

11/86

14135

DIAMOND DRILLING

on the

BONNIE GROUP

(Bonnie, Marwill No. 1 & 2, G and R 5-8, Dale 1-4,
Speculator and Mt. Glen, Mt. Glen 2-4,
Keith No. 7, and David A. Mineral Claims)

Omineca Mining Division

93 M/5E

55° 19' N 127° 38' W

(North of Hazelton, B.C.)

Owner and Operator: Tri-Con Mining Ltd.

Writer: A.M. Homenuke, P. Eng. (Geol.)

Submitted: November 13, 1985

**GEOLOGICAL BRANCH
ASSESSMENT REPORT****14,135****Tri-con Mining Ltd.**

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I. INTRODUCTORY NOTES

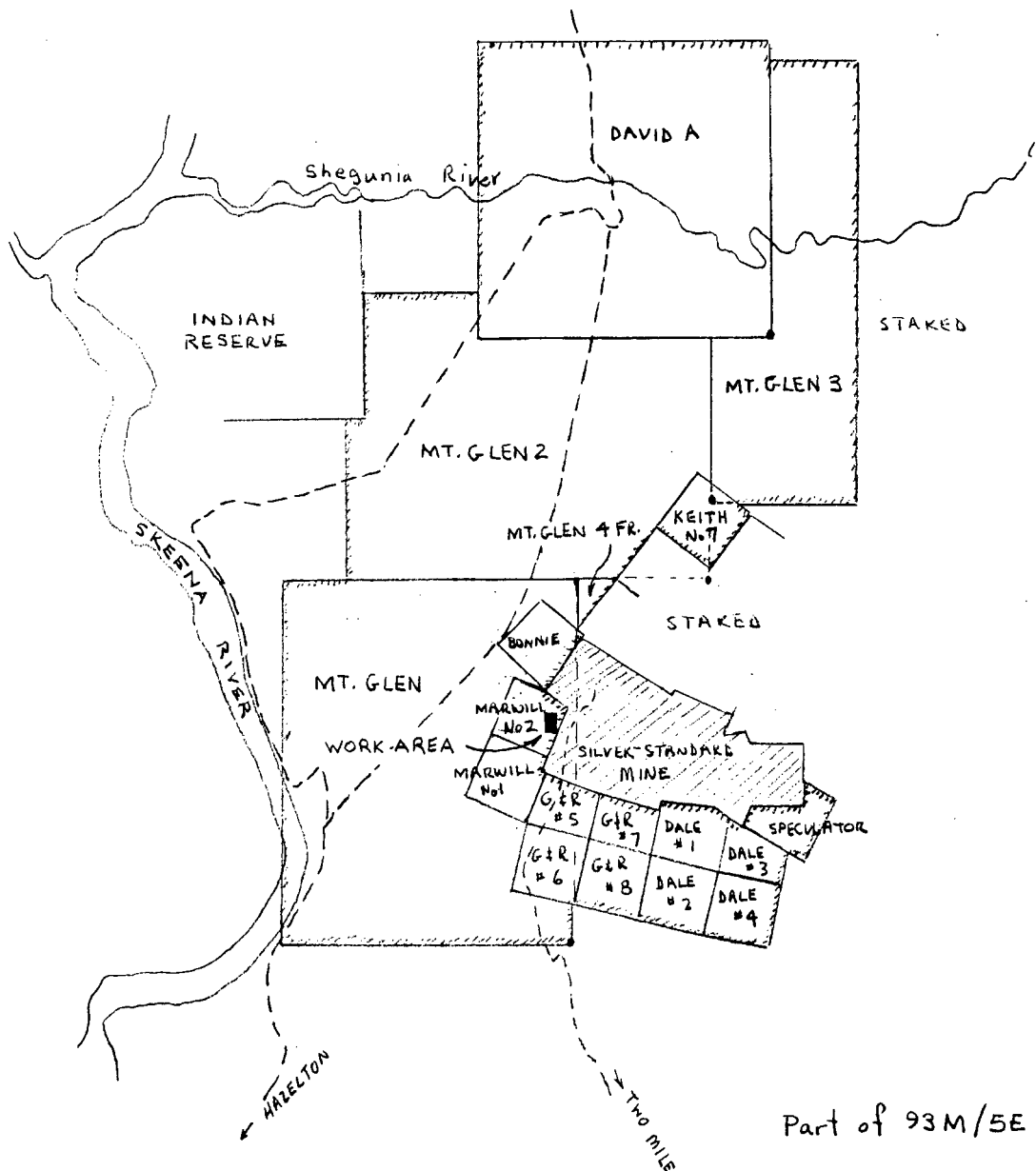
Location and Access

The Bonnie Claim Group covers an area from the southern and western slopes of Mount Glen, adjoining the Silver Standard Mine, to the Skeena River on the West and to the Shegunia River on the north and is centered about 8 km. north-northeast of Hazelton, B.C. (Fig. 1). Access to the west side of the claims is provided by the recently relocated Salmon River Road which branches off the Hazelton-Kispiox Highway. The Silver Standard Mine Road passes through the center of the claim group, and old mining and logging roads provide local, in part 4-wheel drive, access.

Physical Features

Mount Glen, elevation 645 metres, is located on the southeast portion of the claim group. The mountain has a relatively flat top about 700 metres wide, then drops steeply to Two Mile Creek on the east and the Silver Standard Mine Road on the west. The area between the Mine Road and the Skeena River on the west side of the claims is relatively flat in general aspect, but locally made up of abrupt ridges and gullies with swamps in many of the low areas. The river, where it cuts the claim block, is at an elevation of 230 metres. Outcrops are scarce to non-existent except along the southern 500 metres of the claims, on the slopes of Mount Glen and along the banks of the Shegunia River.

The area is covered by a mixed coniferous-deciduous forest, in part second growth after a fire at the turn of the century, except along the Skeena River where it is cleared for farming. Much of the area was selectively logged for cedar poles and there are marketable stands of cedar and spruce remaining. The deciduous growth consists of birch,



Part of 93M/5E

┌── BONNIE GROUP BOUNDARY
 ↙ Legal Corner Post

TRI-CON MINING LTD.
BONNIE PROPERTY

CLAIM & INDEX MAP

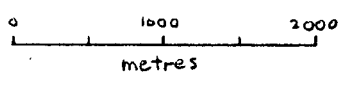


FIG. 1

poplar and alder and represents about 20% of the forest. Undergrowth is moderate and in general does not impede foot travel, however there are many small and a few large swamps which inhibit access to some degree.

Property Description

The Bonnie Group consists of 13 reverted crown grants, which were formerly part of the Silver Standard Mine holdings, and several location claims. (Fig. 1.) Table I below summarizes the claim data.

TABLE I. BONNIE GROUP

<u>Name</u>	<u>Lot No.</u>	<u>Record No.</u>	<u>Units</u>	<u>Year Acquired</u>	<u>Record Date</u>
Bonnie	6454	305	1	1976	June 3
Marwill No. 1	6457	306	1	1976	June 3
Marwill No. 2	6456	307	1	1976	June 3
G & R No. 5	6458	2468	1	1980	Feb. 15
G & R No. 6	6459	2469	1	1980	Feb. 15
G & R No. 7	6460	2470	1	1980	Feb. 15
G & R No. 8	6461	2471	1	1980	Feb. 15
Dale No. 1	6462	2472	1	1980	Feb. 15
Dale No. 2	6463	2473	1	1980	Feb. 15
Dale No. 3	6464	2474	1	1980	Feb. 15
Dale No. 4	6465	2475	1	1980	Feb. 15
Speculator	2412	2476	1	1980	Feb. 15
Mt. Glen	-	2490	20	1980	Feb. 25
(Claims added to the Bonnie Group in 1984.)					
Keith No. 7	6451	5691	1	1983	Aug. 19
Mt. Glen 2	-	5713	20	1983	Aug. 26
Mt. Glen 3	-	5714	12	1983	Aug. 26
Mt. Glen 4 Fr.	-	5715	1	1983	Aug. 26
David A.	-	5712	16	1983	Aug. 26
TOTAL			82		

Owner and Operator is Tri-Con Mining Ltd., of Vancouver,
B.C.

History

The adjoining Silver Standard Mine has been in operation since 1910, with major production during the period 1918 - 1922 and 1948 - 1958. It is presently being operated by a lessee, shipping a few railcar loads of ore per year.

Total production was about 200,000 tons yielding over 7.5 million ounces of silver plus gold, lead, zinc, copper and cadmium.

The Bonnie Group consists partially of reverted Crown-granted mineral claims which were once part of the Silver Standard Mine holdings. Old cat trenches and cut lines are present, but no records of work are available. A quartz vein with minor sulfides has been exposed on the southwest part of the claim group (National Ex Area). This was explored around 1950 by National Exploration Ltd. Tri-Con did limited work on this area in 1978 and 1980 (Homenuke, 1978, 1980) and a more extensive exploration program in 1981.

On the Bonnie - Marwill Area, immediately west of the Silver Standard Mine, Tri-Con has been exploring for a parallel continuation of the sequence of veins at the mine. VLF-EM surveying has been the primary tool; followed by backhoe trenching and, in 1981, by diamond drilling (Homenuke, 1982). A small amount of sulfide mineralization was found in 1979 near the claim boundary.

The claim group was expanded to the north in 1983 and now covers an intrusive on the south side of the Shegunia River and some small sulfide bearing quartz veins on the north side of the river.

During 1983, a geochemical survey was done along the southeast part of the claim group and a VLF-EM survey was done over approximately the southeast quarter of the group.

The Em survey was extended to cover a portion of the Silver Standard veins to aid interpretation of the results (Homenuke, 1984a).

Geochemical sampling in 1983 and 1984 on the new claims indicated several anomalies with the most intense being near a known intrusive (Homenuke, 1984b).

Economic Assessment

The historic production of the Silver Standard Mine at present metal prices, would be about 100 million dollars. The westerly limit of the known veins is also the point at which glacial overburden becomes substantially deeper.

None of the old Silver Standard cat trenches in this area reached bedrock. Previous VLF-EM surveying indicated possible vein structures. Recent drilling of one such EM target showed the presence of two veins, although no ore grade mineralization has yet been encountered. The results of this drill hole greatly enhanced the geologic potential of at least this part of the Bonnie property.

Present Work and Distribution

The current program consisted of 2 diamond drill holes totalling 45.7 m on the Marwill No. 2 claim. These holes were in the vicinity of a hole drilled in 1981. For the sake of completeness and consistency the 1981 hole was relogged and sampled during this program. Minor trail clearing was necessary.

II. DIAMOND DRILLING

Purpose

The holes were drilled to further test VLF-EM anomalies which are similar to anomalies over the Silver Standard Mine Veins.

Procedure

Two holes totalling 45.7m were drilled with a "Winkie" drill recovering a 25mm core (IEWS). The overburden was difficult to penetrate with the small drill due to depths up to 10m of glacial drift, boulders and basal till, thus costs were excessive.

Discussion of Results

Logs of the drill holes including BON-81-1 are shown in the Appendix. A plan and sections of the drill holes are shown on Fig. 2-4. All of the holes are within a tuffaceous sandstone horizon which hosts the largest ore shoots at the adjoining Silver Standard Mine.

BON-81-1 intersected two altered zones with 10 cm. quartz veins bearing minor economic sulfides. One vein assayed 0.048 oz. gold/ton.

BON-81-1 started in relatively unaltered rock, passed through an altered zone with a small quartz-sulfide vein followed by a short relatively unaltered section, then bottomed in highly altered rock probably indicating an approaching significant vein. The hole was stopped due to sanding.

BON-85-2 intersected a 0.4m quartz-sulfide vein within an altered zone at the top of the hole, then passed into relatively unaltered rock. 7.6 cm of massive sulfides in the center of the vein assayed 10.1 oz. silver/ton and 0.3 oz. gold/ton along with 8% lead and 4% zinc. This vein is identical to portions of the Silver Standard Veins. It may be correlated with VLF-EM anomalies in both the main vein and cross vein trends at the Silver Standard Mine. Further work will be necessary to determine the strike of the vein.

Projections from published data on the Silver Standard Mine along with data from the drill holes indicate that this part of the Bonnie Property should be underlain by at least 200m of the favourable tuffaceous sandstone horizon. In other words, the intersection in BON-85-2 should be near the top of a vein.

III. CONCLUSIONS & RECOMMENDATIONS

VLF-EM surveying, followed by diamond drilling have been successful in showing that there are further veins under deeper overburden to the west of the Silver Standard Mine. There are at least two more similar VLF-EM anomalies further west that are coincident with weak geochemical anomalies.

Further drilling, preferably with a larger drill to avoid problems with the overburden, should be carried out to delineate the known vein and test for more veins.

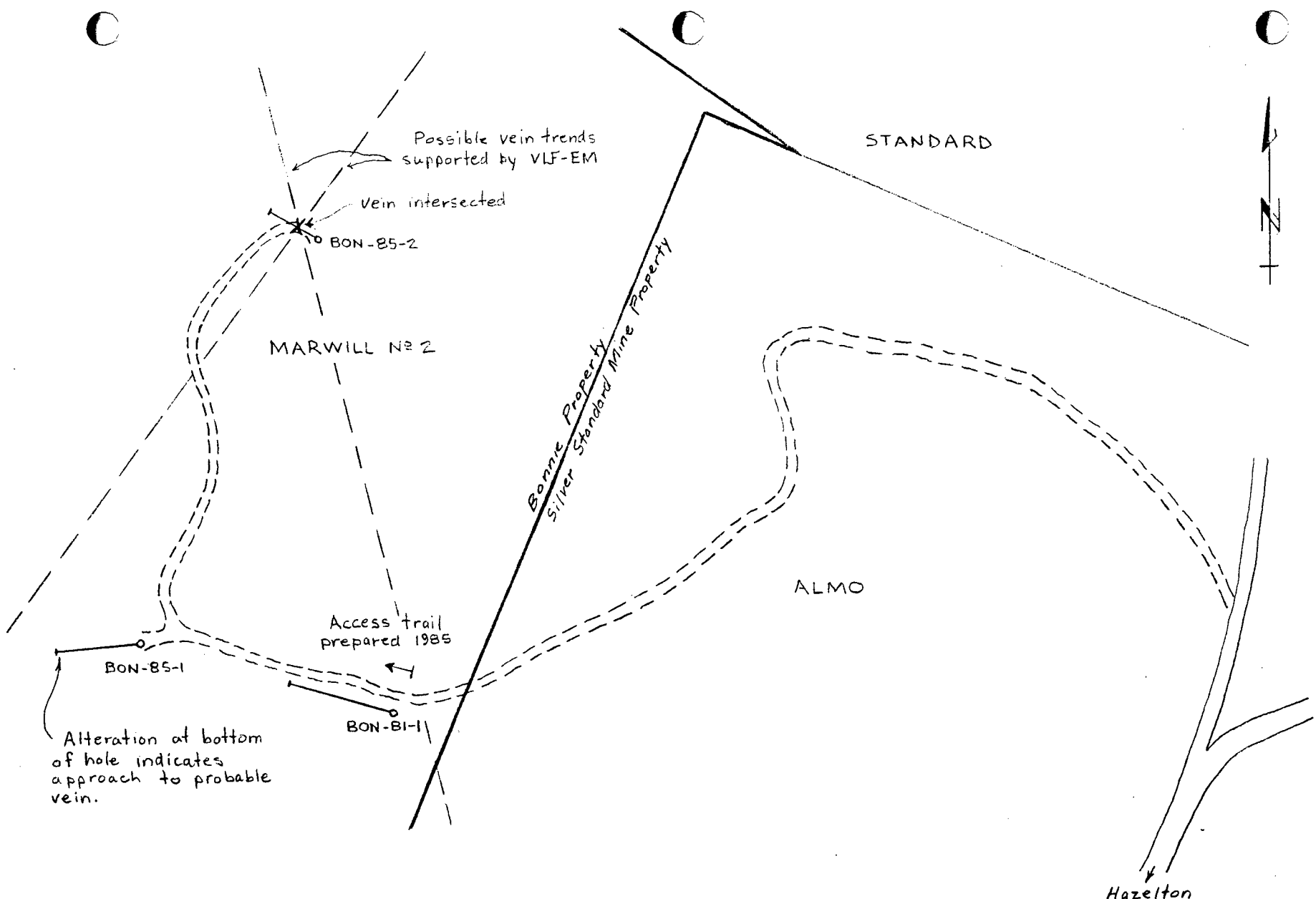
Respectfully submitted,

TRI-CON MINING LTD.

A.M. Homenuke

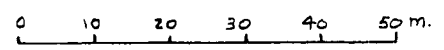
A.M. Homenuke, P. Eng.
Senior Vice President





Note: Core stored at drill sites

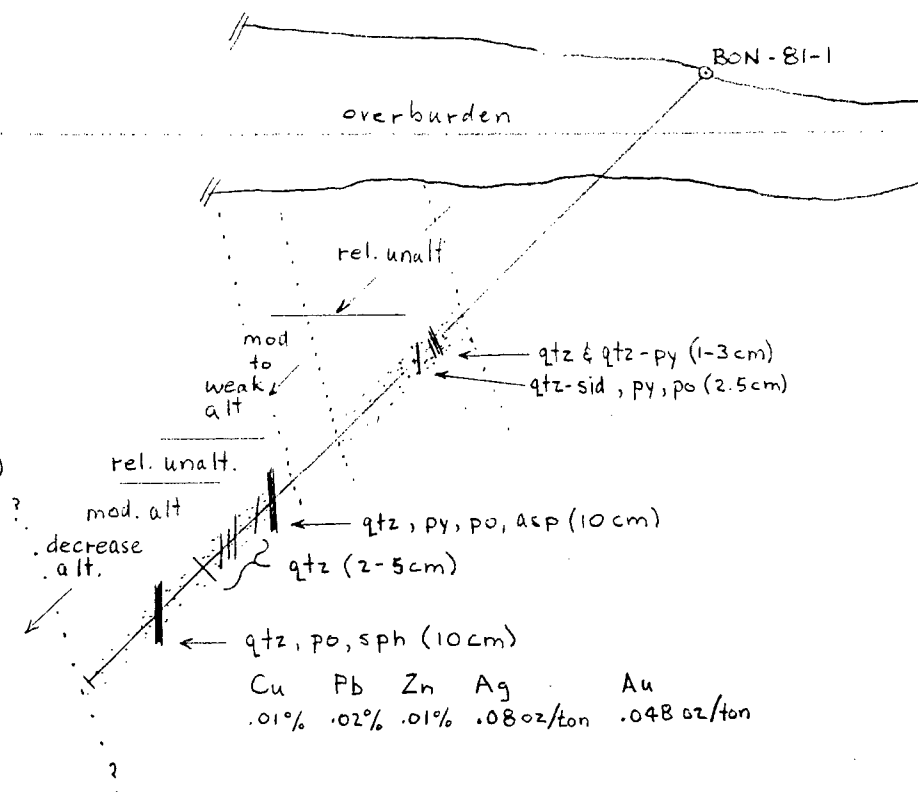
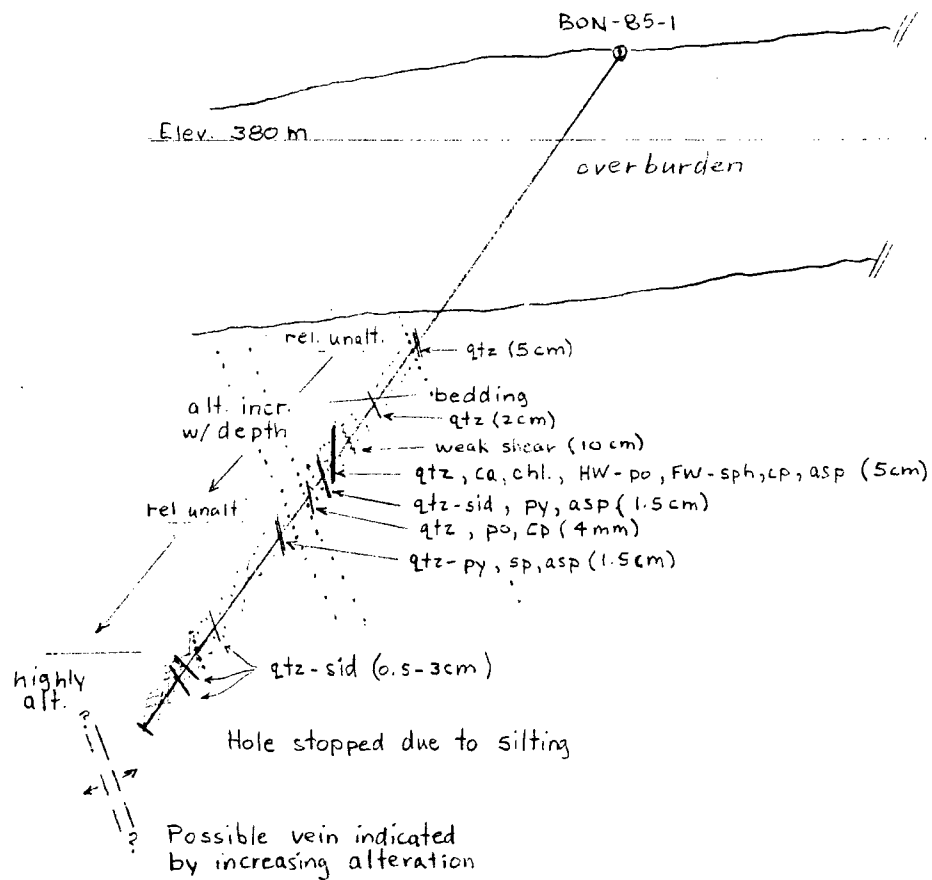
○ — Diamond drill hole



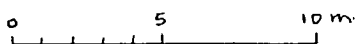
TRI-CON MINING LTD.
BONNIE PROPERTY
DRILL HOLE PLAN

Prepared by: A.M. Homenuke, P.Eng
 Nov. 1985

FIG. 2



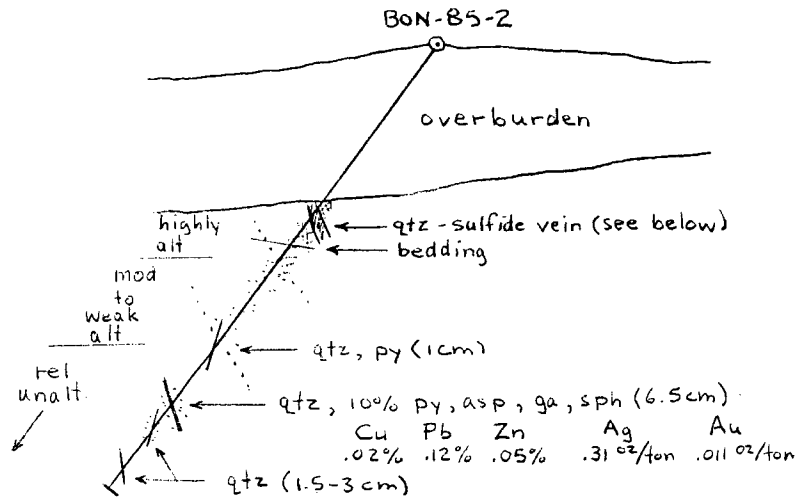
- Alteration boundary - direction assumed
- ||||| weak to moderate alteration
- ||||| Strong alteration
- Unaltered



CROSS SECTION
(looking north)

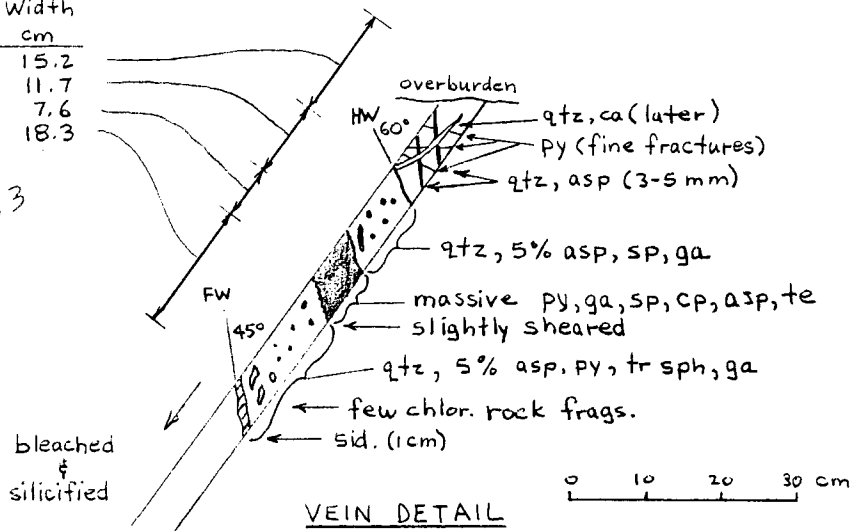
BON-81-1, BON-85-1

FIG. 3



Cu	Pb	Zn	Ag	Au	Width
%	%	%	oz/ton	oz/ton	cm
.01	.01	.01	.11	.007	15.2
.12	.05	1.64	.60	.008	11.7
.05	8.07	4.08	10.12	.390	7.6
.01	.89	.03	2.05	.052	18.3

347.0 10.3



CROSS SECTION
(looking north)
BON-85-2

FIG. 4

COST STATEMENT

Work on this project was still in progress on the last filing date for the claims the work is being applied to. An estimated cost of \$4,200 to that date (Aug. 26, 1985) was made for the filing statement. The following summary show the total cost on the project and the actual amount up to Aug. 26.

Site selection, surveying, trail clearing, mob and demob. and diamond drilling

<u>June 18, Aug. 15 - Sept. 4, Sept. 21, 1985</u>		<u>Portion to Aug. 26</u>	
Driller 17 days @ \$200/day	\$ 3,400.00	12 days	\$ 2,400
Helper 2 days @ \$150/day	300.00	2 days	300
Vehicle & gas 17 days @ \$65/day	1,105.00	12 days	780
Room & Board 19 man days @ \$40/days	760.00	14 man days	560
Drill Rental 150 ft. @ \$2/ft	300.00	90 ft.	180
Drill bits, core boxes, fuel supplies	300.00	2/3	200
Analysis 6 assays Cu,Pb,Zn,Au,Ag	175.50	-	-
A. Homenuke, P. Eng. Field & Report 3 days @ \$400/day	1,200.00	1/2	400
Secretarial, copying	<u>100.00</u>	1/2	<u>50</u>
	\$ 7,640.50		\$ 4,870
	<u>4,200.00</u>	filed previously	
Balance	\$ 3,440.50		
	=====		

REFERENCES

Homenuke, A.M., 1978, EM-16 and Prospecting Report on the Canadian Queen and Bonnie Groups (Ass. Rept.)

1981, EM-16 and Prospecting Report on the Bonnie Group (Ass. Rept.)

1982, Geophysic, Geochemistry & Diamond Drilling on the Bonnie Group (Ass. Rept.)

1984a, Geophysics & Geochemistry on the Bonnie Group (Ass. Rept.)

1984b, Geochemical Survey on the Bonnie Group (Ass. Rept.)


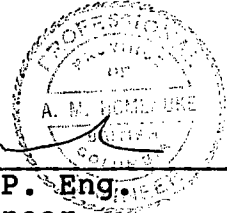
Smith, Alexander, 1956, "Silver Standard Mine" in Structural Geology of Canadian Ore Deposits, CIM Spec. Pub.

CERTIFICATE OF QUALIFICATION

I, ALEXANDER M. HOMENUKE, do hereby certify:

1. THAT I am a member in good standing of the Association of Professional Engineers of British Columbia.
2. THAT I received the Degree of Bachelor of Science in Geological Engineering from the Colorado School of Mines in 1974.
3. THAT I received a Diploma of Technology in Mining from the B.C. Institute of Technology in 1969.
4. THAT I have been employed in various aspects of mining exploration for 16 years and am presently employed by Tri-Con Mining Ltd., of #2580 - 1066 West Hastings Street, Vancouver, British Columbia.
5. THAT I presently reside at 29825 Harris Road, Mt. Lehman, British Columbia.
6. THAT this Report is based on work supervised or conducted by myself.

DATED at Vancouver, British Columbia, this 13th day of November 1985.



A.M. Homenuke, P. Eng.
Geological Engineer

APPENDIX
DRILL HOLE LOGS

TRI-CON MINING LTD.
BONNIE PROPERTY

DRILL Winkie
CORE SIZE 1EWS 25mm
LOGGED BY A. Homenuke

DIAMOND DRILL HOLE RECORD HOLE NO. BON-81-1
LOCATION Marwill No. 2 - East boundary
BRG 285° INCL. -45° TOTAL DEPTH 28.7 m (94 ft)
DATE _____ DATE DRILLED 1981

FROM m (ft)	TO m (ft)	REC %	LITHOLOGY	REMARKS	ALTERATION	STRUCTURAL	NOTES
0	4.6 (15)	0	—	casing			
4.6 (15)	11.6 (38)	100	rel. unalt. Tuffac. SS.	med. grey, f-mg.			
11.6 (38)	15.5 (51)	100	alt. tuff. ss.	alt. increas. w/ depth. 12.8 (42) 2 x 1cm qtz veins 70° CA 13. (42.5) 3cm qtz, py 13.7 (45) 2.5cm qtz-sid, py, po			
15.5 (51)	17.4 (57)	100	alt. tuff ss	weakly alt.			
17.4 (57)	19.5 (64)	100	rel unalt tuff. ss.	minor alt along frac.			
19.5 (64)	25.6 (84)	100	alt. tuff ss	increas. alt from 19.5-20.4 (64-67) 20.4-20.6 (67-67.5) qtz, sulf. 50° CA 21.3 (70) 1cm qtz, py } 40° CA 3cm barren qtz } (73, 74, 74.5) qtz 2-5cm 23.5 (77) 2.5cm qtz 90° CA			
25.6 (84)	25.8 (84.5)	100	vein	HW 45° qtz w/ sph Fw brecciated			
25.8 (84.5)	28.7 (94)	100	alt tuff ss	alt decreasing with depth.			

TRI-CON MINING LTD.
BONNIE PROPERTY

DRILL Winkie
CORE SIZE 1EWS 25mm
LOGGED BY A. Homenuke

DIAMOND DRILL HOLE RECORD HOLE NO. BON-85-1
LOCATION Marwill No. 2 50 m WNW of BON-81-1
BRG 263° INCL. -55° TOTAL DEPTH 27.4m (90ft)
DATE _____ DATE DRILLED Aug 18-26/85

FROM	TO	REC	LITHOLOGY	REMARKS	ALTERATION	STRUCTURAL	NOTES
0	10.7 (34)			casing			
10.7 (34)	12.2 (40)	100	rel unalt. tuffac. ss.	med grey fine - med grained, bedding 50° 11.3 (37) qtz, py (4mm) 10° CA 12 (39.5) qtz (5cm) 45° 12.2 (40) qtz, py (2cm) 40° @ 180° to above			
12.2 (40)	18.0 (59)	100	alt. tuff ss	alteration increases with depth 14.3 (47) qtz. stly brecc. (4cm) 60° later faulting on same 15.8 (52) qtz, py (10cm), weakly sheared with py tension gashes 60° 16.2 (53) qtz (1cm) 25° 16.8 (55) qtz (5cm), chl, calc, po on HW sph, cp, asp on FW 35° 17.1 (56) qtz, sid, py, asp (1.5cm) 38° + 60° @ 150° 17.8 (58.5) qtz, po, cp (4mm) 45°			
18.0 (59)	18.9 (62)	100	rel unalt tuff ss	18.4 (60.5) silic, po, cp, asp conf. 50° (1cm)			
18.9 (62)	24.4 (80)	100	alt. tuff ss.	19.5 (64) qtz, py (8mm) 45-60° 19.8 (65) mass. py, qtz, sp, asp (1.5cm) 23.5 (77) qtz, sid (6mm) 55° 25.0 (82) qtz, sid (1cm) 80° 25.6 (84) qtz, sid, py (3cm) 70° from 23.8 (78) mm frac - grey qtz filled few py frac.			
24.4 (80)	27.4 (90)	100	highly altered tuff ss.				
HOLE STOPPED DUE TO SANDING							

TRI-CON MINING LTD.
BONNIE PROPERTY

DRILL Winkie
CORE SIZE 1EWS 25mm
LOGGED BY A. Homenuke

DIAMOND DRILL HOLE RECORD HOLE NO. BON-85-2
LOCATION Marwill No. 2, 90m N of BON-81-1
BRG 300° INCL. -53.5 TOTAL DEPTH 18.3m (60ft)
DATE _____ DATE DRILLED Aug 27 - Sept 4, 1985

FROM	TO	REC	LITHOLOGY	REMARKS	ALTERATION	STRUCTURAL	NOTES
0	6.7 (22)	0		Casing			
6.7 (22)	6.9 (22.5)	80	alt tuff ss	qtz, asp (3-5mm) 2 @ 40° x cutting qtz, ca 5°, fine py frac 50-80°			
6.9 (22.5)	7.2 (23.7)	100	VEIN	Qtz vein, HW 60° FW 45° 11.7cm (.35) qtz 5% asp, sp, ga 7.6cm (.25) Mass. sulf., py, cp, ga, sp, te 18.3cm (.60) qtz, 5% asp, py, tr ga, sph 1cm sid on FW few chl rock frag → FW			
7.2 (23.7)	12.2 (40)	100	alt. tuff. ss	bedding ~ 70° to FW of vein 62° bleached & silicified to 9.1 (30) alt decreases with depth few fine qtz str w/ calc. 8.2 (27) qtz, 10% py (5mm) 15° 9.4, 9.6 (31, 31.5) qtz, py (5mm) 30°, 40°			
12.2 (40)	18.3 (60)	100	rel unalt. tuff ss.	12.5 (41) qtz, py (1cm) 20° 14.9 (49) qtz, 10% py, asp (6.5cm) 55° weakly alt. HW & FW 15.8 (52) qtz, py, asp, (1.5cm) 20° weakly alt ± 30cm 17.7 (58) qtz, py (2-3cm) 6-12/m (2-4/ft) conf to x-cut 2-3mm ↑ qtz str, few talcy sh 20-30°			