									

FORM T-12

COLLAR:
NORTH 5987
EAST 6964
ELEVATION 1704
AZIMUTH 295 degrees
DIP 72 degrees 45'
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO North Star # 8
COMMENCED September 12th, 1956
FINISHED September 24th, 1956
PURPOSE OF HOLE Exploration.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% PB	AG X W % Zn		
0.	17.6	Overburden - No samples.	40788	440.8	442.4	1.4	1.76	.34	.43	)	(1.2 Ag
17.6	24.	Dyke-Coarse or Gabbroic looking to 21 chilled to 24 contact @ 70°.	40789	442.4	444.4	2'	0.84	.29	.62	)	3'(0.3 Pb (0.5 Zn
			40790	444.4	446.	1.6'	0.48	.29	.33		
24.	30.	Grey volcanics with dark grey to black fgmts.Badly broken 24-31, lost 2' core.									
30.	41.	Greenstone-silicified, dark green fgmts.& pyrite mineralization. Lost core 31-36 2'.									
41.	71.	Grey volcanics-with dark grey to black fragments. 41-57.6, 65-66 narrow quartz stringers 1" with some py.min.66-71 light colored silicified greenish grey volc. Lost core 47-50 1', 50-56 1', 66-71 1'.									
71.	89.	Dyke-chilled to 84; green alt. to 86 and narrow qtz stringers. Gradational to Gabbroic @ 89; Broken 78-82.6, 88-89.									
89.	116.8	Grey volcanics with green and black fragments. Becoming plentifull to 116.8 lost core 96-103 2'; 103-110 3'.									
116.8	118.	Dyke- chilled contacts @ 50° to core.									
118.	136.	Grey volcanics-same as above but with many green and black fragments.Increased in size and no.Slight Shearing 135-136 @ 50° to core.									
136.	137.2	Dyke-with small 1/16" Rounded Calcite fragments.									

FORM T-12

COLLAR:
NORTH 5987
EAST 6964
ELEVATION 1704
AZIMUTH 295 degrees
DIP -72degrees 45'
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO North Star No. 8
COMMENCED September 12th, 1956
FINISHED September 24th, 1956
PURPOSE OF HOLE Exploration

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO	FROM	TO	WIDTH	AG. OZ	% PB	AG X W		
137.2	145.	Grey volcanics-with green and grey fragments,Bleached and slight green(chlorite alt.).144-145 highly brecciated.									
145.	161.5	Grey volcanics-145-147 very light grey with distinct contacts @ 50°. Felf, mafic, and altered mafic fgmts. having distinct lineation @ 45°. Brecciated contact 147-160 - very dark grey to black with light grey, black and feld fgmts. with lineation @ 60°. 147-148 many narrow qtz.carb.stringers(no lineation) 160-161.5 some pinkish fragments.									
161.	201.	Grey volcanics with green and black fragments.Also much qtz. carb. fr. filling parallel to core to 171. 169-175 no qtz.carb. stringers but lineation of fragments @ 65°. 189-201 gradational to light grey silicif. volc. to former with black fragments.									
201.	203.6	Dyke with slight chl.alt.and some dissem.py.min.									
203.6	310	Grey volcanics.203.6-205 fine grained with small hematite altered fgmts. 205-241 black or dark grey with large green pink and feld fgmts. 302-310 highly silicified and brecciated. Some py.min.sericitic alt. and fracturing to core.									
310.	319.6	Dyke with small black and rounded calcite fragments. Contact @ 50°.									
319.6	325.6	Grey volcanics with light green and pink fragments.									
325.6	327.6	Dyke - (Same desc. as previous).									
327.6	351.	Grey volcanics with light green and pinkish fragments.									

FORM T-12

COLLAR:
NORTH 5987
EAST 6964
ELEVATION 1704
AZIMUTH 295 degrees
DIP - 72 degrees 45'
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO North Star # 8
COMMENCED September 12th, 1956
FINISHED September 24th, 1956
PURPOSE OF HOLE Exploration

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO	FROM	TO	WIDTH	AG OZ	% PB	AG X W		
351.	371.5	Green volcanics-light green matrix,with large dark green and grey fragments. Lost core 362-369 3'.									
371.5	429.	Dyke-chilled contact gabbroic from 379-413 chilled to 405.6' Contact a 70°; Gabbroic to 408, chilled to 409 with rounded Calcite fgmts; gabbroic to 418, 418-419 calcite replaced by pyrite. @ 423 chilled and apparently intruded by gabbroic dyke mat. Contact @ 60° to core.									
429.	429.8	Grey volc. - silicified and pyritized.									
429.8	440	Dyke - contact @ 60° to core.									
440.	442.4	Grey volcanics-Highly silicified and pyritized.Some sphalerite and chalcopyrite noted.									
442.4	444.4	Vein - pyrite, qtz. calco and wall rock.									
444.4	446.	Grey volc. Silicified and pyritized with zones of qtz. carb.									
446.	458.4	Dyke-light brown color with small dark green fgmts. and some calcite.Ground core around 457 some vein material here.									
458.4	473	Grey volcanics-slightly greenish with hem.alt.of some fgmts. & feld ghosts.									
473.	474.2	Dyke-chilled contact @ 70°.Black dark green & calcite fgmts.									

FORM T-12

COLLAR:
NORTH 5987
EAST 6964
ELEVATION 1704
AZIMUTH 115 degrees
DIP - 72 degrees 45'
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO North Star # 8
COMMENCED September 12th, 1956
FINISHED September 24th, 1956
PURPOSE OF HOLE Exploration

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% PB	AG X W		
474.2	480.	Grey volcanics-(same as immed.above) more hem.alt. Lost 3½' core,									
480.	488.	Greenstone-some feld ghosts 480.2 - 481 py min.with Qtz. carb. zones.									
488.	512.	Green volcanics with small green fgmts. Some hem. alt. very fine gr. and even textured. Lost core 480-490 2' 490-495 1'									
	512.	END OF HOLE.									
		Lost core 21'									
		Core recovery $\frac{491}{572} \times 100 = 95.9\%$									
	512.	Dip Test 69°									

FORM T-12

COLLAR:
NORTH 6107
EAST 6949
ELEVATION 1674
AZIMUTH 115 degrees
DIP -50 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. North Star # 9
COMMENCED September 26th, 1956.
FINISHED September 29th, 1956.
PURPOSE OF HOLE Exploration.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% PB	AG X W % Zn		
0.	5.	Overburden - no samples.	40798	201	207	6'	1.08	.26	.52		6'- 1.1 Ag
5.	6.	Red rock volc. with small green fgmts.									
6.	7.5	Gray volc. with green fgmts.									
7.5	17.5	Green-Silicified volc.with minor pyritization,Black & calcite fgmts.Some narrow calcite stgs. @ 40°.									
17.5	21.2	Grey-almost black volc.with green & calc. fgmts.									
21.2	21.8	Dyke - chilled;with calcite flecks, contacts @ 50°. Lost core 23-29 1'. 29-33 1'.									
21.8	65.	Grey volc.-quite dark with light green,grey and calcite fgmts. Some narrow calcite stgs.with some py. Bleached zones 28.2-29, 31.5-32, 38-39.5 with carb. alt.41-43 light grey silic. volc.with black calcite & green fgmts.									
65.	72.	Dyke-chilled; with small black fgmts. 71-72 parallel contact with grey rock.									
72.	73.	Grey-almost black volc.with many calcite fgmts.									
73.	75.	Dyke-chilled.									
75.	83.5	Black volc.with many light grey & calcite fgmts.80-80.8 light fine grained,even text.with small mafic fgmts. 71-84 lost core 1½'.									
83.5	84.	Dyke - chilled.									

FORM T-12

COLLAR:
NORTH 6107
EAST 6949
ELEVATION 1649
AZIMUTH 115 degrees
DIP - 50 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO North Star # 9
COMMENCED September 26th, 1956
FINISHED September 29th, 1956
PURPOSE OF HOLE Exploration

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% Pb	AG X W		
84.	104.	Grey volc.with calcite fgmts.& narrow stgs. Few black fgmts. 85-86.5 quite brecciated with much calcite & qtz.93.5-104 dark colored with large green fgmts. 101.2-101.5 dioritic. Much peag.large grain size.									
104.	105.	Dyke with calc.and small black fgmts. Some pyrite apparently replacing calcite.									
105.	121.	Grey volc.with green fgmts. 105.5-107 very coarse with much feld.(dioritic).117.5-119 epidote alt. Some carb. alt. and minor pyrite min.									
121.	140.5	Andesite int.-coarse grained. Intrusive looking with many plag.laths.slight lineation @ 40°. 137-140.5 dark green fgmts. Fine gr.aphanitic ground mass.									
140.5	144.2	Grey volc. with green & black fgmts.									
144.2	147.5	Dyke- chilled & intruded by a 4" feld.porphry. distinct contacts @ 40°.									
147.5	160.	Grey volc.with feld.calcite & small green fgmts.									
160.	162.5	Dyke-light grey with small black & calcite fgmts.									
162.5	181.2	Grey volc.& green & grey dark fgmts.Local green (chloritic) & silic. alt. zones.									
181.2	190.	Dyke - chilled contacts @ 45°.									
190.	193.	Black volc.-two 3"calcite py.stgs.with carb.alt.									

FORM T-12

COLLAR:
NORTH 6107
EAST 6949
ELEVATION 1649
AZIMUTH 115 degrees
DIP -50 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO North Star # 9
COMMENCED September 26th, 1956
FINISHED September 29th, 1956.
PURPOSE OF HOLE Exploration

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% Pb	AG X W		
193.	193.7	Dyke - grey colored with dark green & calcite fgmts.									
193.7	195.	Grey with green & calc. fgmts. Few specks of FE & ZN Sulph.									
195.	201.	Grey rock - silicified & pyritized.									
201.	207.	Vein with much qtz.,barite & calcite. Some zones with PbS noted.									
207.	210.2	Grey volc. - silicified & pyritized.									
210.2	226.	Dyke with chilled contacts. Gabbroic 211-225.									
226.	246.	Grey volc.with narrow calcite stgs. to 229. Small green fgmts. 226-227 silic.pyrite. Little calco.& py. noted.									
246.	253.7	Dyke with chilled contacts. Gabbroic middle.									
253.7	254.	Greenstone - silicified.									
254.	255.	Dyke - chilled.									
255.	258.	Greenstone-silicified.Narrow calcite stgs.& minor py. min. Narrow epidote alt. zones.									
258.	259.	Grey volc.Brecc.with much barite & some calco.									
259.	260.5	Dyke - chilled.									
260.5	278	Greenstone-Fine grained with barite calcite stgs.									

FORM T-12

COLLAR:
NORTH 6107
EAST 6949
ELEVATION 1649
AZIMUTH 115 degrees
DIP - 50 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO North Star # 9
COMMENCED September 26th, 1956
FINISHED September 29th, 1956
PURPOSE OF HOLE Exploration

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% PB	AG X W		
278.	300.	Green volc. with calcite & small green fgmts.285-287 epidote alteration. 278-300 fine grained with narrow carb. alt. zones. Lost core 266-270 1', 270-275 1' 275-279 2½', 289-291 2'. 291-300 2'.									
	300	END OF HOLE.									
		Lost core 13'.									
		Core recovery $\frac{287}{300} \times 100 = 95.7\%$									

FORM T-12

COLLAR:
NORTH 6107
EAST 6949
ELEVATION 1674
AZIMUTH ~~115 degrees~~
DIP - 76 degrees
LEVEL Surface.

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO North Star # 10
COMMENCED September 29th, 1956
FINISHED October 6th, 1956
PURPOSE OF HOLE Exploration.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% Pb	AG X W % Zn		
0.	4.5	Overburden (no samples)	40799	217.	221.4	4.4	2.82			)	
4.5	93.	Grey vol.with light green.cal.& some pinkish fgmts.	800	221.4	226.	4.6	2.68	.26	.36	)	9'-2.8Ag
		11-17 bleached lost core 7-11 1', 22-31 2', 25.8-27.8	50501	226.	229.6	3.6	0.38				
		epidote alt.37-42.5 partially silic.with little py.	502	229.6	234.6	5.0	0.24				
		min. Lost core 43-51 2', 55.9-59 highly silic.with	503	234.6	238.	3.4	0.26				
		small light green & cal. fgmts. 77-99 with black	504	238.	240.	2.0	0.32				
		fgmts.									
93.	96.4	Dyke-chilled contacts. Black & cal. fgmts.									
96.4	98.	Grey vol.(dark) with small cal. & black fgmts.									
98.	110.	Greyish green silic. vol. with green fgmts.									
110.	136.4	Grey to black vol.with large green also small black									
		& pinkish fgmts. 134-136.4 silic.& slightly py.coarse									
		feld. & pinkish fgmts.									
136.4	138.	Dyke.									
138.	187.	Grey vol.(dark)with large green,pink & black fgmts.									
		Increasing pink to 165. 165-187 with black fgmts.&									
		narrow cal.stgs. 166-169 dissem. py. min.									
187.	188.	Dyke-black & cal.fgmts.(light green color)contacts									
		@ 60°.									
188.	207.2	Grey vol.with small pink,green & black fgmts.									
207.2	213.6	Black to grey vol.with dark green & slight hem alt.									
		fgmts. minor py. min.									

~~MORE TO FOLLOW~~

FORM T-12

COLLAR:
NORTH 6107
EAST 6949
ELEVATION 1674
AZIMUTH 115 degrees
DIP - 76 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. North Star # 10
COMMENCED September 29th, 1956
FINISHED October 6th, 1956
PURPOSE OF HOLE Exploration

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% PB	AG X W		
213.6	217.	Grey vol. with some py. 215-217 grey vol.(rusty contact) py. & silic. Lost 1' core.									
217.	219.2	Vein-Qtz. bar. cal. with py. & little pb.									
219.2	229.7	Silic.& pyritized grey vol.with some ZnS & PbS.									
229.7	235.6	Vein - some Pb & Zn noted.									
235.6	240.6	Silicified & pyritized grey vol.									
240.6	242.	Dyke-light green & fine grained.Small black fgmts. & little py. min.									
242.	244.8	Greenstone - silicified with little py.									
244.8	245.7	Dyke.									
245.7	251.	Green vol. silic. & py.									
251.	266.5	Green vol.(dark)sometimes black.251-262 quite coarse & in part dioritic looking(much feld.& light green fgmts.)Many narrow qtz.carb.veinlets 1/8" to ½"with py. & little Cu & Pb noted. 262-264 quite dark & graphitic looking(no streak) many cal.veinlets 1/8"									
266.	279.	Dyke chilled.Light grey with large cal.inclusions & small green fgmts.									
	279.	END OF HOLE									
		Lost core 6'. Core recovery $\frac{273}{279} \times 100 =$	97.8%								

FORM T-12

COLLAR:
NORTH 6106
EAST 6948
ELEVATION 1674
AZIMUTH 295 degrees
DIP 86 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO North Star # 11
COMMENCED October 7th, 1956
FINISHED October 18th, 1956
PURPOSE OF HOLE Exploration

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% Pb	~~XXXXX~~ Cu.%	% ZN	
0.	7.	Overburden.	50512	288	292	4'	.78	.24		.36	
7.	103.	Grey vol. with green fgmts. 10-12 py. min. 7-25	513	292	295.5	3.5'	1.66	.22		.48	) (4.3 Ag.
		black, cal., & pink fgmts. Also slight seric. alt.	514	295.5	303.5	8'	6.48	2.4		1.2	)15.5' (1.4 Pb
		Lost core 15-19 1½'. 25.5-26, 27-28 & 28.5-29.Light	515	303.5	307.5	4'	2.30	.26	0.15	.38	) (0.8 Zn
		green alt. 37-39 fine gr. gray groundmass with black									
		& green fgmts. 39-45.8 -- Grey with green, cal. &									
		some feld.fgmts. 45.8-46.8 light green brecc. vol.									
		with small cal. & light green fgmts. 46.8-87 black,									
		large green & small cal. fgmts. Also slight serc.									
		alt. 55-87 black groundmass with narrow qtz. carb.									
		stgs. 87-89 light grey dioritic looking with mafic									
		& cal. fgmts. 89-103 black matrix. with small cal.									
		& large grey & green fgmts.									
103.	104.	Dyke black with cal. & black fgmts.									
104.	122.	104-106 black vol.with large green & small cal.fgmts.									
		106-122 grey vol. with large grey & green, small									
		pink, black & cal. fgmts. 115-120 slightly silicified.									
122	123.	Dyke with black to slightly hem alt. fgmts. Chilled									
		contact @ 45° to core.									
123.	123.5	Grey vol. breccia.									
123.5	126.	Black graphitic altered sediments & argillite with									
		many narrow 1/32 - 1/8" calc. veinlets.									
126.	133.	Grey vol.(dark) with light grey, cal. & black graphitic									
		fgmts. & slips.									

FORM T-12

COLLAR:
NORTH 6106
EAST 6948
ELEVATION 1674
AZIMUTH 295 degrees
DIP 86 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO North Star # 11
COMMENCED October 7th, 1956
FINISHED October 18th, 1956
PURPOSE OF HOLE Exploration

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO	FROM	TO	WIDTH	AG OZ	% PB	AG X W		
133.	137.	Light green vol. brecc.with green & slightly altered cal. fgmts. 136-137 apple green.									
137.	145.	Intrusive light green fine gr.groundmass with many chl. alt. & unaltered mafics. 142-142.5 gabbroic contacts @ 45°.									
145.	221.	Intrusive gabbro.									
221.	225.	Grey vol.with green & cal.fgmts. contact @ 221 is 85°.									
225.	264.	Intrusive gabbro. contact @ 70°.									
264.	267.6	Greenish grey brecc.col.with small & large, light & dark green fgmts.Dissem.py.min.& slight silicification.									
267.6	288.	Gabbro.int.with coarse to fine variations & small cal. fgmts.									
288.	296.	Grey vol.-brecciated contact @ 50° with pyritization & silic.									
296.	303.	Vein-brecc. cal., bar. qtz.approx. 2% pb.Irreg.Py. & marcasite concentrations. Some ZnS & $CuFeS_2$ noted.									
303.	312.	Green vol.silicified & pyritized with some calco noted in 2-3" cal.bar.stgs.Slight hem alt.of some fgmts.									
312.	353.	Greenstone-312-314 highly brecc.with hem alt.(Slight)									

MORE TO FOLLOW

FORM T-12

COLLAR:
NORTH 6106
EAST 6948
ELEVATION 1674
AZIMUTH 295 degrees
DIP 86 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO North Star # 11
COMMENCED October 7th, 1956
FINISHED October 18th, 1956
PURPOSE OF HOLE Exploration

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% Pb	AG X W		
312.	353(Cont'd):	& light & dark green fgmts. Silic.light green matrix. 314-317 fine gr. green vol. 317-326 same as 312-314 with no hem. alt. but slight seric. alt. & slight py. min. & few small calco. splotches in narrow brecc. stgs. 326-353 many narrow 2-3" cal. bar. stgs. with py. Cu & some pb. few minute stgs. showing ruby stain. Slightly seric.alt.326-345. 343-353 feld.ghosts & slight hem alt.									
353.		END OF HOLE.									
		very little core lost									

FORM T-12

COLLAR:
NORTH 6183
EAST 7014
ELEVATION 1574
AZIMUTH 115 degrees
DIP -78 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO N. S. #12
COMMENCED June 14th, 1957.
FINISHED June 16th, 1957.
PURPOSE OF HOLE Explore North Star Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO	FROM	TO	WIDTH	AG OZ	% PB	AG X W % Zn		
0.	8.	Casing - bedrock at 8'.									
8.	134.	Grey & green breccia threaded with narrow quartz carbonate stringers - bronze coloured soft mica (?) - hexagonal cross section.									
134.	135.	Silicified breccia and quartz vein - mineralized with pyrite.	50520	134	135	1.0	Tr.				
135.	161.	Purple & green breccia occasional zones of chloritization & minor epidote - seams of pyrite occasionally - threads of quartz-carb. - 3" quartz breccia vein at 160' - oxidized and broken at 161'.									
161.	168.	Vein - quartz & laths of barite - much pyrite plus galena & honey sphalerite - some dark sphalerite in the pyrite - some quartz fragments in the pyrite - looks like F.W. breccia at Torbrit in places.	50521 50522 50523	161 166 171	166 171 175	5.0 5.0 4.0	.52 .44 .12	.19 .36 .22	1.8 .48 .33) 14'		(0.4Ag (0.3Pb (0.9Zn
168.	175.	Silicified green breccia plus quartz vein breccia - chalcopyrite, pyrite & some honey sphalerite.									
175.	193.	Black fine grained clastic (?) - some graphitic slip planes - massive for most part - occasional thin quartz carb. stringers - broken & oxidized 189.5'									
193.	198.5	Light grey - green lamprophyre - calcite amygdules - dark green patches of partly oxidized biotite (?).									

MORE TO FOLLOW.

FORM T-12

COLLAR:
NORTH 6183
EAST 7014
ELEVATION 1574
AZIMUTH 115 degrees
DIP -78 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO N. S. #12
COMMENCED June 14th, 1957.
FINISHED June 16th, 1957.
PURPOSE OF HOLE Explore North Star Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% PB	AG X W		
198.5	200.	Purple & green breccia - dense fine grained.									
		END OF HOLE.									

FORM T-12

COLLAR:
NORTH 6183
EAST 7014
ELEVATION 1574
AZIMUTH 295 degrees
DIP - 76 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO N. S. 13
COMMENCED June 17th, 1957.
FINISHED June 23rd, 1957.
PURPOSE OF HOLE North Star Exploration.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% PB	AG x W % ZN		
0.	6.	Casing - bedrock 4'.									
4.	91.5	Grey breccia - dark green fragments, light grey									
		matrix - 5' lost core 37'. Grey breccia - some light green.									
91.5	92.	Fault - mud.									
92.	105.	Grey breccia - silicified and pyritized at 99'.									
105.	116.	Lamp dyke - grey green with dark phenocryst.									
116.	148.	Grey breccia - some bleached and light green, be-	50524	206	211	5.	.12	.14	.35		
		coming green and chloritic at 148'.	25	211	216	5.	2.28	.30	1.1		
148.	195.	Purple with some green - some epidote alteration	26	241	246	5.	.16	.22	1.10		
		zones threaded with quartz and partly oxidized ankerite.	27	246	251	5.	1.84	.19	.86	15' - 5.1Ag	25' 3.2Ag 0.3Pb 0.8Zn
195.	195.6	Lamp dyke.	28	251	256	5.	1.44	.61	.52		
195.6	202.	Purple breccia - some chlorite alteration threaded	29	256	261	5.	11.92	.24	.33		
		with carbonate stringers.	30	261	266	5.	.82	.30	1.0		
202.	206.5	Green Breccia - apple green with oxidized zones	31	266	271	5.	.44	.19	.14		
206.5	221.	Silicified and pyritized greenstone - some zones	32	271	276	5.	.22	.17	.19		
		of quartz.									
221.	241.	Dyke dark grey - ghost breccia fragments - lost									
		water with 3' core at 227'.									

MORE TO FOLLOW.

FORM T-12

COLLAR:
NORTH 6183
EAST 7014
ELEVATION 1574
AZIMUTH 295 degrees
DIP -76 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO N. S. 13
COMMENCED June 17th, 1957.
FINISHED June 23rd, 1957.
PURPOSE OF HOLE North Star Exploration.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	%Pb	AG X W		
241.	272.	Vein - quartz barite. Much pyrite, some galena with pyrite.									
272.	276.	Vein with green breccia - some pyrite and chalcopyrite.									
276.	325.	Green volcanics - typical foot wall rock - some pink manganese carb. & threads of quartz - carb.									
		END OF HOLE.									

FORM T-12

COLLAR:
NORTH 6182
EAST 7014
ELEVATION 1574
AZIMUTH 23 degrees
DIP -65 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO N. S. 14
COMMENCED June 23rd, 1957.
FINISHED June 25th, 1957.
PURPOSE OF HOLE Exploration of North Star Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO	FROM	TO	WIDTH	AG OZ	% PB	AG x W % Ag		
0.	6.	Casing - bedrock 5'.									
5.	122.	Grey breccia - slightly silicified - some light									
		green zones - some narrow quartz carbonate stringers - lost 5' core at 66' & 122'.									
122.	148.	Green breccia - light green matrix with darker									
		green 1" fragments - many narrow quartz carbonate stringers.									
148.	211.	Purple breccia - with some green fragments - threaded									
		with quartz carbonate & chlorite zones - some oxi-	50537	226	231	5	3.92	.12	.76	) 10'-	) (
		dation at 158 & 165' - looks like foot-wall rock								) 2.4	) (1.2Ag
		in 1150 Raise.	38	231	236	5	0.92	.19	.33	) Ag	) (0.2Pb
											) 25'(0.5Zn
211.	226.	Green breccia - light green matrix with dark green	39	236	241	5	0.52	.09	.76		) (
		fragments - some light grey slightly pyritized	40	241	246	5	0.28	.33	.33		)
		sheared zones at 220-221, 224 & 226.	41	246	251	5	0.24	.26	.09		)
226.	242.	Vein - Quartz & barite - some silicious grey py-									
		ritized rock inclusions - much pyrite with some									
		galena, sphalerite & chalcopyrite.									
242.	255.	Silicified & pyritized green volcanics - some									
		quartz zones, pyrite & chalcopyrite - gradational									
		into typical foot-wall greenstone at 253.									
		END OF HOLE.									

FORM T-12

COLLAR:

NORTH 6610.80
EAST 6907.83
ELEVATION 1467.08
AZIMUTH Vertical
DIP -90 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED

(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. North Star 15
COMMENCED July 18th, 1957.
FINISHED July 24th, 1957.
PURPOSE OF HOLE Exploration

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	%Pb	AG X W		
0.	10.	Casing - bedrock @ 6'.									
6.	122.	Grey breccia - marked lineation with fragments at									
		45° to core - some bleached to light grey & oxi-									
		dized to orange brown - some fine pyrite in narrow									
		quartz stringers - some fragments at 85' are pur-									
		ple and green in light grey-green matrix - contact									
		with the following is gradational the green matrix									
		becoming more prevalent.									
122.	169.	Green breccia - light green matrix with dark green									
		flecks - many purple fragments appear to have been									
		invaded by the later green - some grey fragments.									
169.	216.	Green breccia - post flow breccia cemented by									
		quartz between 185 to 207' - carbonate looks like									
		fault in 802 Drift - the volcanic has kaolinized									
		plagioclase - some purple & green 214-216'.									
216.	242.	Light green breccia with dark green fragments -									
		silicified & pyritized in part.									
242.	252.	Light green breccia with dark green fragments &									
		purple fragments.									
252.	264.	Purple & green breccia - some fine threads of									
		quartz carbonate & flecks of leucoxene.									
264.	274.	Purple breccia - no large fragments - prominent									
		plagioclase some threads of quartz-carbonate.									
		MORE TO FOLLOW.									

FORM T-12

COLLAR:
NORTH 6610.80
EAST 6907.83
ELEVATION 1467.08
AZIMUTH Vertical
DIP - 90 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO North Star 15
COMMENCED July 18th, 1957.
FINISHED July 24th, 1957.
PURPOSE OF HOLE Exploration.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% PB	AG X W		
274.	341.	Purple & green breccia - light green bands appear									
		to be cutting through the foregoing purple breccia -									
		at times the core is composed largely of the pur-									
		ple rock with just narrow cross-cutting zones of									
		light green-seam of pyrite at 339' - broken &									
		oxidized at 340'.									
341.	377.	Green breccia - light green slightly silicified									
		some fine pyrite & quartz carbonate stringers.	50015	377	380	3.0	Tr.	Tr.		.40	
		2.5' section of purple breccia from 359.5 to 362	16	380	385	5.0	6.52	Tr.		.80	)
		continuing with green breccia to 377. Shearing	17	385	390	5.0	5.04	Tr.		1.00	) 20'-
		occurring is @ 45° to the core.									)
377.	380.	Grey brecciated vein matter showing blobs of pyrr-	18	390	395	5.0	5.08	Tr.		1.20	) 3.3Ag.) ~~0.4Pb~~
		hotite @ close intervals along the core length.	19	395	400	5.0	13.60	1.6	0.13	.76	) 0.9 Zn
		Minor chalcopyrite. Galena prominent @ 376.2.	20	400	405	5.0	0.40	Tr.	0.42	Tr.	Tr.
380.	415.	Quartz carbonate barite vein matter; poor coring -	21	405	410	5.0	Tr.	Tr.		Tr.	
		well mineralized with pyrite some sphalerite chal-	22	410	415	5.0	Tr.	Tr.		Tr.	
		copyrite & galena - best galena 395-400' - best									
		chalcopyrite 400-405'.	23	415	420	5.0	Tr.				
415.	455.	Silicified breccia - some fine pyrite & narrow	24	428	433	5.0	Tr.				
		quartz carbonate with sphalerite & galena - lost									
		core 440-449.	56899	420	425	5.0	.34				
455.	457.	Green breccia - prominent plagioclase.	56900	425	428	3.0	Tr.				
457.	461.	Green to grey breccia - 1' core missing.									
		END OF HOLE.									

FORM 1-2

COLLAR:
NORTH 6970.00
EAST 6637.57
ELEVATION 1538.22
AZIMUTH Vertical
DIP -90 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO North Star 16
COMMENCED July 29/57
FINISHED Aug. 18/57
PURPOSE OF HOLE Exploration.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% PB	AG X W		
0.	12.	Casing - Bedrock @ 8'.									
8.	13.	Poor coring fine grained purple breccia - 1' of core missing.									
13.	16.	Possible dyke or large boulder.									
16.	20.	Purple green breccia with several quartz stringers 1' of core missing.									
20.	21.5	Dyke or boulder - contact at 20' to the core.									
21.5	28.7	Purple breccia.									
28.7	50.	6" section of grey basaltic rock and continuing with the purple breccia. Coring poorly @ 31' and from 48 to 50.									
50.	67.	Green breccia, almost porphyritic in appearance with white (calcite)? phenocrysts. Quartz carbonate stringers @ 57.3. Calcite stringers from 66-67. Oxidation prevalent along and at the sides of shearing.									
67.	76.5	Purple breccia with quartz carbonate strong @ 73'. Oxidation continues. Some flecks of jasper and a little pyrite seen.									
76.5	86.5	Pale green breccia with stringers of barite @ almost right angles to the core. Increasingly siliceous from 79.6 on. Oxidation prominent. No mineralization noted although this section has the appearance of being vein.									

MORE TO FOLLOW.

FORM T-12

COLLAR:
NORTH 6970.00
EAST 6637.57
ELEVATION 1538.22
AZIMUTH Vertical
DIP -90 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO North Star 16
COMMENCED July 29/57.
FINISHED Aug. 18/57.
PURPOSE OF HOLE Exploration.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO	FROM	TO	WIDTH	AG OZ	% PB	AG X W		
86.5	99.	Purple breccia; 1" barite stringer @ 99'.									
99.	178.	Purple breccia; uniform size phenocrysts very stable appearing rock. Small calcite vein with slight vugging @ 115. Quartz stringer @ 159.5 showing oxidization.									
178.	181.5	Fine grey breccia.									
181.5	202.5	Purple breccia with dark green fragments. Quartz stringers @ 187 & 199.5.									
202.5	228.	Light green breccia with darker green fragments. Some quartz stringers in section from 205 to 208. Core grinding.									
228.	240.	Grey green breccia. Quartz veinlets @ 227. Fragments somewhat larger.									
240.	252.5	Dark green to black chlorite rich section coring poorly with loss of 2' from 242 to 245. Light green fragments in dark green to black matrix.									
252.5	258.	Grey green breccia. Quartz in broken core and possible fault gouge shows in section 257-258.									
258.	266.5	Dark grey breccia.									
266.5	276.	Grey green breccia.									
276.	313.	Light green breccia with darker green fragments.									

MORE TO FOLLOW

FORM T-12

COLLAR:
NORTH 6970.00
EAST 6637.57
ELEVATION 1538.22
AZIMUTH Vertical
DIP -90 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO North Star 16.
COMMENCED July 29/57.
FINISHED Aug. 18/57.
PURPOSE OF HOLE Exploration.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% PB	AG X W		
		Some narrow sections of grey breccia.									
313.	321.	Some quartz stringers @ 313 and 313.4. Predominantly green breccia.									
321.	325.	Amygdyloidal rhyolite-pale green with quartz threading in part. Possibly ruby silver @ 321. A few specks of pyrite showing.	50098	321	325	4.0	Tr.				
325.	337.	Darker green breccia. Some pyrite & pyrrhotite @ 326. Red jasper spotting core with small flecks @ 328.									
337.	353.	Grey green breccia with increase in jasper.									
353.	376.	Green breccia with small light coloured fragments and larger dark green fragments. Quartz stringers @ 354 and 374.5.									
376.	389.	Lighter green breccia with absence of foregoing light coloured fragments. Dark green fragments continuing.									
389.	450.	Purple-green breccia. Threads of quartz carbonate. Some fine pyrite fragments prominent.									
450.	493.	Green breccia - slightly silicified - locally fine pyrite. Some threads of quartz carbonate.									
493.	504.	Grey green breccia. Abundant carbonate in section 495-497.6. No mineralization.									

MORE TO FOLLOW.

FORM T-12

COLLAR:
NORTH 6970.00
EAST 6637.57
ELEVATION 1538.22
AZIMUTH Vertical
DIP - 90 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO North Star 16
COMMENCED July 29/57
FINISHED Aug. 18/57
PURPOSE OF HOLE Exploration.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% PB	AG X W		
504.	510.	Purple green breccia.									
510.	564.	Green breccia shading from dark to light @ 549.5	50051	565.0	569.0	4.0	4.28				4' - 4.3 Ag
		then darker as far as 564.	52	569.0	574.0	5.0	tr.				
564.	574.5	Light coloured green breccia. 2" quartz vein @	50101	620.5	624.0	2.5	.80				
		570. Section from 564 to 573 is well mineralized with very fine pyrite.	102	624.0	627.8	3.8	Tr.				
574.5	615.	Green-purple breccia with increase in size of fragments.	103	627.8	632.2	5.0	Tr.				
615.	620.5	Grey breccia. Quartz stringer @ 617.2.	104	632.2	637.0	4.8	Tr.				
620.5	656.5	Increase in silica with accompanying pyritization.	105	637.0	642.0	5.0	Tr.				
		Small green fragments in grey matrix. A threading of quartz, pyrite & jasper occurs parralleling	106	642.0	648.0	4.8	.60				
		the core between 631 and 632. Jasper occurs spottily from 634 onward. Several quartz stringers									
		@ 633.5 to 635. Pyrite stronger @640.									
656.5	672.	Darker green breccia, unmineralized slightly al-									
		tered augite porphyry - some purple fragments 669-672.									
672.	703.	Purple breccia - fine grained in part - fractured									
		& cemented with epidote 695-700.									
703.	706.	Basalt dike - contact @ 45 degrees to core. - cal-									
		cite amygdules & red hematite flecks after mafic mineral.									
		MORE TO FOLLOW.									

FORM 1-2

COLLAR:
NORTH 6970.00
EAST 6637.57
ELEVATION 1538.22
AZIMUTH Vertical
DIP -90 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. North Star 16
COMMENCED July 29/57
FINISHED Aug. 18/57
PURPOSE OF HOLE Exploration.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ.	% Pb	AG X W		
706.	760.	Green breccia - chloritized - sheared at 25° to 45° to core. Cut by threads of quartz-carbonate-barite with minor jasper.									
760.	762.5	Brecciated vein - some fine galena & pyrite.									
762.5	770.	Green breccia - shearing 45° to core - some silicification & fine pyrite.									
770.	775.	Quartz-barite vein - sphalerite, chalcopyrite galena & pyrite - some cinnamon quartz - 3' lost core.									
775.	814.3	Quartz-barite-vein - well mineralized with pyrite, sphalerite galena pyrrhotite & possibly argentite at 775 & 777 - very strong vein. 1.5' lost between 785 and 792.5 - 1.5' lost between 792.5 & 796.									
814.3	815.6	Lamprophyre dyke - Prominent biotite.	50109	760.0	765.0	5.0	.32	Tr.	1.80		)
815.6	825.	Vein-quartz barite - much pyrite & chalcopyrite some sphalerite & galena - some vein breccia along footwall.	110	765.0	770.0	5.0	.48	Tr.	1.20		)
			111	770.0	778.0	8.0	.36	.50	2.80	18.5'-	)
825.	838.	Green breccia - silicified - cut by quartz-carbonate stringers at 45° to core - some chalcopyrite & pyrite - 3½' lost between 828 & 834'.	112	778.0	783.0	5.0	1.90	6.50	19.70)	1.3Ag	)
			113	783.0	788.0	5.0	.76	2.30	2.30)	3.6Pb	) 55'-
			114	788.0	796.5	8.5	1.28	2.70	6.80)		) 5.1 Zn
838.	849.	Silicified & sericitized breccia - light grey-cemented by quartz barite - fine pyrite, chalcopyrite & occasional fleck of galena.	115	796.5	801.0	4.5	.28	Tr.	1.90		)
			116	801.0	806.0	5.0	.28	Tr.	8.20		)
			117	806.0	810.5	4.5	.34	Tr.	2.20		)
			118	810.5	815.0	4.5	.44	Tr.	2.20		

MORE TO FOLLOW.

FORM T-12

COLLAR:
NORTH 6970.00
EAST 6637.57
ELEVATION 1538.22
AZIMUTH Vertical
DIP -90 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO North Star 16
COMMENCED July 29/57
FINISHED Aug. 18/57
PURPOSE OF HOLE Exploration

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% PB	AG X W		
849.	853.	Quartz/barite vein - some jasper & hematite - fine	50093	815.	820.	5.0	.32	.50			
		pyrite, chalcopyrite & little galena.	94	820.	825.	5.0	.10	Tr.			
853.	860.	Silicified & sericitized breccia with fine pyrite.	95	825.	830.	5.0	Tr.	Tr.			
860.	871.	Lamp - basaltic composition - upper contact 45°	50099	848.	853.	5.0	Tr.				
		lower at 30°.									
871.	879.2	Silicified & sericitized breccia.									
879.2	885.6	Dike - gabbroic texture coarse plagioclase in									
		black matrix, fine grained but not chilled on contact 45°.									
885.6	889.	Silicified and sericitized grey breccia.									
889.	897.	Dike - gabbroic texture, coarse plagioclase in									
		black matrix, fine grained but not chilled on contact. Contact 25° to core.									
897.	908.	Silicified and sericitized breccia. Light grey									
		green matrix with prominent darker fragments. Some fine pyrite.									
908.	918.6	Green breccia. Slightly sheared augite porphry									
		some purplish. Altered toward bottom.									
		END OF HOLE.									
		NOTE: HOLE STARTED @ - 90°									
		DIP TEST TAKEN @ 800 SHOWED - 86° 15'									

FORM T-12

COLLAR:
NORTH 6954.59 TRANSIT
EAST 6643.49 SURVEYED
ELEVATION 1538.08
AZIMUTH 144 Degrees
DIP -67 Degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO North Star 17
COMMENCED August 20th, 1957
Stuck Rods Aug. 30/57 - Hole started again Oct. 13th & ended Oct.19/57.
Purpose of Hole - Exploration
NORTH STAR

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% PB	AG X W		
0.	21.	CASING.									
0.	21.	RED PLAGIOCLASE PORPHYRY-15 feet of core missing.									
21.	33.	RED PLAGIOCLASE PORPHYRY									
33.	43.	GREEN BRECCIATED PLAGIOCLASE PORPHYRY,transitional contacts with the red.									
43.	62.	RED PLAGIOCLASE PORPHYRY- some fragments.									
62.	71.	AUGITE PORPHYRY- Green - Some Breccia.									
71.	76.	RED PLAGIOCLASE PORPHYRY.									
76.	77.	AUGITE PORPHYRY- Altered by red plagioclase porphyry.									
77.	79.	RED PLAGIOCLASE PORPHYRY,sheared and fine grained.									
79.	85.	AUGITE PORPHYRY- some red alteration sheared 60° to core.									
85.	95.	RED PLAGIOCLASE PORPHYRY- sheared and hybridized with augite porphyry.									
95.	111.	AUGITE PORPHYRY- Green to 108, red 108-111									
111.	133	RED PLAGIOCLASE PORPHYRY,Fine grained at first, some inclusions of augite porphyry.									
133.	140	AUGITE PORPHYRY- some fine pyrite									
140.	179.	RED PLAGIOCLASE PORPHYRY- brecciated - threads of quartz carbonate.									

(MORE TO FOLLOW)

FORM T-12

COLLAR:
NORTH 6954.59 TRANSIT
EAST 6643.49 SURVEYED
ELEVATION 1538.08
AZIMUTH 144 Degrees
DIP -67 Degrees
LEVEL ~~Surface~~

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO North Star 17
COMMENCED August 20th, 1957
FINISHED Stuck Rods Aug.30/57- Hole started again Oct. 13th & ended Oct.19/57
Purpose of Hole - Exploration
NORTH STAR

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% PB	AG X W		
179.	191.	AUGITE PORPHYRY- Bleached matrix									
191.	206.5	PURPLE & GREEN PLAGIOCLASE PORPHYRY.									
206.5	212.	GREY GREEN DYKE.									
212.	222.	LAMPROPHYRE DYKE - amygdaloidal with calcite fillings.									
222.	224.7	GREY GREEN DYKE.									
224.7	241.	LAMPROPHYRE DYKE - amygdaloidal.									
241.	264.	GREY BRECCIA									
264.	289.	GREEN BRECCIA.									
289.	318.5	GREY GREEN BRECCIA - oxidized quartz stringer @	319.								
318.5	327.	LAMPROPHYRE DYKE - amygdaloidal.									
327.	333.	GREY BRECCIA with green fragments.									
333.	334.	LAMPROPHYRE DYKE.									
334.	337.	WELL BRECCIATED VEIN - dyke matter - unmineralized.									
337.	339.	BASALTIC DYKE - amygdaloidal.									
339.	348.	GREY GREEN BRECCIA - some purple fragments									
348.	362.5	PURPLE GREEN BRECCIA - large fragments.									
362.5	411.	PURPLE BRECCIA.									
411.	426.	LAMPROPHYRE DYKE - amygdaloidal.									

(MORE TO FOLLOW)

FORM T-12

COLLAR:
NORTH 6954.59
EAST 6643.49
ELEVATION 1538.08
AZIMUTH 144 Degrees
DIP -67 Degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO North Star 17
COMMENCED Aug. 20/57
~~Stuck Rods Aug. 30/57-Hole started~~
~~again Oct. 13th & ended Oct. 19~~/57
Purpose of Hole - Exploration.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% PB	AG X W		
426.	438.5	PURPLE GREEN BRECCIA									
438.5	439.5	DYKE									
439.5	454.	DARK GREY BRECCIA.									
454.	455.5	DYKE.									
455.5	507	PURPLE GREEN BRECCIA.									
507.	508.	DYKE.									
508.	538.5	PURPLE GREEN BRECCIA.									
538.5	542.5	GREY BRECCIA.									
542.5	585.	LAMPROPHYRE and Basalt Dyke.									
585.	618.	CRUSHED GREEN BRECCIA with mixed threadings of Quartz-Carb., or Barite common after 609.									
618.	626.5	GREY-GREEN PLAGIOCLASE PORPHYRY with red jasper threadings occurring with the afore-mentioned from 618-622.5									
626.5	681.	PURPLE BRECCIA - from a fine fragmented or crushed breccia to larger distinct fragments.									
681.	687.	GREEN PORPHYRY.	50209	698.5	703.5	5.0	1.42	2.0	Nil?	26.1	
687.	698.5	LAMPROPHYRE DYKE - amygdaloidal	10	703.5	708.5	5.0	3.12	5.6		8.5	2.1 Ag. 3.4 Pb.
698.5	710.	VEIN -quartz-barite-carb.carrying galena-sphalerite & pyrite. (MORE TO FOLLOW)	11	708.5	710.0	1.5	.98	.6		11.0	16.5 Zn.

FORM T-12

COLLAR:
NORTH 6954.59
EAST 6643.49
ELEVATION 153.08
AZIMUTH 144 Degrees
DIP -67 Degrees
LEVEL Surface.

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. North Star 17
COMMENCED Aug. 20/57
~~XXXXXXX~~ Stuck rods Aug. 31/57 - Hole started ~~XXXXXXXXXXXXXX~~ again Oct. 13th & ended Oct. 19/57
Purpose of Hole - Exploration

NORTH STAR

FROM	TO	DESCRIPTION (continued)	CORE SAMPLES SAMPLE NO.	FROM	TO	WIDTH	ASSAYS AG. OZ.	% PB	AVERAGES AG X W		REMARKS
698.5	710.	Drilling following wedging Of the Hole - (Wedge 8' long with 2° taper on first 5 feet).									
682.	684.	GREEN BRECCIA - fluidal appearance with threadings of carbonate.									
684.	686.5	DYKE - basaltic in texture with calcite filled amygdules.									
686.5	687.5	GREEN BRECCIA									
		END OF HOLE.									
687.5	696.5	DYKE (as before).	50238	696.5	701	4.5	.90	2.1		7.5	(wedged hole trouble)
696.5	709.	VEIN - quartz-carb.-barite with sphalerite-galena & minor pyrite	50239	701	709	8.0	1.50	4.7		16.9	

FORM T-12

COLLAR:-
NORTH 6595.3 Tape & Brunton
EAST 6897.1 from N.S. 15
ELEVATION 1470.5
AZIMUTH 230 Degrees
DIP -52.5 Degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. N.S. 18
COMMENCED September 8th. 1957.
FINISHED September 16th. 1957
PURPOSE OF HOLE Exploration.

NORTH STAR

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	~~XXXX~~ % Zn.		
0.	216.	GREY BRECCIA - Typical light green sericitic zones	50264	363	365	2.0	1.90	.80	5.30		
		with grey plagioclase porphyry fragments locally.	65	365	370	5.0	6.14	1.10	3.40	17' -	
216.	323.	AUGITE PORPHYRY BRECCIA - Light green matrix with	66	370	375	5.0	5.30	tr.	3.80	0.9 Pb.	
		dark green fragments, some purple zones - Augite in fluidal arrangement. Quartz carbonate 238 to 240	50225	375	380	5.0	1.88	1.50	3.10		
		with no mineralization - Many white flecks of leucoxene from 254 on - Seam of Quartz carbonate	26	380	385	5.0	3.64	tr.	1.50		
		& pyrite 304. to 304.6 - Some purple alteration 313 to 323 - GOOD AUGITE CRYSTALS 319'	27	385	390	5.0	14.30	tr.	2.70		
			50252	390	395	5.0	3.76	tr.	1.60		79' -
			53	395	400	5.0	4.56	tr.	1.70		4.8 Ag.
323.	348.	PURPLE & GREEN BRECCIA - Purple fragments - jasper	54	400.	405	5.0	9.96	tr.	7.50	CD.	2.3 Zn.
		flecks at 347.5	55	405	410	5.0	12.68	tr.	.20		
348.	357.5	GREEN BRECCIA SHEARED - AUGITE (?) Shot with car-	56	410	415	5.0	4.44	tr.	.50		
357.5	363.	bonate threads. RHYOLITIC BRECCIA - BARITE - Slightly pyritized.	57	415	420	5.0	1.06	tr.	1.40		
			58	420	424	4.0	.96	tr.	1.50		
		(MORE TO FOLLOW)	50228	424	430.6	6.6	1.14	tr.	1.10		
			29	430.6	435.5	4.9	2.24	tr.	2.40		
			30	435.5	442	6.5	2.74	tr.	1.20		
			31	470	473.5	3.5	.80	tr.	.50		
			32	473.5	478.5	5.0	tr.	tr.	tr.		

FORM T-12

COLLAR:-
NORTH 6595.3 Tape & Brunton
EAST 6897.1 from N.S. 15
ELEVATION 1470.5
AZIMUTH 230 Degrees
DIP -52.5 Degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. N.S. 18
COMMENCED September 8th. 1957
FINISHED September 16th. 1957
PURPOSE OF HOLE Exploration

NORTH STAR

FROM	TO	DESCRIPTION (continued)	CORE SAMPLES SAMPLE NO.	FROM	TO	WIDTH	ASSAYS AG. OZ.	% Pb	AVERAGES ~~XXXXX~~ % Zn.		REMARKS
363.	441.	VEIN - Quartz Barite Calcite Breccia with heavy pyrite in first 10 feet - Sphalerite & Galena mineralization light after 392.5 - Possible Native Silver at 407.5'.	50233	464	467	3.0	.20	tr.	.20		
			34	483	488	5.0	tr.	tr.	.20		
441.	480.	PARTLY REPLACED BRECCIA - Some like footwall breccia at the mine - Threads and Veinlets of Quartz Barite showing colloform structure cut at 40 to 45° - Core missing 450-452.									
480.	502.	AUGITE PORPHYRITE - Silicified & Pyritized.									
502.	539.	PURPLE & GREEN FRAGMENTAL - Some stringers at 40° to core.									
539.	553.	PURPLE & GREEN BRECCIA - Some bleaching & Silification.									
553.	621	PURPLE & GREEN FRAGMENTAL. Some augite porphyrite fragments 565 to 594.									
621.	656.	AUGITE PORPHYRITE - Silicified & brecciated - cut by Quartz. Carbonate stringers. Some Pyrite & Sphalerite.									
656.	672.	PURPLE & GREEN FRAGMENTAL. No mineralization or silification.									
		END OF HOLE									

FORM T-12

DOLLY VARDEN MINES LIMITED

(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

COLLAR:-
NORTH 6593.7 Tape and Brunton
EAST 6895.5 from N.S. 15.
ELEVATION 1473.0
AZIMUTH 230 Degrees
DIP -26 degrees for 357' from collar &
LEVEL Surface 330 degrees 30' from 357 to end of hole

HOLE NO. N.S. 19
COMMENCED September 16th, 1957
FINISHED September 30th, 1957(Stopped temporarily)
PURPOSE OF HOLE Exploration
Redeepening - October 9th, 1957 to Oct.11/57
NORTH STAR

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
0.	9.	GREY PLAGIOCLASE PORPHYRITE. Some leaching & oxidizing.									
9.	25.	GREY-GREEN BRECCIA. Fragments fairly large grey colored. Porphyritic @ times.									
25.	37.5	DARK GREY-GREEN BRECCIA. Fragments small, uniform, greenish coloured.									
37.5	76.	GREY BRECCIA WITH LARGE GREEN FRAGS. Narrow carbonate stgrs. @ 42.5, 44.5, 72.5 & 76.									
76.	85.	GREY BRECCIA WITH LARGE GREY FRAGMENTS. Oxidized @ 82.									
85.	139.	GREY-GREEN BRECCIA. Oxidation in section 90-93'. Grey fragm. 6" of carb. @96'. Slips oxidized in part. Barite carb. stgrs. @ 111.5-118, Narrow quartz carb. stgr. @ 124.3 with a little pyrite showing. A bit of brecciated quartz carb.									
139.	145	GREEN BRECCIA with large grey to black basaltic fragm. Oxidized and ground core from 143 to 144.5.									
145.	149.	LIGHTER COLOURED GREY-GREEN BRECCIA with smaller, less angular green fragm.									
149.	278.5	GREY BRECCIA - some red alteration - fragm. of plagioclase porphyry & augite porphyry - matrix light grey green with darker fragm.-some leucoxene broken & oxidized at 213'.									275-278 Badly Broken Chloritic Gouge, faulty

FORM T-12

DOLLY VARDEN MINES LIMITED

(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

COLLAR:
NORTH 6593.7 Tape and Brunton
EAST 6895.5 from N.S. 25
ELEVATION 1473.0
AZIMUTH 230 Degrees
DIP -26 Degrees for 357' from collar & 33 degrees 30' from 357 to end of hole.
LEVEL Surface

HOLE NO N.S.19
COMMENCED September 16th, 1957
FINISHED September 30th, 1957 (Stopped temporarily)
PURPOSE OF HOLE Exploration
Redeepening - October 9th, 1957 to Oct. 11/57
NORTH STAR

FROM	TO	DESCRIPTION (Continued)	CORE SAMPLES SAMPLE NO	FROM	TO	WIDTH	ASSAYS AG OZ.	% Pb	AVERAGES AG X W		REMARKS
278.5	297.	GREY PLAGIOCLASE PORPHYRTE with green phases & threadings of carb.									
297.	306.5	GREEN BRECCIA becoming carbonaceous from 303.5. Well brecciated.									
306.5	312	QUARTZ-CARB. vein with pyrite and a bit of pyrrhotite. Chloritic.	50235	306.5	312	5.5	tr.				
312.	352.	GREEN BRECCIA with some grey porphydritic phases. Fragm. grey & quite large. Quartz & carb. threading @ 331.5 & section 335-337 with the former showing a little pyrite & chalcopyrite.									
352.	391.5	GREEN PURPLE BRECCIA - large purple fragm. in a green matrix.									
391.5	461.5	PURPLE BRECCIA - large darker purple & green fragm.									
461.5	472.	PURPLE GREEN BRECCIA									463-465 Badly broken, looks like gouge. Broken & highly Brecc to 476.
472.	490.	SHEARED GREEN BRECCIA - with increase of silica. Narrow quartz carb. stringer @ 490.7 shows small laths of barite & some pink jasper.									476-479.5 broken
490.	497.6	PURPLE & GREEN BRECCIA - large purple frags. 50% Little leucoxine alt.									478-487 lost 6' 487-521 broken up core
497.6	500	GREEN BRECCIA AUGITIC - some jasper frags. 498.6-500 silic. & Pyrit. Lineation of PYS2 & Chloritized bands @ 50° to core.									
500.	500.8	VEIN - No recognizable silver minerals.	67973	500	501	1.0'	TR				

(MORE TO FOLLOW)

FORM T-12

DOLLY VARDEN MINES LIMITED

(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

COLLAR:
NORTH 6593.7 Tape & Brunton
EAST 6895.5 from N.S. 25
ELEVATION 1473.0
AZIMUTH 230 Degrees
DIP -26 Degrees for 357' from collar and 33 Degrees 30' from 357 to end of hole
LEVEL Surface

HOLE NO North Star 19
COMMENCED September 16th, 1957
FINISHED September 30th 1957 (stopped temporarily)
PURPOSE OF HOLE Exploration
Redeepening - October 9th, 1957 to Oct.11/57

NORTH STAR

FROM	TO	DESCRIPTION (continued)	CORE SAMPLES SAMPLE NO.	FROM	TO	WIDTH	ASSAYS AG OZ	% Pb	AVERAGES AG X W		REMARKS
500.8	510	GREEN & PURPLE BRECCIA - 501-506 slightly silicified.									
		506-509 dark grey frags. ¼" - ½" in size. 509-510 bleached, light green with large white leucoxine flecks?									
510.	527.6	GREEN BRECCIA. Fragm. darker shade of green than matrix, some grey fragm. also. Slight pyritization @ 524. Section from 525-527 has purple fragm.									
527.6	567	GREY BRECCIA with light green fragm. Coarse fragm. in fine matrix. Some carb., threading @ 546 & as shear filling @ 548. Shear cuts core @ 15° approx. 562-563 contact, possible fault, @ 15° approx. to the core. Calc. & mud filling in 3/16" seam. Rock light grey with fragm. blurred & in flowing arrangement. From 563 to 567 a grey breccia with light coloured large, angular green fragm.									
567.	580.	LIGHT GREEN BRECCIA with darker green or grey fragm. becoming somewhat siliceous after 574. A little pyrite showing @ 575.7. Quartz stringer @ 576.									
580.	581.6	GREYBLACK BASALTIC DYKE with contact @ 45° to the core.									
581.6	582.4	GREY BRECCIA with large light green frags.									
582.4	583.4	LAMP DYKE & chilled contacts 582.4 @ 60° & 583.4 @ 80°.									
583.4	627.4	GREY BRECCIA with plagioclase frags., and sericitized zones; 589-598 & 620-627 with little dissem. Pyrite mineralization. Light green fluidal augite bearing rock with silicified & sparsely pyritized zones: 589-589.3, 591.5-592, 601-602, 614.7-615. Core broken: 600-601, 607-608.									
627.4	628.7	LAMP DYKE & calcite amygdules. Some epidote altered feld. & few hematite altered mafics.									

(MORE TO FOLLOW)

FORM T-12

DOLLY VARDEN MINES LIMITED

(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

COLLAR:
NORTH 6593.7 Tape & Brunton
EAST 6895.5 from N.S. 25
ELEVATION 1473.0
AZIMUTH 230 Degrees
DIP -26 Degrees for 357' from collar and 33 Degrees 30' from 357 to end of hole
LEVEL Surface

HOLE NO North Star 19
COMMENCED September 16th, 1957
FINISHED September 30th, 1957
PURPOSE OF HOLE Exploration (stopped temporarily)
Redeepening - October 9th 1957 to Oct. 11/57.
NORTH STAR

FROM	TO	DESCRIPTION (continued)	CORE SAMPLES SAMPLE NO.	FROM	TO	WIDTH	ASSAYS AG OZ	% Pb	AVERAGES AG X W		REMARKS
628.7	632.6	GREY BRECCIA with some light greenish frags. 629.8-632 seritized & predominantly green in color.									
632.6	634.4	LAMP DYKE - dark grey to constituents as above. Contacts @ 75° & 50°.									
634.4	652.4	GREY BRECCIA with large light green augits bearing fragm. Highly silicified 644-651.5.									
652.4	655.	LAMPROPHYRE DYKE (as above) and with contacts @ 75° & 50°.									
655.	663.6	GREEN BRECCIA highly silicified with large darker green augite bearing frags.									
663.6	682.3	GREEN BRECCIA slightly silicified and grading to a grey porphyritic breccia with few calcite fragm.									
682.3	683.5	LAMPROPHYRE DYKE as above and with contact @ 0° & 5°.									
683.5	700.5	GREY BRECCIA with plagioclase phenocrysts & large light grey fragm. Ground core 690.5-691.5, 692.5-699. Lost 4'.									
700.5	710	GREEN SILICIFIED BRECCIA with small dark green fragm. Sparsely dissem. leucoxine alteration and some irregular qtz. carb. stgrs. 708-710 little PYS2 @ 709.									
710.	712.	HIGHLY SILICIFIED GREEN BRECCIA 711.5-712 vein mostly qtz. & carb. Lineation @ 45°.									

(MORE TO FOLLOW)

FORM T-12

DOLLY VARDEN MINES LIMITED

(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

COLLAR:
NORTH 6593.7 Tape & Brunton
EAST 6895.5 from N.S. 25
ELEVATION 1473.0
AZIMUTH 230 Degrees
DIP -26 Degrees for 357' from collar and 33 Degrees 30' from 357 to end of hole
LEVEL Surface

HOLE NO North Star 19
COMMENCED September 16th 1957
FINISHED September 30th 1957 (stopped temporarily)
PURPOSE OF HOLE Exploration
Redeepening - October 9th 1957 to Oct. 11/57
NORTH STAR

FROM	TO	DESCRIPTION (continued)	CORE SAMPLES SAMPLE NO.	FROM	TO	WIDTH	ASSAYS AG OZ	% PB	AVERAGES AG X W		REMARKS
712.	714.	GREEN BRECCIA WITH SMALL LIGHT GREEN FRAGM. Little leucoxine alt. and qtz. carb. stgrs. 0-20° to core.									
714.	726.	GREY GREEN BRECCIA - light coloured well silicified. Fine pyrite speckling the core in part.									
726.	733.	GREY BRECCIA with silica decrease. Fragm. dark grey and fairly large. 731-733 badly broken.									
		END OF HOLE									

FORM 1 12

COLLAR:
NORTH 6593.0
EAST 6920.5
ELEVATION 1463
AZIMUTH 161 Degrees
DIP -50
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. N.S. 20
COMMENCED October 1st. 1957
FINISHED October 8th. 1957
PURPOSE OF HOLE Exploration
NORTH STAR

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	%Pb	AG X W		
0.	44.	LIGHT GREEN BRECCIA with darker green; grey and purple fragment sections, 6" to 1' of grey plagioclase porphyrite. Breccia fragments are coarse in a matrix of smaller elongated and lineated fragments.									
44.	56.6	NO CORE.									
56.6	67	GREEN BRECCIA - large green fragments in bleached light green matrix. Some oxidation.									
67.	113	GREEN & PURPLE - 67-74 oxidation of some fragments and of minute fractures. Broken core: 68.6-69.6 and 72.6-73.102-113' qtz. Carb. strgrs. @ 20-45° to core.									
113.	177.	GREY GREEN BRECCIA with plagioclase frags. & qtz. carb. stgrs. @ 45° to core. Some narrow oxidation zones. 120-177 purple to green variations. No large fragments except in narrow brecciated zones. 162-165 large dark green & purple frags. in light green matrix.									
177.	181.6	DYKE - Black with calcite amygdules and dark green mafic. Chilled contacts @ 177' - Broken @ 181.6 - 50°.									
181.6	214.	GREEN EVEN TEXTURED BRECCIA with plagioclase, qtz. & jasper frags. Little leucoxine alteration. 189-191 large frags. in silic. matrix. @ 211 - 1" dykelet.									
214.	222	PURPLE BRECCIA with much plagioclase and some jasper frags.									
222.	237.	GREEN BRECCIA with some plagioclase and leucoxine.									

(MORE TO FOLLOW)

FORM T-12

COLLAR:
NORTH 6593.0
EAST 6920.5
ELEVATION 1463.
AZIMUTH 161 Degrees
DIP -50
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE
CO-ORD
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PURP

FROM	TO	DESCRIPTION (Continued)	CORE SAMPLES SAMPLE NO.	FROM	TO	WIDTH	A
222.	237	Many narrow brecciated zones with quartz carb., filling. Some oxidation.					
237.	318	GREEN & PURPLE BRECCIA. Light green matrix with dark green & purple frags. Lineation @ 60°. Some oxidation of fractures & fragments. 282-311 large green & purple frags. 285-311 deep red hematite. Altered zones. Little leucoxine alteration of light green silic., portions.					
318.	332.	GREEN BRECCIA. Narrow quartz stringers @ 331.5					
332.	340.5	BASALTIC TO LAMPROPHYRIC DYKE with calcite filled amygdules.					
340.5	344.5	PURPLE & GREEN BRECCIA. A little coarse pyrite @	343.2				
344.5	348.	GREY BRECCIA, sheared, siliceous, with disseminated	pyrite.				
348.	350.	GREY AMYGDOLOIDAL DYKE					
350.	357.5	QUARTZ-CARBONATE VEIN with heavy pyrite in part.	50236	351.	353.5	2.5	5
357.5	394.7	LAMPROPHYRE DYKE	37	353.5	357.5	4.0	3
394.7	398.	AUGITE BEARING fine textured volcanic with narrow dyke section @ 397.5					
398.	403.6	DARK GREY-GREEN fine textured breccia with slight	pyritization				
		in poorly cored section @ end of hole.					
		END OF HOLE.					

FORM T-12

COLLAR:-
NORTH 6374'
EAST 6602'
ELEVATION 1026'
AZIMUTH 315 degrees
DIP 0° 30'
LEVEL 1000

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO N. S. 10-U-14
COMMENCED August 27, 1958
FINISHED August 29, 1958.
PURPOSE OF HOLE Exploration
North Star

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% PB	AG X W		
0	12.5	Vein - quartz, carbonate, barite highly brecciated	66026	0	5	5.0	0.80				
		Some disseminated galena, little pyrite, sphalerite and chalcopyrite.	66033 34	5 15.8	12.5 21	7.5 5.2	1.46 1.80				
12.5	15.8	Dyke - dark green with chilled contacts @ 30 & 10°	35	21	26	5.0	1.40				
15.8	28.5	Vein - quartz, barite, carb. with fair amount of	36	26	28.5	2.5	2.16				
		galena mineralization as disseminations and irregular patches.	37	29	35	6.0	1.28				
28.5	29	Dyke - light green with dark green fragments & chilled contacts @ 50 & 60°	39	43	48	5.0	1.00				
29	35	Vein - mostly qtz. with some barite & carb. 29.2 -	40	48	52	5.0	TR				
		29.4 dyke with contacts at 20 & 30°. 30 - 31.5 some greenstone little jasper. Also some galena	41 42	61 73.8	67.5 79	6.5 5.2	9.40 2.86				
		& pyrite. 31.5 - 32.1 much dissem galena. 33 -	43	79	84	5.0	1.96				
		34 approx. 20% greenstone, little pyrite min. 34 -	44	84	89	5.0	0.88				
		34.3 dyke with contacts @ 10 & 20°. 35' contact irregular.	45	89	94	5.0	1.32				
35	37	Green breccia with approx. 10% vein fragments some	46	94	98.5	4.5	0.90				
		pyrite mineralization.									
37	39.7	Dyke - dark green to black with chilled contacts									
		@ 45°. Dark green fragments and calcite amygoules.									
39.7	40.1	Dyke - with contacts at 50° & vert.									
40.1	43	Green breccia with approx. 10% vein stringers &									
		fragments some pyrite mineralization.									

MORE TO FOLLOW.

FORM T-12

COLLAR:
NORTH 6374'
EAST 6602'
ELEVATION 1026'
AZIMUTH 315 degrees
DIP plus 0°30'
LEVEL 1000

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO N. S. 10-U-14
COMMENCED August 27th, 1958
FINISHED August 29th, 1958
PURPOSE OF HOLE Exploration
North Star

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% PB	AG X W		
43	52	Vein - qtz., barite & calcite with little galena and pyrite min. Highly brecciated - poor looking									
52	61	Dyke - dark green to black gabbro, medium texture-contacts vert & 10° to core.									
61	67.5	Vein. - qtz., barite and calcite with fair galena min. Little sphalerite, pyrite and chalcopyrite also some grey altered wall rock from 65 - 67-5. Highly brecciated.									
67.5	73.8	Dyke - light green with small dark green mafics and chilled contacts @ 0° to core. 67.5 little gouge core broken to 68. 70 - 71 core broken.									
73.8	98.5	Vein - Much pyrite & little galena to 76. 76-76.3 dyke 76.3 - 77 fair galena and sphalerite. 77 - 78 small jasper fragments. 78 - 85 - qtz., barite and carbonate with approx. 10% pyrite min. Little galena and sphalerite. Poor looking vein 85 - 91 - Predominantly barite (laths) with some qtz. and calcite. 91 - 93 - Poor looking vein including some highly altered and pyritized greenstone 93 - 98.5 some good sphalerite and galena min. and some barite lathing.									
98.5	107	Silicified & pyritized greenstone breccia with contacts 98.5' @ 40°									

MORE TO FOLLOW

FORM T-12

COLLAR:
NORTH 6374'
EAST 6602'
ELEVATION 1026'
AZIMUTH 315 degrees
DIP plus 0° 30'
LEVEL 1000

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO N. S. 10 - U - 14
COMMENCED August 27, 1958.
FINISHED August 29, 1958.
PURPOSE OF HOLE Exploration
North Star

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO	FROM	TO	WIDTH	AG OZ	% PB	AG X W		
107	109	Purple & green breccia with lineation at 50° to Core.									
109	115	Dyke - black with dark green fragments and calcite amygoules. 113.5 contacts @ 50°. Contact 115' @ 60°									
115	116	Predominantly purple breccia with some small chloritic fragments and stringers.									
116	117	Dyke - black micaceous (biotite) with calcite amygoules. Contacts @ 60° to core.									
117	120.5	Red to purple breccia with some carbonate fragments and minute threadings. Lineations @ 60°									
120.5	121	Dyke - as above with much biotite contacts @ 20°									
121	127	Grey to purple breccia with some carbonate threads and lineation at 60°.									
127	130	Dyke - coarse and gabbroic with chilled contacts @ 10°.									
130	153	Purple & green breccia with small dark green fragments, slightly silicified with some qtz., carbonate stringers & threads.									
	153	END OF HOLE									

FORM T-12

COLLAR:-
NORTH 6454.82
EAST 6685.22
ELEVATION 1025.99
AZIMUTH 317 degrees
DIP - 6° - 15'
LEVEL North Star Adit

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. N.S. 10-U-18
COMMENCED Oct. 15, 1958.
FINISHED Oct. 25, 1958.
PURPOSE OF HOLE Exploration
North Star

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
0	32	Purple plagioclase porphyrite, inclusions of	69715	32	34	2.0	0.12				
		bleached greenstone, minor calcite stringers	16	52	57	5.0	5.16				
32	34	Vein predominately quartz, some pyrite	17	57	62	5.0	1.40				
34	44	Greenstone - bleached and pyritized, some vein	18	62	68.5	6.5	1.12				
		breccia inclusions									
44	52	Dyke - dark green	69720	68.5	75	6.5	1.92				
52	84	Vein predominately quartz, some pyrite and minor	21	75	80	5.0	1.46				
		galena, high sulphide. Contact 70 -75.	22	80	84	4.0	1.28				
84	86.5	Dyke	23	86.5	91.5	5.0	16.88	) 5' -	16.88		
86.5	91.5	Vein - predominately quartz, some sulphides	24	103	110	7.0	3.68				
91.5	103	Dyke	25	111	116	5.0	4.36				
103	136	Vein - predominately quartz. High sulphide con-	26	116	121	5.0	1.74				
		tent, mainly pyrite, considerable galena, some	27	121	126	5.0	3.44				
		sphalerite, 1'-0 dyke @ 110 - 111. Some greenstone	28	126	132	5.0	2.84				
		fragments. Fault 132 - 133?									
136	153	Greenstone - bleached, pyritized. Some vein fragments									
153	168	Dyke - dark green	29	132	136	4.0	2.16				

MORE TO FOLLOW

FORM T-12

COLLAR:-

NORTH 6454.82
EAST 6685.22
ELEVATION 1025.99
AZIMUTH 317 degrees
DIP - 0° - 15'
LEVEL North Star Adit

DOLLY VARDEN MINES LIMITED

(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. N. S. 10-U-18
COMMENCED Oct. 15, 1958.
FINISHED Oct. 25, 1958.
PURPOSE OF HOLE Exploration
North Star

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
168	206	Greenstone - bleached, pyritized. Some vein fragments. Dyke 176 - 177.									
206	211	Greenstone, threads and stringers of quartz & calcite.									
		END OF HOLE									

FORM T-12

COLLAR:
NORTH 6410
EAST 6644
ELEVATION 1027
AZIMUTH 316 degrees
DIP plus 70 degrees
LEVEL North Star Adit

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. N. S. 10-U-42
COMMENCED January 2nd, 1959
FINISHED January 3rd, 1959
PURPOSE OF HOLE Exploration
North Star

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
0	14.5'	Grey and green volcanics - fine grained - showing few scattered crystals of pyrite. Few irregular quartz and calcite stringers.									
14.5'	18'	Breccia of volcanics and vein fragments - less than 50% vein.									
18'	34.5'	Vein - mainly quartz and barite, sparsely mineralized with pyrite, galena and chalcopyrite.	56431	18	25	7	1.48				
			32	25	30	5	1.08				
34.5'	51'	Vein - mainly quartz with mixed sulphides - pyrite, galena, sphalerite, and chalcopyrite. No silver minerals observed. Silicified country rock fragments and vein 43' to 45'. Heaviest sulphides 37' to 40.5' and 45' - 49.5'	33	30	34.5	4.5	1.26				
			34	34.5	40	5.5	TR.				
			35	40	45	5	0.68				
			36	45	51	6	1.08				
		END OF HOLE									
		This hole started at wrong station in adit, - work stopped when error discovered. Continued Jan. 18.									

FORM T-12

COLLAR:-
NORTH 6410.0
EAST 6643.4
ELEVATION 1030.6
AZIMUTH 316 degrees - 02'
DIP plus 71 - 00
LEVEL North Star Adit

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. N. S. 10-U-42
COMMENCED Resumed January 18, 1959
FINISHED January 19, 1959
PURPOSE OF HOLE Exploration
North Star

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	%Pb	AG X W		
51	60.5	Vein - quartz and barite, abundant pyrite with	69835	51	56	5.0	3.04				
		scattered galena and sphalerite. Grey and brownish	36	56	60.5	4.5	13.48	) 4.5'	- 13.5		
		patches in the quartz showing no sulphides. No silver minerals noted.									
60.5	75	Dyke - grey, fine-grained, with white phenocrysts.									
75	90	Vein - quartz and barite with abundant pyrite.	69837	75	80	5.0	2.66				
		Patches of galena and sphalerite and few specks of	38	80	85	5.0	4.36				
		chalcopyrite. After pyrite, sphalerite appears to	39	85	90	5.0	20.96			)	)
		be the most abundant sulphide mineral. No silver minerals observed.								)10'-15.7)	)20'-9.64 Ag 1.60 Pb 6.72 Zn
90	95	Vein and pyritized greenstone. At 90' - 91.5',	69840	90	95	5.0	10.60				
		nearly all vein, decreasing to all pyritized green-									
		stone at 95'. About one foot of core missing between 93' and 95'; otherwise core recovery good.									
95	97	Purple tuffs - rather soft - core in short pieces									
		(2" and less) but core recovery O.K.									
		END OF HOLE									

FORM T-12

COLLAR:
NORTH 6453
EAST 6685
ELEVATION 1027
AZIMUTH 316 degrees
DIP plus 70
LEVEL North Star Adit

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. N. S. 10-U-43
COMMENCED January 5, 1959
FINISHED
PURPOSE OF HOLE Exploration
North Star

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
0	20.5'	Fine-grained grey volcanics locally silicified and									
		containing a few vein fragments with scattered py-									
		rite and chalcopyrite. Few calcite stringers.									
20.5	21	Quartz showing a little galena.									
21	25	Breccia of grey, silicified volcanics and vein-									
		matter (75% volcanics - 25% vein). Pyrite and									
		chalcopyrite present.									
25	36	Vein - mainly quartz and barite, sparsely mineral-	56437	25	30	5	2.00				
		ized with pyrite, sphalerite and very little galena.	38	30	35	5	0.66				
		Heavy barite at 28'	39	35	40	5	1.14				
36	65	Vein - similar to 25' - 36' but with higher sul-	40	40	45	5	3.60				
		phide content. Scattered sphalerite and galena	41	45	50	5	2.08				
		throughout. Heavy pyrite at 46' and 58'. Green-	42	50	55	5	7.76				
		stone fragments 55' to 56'.	43	55	60	5	6.96				
			44	60	65	5	48.12				
65	81	Vein - mainly quartz well mineralized with pyrite,	45	65	70	5	7.26	)			31' - 17.30 Ag
		galena, sphalerite. Some dark patches in the quartz	46	70	75	5	27.60	) 31'			0.57 Pb
		without visible sulphides. No Ag. noted.	47	75	81	6	8.00	)			2.92 Zn
81	86	Greenstone - fine grained, silicified, with one	)								
		vein fragment (2") at 83.5'.	)								
			) Dyke - light green								
			) grading to dark green								
86	93	Fine grained grey volcanics containing scattered	)								
		pyrite. From 92' to 93' silicification & bleaching.	)								
93	97	Vein - mainly quartz well mineralized with pyrite,	56448	93	97	4	17.36	) 4'-	17.4		
		galena and sphalerite.									

MORE TO FOLLOW

FORM T-12

COLLAR:-
NORTH 6453
EAST 6685
ELEVATION 1027
AZIMUTH 316 degrees
DIP plus 70
LEVEL North Star Adit

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. N. S. 10-U-43
COMMENCED January 5, 1959
FINISHED January 8, 1959
PURPOSE OF HOLE Exploration
North Star

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
97	99	Silicified greenstone - very light in colour and with abundant pyrite.									
99	111	Grey and green volcanics - locally bleached and pyritized. 4" quartz stringer at 102'. Other minor quartz and calcite stringers none showing sulphide minerals. Core badly broken but none lost. Some evidence of movement (minor fault?) at 105'.									
		END OF HOLE									

FORM T-12

COLLAR:
NORTH 6365.0
EAST 6613.0
ELEVATION 1034.2
AZIMUTH 134 - 48'
DIP plus 80 - 30'
LEVEL North Star Adit

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO N. S. 10-U-44
COMMENCED January 9th, 1959.
FINISHED January 13th, 1959.
PURPOSE OF HOLE Exploration.
North Star.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% PB	AG X W		
0	11	Fine-grained grey volcanics containing finely-divided pyrite. Minor silicified patches with local concentrations of pyrite.									
11	20	Highly silicified grey volcanics with vein fragments. Pyrite throughout. No other sulphide minerals observed.	56449	11	20	9	Tr.				
20	30	Vein - mainly quartz with few large barite laths. Finely divided pyrite throughout. Scattered specks of galena and sphalerite.	56450	20	25	5	0.88				
			69801	25	30	5	0.88				
			69803	30	35	5	Tr.				
30	106	Vein - similar to above but with higher sulphide content. Sulphides increase with the footage, particularly the galena. Local concentrations of pyrite at 52' to 55', 66.5' to 68', 94.5' to 96' and 99' to 101'. An inclusion of greenstone with pyrite 83' to 85'. Local concentrations of galena at 50' to 51', and 97' to 104'. From 105.5' to 106' bleached & pyritized volcanics with sericite. This included in sample.	04	35	40	5	0.88				
			05	40	45	5	1.20				
			06	45	50	5	1.24				
			07	50	55	5	2.08				
			08	55	60	5	1.32				
			09	60	65	5	1.20				
			10	65	70	5	3.76				
			11	70	75	5	2.50				
106	112	Greenstone - fractured, locally bleached, and with quartz and calcite veinlets.	12	75	80	5	3.78				
			13	80	85	5	8.00				
112	126	Purple tuffs.	14	85	90	5	15.94				
			15	90	95	5	12.24				
			16	95	100	5	11.40				
			17	100	106	6	5.16				
		END OF HOLE									

FORM T-12

COLLAR:-
NORTH 6452
EAST 6685
ELEVATION 1030
AZIMUTH -
DIP plus 90
LEVEL North Star Adit

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. N.S. 10-U-45
COMMENCED January 14th, 1959
FINISHED January 14th, 1959
PURPOSE OF HOLE Exploration
North Star

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	%Pb	AG X W		
0	2	Casing									
2	19.5	Light green & grey volcanics with occasional purple patches - locally silicified - few quartz and calcite stringers. Scattered, fine-grained pyrite and few specks chalcopyrite.									
19.5	23	Vein - mainly quartz, some barite. Sparse pyrite and galena. Local concentration of galena at 22 feet	69818	19.5	23	3.5	0.60				
23	28	Light green silicified volcanics containing a little fine-grained pyrite.									
28	33	Vein - mainly quartz with some barite. Low sulphide content. 30' to 31.5' shows dark patches in the quartz. No silver minerals observed.	69819	28	33	5.0	0.60				
			20	33	38	5.0	TR.				
			21	38	43	5.0	TR.				
33	48	Vein - mainly barite. Sparse pyrite & galena.	22	43	48	5.0	0.52				
48	103	Vein - averages about 70% quartz, some barite.	23	48	53	5.0	TR				
		Galena, sphalerite and pyrite increasing. Best concentrations of galena and sphalerite 70' to 74', and in patches between 75' and 100'. No silver minerals observed. Buff and grey patches in quartz	24	53	58	5.0	3.00				
			25	58	63	5.0	3.04	)		)	
			26	63	68	5.0	13.32	) 30'	- 18.2	)	
			27	68	73	5.0	15.60	)		)	
		showing no visible sulphides. Some coarse galena and sphalerite at 67' elsewhere finer grain size.	28	73	78	5.0	11.16	)		)	45'-14.09 Ag
			29	78	83	5.0	46.12	)		)	1.21 Pb
		Scattered pyrite throughout, as both separate crystals and small masses.	30	83	88	5.0	10.24	)		)	7.04Zn
		MORE TO FOLLOW									

FORM T-12

COLLAR:-
NORTH 6452
EAST 6685
ELEVATION 1030
AZIMUTH -
DIP plus 90
LEVEL North Star Adit

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. N. S. 10-U-45
COMMENCED Jan. 14, 1959
FINISHED Jan. 17, 1959
PURPOSE OF HOLE Exploration
North Star

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
103	108.5	Vein - mainly quartz with patches of massive pyrite.	69831	88	93	5.0	12.40	)		)	(Estimate - lead
		Vein interspaced with fragments of silicified coun-	32	93	98	5.0	7.96			)	& zinc content
		try rock, locally bleached & pyritized. Very little	33	98	103	5.0	8.90			)	63' to 103' to
		galena or sphalerite.	34	103	108.5	5.5	2.32			)	average at least
											1% of each metal)
108.5	113	Greenstone breccia containing pyrite. Core broken.									
		Soft dark green mineral adjacent to quartz and cal-									
		cite veinlets.									
		END OF HOLE									

FORM T-12

COLLAR:-

NORTH 6490.0
EAST 6721.1
ELEVATION 1030.1
AZIMUTH 315 Degrees 12'
DIP plus 70 Degrees 30'
LEVEL North Star Adit

DOLLY VARDEN MINES LIMITED

(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. N.S. 10-U-46
COMMENCED January 20th, 1959
FINISHED January 24th, 1959
PURPOSE OF HOLE Exploration
NORTH STAR

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
0	25	Green & purple volcanics mixed, considerably bleached, minor pyritization, vein fragments 15 - 18.									
25	54	Vein predominantly quartz, some sulphides, mainly pyrite, content 42-43.	69841	25	30	5.0	0.90				
			42	30	35	5.0	TR.				
54	65½	Vein - predominantly quartz, considerable sulphides, galena, sphalerite & pyrite. No visible silver minerals.	43	35	40	5.0	0.64				
			44	40	45	5.0	TR.				
65½	68	Alter & pyritized volcanics	45	45	50	5.0	TR.				
68	120	Mixed purple & green volcanics, primarily purple with green breccia, fragments, 1" calcite stringer @ 91.	46	50	54	4.0	11.00	15.5'-	9.38	Ag.	
			47	54	59	5.0	6.18		2.15	Pb.	
120	150	Mixed purple & green volcanics; primarily green with inclusions of purple.	48	59	65½	6.5	10.84		5.16	Zn	
		Broken core, 140 - 141; 143 - 150, Gouge @ 147; minor fault @ 130.									
		END OF HOLE									

FORM T-12

DOLLY VARDEN MINES LIMITED

(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

COLLAR:-
NORTH 6410.6
EAST 6648.6
ELEVATION 1030.6
AZIMUTH 136 Degrees 02'
DIP Collar plus 71 Degrees 30'; 80' plus 74 Degrees
LEVEL North Star Adit 150' plus 72 Degrees

HOLE NO. N.S. 10-U-48
COMMENCED January 30th, 1959
FINISHED February 5th, 1959
PURPOSE OF HOLE EXPLORATION
NORTH STAR

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
0	21	Green & purple volcanics mixed, some bleaching	69857	30	34	4.0	TR.				
		0 - 4, some threads & minor stringers of quartz & calcite	58	34	40	6.0	2.62				
21	30	Green volcanics, bleached, with some vein fragments.	59	40	45	5.0	6.24				
30	34	Vein predominantly calcite, some volcanic fragments.	60	45	50	5.0	7.72				
34	37½	Green volcanics, bleached & silicified.	61	50	55	5.0	1.00				
37½	80½	Vein predominantly barite, some calcite & quartz; mineralization sparse.	62	55	60	5.0	2.60				
			63	60	65	5.0	5.00				
80½	153	Vein predominantly quartz, some barite, considerable sulphides, pyrite, sphalerite and galena; higher sulphide content 115 - 153.	64	65	70	5.0	0.56				
			65	70	75	5.0	0.40				
			66	75	80	5.0	1.40				
153	168	Greenstone, some pyritization, minor calcite & quartz stringers.	67	80	86	6.0	2.24				
			68	86	90	4.0	5.88				
			69	90	95	5.0	6.00				
			70	95	100	5.00	14.56				
			71	100	105	5.0	8.08				
			72	105	110	5.0	8.86				
			73	110	115	5.0	22.60	30' -	17.6		
			74	115	120	5.0	29.92				

FORM T-12

COLLAR:
NORTH 6410.6
EAST 6648.6
ELEVATION 1030.6
AZIMUTH 136 Degrees - 02'
DIP plus 71 Degrees - 30'
LEVEL North Star Adit

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. N.S. 10-U-48
COMMENCED January 30th, 1959
FINISHED February 5th, 1959
PURPOSE OF HOLE EXPLORATION
NORTH STAR

FROM	TO	DESCRIPTION (continued)	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
			69875	120	125	5.0	19.24				45'-14.00 Ag. 3.53 Pb. 6.00 Zn.
			76	125	130	5.0	5.56				
			77	130	135	5.0	7.00				
			78	135	140	5.0	3.76				18' - 2.00 Ag. 1.28 Pb. 6.38 Zn
			79	140	145	5.0	1.66				
			80	145	150	5.0	1.76				
			81	150	153	3.0	TR.				
		END OF HOLE									

FORM T-12

COLLAR:-
NORTH 6450.2
EAST 6688.2
ELEVATION 1029.9
AZIMUTH 137 degrees - 00'
DIP plus 70 degrees - 00'
LEVEL North Star Adit

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. N. S. 10-U-49
COMMENCED February 6th, 1959
FINISHED February 11th, 1959
PURPOSE OF HOLE Exploration
North Star

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	%Pb	AG X W		
0	9	Greenstone - silicified, minor webs of quartz	69882	33½	40	6.5	0.80				
9	14	Purple volcanics.	83	40	45	5.0	2.20				
14	33½	Green & purple volcanics mixed, 4" vein @ 23½, 6"	84	45	50	5.0	8.76				
		vein @ 26½, 4" vein @ 30.	85	50	55	5.0	4.80				
33½	88½	Vein predominantly barite, some calcite & quartz -	86	55	60	5.0	1.70				
		sparse mineralization. Some greenstone inclusions 36 - 41.	87	60	65	5.0	1.60				
88½	150	Vein predominantly quartz, considerable barite, some	88	65	70	5.0	1.20				
		calcite, considerable mineralization sphalerite,	89	70	75	5.0	1.68				
		pyrite, galena. Some greenstone inclusions 146-150.	90	75	80	5.0	0.40				
150	160½	Vein & greenstone mixed - greenstone pyritized &	91	80	85	5.0	1.40				
		silicified.									
160½	173	Vein predominantly quartz, high sulphides content,	92	85	90	5.0	0.70				
		primarily pyrite, some galena and sphalerite.	93	90	95	5.0	0.90				
173	183	Green volcanics - silicified to 179, minor	94	95	100	5.0	2.00				
		threads & nets of quartz, some purple volcanics	95	100	105	5.0	3.00				
		inclusions.	96	105	110	5.0	3.34				
			97	110	115	5.0	5.60				
			98	115	120	5.0	19.08	)			
			99	120	125	5.0	5.72	) 20'-	11.4 -	Ag	
			69900	125	130	5.0	13.26	)	1.65 -	Pb	
			01	130	135	5.0	11.44	)	2.43 -	Zn	
			02	135	140	5.0	7.70				
			03	140	145	5.0	1.50				
			04	145	150	5.0	0.50				

MORE TO FOLLOW

FORM T-12

COLLAR:
NORTH 6450.2
EAST 6688.2
ELEVATION 1029.9
AZIMUTH 137 degrees - 00'
DIP plus 70 degrees - 00'
LEVEL North Star Adit.

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. N.S. 10-U-49
COMMENCED February 6th, 1959
FINISHED February 11th, 1959
PURPOSE OF HOLE Exploration
North Star

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
173	183 (Cont'd).		69905	150	155	5.0	0.44				
			06	155	160	5.0	TR.				
			07	160	165	5.0	2.64				
			08	165	170	5.0	3.40				
			09	170	173	3.0	TR.				
		END OF HOLE									

FORM T-12

COLLAR:-
NORTH 6449.6
EAST 6688.8
ELEVATION 1029.9
AZIMUTH 137 degrees - 00
DIP plus 57 degrees - 00'
LEVEL North Star Adit.

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. N.S. 10-U-50
COMMENCED February 12th, 1959
FINISHED February 18th, 1959
PURPOSE OF HOLE EXPLORATION
NORTH STAR

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
0	2	Casing.	69910	57	67	10.0	0.68				
2	32	Greenstone - silicified, some silicified sections	11	194	200	6.0	4.26				
		of purple volcanics, minor threads and stringers	12	200	205	5.0	2.96				
		of quartz, and calcite.	13	205	210	5.0	3.64				
32	35	Purple volcanics.	14	210	215	5.0	1.44				
35	57	Greenstone - some silicification 35 - 37 & 51 - 57	15	215	220	5.0	2.84				
		Barite vein 37 - 39, Vein fragments 49½. 52 - 57.	16	220	225	5.0	13.78	)			
57	67	Vein, predominantly barite, some calcite, sparse	17	225	230	5.0	20.36	)			
		mineralization (galena @ 60).	18	230	235	5.0	49.88	) 20'-	21.76	- Ag	
								)	3.18	- Pb	
67	69	Greenstone - silicified and pyritized.	19	235	240	5.0	3.04	)	1.61	- Zn	
69	194	Green & purple volcanic breccia, some vein fragments,	20	240	245	5.0	0.66				
		quartz & calcite nets and stringers. Pyrite at	21	245	250	5.0	TR.				
		119, 1' lost core at 130 - 132. Calcite inclusion	22	250	255	5.0	0.70				
		144 - 145.									
194	241	Vein - quartz, barite, high sulphide, mainly									
		pyrite - fractured & gouged 194 - 199, consider-									
		able galena and sphalerite 221 - 235.									
241	267	Vein & greenstone mixed , greenstone silicified									
		and slightly pyritized.									
		END OF HOLE.									

FORM T-12

COLLAR:
NORTH 6373.4
EAST 6604.6
ELEVATION 1033.4
AZIMUTH 314 degrees 48'
DIP plus 59 degrees 30'
LEVEL North Star Adit

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO N. S. 10-U-52
COMMENCED February 25th, 1959.
FINISHED February 26th, 1959.
PURPOSE OF HOLE Exploration
North Star

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% PB	AG x W		
0	2	Casing	69959	2.0	8.0	6.0	2.00				
2	28	Vein: Predominantly barite, some quartz & calcite	60	8.0	13.0	5.0	0.72				
		some mineralization, galena @ 17½ - 21	61	13.0	18.0	5.0	1.44				
28	36	Dyke - dark & medium green mixed porphyritic.	62	18.00	23.0	5.0	1.06				
36	56	Vein - quartz barite well mineralized 48 - 55	63	23.0	28.0	5.0	1.56				
56	67	Greenstone - vein fragments 58 - 58.5 & 61 - 62.	64	36.0	41.0	5.0	5.40				
67	74	Dyke - dark green porphyritic	65	41.0	46.0	5.0	2.24				
74	77½	Greenstone - vein fragments @ 76½	66	46.0	51.0	5.0	4.08				
77½	92	Purple volcanics - minor quartz & calcite stringers	67	51.0	56.0	5.0	1.20				
92	100	Dyke - dark green porphyritic.									
100	107	Purple volcanics, minor quartz stringers, some									
		greenstone inclusions 105 - 107.									
		END OF HOLE									

FORM T-12

COLLAR:
NORTH 6375.5
EAST 6602.5
ELEVATION 1024.4
AZIMUTH 314 degrees 48'
DIP -25 degrees 00'
LEVEL North Star Adit

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO N. S. 10-U-53
COMMENCED February 26th, 1959.
FINISHED March 6th, 1959.
PURPOSE OF HOLE Exploration.
North Star.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ	% PB	AG X W		
0	2½	Grey volcanics silicified & pyritized.	69968	0	8	8.0	0.58				
2½	13	Vein predominantly barite, some quartz & calcite,	69	8	13	5.0	0.76				
		considerable sulphides 5' - 10' mainly pyrite,	70	17	22	5.0	Tr.				
		some sphalerite & galena.	71	22	27	5.0	2.00				
13	17	Dyke - light green porphyritic.	72	27	34	7.0	2.12				
17	34	Vein - predominantly barite face, mineralization	73	39	44	5.0	5.56				
		mainly pyrite, some sphalerite & galena	74	44	49	5.0	5.86				
34	39	Dyke - dark green porphyritic.	75	49	54	5.0	2.20				
39	57	Vein - predominantly barite. Some quartz & calcite,	76	54	57	3.0	1.26				
		some mineralization, - galena @ 47'	77	72	79	7.0	13.20				
57	72	Dyke - dark green, porphyritic.	78	87	92	5.0	0.92				
72	79	Vein - predominantly barite, fair mineralization	79	92	97	5.0	Tr.				
79	87	Dyke - light green porphyritic.	80	97	105	8.0	1.08				
87	143	Vein - predominantly barite, some quartz & calcite,	81	105	110	5.0	6.16				
		fair mineralization. 3½' lost core 128-132, 1½'	82	110	115	5.0	2.54				
		lost core 132-136, hole caved @ 129'	83	115	120	5.0	1.40				
		Hole cemented unsuccessfully	84	120	125	5.0	0.96				
		Hole wedged @ 100'	85	125	130	5.0	1.60				
143	156	Vein predominantly barite, fair mineralization,	86	130	136	6.0	0.76				
		mostly pyrite, minor sphalerite & galena.	87	136	143	7.0	2.00				
156	158	Dyke, medium green porphyritic	88	143	148	5.0	0.90				

MORE TO FOLLOW

FORM T-12

COLLAR:
NORTH 6375.5
EAST 6602.5
ELEVATION 1024.4
AZIMUTH 314 degrees - 48'
DIP -25 degrees - 00' @115' after wedge - 30 degrees
LEVEL North Star Adit

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO N. S. 10-U-53
COMMENCED February 26th, 1959.
FINISHED March 6th, 1959.
PURPOSE OF HOLE Exploration.
North Star.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ.	%Pb	AG X W		
158	184	Vein, quartz - barite mineralization good, mainly	69989	148	153	5.0	0.78				
		pyrite & sphalerite.	90	153	156	3.0	0.56				
184	189	Dyke - dark green porphyritic.	91	158	165	7.0	Tr.				
189	191½	Vein - quartz barite - sparce sulphides	92	165	170	5.0	0.68				
191½	194½	Dyke - dark green porphyritic.	93	170	175	5.0	Tr.				
194½	220	Vein - quartz - barite, minor sulphide, mainly	94	175	180	5.0	0.80				
		pyrite.									
220	230	Lost core - core barrel caught on wedge and wore	95	180	184	4.0	Tr.				
		out on drilling out - Hole stopped.	96	189	191	2.0	Tr.				
			97	195	200	5.0	Tr.				
		END OF HOLE	98	200	205	5.0	Tr.				
			99	205	210	5.0	Tr.				
			70000	210	215	5.0	0.72				
			50801	215	220	5.0	0.60				

FORM T-12

COLLAR:
NORTH 6303.19
EAST 6678.11
ELEVATION 1036.33
AZIMUTH -
DIP plus 90 degrees
LEVEL North Star X-Cut

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO N. S. 10-U-60
COMMENCED April 22nd, 1959.
FINISHED April 23rd, 1959.
PURPOSE OF HOLE Exploration.
North Star.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO	FROM	TO	WIDTH	AG OZ	%PB	AG X W		
0	2	Casing.	63057	118	120	2.0	0.94				Composite 130-159.5
2	87½	Grey, green & purple volcanics mixed minor thread	58	120	125	5.0	1.40				Ag. - 10.56 oz/T.
		& stringers of quartz & calcite.	59	125	130	5.0	Tr.				Au. - 0.01 oz/T.
87½	118	Green volcanic breccia primarily calcite inclusions.	60	130	135	5.0	5.12				Pb. - 0.4%
118	146	Vein - calcite - barite, some quartz 135 - 146,	61	135	140	5.0	11.06				Zn. - 2.3%
		sparse mineralization, some galena 122 - 124	62	140	145	5.0	8.84				
146	159½	Vein - quartz - barite - some jasper, good mineral-	63	145	150	5.0	17.20				
		ization pyrite, sphalerite & galena. High pyrite	64	150	155	5.0	3.76				
		146 - 148. Considerable sphalerite & high galena	65	155	159½	4.5	18.72				
		152½ - 159½.									
159½	172	Green & purple volcanics mixed slightly altered.									
		Evidence of faulting 160½ 0 162.									

FORM T-12

COLLAR:
NORTH 6303.0
EAST 6679.8
ELEVATION 1036.3
AZIMUTH 133 degrees 06'
DIP plus 69 degrees 15'
LEVEL North Star Adit.

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO N. S. 10-U-61
COMMENCED April 24th, 1959.
FINISHED April 29th, 1959.
PURPOSE OF HOLE Exploration.
North Star

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% PB	AG X W		
0	2	Casing	63066	117	118	1.0	Tr.				Composite 235.5-276
2	155	Green purple & grey volcanics mixed minor stringers	67	155	160	5.0	Tr.				Ag. - 31.18 oz/T.
		& threads of quartz & calcite. Larger stringers	63068	235½	240	4.5	28.00				Au. - 0.01 oz/T.
		1" - 3" 139 - 153. 1' - 0 vein stringer predomi-									Pb. - 0.2%
		nantly calcite 117 - 118.	69	240	245	5.0	26.66				Zn. - 2.5%
155	160	Vein - calcite, barite, poor mineralization some	70	245	250	5.0	6.00				
		greenstone inclusions.	71	250	254	4.0	2.60				
160	183	Green and purple volcanics, mixed calcite stringers	72	254	259	5.0	2.66				
		& inclusions 160 - 165.	73	259	264	5.0	42.84				
183	194	Green volcanics, minor threads and stringers of	74	264	269	5.0	66.00				
		calcite. Evidence of minor fault @ 192	75	269	276	7.0	53.60				
194	201	Green volcanics & calcite mixed minor pyritization.	76	276	280	4.0	3.00				
201	206	Silicified green volcanics.									
206	235.5	Green volcanics, stringers of quartz & calcite from									
		216.									
235.5	276	Vein - quartz-barite good mineralization mostly									
		pyrite some galena & sphalerite, some greenstone									
		inclusions 256-262. High galena @ 262 & 265½ -									
		267 & 275 - 276.									
		MORE TO FOLLOW									

FORM T 12

COLLAR
NORTH 6303.0
EAST 6679.8
ELEVATION 1036.3
AZIMUTH 133 degrees 06'
DIP plus 69 degrees 15'
LEVEL North Star Adit.

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO N. S. 10-U-61
COMMENCED April 24th, 1959.
FINISHED April 29th, 1959.
PURPOSE OF HOLE Exploration.
North Star.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% PB	AG X W		
276	285	Green volcanics, silicified & pyritized.									
285	291	Green & purple volcanics mixed.									
		END OF HOLE.									

FORM T-12

COLLAR:-
NORTH 6306.2
EAST 6681.7
ELEVATION 1035.8
AZIMUTH 43 Degrees 06'
DIP plus 66 Degrees 00'
LEVEL North Star Adit

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. N.S. 10-U-62
COMMENCED April 30th, 1959
FINISHED May 2nd, 1959
PURPOSE OF HOLE Exploration
NORTH STAR

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
0	2	Casing.	63077	99	1.05	6.0	1.00				Composite 163' to 205'.
2	87	Purple volcanics with minor green & grey volcanics	78	135	140	5.0	0.48				
		minor stringers and threads of quartz and calcite. Evidence of faulting 86' - 86.5'.	79	140	145	5.0	5.12				
			80	145	150	5.0	1.80				
87	99	Green & purple volcanics, silicified & pyritized	81	150	155	5.0	2.24				
		with vein stringers and inclusions of vein, predominantly calcite.	82	155	160	5.0	1.20				
99	105	Mainly quartz containing pyrite with few specks of	83	160	163	3.0	2.40				
		chalcopyrite.	84	163	168	5.0	18.24				
105	135.5	Grey and green volcanics locally silicified and	85	168	173	5.0	5.46	15' -	11.37		
		showing brecciation between 105' and 114'. Quartz and calcite stringers and threads numerous but no	86	173	178	5.0	10.40				COMPOSITE
		sulphide minerals.	87	178	183	5.0	4.64			42' -	8.4 Ag. Tr. AU. 0.7 Pb. 1.9 Zn.
135.5	156	Vein - mainly quartz but with considerable barite	88	183	188	5.0	4.32				
		and carbonates. Silicified greenstone inclusions between 136' and 141'. Scattered pyrite and galena,	89	188	193	5.0	8.80				
		with local concentrations of galena at 143' and 146'. Low sphalerite content and few specks of	90	193	198	5.0	11.44				
		chalcopyrite. No silver minerals noted.	91	198	205	7.0	5.70				
			92	205	209	4.0	TR.				
156	205	Vein - similar to 135.5' - 156', but with more									
		quartz, less barite and carbonates and more sulphide minerals. Quartz is grey, very hard and									

FORM T-12

COLLAR:-
NORTH 6306.2
EAST 6681.7
ELEVATION 1035.8
AZIMUTH 43 Degrees 06'
DIP plus 66 Degrees 00'
LEVEL North Star Adit

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. N.S. 10-U-62
COMMENCED April 30th, 1959
FINISHED May 2nd, 1959
PURPOSE OF HOLE Exploration
NORTH STAR.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
		(continued)	SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
156	205	appears to contain finely divided sulphides in the darker sections. High galena and sphalerite 191.5' to 194'. General increase in sulphide content after 175'. Some fine, grey specks and threads which could be tetrahedrite.									
205	209	Soft green and grey altered wall rock containing sericite and fine pyrite. Occasional harder silicious patches.									
209	215	Silicified and slightly pyritized greenstone, grading to unaltered green and grey volcanics, showing few threads of quartz and calcite.									
		END OF HOLE									

FORM T-12

COLLAR:
NORTH 6232.8
EAST 6753.0
ELEVATION 1034.8
AZIMUTH 133 degrees 06'
DIP plus 76 degrees
LEVEL North Star Adit

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO N. S. 10-U-69
COMMENCED June 9th, 1959.
FINISHED June 16th, 1959.
PURPOSE OF HOLE Exploration.
North Star.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% PB	AG X W		
0	2	Casing									
2	135	Green & purple volcanics mixed minor threads and stringers of quartz & calcite. Visible galena in stringer @ 30.5, visible sphalerite in stringer @ 35, some alteration & pyritization 44.5 to 45.5, visible sphalerite in stringer @ 59.3, well-mineralized 2" stringer @ 67 mostly pyrite; silicified & bleached 78-81; 86 - 86.5 & @ 91. 2' lost core 84 - 86, minor bleaching 99 - 102, vuggy stringers @ 109 & 113.									
135	141	Vein - calcite - barite - quartz well mineralized with galena, sphalerite & pyrite, some greenstone inclusions.	63144	135	141	6.0	Tr.				
141	255	Green volcanics minor threads & stringers of quartz & calcite, minor bleaching @ 148 & 162 - 163, & 181 - 182. Highly altered & bleached from 185.5 - 186. 6" stringer with visible sphalerite 190 - 190.5, visible sphalerite @ 226 & @ 250.									
255	263	Green volcanic breccia, some pyritization & silicification.									
263	272.5	Vein - quartz-calcite barite, good mineralization mostly pyrite, fair galena minor sphalerite.	63145 63146	263 268	268 272.5	5.0 4.5	3.92 31.90				Composite
272.5	435	Green and purple volcanic breccia. Core broken 278 - 282 chloritic 281 - 282 (probable fault) bleached 331 - 341½. Core broken 344 - 347, gouge 346 - 347 probable fault, lineation @ 20° to core; core broken 352 - 354, bleached and altered sections from 357 - 435, broken core 394 - 395. END OF HOLE.									Ag. 17.08 Au. Tr. Pb. 0.9 Zn. 1.3

FORM T-12

COLLAR:
NORTH 6232.8
EAST 6753.0
ELEVATION 1034.8
AZIMUTH 133 degrees 06'
DIP plus 76 degrees
LEVEL North Star Adit

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO N. S. 10-U-69
COMMENCED June 9, 1959.
FINISHED June 16, 1959.
PURPOSE OF HOLE Exploration
North Star

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO	FROM	TO	WIDTH	AG OZ	% Pb	AG X W		
		Additional Samples									
		Brecciated, silicified and pyritized green volcanics	63149	256.5	259.0	2.5	Tr.				
		Samples assayed at request of Dr. Brown	63150	259.0	263.5	4.5	Tr.				

TORBRIT MINE

The Torbrit mine is immediately across the canyon valley of the Kitsault river from the Dolly Varden and North Star properties, and apparently is part of the same general zone of silver mineralization.

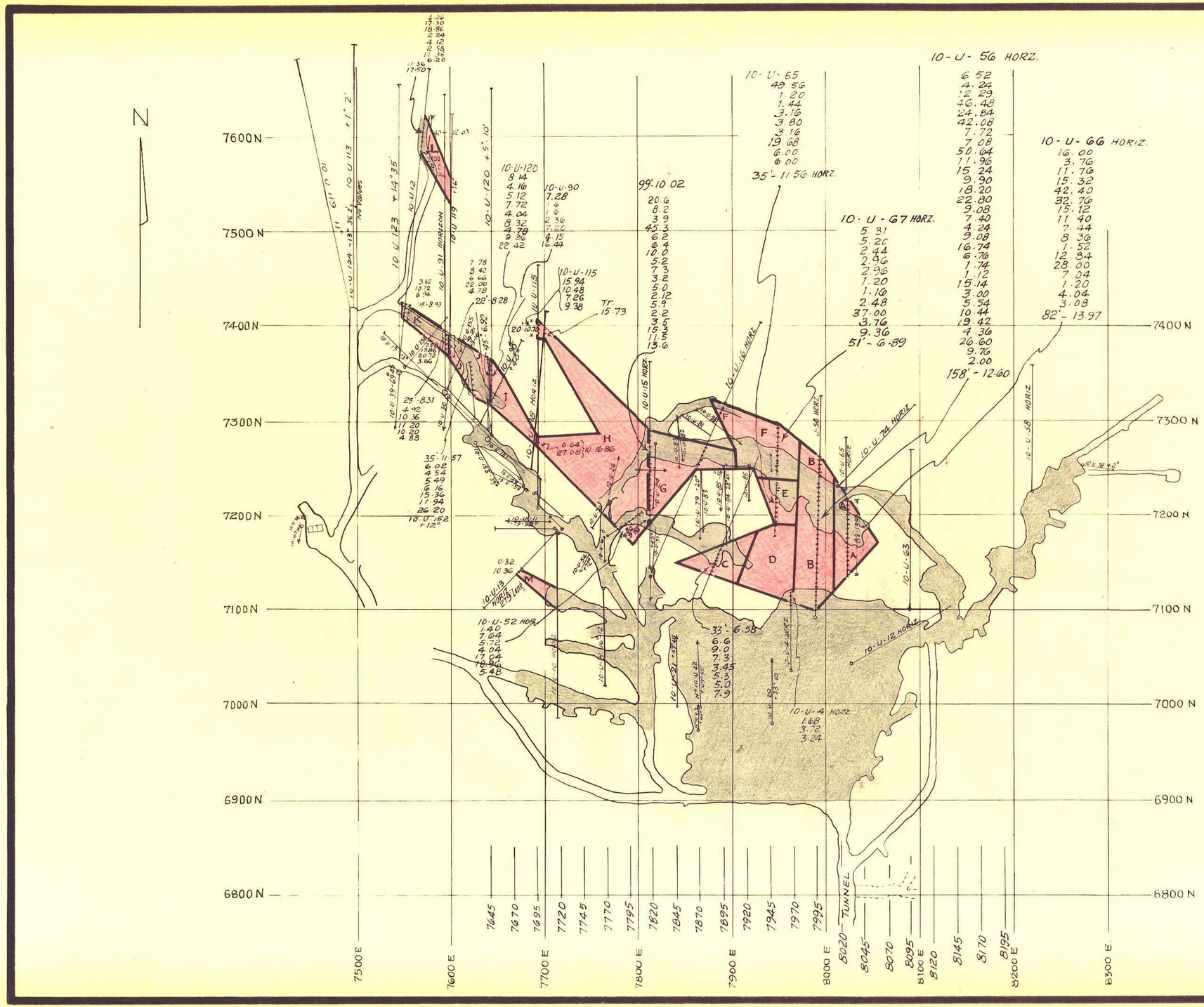
A small mill was constructed in the middle 1920's on the Toric claim but this quickly closed due to lowering of silver prices and the mine was inactive from 1930 until 1946.

Torbrit Silver Mines Ltd. was formed in 1946 and a 400-ton mill was built and completed in 1949. Between then and 1957 the average grade of the ore was 17.2 ounces of silver and 0.42% lead per ton. Grade dropped off in 1958. The total production of the Torbrit mine was 1,377,832 tons. yielding $16,797,057, giving the company a profit of $3,489,352 in cash returned. At today's silver prices an additional operating profit of about $9,000,000 would have been achieved.

Undoubtedly, much ore remains in the Torbrit mine in the original workings and to both the east and west of the known orebody. Mining of this orebody in both directions ceased against clusters of dykes cutting across the ore. There has been almost no work done beyond the dyke clusters and there seems to be no reason for the ore to have been cut off as the dykes are post-ore.

TORBRIT SILVER MINES LTD. - ANNUAL OPERATING RECORDS

Date	Tons Milled	Silver oz. Produced	Silver Oz./Ton	Lead Lbs. Produced	Lead Lbs/Ton	Expenditures	$/Ton	Total Cash Increase	Cash/Ton	¢/oz. Price of Silver	Total Revenue	$/Ton
Started February- 1949	99,670	1,547,838	15.5	383,798	3.8	984,027	$ 9.87	$ 253,674	2.53		$ 1,237,701	$12.40
1950	130,290	2,293,022	17.6	1,004,194	7.0	1,464,032	11.23	561,844	4.17		2,025,876	15.40
1951	119,711	2,051,190	15.1	833,425	7.0	1,541,912	12.88	572,739	4.72	89.368	2,114,651	17.60
1952	135,761	2,346,651	17.0	1,015,040	7.1	1,749,986	12.88	376,637	2.82	84.941	2,126,623	15.70
1953	May-Oct. Strike 71,862	1,176,759	16.3	519,035	7.2	801,121	11.14	271,095	3.78	85.188	1,072,218	14.82
1954	150,235	2,063,590	13.8	972,263	6.5	1,254,673	8.35	591,576	3.88	85.250	1,846,250	12.31
1955	151,863	1,819,592	11.9	1,128,833	7.5	1,372,828	9.04	414,639	2.82	89.099	1,787,467	11.86
1956	134,652	1,562,437	11.7	1,051,376	7.9	1,388,613	10.31	177,958	1.31	90.826	1,566,571	11.62
1957	154,419	1,674,166	10.9	1,466,066	9.4	1,480,624	9.58	203,279	1.33	90.820	1,683,903	10.91
1958	135,892	1,331,088	8.2	1,506,849	11.1	1,269,706	9.35	65,911	.53	89.044	1,335,617	9.88
			Average		Average							
All Time	1,377,832	18,706,847	13.5	10,772,575	7.8			$3,489,352			$16,797.057	



RESERVES

	O	S	R (Ft²)	Oz. Ag.
A	2,820	1,175	1,655	13.97
B	6,290	1,700	4,590	11.54
C	2,042	550	1,492	6.58
D	3,500	50	3,450	7.77
E	1,536	672	864	11.56
F	4,478	1,972	2,506	7.16
G	4,333	2,130	2,203	8.17
H	13,216	950	12,266	9.71
I	6,000	1,200	4,800	9.52
J				
K				
L			2,100	9.0

inches 0 1
0 1 2 centimetres

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

DOLLY VARDEN MINES LTD (N.P.L.)

TORBRIT MINE LEVEL PLAN

1,000' LEVEL

SCALE 0 100 FEET

WOLF MINE

The Wolf mine is a series of veins or vein-lodes which appear to be faulted sections of perhaps three different veins.

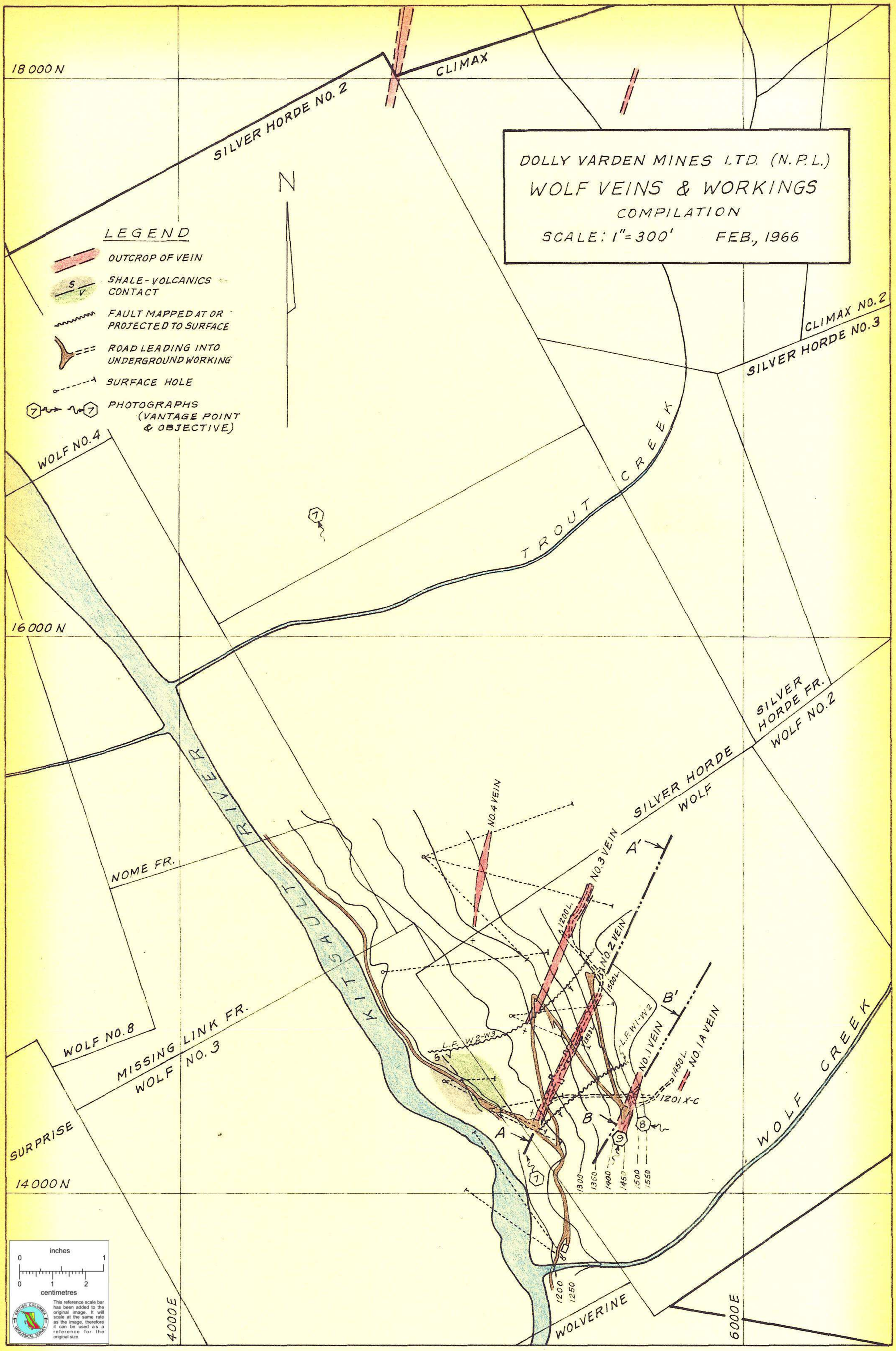
The most extensively developed is the vein or zone known as the Wolf #2. This is limited at each end by a limiting fault. The block between the faults being approximately 600 feet long. The values grade out eastward from a sharp wall along which fairly high-grade ore occurs. The assay plan presented here shows a shaded area of suggested ore width for a relatively high-grade operation. Determination of the assay wall on the east side is one of calculation as to width and grade desired.

The south end of the Wolf #2 appears to have been faulted eastwards and to occur again as the Wolf #1. The #1 is a wide and strong lode. The faulted distance is about 600 feet.

In attempting to pick up the #2 Wolf north of the northern limiting fault, two additional veins were found, Nos. 3 & 4. They contain low values and do not have an appearance similar to the #2 Wolf.

The Wolf veins are all in volcanics but immediately to the west a shale bed appears in two surface holes on the South side of the northern limiting fault. The true throw and faulted position of the Wolf #2 could be found by diamond drilling north of the fault, using the shale bed as a marker.

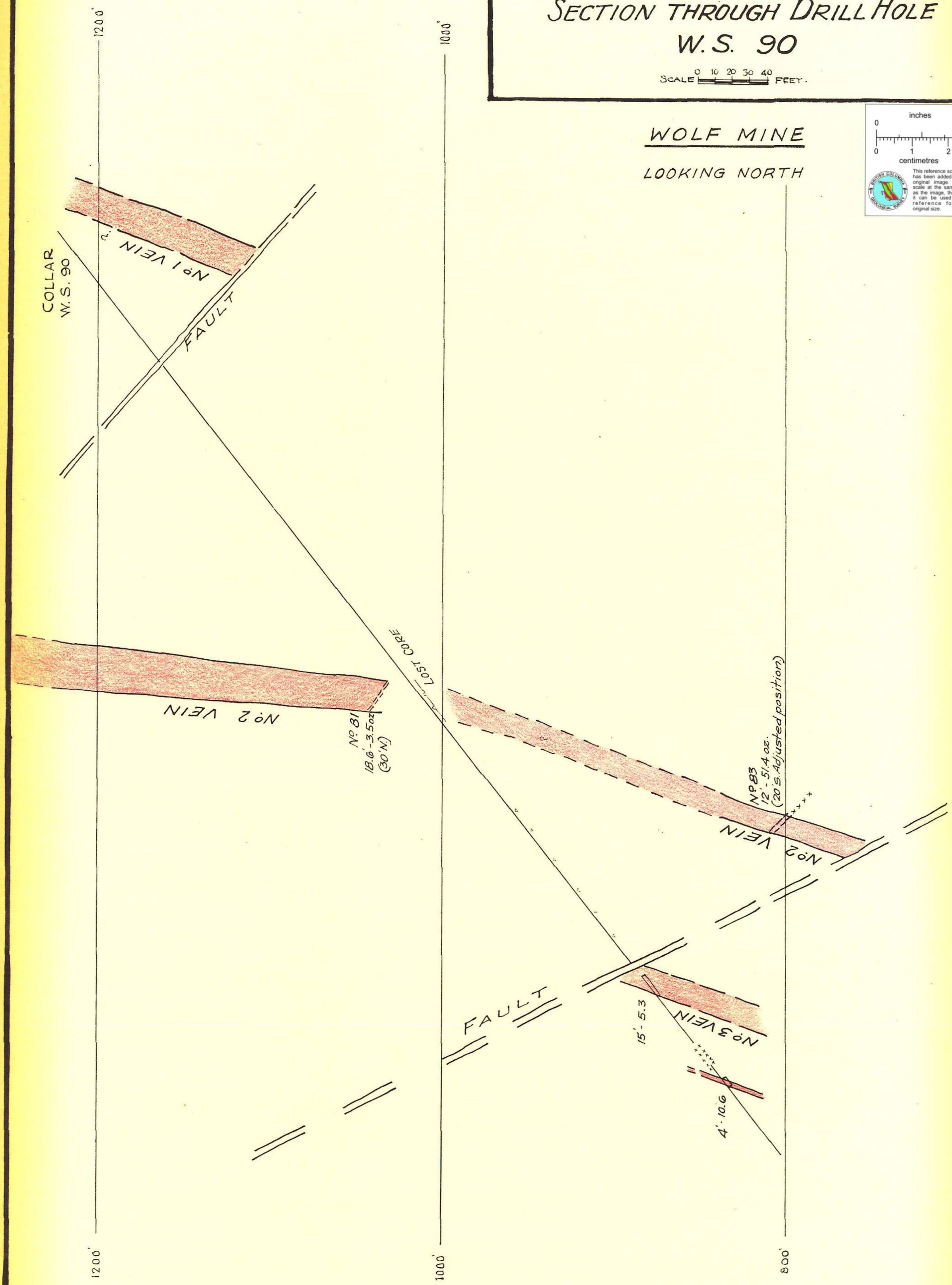
No work has been done on possible extensions of the Wolf zone either north or south. The exploration work started on the Wolf No.'s 1 and 2, which outcropped, and thus gave starting points for the exploration work. Insufficient money has been spent or studies made to do enough exploratory work to outline the extensions of the Wolf ore zones.


DOLLY VARDEN MINES LTD. (N.P.L.)
WOLF VEINS & WORKINGS
COMPILATION
SCALE: 1"=300'
FEB., 1966
LEGEND
OUTCROP OF VEIN
SHALE-VOLCANICS CONTACT
FAULT MAPPED AT OR PROJECTED TO SURFACE
ROAD LEADING INTO UNDERGROUND WORKING
SURFACE HOLE
PHOTOGRAPHS (VANTAGE POINT & OBJECTIVE)
N
18 000 N
16 000 N
14 000 N
4000 E
6000 E
CLIMAX
SILVER HORDE NO. 2
CLIMAX NO. 2
SILVER HORDE NO. 3
WOLF NO. 4
TROUT CREEK
SILVER HORDE FR.
WOLF NO. 2
SILVER HORDE
WOLF
NO. 4 VEIN
NO. 3 VEIN
NO. 2 VEIN
NO. 1 VEIN
NO. 1A VEIN
NOME FR.
KILTAULT RIVER
WOLF NO. 8
MISSING LINK FR.
WOLF NO. 3
SURPRISE
WOLVERINE
WOLF CREEK
L.F. W2-W3
L.F. W1-W2
1200 L.
1500 L.
1350 L.
1450 L.
1201 X-C
1300
1350
1400
1450
1500
1550
1200
1250
A
A'
B
B'
inches
0
1
2
centimetres
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.
BRITISH COLUMBIA GEOLOGICAL SURVEY

DOLLY VARDEN MINES LTD. (N.P.L.)

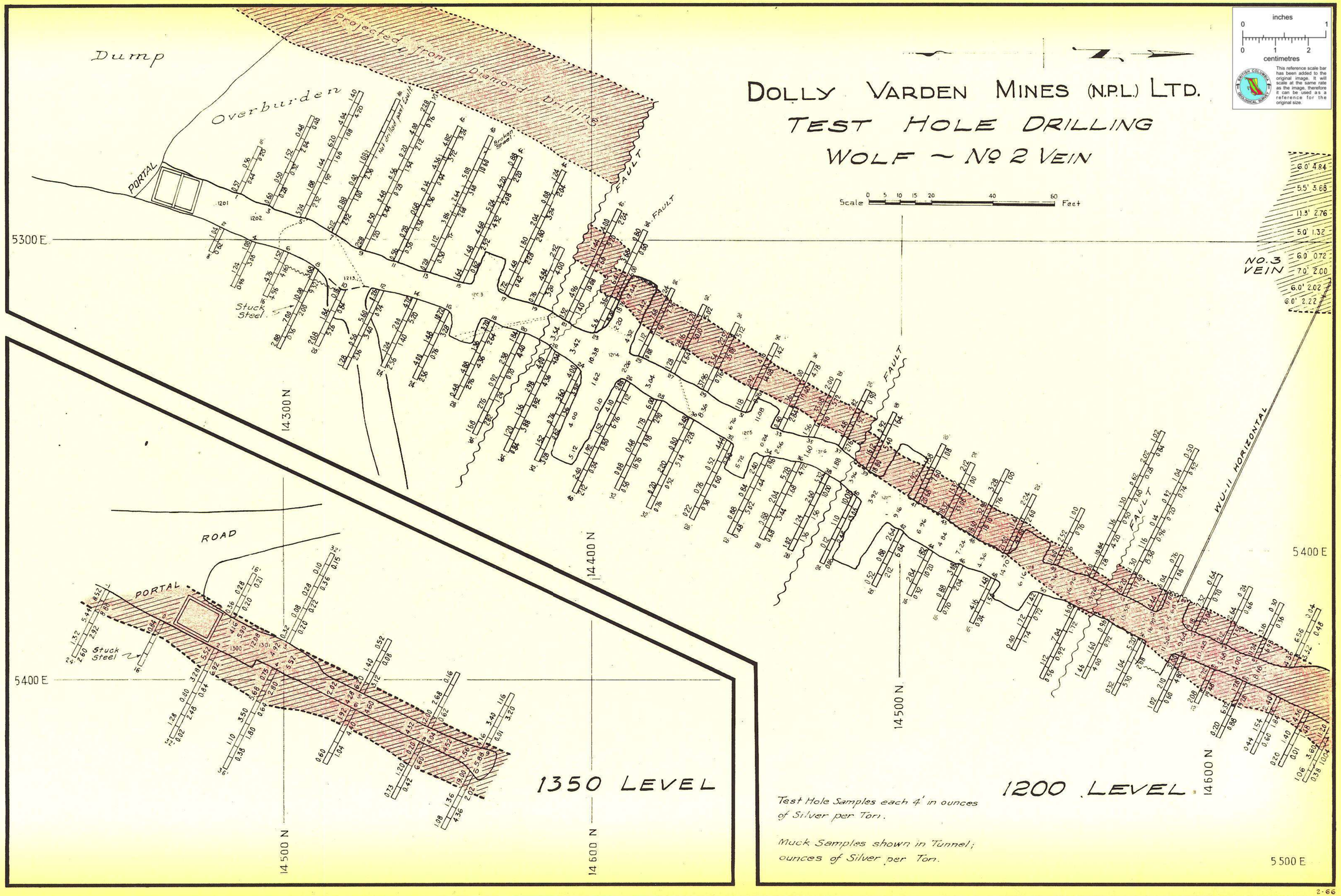
SECTION THROUGH DRILL HOLE W.S. 90

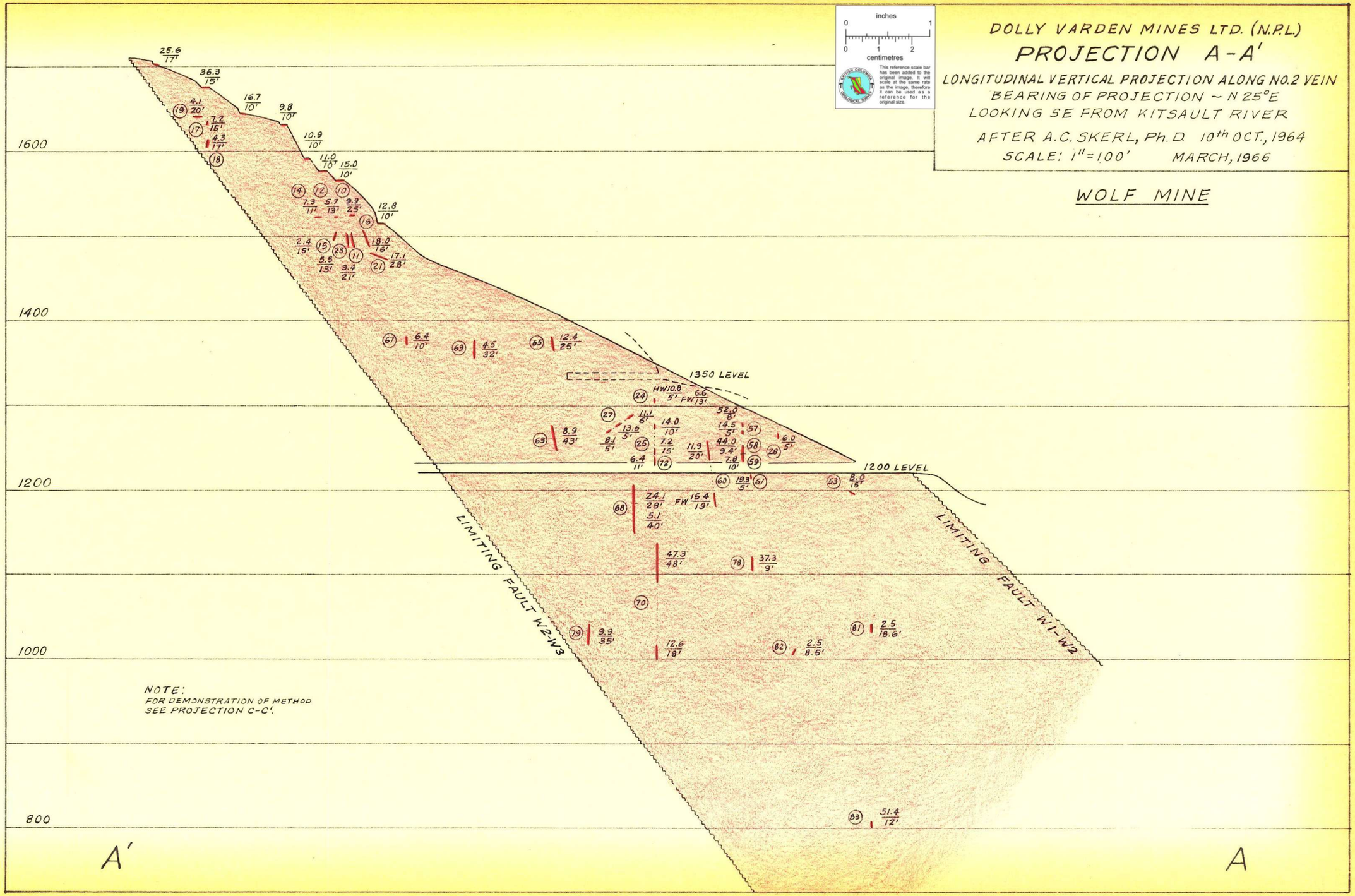
SCALE 0 10 20 30 40 FEET.



inches 0 1
0 1 2 centimetres
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

LE
3·66

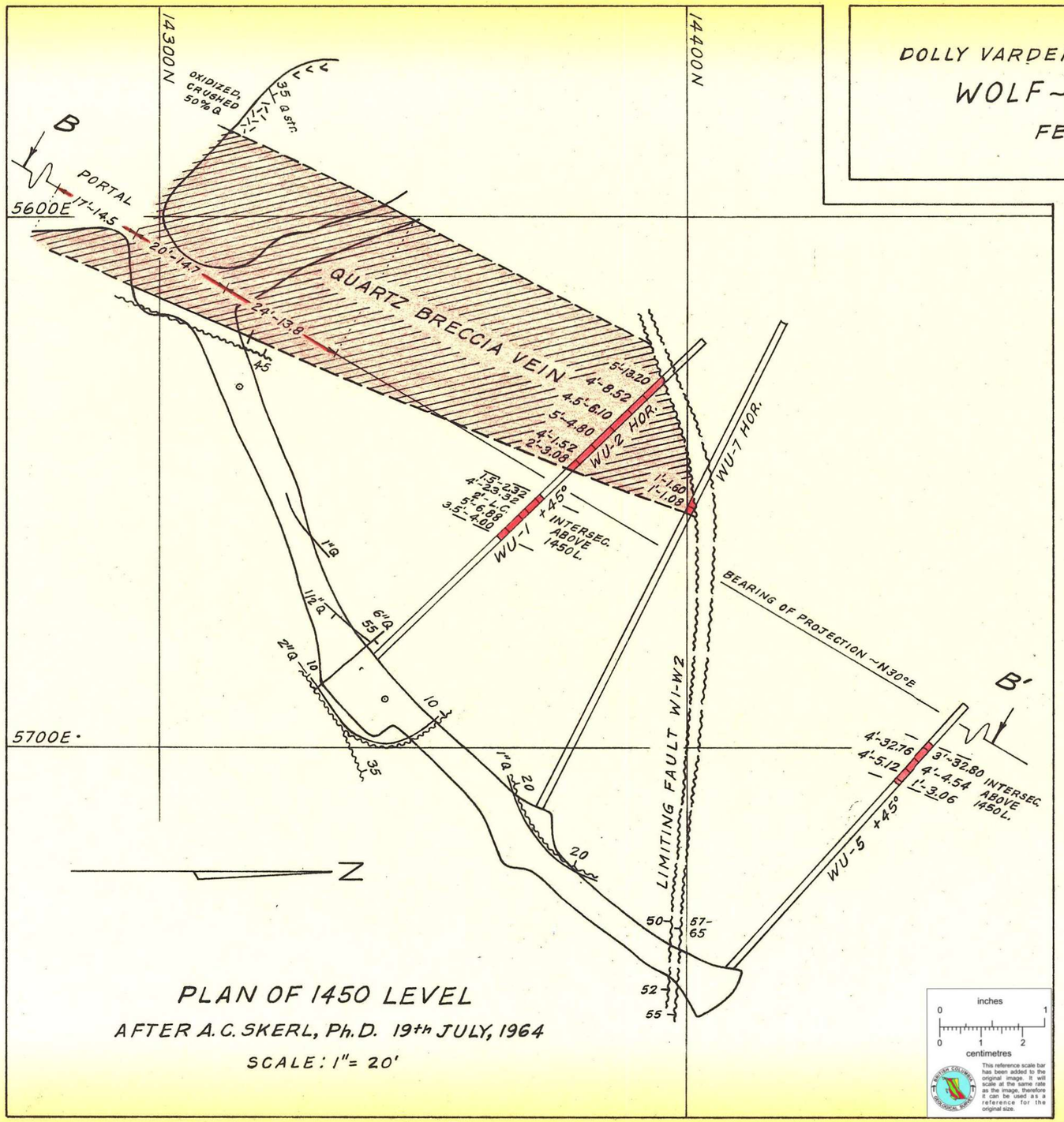

DOLLY VARDEN MINES (N.P.L.) LTD.
TEST HOLE DRILLING
WOLF ~ No 2 VEIN
Scale 0 5 10 15 20 40 60 Feet
inches
0 1
0 1 2
centimetres
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.
Projected from Diamond Drilling
Dump
Overburden
PORTAL
Stuck Steel
FAULT
5300 E
14300 N
14400 N
14500 N
14600 N
5400 E
5500 E
NO.3 VEIN
WU-II HORIZONTAL
ROAD
1350 LEVEL
1200 LEVEL
Test Hole Samples each 4' in ounces of Silver per Ton.
Muck Samples shown in Tunnel; ounces of Silver per Ton.


DOLLY VARDEN MINES LTD. (N.P.L.)
PROJECTION A-A'
LONGITUDINAL VERTICAL PROJECTION ALONG NO.2 VEIN
BEARING OF PROJECTION ~ N 25°E
LOOKING SE FROM KITSAULT RIVER
AFTER A.C. SKERL, Ph.D. 10th OCT., 1964
SCALE: 1" = 100'
MARCH, 1966
WOLF MINE
inches
centimetres
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.
1600
1400
1200
1000
800
1350 LEVEL
1200 LEVEL
LIMITING FAULT W2-W3
LIMITING FAULT W1-W2
NOTE:
FOR DEMONSTRATION OF METHOD
SEE PROJECTION C-C'.
A'
A

DOLLY VARDEN MINES LTD. (N.P.L.)

WOLF ~ NO. 1 VEIN

FEB., 1966

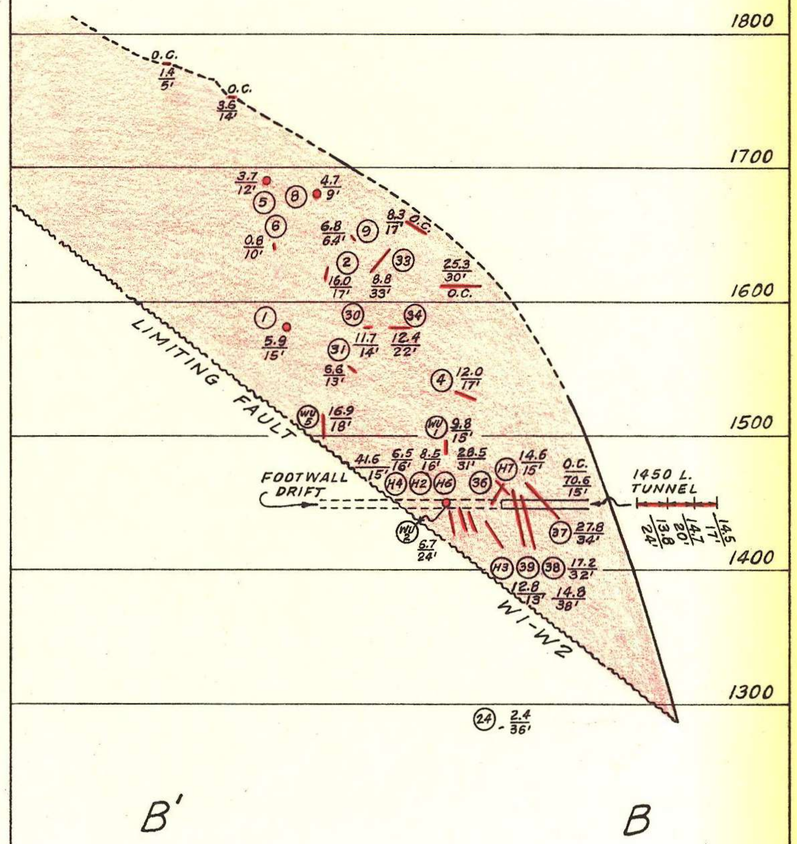


PLAN OF 1450 LEVEL

AFTER A.C. SKERL, Ph.D. 19th JULY, 1964

SCALE: 1" = 20'

NOTE:
FOR DEMONSTRATION OF METHOD
SEE PROJECTION C-C'.



PROJECTION B-B'

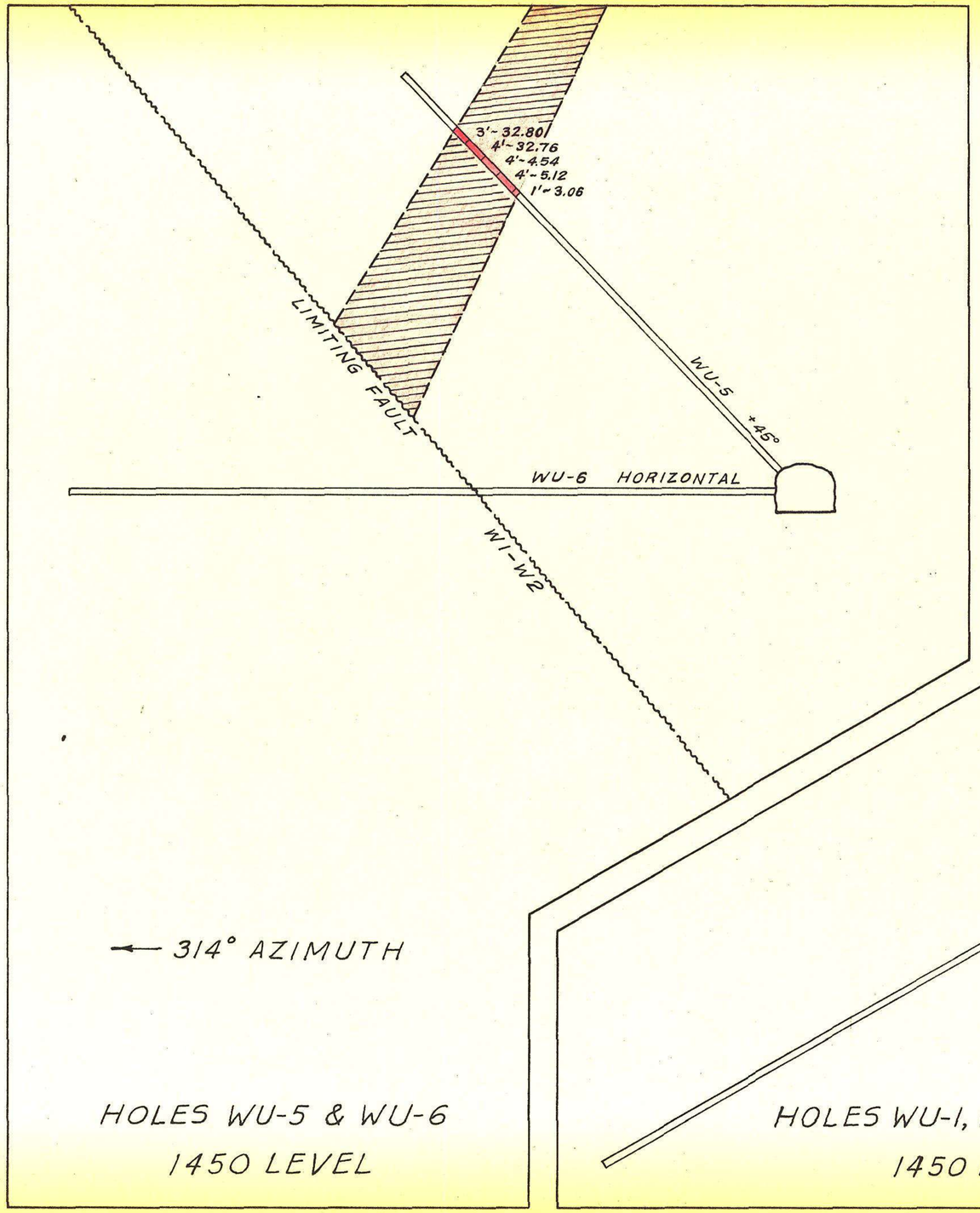
LONGITUDINAL VERTICAL PROJECTION ALONG NO. 1 VEIN

BEARING OF PROJECTION ~ N30°E

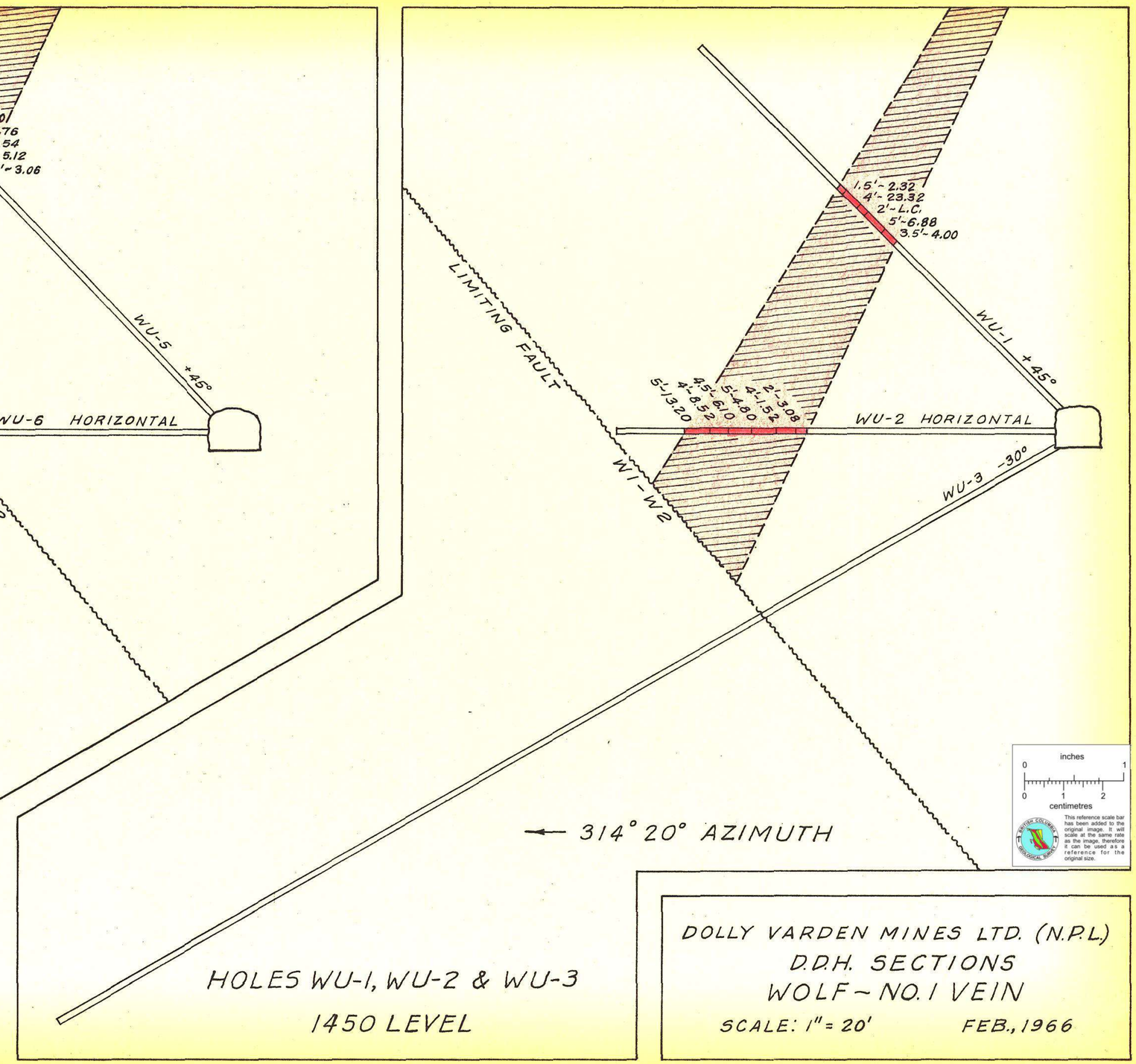
LOOKING SE FROM KITSAULT RIVER

AFTER A.C SKERL, Ph.D. MAY, 1964

SCALE: 1" = 100'



HOLES WU-5 & WU-6
1450 LEVEL



HOLES WU-1, WU-2 & WU-3
1450 LEVEL

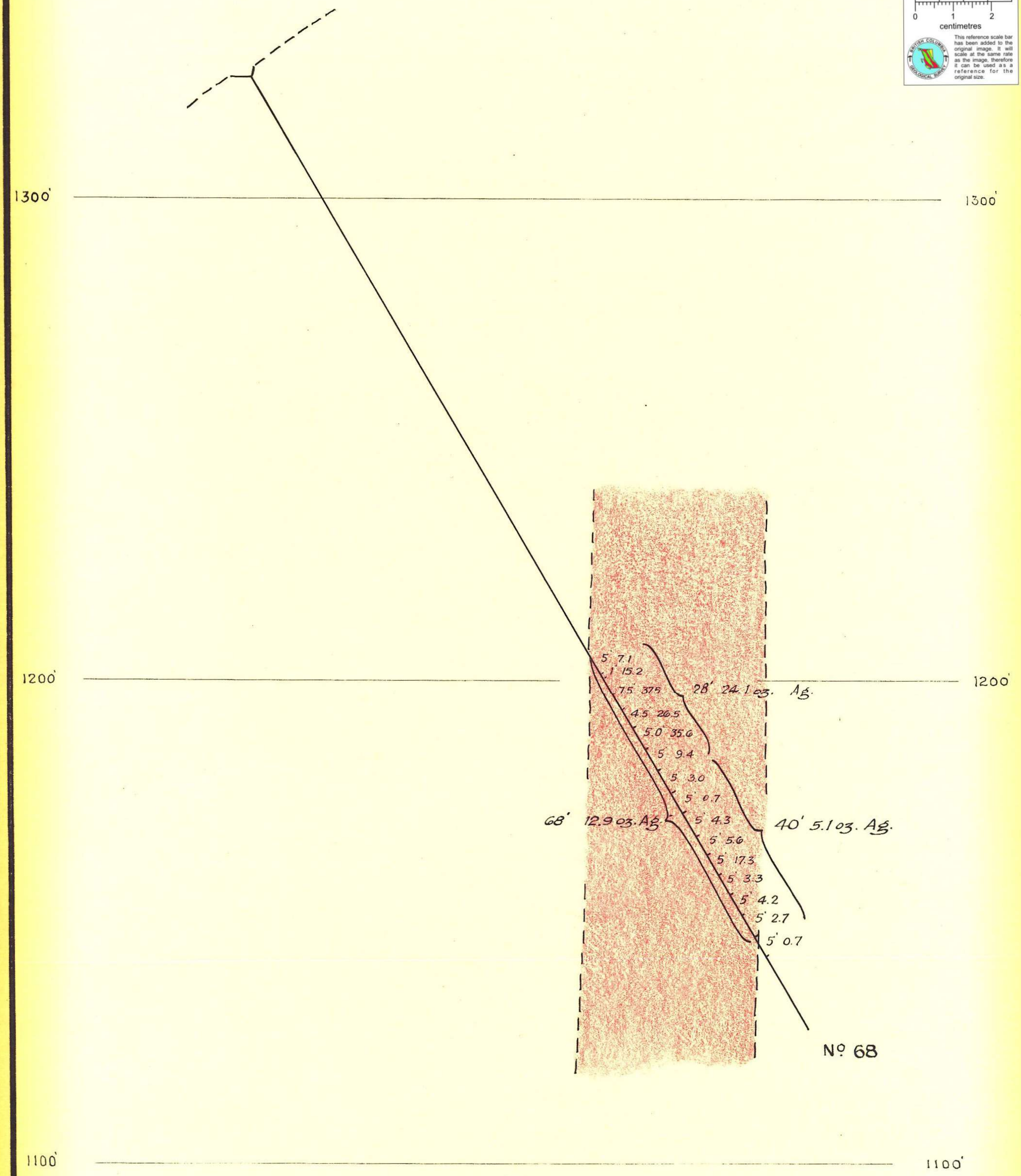
inches
0 1
0 1 2
centimetres
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

DOLLY VARDEN MINES LTD. (N.P.L.)
D.D.H. SECTIONS
WOLF ~ NO. 1 VEIN
SCALE: 1" = 20' FEB., 1966

DOLLY VARDEN MINES LTD. (N.P.L.)

SECTION LOOKING NORTH
WOLF DIAMOND DRILL HOLE W.S. 68

SCALE 0 5 10 15 20 FEET.



inches
0 1
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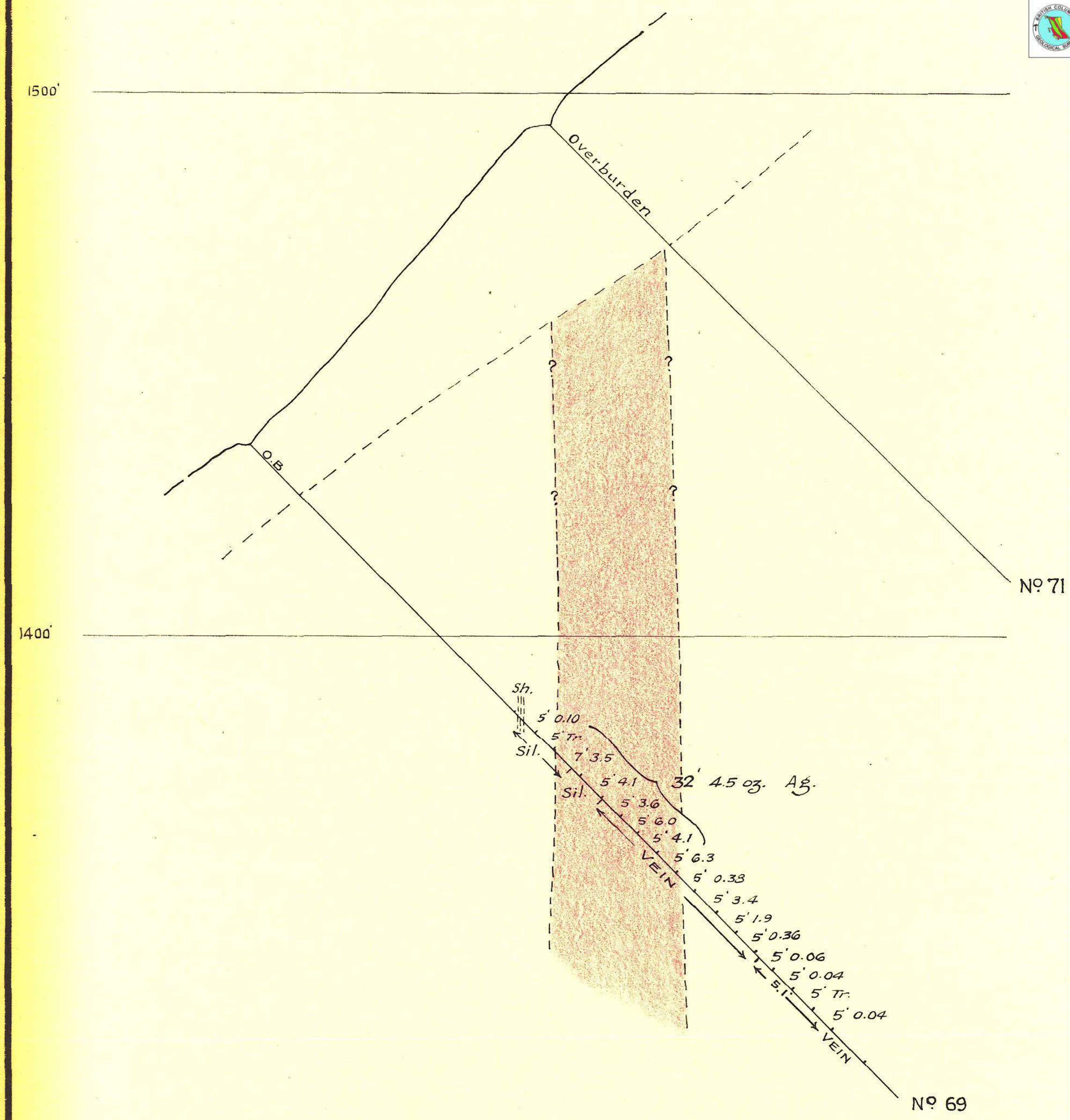
centimetres
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

DOLLY VARDEN MINES LTD. (N.P.L.)

SECTION LOOKING NORTH
WOLF DIAMOND DRILL HOLE W.S. 69

SCALE 0 5 10 15 20 FEET



inches 0 1
0 1 2 centimetres

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

L.E.
2-66

FORM T-12

COLLAR:
NORTH 14,338.24
EAST 5,685.72
ELEVATION 1,445.18
AZIMUTH
DIP 45 degrees
LEVEL 1,450

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W.U. 1
COMMENCED December 16, 1963
FINISHED January 24, 1964
PURPOSE OF HOLE Exploration Wolf No. 1 Vein

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
0	39.0	Grey fragmental volcanics with quartz threading and stringers. Possibly weak faulting at 12.5'. Shearing at 24.5' - 28.5', some oxidation.									
39.0	40.5	Broken core, oxidation and faulting									
40.5	44.5	Grey breccia, well silicified quartz and calcite threading and banding. No visible mineral.									
44.5	45.5	Broken core. Faulting or shearing.									
45.5	47.0	Grey volcanic breccia, well silicified.									
47.0	55.5	Vein quartz, mineralized with marcasite.	1255	47.0	50.5	3.5	4.00				
55.5	57.5	Lost core.	1256	50.5	55.5	5.0	6.88				
57.5	61.5	Vein quartz with marcasite.	1257	2.0 lost core 57.5	61.5	4.0	23.32	(check assay 23.64)			
61.5	63.0	Vein blending into grey volcanic breccia.	1258	61.5	63.0	1.5	2.32				
63.0	71.0	Dark grey volcanic breccia. Quartz stringers. Slightly mineralized with marcasite.									
71.0	79.0	Light grey fragmental volcanics. Slight shearing and oxidation at 71'. Vug and oxidation at 72.7'.									
79.0	90.0	Dark grey fragmental volcanics with quartz threading.									
90.0	91.5	Broken core. Dark grey fragmental volcanics. 6" lost.									

FORM T-12

COLLAR:
NORTH 14,338.24
EAST 5,685.72
ELEVATION 1,445.18
AZIMUTH
DIP 45 degrees
LEVEL 1,450

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W.U. 1
COMMENCED December 16, 1963
FINISHED January 24, 1964
PURPOSE OF HOLE Exploration Wolf No. 1 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
91.5	102	Dark grey volcanic breccia. Broken core at 95.5' - 98'. 2' missing. Some oxidation. Grounded and broken core from 101 - 102. 6" missing.									
		End of Hole.									

FORM T-13

COLLAR:-
NORTH 14,339.86
EAST 5,685.15
ELEVATION 1,441.00
AZIMUTH 314 20'
DIP 0 degrees
LEVEL 1,450

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W.U. 2
COMMENCED January 24, 1964
FINISHED January 27, 1964
PURPOSE OF HOLE Exploration Wolf #1 Vein

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
0	4.5	Volcanic breccia, quartz stringers and threading.									
4.5	5.0	Quartz bands, broken core, oxidized volcanic breccia. Slight faulting shows.									
5.0	32.0	Grey volcanic breccia, quartz and calcite stringers.									
32.0	39.0	Broken core at 36'. Grey fragmental volcanic with sprinkling of quartz.									
39.0	40.5	Broken core with some oxidation.									
40.5	50.0	Grey fragmental volcanic. Broken core at 45.5' to 46.5' and between 48' - 50'. A few small quartz stringers.									
50.0	52.0	Silicified grey volcanic breccia merging into vein matter.	1259	50.0	52.0	2'					Assays to be forwarded later when power is on.
52.0	69.5	Vein.	1260	52.0	56.0	4'					
		Vein.	1261	56.0	61.0	5'					
		Vein.	1262	61.0	65.5	4.5'					
		Vein.	1263	65.5	69.5	4'					
		Vein.	1264	69.5	74.5	5'					
74.5	75.5	Vein matter merging into grey volcanic breccia.	1265	74.5	75.5	1'					
75.5	78.5	Major fault, oxidized breccia and grey mud.									

FORM T-12

COLLAR:-

NORTH 14,339.86
EAST 5,685.15
ELEVATION 1,441.00
AZIMUTH 314 20'
DIP 0 degrees
LEVEL 1,450

DOLLY VARDEN MINES LIMITED

(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W.U. 2
COMMENCED January 24, 1964
FINISHED January 27, 1964
PURPOSE OF HOLE Exploration Wolf #1 Vein

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG. X W.		
78.5	82.0	Grey fragmental volcanic. 4" dyke at 81.6' - 82'.									
82.0	88.0	Grey fragmental volcanic.									
		End of Hole.									

FORM T-12

COLLAR:-
NORTH 14,340.01
EAST 5,684.99
ELEVATION 1,437.44
AZIMUTH 315 degrees
DIP -30 degrees
LEVEL 1,450

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W.U. 3
COMMENCED January 27, 1964
FINISHED January 31, 1964
PURPOSE OF HOLE Exploration Wolf #1 Vein

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG. X W		
0	7.0	Light grey volcanic breccia. Some quartz threading.									
7.0	8.0	Dark grey volcanic breccia. Broken core. Slight oxidation. Shearing.									
8.0	9.0	Dark grey volcanic breccia. Fine quartz threading.									
9.0	10.0	Dark grey volcanic breccia. Slight oxidation. 6" broken core.									
10.0	20.0	Dark grey fragmental volcanic. Broken core at 11' - 13' and from 19' - 20'.									
20.0	22.0	Dark grey volcanic breccia, well threaded with quartz.									
22.0	27.0	Generally broken and sheared core with oxidation.									
27.0	34.0	Light grey volcanic breccia, well threaded with quartz.									
34.0	46.5	Grey volcanic breccia threaded with quartz.									
46.5	58.5	Sheared grey volcanic breccia threaded with quartz. Some oxidation along shear planes.									

FORM T-12

COLLAR:-

NORTH 14,340.01
EAST 5,684.99
ELEVATION 1,437.44
AZIMUTH 315 degrees
DIP -30 degrees
LEVEL 1,450

DOLLY VARDEN MINES LIMITED

(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W.U. 3
COMMENCED January 27, 1964
FINISHED January 31, 1964
PURPOSE OF HOLE Exploration Wolf #1 Vein

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
58.5	60.5	Ground and broken grey volcanic breccia.									
60.5	63.0	Ground and broken grey volcanic breccia. 1" missing.									
63.0	66.0	Ground and broken core. 2" missing.									
66.0	68.0	Ground and broken core. 1" missing.									
68.0	70.0	Ground and broken core. Vug at 70'.									
70.0	74.5	Ground and broken core. 2" missing.									
74.5	80.5	Ground and broken core. 2" missing at 78.5' - 80.5'.									
80.5	91.0	Light grey volcanic breccia with slight quartz threading.									
91.0	108.5	Grey volcanic breccia. Slight oxidation on cleavage plane of shear. Fine quartz threading.									
108.5	115.0	Grey fragmental volcanic.									
		End of Hole.									

FORM T-12

COLLAR:-
NORTH 14,409
EAST 5,743
ELEVATION 1,443.5
AZIMUTH 314 degrees
DIP +45 degrees
LEVEL 1,450

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W.U. 5
COMMENCED March 4, 1964
FINISHED March 1964
PURPOSE OF HOLE Exploration Wolf #1 Vein
1,450 level

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
0	2	Grey volcanic breccia. Broken core. 1' lost.									
2	12	Grey volcanic breccia. Small calcite stringers. Sheared at 11'. Oxidized on cleavage plane.									
12	15	Grey volcanic breccia, light colored.									
15	24	Grey volcanic breccia, dark colored. Quartz stringers.									
24	25	Grey volcanic breccia, dark colored. Quartz stringers.									
25	32	Grey volcanic breccia, dark colored. Quartz stringers. Sheared 31'.									
32	34	Grey volcanic breccia. Broken core. 1' lost. Oxidation.									
34	38	Grey volcanic breccia. Oxidized broken core. Mud. 3' lost.									
38	43	Fragmental volcanics.	1286	38	43	5	.01	High silica breccia			
43	48	Fragmental volcanics.	1287	43	48	5	.015	High silica breccia			
48	51	Grey volcanic breccia. Broken core at 50'.									
51	53	Grey volcanic breccia. Broken core at 52' - 53'.									

FORM T-12

COLLAR:
NORTH 14,409
EAST 5,743
ELEVATION 1,443.5
AZIMUTH 314 degrees
DIP +45 degrees
LEVEL 1,450

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W.U. 5
COMMENCED March 4, 1964
FINISHED March 1964
PURPOSE OF HOLE Exploration Wolf #1 Vein
1,450 level

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ	% PB	AG X W		
53	55	Light grey breccia. Quartz stringers.									
55	57	Light grey breccia. Broken core. Oxidation.									
57	59	Light grey breccia. Broken core. Oxidation.									
59	61	Light grey breccia. Broken core. Oxidation. 1' lost.									
61	67	Light grey breccia. Broken core. Oxidation. Fragmental volcanics sheared at 65.5'. Oxidized at shear.									
67	68	Vein matter, mostly quartz.	1288	67	68	1	3.06				
68	72	Vein matter.	1289	68	72	4	5.12				
72	76	Vein matter, small thread zinc.	1290	72	76	4	4.54				
76	80	Vein matter, small thread zinc.	1291	76	80	4	32.76				
80	83	Vein matter, small thread zinc.	1292	80	83	3	32.80				
83	86	Wall rock, dark grey breccia. Stringers.	1293	83	86	3	0.24				
86	96	Dark grey breccia. Quartz stringers. Calcite threads.									
96		End of Hole.									

FORM T-12

COLLAR:-
NORTH 14,409
EAST 5,743
ELEVATION 1,443.5'
AZIMUTH 314 degrees
DIP 0 degrees
LEVEL 1,450

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO W.U. 6
COMMENCED March 10, 1964
FINISHED March 13, 1964
PURPOSE OF HOLE #1 Wolf Exploration

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ	%Pb	AG X W		
0	15	Light grey fragmental volcanics.									
15	22	Dark grey breccia.									
22	24	Dark grey breccia. Broken core.									
24	36	Dark grey volcanic fragments.									
36	45	Dark grey volcanic fragments. Quartz stringers.									
45	46	Dark grey volcanic fragments. Broken core.									
46	50	Dark grey volcanic fragments.									
51	54	Dark grey breccia. Broken core. Soft ground @ 53'.									
54	73	Dark grey volcanic breccia. Quartz threads.									
73	80	Dark grey volcanic breccia. Slight marcasite mineralization.									
80	81	Dark grey volcanic breccia. Broken core.									
81	85	Dark grey fragmental volcanics. Quartz threads.									
85	86	Light grey volcanic fragments. Quartz threads.									
86	93.5	Light grey volcanic fragments. Quartz threads.									
93.5	94	Light grey volcanic fragments. Broken core.									
94	98	Light grey volcanic fragments. 3" broken core and mud at 97.75/98.									

FORM T-12

COLLAR:-
NORTH 14,409
EAST 5,743
ELEVATION 1,443.5'
AZIMUTH 314 degrees
DIP 0 degrees
LEVEL 1,450

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W.U. 6
COMMENCED March 10, 1964
FINISHED March 13, 1964
PURPOSE OF HOLE #1 Wolf Exploration

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
98	104	Dark grey volcanic fragments. Slight marcasite mineralization.									
104	106	Light grey volcanic fragments. Slight quartz threading.									
106	108	Dark grey volcanic breccia. Broken core 107.75/108.									
108	111	Light grey volcanic breccia. Quartz threads.									
111	124	Light grey volcanic breccia. Slight quartz threading.									
124		End of Hole.									

FORM T-12

COLLAR:-
NORTH 14,373
EAST 5,713
ELEVATION 1,437
AZIMUTH 300 degrees
DIP 0 degrees
LEVEL 1,450

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W.U. 7
COMMENCED March 14, 1964
FINISHED March 18, 1964
PURPOSE OF HOLE #1 Wolf Vein Exploration

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
1	10	Grey volcanic breccia. Quartz stringers. Mostly broken core.									
10	18.5	Grey volcanic breccia, sheared at 18', with oxidation and broken core.									
18.5	22	Grey volcanic fragments. Quartz stringers.									
22	29.5	Grey volcanic fragments. Quartz stringers.									
29.5	31	Grey volcanic fragments. Broken core. 1' lost core.									
31	34	Grey volcanic fragments, sheared and oxidized at 33.5'/34'.									
34	46	Grey volcanic fragments. Quartz stringers. Shearing 3" at 36' and 46'.									
46	58.5	Grey volcanic fragments. Broken core at 51'. Sheared at 57.5'.									
58.5	62.5	Grey volcanic breccia.									
62.5	63.5	Grey volcanic breccia. Quartz fragments.		62.5	63.5	1.0'			1.60		
63.5	64.5	Grey fragmental volcanics. Mostly quartz.		63.5	64.5	1.0'			1.08		

FORM T-12

COLLAR:-
NORTH 14,373
EAST 5,713
ELEVATION 1,437
AZIMUTH 300 degrees
DIP 0 degrees
LEVEL 1,450

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W.U. 7
COMMENCED March 14, 1964
FINISHED March 18, 1964
PURPOSE OF HOLE #1 Wolf Vein Exploration

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
64.5	72.0	Grey fragmental faulted material, mud and broken core. 3' lost core.									
72	73	Grey volcanic breccia.									
73	74	Light grey breccia.									
74	83.5	Grey volcanic breccia, broken core and mud. 78', 3 feet lost core.									
83.5	85.5	Grey volcanic breccia.									
85.5	91	Light grey volcanic fragments. Broken core. Crushed core, 89.5/91.									
91	93	Light grey volcanic breccia, broken and crushed at 92.5/93.									
93	97	Light colored volcanic breccia. Few quartz threads.									
97	99	Light colored volcanic breccia. 12" calcite bedding. No mineralization.									
99	103	Light colored volcanic breccia. Calcite. Quartz threads.									
103		End of Hole.									

FORM T-12

COLLAR:-
NORTH 14,592
EAST 5,413
ELEVATION 1,223 (Approx.)
AZIMUTH 295 degrees
DIP Horizontal
LEVEL 1200 L. Wolf

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. U. - 11
COMMENCED
FINISHED
PURPOSE OF HOLE Exploration
Wolf Nos. 2 & 3 Veins

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
0'	55.0	DK, green, dense, silicious frag. volc.- (F-1).									
		½" pyrite & quartz stringers @ 13.0'. Lost core (33.0' - 34.0').									
55.0'	93.0	38.0' - Intense breccia with accompanying wh.,									
		quartz & pyrite - (MINERALIZED ZONE). 1.6 jasper - (71.4' - 73.0').									
		Badly crushed zone - (66.0' - 66.6'). No Core - (86.0' - 88.0').									
		5.0' strong pyrite zone that has a tinge of jasper throughout - (88.0' - 93.0').									
93.0'	101.0'	DK. green, dense, chloritized fragments Volc. (F-1)									
		that is in the zone of mineralization - only weak-	1343	101	107	6'	2.22				
		ly so.	1344	107	113	6'	2.02				
101.0'	127.4	Intensely breccia zone with wh. & gray quartz &	1345	113	120	7'	2.00				
		pyrite. Very dense & hard (MINERALIZED ZONE). 1.6'	1346	120	126	6'	0.72				
		jasper - (125.3' - 127.3')									
127.4'	131.0'	Green, altered, silicious, chloritized fragments	1347	126	131	5'	1.32				
		volcanic broken; about 75% recovery.									
131.0'	153.8'	Very strong breccia zone. Abundant wh. quartz &	1348	131	142.3	11.3	2.76				
		pyrite & some calcite - (MINERALIZED ZONE). 0.4'									
		jasper, quartz & pyrite & country rock - (132.6'	1349	142.3	148	5.5	3.68				
		133.0'). Small jasper zone @ 137.6'									
		0.5' jasper, quartz, pyrite etc.	1350	148	154	6'.0	4.84				
		(138.2' - 138.7').									

FORM T-12

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

COLLAR:-
NORTH 14,592
EAST 5,413
ELEVATION 1,223
AZIMUTH 295 Degrees N. 65 Degrees W.
DIP Horizontal
LEVEL 1200 L.

HOLE NO. W.U. - 11
COMMENCED
FINISHED
PURPOSE OF HOLE Exploration
Wolf Nos. 2 & 3 Veins.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
		(continued)	SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	%Pb	AG X W		
153.8'	208.0'	Green & gray mottled. Porphyritic fragments.									
		Volc. with local silicious inclusions (F-Z).									
		0.2' quartz pyrite zone - (170.1'-170.3')									
		Extreme mottling - (176.0'-183.0') with wh. quartz									
		Phenocrysts very pronounced.									
		Lost core - (187.0' - 188.5').									
		Lost core - (192.0'-198.0').									
		Very strong shr. (198.0'-199.0') - (200.0'- 200.5'									
208.0'	213.0'	DK. olive green LAMPRODHYRE DYKE.									
		Includes minor pyrite.									
213.0'	252.0'	Gray, mottled porphyritic fragments volc. (F-2).									
		Light gray to 233.0' - Dk. greenish gray to end of hole.									
		END OF HOLE									

FORM T-12

COLLAR:
NORTH 14170
EAST 5265
ELEVATION 1100
AZIMUTH South 25 degrees East
DIP Minus 30 degrees down
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 53
COMMENCED July 19, 1962
FINISHED July 20, 1962
PURPOSE OF HOLE Exploration
Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% PB	AG X W		
0	17	Casing	NOT SAMPLED								
17	18	Purple tuffs	NOT SAMPLED								
18	45	Vein breccia with volcanic breccia, ½% marcasite	A - 4	18	23	5	0.22				
		and a little argentite.	A - 5	23	28	5	0.32				
			A - 6	28	33	5	0.26				
			A - 7	33	38	5	0.28				
			A - 8	38	43	5	0.26				
45	51	Volcanic breccia with quartz fragments and some	A - 9	43	48	5	0.38				
		vein fragments.	A -10	48	53	5	0.26				
51	52½	Fine grained dark grey dike	A -10	48	53	5	0.26				
52½	58	Vein breccia with jasper and hemitite 53-54	A -11	53	55	2	2.96				
		Argentite.									
58	65	Fine grained grey dike	NOT SAMPLED								
65	71	Volcanic breccia with quartz fragments and a	A -12	65	70	5	2.46				
		little marcasite.									
71	103	Vein breccia with some volcanic breccia	A -13	70	75	5	0.82				Ruby Silver
		Marcasite. Ruby silver at 83.	A -14	75	80	5	11.40				Ruby Silver
			A -15	80	85	5	2.64				
			B - 1	86	91	5	7.46				
			B - 2	91	96	5	12.26				
			B - 3	96	101	5	4.68				
			B - 4	101	103½	2½	4.00				
103	108	Volcanic breccia with quartz fragments	NOT SAMPLED								
		END OF HOLE.									

FORM T-12

COLLAR:-
NORTH 14,376
EAST 5,320
ELEVATION 1,285
AZIMUTH South 60 degrees East
DIP Minus 30 degrees down
LEVEL

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 57
COMMENCED October 4, 1962.
FINISHED October 9, 1962.
PURPOSE OF HOLE Exploration Wolf 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
0	5	Casing.	NOT SAMPLED								
5	9.8	Altered greenstone and volcanic breccia, 1 inch silicous band 7.5-8.5 9.8 pyrite to silica zone	NOT SAMPLED								
9.8	12.6	Banded collidal silica and jasper with dark streak 11.8 native silver. 1 inch of core missing.	519	9.8	14.0	4.2	52.0				
12.6	18.0	As above with barite and marcasite	520	14.0	18.0	4.0	9.7				
18.0	24.5	Altered greenstone	NOT SAMPLED								
24.5	29.5	Silicous core with 15% marcasite zone.	521	24.5	29.5	5.0	3.7				
29.5	32.6	Greenstone which is in part silicous.	NOT SAMPLED								
32.6	34.5	Banded silica and some jasper, Much marcasite but no visible galena.	522	32.6	38.0	5.4	3.7				
34.5	38.0	As above	"	"	"	"	"				
38	56	Quartz vein breccia with 1% marcasite and a little jasper	523	38	43	5	3.1				
			524	43	48	5	0.72				
			525	48	53	5	0.82				
			526	53	56	3	0.64				
56	59	Volcanic breccia from light to dark green alteration.	527	58	63	5	1.7				

FORM T-12

DOLLY VARDEN MINES LIMITED

(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

COLLAR:-
NORTH 14,376
EAST 5,320
ELEVATION 1,285
AZIMUTH South 60 degrees East
DIP Minus 30 degrees down
LEVEL

HOLE NO. W. S. 57
COMMENCED October 4, 1962
FINISHED October 9, 1962
PURPOSE OF HOLE Exploration Wolf 2 Vein

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
59	60	Quartz vein breccia with marcasite and a little galena.	527	58	63	5	1.7				
60	80	Volcanic breccia with marcasite.	528	63	68	5	0.32				
		Vein stringers at 64, 66, 68, 73-75	529	68	73	5	0.72				
			530	73	78	5	1.3				
			531	78	80	2	0.12				
		END OF HOLE.									

FORM T-12

COLLAR:-
NORTH 14,270
EAST 5,320
ELEVATION 1,285
AZIMUTH South 60 degrees East
DIP Minus 60 degrees down
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 58
COMMENCED October 11, 1962.
FINISHED October 16, 1962.
PURPOSE OF HOLE Exploration Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ	%Pb	AG X W		
0	8	Casing.	NOT SAMPLED								
8	14	Volcanic breccia with green alteration. 4 inch vein fragment at 8 feet.	532	8	9	1	0.82				
14	31	Quartz vein breccia. Jaspery 14-17. Some marcasite throughout and galena at 30. 1 foot of volcanic breccia 19-20.	533	14	19	5	14.5				
			534	20	25	5	2.2				
			535	25	30	5	2.2				
31	39	Quartz vein breccia with marcasite.	536	30	35	5	4.9				
			537	35	39	4	3.8				
39	41	Volcanic breccia with light green alteration.	NOT SAMPLED								
41	50	Volcanic breccia with quartz vein breccia fragments.	538	42	47	5	0.46				
			539	47	52	5	1.1				
50	79	Quartz vein breccia with marcasite. Jasper at 50, 52, 53, 54-55, 57, 60, 63, 65, 67-68, 69, 74. Sphalerite 54,55, 65, 74.	540	52	57	5	1.7				
			541	57	62	5	0.78				
			542	62	67	5	1.3				
			543	67	72	5	1.6				
			544	72	76	4	9.7				

FORM T-12

COLLAR:
NORTH 14,270
EAST 5,320
ELEVATION 1,285
AZIMUTH South 60 degrees East
DIP Minus 60 degrees down
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 58
COMMENCED October 11, 1962.
FINISHED October 16, 1962.
PURPOSE OF HOLE Exploration Wolf No. 2 Vein

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
79	86	Quartz vein breccia with marcasite and a little jasper. 3" pale green dike at 85.	545	76	81	5	3.5				
			546	81	86	5	1.3				
86	100	Volcanic breccia with vein fragments. 3 feet of vein material 90-93. 6" pale green dike at 95.	547	90	93	3	1.3				
at	100	Volcanic breccia dark in colour and moderately sheared.	NOT SAMPLED.								
		END OF HOLE.									

FORM T-12

COLLAR:-
NORTH 14,279
EAST 5,310
ELEVATION 1,283
AZIMUTH Vertically down
DIP Minus 90 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 59
COMMENCED October 17, 1962.
FINISHED October 20, 1962.
PURPOSE OF HOLE Exploration Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
0	12	Casing.	NOT SAMPLED								
12	23	Volcanic breccia dark to light green with moderate shear, Marcasite 21-22.	548	19.6	24	4.4	25.60				
23	27	Quartz vein breccia with considerable marcasite.	549	24	29	5	59.9				
27	29	Pale green dike.	"	"	"	"	"				
29	58	Vein material weak appearing. Jasper 39-44, 48-49. 1% marcasite.	550	29	34	5	9.8				
			551	34	39	5	5.9				
			552	39	44	5	1.6				
			553	44	49	5	4.3				
			554	49	53	4	1.7				
			555	54	58	4	5.7				
58	60	Light green fine grained dike.	NOT SAMPLED.								
60	94	Vein material weak appearing. Jaspery 62-63, 80, 86-94. A little marcasite throughout. Marcasite heavy 85-86. Barite laths at 89.	556	60	65	5	5.7				
			557	65	70	5	15.3				
			558	70	75	5	5.6				
			559	75	81	6	11.9				

FORM T-12

COLLAR:
NORTH 14,279
EAST ~~5,130~~ 5,310
ELEVATION 1,283
AZIMUTH Vertically down
DIP Minus 90 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO W. S. 59
COMMENCED October 17, 1962.
FINISHED October 20, 1962.
PURPOSE OF HOLE Exploration Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
60	94	(continued) -	578	81	84	3	0.82				
			560	84	88	4	9.1				
			561	88	94	6	2.8				
95	97	Jaspery vein.	562	94	97	3	0.38				
97	101	Pale green volcanic breccia with marcasite.	NOT SAMPLED.								
		END OF HOLE.									

FORM T-12

COLLAR:-
NORTH 14,328
EAST 5,315
ELEVATION 1,295
AZIMUTH South 60 degrees East
DIP Down 60 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 60
COMMENCED October 23, 1962
FINISHED November 5, 1962
PURPOSE OF HOLE Exploration Wolf No. 2 Vein

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
0	7	Casing	NOT SAMPLED								
7	15	Green volcanic breccia which shows shearing at 13-15. Vein fragments at 15.	NOT SAMPLED								
15	28	Volcanic breccia with vein fragments	563	18	22	4	0.10				
28	47	Volcanic breccia with 6 inch light green dike at 39. 44-47 lost core 4 feet. Vein fragments at 43. Calcite stringers and some shear.	NOT SAMPLED								
47	64	Quartz vein breccia. Considerable marcasite 47-57. A little jasper in vein	564	47	50	3	15.0				
			565	50	55	5	11.1				
			566	55	60	5	3.0				
			567	60	64	5	19.4				
64	71	Quartz vein breccia. Jasper 66, 69, 70-71, Marcasite throughout and argentite at 68.	568	64	67.8	3.8	18.7				
			569	67.8	71.6	3.8	7.2				
71	83	Volcanic breccia. (greenstone)	NOT SAMPLED								
83	84	Jaspery vein breccia	570	83	88	5	3.9				
84	86	Volcanic breccia	570	83	88	5	3.9				
86	88	Quartz vein breccia with marcasite	"	"	"	"	"				
88	91	Volcanic breccia	571	88	90	2	0.22				
88	108	Volcanic breccia with vein fragments and a little marcasite.	"	"	"	"	"				
			572	90	95	5	0.24				

FORM T-12

COLLAR:-
NORTH 14,328
EAST 5,315
ELEVATION 1,295
AZIMUTH South 60 degrees East
DIP Down 60 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 60
COMMENCED October 23, 1962.
FINISHED November 5, 1962.
PURPOSE OF HOLE Exploration Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
108	153	Quartz vein breccia with carbonates. Barite laths	573	108	113	5	0.98				
		108-110. 2% marcasite. Jasper 109, 110, 111 115, 119, 122, 129, 128-129, 151-152.	574	113	118	5	1.1				
			575	118	123	5	14.7				
			576	123	128	5	17.3				
			577	128	132	4	10.7				
			579	132	137	5	18.8				
			580	137	142	5	2.3				
			581	142	147	5	0.84				
			582	147	153	6	0.82				
153	183	Volcanic breccia. A little marcasite less than	NOT SAMPLED.								
		1%. Vein fragments to 172. Purple tuffs 179, 181.									
		END OF HOLE.									

FORM T-12

COLLAR:-
NORTH 14,360
EAST 5,270
ELEVATION 1,267
AZIMUTH South 60 degrees East
DIP Down 30 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 61
COMMENCED November 7, 1962.
FINISHED November 9, 1962.
PURPOSE OF HOLE Exploration Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
0	3	Purple tuffs.	NOT SAMPLED								0 - 15. Casing. NOT SAMPLED.
3	44	Volcanic breccia.	NOT SAMPLED								
44	66	Volcanic breccia with vein fragments 50-55, 57-62, 62-64.	585	50	55	5	0.20				
			586	55	60	5	0.22				
			583	60	64	4	6.0				
			584	64	66	2	10.9				
at	67	Fine grained light green dike.	NOT SAMPLED								
67	70	Fine grained grey dike.	NOT SAMPLED								
70	73	Volcanic breccia with vein fragments. A little marcasite and pyrite.	587	70	74	4	1.7				
73	91	Quartz vein breccia with 2% marcasite. Jasper 94, 78, 80, and 83.	588	74	79	5	19.3				
			589	79	84	5	0.90				
			590	84	89	5	4.6				
			591	89	94	5	1.6				
91	96	Volcanic breccia with a few small vein fragments	592	94	96	2	0.98				
		END OF HOLE.									

FORM T-12

COLLAR:-
NORTH 570 TSM 14,516
EAST 108 TSM 5,352
ELEVATION 1387
AZIMUTH South 70 degrees East
DIP Minus 45 degrees down
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 63
COMMENCED April 27th, 1963.
FINISHED May 13, 1963.
PURPOSE OF HOLE Exploration Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
0	14	Overburden and casing.	NOT SAMPLED								
14	80	Silicious volcanic breccia with a small amount of pyrite and small fragments of purple tuff.	NOT SAMPLED								
80	122	Volcanic breccia. 2" dike at 119.	NOT SAMPLED								
122	135	Silicious volcanic breccia.	NOT SAMPLED								
135	157	Quartz vein breccia. Jasper 135, 136, 137, 140, 142, 156. 2% pyrite and marcasite.	635	135	140	5	10.0				
			636	140	145	5	14.4				
			637	145	150	5	21.7				
			638	150	155	5	2.7				
			639	155	157	2	1.8				
157	163	Volcanic breccia.	NOT SAMPLED								
163	178	Quartz vein breccia with a little jasper at 178. 1% pyrite and marcasite, Galena at 168, 170, 176, and sphalerite at 172.	640	163	168	5	3.2				
			641	168	173	5	3.5				
			642	173	178	5	20.2				
178	180	Volcanic breccia.	NOT SAMPLED								
180	190	Weak quartz vein breccia with a little pyrite and sphalerite.	643	180	185	5	3.6				
			644	185	190	5	0.08				
190	202	Silicious volcanic breccia with a little pyrite.	NOT SAMPLED								
202	205	Volcanic breccia.	NOT SAMPLED								
205	207	Vein breccia with 1% pyrite.	680	205	207	2	0.20				

FORM T-12

COLLAR:-

NORTH 570 TSM 14,516

EAST 108 TSM 5,352

ELEVATION South 70 degrees East

AZIMUTH Minus 45 degrees down

DIP Surface

LEVEL

DOLLY VARDEN MINES LIMITED

(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 63

COMMENCED April 27, 1963.

FINISHED May 13, 1963.

PURPOSE OF HOLE Exploration Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
207	235	Volcanic breccia. Dark from 207-212 and silicous 2 feet of vein breccia 224-226.	681	224	226	2	0.20				
235	270	Volcanic breccia.	NOT SAMPLED								
270	271	Vein breccia.	NOT SAMPLED								
271	307	Volcanic breccia.	679	271	275	4	0.06				
		END OF HOLE									

FORM T-12

COLLAR:-
NORTH 435
EAST 130
ELEVATION
AZIMUTH South 65 degrees East
DIP Minus 45 degrees down
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 65
COMMENCED June 7, 1963
FINISHED June 14, 1963
PURPOSE OF HOLE Exploration Wolf No. 2 Vein

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
0	28	Casing.									
28	29	Volcanic breccia.									
29	45	Quartz vein breccia. Jasper 30, 34.	697	29	33	4	7.5				
		Ruby Silver 31, 34, 39, 41, 42. Galena 32, 34	698	33	38	5	10.3				
		37, and 38. Argentite 31½, 41, 44. Sphalerite	699	38	43	5	21.8				
		34. Pyrite 3%. A little marcasite.	700	43	45	2	4.0				
45	50	Quartz vein breccia.	701	45	49	4	24.5				
50	56	Volcanic breccia with pyrite and 1 inch vein	702	49	54	5	2.9				
		breccia.									
56	101	Silicous volcanic breccia. 2 inch vein stringer	703	54	59	5	0.24				
		at 58.	704	59	62½	3.5	0.06				
101	113	Volcanic breccia with 2 inch stringer at 111.									
113	124	Silicous volcanic breccia with calcite stringers.									
124	126	Rhyolite tuff (silicified) included in group									
		known as silicous voicanic breccia.									
126	128	Very little core seen that present was calcite.									
128	133	Andesite tuff with calcite stringers.									
133	133½	Veins of calcite 6 inches thick with pyrite.									
133½	134	Andesite tuff.									

FORM T-12

COLLAR:-
NORTH 435
EAST 130
ELEVATION
AZIMUTH South 65 degrees East
DIP Minus 45 degrees down
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 65
COMMENCED June 7, 1963
FINISHED June 14, 1963
PURPOSE OF HOLE Exploration No. 2 Wolf Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
134	138	Andesite tuff with calcite stringers with red oxide at 138.	705	134	141	7	Trace				
138	145	Andesite tuff with calcite stringers containing a trace of galena.	706	141	146	5	Trace				
145	147	Pyroxene-rich andesite.	707	146	151	5	Trace				
147	149	Calcite andesite tuff breccia containing pyrite.									
149	151	Andesite tuff.									
151	152	Andesite tuff with calcite stringers.	708	151	156	5	0.26				
152	155	Andesite tuff breccia with calcite matrix containing galena trace.									
155	163	Andesite tuff with calcite stringers. Shear zone ½ inch thick with calcite and epidote.	709	156	161	5	Trace				
163	163½	Calcite andesite tuff breccia.	710	161	166	5	Trace				
163½	164½	Andesite tuff.									
164½	166	Calcite andesite tuff breccia with a little pyrite.									
166	172	Andesite tuff with calcite stringers.	711	166	171	5	Trace				
172	174	Calcite andesite-tuff breccia with pyrite in	712	171	176	5	Trace				

FORM T-12

COLLAR:-
NORTH 435
EAST 130
ELEVATION
AZIMUTH South 65 degrees East
DIP Minus 45 degrees down
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 65
COMMENCED June 7, 1963
FINISHED June 14, 1963
PURPOSE OF HOLE Exploration No. 2 Wolf Vein

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
172	174	(continued) both calcite and tuff.									
174	175	Calcite andesite-tuff breccia with specks of galena in calcite matrix.									
175	176	Pyrite in tuff pebbles.									
176	177	Calcite andesite tuff breccia with larger tuff pebbles. Galena in calcite matrix.	713	176	181	5	Trace				
177	178	Andesite tuff containing angular fragments of diorite.									
178	178½	Andesite tuff containing pyroxenite fragments and pyrite.									
178½	188½	Andesite tuff breccia with calcite and argentite. Tuff contains a little pyrite. 2 inch silica andesite tuff breccia (silica encloses a calcite matrix at 178½).	714	181	186	5	Trace				
188½	189	Andesite tuff showing crystalloblastic calcite crystals. Pyrite concentrated on the tuff - calcite contacts.	715	186	190	4	Trace				
189	190	Andesite tuff showing 3 inch rich pyroxene.									
		END OF HOLE.									

FORM T-12

COLLAR:
NORTH 14,797.7
EAST 5,377.3
ELEVATION 1,460.0
AZIMUTH 121.28
DIP 45 degrees 00
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 67
COMMENCED June 29, 1963
FINISHED August 3, 1963
PURPOSE OF HOLE Exploration Wolf #2

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ.	% PB	AG X W		
0	24	Overburden									
24	39.6	Calcareous rhyolite tuff breccia									Greenstone
at	30	Marcasite in tuff fragments									"
at	31	Marcasite in calcite									"
32	39	Traces of finely disseminated marcasite									"
39.6	89.2	Chert breccia with marcasite throughout (matrix in chalcedony) and calcite fragments	835	39	43	4.0	0.54				Vein material with sulphides
40.5	43.4	Galena and sphalerite disseminated as small masses throughout.	836	43	48	5	6.5				
at	46.5	Much marcasite segregated around jasper.	837	48	53	5	6.2				
46.6	50	Much galena and sphalerite. Occasional fragments of jasper.	838	53	59	6	3.5				
at	51.7	Small jasper fragments.	839	59	63	4	1.5				
at	55.6	Speck of galena.	840	63	68	5	1.5				
at 55.5	60.1	Occasional fragments of jasper found throughout	841	68	73	5	0.92				
at	60.2	Chlorite fragments	842	73	76.5	3.5	0.52				
at 62	66.5	Jasper fragments	843	76.5	80.5	4	0.48				
at	66.5	Trace of tetrahedrite.									

FORM T-12

COLLAR:-
NORTH 14,797.7
EAST 5,377.3
ELEVATION 1,460.0
AZIMUTH 121.28
DIP 45 degrees 00
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 67
COMMENCED June 29, 1963
FINISHED August 3, 1963
PURPOSE OF HOLE Exploration Wolf #2

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ.	% PB	AG X W		
at 68	74.8	(Continued) This length well chloritized.									
at 70.5	73	Some sphalerite present, and small masses of galena.									
at 70	72	Occasional fragments of jasper.									
at 73	73.5	Segregation of finely crystallized galena with marcasite and a trace of sphalerite.									
at 73.5	74.8	Finely disseminated galena.									
at 75	78	Specks of galena and sphalerite									
at 78.3	78.6	Broken core with a little sand.									
at	80.5	Fracture with chlorite; probably shear plane	844	80.5	84	3.5	0.06				

FORM T-12

COLLAR:
NORTH 14,797.7
EAST 5,377.3
ELEVATION 1,460.0
AZIMUTH 121
DIP Surface
LEVEL

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 67
COMMENCED May 29, 1963
FINISHED August 3, 1963
PURPOSE OF HOLE Exploration Wolf #2

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ.	% Pb	AG X W		
at 81	83.8	Finely disseminated galena and sphalerite.									Vein material
at 81.9	82.3	Some chloritization.									
84	89.2	Mixed andesite tuff, chert fragments breccia well chloritized.									
at 84	87	Very finely disseminated galena	845	84	87.7	3.7	0.28				Vein material
at 87.7		Fracture with chlorite and calcite									
at	88.4	Some specks of sphalerite	846	87.7	89.2	1.5	0.56				Vein material
84	95.4	Andesite tuff breccia (with chert fragments)	847	89.2	95.4	6.2	1.3				" "
95.4	97.5	Chert breccia with calcite fragments and numerous segregations of galena and marcasite. A few specks of sphalerite disseminated throughout.	848	95.4	97.5	2.1	1.0				
97.5	98.2	Tuffaceous mudstone	849	97.5	98.2	.7	0.22				Greenstone
98.2	111.5	Chert breccia with calcite fragments and numerous	850	98.2	99.8	1.6	4.6				Vein material
		segregations of galena and marcasite. A few specks of sphalerite throughout. Sphalerite specks at	854	99.8	100.5	.7	4.7				Greenstone
		99 to 99.3, 103.5 to 104, and 106 to 111.5									
99.8	100.5	Andesite tuff breccia	851	100.5	104	3.5	7.7				Greenstone
104	105.4	Andesite tuff breccia (chlorite & marcasite present)	852	105.4	108	2.6	0.96				"
		N.B. 101' to 106' - 6.8' core	853	108	111.5	3.5	1.4				"
111.5	117	Andesite tuff breccia with calcite, chlorite and	856	111.5	114.5	3	0.28				Greenstone

FORM T-12

COLLAR:-
NORTH 14,797.7
EAST 5,377.3
ELEVATION 1,460.0
AZIMUTH 121
DIP Surface
LEVEL

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 67
COMMENCED May 29, 1963
FINISHED August 3, 1963
PURPOSE OF HOLE Exploration Wolf #2

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
111.5	117	(Continued) throughout. Specks of finely disseminated galena	857	114.5	117	2.5	0.06				Greenstone
117	138	Rhyolite tuff breccia with faint chloritization	NOT SAMPLED								"
138	140	Andesite tuff breccia with cavity fillings with quartz.	"	"							"

FORM T-12

COLLAR:
NORTH
EAST
ELEVATION
AZIMUTH South 65 degrees East
DIP Minus 60 degrees down
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 68
COMMENCED June 7, 1963
FINISHED June 20, 1963
PURPOSE OF HOLE Exploration Wolf No. 2 Vein

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB.	AG X W		
0	12	Casing.									
12	68	Volcanic breccia slightly pyritized.									
68	90	Silicified light grey volcanic breccia with a little pyrite.									
90	119	Volcanic breccia.									
119	128	Rhyolite tuff (silicified). Pyrite at 122. 127 rhyolite tuff with pyrite.									
128	130	Rhyolite volcanic breccia with pyrite.									
130	133½	Rhyolite tuff with pyrite specks.									
133½	135	Calcite rhyolite tuff breccia with pyrite.									
135	137	Rhyolite breccia. (silicified)									
137	138½	Calcite rhyolite breccia. 138 soft breccia with hornblende.									
138½	139	Rhyolite tuff.	716	138	143	5	7.1				
139	140	Andesite with pyrite and calcite.									
140	144	Quartzite with pyrite and red streaks.	717	143	144	1	15.2				
144	151	Galena, pyrite and argentite in quartzite with red streaks.	718	144	149	5	37.5				
			719	149	151½	2.5					

FORM T-12

COLLAR:
NORTH
EAST
ELEVATION
AZIMUTH South 65 degrees East
DIP Minus 60 degrees down
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 68
COMMENCED June 7, 1963
FINISHED June 20, 1963
PURPOSE OF HOLE Exploration Wolf No. 2

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ	% PB	AG X W		
151	153	Quartzite containing pyrite and showing a red	720	151	156	5	26.5				153 - 202
		streak. Within the red streak specks of a blue-grey, which appear translucent around the edges,									Trace of
		may be pyrangyrite. A trace of galena is present.									pyrangyrite in a silicous
	156	Both marcasite and pyrite present. Red streaks									mixture of quartzite and
		are present. Some galena and sphalerite present in specks.									calcite breccia.
at	159½	Galena specks and pyrite in calcite chips in the	721	156	161	5	35.6				Pyrite is present in
		breccia. (The silicous matrix appears to be some variety of chalcedony)									large amounts in the quartz.
at	160	Stringers of calcite, pyrite and silica ore found									
		in the breccia. (The numbers of calcite fragments has increased at this point in relation to									
		quartzite particles)									
at	160½	Galena in the chalcedony matrix of the breccia.									
		A stringer of a dark aphanitic material (tentatively called trap) lined above and below by									
		calcite. The trap contains sphalerite. Pyrite is present in the breccia above and below.									
at	161	Chalcedony mixed quartz-calcite breccia with									
		pyrite, calcite, sphalerite and tetrahedrite. (The calcite is in stringers.)									

FORM T-12

COLLAR:-
NORTH
EAST
ELEVATION 1,325 approximately
AZIMUTH South 65 degrees East
DIP Minus 60 degrees down
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 68
COMMENCED June 7, 1963
FINISHED June 20, 1963
PURPOSE OF HOLE Exploration Wolf No. 2

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
at	165	Calcite, pyrite and marcasite in the chalcedony matrix of the breccia. (The calcite seems to occur as occasional fragments, and also as stringers.)	722	161	166	5	9.4				Pyrite
at	170	Pyrite and marcasite very high in the calcite. (Almost solid pyrite)	723	166	171	5	3.0				Pyrite
at	171	Stringers of quartzite in the chalcedony-mixed fragments of breccia. Pyrite is present.	724	171	176	5	0.7				Pyrite
at	177	Quartzite in breccia containing pyrite and sphalerite. A red streak is present.	725	176	181	5	4.3				Pyrite
at	180	Chalcedony-mixed fragment breccia with pyrite									
at	181	Pyrite in the breccia. Jasper also present with occasional pyrite stringers and galena specks.	726	181	186	5	5.6				Pyrite
at	184½	Breccia as described above with calcite stringers containing specks of galena and pyrite.									
at	188½	Bands of pyrite and sphalerite in the same breccia.	727	186	191	5	17.3				Pyrite
at	191	Pyrite and calcite fragments present in the same breccia.	728	191	196	5	3.3				Pyrite, Galena
at	194	Trace of argentite and sphalerite in the breccia									

FORM T-12

COLLAR:-
NORTH
EAST
ELEVATION 1,325 approximately
AZIMUTH South 65 degrees East
DIP Minus 60 degrees down
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 68
COMMENCED June 7, 1963
FINISHED June 20, 1963
PURPOSE OF HOLE Exploration Wolf No. 2

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ.	% PB	AG X W		
at	194	(Continued) with pyrite and tetrahedrite.									
at	199	¼ inch vein of tuffaceous mudstone.	729	196	201	5	4.2				Pyrite
202	203	Calcareous andesite breccia with trace of pyrite	730	201	206	5	2.7				Galena
203	205½	Tuffaceous chert fragments breccia with sphalerite and pyrite.									
205½	209	Calcareous andesite breccia with pyrite.	731	206	211	5	0.7				Pyrite
209	209½	Calcareous andesite breccia with no pyrite.									
at	209½	2 inches of pyrite.									
211	212	Andesite tuff.									
212	214	Calcareous andesite tuff breccia.									
214	215	Andesite tuff.									
215	216	Calcareous andesite-tuff breccia.									
216	219½	Andesite tuff with calcite stringers.									
219½	229	Calcareous andesite tuff breccia.									
at	225	Evidence of shearing.									
		END OF HOLE AT 229.									

FORM T-12

COLLAR:
NORTH 14,726
EAST 5,355
ELEVATION 1,420 Approx.
AZIMUTH South 67 degrees East
DIP Minus 45 degrees down
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 69
COMMENCED June 19, 1963.
FINISHED June 25, 1963.
PURPOSE OF HOLE Exploration Wolf No. 2 Vein

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
0	13	Casing.									
13	17	Siliceous rhyolite tuff breccia contains much limonite due to weathering. (limonite in fractures).									
17	20	Presence of pyrite and specks of galena.									
20	27	Calcite stringers present with liminite in fractures. The mass is tuffaceous. Rhyolite tuff breccia.									
27	29	Tuffaceous rhyolite tuff breccia with calcite stringers. Pyrite present.									
39	43	Tuffaceous rhyolite tuff breccia with stringers of calcite and quartz. Some pyrite.									29-85 Greenstone.
49	50	Greywacke with calcite stringers.									
50	53	Tuffaceous rhyolite tuff breccia with calcite.									
at	53	Some pyroxene.									
at	54	Little pyrite.									
56	59	Tuffaceous rhyolite tuff breccia with trace of marcasite and pyrite.									
59	62	Tuffaceous andesite tuff breccia with pyrite and calcite.									

FORM T-12

COLLAR:-
NORTH 14,726
EAST 5,355
ELEVATION 1,420
AZIMUTH South 67 degrees East
DIP Minus 45 degrees down
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 69
COMMENCED June 19, 1963.
FINISHED June 25, 1963.
PURPOSE OF HOLE Exploration Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	%Pb	AG X W		
62	64	Tuffaceous rhyolite tuff breccia with pyrite.									
64	68	Tuffaceous andesite tuff breccia with pyrite.									
68	71	Sheared area.	1054	69	74	5	0.10				
71	73	Silicified tuffaceous andesite tuff with pyrite and marcasite.	"	"	"	"	"				
73	74	Epidote stringers.	"	"	"	"	"				
74	76	Tuffaceous mudstone.	1055	74	79	5	Trace				
76	79	Silicified rhyolite tuff with pyrite and specks galena.	"	"	"	"	"				
79	81	Siliceous rhyolite tuff breccia with specks of galena in the siliceous matrix.	1056	79	86	7	3.5				
81	84	Siliceous andesite tuff breccia with pyrite in siliceous matrix.	"	"	"	"	"				
84	85	Tuffaceous andesite breccia.	"	"	"	"	"				
at	85½	Galena specks in chert.	"	"	"	"	"				
85	86	Calcareous chert breccia.	"	"	"	"	"				

FORM T-12

COLLAR:-
NORTH 14,726
EAST 5,355
ELEVATION 1,420
AZIMUTH South 67 degrees East
DIP Minus 45 degrees down
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 69
COMMENCED June 19, 1963
FINISHED June 25, 1963
PURPOSE OF HOLE Exploration Wolf No.2 Vein

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
86	87½	Siliceous andesite tuff breccia. Bands of chalcedony pass through the breccia, with a red streak. Galena is present on the edges of the tuff fragments. Pyrite, calcite stringers and hornblende.	1057	86	91	5	4.1				
87½	90	Siliceous rhyolite tuff breccia with calcite stringers. Pyrite and epidote found in the siliceous matrix, also specks of galena.	1057	86	91	5	4.1				
90	91½	Silicified argillaceous andesite tuff breccia with pyrite.	"	"	"	"	"				
91½	93	Andesite tuff	738	91	96	5	3.6				93-120- Siliceous mixed quartz-calcite-fragment breccia.
at	97	Jasper in the chalcedony of the breccia. Pyrite and specks of argentite.	739	96	101	5	6.0				
at	99	Cavity filling of quartz on a shear plane.	"	"	"	"	"				
at	101	Pyrite in the breccia	"	"	"	"	"				
at	106	Specks of argentite in the breccia	740	101	106	5	4.1				
at	107	Galena present on borders of calcite and chalcedony. Marcasite, pyrite, chalcopyrite. Specks of argentite.	741	106	111	5	6.3				
			742	111	116	5	0.38				
at	117½	Considerable galena and pyrite	743	116	121	5	3.4				
120	123	Silicified tuffaceous mixed quartz calcite fragment breccia with calcite stringers - no pyrite.	744	121	126	5	1.9				

FORM T-12

COLLAR:
NORTH 14,726
EAST 5,355
ELEVATION 1,420
AZIMUTH South 67 degrees East
DIP Minus 45 degrees down
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 69
COMMENCED June 19, 1963
FINISHED June 25, 1963
PURPOSE OF HOLE Exploration Wolf No. 2 Vein

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
123	131	Much pyrite, a speck of galena in silicified tuffaceous mixed quartz calcite fragment breccia.	745	126	131	5	0.36				
at	126	Specks of galena	"	"	"	"	"				
at	131	Jasper and pyrite	"	"	"	"	"				
131	133	Siliceous mixed quartz calcite fragment breccia, with calcite stringers and pyrite.	746	131	136	5	0.06				
at	133½	Jasper fragments included with chalcedony matrix of the siliceous mixed quartz calcite fragment breccia. Pyrite	"	"	"	"	"				
133	138	Siliceous andesite tuff breccia with pyrite and stringers of calcite.	746 747	131 136	136 141	5 5	0.06 0.04				
136	137	Specks of galena	"	"	"	"	"				
138	144	Siliceous mixed fragment breccia. Fragments of andesite and fhyolite tuff.	747 748	136 141	141 146	5 5	0.04 Trace				
at	142	Pyrite	"	"	"	"	"				
144	151½	Siliceous andesite tuff breccia .	748 749	141 146	146 151	5 5	Trace 0.04				
at	148	Pyrite and galena specks	"	"	"	"	"				
at	149	Sphalerite	"	"	"	"	"				

FORM T-12

COLLAR:-
NORTH 14,726
EAST 5,355
ELEVATION 1,420
AZIMUTH South 67 degrees East
DIP Minus 45 degrees down
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 69
COMMENCED June 19, 1963
FINISHED June 25, 1963
PURPOSE OF HOLE Exploration Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
at	151	Specks of sphalerate and trace of argentite.	749	146	151	5	0.04				
151½	152	Rhyolite tuff with calcite stringers.	751	151	154	3	3.7				
152	152½	Tuffaceous andesite tuff breccia.	"	"	"	"	"				152-160- Vein material.
at	154	Pyrite and a visible speck of galena.	"	"	"	"	"				
157	160	Siliceous andesite tuff breccia with pyrite and specks of galena.	NOT SAMPLED								
160	166	Tuffaceous andesite tuff breccia.	NOT SAMPLED								
166	168	Andesite tuff.	NOT SAMPLED								
168	169	Calcareous andesite tuff breccia.	NOT SAMPLED								
		End of Hole.									

FORM T-12

COLLAR:
NORTH 14,488
EAST 5,309
ELEVATION 1,315
AZIMUTH South 67 degrees East
DIP Minus 74 degrees down
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 70
COMMENCED June 21, 1963
FINISHED July 6, 1963
PURPOSE OF HOLE Exploration Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
0	11	Casing.	NOT SAMPLED								11-181 Greenstone.
at	12	Calcite stringer with pyrite.	"	"							
12	13	Shear zone with gouge.	"	"							
at	21	Calcite stringers. Silicious matrix is chalcedony.	"	"							
22	22½	Calcareous andesite tuff breccia.	"	"							
22½	28	Silicified tuffaceous andesite tuff breccia.	"	"							
at	28	Calcite stringers.									
28	30	Tuffaceous andesite tuff breccia.	"	"							30-38 - Silicified tuffaceous andes. tuff.
at	31	Finely disseminated marcasite.	"	"							
at	32	Pyroxene.	"	"							
at	33	Quartz stringers.	"	"							
at	36	Pyroxene rich zone.	"	"							
38	42	Tuffaceous andesite tuff breccia with calcite stringers.	"	"							
42	48	Silicious andesite tuff breccia.	"	"							
at	43	Fine grained marcasite.	"	"							
48	49	Calcareous andesite tuff breccia.	"	"							
49	53	Silicous andesite tuff breccia.	"	"							

FORM T-12

COLLAR:-
NORTH 14,488
EAST 5,309
ELEVATION 1,315
AZIMUTH South 67 degrees East
DIP Minus 74 degrees down
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 70
COMMENCED June 21, 1963
FINISHED July 6, 1963
PURPOSE OF HOLE Exploration Wolf No. 2 Vein

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
53	54	Tuffaceous andesite tuff breccia, with calcite stringers and specks of marcasite.	NOT SAMPLED								
54	60	Silicified tuffaceous andesite tuff breccia with stringers of epidote and calcite. Pyrite with the epidote.	"	"							
60	61½	Calcified tuffaceous andesite tuff breccia with stringers of epidote and calcite. Pyrite with the epidote.	"	"							
61½	66	Silicified tuffaceous andesite tuff breccia with calcite stringers.	"	"							
66	77½	Silicified tuffaceous andesite tuff breccia with marcasite.	"	"							
77½	79½	Tuffaceous andesite tuff breccia.	"	"							
79½	80½	Silicious andesite tuff breccia.	"	"							
80½	81½	Tuffaceous andesite tuff breccia.	"	"							
81½	84	Silicified andesite tuff breccia with quartz stringers.	"	"							
84	86	Tuffaceous andesite tuff breccia.	"	"							
86	88½	Silicified andesite tuff breccia	"	"							

FORM T-12

COLLAR:-
NORTH 14,488
EAST 5,309
ELEVATION 1,315
AZIMUTH South 67 degrees East
DIP Minus 74 degrees down
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 70
COMMENCED June 21st, 1963
FINISHED July 6th, 1963
PURPOSE OF HOLE Exploration Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ	% Pb	AG X W		
88½	93⅓	Silicified tuffaceous andesite tuff breccia.	NOT SAMPLED								
at	93	Epidote filling in jointing planes.	NOT SAMPLED								
93⅓	96	Tuffaceous andesite tuff breccia.	"	"							
96	97	Silicious andesite tuff breccia.	"	"							
97	97⅓	Calcareous rhyolite tuff breccia.	"	"							
97⅓	102	Tuffaceous andesite tuff breccia.	"	"							
102	115	Silicified tuffaceous andesite tuff breccia.	"	"							
115	118	Tuffaceous andesite tuff breccia.	"	"							
118	119	Silicified tuffaceous andesite tuff breccia.	"	"							
119	120	Tuffaceous andesite tuff breccia.	"	"							
120	125	Silicified tuffaceous andesite tuff breccia.	"	"							
125	126⅓	Tuffaceous andesite tuff breccia with specks of pyrite.	"	"							
126⅓	129	Silicified tuffaceous andesite tuff breccia.	"	"							
at	129	Stringer of epidote and calcite. Cavity filling in calcite showing quartz crystals. Pyrite in both calcite and epidote.	"	"							
130	133	Calcareous andesite tuff breccia with pyrite.	"	"							
133	140	Silicified tuffaceous andesite tuff breccia with pyrite and marcasite.	"	"							

FORM T-12

COLLAR:-
NORTH 14,488
EAST 5,309
ELEVATION 1,315
AZIMUTH South 67 degrees East
DIP Minus 74 degrees down
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 70
COMMENCED June 21, 1963
FINISHED July 6, 1963
PURPOSE OF HOLE Exploration Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	%Pb	AG X W		
at	138	Pyrite in chalcedony matrix.	NOT SAMPLED								
at	139	Calcite in the matrix.	"	"							
140	148	Tuffaceous andesite tuff breccia.	"	"							
at	146	Marcasite.	"	"							
148	161	Silicious andesite tuff breccia.	"	"							
161	165	Tuffaceous andesite tuff breccia.	"	"							
165	174	Silicified tuffaceous andesite tuff.	"	"							
174	181⅓	Silicious andesite tuff breccia.	"	"							
at	178	Pyrite.	"	"							
180	181⅓	Poor core recovery with mud.	"	"							
181⅓	184⅓	Calcareous andesite tuff breccia.	733	181	191	10	17.8				
at	184	Marcasite and galena specks.	"	"	"	"	"				
at	186	Jasper fragments in the breccia.	"	"	"	"	"				184⅓-231 - Silicious matrix is chalcedony. Marc.
at	192⅓	Specks of pyrargyrite and the red streak of "ruby silver" in the chalcedony matrix - 2 inches of irregular red streak with trace of pyrargyrite.	732	191	196	5	247.2				
at	193	Red streak present which appears to be jasper	"	"	"	"	"				
at	194	Specks of sphalerite and galena.	"	"	"	"	"				

FORM T-12

COLLAR:-
NORTH 14,488
EAST 5,309
ELEVATION 1,315
AZIMUTH South 67 degrees East
DIP Minus 74 degrees down
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 70
COMMENCED June 21, 1963.
FINISHED July 6, 1963.
PURPOSE OF HOLE Exploration Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
at	196	(continued) Specks of pyrargyrite with red streaks for about 2 inches.	732	191	196	5	247.2				
at	196½	Continuous streak of ruby silver impregnated with specks of pyrargyrite for about 2 inches.	734	196	201	5	24.4				
at	197	Specks of galena and trace of argentite.	"	"	"	"	"				
at	198	Red streak and specks of galena.	"	"	"	"	"				
at	198½	Red stain with specks of pyrargyrite.	"	"	"	"	"				
at	200	Small red specks with pyrargyrite. Galena.	"	"	"	"	"				
201	208	Red specks.	735	201	206	5	31.2				
at	208½	Sphalerite specks and specks of pyrargyrite. 3 inches of red streak.	736	206	211	5	57.9				
at	209½	Red streak.	"	"	"	"	"				
at	210½	Specks of galena.	"	"	"	"	"				
at	213	Red specks.	737	211	216	5	20.2				

FORM T-12

COLLAR:
NORTH 14,488
EAST 5,309
ELEVATION 1,315
AZIMUTH South 67 Degrees East
DIP Minus 74 Degrees Down
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 70
COMMENCED 21 June 1963
FINISHED Still drilling
PURPOSE OF HOLE Exploration Wolf #2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	%PB	AG X W		
210	240	VEIN MATERIAL									
at	224	Red streak appears to be jasper. Fine grained galena in between bands of jasper. Specks of chalcopyrite.	1102	223	228	5	9.0				
at	225	Tetrahedrite and chalcopyrite.	"	"	"	"	"				
at	228	Specks of galena.	"	"	"	"	"				
at	228½	Fragments of jasper in the breccia. Specks of galena.									
at	229	Speckling of galena for 3 inches.									
231	233	Andesite tuff.	1103	232	237	5	23.2				
233	238	Siliceous mixed calcite-chert fragments breccia with marcasite.	"	"	"	"	"				
at	233½	Specks of galena.	"	"	"	"	"				
at	236	Some jasper fragments.	"	"	"	"	"				
at	238	Specks of galena.	1104	237	240	3	9.5				
238	240	Tuffaceous andesite tuff breccia.	"	"	"	"	"				
240	242	Tuffaceous andesite tuff breccia.	752	241	246	5	2.7				
242	268½	Siliceous mixed chert-calcite breccia with marcasite									
at	242	Specks of pyrargyrite with red streak	"	"	"	"	"				

FORM T-12

COLLAR:-
NORTH 14,488
EAST 5,309
ELEVATION 1,315
AZIMUTH South 67 Degrees East
DIP Minus 74 Degrees Down
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 70
COMMENCED 21 June 1963
FINISHED Still drilling
PURPOSE OF HOLE Exploration Wolf #2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ.	% PB	AG X W		
at	242⅓	Red stain present which may be jasper. Some andesite tuff in the breccia.	752	241	246	5	2.7				
at	244	Red specks - Jasper?	"	"	"	"	"				
at 246	246	Specks of pyrargyrite with red streak.	"	"	"	"	"				
at	247	Fragments of andesite tuff	753	246	251	5	2.2				
at	250	Trace of black sectile mineral which may be argentite.	"	"	"	"	"				
at	252	Specks of pyrargyrite in red streak. Pyrite.	754	251	256	5	2.7				
at	253	Fine disseminated galena.	"	"	"	"	"				
at	255	Sphalerite specks for 2 inches.	"	"	"	"	"				
at	255½	Sphalerite and galena specks and a red streak	"	"	"	"	"				
at	263	Specks of galena with sphalerite.	756	261	266	5	7.5				
at	264	Rhodochrosite.	"	"	"	"	"				
at	265	Sphalerite with a little galena.	"	"	"	"	"				
at	267	Specks of galena, a red streak present.	757	267	273	5	7.0				
271	275	Zone of siliceous chert breccia with strong marcasite and pyrite.									
at	274	Pyroxene in fractures.	758	272½	277½	5	10.1				
275	286½	Siliceous mixed quartz-calcite fragment breccia with marcasite.									

FORM T-12

COLLAR:-
NORTH 14,488
EAST 5,309
ELEVATION 1,315
AZIMUTH ~~South 67 Degrees~~ East
DIP Minus 74 Degrees Down
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 70
COMMENCED 21 June, 1963
FINISHED Still drilling
PURPOSE OF HOLE Exploration Wolf #2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% PB	AG X W		
at	277	(continued) Faint red streak	758	272½	277½	5	10.1				
at	282½	Faint red streak - Pyrargyrite?	759	277½	282	4.5	9.2				
at	284	Galena.	760	283	288	5	2.4				
286½	293	Tuffaceous andesite tuff breccia with epidote in shear planes.									
at	288	Siliceous chert breccia with marcasite.	"	"	"	"	"				
290	291	Jasper present in fragments	761	288	293	5	1.5				
at	292	Red Streak and specks of galena	"	"	"	"	"				
293	298	Green stone - tuffaceous andesite tuff breccia.	762	293	298	5	0.48				
296	298	Fragments of tuffaceous andesite tuff	"	"	"	"	"				
298	302	Siliceous andesite tuff breccia.	763	298	303	5	4.1				
at	302	Marcasite.	"	"	"	"	"				
303	306	Siliceous chert breccia with marcasite.	764	303	306	3	8.0				
at	304	Jasper?	"	"	"	"	"				
305	306	Galena and pyrite with a little galena, jasper.	"	"	"	"	"				
306	309	Siliceous chert breccia w/marcasite throughout Specks of pyrite and galena, bands of jasper.	765	306	311	5	14.5				
at	309	Pyrargyrite occurs as small specks within a red streak. Specks of argentite, sphalerite & some calcite fragments	"	"	"	"	"				

FORM T-12

COLLAR:-
NORTH 14,488
EAST 5,309
ELEVATION 1,315
AZIMUTH South 67 degrees East
DIP Minus 74 degrees Down
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 70
COMMENCED 21 June, 1963
FINISHED Still drilling
PURPOSE OF HOLE Exploration Wolf #2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
at	310	Pyrite crystals.	765	306	311	5	14.5				
at	310½	Pink stain.	"	"	"	"	"				
at	311	Some specks of well-disseminated galena.	766	311	316	5	22.0				
at	312	Specks of pyrite, some jasper.	"	"	"	"	"				
at	313	Red Streak present with specks of pyrargyrite.	"	"	"	"	"				
at	313.9	Pink streak with specks of pyrargyrite.	"	"	"	"	"				
314	323	Siliceous chert-breccia with marcasite throughout.									
at	314.5	Pyrargyrite & red streaks pyrite & jasper fragments.	768	321	323	5	1.4				

FORM T-12

COLLAR:-
NORTH 14,488
EAST 5,309
ELEVATION 1,315
AZIMUTH 113
DIP -45
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 70
COMMENCED June 21, 1963
FINISHED Still drilling
PURPOSE OF HOLE Exploration Wolf #2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG. X W.		
		VEIN MATERIAL									
at	315	Jasper in the siliceous matrix, pyrargyrite in veinlets, some fragments of calcite.	766	311	316	5	22.0				
at	316	Pyrite crystals, galena specks & a red streak.	767	316	321	5	2.4				
at	317	Pyrite, calcite fragments and jasper fragments.	"	"	"	"	"				
at	317½	Calcite fragments and speck of argentite. Speck of pyrargyrite showing a red streak.	"	"	"	"	"				
at	318	Marcasite prevalent again, Epidote also present.	"	"	"	"	"				
323	325	Siliceous mixed chert-calcite-tuff fragment breccia, pyrite present.	768	321	326	5	1.4				
GREENSTONE (325	327	Calcareous andesite tuff breccia with pyrite.	"	"	"	"	"				
((											
(at	326	Specks of galena disseminated for about 2" in the tuff fragments.	"	"	"	"	"				
(327	328	Silicified tuffaceous mixed chert - tuff fragment breccia with pyrite and calcite fragments.	769	326	331	5	0.32				
(											
VEIN (											
MATERIAL (											
(328	332	Calcified siliceous andesite tuff breccia	"	"	"	"	"				
(											
(			770	331	336	5	0.50				
(											
(at	328	Galena specks in tuff fragments.	769	326	331	5	0.32				

FORM T-12

COLLAR:-
NORTH 14,488
EAST 5,309
ELEVATION 1,315
AZIMUTH 113
DIP -45
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 70
COMMENCED June 21, 1963
FINISHED Still drilling
PURPOSE OF HOLE Exploration Wolf #2 Vein.

FROM	TO	DESCRIPTION VEIN MATERIAL	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
at	330.5	Sphalerite and galena specks and pyrite in tuff fragments.	769	326	331	5.	0.32				
at	331	Pyrite	"	"	"	"	"				
332		Silicified andesite tuff breccia	770	331	336	5	0.50				
at	332	Solid pyrite for 2"	"	"	"	"	"				
333	335½	Silicified calcareous andesite tuff breccia with specks of galena, sphalerite and calcite.	"	"	"	"	"				
335½	343	Silicified calcareous chert breccia with pyrite finely disseminated throughout.	771	337	342	5	0.30				
at	336	Specks of galena	770	331	336	5	0.50				
336½	343	Sphalerite flakes (some well formed crystals present) disseminated thru siliceous matrix.	771	337	342	5	0.30				
343	343.5	Silicified tuffaceous andesite tuff breccia	772	342	346	5	0.64				
343.5	349	Siliceous chert breccia with pyrite and small masses of sphalerite (for 4")	773	346	351	4	0.18				
at	344	Many calcite and tuff fragments included in the siliceous chert breccia.	772	342	346	5	0.64				
at	345	Much sphalerite for approx. 4"	"	"	"	"	"				

FORM T-12

COLLAR:-

NORTH 14,488
EAST 5,309
ELEVATION 1,315
AZIMUTH 113
DIP -45
LEVEL Surface

DOLLY VARDEN MINES LIMITED

(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 70
COMMENCED June 21, 1963
FINISHED still drilling
PURPOSE OF HOLE Exploration Wolf #2 Vein.

FROM	TO	DESCRIPTION VEIN MATERIAL	CORE SAMPLES SAMPLE NO.	FROM	TO	WIDTH	ASSAYS AG. OZ.	% PB	AVERAGES AG X W	↓	REMARKS
at	346	Pyrite	773	346	351	4	0.18				
at	346.5	Calcite fragments	"	"	"	"	"				
at	347	Sphalerite flakes (showing well formed crystals)	"	"	"	"	"				
349	351.6	Calcified siliceous chert breccia with pyrite	774	351	356	5	Trace				
at	351	Specks of galena	"	"	"	"	"				
351.6	353	Siliceous chert-calcite fragment breccia w/pyrite	"	"	"	"	"				
(GREEN- 353	355	Silicified tuffaceous andesite tuff fragment breccia with pyrite	"	"	"	"	"				
(STONE											
355	365	Siliceous chert breccia with finely disseminated pyrite	775	356	365	5	0.18				
357	358	Veinlets of galena & fragments of calcite	"	"	"	"	"				
at	357.5	Fragments of jasper	"	"	"	"	"				
at	358	Speck of galena	"	"	"	"	"				
359	360	Galena and sphalerite finely disseminated	"	"	"	"	"				
359	362	Pyrite dissemination	"	"	"	"	"				
361	362	Sphalerite flakes	"	"	"	"	"				
362	365	Poor core recovery	NOT SAMPLED								
at	364	A fragment of galena	"	"							

FORM T-12

COLLAR:-
NORTH 14,488
EAST 5,309
ELEVATION 1,315
AZIMUTH 113
DIP -45
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 70
COMMENCED June 21, 1963
FINISHED Still drilling
PURPOSE OF HOLE Exploration Wolf #2 Vein.

FROM	TO	DESCRIPTION GREENSTONE	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
365	381.5	Siliceous rhyolite tuff fragment breccia	776	365	370	5	trace				
			777	370	375	5	trace				
			778	375	380	5	trace				
at	366	Specks of galena & sphalerite	776	365	370	5	trace				
at	367	Pyrite veinlets	"	"	"	"	"				
367	369	Poor core recovery									
at	368	Specks of sphalerite and galena	"	"	"	"	"				
at	369	Sphalerite specks	"	"	"	"	"				
at	369.5	Galena and sphalerite specks	"	"	"	"	"				
at	372	Evidence of chert	777	370	375	5	trace				
at	376	Trace of galena, specks of sphalerite	778	375	380	5	trace				
at	378	Speck of sphalerite	"	"	"	"	"				
at	378.5	Small masses of pyrite in veinlets	"	"	"	"	"				
380	381.5	Calcareous rhyolite tuff breccia	779	380	385	5	trace				
at	381	Specks of sphalerite and pyrite, trace of galena	"	"	"	"	"				
381.5	402.5	Siliceous rhyolite tuff breccia with finely disseminated pyrite	"	"	"	"	"				
			780	385	390	5	trace				
			781	390	402	12	0.2				
382	384.5	No sulphides (barren)	779	380	385	5	trace				
at	384	Trace of finely disseminated pyrite	"	"	"	"	"				

FORM T-12

COLLAR:-
NORTH 14,488
EAST 5,309
ELEVATION 1,315
AZIMUTH 113
DIP -45
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 70
COMMENCED June 21, 1963
FINISHED Still drilling
PURPOSE OF HOLE Exploration Wolf #2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
(at	389	Trace of finely disseminated pyrite	780	385	390	5	trace				
(390	394	Pyrite very finely disseminated	781	390	402	12	0.2				
(at	396	Specks of galena, particularly where joints are filled with epidote	"	"	"	"	"				
GREEN											
STONE (at	399	Specks of galena	"	"	"	"	"				
(at	402	Calcite and quartz stringers containing some sphalerite	783	402	406	4	trace				
VEIN (402.5	406	Siliceous chert breccia with pyrite	"	"	"	"	"				
MATERIAL (at	403	Specks of finely disseminated galena	"	"	"	"	"				
406	411	Tuffaceous rhyolite tuff with finely diss. pyrite	784	406	411	5	trace				
at	407	Trace of sphalerite	"	"	"	"	"				
at	408	Shear plane with gouge	"	"	"	"	"				
at	414	Calcite stringer	785	411	416	5	trace				
414	416	Poor core recovery	"	"	"	"	"				
at	415.5	Specks of galena	"	"	"	"	"				
416	419	Argillaceous rhyolite tuff breccia	786	416	419	3	trace				
at	419	Speck of galena	"	"	"	"	"				

FORM T-12

COLLAR:-
NORTH 14,487.41
EAST 5,304.96
ELEVATION 1,311.17
AZIMUTH 113 degrees
DIP -46 degrees 50'
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W.S. 72
COMMENCED July 8, 1963
FINISHED July 17, 1963
PURPOSE OF HOLE Exploration
Wolf No. 2 Vein.

FROM	TO	DESCRIPTION GREENSTONE	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
0	39	overburden									
39	41	Siliceous andesite tuff breccia	NOT SAMPLED								
at	40	Trace of finely disseminated pyrite									
at	40.5	Calcite stringer 1/8' thick with sphalerite									
41	43	Tuffaceous-andesite-tuff-breccia with trace of marcasite									
43	58	Silceous-andesite-tuff-breccia									
at	49½	Some calcite fragments									
58	60	Tuffaceous-andesite-tuff-breccia with quartz stringers 1/8' thick containing pyrite									
60	67	Silceous andesite tuff breccia									
60.5	67	The pyroxene fragments are somewhat larger than elsewhere in andesite-tuff-breccia									
67	71	Silicified-tuffaceous-andesite-tuff-breccia									
71	74.5	Siliceous-andesite-tuff-breccia with much pyroxene									
74.5	75.5	Tuffaceous-andesite-tuff-breccia with quartz stringer									

FORM T-12

COLLAR:-
NORTH 14,487.41
EAST 5,304.96
ELEVATION 1,311.17
AZIMUTH 113 degrees
DIP -46 degrees 50'
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W.S. 72
COMMENCED July 8, 1963
FINISHED July 17, 1963
PURPOSE OF HOLE Exploration
Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
75.5	77	Much pyrite and chlorite in tuffaceous andesite tuff breccia									
77	82.5	Chalcedony-chert-breccia with pyrite throughout									VEIN MATERIAL
82.5	83	Chalcedony mixed chlorite andesite tuff fragment breccia									" "
at	83	Chalcedony-chert breccia with jasper and pyrite	NOT SAMPLED								VEIN MATERIAL
83.5	86.5	Silicified chloritic andesite tuff breccia with marcasite and pyrite									" "
86.5	87	Chalcedony-chert fragment breccia with pyrite and specks of jasper									" "
87	93	Siliceous andesite tuff breccia with speck pyrite									GREENSTONE
93	95	Silicified chlorite andesite tuff breccia									" "
97.5	100.1	Chalcedony chert breccia with pyrite & marcasite	797	100	105	5	3.2				VEIN MATERIAL
at	98	2 specks of galena	"	"	"	"	"				" "
at	99	Tetrahedrite in small masses with jasper fragments	"	"	"	"	"				" "
at	99.5	Pyrite, jasper is concentrated around chert fragments	"	"	"	"	"				" "
100.1	102	Silicified chlorite mixed chert andesite tuff breccia	"	"	"	"	"				" "

FORM T-12

COLLAR:-

NORTH 14,487.41
EAST 5,304.96
ELEVATION 1,311.17
AZIMUTH 113 degrees
DIP -46 degrees 50'
LEVEL Surface

DOLLY VARDEN MINES LIMITED

(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W.S. 72
COMMENCED July 8, 1963
FINISHED July 17, 1963
PURPOSE OF HOLE Exploration
Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
102	105	Chalcedony-chert breccia with jasper & pyrite	797	100	105	5	3.2				VEIN MATERIAL
105	107	Calcified chalcedony chert breccia	798	105	107	2	4.8				" "
107	112	Chalcedony mixed chert calcite breccia w/marcasite	799	107	112	5	9.6				" "
112	115	Chalcedony mixed quartz calcite fragment breccia	800	112	115	3	7.4				" "
115	116	Chalcedony mixed andesite tuff calcite fragment breccia	792	115	116.5	1½	0.8				" "
116.5	119.1	Calcareous mixed chert calcite andesite tuff breccia	802	116.5	119.1	2.6	0.5				" "
119.1	121	Siliceous mixed andesite tuff calcite fragment breccia	803	119.1	121	1.9	0.7				GREENSTONE
121	124	Calcareous andesite tuff breccia with marcasite	809	121	124.5	3.5	0.5				"
124	124.5	Silicified calcareous andesite tuff breccia	"	"	"	"	"				"
124.5	128	Tuffaceous mixed andesite tuff chert fragment breccia	804	124.5	128	3.5	0.4				"
128	129	Chalcedony mixed chert andesite tuff fragment breccia	805	128	129	1	0.2				VEIN MATERIAL
129	132	Tuffaceous mixed chert calcite fragment breccia	806	129	132	3	0.6				" "

FORM T-12

COLLAR:-
NORTH 14,487.41
EAST 5,304.96
ELEVATION 1,311.17
AZIMUTH 113 degrees
DIP -46 degrees 50'
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W.S. 72
COMMENCED July 8, 1963
FINISHED July 17, 1963
PURPOSE OF HOLE Exploration
Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
132	134	Chalcedony mixed chert calcite fragment breccia	807	132	138	6	0.4				VEIN MATERIAL
134	138	Silicified tuffaceous andesite tuff fragment breccia	"	"	"	"	"				GREENSTONE
138	140.5	Chloritized chalcedony andesite tuff breccia pyrite in the chalcedony throughout	808	138	142.5	4.5	0.3				"
140.5	142.5	Silicified tuffaceous andesite	"	"	"	"	"				"
142.5	147	Silicified tuffaceous andesite tuff with pyrite	NOT SAMPLED								"
147	148	Calcareous chert breccia stringer with marcasite	"	"							"
148	151.3	Chalcedony andesite tuff breccia	"	"							"
151.3	160	Chalcedony andesite tuff breccia	"	"							"
160	160.6	Siliceous mixed calcite chert andesite tuff breccia	"	"							"
160.6	163.5	Tuffaceous andesite tuff breccia, stringers of calcite	"	"							"
163.5	166	Siliceous andesite tuff breccia	"	"							"
166	173.5	Andesite tuff with occasional stringers of calcite	"	"							"
173.5	209	Tuffaceous andesite tuff breccia	"	"							"
209	266	Tuffaceous andesite tuff breccia	"	"							"

FORM T-12

COLLAR:-
NORTH 14,487.41
EAST 5,304.96
ELEVATION 1,311.17
AZIMUTH 113 degrees
DIP -46 degrees 50'
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W.S. 72
COMMENCED July 8, 1963
FINISHED July 17, 1963
PURPOSE OF HOLE Exploration
Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
266	267.5	Calcified tuffaceous andesite tuff breccia	NOT SAMPLED								GREENSTONE
267.5	273	Tuffaceous andesite tuff breccia	"	"							"
273	273.6	Calcareous calcite fragment breccia	"	"							"
273.6	279.1	Andesite tuff	"	"							"
279.1	295	Calcareous andesite tuff breccia	"	"							"
295	299	Siliceous andesite tuff breccia, some calcite	"	"							"
299	299.6	Andesite tuff	"	"							"
299.6	301	Siliceous andesite tuff breccia	"	"							"
301	304	Tuffaceous andesite tuff breccia	810	301	304	3	trace				"
304	307	Calcified siliceous andesite tuff breccia with marcasite	811	304	307	3	1.8				VEIN MATERIAL
307	308	Silicified tuffaceous andesite tuff breccia	812	307	308.5	1.5	0.1				GREENSTONE
308	313	Tuffaceous andesite tuff breccia	NOT SAMPLED								"
313	313.6	Tuffaceous andesite tuff breccia - core badly broken	"	"							"
313.6	344.6	Tuffaceous andesite tuff breccia	"	"							"
344.6	345	Calcified tuffaceous andesite tuff breccia	"	"							"
345	368	Tuffaceous andesite tuff breccia	"	"							"

FORM T-12

DOLLY VARDEN MINES LIMITED

(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

COLLAR:
- NORTH 14,487.41
- EAST 5,304.96
- ELEVATION 1,311.17
- AZIMUTH 113 degrees
- DIP -46 degrees 50'
- LEVEL Surface

HOLE NO. W.S. 72
COMMENCED July 8, 1963
FINISHED July 17, 1963
PURPOSE OF HOLE Exploration
Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
368	372	Calcareous andesite tuff breccia	NOT SAMPLED								GREENSTONE
372	378	Tuffaceous andesite tuff breccia	"	"							"
378	382	Siliceous andesite tuff breccia	"	"							"
382	383	Tuffaceous andesite tuff breccia	"	"							"
383	390	Tuffaceous andesite tuff breccia	"	"							"
390	398	Calcareous andesite tuff breccia	813	392	398	6	0.1				"
398	404	Tuffaceous andesite tuff with pyrite									
404	406	Silicified tuffaceous andesite tuff - no mineralization by sulphide minerals at all									

FORM T-12

COLLAR:-
NORTH 14,411.63N
EAST 5,250.02E
ELEVATION 1,264.83
AZIMUTH 121 degrees 21'
DIP - 69 degrees 32'
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 78
COMMENCED November 11, 1963
FINISHED December 9, 1963
PURPOSE OF HOLE Exploration
Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	%Pb	AG X W		
0	6	Casing									
6	12	Gray agglomerate - broken core with 5 ft. missing									
12	23	Grey breccia intermixed with agglomerate, some calcite threading, shearing at 20'									
23	40	Siliceous grey fragments, volcanic. No visible mineral.									
40	126	Grey fragmental volcanics with some sections somewhat silicified. No visible mineral. Shearing 115-116'.									
126	133.	Coarsely brecciated volcanics.									
133	152.5	Grey volcanic breccia with calcite stringers from 142-152.5									
152.5	155	Vein matter - well mineralized with marcasite.	1638	152.5	155.0	2.5	2.24				
155	156	Lost core									
156	160	Vein matter. Considerable marcasite, jasper stringers.	1639	156.0	160.0	4	4.32				
160	165	Vein matter. Heavy with galena for 3 ft.	1640	160	165	5	72.36				
165	168	Vein - pyrite and some marcasite with considerable fine galena.	1641	165	168	3	32.40				

FORM T-12

COLLAR:-

NORTH 14,411.63 N
EAST 5,250.02E
ELEVATION 1,264.83
AZIMUTH 121 degrees 21'
DIP - 69 degrees 32'
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 78
COMMENCED November 11, 1963
FINISHED December 9, 1963
PURPOSE OF HOLE Exploration
Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	% PB	AG X W		
168	172	Vein - pyrite with marcasite and some galena	1642	168	172	4	30.22				
172	183	Grey breccia & agglomerate. Sheared at 181.5-182		172	177	5	0.78				
183	197	Grey fragmental volcanics. Slightly pyritized at times. Shearing from 183-184. Broken core at 185. Somewhat stronger pyrite at 196, with some jasper showing on shear planes.									
197	225	Grey fragmental volcanics.									
225.5	227.8	Qtz. pyrite vein matter with slight marcasite.	1643	225.5	227.8	2.3	1.76				
227.8	229.5	Grey Dyke									
229.5	232	Mixed dyke and volcanics									
232	233.3	Vein matter. Qtz-pyrite with a little marcasite	1644	232	233.3	1.3	1.56				
233.3	247.3	Grey fragmental volcanics									
247.3	248.3	Vein matter. Qtz breccia with fine jasper threading	1645	247.3	248.3	1.0	0.16				
248.3	261.5	Grey fragmental volcanics									
261.5	266.5	Brecciated vein matter - marcasite and small crystals of ruby silver.	1646	261.5	266.5	5.0	4.00				
266.5	271.5	Vein	1647	266.5	271.5	5.0	2.00				
271.5	276.5	Vein	1648	271.5	276.5	5.0	2.72				
276.5	281.5	Vein	1649	276.5	281.5	5.0	0.68				

FORM T-12

COLLAR:-

NORTH 14,411.63 N
EAST 5,250.02E
ELEVATION 1,264.83
AZIMUTH 121 degrees 21'
DIP - 69 degrees 32'
LEVEL Surface

DOLLY VARDEN MINES LIMITED

(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 78
COMMENCED Nov. 11, 1963
FINISHED Dec. 9, 1963
PURPOSE OF HOLE Exploration
Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG. X W		
281.5	286.5	Vein	1650	281.5	286.5	5.0	0.76				
286.5	291.5	Vein	1251	286.5	291.5	5.0	0.80				
291.5	296.5	Vein	1252	291.5	296.5	5.0	4.28				
296.5	299.0	Disseminated mineralization	1253	296.5	299.0	2.5	0.88				
299.0	301.5	Light grey volcanic breccia with calcite threading									
301.5	313.5	Dark grey volcanic breccia with calcite threading									
		END OF HOLE									

FORM T-12

COLLAR:
NORTH 14,636.54
EAST 5,180.04
ELEVATION 1,267
AZIMUTH 111 degrees 30'
DIP - 44 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 79
COMMENCED Feb. 15, - 1964
FINISHED
PURPOSE OF HOLE Exploration # 2 Vein
Wolf #2 Vein below the 1,200 Intervening ground -

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
0	17	Casing									
17	21	Grey Volcanic Breccia 12" Broken Core 20'-21'									
21	44	Grey Volcanic Breccia									
44	69	Grey Breccia, Calcite Threads, Broken Core at 59' 5'-60' Shearing and Oxidization 68'-68.25'									
69	91	Grey Fragmental Volcanics, Calcite Threads, Marcasite, broken core 74.75/81-82/86.5-87/									
91	95	Grey " " Calcite Stringers, some marcasite spots									
96	97	Broken Core									
97	100.5	Grey Fragmental Volcanics, Calcite Threading, slight mineralization									
100.5	102	" " " " " Broken Core									
102	115	Grey Fragmental Volcanics, Calcite & Quartz Threads, spotty mineralization									
115	121	" " " " " " " " "									
121	124	" " " " " " " Broken Core									
124	140	Light Tuff Dark Grey Volcanic Breccia, with Jasper, Calcite and Quartz Stringers, spotty marcasite.									

FORM T-12

COLLAR:-

NORTH 14,636.54
EAST 5,180.04
ELEVATION 1,267
AZIMUTH 111 degrees 30'
DIP - 44 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 79
COMMENCED Feb. 15th, 1964
FINISHED
PURPOSE OF HOLE Exploration #2 Wolf Vein intervening ground between 14,636 N.5180 E. and below the 1200 level

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
140	144	Dark Grey Volcanic Breccia Spotty Marcasite									
144	146	Dark Grey Volcanic Breccia Spotty Marcasite " Broken Core									
146	151.5	Dark Grey Volcanic Breccia Spotty Marcasite									
151.5	152	Dark Grey Volcanic Breccia Spotty Marcasite, Broken Core									
152	163.7	Dark Grey Volcanic Breccia Spotty Marcasite									
163.7	164	Dark Grey Volcanic Sheared - slight oxidization									
164	166	Coarse Fragmental Volcanics, Sheared with oxidization at 166									
166	169	Grey Volcanic Breccia, sheared at 169, slight oxidization									
169	170.5	Coarse Fragmental volcanics, Jasper, Quartz.	1266	169	170.5	1.5	1	52			
170.5	172	Grey Volcanic Breccia, broken core 6"									
172	173	Fine Grain Volcanic Breccia									
173	173.5	Fine Grain Volcanic Breccia with Vwgs.	1267	173	173.5	0.5	0	76			
173.5	178	Dark Grey Volcanic Breccia Slight Fe_2 S									
178	179	Dark Grey Volcanic Breccia Slight Fe_2 S									
179	181	Dark Grey, Coarse Volcanic Fragments, Quartz Fe_2 S.	1268	179	181	2.0	0	68			
181	182.5	Vein Matter	1269	181	182.5	1.5	7	40			
182.5	183	Vein Matter Grab at drill	1270	182.5	183	0.5	6	46			

FORM T-12

COLLAR:-

NORTH 14,636.54
EAST 5,180.04
ELEVATION 1,267
AZIMUTH 111 degrees 30'
DIP - 44 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED

(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 79
COMMENCED Feb. 15, 1964
FINISHED
PURPOSE OF HOLE Exploration # 2 Wolf Vein intervening ground between 14,636 N.5180 E. and below the 1200 level

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
183	187	Vein Matter	1271	183	187	4.0	15	52			

FORM T-12

COLLAR:-
NORTH 14,636.54
EAST 5,180.04
ELEVATION 1,267
AZIMUTH 111 degrees - 30'
DIP - 44 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 79
COMMENCED Feb. 15th, 1964
FINISHED
PURPOSE OF HOLE Exploration #2 Wolf Vein
Ex Intervening ground -

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
187	192	Vein Matter	1272	187	192	5. '	7.80				
192	197	" "	1273	192	197	5.	6.00				
197	201.5	" "	1274	197	201.5	4.5	11.36				
201.5	206	" "	1275	201.5	206	4.5	20.80				
206	211	" "	1276	206	211	5.0	7.84				
211	216	" "	1277	211	216	5.0	3.26				
216	221	Grey Volcanic Breccia, Quartz -	1278	216	221	5.	0.38				
221	225.5	" " " "	1279	221	225.5	4.5	0.34				
225.5	230.5	" " " "	1280	225.5	230.5	5.0	0.88				
230.5	235	" " " "	1281	230.5	235	4.5	1.16				
235	240	" " " Quartz Fe_2 S	1282	235	240	5.	0.04				
240	245	Dark silicified breccia " " "	1283	240	245	5.	0.06				
245	247	" " "	1284	245	247	2.	0.02				
247	250	" " "									
250	251	" " " 1' Broken Core									
251	255	Dark Volcanic Breccia									
255	259	Dark Volcanic breccia Quartz Threads									
259	260	" " " " "									

FORM T-12

COLLAR:
NORTH 14,636.54
EAST 5,180.04
ELEVATION 1,267
AZIMUTH 111 degrees - 30'
DIP - 44 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W. S. 79
COMMENCED Feb. 15, 1964
FINISHED
PURPOSE OF HOLE Exploration
Wolf #2 Vein below 1,200 level
Ex intervening ground

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
260	263	Grey Volcanic breccia, Quartz stringers									
263	268	" " " " "									
268	273	Light Grey Volcanic breccia " "									
273	275	High Silica Volcanic breccia, Fe_2 S.	1285	273 -	275	2'.	0.35				
275	276	Light Grey Volcanic breccia, broken core 1'									
276	282	Grey Volcanic breccia, Quartz stringers									
282	283.25	" " " 3" broken core 283/.25									
283.25	287	" " " Quartz stringers									
287	290	" " " Broken core 289.5/290									
290	293	" " " Quartz stringers									
293	296	" " " All broken core									
296	306	" " " Quartz stringers									
306	308	Grey Fragmental Volcanics Quartz stringers									
308	309	" " " Broken Core									
309	320.5	Dark Grey Volcanic Fragments									
320.5	322	" " " " Broken Core Slight Marcasite									
322	326	" " " " Quartz threads									
326	327	Light colored breccia									

FORM T-12

COLLAR:-
NORTH 14,636.54
EAST 5,180.04
ELEVATION 1,267
AZIMUTH 111 degrees 30'
DIP -44 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

DIAMOND DRILL RECORD

HOLE NO. W.S. 79
COMMENCED February 15th, 1964
FINISHED
PURPOSE OF HOLE Exploration #2 Vein
Wolf, intervening ground
ex at depth below 1,200 level.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG.		
327	329	Light silicious fragmental Volcanics									
329	331	Dark " " " Broken Core									
331	334	" silicious breccia Quartz threads									
334	336	Light " "									
336	351	" " " with Quartz threads									
351	360	Grey Volcanic breccia									
360	361	Volcanic breccia, Quartz stringers Ex Fragments Fe_2S.		360	361	1.00			15.12		
361	365	" " " "									
365	367	Volcanic breccia, Silicous, FeS_2		365	367	2.00			3.60		
367	372	" " Calcite stringers									
372	373.5	" " Silicious, Fe_2S. heavy Calcite		372	373.5	1.5			3.12		
373.5	393	Fragmental Volcanics, Quartz and Calcite stringers									
393	404	" " " stringers									
404	417	" " " Calcite & Quartz stringers									
417	418	" " Broken Core									
418		End of Hole									

FORM T-12

COLLAR:
NORTH 14,302
EAST 5,104
ELEVATION 1,185
AZIMUTH 133 degrees
DIP Minus 42 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)
SUNSHINE EXPLORATION

DIAMOND DRILL RECORD

HOLE NO. W.S. 81
COMMENCED June 4, 1964
FINISHED June 13, 1964
PURPOSE OF HOLE Exploration
Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
0	23	Casing									
23	35.9	F1. Type Fine grain dark Grey breccia									
35.9	36.0	Broken Core " " " "									
36.	47	F1. Type Fine Grain dark Grey "									
47	72	F1. Type, fine grain breccia, broken core at 50.9' - 51.3' & 59.5' - 60' & 61.9' - 62'.									
72	87	F3. Dark grained breccia broken core at 86.5' - 87'.									
87	94	F3. Type dark Grey, Fragments more massive									
94	94.5	Black mud and broken core -									
94.5	99.	F3. Lighter grey with larger fragments									
99.	100.5	F3. " " broken core									
100.5	104	F3. Type Calcite & quartz stringers									
104	106	F3. Type with broken up core									
106	112	F3. Type - calcite - quartz stringers									
112	112.5	F3. " broken core									
112.5	114	F3. " with quartz stringers									
114	116	F3. " broken core									

FORM T-12

COLLAR:-
NORTH 14,302
EAST 5,104
ELEVATION
AZIMUTH 133 degrees
DIP: Minus 42 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)
SUNSHINE EXPLORATION

DIAMOND DRILL RECORD

HOLE NO. W. S. 81
COMMENCED June 4th, 1964
FINISHED June 13th, 1964
PURPOSE OF HOLE Exploration
Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
116	121	F3. Type breccia with Quartz webbing									
121	146	F3. " " " broken core at 125.5/126 and at 136.3 the rock assumes a motley silicious aspect to 140' - when it assumes normal characteristics.									
146	148.5	F3. Type - some small Quartz stringers									
148.5	150.5	F3. Type shearing & broken core with Fe_2 S mineralization along plane of shear									
150.5	157.5	F3. Type with broken core at 157-157.5									
157.5	159.5	Motley quartz breccia decidedly chloritic in appearance, Fe_2 S.	1370	157.5	159.5	2'	4.10	-			
159.5	169	F2. Type - broken core at 168-169									
169	181	F2. "									
181.2	186.5	Vein material, chloritic in appearance with Fe_2 S & dispersed spots of PbS	1418	181.2	186.5	5.3'	0.44	0.10			Eldridge - Assay
186.5	191	" " " " " " " "	1419	186.5	191	4.5'	0.48	0.10			Eldridge Assay
191	197.6	" " " " " " " "	1420	191.0	197.6	6.6'	0.66	0.08			" "
197.6	202.8	" " " " " " " "	1421	197.6	202.8	5.2'	0.52	0.05			" "

FORM T-12

COLLAR:-
NORTH 14,302
EAST [illegible],104
ELEVATION 133 degrees
AZIMUTH Minus 42 degrees
DIP Surface
LEVEL

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)
SUNSHINE EXPLORATION

DIAMOND DRILL RECORD

HOLE NO. W. S. #81
COMMENCED June 4th, 1964
FINISHED June 13th, 1964
PURPOSE OF HOLE Exploration
Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG. X W		
208	211	Vein material, chloritic in appearance with Fe_2 S. & dispersed spots of PbS	1423	208	211	3.0	1.20	0.05			Eldridge-assay
211	214	" " " "	1424	211	214	3.0	1.90	0.08			"
214	217	" " 4" of solid PbS, medium fine PbS.	1425	214	217	3.0	9.30	13.49			"
217	222	Vein material, Fe_2S, coarse dispersed grains of galena	1426	217	222	5.0	0.72	0.08			"
222	222.6	" " " "	1427	222	226.6	4.6	1.40	0.28			"
226.6	231.6	" " "less mineralization	1428	236.6	231.6	5.0	0.56	0.12			"
231.6	242	F 2 Type Frag.Vol. broken core at 240									
242	244.5	F 3 " " " hair streak Fe_2 S									
244.5	253.	F 3 " " " broken core 252-253									
253	260	F 3 " " " Quartz stringers broken core 259-260									
260	269.5	F 2 Type Quartz threads, broken core at 269-269.5									
269.5	294	F 3 Type with larger Fragments and Quartz stringers, motley at 271									
294	300.5	F 2 Type Quartz & Calcite stringers Broken Core 300-300.5									

FORM T-12

COLLAR:-
NORTH 14,302
EAST 5,104
ELEVATION 133 degrees
AZIMUTH Minus 42 degrees
DIP Surface
LEVEL

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)
SUNSHINE EXPLORATION

DIAMOND DRILL RECORD

HOLE NO. W. S. # 81
COMMENCED June 4th, 1964
FINISHED June 13th, 1964
PURPOSE OF HOLE Exploration
Wolf No. 2 Vein

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
300.5	307.5	F2 Type broken core 307-307.5									
307.5	315.5	Calcite shear with Fe_2 S along shear plane at 315.5									
315.5	316.6	Calcite & Quartz - no mineralization									
316.6	330	F1 Type - with Calcite Quartz stringers sheared and broken at 329-330									
330	348.5	F 1 Type with calcite quartz stringers broken core at 347-348.5									
348.5	369	F 1 with large fragments broken core at 367-368									
369	378	F1 Type - Badly broken up core at 375.5 - 376.5									
378		END OF HOLE									

FORM T-12

COLLAR:
NORTH 14,303 N.
EAST 5,100 E.
ELEVATION 1185 (Approx)
AZIMUTH 80 Degrees
DIP 46 Degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)
SUNSHINE EXPLORATION

DIAMOND DRILL RECORD

(1)

HOLE NO W. S. 82
COMMENCED June 22, 1964
FINISHED July 1st - 1964
PURPOSE OF HOLE Exploration
Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ.	%Pb	AG X W		
0	22	Casing									
22	30	Fl. Type Calcite & Quartz stringers									
30	35	Dark Grey dyke - no pronounced fragments.									
35	37	Fl. Type very fine fragments									
37	40	Fl. Type badly broken core.									
40	43.5	Fl. " dark grey Color, fine fragments.									
43.5	67.5	Fl. Type fine fragments broken core 64.5/65.5.									
67.5	75.5	Fl. Type fine fragments. Few Quartz calcite stringers.									
75.5	77	Fl. Type, broken core, fine fragments.									
77.	91	Fl. Type, fine fragments									
91.	105	Fl. Type, fine fragments, Quartz & Calcite stringers, broken core 96-97.									
105	114.5	F.3 Large fragments, lighter rock, broken core 112 - 114									

FORM T-12

COLLAR:-
NORTH 14,303
EAST 5,104
ELEVATION 1195' Approx.
AZIMUTH 80 Degrees
DIP Minus 46 Degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)
SUNSHINE EXPLORATIONS

DIAMOND DRILL RECORD

(2)

HOLE NO W. S. 82
COMMENCED June 22, 1964
FINISHED July 1st, 1964
PURPOSE OF HOLE Exploration
Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ	% Pb	AG X W		
114.5	140	F.2 Type Quartz & Calcite threading, broken core 122.5-123.-137.5-138.									
140	144	F.2 Type, broken core.									
144	159	F.2 Type, slight threads, Calcite & Quartz, shearing at 154.									
159	159.25	F.4 Seam									
159.25	164.75	F.2 Type									
164.75	165	F.2. 3" seam of F 4.									
165	166	F.2. Quartz & Calcite stringers with seam of F.4 at 166.									
166	168	F.2. All broken core.									
168	188.2	F.2. Quartz seam with vug at 188.									
188.2	190	F.2. Broken core & slight shear.									
190	213.5	F.2. Type Quartz-Calcite threading, broken core 212.5 - 213									
213.5	215.5	F.2. Type, broken core 214 - 215 Quartz vug @ 215.5.									
215.5	224	F.2. Quartz & Calcite threads.									

FORM T-12

COLLAR:
NORTH 14,303
EAST 5,104
ELEVATION 1185 Approx.
AZIMUTH 80 Degrees
DIP Minus 46 Degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)
SUNSHINE EXPLORATION

DIAMOND DRILL RECORD

HOLE NO. W. S. 82
COMMENCED June 22, 1964
FINISHED July 1st, 1964
PURPOSE OF HOLE Exploration
Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
224	225	F.2 - Broken Core Quartz & Calcite									
225	231.5	F.2 - Quartz & Calcite threads									
231.5	233	F.2 - Type Broken Core Quartz & Calcite threads									
233	243.5	F.3 - "									
243.5	247	Vein structure, motley type, slightly chloritic - poorly mineralized.	137.2	243.5	247	3.5	4.28				
247	252	" " " "	137.3	247	252	5.0	1.32				
252	257	" " " "	137.4	252	257	5.0	0.48				
257	258.5	" " " "	137.5	257	258.5	1.5	0.44				
258.5	260	" " " "	137.6	258.5	260	1.5	2.12				
260	268	F.4. Motley type									
268	269	F.4. Type, broken core									
269	274	F.4. Type, Calcite Quartz stringers									
274	276.8	Vein structure silicous-poor structure	137.7	274	276.8	2.8	0.40				
276.8	282.5	" " motley " " "	137.8	276.8	282.5	5.7	0.56				
282.5	285.5	" " " " " "	137.9	282.5	285.5	3.0	0.20				
285.5	289.5	F.4 Type, broken core @ 287.5-288									
289.5	310	F.1.Type Heavy Quartz bands.									

FORM T-12

COLLAR:
NORTH 14,303
EAST 5,104
ELEVATION 1185 Approx.
AZIMUTH 80 Degrees
DIP Minus 46 Degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)
SUNSHINE EXPLORATION

DIAMOND DRILL RECORD

HOLE NO W. S. 82
COMMENCED June 22, 1964
FINISHED July 1st, 1964
PURPOSE OF HOLE Exploration
Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG OZ	%PB	AG X W		
310	327.5	Mostly F.4 & F.3. - Motley, with Quartz & Calcite - No mineral									
327.5	333.5	F.1. Type broken core, dark color									
333.5	358	F.1. Type, plentiful Quartz & Calcite banding Fe_2S at 353 - dark color									
359	364	F.1 Type - Some Quartz & Calcite Spots									
364	381	F.4 Type & F.1 mix Quartz & Calcite threading									
381	391	F.4 Type & F.1 mix, broken core 382.5/383									
391	393	F.4 Type									
393		End of hole.									

FORM T-12

COLLAR:
NORTH
EAST 4871
ELEVATION 1180
AZIMUTH South 63 Degrees E.
DIP Minus 46 Degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)
SUNSHINE EXPLORATION

DIAMOND DRILL RECORD

(1)

HOLE NO. W. S. 83
COMMENCED July 2nd, 1964
FINISHED
PURPOSE OF HOLE Exploration
Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	%Pb	AG X W		
0	25	Casing									
25	34	Graphite silicous argillite - Quartz threads, slight Fe. S_2 - 3.5 ft. of lost core-core broken.	This will be logged as black argillite - For the time being - pending code number allotted.								
34	37	Black argillite sheared at 36.9 & broken core 2' lost.									
37	60	Black argillite broken core with Fe S_2 mineralization along bedding planes and abundance of Quartz webbing, lost core 1.5 feet at 52.5' and 58' broken core 50-52.5 - Broken core at 56-58' with 2' of core missing - 42.2'-40.5' sent to J.B.C. Bedding plane angles vary in this case. Flat.									
60	66	Black argillite - cores more regular with few Quartz stringers & Fe S_2 along bedding planes. These are 1/8" thick.									
60	66	Bedding planes average an angle of 60° + - 63'-63.9' sent to J.B.C.									
66	90	Black argillite, slight Fe S_2 mineralization, broken core 84-87 - slight irregular Quartz threads.									
90	98.5	Black argillite - bedding planes heavily mineralized with Fe. S_2 - 1/8" thick at an angle of 30°. Very few X threads.									

FORM T-12

COLLAR:
NORTH
EAST 4871
ELEVATION 1180
AZIMUTH South 63 Degrees E
DIP Minus 46 Degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)
SUNSHINE EXPLORATION

DIAMOND DRILL RECORD

HOLE NO. W. S. 83
COMMENCED July 2nd, 1964
FINISHED
PURPOSE OF HOLE Exploration
Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ	% PB	AG X W		
		(Continued)									
98.5	102.5	Black argillite, broken core, few Quartz threads - 10° - 15° + - bedding.									
102.5	112	Black argillite, broken core 107.5 - 112', flat bedding.									
112	149	Black argillite - Follows general description, bedding planes of 0°/60°, heavy Fe S_2 mineralization in bedding planes 1/16 - 1/8" thick. Broken core 118.5/119' - 123'-124' - 131' - 131.5' = 136.5'-137' - irregular Quartz threads - broken core 141 - 149 & 147 - 149									
149	165	F. 3 Type structure - abrupt change to the volcanic fragments, Quartz webbing and threads throughout. Slight shear at 157.2 - no mineralization.									
165	180	F. 3 Type - volcanic breccia, broken core at 174.9-175 = 179.7 - 180 Quartz stringers.									
180	182.5	F. 4 Type - no mineralization.									
182.5	189	F. 2 Type - volcanic breccia - broken core 182.5-186 = 187.5 - 189. Core missing 6" between 186 - 189									

FORM T-12

COLLAR:-
NORTH
EAST 4871
ELEVATION 1180
AZIMUTH South 63 Degrees E.
DIP Minus 46 Degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)
SUNSHINE EXPLORATION

DIAMOND DRILL RECORD

HOLE NO. W. S. 83
COMMENCED July 2nd, 1964
FINISHED
PURPOSE OF HOLE
Exploration
Wolf No. 2 Vein

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
189	194	F. 3 Highly silicified breccia - no mineral									
194	195.5	F. 2 Type - silicified Quartz, threads									
195.5	196.5	F. 2 Type - Broken core									
196.5	200	F. 2 Type - Quartz threading 60° bedding									
200	201	F. 2 Type - Broken core									
201	203.5	F. 2 " - No mineral									
203.5	206	F. 2 " - Broken core									
206	213	F. 2 " - Bedding mostly 60°									
213	214	F. 2 " - Broken core									
214	219	F. 2 " - Quartz webbing 220.5/221									
219	220	F. 2 " - Crushed core									
220	229	F. 2 " - Slight Quartz threads									
229	230	F. 2 " - Crushed core									
230	234	F. 2 " - Broken core									
234	241	F. 2 " - Quartz stringers slight Fe S_2									
241	242	F. 2 " - Broken core									
242	243.5	F. 2 " - 3' Core missing - broken core									

FORM T-12

COLLAR:
East 4871
Elevation 1180
Azimuth South 63 Degrees E.
Dip Minus 46 Degrees
Level Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)
SUNSHINE EXPLORATION

DIAMOND DRILL RECORD

HOLE NO. W. S. 83
COMMENCED July 2, 1964
FINISHED
PURPOSE OF HOLE Exploration
Wolf No. 2 Vein.

FROM	TO	DESCRIPTION (continued)	CORE SAMPLES SAMPLE NO.	FROM	TO	WIDTH	ASSAYS AG. OZ.	% Pb	AVERAGES AG X W		REMARKS
243.5	246	F. 2 - Some Quartz stringers									
246	248.5	F. 2 - " Slight Quartz stringers									
248.5	266	F. 2 - Few Quartz stringers									
266	286.5	F. 2 - Darker grey - better drilling - more uniform cores.									
286.5	296	F. 2 - 3.5 feet Core missing - Light grey - very silicious									
296	296.5	F 2 - Broken core									
296.5	307	F.1 - Highly silicious									
307	310	F. 1 - Dark grey - " Quartz threads									
310	314	F. 1 - " " " " "									
314	319.5	F. 1 - " " " " "									
319.5	320	F. 1 - " " - Broken core									
320	330.5	F. 1 - " " - Silicious - No mineral									
330.5	334	F. 1 - " " - " - Broken core									
334	339.5	F. 2 - High silica - No mineral									
339.5	343.8	F. 2 - Broken core 342.3 - 343.8 - 1' core missing									

FORM T-12

COLLAR:

East 4871
Elevation 1180
Azimuth South 63 Degrees E.
Dip Minus 46 Degrees
Level Surface

DOLLY VARDEN MINES LIMITED

(NON-PERSONAL LIABILITY)

SUNSHINE EXPLORATION

DIAMOND DRILL RECORD

HOLE NO. W. S. 83
COMMENCED July 2, 1964
FINISHED
PURPOSE OF HOLE Exploration

Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
		(continued)	SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
343.8	352	F.2 - Very badly shattered core 4' lost - soft ground at 351.5/352									
352	357	F.2 - Mud @ 355' - broken core throughout, 2' missing Quartz threads									
357	360	F.2 - Very soft, broken core, 2' lost									
360	363	F.2 - Soft, broken core, 1' lost									
363	367	F.2 - Fragments 1" - 2" long - 366+ broken core 367 - making water									
367	372	F.2 - Broken core - 371.25 - 372 - Quartz threads									
372	376	F.2 - Quartz threads									
376	378.2	F.3 - " " Broken core 378.2									
378.2	380	F.3 - " " 6" core lost									
380	389	F.2 - Lighter color mud - soft structure									
389	398	F.? - Light grey, Quartz threading - sand and broken core 398									
398	402	F.2 - Sand - broken core at 401.5 - 6" core lost - sand reported 398									

FORM T-12

COLLAR:-
NORTH
EAST 4871
ELEVATION 1181
AZIMUTH South 63 Degrees E.
DIP Minus 46 Degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)
SUNSHINE EXPLORATION

DIAMOND DRILL RECORD

HOLE NO. W. S. 83
COMMENCED July 2, 1964
FINISHED
PURPOSE OF HOLE Exploration
Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
		(continued)	SAMPLE NO.	FROM	TO	WIDTH	AG OZ.	% Pb	AG X W		
402	405	F. 2 - Light core in broken segment 2" - 3" long. Silicious with Quartz threads, 2' of core missing									
405	410	F. 2 - Type breccia, broken core 407 - 410 dark grey									
410	418	F. 2 - Type breccia - light grey, Quartz threads, light grey									
418	432	F. 2 - Type with darker shade of grey - broken core at 422.5/424 also at 426/431.5, Quartz threads - F. 4 Type tuff material dyke 430 - 432									
432	455	F. 1 - Dark silicious - fine grained - F. 4 dyke - 440 - 442 - Quartz stringers with minor Fe S_2									
455	474	F. 1 - Lighter color - slightly chloritic - broken core 458 - 460									
474	475	F. 2 - Highly silicious with slight purple color but without mineral									
475	480	F. 3 - Slightly chloritic - broken core at 475-476 & 478 - 480. Quartz strings - slight scattered Fe S_2									

FORM T-12

COLLAR:
NORTH
EAST 4871
ELEVATION 1181
AZIMUTH South 63 Degrees E.
DIP Minus 46 Degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)
SUNSHINE EXPLORATION

DIAMOND DRILL RECORD

HOLE NO. W. S. 83
COMMENCED July 2, 1964
FINISHED
PURPOSE OF HOLE
Exploration
Wolf No. 2 Vein.

FROM	TO	DESCRIPTION (continued)	CORE SAMPLES SAMPLE NO.	FROM	TO	WIDTH	ASSAYS AG. OZ	% Pb	AVERAGES AG X W		REMARKS
480	485	F. 3 Type - Vein material - well mineralized	1380	480	485	5'	38.60				
485	490	F. 3 " " " Fe S_2 slight Pbs	1381	485	490	5'	43.48				
490	492	F. 3 " " " Mostly Pbs 8 - Fe S_2	1382	490	492	2'	103.08				Abrupt cut off
492	504	F. 1 " Slight traces mineral									slight traces mineral
504	507	Lamprophyre dyke material - dark in color									
507	512	F. 3 - Highly silicious - slightly chloritic very poor mineralization									
512	553	F. 3 Type - Highly silicious - very poor mineralization - Quartz threads F. 2 Type at 548' - 550 & 552 - 553									
		Broken core - 534 - 535.5 525 - 533 is motley silicious vein like material very poorly mineralized									
553	555	F. 3 - Light grey color - broken core 2' - Quartz stringers - scattered sparsely									
555	585	F. 3 - Type alternating light & dark grey in color - sparse Quartz stringers - broken core 584.5 - 585 - shearing & bedding appears to be about 40° average throughout									
585		End of hole.									

FORM T-12

COLLAR:
NORTH 13,755
EAST 5,372
ELEVATION 1,225
AZIMUTH North 35 degrees West
DIP -38 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)
SUNSHINE EXPLORATION

DIAMOND DRILL RECORD

(1)

HOLE NO. W.S. 90
COMMENCED October 3, 1964
FINISHED October 8, 1964
PURPOSE OF HOLE Exploration
Wolf No. 3 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ	% PB	AG X W		
0	10	Casing									
10	30	F2 - 1' core missing 12' - 15' very coarse volcanic fragments - light gray									
30	48	F2 - coarse grain - light gray - quartz calcite threads									
48	68	F2 - light colored coarse grained breccia, quartz calcite threads									
68	77	F2 - light colored coarse breccia, quartz calcite threads, rocky ground, broken core 73 - 76									
77	96	F2 - type light colored gray, coarse fragments quartz, calcite threads, highly siliceous, broken core 94 /96'									
96	111	F2 - type light color, very badly broken throughout - 96/111 lost 5' core									
111	122	F2 - type very light gray, oxidization on sheared clearage plane - 4' lost									
122	145	F2 - very light color plentiful quartz calcite									
145	164	F2 - very light colored tuff, quartz calcite stringers, coarse fragments									

FORM T-12

COLLAR:-
NORTH 13,755
EAST 5,372
ELEVATION 1,225
AZIMUTH North 35 degrees West
DIP -38 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)
SUNSHINE EXPLORATION

DIAMOND DRILL RECORD

(2)

HOLE NO. W.S. 90
COMMENCED October 3, 1964
FINISHED Ocotber 8, 1964
PURPOSE OF HOLE Exploration
Wolf No. 2 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% PB	AG X W		
164	186	F2 type F1 @ 171 - 172 & 174 - 176 = broken core @ 182 - 184									
186	206	F4 - 186/202 = motley webbing of quartz & calcite 202/204 = F2 204/206 - very light colored breccia									
206	226	F2 - F4 mixed to 216 = F1 - 216 - 223 motley of quartz & calcite 223/226									
226	246	Motley of F4/F1 - 226/236, combination of quartz calcite stringers - F1 - 236/246									
246	266	F1/F2 - quartz calcite threads, no mineral									
266	277.5	F2/F1 - motley of quartz calcite webbing particularly at 276 - 277.5									
277.5	297.5	F1 - quartz calcite stringers, broken core 291.5/292									
297.5	319.5	F1 - broken core 316/317 - quartz calcite stringers									
319.5	341	F1 - type quartz & calcite strings, broken core 326/327 = F2 breccia 325/327									

FORM T-12

COLLAR:-

NORTH 13,755
EAST 5,372
ELEVATION 1,225
AZIMUTH North 35 degrees West
DIP -38 degrees
LEVEL Surface

DOLLY VARDEN MINES LIMITED

(NON-PERSONAL LIABILITY)

SUNSHINE EXPLORATION

DIAMOND DRILL RECORD

(3)

HOLE NO. W.S. 90
COMMENCED October 3, 1964
FINISHED October 8, 1964
PURPOSE OF HOLE Exploration
Wolf No. 3 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
			SAMPLE NO.	FROM	TO	WIDTH	AG. OZ	% PB	AG X W		
341	358	F1 type quartz calcite stringers, broken core 343/344 = 346.5/347.									
358	375	F.1 Broken core 362.5/364 - F.2 very light grey 366/373.									
375	395	F.1 Broken core at 376.5/378 and 387/388 - Plentiful Quartz Calcite - stringers strong at 388.5 & 392. No mineralization.									
395	415	F.1 Breccia broken core 398/400 - Quartz calcite stringers - 410.8/411.									
415	435	F.1 Broken core 415/416 - Quartz & Calcite stringers.									
435	453	F.1 With Quartz & calcite stringers and some large fragments of F 2. - broken core 451/453 & 449/450.									
453	471	F.1 type - Broken core 456/459 = 466.5/467 - Quartz & calcite stringers.									
471	491	F.1 type - Broken core 476.5/477 = Quartz calcite stringers - Slight Fe S_2 at 472.5.									
491	510	F.1 Breccia broken core 495/496 - Quartz calcite threads.									

FORM T-12

COLLAR:-
NORTH 13,755
EAST 5,372
ELEVATION 1,225
AZIMUTH North 35 degrees West
DIP - 38
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)
SUNSHINE EXPLORATION

DIAMOND DRILL RECORD

HOLE NO. W.S. 90
COMMENCED October 3, 1964
FINISHED October 8, 1964
PURPOSE OF HOLE Exploration
Wolf No. 3 Vein

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
		(continued)	SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
510	529	F.2 - Very light grey colored breccia - Quartz - calcite stringers - ground core 522/523.									
529	539	F.2 type to 533 then 533/539 - F. 1 Quartz calcite stringers.									
X539	549	F.1 Loose ground Fe S_2 minor quantities (9' lost)	1832	539	549	10-0	0-24				
X549	562	F.1 Loose ground Fe S_2	1833	554	557	3.0	12.24				
X562	580	F.1 Fe S_2 562/569 = (2' core lost) 569/575	1834	557	559	2.0	0.96				
		Broken core 562/575.	1835	559	562	3.0	3.60				
580	589	F.1. Diabasic dykes 586/586.5	1836	562	569	7.0	4.28				
		Broken core 584.5/585.	1837	569	575	6.0	0.4				
589	602	F.1. Quartz calcite threads - diabasic dyke - 597.5/609.									
602	609	F.1 Slight Fe S_2									
609	623	F.1 Very few Quartz calcite threads - Minor mineralization.									
X623	627	F.1 Small dyke carbonaccous shale mineralized at contact.	(1838	623.3	623.8	0.5	0.72				

FORM T-12

COLLAR:-
NORTH 13,755
EAST 5,372
ELEVATION 1,225
AZIMUTH North 35 degrees West
DIP - 38
LEVEL Surface

DOLLY VARDEN MINES LIMITED
(NON-PERSONAL LIABILITY)

SUNSHINE EXPLORATION

DIAMOND DRILL RECORD

HOLE NO. W. S. 90
COMMENCED October 3, 1964
FINISHED October 8, 1964
PURPOSE OF HOLE Exploration
Wolf No. 3 Vein.

FROM	TO	DESCRIPTION	CORE SAMPLES				ASSAYS		AVERAGES		REMARKS
		(continued)	SAMPLE NO.	FROM	TO	WIDTH	AG. OZ.	% Pb	AG X W		
X627	646	F.1. Fe S_2 - sampled from 627 - 643.	(1839	627	631	4'	1.20				
			(1840	631	635	4'	10.96				
646	656	F.1. type breccia not well mineralized but	(1841	635	639	4'	0.44				
		siliceous	(1842	639	646	7'	0.01				
		Test sampled (grabs)	(1843	646	656	10'	0.02				
656	679	F. 2 - 656/660 - F.1 - 660/666									
		F. 2 - 666/679 - Very light siliceous breccia - broken coare 674/675.									
679	699	F. 2 - Light color - highly siliceous with Quartz calcite stringers.									
699	718	F.2 - 699-713 - F.1-713-718.									
718	728	F. 2 - 718 - 722 = F.1 - 722 - 728 - Lost core 1'									
728	-	END OF HOLE									

ORE RESERVES

Large tonnages of ore are indicated by diamond drill holes and additional large tonnages can be inferred.

Work necessary to block out ore by conventional methods has been started but little ore has been opened up for mining as yet.

The orebodies in general have a gradational grade from one wall or from the centre. Grades and tonnages can be altered considerably depending on mining methods decided upon, most walls are assay walls.

Before the staff changed at the Sunshine Mining Company, a study, including a model of the Torbrit mine, was made with the following showing on working papers:-

Torbrit Mine

Total Tons 7,146,562 grading 4.8 ounces Ag.
cut to 3.9 ounces Ag.
in possible open-pit area.
Of this tonnage:
1,348,546 could be caved or mined underground at 9.41 ounces Ag., the balance being left.

Sunshine engineers had recommended 12,000 feet of underground drilling to prove these tonnages.

Wolf Mine (Sunshine Working papers).

No. 1 A	vein	not developed except from trenches.
No. 1	vein	54,000 tons grading 12.0 oz. Ag.
No. 2	vein	617,985 tons grading 7.6 oz. Ag.
No. 3	vein	No mineable reserves as yet.
No. 4	vein	No mineable reserves as yet.

North Star Mine (Sunshine working papers)

141,317 tons grading 12.20 oz. Ag.

Dolly Varden Mine (Sunshine working papers)

30 - 50,000 tons grading 20 ounces Ag?

.....

A.C. Skerl, Ph.D., gave the following tonnages (Skerl did not examine the Torbrit for reserves):-
(April 25, 1964).

	Proved		Probable		Possible	
	Tons Short	Grade Oz. Ag.	Tons Short	Grade Oz. Ag.	Tons Short	Grade Oz. Ag.
Wolf	130,000	12.8	90,000	12.7	35,000	8.0
North Star	125,000	12.5	15,000	12.5	15,000	12.5
Dolly Varden	---	---	47,000	22.0	not estimated	
	255,000	12.7	152,000	15.6	50,000	9.3

Total reserve 457,000 tons at 13.2 oz. Ag. per ton.

These figures were given without any attempt to plot or estimate possibilities of the Dolly Varden structure; before the deeper drilling on the Wolf; without being requested to study the Torbrit; and giving no figures for the downward and lateral extensions of the North Star. Skerl was not asked to study any of these matters.

All tonnages require studies as to mining methods and grades calculated to various widths.

Large tonnages are known in areas of the Dolly Varden, Wolf and North Star if costs allow lower grades at high tonnages to be mined.

Additional areas of low grade are known.

All above grades are cut values.

Inferred ore tonnages are large.

EXPLORATION AND DEVELOPMENT PROJECTS

Many localities on the claims have indications showing that prospecting, diamond drilling and underground development projects should be undertaken.

These can be outlined as follows, (not necessarily in order of importance):-

LATERAL AREAS

The long length of the Dolly Varden vein and the inference made by Dr. A.C. Skerl and several others that the orebodies may rake across this vein near contacts of the bluish breccia and greenstone give great lengths to be explored on this structure. Little has been done on lateral extensions of the Dolly Varden-North Star structure.

The Torbrit mine was operated, mined and explored between two dyke clusters. Little exploration exists beyond these two limiting structures. There appears to be no reason why the ore should not continue in both directions beyond the dykes as ore does occur between dykes and on the North Star diamond drilling proved the ore to continue past such dykes. Sunshine's geologist had agreed that a number of diamond drill holes would be placed beyond both structures.

On the Wolf, the No. 2 vein has not been located to the north beyond the "limiting" fault. Diamond drilling in this area is warranted. The shale area could be used as a good fault-marker.

The area north of the Wolf and between the Silver Butte zone on the boundary has not been explored although ore occurs on both sides of this 1500 foot gap.

The No. 1 and 1A Wolf veins have not been explored along their strikes although a rough reconnaissance of the claim to the north of these veins uncovered excellent float. Scutherly, a vein occurs in the bed of the Kitsault river which could be either the No. 1 or No. 1A.

DEPTH POSSIBILITIES

Both the No. 2 Wolf and the North Star have excellent diamond drill intersections in their deepest holes.

The No. 2 Wolf Vein.
Surface hole #83
12 feet of core assaying 51.4 oz. Ag.
400 feet below workings.

...../Continued

The North Star Vein.
Surface Hole #16
18.5 feet of core assaying 1.3 oz. Ag.
3.6% Pb.
5.1% Zn.
300 feet below workings.

The Torbrit orebody should plunge downward below the dyke structures mentioned in the general outline of the Torbrit mine.

COPPER BELT

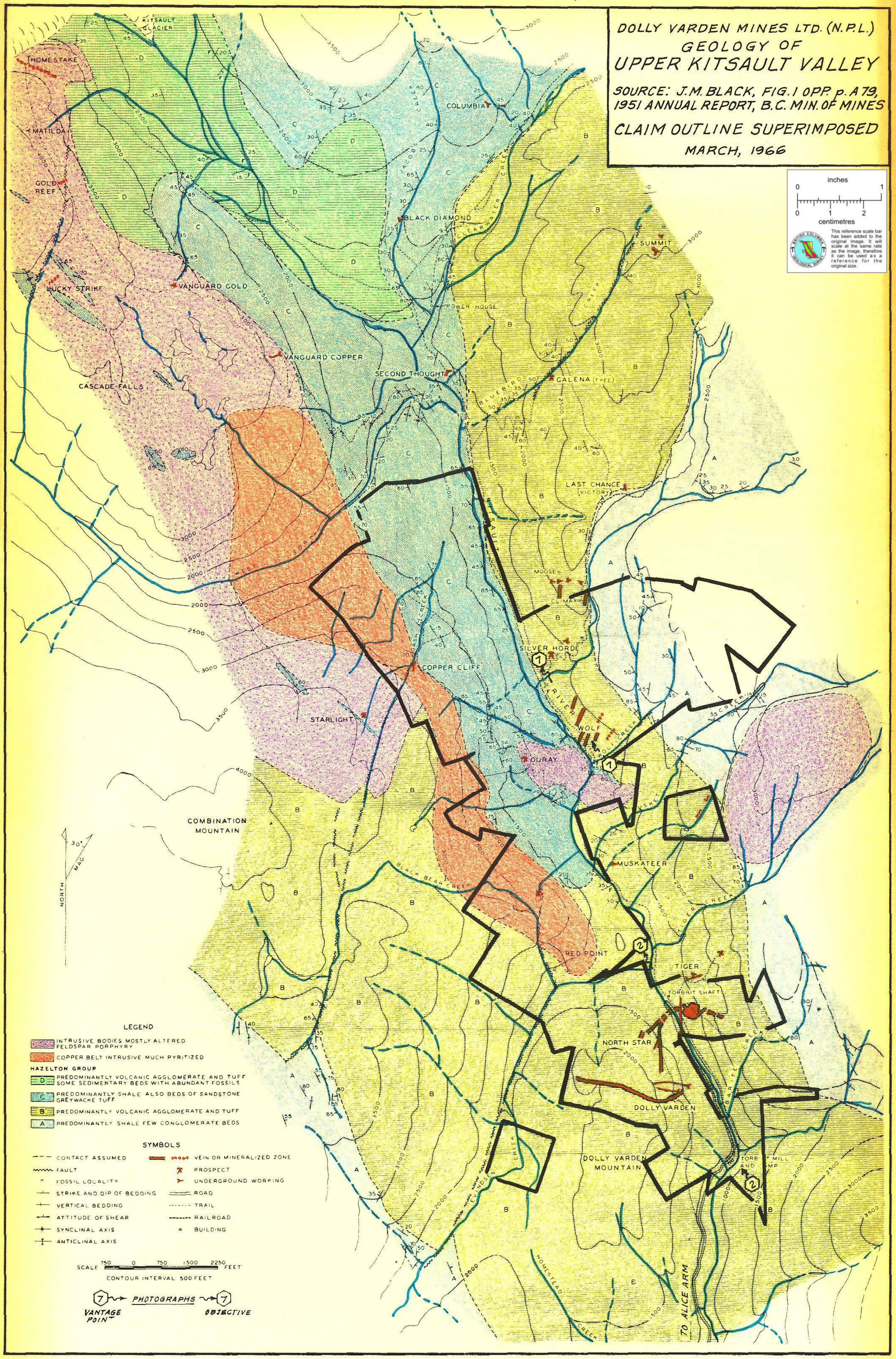
This has had little exploration although indications of the presence of large bodies are excellent.

UNDERGROUND PROPOSALS

Dolly Varden's Directors, before calculations were made for lower-grade tonnages, considered placing the mine in production at about 400 tons per day. Thinking at present is that a much larger production may be achieved.

However, J.A.C. Ross and Associates, Consulting Mining engineers were asked to consider the Wolf and North Star orebodies for production; the belief being that the Dolly Varden could best be reached by an upward approach through the zone from the North Star.

To put the mine in production, a program of about $380,000 for initial raising and drifting on additional levels was recommended; J.A.C. Ross and Associates to take over as Consulting Managers for this work. Only a small part of the program was completed when Sunshine Mining Company stepped into the picture and went into a program of further exploration which was not completed.


DOLLY VARDEN MINES LTD. (N.P.L.)
GEOLOGY OF
UPPER KITSAULT VALLEY
SOURCE: J.M. BLACK, FIG. 1 OPP. p. A79, 1951 ANNUAL REPORT, B.C. MIN. OF MINES
CLAIM OUTLINE SUPERIMPOSED
MARCH, 1966
inches
0 1
0 1 2
centimetres
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.
KITSAULT GLACIER
HOME STAKE
MATILDA
GOLD REEF
LUCKY STRIKE
VANGUARD GOLD
VANGUARD COPPER
CASCADE FALLS
SECOND THOUGHT
COLUMBIA
BLACK DIAMOND
POWER HOUSE
SUMMIT
GALENA (TYEE)
LAST CHANCE (VICTORY)
MOOSE
CLIMAX
SILVER HORDE
COPPER CLIFF
STARLIGHT
WOLF
OURAY
COMBINATION MOUNTAIN
MUSKATEER
RED POINT
TIGER
TORBRIT SHAFT
NORTH STAR
DOLLY VARDEN
DOLLY VARDEN MOUNTAIN
TO ALICE ARM
NORTH
30° MAG
LEGEND
INTRUSIVE BODIES MOSTLY ALTERED FELDSPAR PORPHYRY
COPPER BELT INTRUSIVE MUCH PYRITIZED
HAZELTON GROUP
D PREDOMINANTLY VOLCANIC AGGLOMERATE AND TUFF SOME SEDIMENTARY BEDS WITH ABUNDANT FOSSILS
C PREDOMINANTLY SHALE ALSO BEDS OF SANDSTONE GREYWACKE TUFF
B PREDOMINANTLY VOLCANIC AGGLOMERATE AND TUFF
A PREDOMINANTLY SHALE FEW CONGLOMERATE BEDS
SYMBOLS
CONTACT ASSUMED
FAULT
FOSSIL LOCALITY
STRIKE AND DIP OF BEDDING
VERTICAL BEDDING
ATTITUDE OF SHEAR
SYNCLINAL AXIS
ANTICLINAL AXIS
VEIN OR MINERALIZED ZONE
PROSPECT
UNDERGROUND WORKING
ROAD
TRAIL
RAILROAD
BUILDING
SCALE 750 0 750 1500 2250 FEET
CONTOUR INTERVAL 500 FEET
PHOTOGRAPHS
VANTAGE POINT
OBJECTIVE

COPPER BELT

The "Copper Belt" is a distinct zone of alteration lying along the west side of Dolly Varden's northern claims and forms a very distinct reddish-colored landmark from the air.

George Hanson in Memoir 175 of the Geological Survey of Canada describes the belt and the rocks in considerable detail but did not map it as a distinct and separate formation.

J.M. Black in the Annual Report 1951, Minister of Mines, Province of British Columbia presents a map of the upper Kitsault valley on which the Copper Belt is mapped as a distinct formation appearing as the western contact of an intrusive. As mapped the Copper Belt is 17,700 feet long, north to south, and is from 500 feet to 3,600 feet wide. Two plugs of Copper Belt rocks are also mapped in the vicinity. Black, although mapping in detail, does not describe the rocks in much detail.

Black does not believe that the chalcopyrite is more than a fraction of one percent for the exposed portions of the copper belt but states that only a small part of the area has been explored along those sections naturally exposed on bluffs and steep canyon slopes. He finalizes "Prospecting might locate other occurrences in which chalcopyrite is present in greater proportions".

Hanson (page 15) states in his description of belts of rock in the Kitsault Valley that "One belt is locally known as the "Copper Belt" from the fact that the mineral deposits in the belt are chalcopyrite deposits. The Copper Belt is about half a mile wide".

"The exact nature of the rocks composing the Copper Belt is unknown, but there is no doubt that much acidic feldspar porphyry much altered to sericite, calcite and chlorite, is present in the north part and some feldspar porphyry also occurs in the southern part. Tuffs, breccias and minor amounts of tuffaceous sediments are also present. The Copper Belt rocks are light grey to greenish-grey and are more sheared and otherwise altered than the other part of the Kitsault body. They appear to contain more pyrite than the other rocks and due to the weathering of the pyrite appear as a rusty band when seen at a distance. All the copper-bearing mineral deposits of the northern half of the Kitsault body lie in the Copper Belt and it lacks deposits of the silver-lead type typical of the adjacent igneous rocks."

Undoubtedly this belt is a heavily mineralized area only scantily explored.

.....Continued

COPPER BELT

The only places that have received any more than cursory inspection by prospectors are written up as follows in the Annual "Report of the Minister of Mines of the Province of British Columbia 1930."

RED POINT

"This group is situated on the west side of the Kitsault river, north of Evindsen creek, about 1½ miles from the end of the Dolly Varden Railway. It is reached by a good trail branching from the main trunk trail at the head of the canyon. The camp is at altitude 1,650 feet. The mineral occurrence consists of chalcopyrite, structurally associated with what appear to be quartz-filled major joint-planes striking N. 10°E. (mag.) and dipping east, in pyritized tuff. No zonal structure accompanying the mineralization is evident. In places silicified replacement areas mineralized with disseminated chalcopyrite appear to emanate from these jointed sections. Several of these occurrences have been explored by open-cutting and tunnelling at elevation 1,850 feet on the "Red Point No. 1" claim. At about 500 feet lower elevation a crosscut tunnel has been driven about N.50°W. (mag.) for 590 feet where it turns practically due west (mag.) for a further 430 feet, with the objective of exploring the possible downward extension of the exposures on surface. Only some sparse chalcopyrite mineralization was encountered in this work.

On the "Red Point Extension" at altitude 2,200 feet, about 1,500 feet north-east of the "Red Point No. 1" showings, an open-cut 40 feet long on the face of a bluff exposes a pyritized quartzose replacement belt, 12 feet wide, mineralized with some chalcopyrite at the south-west end of the cut."

COMBINE FRACTION.

"This claim, adjoining the "Red Point" on the north, has been restaked by Miles Donald, of Alice Arm. Good vein-widths, well mineralized with chalcopyrite, pyrrhotite, pyrite, and an unidentified dark-grey mineral in a quartz gangue, are exposed in one open-cut and two strippings over a distance of about 200 feet at altitude 2,200 feet. A sample of about 15 tons of ore from the dump of an old caved tunnel that could not be examined assayed: Gold, 0.22 oz. to the ton; silver, 2.2 oz. to the ton; copper 2.1 per cent; arsenic, 'nil'. During the late fall, with assistance from the Department of Mines, the showings were connected by a trail from the "Red Point" camp. The showings are well worth further intensive exploration."

.....Continued

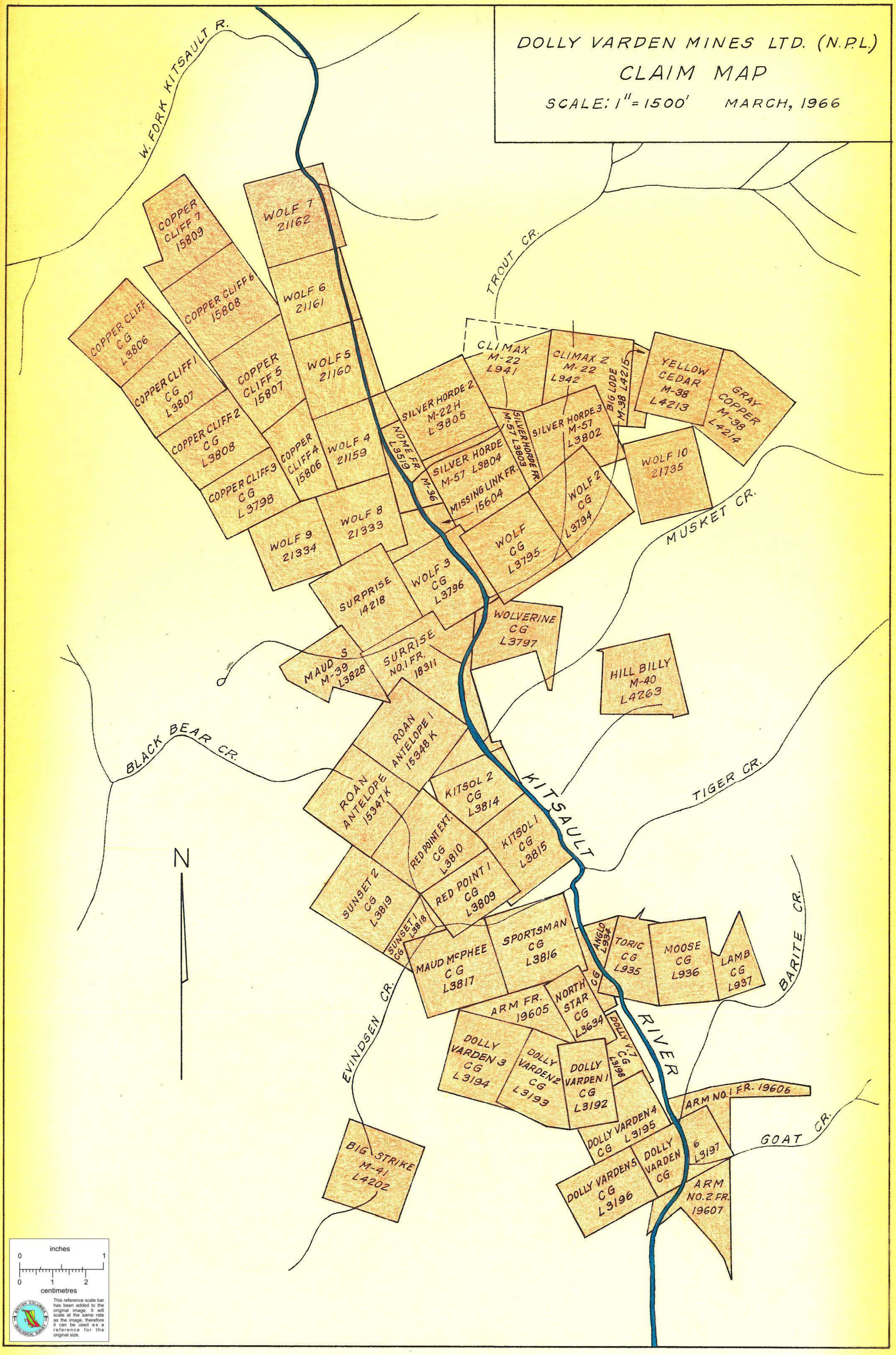
Excerpt from the Annual "Report of the Minister of Mines of the Province of British Columbia 1918".

COPPER CLIFF GROUP

"This group is made up of four claims--Copper Cliff, Copper Cliff No. 1, Copper Cliff No. 2, and Copper Cliff No. 3--situated on the west side of the Kitsault river, just opposite Trout creek. The owners are J. Wells, A. Davidson, and J.E. Juggins, of Alice Arm, B.C. The showing on the property is a belt several hundred feet wide of oxidized, yellowish-red stained rock on the surface and light grey when broken into, rather soft and disseminated with pyrite, in which can be seen a little chalcopyrite. The zone lies along the contact of the andesite and sedimentary formations, and in the andesite, which has been somewhat altered and slightly silicified and pyritized. On the east side of Gash creek, which cuts across the belt, a low-grade copper-bearing vein crops, running N.30°E., whose width at this point could not be determined. The vein is a somewhat siliceous, darker-coloured rock, full of iron pyrites which carries a small percentage of chalcopyrite. Above the cropping an open-cut has been dug along the hillside for a length of 30 feet, of which about 6 feet in width is fairly good copper ore. The formation throughout is the lighter grey, slightly pyritized rock. At an elevation of 2,550 feet a crosscut tunnel has been driven 45 feet toward the above-mentioned cropping and open-cut. Judging by eye, it will require a further 50 feet of driving to get under it.

North-west of the tunnel about 100 feet and across the creek the Granby Consolidated Company ran a diamond-drill hole from the argillites into the red-stained formation for a length of 170 feet, and, I believe, found nothing of sufficient value to warrant any further work on that side. Some drilling was also done farther north-east along the contact into this zone, with, I suppose, unsatisfactory results, as nothing more was done.

Some good float of chalcopyrite has been found below the zone, and it seems reasonable to think that, somewhere in such an immense mineralized belt, commercial ore will be found. The property is only about a half mile from the Kitsault river in a straight line, so that transportation is not a handicap."


DOLLY VARDEN MINES LTD. (N.P.L.)
CLAIM MAP
SCALE: 1" = 1500'
MARCH, 1966
W. FORK KITSAULT R.
TROUT CR.
MUSKET CR.
BLACK BEAR CR.
TIGER CR.
BARITE CR.
GOAT CR.
EVINDSEN CR.
KITSAULT RIVER
N
COPPER CLIFF 7 15809
WOLF 7 21162
COPPER CLIFF 6 15808
WOLF 6 21161
COPPER CLIFF CG L3806
COPPER CLIFF 1 CG L3807
COPPER CLIFF 5 15807
WOLF 5 21160
COPPER CLIFF 2 CG L3808
COPPER CLIFF 4 15806
WOLF 4 21159
COPPER CLIFF 3 CG L3798
WOLF 9 21334
WOLF 8 21333
CLIMAX M-22 L941
CLIMAX 2 M-22 L942
BIG LODE M-38 L4215
YELLOW CEDAR M-38 L4213
GRAY COPPER M-38 L4214
SILVER HORDE 2 M-22H L3805
NOME FR. L3519
SILVER HORDE M-57 L3804
SILVER HORDE FR. M-57 L3803
SILVER HORDE 3 M-57 L3802
M-36
MISSING LINK FR. 15604
WOLF 10 21735
WOLF 2 CG L3794
WOLF CG L3795
SURPRISE 14218
WOLF 3 CG L3796
WOLVERINE CG L3797
MAUD S M-39 L3828
SURRISE NO. 1 FR. 18311
HILL BILLY M-40 L4263
ROAN ANTELOPE 1 15348K
ROAN ANTELOPE 15347K
KITSOL 2 CG L3814
RED POINT EXT. CG L3810
KITSOL 1 CG L3815
SUNSET 2 CG L3819
RED POINT 1 CG L3809
SUNSET 1 CG L3818
MAUD McPHEE CG L3817
SPORTSMAN CG L3816
ANGLO L934
TORIC CG L935
MOOSE CG L936
LAMB CG L937
ARM FR. 19605
NORTH STAR CG L3634
DOLLY V. 7 CG L3198
DOLLY VARDEN 3 CG L3194
DOLLY VARDEN 2 CG L3193
DOLLY VARDEN 1 CG L3192
ARM NO. 1 FR. 19606
DOLLY VARDEN 4 CG L3195
DOLLY VARDEN 6 L3197
DOLLY VARDEN 5 CG L3196
DOLLY VARDEN CG
ARM NO. 2 FR. 19607
BIG STRIKE M-41 L4202
inches
0 1
0 1 2
centimetres
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.
BRITISH COLUMBIA GEOLOGICAL SURVEY