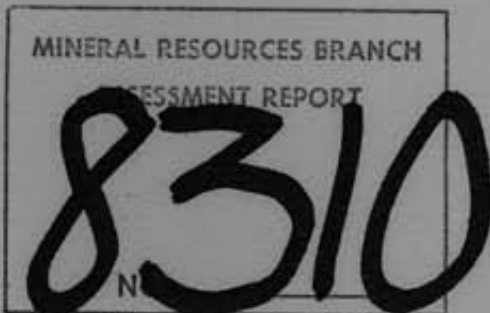


Diamond Drilling Assessment Report
on the Azela Reverted Crown Grant,
Jenny Long Group
Situated Immediately South of
Stump Lake
Nicola Mining Division, B. C.
N.T.S. 92I/8W

Latitude 50° 20'N, Longitude 120° 20'W.
Work Done June 14, to June 30, 1980

on behalf of
Mr. C.F. Graham, of Merritt, B. C.
for the owners:
G.M. Packer and C.F. Graham



Report by:

D. R. Cochrane, P. Eng.,
and
R. Wolfe, P. Eng.,
August 27, 1980,
Delta, B. C.



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

geology
geophysics
geochemistry

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III	Certificate



INTRODUCTION

The Jenny Long Group covers a former gold, silver, lead and zinc producer situated south of Stump Lake, B. C.

On June 14, 1980, H. Allen Drilling was mobilized to the Jenny Long Group, and particularly the Azela reverted crown grant, to test the Azela vein at depth, north of the located vein in the Azela shaft.

This report describes this work and is designed for assessment work submission. Details are set out in Appendix I, at the end of this report.

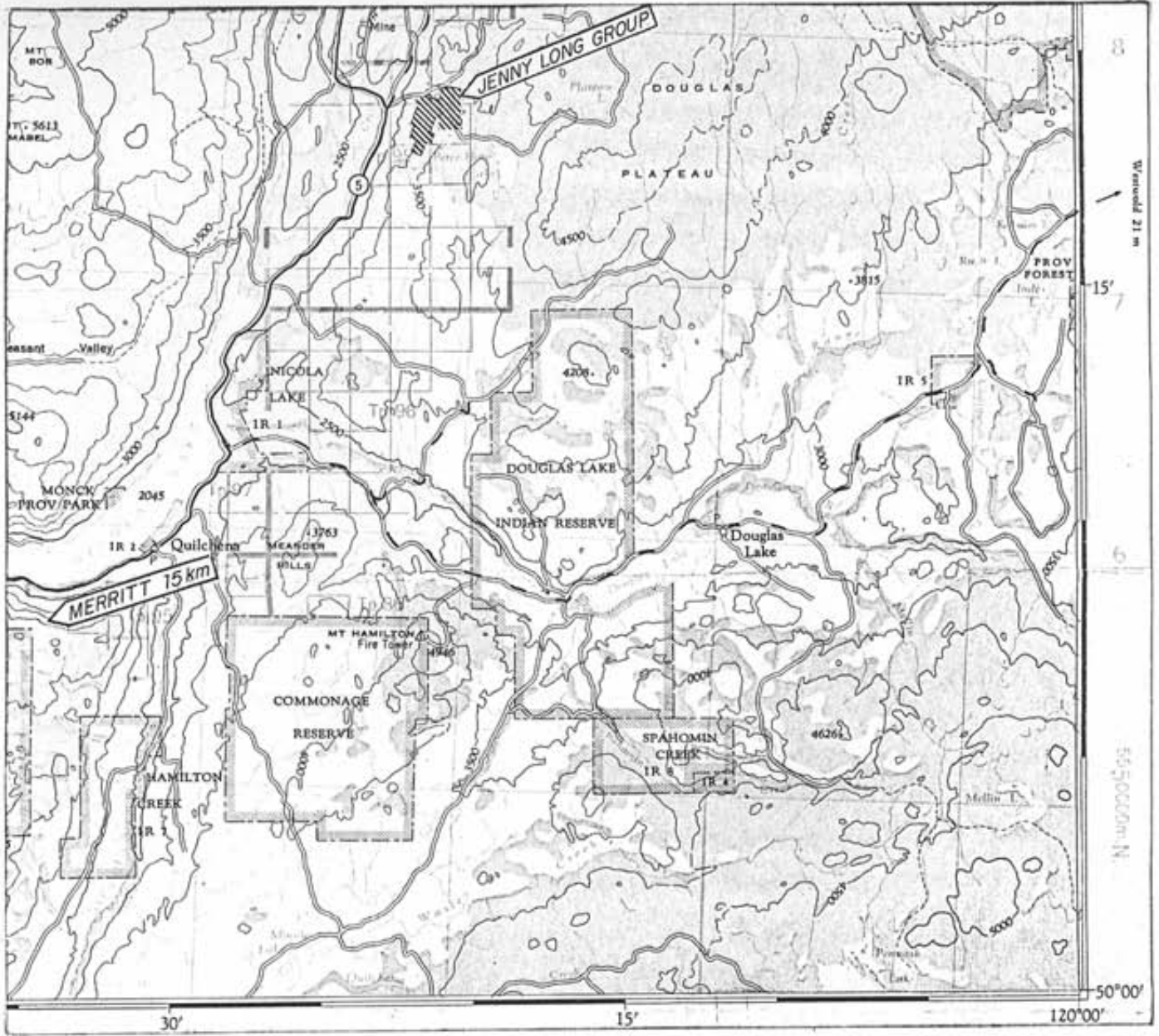


LOCATION AND ACCESS

The Jenny Long group is situated immediately south of Stump Lake, approximately forty road kilometres northeast of Merritt, B. C., and midway between Merritt and Kamloops. Facile access is from highway no. 5 and east by a series of gravel roads.

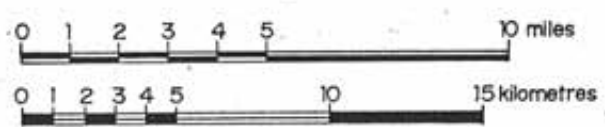
The N.T.S. code for the area is 92I/8W., latitude is 50° 20'N., Longitude 120° 20'W.





C.F. Graham · Merritt B.C.
Jenny Long Group
 Nicola M.D., South of Stump Lake B.C. 92 1/8W.
 Figure 1
 Location Map

Scale : 1 to 250,000 or 1 inch equals approx. 4 miles.



CLAIMS INFORMATION

The Jenny Long group comprises fourteen reverted crown grants owned by G.M. Packer, of Delta, B.C., and one modified grid staked claim of eight units owned by C.F. Graham, of Merritt, B.C. They are plotted on the B.C. Department of Mines and Petroleum Resources map M92I/8 west half, in the Nicola Mining Division. Pertinent claims information is listed in the following table:

CLAIM NAME	LOT NO.	REC. NO.	ANNIVERSARY DATE	EXPIRY * YEAR
Azela	692	677	August 13	1983
Jenny Long	718	678	August 13	1983
Parkview No. 3	5041	679	August 13	1983
Bluebird	5042	680	August 13	1983
Wren	5043	681	August 13	-1983
Clara B	5045	682	August 13	1983
The Garden No. 1	5046	683	August 13	1983
Dorothy	5047	684	August 13	1983

Cont'd.



CLAIM NAME	LOT NO.	REC. NO.	ANNIVERSARY DATE	EXPIRY * YEAR
Brian	5091	685	August 13	1983
Scotia	5092	686	August 13	1983
The Garden No. 2	5093	687	August 13	1983
The Garden No. 3	5094	688	August 13	1983
The Garden No. 4	5095	689	August 13	1983
The Garden No. 5	5096	690	August 13	1983
Dot (8 units)	- -	803	February 13	1984

* includes assessment work credits applied for
by this report.

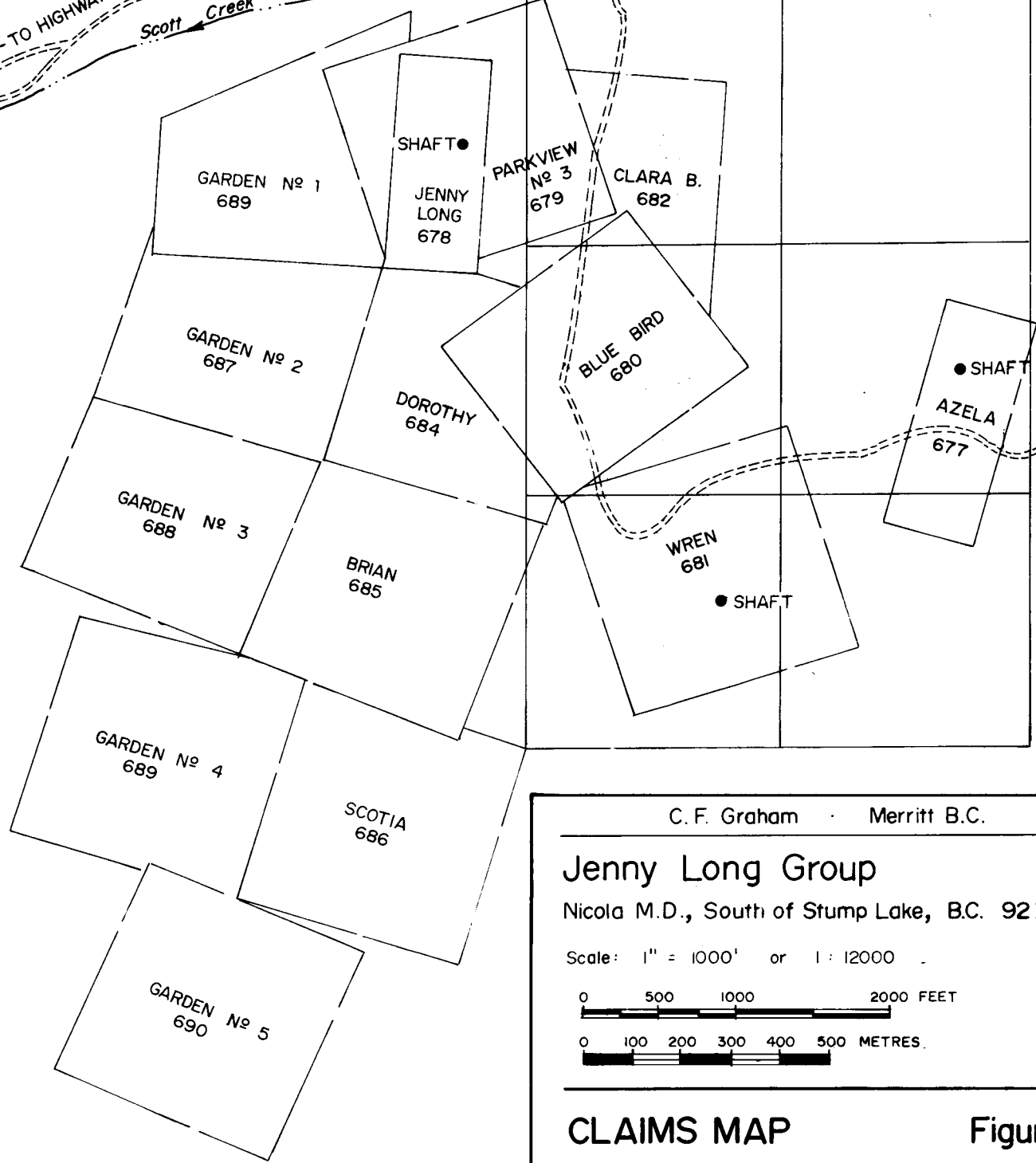




ASTRO

L.C.P.
DOT
803

TO HIGHWAY No 5
Scott Creek

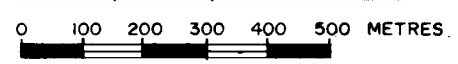
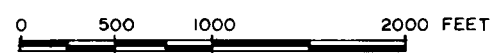


C. F. Graham · Merritt B.C.

Jenny Long Group

Nicola M.D., South of Stump Lake, B.C. 921/8W

Scale: 1" = 1000' or 1:12000



CLAIMS MAP

Figure 2

K.U. AUG, '80

GENERAL SETTING

The following has been extracted from a Geophysical Assessment Report on a portion of the Jenny Long Group by D.R. Cochrane, P. Eng., dated August 2, 1978, and is reproduced below:

"The Stump Lake area lies in the Thompson Plateau region of the Central Interior of British Columbia. It is a moderately gently rolling upland surface bounded on the east by the Douglas Plateau and on the west by the Nicola Plateau. The property lies at an elevation close to 760 metres above sea level in arid, open sage and scrub brush type country."

"The region is underlain by Upper Triassic Nicola group rocks which consist mainly of greenstone, andesite, basalt and related tuffs. (Cockfield, 1961)."



"This wedge of Nicola Rocks is banded on the east by the Wildhorse Mountain and Douglas Lake batholiths and on the west by the Central Nicola batholith, all of which are believed to be Jurassic and (?) later rocks. (Cockfield, 1961). The region was occupied by Pleistocene ice and an extensive mantle of drift and glacio-lacustrine deposits cover much of the bedrock surface."

"The Stump Lake area is host to several vein and shear zone deposits; the former are generally restricted to north trending fissures and the shear zone type consists of knots and stringers of quartz and carbonate veinlets sometimes with accompanying sulphides. (Various Reports of the Minister of Mines, B. C.). Ore minerals consist of pyrite, galena, sphalerite, tetrahedrite, chalcopyrite, bornite, scheelite and small amounts of arsenopyrite, pyrrhotite, and native gold. The veins are cut and offset by many small faults. (Cockfield, 1961 pg. 46 and 47)."



DIAMOND DRILLING WORK

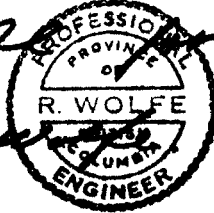
H. Allen drilling was mobilized June 14, to the Azela reverted crown grant. Two BQ core holes were drilled; hole "A" at bearing S.70°W., dip -45°, to a depth of 39.9m (131'). Hole "B" from the same set-up (see figure 3) at bearing S.70°W., dip -65°, to a depth of 58.8m (193'). The entire hole "A" was split, logged and assayed; only the vein section was split, logged and assayed in hole "B".

Core splitting and logging was carried out in the shop at Cochrane Consultants Ltd. Assays for gold, silver and copper were analyzed by Min-En Labs Ltd., of North Vancouver, B. C.

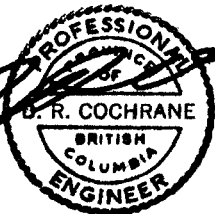
The results are presented in the following diamond drill logs (see also figure 4).



Respectfully submitted,

R. Wolfe
R. Wolfe
A circular professional seal for Robert Wolfe, a Professional Engineer in the Province of British Columbia. The seal contains the text "PROFESSIONAL ENGINEER" around the perimeter, "PROVINCE OF BRITISH COLUMBIA" in the center, and "R. WOLFE" in the middle. There are handwritten initials over the seal.

Robert Wolfe, P. Eng.

D. R. Cochrane
A circular professional seal for D. R. Cochrane, a Professional Engineer in the Province of British Columbia. The seal contains the text "PROFESSIONAL ENGINEER" around the perimeter, "PROVINCE OF BRITISH COLUMBIA" in the center, and "D. R. COCHRANE" in the middle. There are handwritten initials over the seal.

D. R. Cochrane, P. Eng.

August 27, 1980,

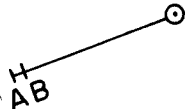
Delta, B. C.



APPROX. CLAIM LINE AZELA



D.D.H. A and B



ASTRO

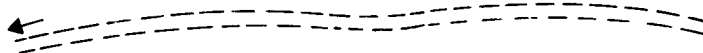
69°

AZELA SHAFT

AZELA VEIN

APPROX. CLAIM LINE DOT

To Scott Cr. Road
and Merritt

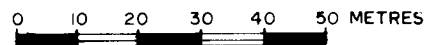


C. F. Graham · Merritt B.C.

Jenny Long Group

Nicola M.D., South of Stump Lake, B.C. 921/8W

Scale : 1" = 100' or 1 : 1200



DIAMOND DRILL PLAN
AZELA VEIN

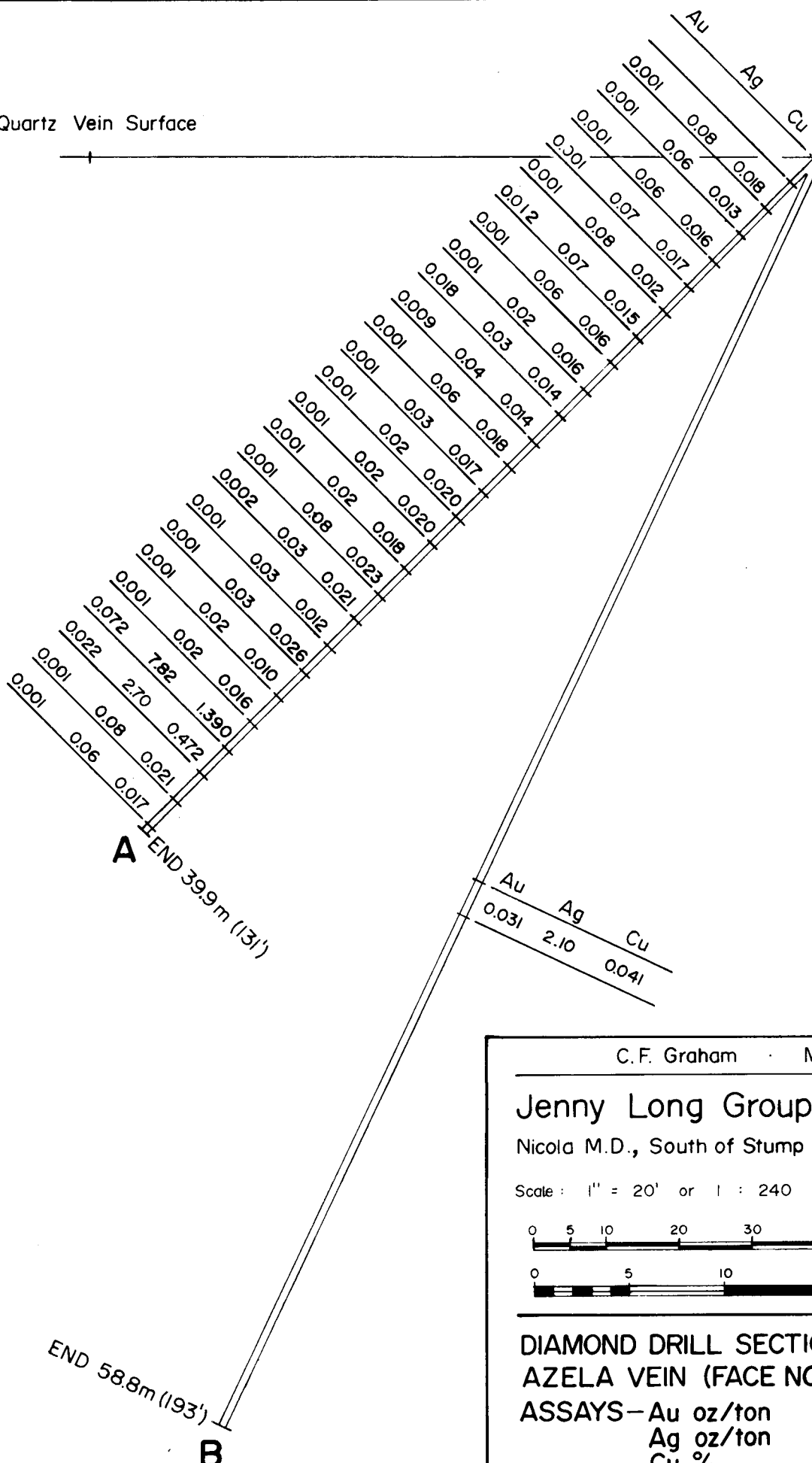
Figure 3

K.U. AUG.'80



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Quartz Vein Surface

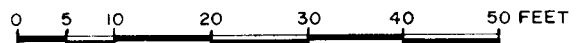


C.F. Graham · Merritt B.C.

Jenny Long Group

Nicola M.D., South of Stump Lake, B.C. 921/8W

Scale: 1" = 20' or 1 : 240



DIAMOND DRILL SECTION AZELA VEIN (FACE NORTH)

Figure 4

ASSAYS—Au oz/ton
Ag oz/ton
Cu %

K.U. AUG. '80

DIAMOND DRILL HOLE LOGS



PROPERTY Jenny Long Group

Diamond Drill Record



Cochrane Consultants Limited

DIP TEST		
Footage	Angle	
	Reading	Corrected
collar	-45°	

71.6m (235') N.05°E.

HOLE No. A Sheet No. 1 of 5

Lat. of Azela shaft

Total Depth 39.9m (131')

Section 1

Dep. _____

Logged By R. Wolfe

Date Begun June, 1980

Bearing S. 70°W.

Claim Azela

Date Finished _____

Elev. Collar _____

Core Size BQ

Vein strikes N.20°W.

DEPTH	DESCRIPTION	Cu (%)	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	Ag oz/ton	Au oz/ton
0-1.2m (0-4')	Overburden ?							
1.2-2.1m (4-7')	Hornblende porphyry Hornblende >50% matrix sugary texture alteration - propylitic (green cast on felspar matrix) fractures filled with quartz and calcite Various angles - pyrite in fractures and also dissem.							
2.1-12.2m (7-40')	Fine grained Nicola - Mafics >70% Surface oxidation to 6.1m (20') - fractures as above grain size varies from very fine to coarse (2-3mm) Rock competent - hard and brittle.	.018	3951	1.5m 5'	3.0m 10'	1.5m 5'	.08	.001
		.013	3952	3.0m 10'	4.6m 15'	1.5m 5'	.06	.001
		.016	3953	4.6m 15'	6.1m 20'	1.5m 5'	.06	.001

PROPERTY Jenny Long Group

Diamond Drill Record



Cochrane Consultants Limited

DIP TEST		
	Angle	
Footage	Reading	Corrected
collar	-45°	

HOLE No. A Sheet No. 2 of 5 Lat. 71.6m (235') N.05°E.
 of Azela shaft
 Section 1 Dep. _____
 Date Begun June, 1980 Bearing S.70°W.
 Date Finished _____ Elev. Collar _____

Total Depth 39.9m (131')
 Logged By R. Wolfe
 Claim Azela
 Core Size BQ

Vein strikes N.20°W.

DEPTH	DESCRIPTION	Cu(%)	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	Ag oz/ton	Au oz/ton
2.1-12.2m (7-40')		.017	3954	6.1m 20'	7.6m 25'	1.5m 5'	.07	.001
		.012	3955	7.6m 25'	9.1m 30'	1.5m 5'	.08	.001
		.015	3956	9.1m 30'	10.7m 35'	1.5m 5'	.07	.012
		.016	3957	10.7m 35'	12.2m 40'	1.5m 5'	.06	.001
12.2-14.3m (40-47')	Fractures showing chloritic slicken- sides (some hematitic)	.016	3958	12.2m 40'	13.7m 45'	1.5m 5'	.02	.001
14.3-24.1m (47-79')	As from 2.1-12.2m (7-40') chloritiza- tion more pervasive 15.6-15.9m (51-52') chloritic fault gouge 25m (82') quartz	.014	3959	13.7m 45'	15.2m 50'	1.5m 5'	.03	.018
	vein 1cm - 80° to C/A	.014	3960	15.2m 50'	16.8m 55'	1.5m 5'	.04	.009
	calcite 1mm - 80° to C/A							
	Specs of MOS ₂ in quartz.							

PROPERTY Jenny Long Group

Diamond Drill Record



Cochrane Consultants Limited

DIP TEST		
Footage	Angle	
	Reading	Corrected
collar	-45°	

71.6m (235') N.05°E.

HOLE No. A Sheet No. 4 of 5 Lat. of Azela shaftTotal Depth 39.9m (131')Section 1 Dep. _____Logged By R. WolfeDate Begun June, 1980 Bearing S.70°W.Claim Azela

Date Finished _____ Elev. Collar _____

Core Size BQ

Vein strikes N.20°W.

DEPTH	DESCRIPTION	Cu (%)	SAMPLE No.	FROM	TO	WIDTH of SAMPLE	Ag oz/ton	Au oz/ton
26.8-33.9m (88-111')	Hornblende porphyry - alteration (epidote and chlorite) propylitic matrix predominantly Mafic	.021	3967	25.9m	27.4m	1.5m	.03	.002
	Pyrite in micro fractures and dissem.	.012	3968	27.4m	29m	1.5m	.03	.001
	28.7m (94') - 1" quartz vein 70° to C/A			90'	95'	5'		
		.026	3969	29m	30.5m	1.5m	.03	.001
				95'	100'	5'		
		.010	3970	30.5m	32m	1.5m	.02	.001
				100'	105'	5'		
		.016	3971	32m	33.5m	1.5m	.02	.001
				105'	110'	5'		
33.9-34.5m (111-113')	Silicified and bleached zone - pyrite 2-4%							
34.5-35.1m (113-115')	Quartz vein - pyrite - some tetrahedrite (?) at 35.1m (115') - 2" massive sulphides - large sphalerite X-tal - massive tetrahedrite (?)	1.390	3972	33.5m	35.1m	1.5m	7.82	.072
				110'	115'	5'		

APPENDIX I

ASSESSMENT WORK DETAILS

H. Allen Drilling Ltd; June 14 to June 30, 1980

324' (98.9m) BQ drilling
at \$24/foot \$ 7,776.00

Core Splitter;

splitting, 16 hours at \$6/hour 96.00

Robert Wolfe, P. Eng.,

1 day at \$300/day 300.00

D. R. Cochrane, P. Eng.,

1/2 day at \$300/day 150.00

Min-En Labs Ltd., 26 assays for Au, Ag, Cu

at \$22/assay 572.00

Draftsperson, 32 hours at \$18.25/hour 584.00

Typist, 4 hours at \$12/hour 48.00

Reproduction, binding, collating 122.00

TOTAL \$ 9,648.00

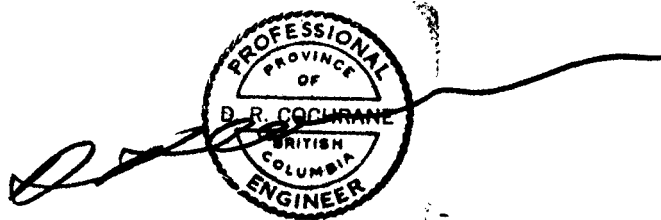


APPENDIX II

CERTIFICATE

I, Donald Robert Cochrane, of the Municipality of Delta, British Columbia, do hereby certify that:

1. I am a consulting geological engineer with an office at 4882 Delta Street, Delta, B. C.
2. I am a graduate of the University of Toronto (1962) with a degree in Applied Geology (B.A.Sc.) and a graduate of Queen's University (1965) with a Master of Science Degree in Geological Sciences (Engineering).
3. I have practiced my profession continuously since graduation while being employed by such companies as Noranda Exploration Co. Ltd., Quebec Cartier Mines, and Meridian Explorations Syndicate. I have been in private independent practice since 1969.
4. I am a member in good standing of the Association of Professional Engineers (A.P.E.) of the Province of British Columbia, and also a member of the A.P.E. in the Province of Ontario, Saskatchewan, Alberta and the Yukon Territories.



D. R. Cochrane, P. Eng.,
August 27, 1980,
Delta, B. C.




APPENDIX III

CERTIFICATE

I, Robert Wolfe, of the Municipality of Maple Ridge, British Columbia, do hereby certify that:

1. I am a consulting geological engineer with an office at 4882 Delta Street, Delta, B. C.
2. I am a graduate of the University of Alberta, (1963) with a degree in Geology and Physics (B.Sc.). I also took an extra year of Geology at the University of British Columbia, in 1963-64.
3. I have practiced my profession since 1964 while being employed by such companies as KennCo (Western) Exploration, Meridian Exploration Syndicate, (Canex Aerial Exploration Ltd., Noranda Mines Ltd., Home Oil Co.) Orequest Syndicate (Granby Mining Co., Home Oil Co. Homestake Silver Mines.) I have been in private independent practice since 1968.
4. I have been a member in good standing of the Association of Professional Engineers of the Province of British Columbia since 1967.

R Wolfe
R Wolfe

A circular seal for a Professional Engineer of the Province of British Columbia. The seal contains the text "PROFESSIONAL ENGINEER OF THE PROVINCE OF BRITISH COLUMBIA" around the perimeter and "R. WOLFE" in the center.

Robert Wolfe, P. Eng.,
August 27, 1980,
Delta, B. C.

