

ESPERANZA EXPLORATIONS LTD.

PROPERTY EXAMINATION REPORT

THE DARDANELLES PROSPECT

N.T.S. 82G W-1/2

FORT STEELE MINING DIVISION

Latitude 49°42'

Longitude 115°30'

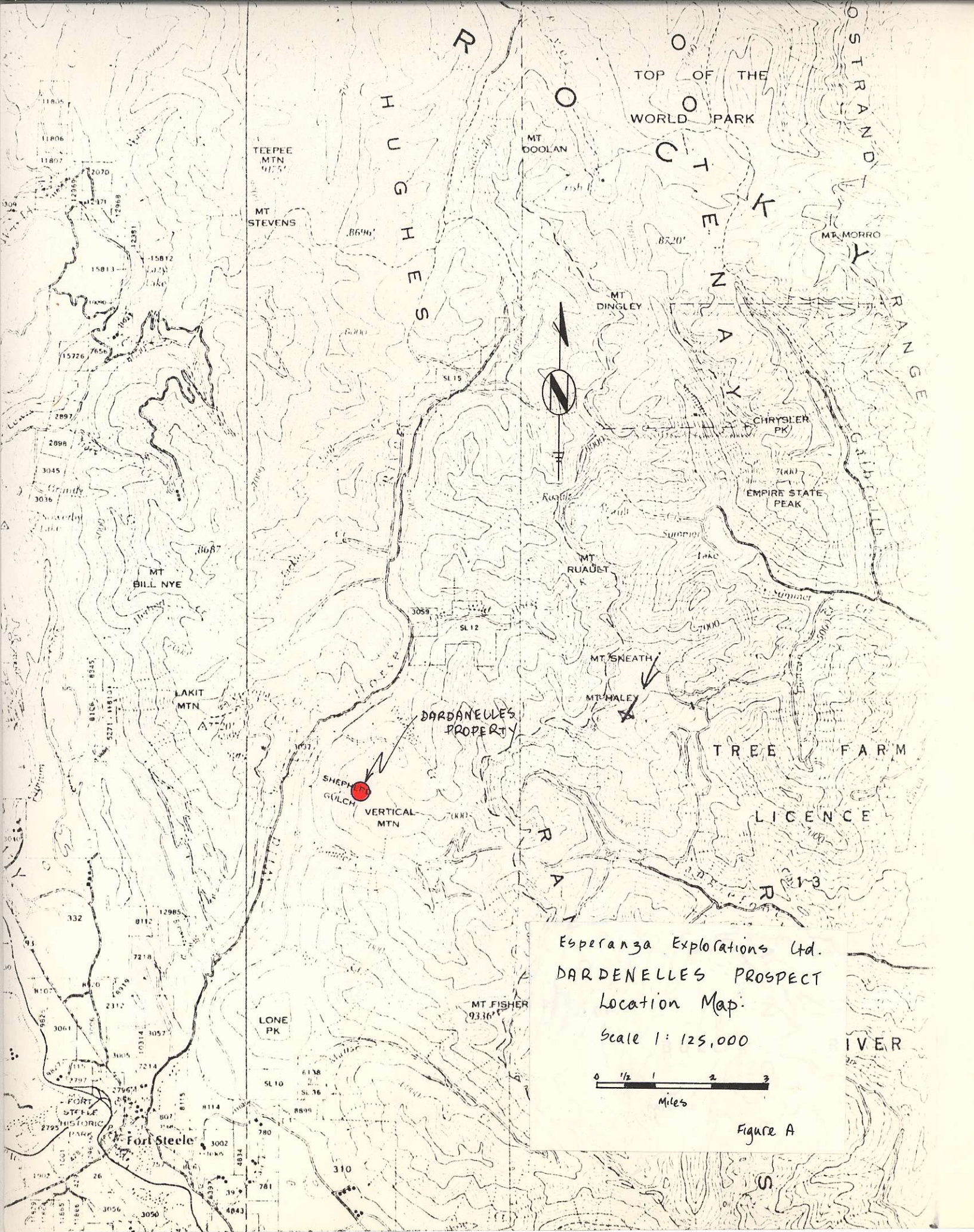
Operator: Magnum Enterprizes Ltd.
(Dave Fredlund and Assoc.)

March, 1980

John Jenks

TABLE OF CONTENTS

	Page
INTRODUCTION	1
LOCATION, ACCESS AND TOPOGRAPHY	1
HISTORY AND OWNERSHIP	2
GEOLOGY AND MINERALIZATION	6
CONCLUSIONS AND RECOMMENDATIONS	9
BIBLIOGRAPHY	10
SAMPLES TAKEN	11
 FIGURES:	
A. - LOCATION MAP	Frontispiece
B. - LOCATION MAP SHOWING GEOLOGY	7
C. - SKETCH MAP OF HILLSIDE AND FIELD NOTES	3,4
D. - CROSS-SECTION SKETCH	5
 APPENDICES	
A. - CLAIM MAP	
B. - FREDLUND SKETCH	
C ₁ , C ₂ , C ₃ - SMELTER RETURN SHEETS	
D ₁ -D ₂ -D ₃ - ASSAY SHEETS	
E. - ⁹ B.C.M.M. ANNUAL REPT. pp. 49 1 year?	



Esperanza Explorations Ltd.
 DARDANELLES PROSPECT
 Location Map.
 Scale 1:125,000
 0 1/2 1 2 3
 Miles
 Figure A

INTRODUCTION

The Dardanelles property was examined on July 29, 1979 in company with one of the owners, Mr. Dave Fredlund; A shallow-dipping, thick quartz vein in Creston quartzites contains a mineralized core 2 to 15 inches thick containing galena, anglesite, chalcopyrite, malachite and azurite. Gold content within the core averages 0.2 to 0.45 ounces/ton, silver content 2 to 7 ounces silver/ton, and lead content from 5 to 25 percent. The remaining portion of the vein is virtually barren.

It is felt the property offers a vein-type deposit of low tonnage potential with an outside chance of over 2000 feet of faulted, lensy strike possibility which would require further physical work for verification.

Undoubtedly several hundred tons of direct shipping material could be picked out of the prospect.

LOCATION, ACCESS AND TOPOGRAPHY

The Dardanelles property is situated on a northwesterly facing slope of Vertical Mountain, a distance 7.5 miles northeast of Fort Steele. Access to the prospect can be made via dirt road from Fort Steele along the east side of Wild Horse Creek, famous for extensive placer activity during the 19th century.

The final 1.5 miles of road into the Dardanelles is steep, requiring four-wheel drive and considerable tree clearing due to abundant deadfall along the road.

Terrain is steep though not precipitous and timbered to pine, tamarack and

fir. Water is available from the headwaters of Shepherd Creek .25 miles to the west.

HISTORY AND OWNERSHIP

History of the property though poorly documented dates to the 1890's. Mention is made in B.C. Minister of Mines Reports covering the years 1893 and 1896 of mining activity on the Dardanelles consisting of trail establishment, cabin erection and the eventual tunnelling of three shallow declines along the vein(s). Two of the declines are collapsed completely, the third and highest in elevation is open for a distance of ten feet. One of the tunnels was reportedly over 60 feet in length, another over 130 feet. Whether any stoping was done along the vein is not known.

The property consists of two contiguous Crown Grants, the Dardanelles (Lot #10329) and the Mother Lode (Lot #10330) held by Dave Fredlund and two partners through a private company which they call Magnum Enterprises Ltd.

Fredlund and partners reportedly made three ore shipments to the Cominco smelter at Trail (see attached smelter return sheets). They are summarized as follows:

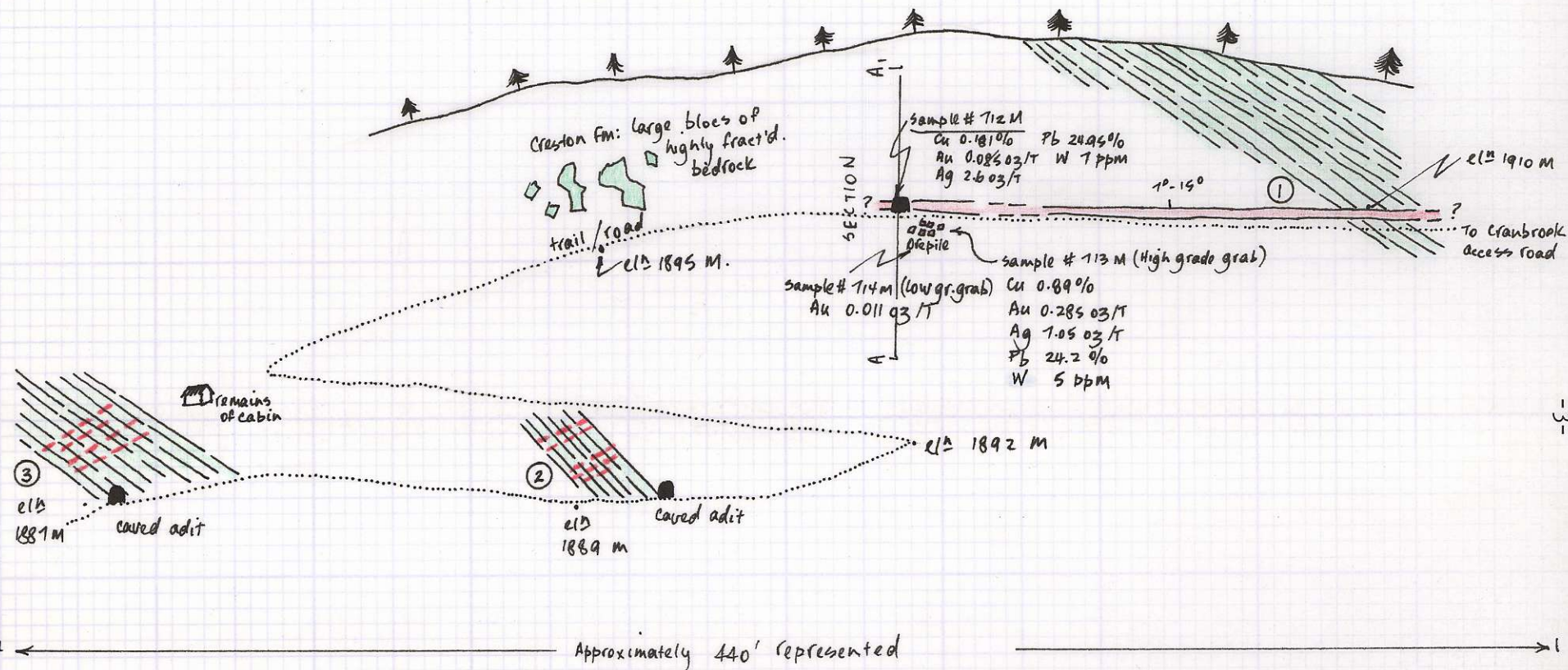
<u>Date</u>	<u>Tonnage Sent</u>	<u>Au (oz/T)</u>	<u>Assays:</u>			<u>Zn %</u>	<u>Gross Value</u>
			<u>Ag (oz/T)</u>	<u>Cu %</u>	<u>Pb %</u>		
Feb. 17/75	48.3	0.214	1.7	0.08	4.4	0.2	\$ 2,245.10
Aug. 20/75	22.2	0.81	2.05	0.17	5.0	0.1	\$ 3,178.82
Oct. 10/75	24.8	0.65	1.8	0.17	4.9	0.2	\$ 2,508.37

No data is available on total tonnages mined, however it is felt this figure would not exceed a couple of hundred tons.





SECTION LOOKING SOUTH

← EAST

WEST →



Legend:

-  Creston Formation quartzites showing bedding dip
-  Quartz vein - thick
-  - thin
-  Field note (see accompanying sheet)

Esperanza Explorations Ltd.
DARDANELLES PROSPECT
Ft. Steele M.D.
Sketch Map of Hillside
not to scale J.V. Feb '80
FIGURE C

DARDENELLES PROSPECT
FIELD NOTES (to accompany figure C)

- ① Creston Formation quartzite: Lt. green in colour, very fine grained. Flaggy bedding, 1" to 4" thick. Talc in places. Striking N-S, dipping -38° West.

Flattish lying quartz vein. Strikes 122° , dips -6° to -15° SW. Ranges from 3' to 1' thick, averaging 5'. White, vein quartz with mineralized core 2" to 15" thick containing galena, anglesite, chalcopyrite, malachite, azurite. Colloidal texture common. Slaty cleavage in footwall.

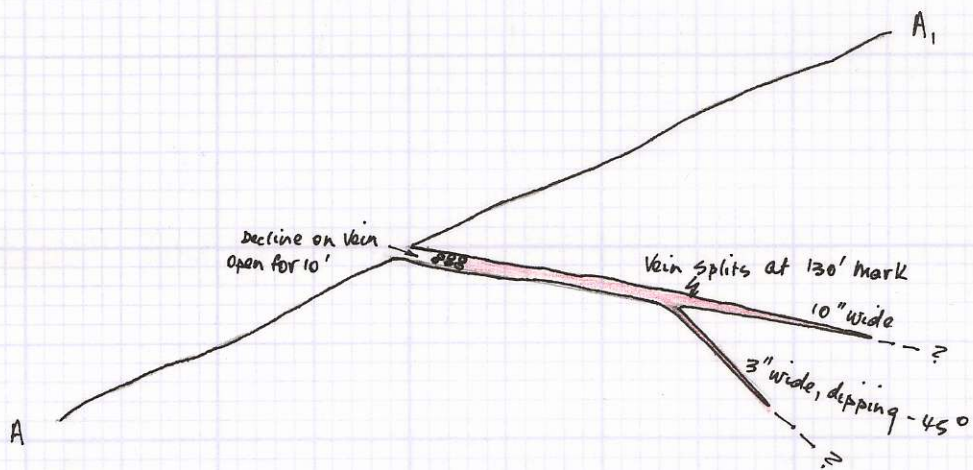
- ② Creston fm. quartzite. Brownish alteration. Strike N-S $\rightarrow -45^\circ$ W. Approximately 13 sub-parallel quartz veins present ranging in thickness from $\frac{1}{4}$ " to 6". Striking $005^\circ \rightarrow -40^\circ$ E. Slight traces of galena mineralization. Steepening to the north to near-vertical.

- ③ Creston fm. qtz. striking N-S $\rightarrow -60^\circ$ W. Parallel veining as at 2.

Note: ~~two~~ ^{three} adits are present, two completely collapsed; the third at 1910 m elⁿ is open for 10 feet; it apparently extended in following the vein for over 130 feet.

← North

South →



Esperanza Explorations Ltd.
DARBANELLES PROSPECT
Cross-sectional sketch
Illustrating Vein
Orientation
Scale 1" = 100' JJ

FIGURE D

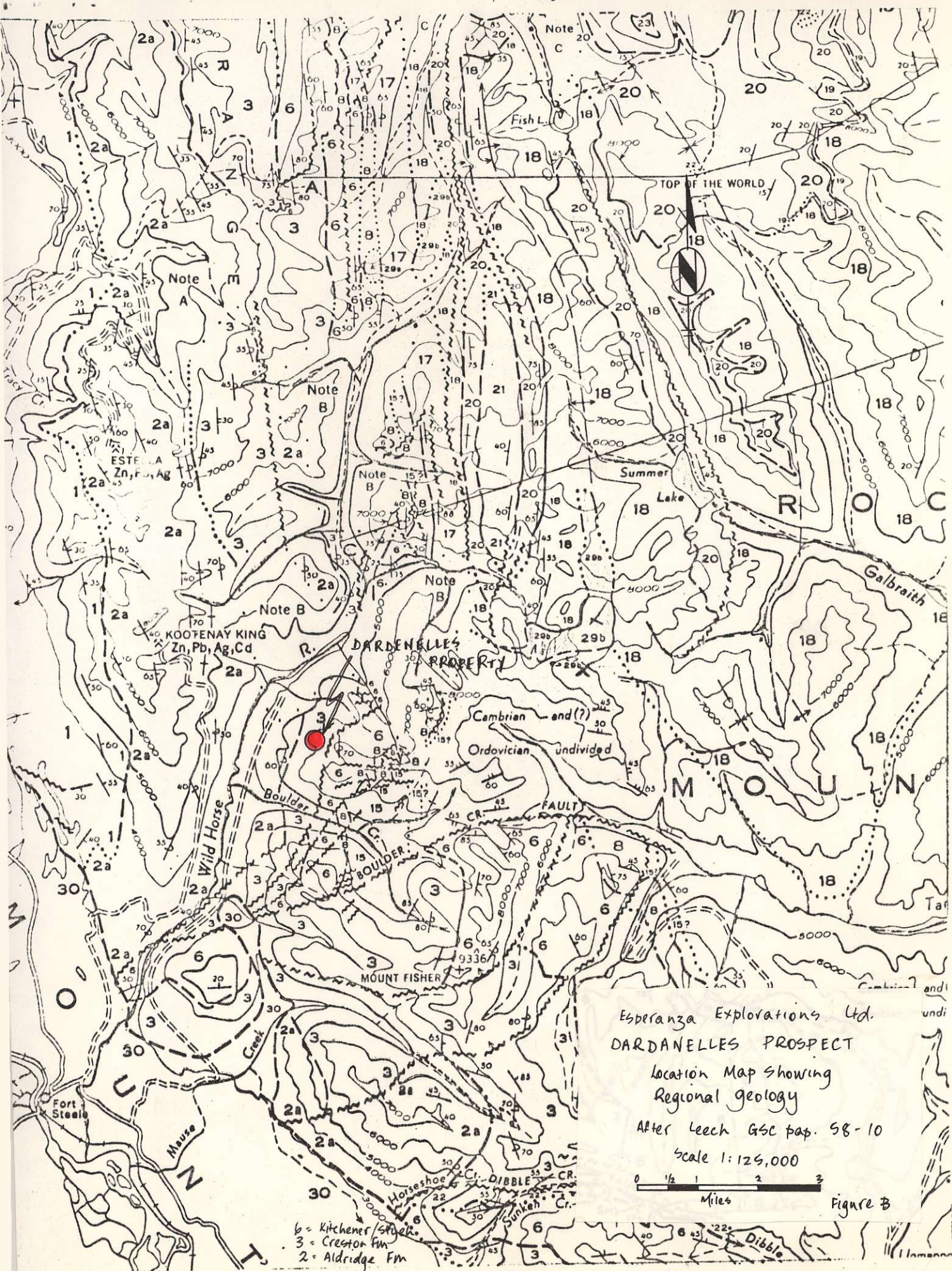
GEOLOGY AND MINERALIZATION

Situated in the Rockies just east of the Rocky Mountain Trench, the Dardanelles prospect lies within a geological sub-province which, except for a few small base-metal producers, has been notable for an absence of significant mineral occurrences. Total production of placer gold from Wild Horse Creek between the years 1863 to 1935 is felt to have exceeded \$1,000,000. It may have resulted from an alluvial accumulation of gold from a number of small veins similar to the Dardanelles vein.

Host rocks for the Dardanelles occurrence are fine-grained, light-green quartzites of the Creston Formation, a 5000-foot thick member of the Precambrian Purcell series. Gold occurs within a massive, white quartz vein ranging from 3 to 7 feet in thickness, averaging 5 feet. Strike is 122° , dip from -6° to -15° SW into the hillside. The vein can be traced for 180 feet along strike. To the west it is covered by overburden, to the east extensive faulting and fracturing has obviously disrupted continuity. A tunnel has followed the vein downdip for an undisclosed distance of which 10 feet remain open at present. According to the 1896 B.C.D.M. annual report maximum width was 4 feet. At the 130-foot mark the vein split in two; the upper portion was 10 inches in width, the lower portion dipped at -45° and averaged 3 inches in width. Gold values were not disclosed.

Within the vein, the bulk of the mineralization and related gold values are restricted to a core zone ranging from 2 to 15 inches in thickness containing blebs and patches of galena, anglesite, chalcopyrite, malachite, and azurite. The remaining vein portion seems barren visually.

Immediately east of the vein and slightly lower in elevation a number of thin, sub-parallel quartz veins are present. These dip easterly at -40° and are virtually barren.



Esperanza Explorations Ltd.
 DARDANELLES PROSPECT
 Location Map Showing
 Regional geology
 After Leech GSC pap. 58-10
 Scale 1:126,000

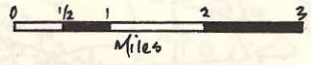


Figure B

6 = Kitchener (Stg)
 3 = Creston fm
 2 = Aldridge fm

Approximately 370 feet further east at 1900 metres elevation, a quartz vein exposure was examined. Two feet in width, highly fractured, and segmented, the vein appears barren. Strike is 056° to 120° , dip -33° SW.

Some 2000 feet west of the Dardanelles vein at an elevation of 2000 metres a vein 1 to 4 feet in thickness has been examined through shallow tunnels over a strike length of 100 feet. The vein has a multiply-injected 4 inch thick core containing sparse blebs and patches of galena in a somewhat similar fashion to the Dardanelles vein. Strike ranges from 010° to 020° , dip from -23° to -32° E.

This latter vein is on a property formerly known as the Lilly Mae. It is not held by Fredland and Associates.

Gradewise, the Dardanelles vein shows considerable variation. A selected sample by Fredlund et al purportedly assayed 9.46 ounces/T gold, however this is exceptional. Total smelter shipments of 95.3 tons of probable selected material ranged from 0.214 to 0.81 ounces/T gold with a weighted average of 0.46 ounces/T gold. My own sampling suggests a considerable discrepancy between mineralized core of the vein and the low-grade remaining portion with the core averaging 0.08 to 0.285 ounces/T gold, 2.6 to 7.05 ounces/T silver, and 24% lead. A sample of barren vein material assayed 0.011 ounces/T gold.

Significant vein occurrences are reported from the areas designated 2 and 3 on the sketch, however caving and sluffed-in overburden have covered these showings completely.

CONCLUSIONS AND RECOMMENDATIONS

Examination has confirmed the presence of a shallow-dipping quartz vein averaging 5 feet in thickness and traceable for 180 feet along strike. A mineralized core of the vein comprising 10 to 20 percent of the total thickness appears to average 0.2 to 0.45 ounces/T gold, 2 to 7 ounces/T silver and 5 to 25% lead. The remainder is virtually barren.

Both thickness and grade continuity are suspect. Down dip tunnelling in the vein suggests a split and a steepening of the vein at the 130-foot mark. Continuity is apparently interrupted along strike immediately to the east.

However, exposures of vein material can be seen 370 feet to the east as well as 2000 feet to the west. Both exposures are roughly along strike and at comparable elevations so it is conceivable they could be part of the Dardanelles vein system. Additional physical work would be required to confirm such an idea.

In all probability tonnage potential is small, the payability factor of the vein about 15 to 20 percent. The vein seems typical of many vein-type deposits with regard to grade/thickness variability, abundant lensing and faulting. As a small-tonnage proposition a few hundred tons could probably be picked out and direct shipped at a profit.

Should serious interest be forthcoming on the prospect a work programme would involve reopening the present tunnels together with a modest shallow drilling programme to gain some appreciation of the lateral continuity of the vein system.

BIBLIOGRAPHY

B.C. Minister of Mines

Annual Reports 1893, 1896, 1902, 1913, 1925, 1934

LEECH, G.H.

1958: Fernie Map Area, West Half, B.C. 82G-W1/2;
G.S.C. Paper 58-10

Schofield, S.J.

1915: Geology of the Cranbrook Map Area; G.S.C.
Memoir 76

Rice, H.M.A.

1937: Cranbrook Map Area, B.C.; G.S.C. Memoir 207

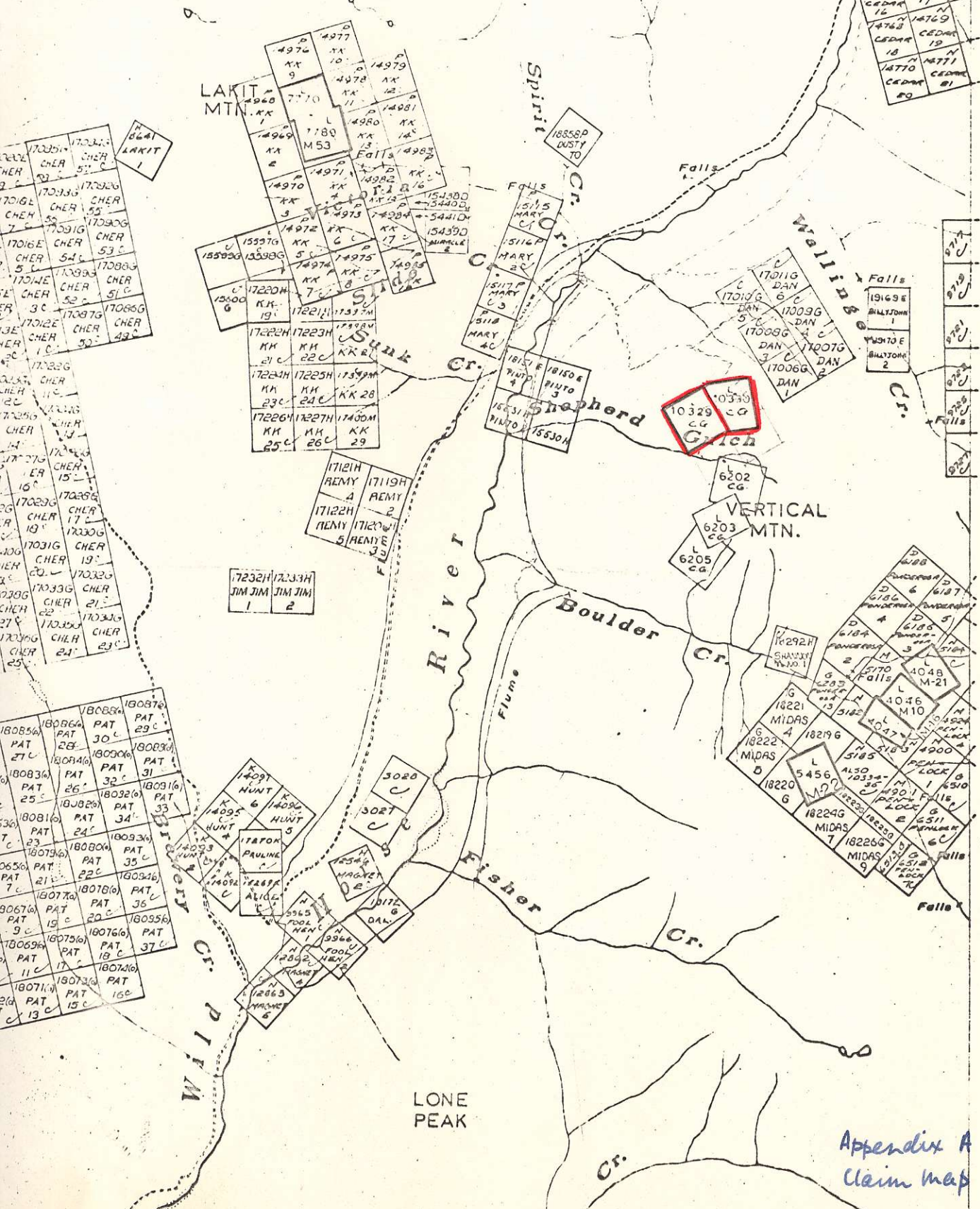
DARDANELLES PROPERTY
SAMPLES TAKEN

<u>SAMPLE NO.</u>	<u>LOCATION AND DESCRIPTION</u>	<u>ASSAYED FOR</u>	
712M	Dardanelles: 4' channel sample from 10' tunnel. Quartz vein with 4" core of galena in patches (sample A)	Cu	0.181%
		Au	0.085 oz./T
		Ag	2.6 oz./T
		Pb	24.9%
		W	7 ppm
713M	Dardanelles: grab of high grade from dump. Quartz vein with galena, malachite, azurite (sample B)	Cu	0.89%
		Au	0.285 oz./T
		Ag	7.05 oz./T
		Pb	24.2%
		W	5 ppm
714M	Dardanelles: grab of low grade from dump. Rusty vein quartz with no visible mineralization	Au	0.011 oz./T

APPENDIX A

CLAIM MAP

13950M	13950	13952M	13954M	13956M	13958M
13950	13950	13952	13954	13956	13958
13950	13950	13952	13954	13956	13958
13950	13950	13952	13954	13956	13958
13950	13950	13952	13954	13956	13958
13950	13950	13952	13954	13956	13958
13950	13950	13952	13954	13956	13958
13950	13950	13952	13954	13956	13958
13950	13950	13952	13954	13956	13958
13950	13950	13952	13954	13956	13958



MTS
82G 12

6

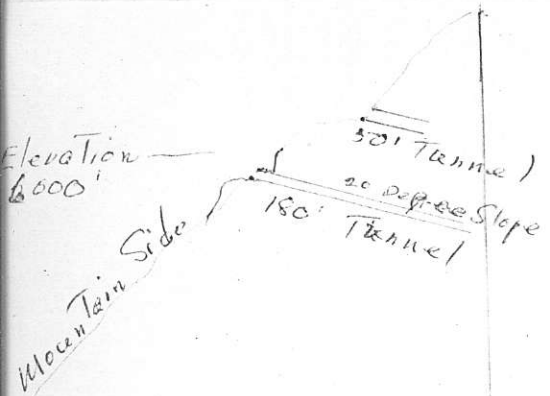
5

4

Appendix A
Claim map

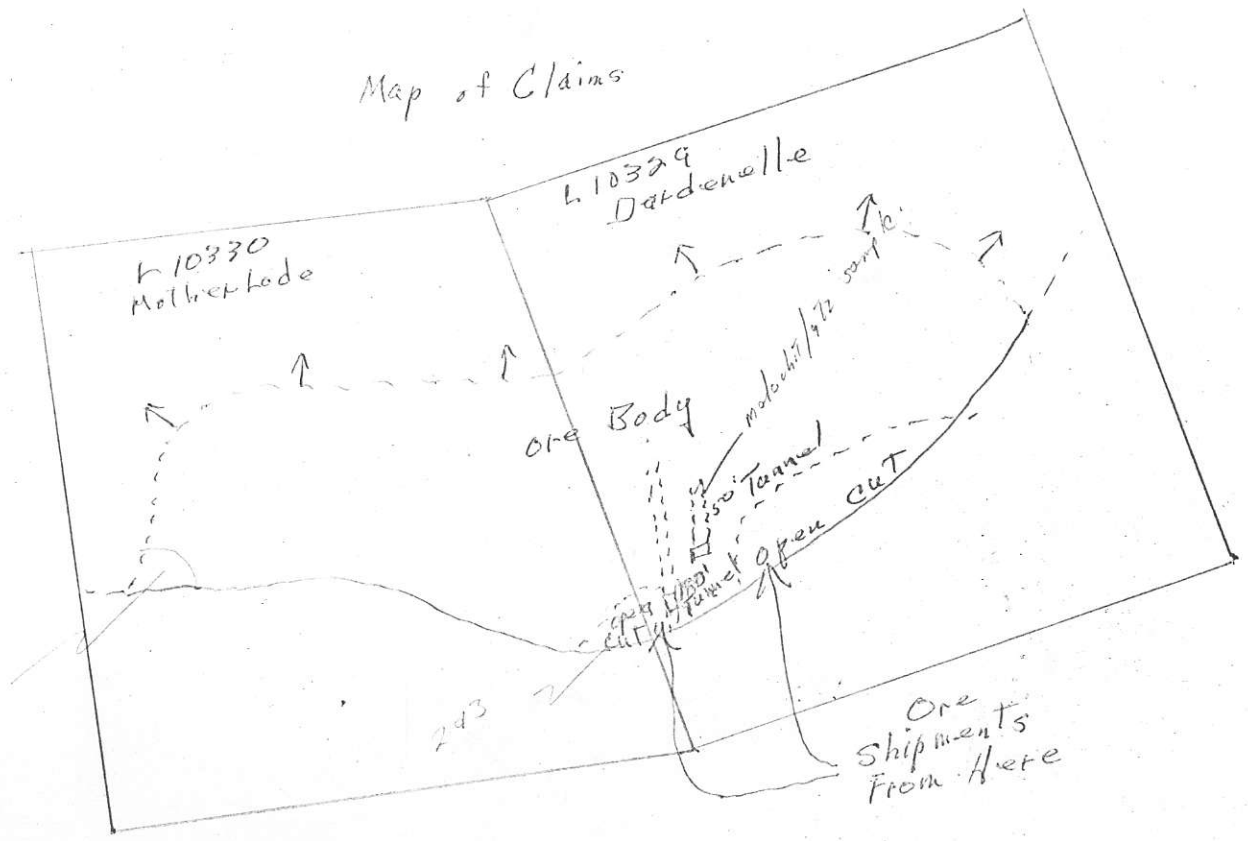
APPENDIX B

FREDLUND SKETCH



Inset #1 Vertical section from side

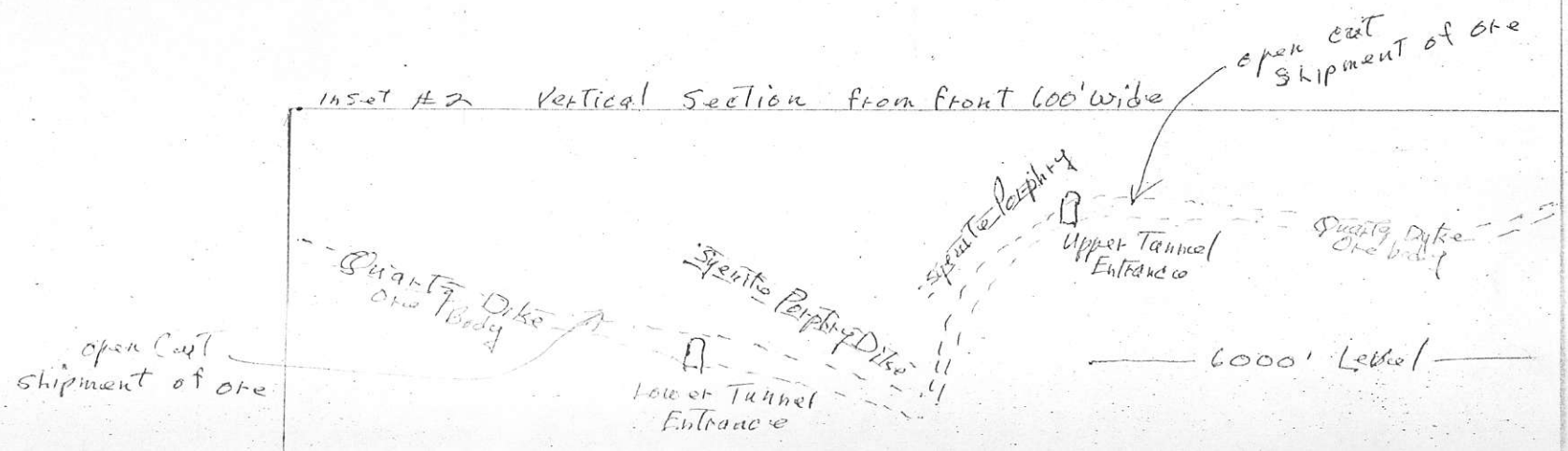
Map of Claims



Appendix B.
Fredlund sketch



Inset #2 Vertical section from front 600' wide



APPENDICES C₁, C₂, C₃

SMELTER RETURN SHEETS

LEAD SETTLEMENT-(PRELIMINARY)
OUR SERIAL NO. 6105-C

COMINCO LTD
TRAIL B.C.

IN ACCOUNT WITH-MAGNUM ENTERPRISES LTD.
BOX 372
CRANBROOK B C

10/30/75

FOR ORE - OPEN750 - LOT 2 CAR NO. RECEIVED
CP 377169 10/07/75
WEIGHT OF SHIPMENT - LBS. 1.90% MOISTURE

NET WET WT NET DRY WT DRY TONS
50560 49599 24.7995

ASSAYS

GOLD	SILVER	COPPER	LEAD	ZINC	SULPHUR	SILICA
0.6500	1.8000	0.1700	4.9000	0.2000	0.8000	86.4000
OZ / DRY TON		%	%	%	%	%
ALUMINA	IRON	LIME	ANTIMONY	ARSENIC	BISMUTH	
1.5000	2.3000	0.1000	0.1000	0.1000	0.0100	
%	%	%	%	%	%	

QUOTATIONS QUOT DATE 10/10/75 US EXCHANGE 2.54000%

GOLD	142.25000 US \$/OZ.	LESS 3.00\$/OZ	NET 142.86315 \$/OZ CAN
SILVER	4.28175 US \$/OZ.	LESS 9.07\$/OZ	NET 4.32051 \$/OZ CAN
LEAD	18.72600 US C/LB.	LESS 4.68C/LB	NET 14.52160 C/LB CAN

CONTENTS AND VALUE

METAL	CONTENT	DEDUCTIONS	NET	VALUE
GOLD	16.120 OZS	1.128	14.992 OZS \$	2141.80
SILVER	44.64 OZS	24.80	19.84 OZS \$	85.72
LEAD	2430 LBS	496	1934 LBS \$	280.85

TOTAL GROSS VALUE \$ 2508.37

LESS: BASIC TREATMENT @ 31.35 \$/T 777.46
LESS: TREATMENT RATE @ -20.31 \$/T -503.68 \$ 2234.59

LESS: EXTRA HANDLING 85.00

LESS: FREIGHT * 518.86

TOTAL NET VALUE \$ 1630.73
ADVANCED (75%) \$ 1220.00

TREATMENT RATE

LABOUR RATE ADJ.	41.0000 AT \$ 0.100	\$ 4.10
IRON PENALTY	2.1000 AT \$ 0.700	\$ 1.47
ARSENIC PENALTY	0.0000 AT \$ 1.000	\$ 0.00
ALUMINA PENALTY	1.0000 AT \$ 0.250	\$ 0.25
SILICA CREDIT	86.4000 AT \$ -30.240	\$ -26.13
LIME CREDIT	0.0000 AT \$ -0.050	\$ 0.00
TOTAL TREATMENT RATE		\$ -20.31

ADDITIONAL ARSENIC PENALTY INDICATED

?

* CAR RET 4886
HAULING
W.N. TROTTER 470.00
* TOTAL 518.86

Appendix

C,

LEAD SETTLEMENT-(PRELIMINARY)
OUR SERIAL NO. 5949-C

COMINCO LTD
TRAIL B.C.

IN ACCOUNT WITH-MAGNUM ENTERPRISES LTD
BOX 372
CRANBROOK B.C. VIC 4H9

08/20/75

FOR ORE - OPEN750 - LOT 1 CAR NO. RECEIVED
CP377047 07/29/75

WEIGHT OF SHIPMENT - LBS. 0.10% MOISTURE

NET WET WT NET DRY WT DRY TONS
44460. 44416 22.2080

ASSAYS

GOLD	SILVER	COPPER	LEAD	ZINC	SULPHUR	SILICA
0.8100	2.0500	0.1700	5.0000	0.1000	0.8000	86.8000
OZ / DRY TON		%	%	%	%	%
ALUMINA	IRON	LIME	ANTIMONY	ARSENIC	BISMUTH	
1.2000	2.1000	0.2000	0.2000	0.1000	0.0100	
%	%	%	%	%	%	

QUOTATIONS QUOT DATE 08/08/75 US EXCHANGE 3.54000%

GOLD	164.35000 US \$/OZ.	LESS 3.00\$/OZ	NET 167.16799 \$/OZ CAN
SILVER	5.12325 US \$/OZ.	LESS 0.07\$/OZ	NET 5.23461 \$/OZ CAN
LEAD	18.69100 US C/LB.	LESS 4.71C/LB	NET 14.64270 C/LB CAN

CONTENTS AND VALUE

METAL	CONTENT	DEDUCTIONS	NET	VALUE
GOLD	17.988 OZS	1.259	16.729 OZS \$	2796.55
SILVER	45.53 OZS	22.21	23.32 OZS \$	122.07
LEAD	2221 LBS	444	1777 LBS \$	260.20

TOTAL GROSS VALUE \$	3178.82
LESS: BASIC TREATMENT @ 31.35 \$/T	696.22
LESS: TREATMENT RATE @ -20.69 \$/T	-459.48 \$
	\$ 2942.08
LESS: EXTRA HANDLING	85.00
	\$ 2857.08
LESS: FREIGHT	* 494.43
TOTAL NET VALUE \$	2362.65
ADVANCED (75%) \$	1770.00

TREATMENT RATE

LABOUR RATE ADJ	41.0000 AT \$ 0.100	\$ 4.10
IRON PENALTY	2.0000 AT \$ 0.700	\$ 1.40
ARSENIC PENALTY	0.0000 AT \$ 1.000	\$ 0.00
ALUMINA PENALTY	0.7000 AT \$ 0.250	\$ 0.18
SILICA CREDIT	86.8000 AT \$ -30.380	\$ -26.37
LIME CREDIT	0.0000 AT \$ -0.050	\$ 0.00
TOTAL TREATMENT RATE		\$ -20.69

ADDITIONAL ARSENIC PENALTY INDICATED
?

C-P. CHIRE - 24.43

W.H. TROTTER
TRUCKING LTD 470.00

* 494.43

Appendix

Gross Assay Value Per Ton	168.05
Commission	11.76
Net Assay Value	156.29
Deductions	13.10
Paid Value	143.19
Smelter Charge	0.66
Freight & Handling	26.17
Net Paid	116.42

LEAD SETTLEMENT-(FINAL)
 OUR SERIAL NO. 5477-C

COMINCO LTD
 TRAIL B.C.

IN ACCOUNT WITH-MAGNUM ENTERPRISES LTD.
 BOX 372
 CRANBROOK B C VIC 4H9

02/17/75

FOR ORE - OPEN740 - LOT 1 . CAR NO. RECEIVED
 CP 345308 12/28/74
 WEIGHT OF SHIPMENT - LBS. 0.20% MOISTURE

NET WET WT NET DRY WT DRY TONS
 96880 96686 48.3430

ASSAYS

GOLD	SILVER	COPPER	LEAD	ZINC	SULPHUR	SILICA
0.2140	1.7000	0.0800	4.4000	0.2000	0.8000	90.5000
0Z / DRY TON		%	%	%	%	%
ALUMINA	IRON	LIME	ANTIMONY	ARSENIC	BISMUTH	
0.9000	1.8000	0.1000	0.1000	0.1000	0.0100	
%	%	%	%	%	%	

QUOTATIONS QUOT DATE AV/01/75 US EXCHANGE -0.53000%

GOLD	176.26800 US \$/OZ.	LESS 3.00\$/OZ	NET 172.33378 \$/OZ CAN
SILVER	4.15896 US \$/OZ.	LESS 0.07\$/OZ	NET 4.06692 \$/OZ CAN
LEAD	22.99200 US C/LB.	LESS 5.39C/LB	NET 17.48014 C/LB CAN

CONTENTS AND VALUE

METAL	CONTENT	DEDUCTIONS	NET	VALUE
GOLD	10.345 OZS	1.450	8.895 OZS	\$ 1532.91
SILVER	82.18 OZS	48.34	33.84 OZS	\$ 137.62
LEAD	4254 LBS	967	3287 LBS	\$ 574.57

TOTAL GROSS VALUE \$ 2245.10

LESS: BASIC TREATMENT @ 19.50 \$/T	942.69	
LESS: TREATMENT RATE @ -15.60 \$/T	-754.15	\$ 188.54
		\$ 2056.56
LESS: EXTRA HANDLING		273.32
		\$ 1783.24
LESS: FREIGHT		678.58
		\$ 1104.66
TOTAL NET VALUE		\$ 800.00
ADVANCED		\$ 304.66
BALANCE		\$

TREATMENT RATE	LABOUR RATE ADJ	IRON PENALTY	ARSENIC PENALTY	ALUMINA PENALTY	SILICA CREDIT	LIME CREDIT	TOTAL TREATMENT RATE
18.500 AT \$	0.100	\$ 11.85					
1.600 AT \$	0.700	\$ 1.12					
0.000 AT \$	1.000	\$ 0.00					
0.400 AT \$	0.250	\$ 0.10					
90.500 AT c	-31.675	\$ -28.67					
0.000 AT \$	-0.050	\$ 0.00					
		\$ -15.60					

Appendix C3

1st SHIPMENT I. COT.

APPENDICES D₁ - D₉

ASSAY SHEETS

Box 372
Cranbrook, B.C. VIC 4H9

CERTIFICATE OF ASSAY

Samples submitted: June 16/75
Results completed: June 20/75

I hereby certify that the following are the results of assays made by us upon the herein described ore samples.

MARKED	GOLD		SILVER								TOTAL VALUE PER TON (2000 LBS.)
	Ounces per Ton	Value per Ton	Ounces per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
13412 B White Quartz Sample with azurite + malachite from Dardenello lower workings nose of hill. App D1	9.46										

R. Keith Rogers

Registered Assayer, Province of British Columbia

To: Mr. Fredlund

REPORT No A24 - 353

PAGE No. 1

BONDAR-CLEGG & COMPANY LTD.

DATE: July 9, 1974

R. R. #1, Bond Road
Winfield, B. C.

CERTIFICATE OF ASSAY

Samples submitted: July 8, 1974
Results completed: July 9, 1974

I hereby certify that the following are the results of assays made by us upon the herein described ore samples.

MARKED	GOLD		SILVER	Pb							TOTAL VALUE PER TON (2000 LBS.)
	Ounces per Ton	Value per Ton	Ounces per Ton	Percent	Percent	Percent	Percent	Percent	Percent		
<i>Dandenelle upper (50')</i>											
Quartz Sample	0.03		-	-							
High Grade Sample <i>Sulfide</i>	0.41		5.2	31.5							

App B-2


Registered Assayer, Province of British Columbia

To: Magnum Enterprises Ltd.

REPORT No A25 - 608

PAGE No. 1

BONDAR-CLEGG & COMPANY LTD.

DATE: Aug. 26/75

Box 372
Cranbrook, B.C. VIC 4H9

Samples submitted: Aug. 21/75
Results completed: Aug. 26/75

CERTIFICATE OF ASSAY

I hereby certify that the following are the results of assays made by us upon the herein described ore samples.

MARKED	GOLD		SILVER								TOTAL VALUE PER TON (2000 LBS.)
	Ounces per Ton	Value per Ton	Ounces per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
18676 B <i>Spent by Kenty</i>	0.01	1.65									
18677 B <i>Spent by Chalky</i>	0.02	3.30									
18678 B <i>Spent to East</i>	0.005	1.82									
18679 B <i>Spent to West</i>	0.005	1.82									

App D3


Registered Assayer, Province of British Columbia

To: Macnam Enterprises Ltd.

REPORT No A25 - 603

PAGE No. 1

BONDAR-CLEGG & COMPANY LTD.

DATE: Aug. 26/75

Box 372
Cranbrook, B.C. VIC 4H9

Samples submitted: Aug. 21/75
Results completed: Aug. 26/75

CERTIFICATE OF ASSAY

I hereby certify that the following are the results of assays made by us upon the herein described ore samples.

MARKED	GOLD		SILVER								TOTAL VALUE PER TON (2000 LBS.)
	Ounces per Ton	Value per Ton	Ounces per Ton	Percent	Percent	Percent	Percent	Percent	Percent		
18676 B	0.01										
18677 B	0.02										
18678 B	0.005										
18679 B	0.005										

APP
Dy


Registered Assayer, Province of British Columbia



BONDAR-CLEGG & COMPANY LTD.

geochemists • assayers • analytical chemists

1500 PEMBERTON AVENUE, NORTH VANCOUVER, B.C.
PHONE: 988-5315 TELEX: 04-54554

CERTIFICATE OF ANALYSES

TO Magnum Enterprises Ltd.
Box 372
Cranbrook, B.C.

Report No. A24 - 822
October 23, 1974

VIC 4H9

MARKED	Au	Ag	Pb	Zn								
	Percent oz/ton	Percent oz/ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
<i>Alena 2</i> <i>Sample</i> <i>Sardanelle</i> <i>Upper</i> <i>50' tunnel</i> <i>APP ds</i>	0.10	9.2	62.85	0.05								
	Spec. to follow											

[Signature]
.....
Registered Assayer, Province of British Columbia



GENERAL TESTING LABORATORIES

DIVISION: SUPERINTENDENCE COMPANY (CANADA) LTD

1001 EAST PENDER STREET, VANCOUVER 6, B.C., CANADA
 PHONE (604) 254-1647 TELEX 04-507514 CABLE SUPERVISE

TO: MR. M. D. FREDLUND
 R.R. #1 Bond Road
 Winfield, B.C.

CERTIFICATE OF ASSAY

No.: 7311-0150 DATE: Nov. 6th/73

hereby certify that the following are the results of assays on: ORE

MARKED					COPPER	LEAD	GOLD	SILVER
					(Cu)%	(Pb)%	OZ/ST XXXXX GR/MT	OZ/ST XXXXX GR/MT
<i>Cardinelle Inside upper Tennell</i>								
P.O. NO. E 123659								
Lead sample					---	29.84	---	3.92
<i>50' T. sample</i>					1.31	---	2.88	6.54
HS/pm								

NOTE: REJECTS RETAINED ONE MONTH. PULPS RETAINED THREE MONTHS. ON REQUEST PULPS AND REJECTS WILL BE STORED FOR A MAXIMUM OF ONE YEAR.

ALL REPORTS ARE THE CONFIDENTIAL PROPERTY OF CLIENTS. PUBLICATION OF STATEMENTS, CONCLUSION OR EXTRACTS FROM OR REGARDING OUR REPORTS IS NOT PERMITTED WITHOUT OUR WRITTEN APPROVAL. ANY LIABILITY ATTACHED THERETO IS LIMITED TO THE FEE CHARGED.

H. Sharples *APP 26*
 H. Sharples PROVINCIAL ASSAYER

COPY

Analytical and Consulting Chemists, Bulk Cargo Specialists, Surveyors, Inspectors, Samplers, Weighers

MEMBER: American Society For Testing Materials • The American Oil Chemists' Society • Canadian Testing Association
 Vancouver Merchants Exchange • National Institute Of Oilseed Products • The American Oil Chemists' Society
 Vancouver Merchants Exchange

To: Magnum Enterprises Ltd.

REPORT No A25 - 39

PAGE No. 1

BONDAR-CLEGG & COMPANY LTD.

DATE: Feb. 14/75

Box 372
Cranbrook, B.C. VIC 4H9

CERTIFICATE OF ASSAY

Samples submitted: Feb. 11/75
Results completed: Feb. 14/75

I hereby certify that the following are the results of assays made by us upon the herein described ore samples.

MARKED	GOLD		SILVER	Cu	Pb						TOTAL VALUE PER TON (2000 LBS.)
	Ounces per Ton	Value per Ton	Ounces per Ton	Percent	Percent	Percent	Percent	Percent	Percent		
18558 B <i>Dandeville Upper Melchite Quartz</i>	2.73		6.1	1.32	6.90						

App 81

R. Keith Rogers
Registered Assayer, Province of British Columbia

To: Magnum Enterprises Ltd.

REPORT No A25 - 608

PAGE No. 1

BONDAR-CLEGG & COMPANY LTD.

DATE: Aug. 26/75

Box 372
Cranbrook, B.C. V1C 4H9

Samples submitted: Aug. 21/75
Results completed: Aug. 26/75

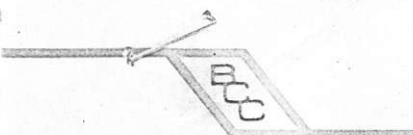
CERTIFICATE OF ASSAY

I hereby certify that the following are the results of assays made by us upon the herein described ore samples.

MARKED	GOLD		SILVER								TOTAL VALUE PER TON (2000 LBS.)
	Ounces per Ton	Value per Ton	Ounces per Ton	Percent	Percent	Percent	Percent	Percent	Percent		
18676 B	0.01										
18677 B	0.02										
18678 B	0.005										
18679 B	0.005										

App dg


Registered Assayer, Province of British Columbia



BONDAR-CLEGG & COMPANY LTD.

768A BELFAST ROAD (M.R. 1), OTTAWA, ONTARIO K1G 0Z5
 PHONE: 237-3110

BRANCH OFFICES
 INDUSTRIAL RD., 1500 PEMBERTON AVE., BOX 487,
 WHITEHORSE, Y.T. NORTH VANCOUVER, B.C. CAMPBELLTON, N.B.

SEMI-QUANTITATIVE ANALYSIS

No: A24 - 822

Sample No. #1

From: magnum Enterprises Ltd.

Method: X.R.F.

Date: Nov. 1 19 74

No. of Elements: 32

Analyst:

MAJOR ELEMENTS (%)	<.003	.003-.01	.01-.03	.03-0.1	0.1-0.3	0.3-1.0	1.0-3.0	3.0-10.0	> 10.0	REMARKS
SiO ₂									X	
Al ₂ O ₃							X			
Total Fe (Fe ₂ O ₃)								X		
MgO					X					
CaO					X					
Na ₂ O			X							
K ₂ O					X					
TiO ₂				X						
TRACE ELEMENTS (%)										
V		X								
Cr	X									
Mn				X						
Co	X									
Ni	X									
Cu				X						
Zn		X								
As			X							
Sr			X							
Y		X								
Zr		X								
Nb	X									
Mo			X							
Ag	X									
Sn	X									
Sb				X						
Ba	X									
La	X									
Ce	X									
W	X									
Pb								X		
Bi	X									
Th						X				
U	X									

App 29

APPENDIX E

B.C.M.M. ANNUAL REPT., pp. 49; YEAR?

Dibble Mine

The property of Dibble Mines, Limited, is located at an elevation of 6,700 feet in Lost Creek basin. It is reached by a good horse trail, about 5 miles long, up Lost creek. Preliminary development in the season of 1935 was being done under the direction of G. M. Wittichen of Calgary. The deposit is in Creston argillaceous quartzites on the north side of the Lost Creek fault. Most of the deposits consist of small quartz stringers containing bunches of high-grade ore which, because of the cost of transportation, are too small to be mined profitably. Before the acquisition of the property by the present company a considerable amount of surface work was done on these stringers and a little ore shipped. During the season of 1935, however, a vein 2 to 3 feet wide, striking roughly east and dipping 70 degrees north, was encountered in the face of a tunnel 215 feet long. What is possibly the upward extension of this vein is exposed in an open-cut on the hill-side above the tunnel. The writer was not able to find the westward extension of the vein from the open-cut, although outcrops are plentiful in this direction. East of the open-cut the surface is covered by drift and the possibilities of the continuation of the vein in this direction are not known. In addition to the veins and stringers mentioned, a number of siliceous zones occur in the quartzites. These appear to be entirely barren and must not be confused with ore-bearing veins. The principal sulphide in the vein and stringers is tetrahedrite. The owners report that high assays in silver and gold are obtained from the tetrahedrite. The main vein had not been exposed for a sufficient distance at the time of the writer's visit to permit an estimation of its commercial possibilities.

Fisher Group

The Fisher group of claims, owned by E. H. Nagle and Clarence Myrene of Kimberley, is located, at an elevation of 6,500 feet, on the south side of Boulder creek. A 7-foot bed of dolomitic limestone in the Cranbrook formation, occurring in a greatly disturbed part of the Wild Horse River fault zone, has been shattered and the fractures so produced filled with quartz. This quartz forms a network of stringers an inch or so wide traversing the rock. The mineralized bed has been exposed in a deep open-cut and traced on the surface for several hundred feet. In the open-cut about 10 per cent of the mineralized bed consists of vein matter. The quartz veinlets carry galena, pyrite, and a little chalcopyrite. Picked samples from these veinlets taken by the owners are reported to run as high as 1.56 ounces of gold, and 104 ounces of silver a ton.

Palmayra Group

The Palmayra group, owned by Charles Reynolds and Emil Banks of Fort Steele, is on the northwest side of Wild Horse river at an elevation of 4,700 feet. It is reached by a trail about three-quarters mile long from the end of the automobile road along Wild Horse river. Five tunnels and a shaft have opened up one or more syenite dykes cutting Aldridge argillites. The dyke in the lowest tunnel (No. 1) is very irregular in shape, but apparently dips nearly vertically. This dyke, particularly the part of

it at the fork of the tunnel, has been faulted and considerably shattered. The fractures so produced have been filled with quartz and a considerable part of the dyke rock itself replaced by quartz. The quartz is mainly confined to the zone of intense shattering, but small quartz stringers occur all through the dyke. These stringers are confined to the dyke itself and do not persist into the argillites. The quartz is sparsely mineralized with pyrite and galena.

The deposits in the remaining workings cannot be directly related to that in No. 1 tunnel. These workings expose a flat-lying vein, 10 to 30 feet thick, which is considerably shattered and faulted. In tunnels Nos. 2 and 5 this vein occurs in or along the margin of a flat-lying dyke. In tunnels Nos. 2 and 3 sulphides are rather scanty, but in tunnel No. 5, which was being driven at the time of the writer's visit, galena is fairly abundant and is accompanied by some anglesite (lead sulphate). The vein there lies on the hanging-wall side of the dyke and dips at an angle of a few degrees into the hill. It does not appear in tunnel No. 4 and may have been displaced by a minor fault. Development work should be confined to establishing the continuity of this vein and to the outlining of possible ore shoots contained in it.

Dardenelles Group

References: Ann. Repts., Minister of Mines, British Columbia; 1896, p. 523; 1925, p. 229; 1934, p. E 30.

The Dardenelles group, owned by Charles Reynolds and Emil Banks, is under option to the Marysville Mining Company, controlled by E. Davis of Toronto. It is on the west slope of Vertical mountain above the end of the Wild Horse River road, at an elevation of 6,000 feet. The workings consist of three inclined shafts and an open-cut. The lowest shaft, situated near the cabin, is partly caved, but exposes a quartz vein in and along the margin of a severely altered, carbonatized syenite dyke which cuts Creston argillaceous quartzites. The strike of this vein is about north 40 degrees west and the dip 20 degrees south. Both it and the dyke appear to occupy a thrust fault and both have been subjected to later movements along this fault. The vein is from 1 to 3 feet wide and carries bunches of galena and chalcopyrite. Between 400 and 500 feet east of this shaft an open-cut has exposed a vein and dyke, also in the zone of a thrust fault. The relationship of dyke, ore, and faulting is similar to that in the shaft. A second inclined shaft has been sunk to a depth of 55 feet about 300 feet southwest of the first. This shaft exposes a different vein striking north 60 degrees east and dipping 25 degrees south. The vein is from 3 to 4 feet wide and occurs along the foot-wall of an altered syenite dyke. Fragments of the dyke occur in the body of the vein and the latter probably was formed, in part at least, by replacement of the dyke rock. Most of the vein is barren of sulphides, but a streak of almost solid galena up to 7 inches wide follows the centre of the vein parallel to the walls. The galena has, in places, been altered to anglesite. A sample taken by the resident engineer across 7 inches of this high-grade streak ran 0.08 ounce gold, and 5.0 ounces silver a ton, 43 per cent lead, and a trace of zinc¹. The third shaft is located a short distance to the southwest of the second and is caved.

¹ Ann. Rept., Minister of Mines, 1934, p. E 30.