

ARIS SUMMARY SHEET

District Geologist, Smithers

Off Confidential: 89.06.02

ASSESSMENT REPORT 17658

MINING DIVISION: Omineca

PROPERTY: American Boy  
LOCATION: LAT 55 18 54 LONG 127 34 41  
UTM 09 6130551 590245  
NTS 093M05E

CLAIM(S): AB 1, Cindy Lou

OPERATOR(S): Can-Ex Res.

AUTHOR(S): Homenuke, A.

REPORT YEAR: 1988, 14 Pages

COMMODITIES

SEARCHED FOR: Silver, Gold, Copper, Lead, Zinc

GEOLOGICAL

SUMMARY: Quartz veins with galena, chalcopryrite, sphalerite, tetrahedrite and arsenopyrite (gold) occur in Lower Cretaceous Bowser Lake Group sandstone and argillite.

WORK

DONE: Drilling  
DIAD 44.2 m 3 hole(s);EX

RELATED

REPORTS: 06789, 08847, 10457, 11165, 12665, 15124, 15393, 16324

MINFILE: 093M 047

LOG NO: 0819	RD.
ACTION:	
FILE NO:	

**DIAMOND DRILLING**

**FILMED**

**ON THE**

**AMERICAN BOY PROPERTY**

(Cindy Lou, Janelle, AB#1-AB#8, AB#13-21, 23, 24,  
Roosevelt Recovery, Silver Bell,  
Cassiar Swift Water, Cassiar Clear Water, Lucky Jim  
Bunker Hill, FN fr., Mohawk)

Omineca Mining Division

93M / 5E, 6W

55° 18' 127° 34'

**OWNER & OPERATOR:** Can-Ex Resources Ltd.  
**AUTHOR:** A.M. Homenuke, P. Eng. (Geol.)  
**SUBMITTED:** August 10, 1988

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**17,658**

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## I. INTRODUCTORY NOTES

### Location and Access

The American Boy Property is located a few kilometres north of New Hazelton, B.C. (Fig. 1). The claims cover the west to southwest slope of Nine Mile Mountain down to Four Mile Mountain and are bounded on the west by Two Mile Creek Valley.

Two historically active mining sites are present: the "American Boy" workings on the north part of the claims and the "Babine and Mohawk" workings on the southcentral part of the claims.

Access on the west and north is provided by the Nine Mile Mountain microwave road, maintained by B.C. Tel, and on the south by Four Mile Mountain Road.

Locally, there are many old mining and logging trails, except in the central portion of the property where access is on foot or by helicopter.

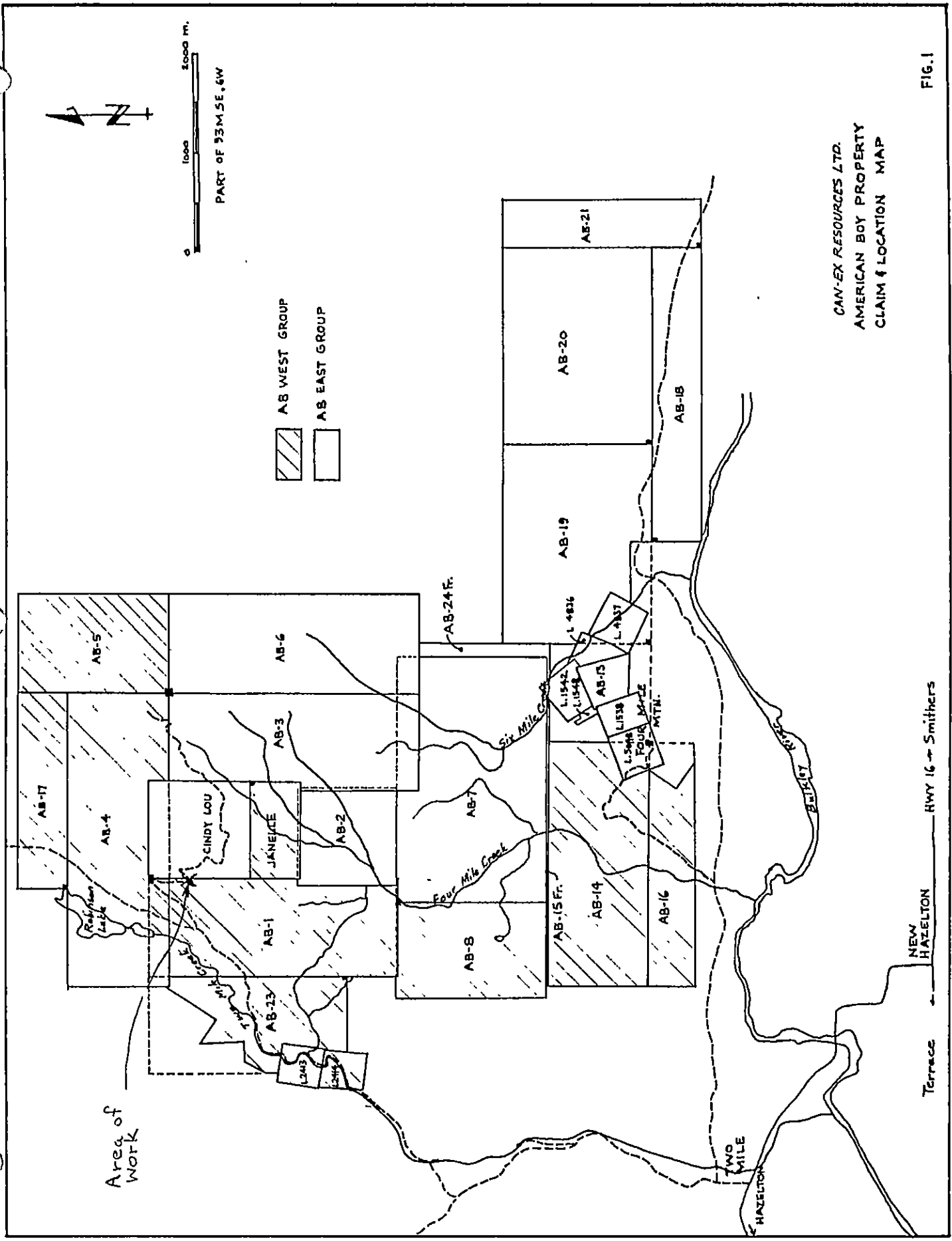
### Physical Features

The area of the claims is characterized by very steep southerly to westerly slopes, in many cases, to the point of forming escarpments. There is a broad, flatter area to the southwest. Two major creeks flow in a general southerly direction across the property, in part through steep-walled canyons.

The area is heavily forested, ranging from interior rain forest, through open spruce groves to subalpine vegetation. The type of vegetation is controlled by topography and elevation. There are a few open, grassy slopes with deciduous trees, and many swampy areas. Much of the timber is over mature and windfalls often impede progress.

### History

The first miners came into the Hazelton area with completion of the railway through that town. The American Boy Property was first staked by D.A. Harris in 1910. From 1911 to 1916, Harris Mines Limited carried out surface trenching and underground development of five veins. Small shipments of high-grade silver ore were made to the Trail Smelter.



CAN-EX RESOURCES LTD.  
 AMERICAN BOY PROPERTY  
 CLAIM & LOCATION MAP

FIG. 1

In 1917, 254 tons of lower-grade development ore were hauled to the Silver Standard gravity mill on Two Mile Creek.

In 1927, further minor development work was done and G.S.C. Memoir 223 mentions "some work done during 1937", but no details were given.

American Standard Mines acquired the property in 1950 and did considerable stripping, diamond drilling and underground work. A new vein (No. 6) was discovered in the fall of 1951.

In 1952, Pioneer Gold Mines of B.C. Limited did some further surface stripping.

In 1955, J. Gallo shipped 21 tons of crude ore from a shoot on the No. 6 vein. Apparently, other operators did some work on the property in the late 1950's, but no records are available.

George Braun re-staked the property in 1967, and the Northwestern Midland Development Co. Ltd. shipped 10.35 tons of Wilfley Table concentrate, stockpiled by previous operators. Minor trenching was done in 1968 and 1971.

Tri-Con Mining Ltd. re-staked the property in 1976, and in 1978 and 1980 carried out backhoe trenching, sampling and limited electromagnetic surveying.

In 1981, the property was expanded. During staking and prospecting, one new vein was found, an old vein was "rediscovered", and mineralized float from a probable third vein was found. In addition, reconnaissance soil sampling was done on many of the claim lines.

In 1982, the property was vended to Can-Ex Resources Ltd. Additional claims were staked covering the old "Babine" property and Mohawk Group was optioned from Cumo Resources. A major program of geochemical and geophysical surveying, mapping, sampling, diamond drilling and trenching was completed by the end of 1984.

Follow-up geochemistry, geophysics, trenching and diamond drilling have been continued since 1984.

### Property Description

The property consists of a total of 154 units. Table I lists the pertinent data from the claims. Table II shows the grouping of the claims for assessment purposes. Can-Ex Resources Ltd. is owner and operator of the property. The claims are shown on Figure 1.

TABLE I  
MINERAL CLAIMS

<u>NAME</u>	<u>UNITS</u>	<u>RECORD #</u>	<u>LOT #</u>	<u>YEAR RECORD</u>	
				<u>LOCATED</u>	<u>DATE</u>
Cindy Lou	4	320	-	1976	June 8
Janelle	2	319	-	1976	June 8
AB-1	10	3785	-	1981	June 4
AB-2	4	3786	-	1981	June 4
AB-3	10	3787	-	1981	June 4
AB-4	12	3788	-	1981	June 4
AB-5	6	4116	-	1981	June 4
AB-6	10	4117	-	1981	Aug. 6
AB-7	15	4118	-	1981	Aug. 6
AB-8	6	4119	-	1981	Aug. 6
AB-13	4	4871	-	1981	Nov. 4
AB-14	10	5694	-	1983	Aug. 19
AB-15 Fr.	1	5695	-	1983	Aug. 19
AB-16	5	5696	-	1983	Aug. 19
AB-17	4	5697	-	1983	Aug. 19
AB-18	6	5698	-	1983	Aug. 19
AB-19	12	5699	-	1983	Aug. 19
AB-20	12	5700	-	1983	Aug. 19
AB-21	4	5701	-	1983	Aug. 19
AB-23	8	5703	-	1983	Aug. 19
AB-24 Fr.	1	5704	-	1983	Aug. 19
Roosevelt Recovery	1	5897	4837	1983	Oct. 19
Silver Bell	1	4952	4836	1983	Dec. 31
Cassiar Swift Water	1	5692	2413	1983	Aug. 19
Cassiar Clear Water	1	5693	2414	1983	Aug. 19
Lucky Jim	1	240	1538	1976	Mar. 10
Bunker Hill	1	241	1542	1976	Mar. 10
FN Fr.	1	242	1548	1976	Mar. 10
Mohawk	1	243	5048	1976	Mar. 10

TABLE II  
CLAIM GROUPING

<u>AB WEST GROUP</u>	<u>AB EAST GROUP</u>
Janelle AB-1, 4, 5, 8, 15 Fr., 16, 17, 23 Cassiar Swift Water Cassiar Clear Water	Cindy Lou AB-2, 3, 6, 7, 13, 18-21, 24 Fr. Silver Bell Roosevelt Recovery Lucky Jim Bunker Hill FN Fr. Mohawk

Economic Assessment

There are at least 15 silver-gold-base metal bearing veins on the property. A few small, but very high grade ore shoots were previously mined. The Silver Standard mine, just to the west of the American Boy, produced over 7 million ounces of silver, and the Sunrise Silver Mine on Nine Mile Mountain, and the Mohawk Mine on Four Mile Mountain also had some production.

Reconnaissance geochemistry has shown many more target areas, increasing the probability of putting together enough ore shoots to make a mine.

Present Work and Distribution

Three holes were drilled, one of 18.3 m on the AB-1 claim and two totalling 25.9 m on the Cindy Lou claim.

II. DIAMOND DRILLING

Three holes, totalling 44.2 m, were drilled to test mineralized portions of the No. 7 vein. The holes were drilled with a JKS Winkie producing a 25 mm core.

The vein is located along the switchback access road on the steep west slope of Nine Mile Mountain. The steepness of the slope has led to a large number of openings in the near surface rock. This caused a great deal of difficulty in drilling the short holes, which had to be cased a considerable depth into bedrock, a time-consuming process with a small drill. A plan and cross sections of the drill holes are shown on Fig. 2.



## DRILL HOLE LOGS

AB-88-1 BRG. 140° DIP -45°

Depth (m)

Comments

### LITHOLOGY

- 0-2.1 no recovery, cased to 7.3  
2.1-7.3 Sandstone, med. grey, med. grnd., badly broken, argillite fragments.  
7.3-8.5 Sandstone, more competent, argillaceous partings, beds 45° C.A.  
8.5-10.7 Argillite, dark grey, minor ss interlam., minor diagenetic py.  
10.7-18.3 Sandstone, med. - coarse grnd.

### STRUCTURE

- 6.7, 7.0 Qtz. tension fillings, 0.5 cm, perp. to beds, 45° C.A.  
7.9-8.5 Qtz. stringer zone, tr. py., 30° - 40° C.A., perp. to beds  
10.4 Crackle breccia, qtz. - limon filled, tr. py. 2 cm.  
11.0 Qtz., 1 cm., 40° C.A.  
11.6 Qtz., 0.5 cm, 40° C.A.  
12.2 Qtz., w/talc, sid., adul?, irreg patch 0 -60° C.A.  
12.3-12.5 Qtz. stringer zone, 7 str., w/sid., 50°-60° C.A. rot. 90° to above  
12.8-13.0 Vein, 10 cm. qtz-sid, 3 cm ss, 8 cm. qtz. -sid.-chlor, replacement and fill text., limon clots after sulf., 45° C.A. parallel to above  
14.6 Qtz. 2 cm, 45° C.A., followed by fine qtz. str.  
16.9-17.2 Qtz. vein w/10 cm. alt. rock in center., 50° C.A., minor sid., limon.

AB-88-2F BRG. 140° DIP -45°

### LITHOLOGY

- 0-2.4 no recovery, cased to 6.7  
2.4-10.7 Argillaceous siltstone grading to silty argillite wavy interlamations of siltstone ripples surrounded by argillite beds. 45° C.A., few fine calcite stringers 0-20° C.A.

### STRUCTURE

- 3.6-6.4 Badly broken, 0.6 m recov., drillers comment-open, muddy  
6.0 (approx.) few qtz. frags.

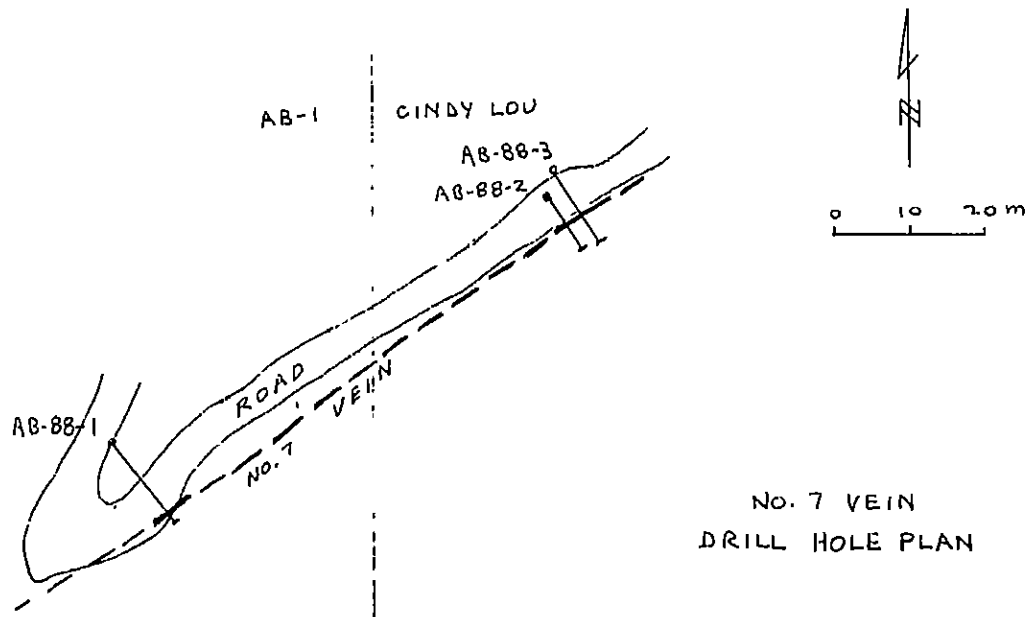
AB-88-3 BRG. 140° DIP -45°

LITHOLOGY

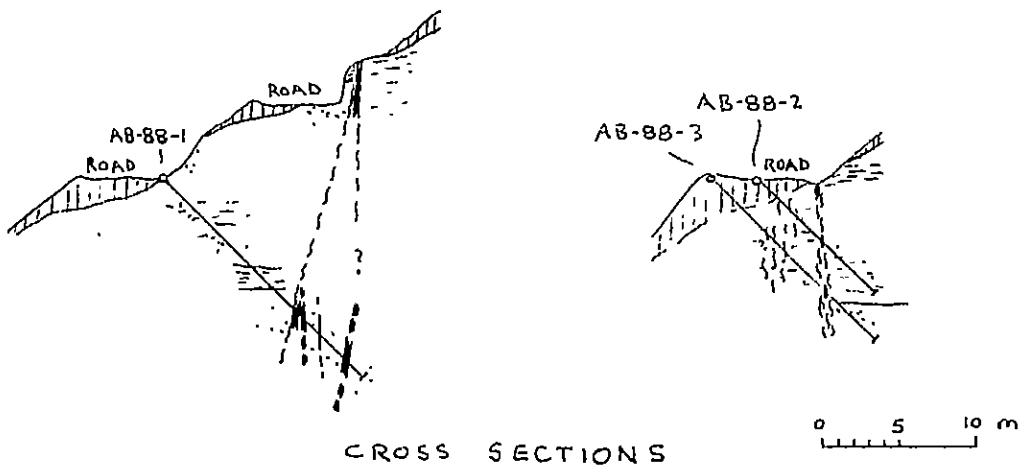
- 0-4.6 no recovery, cased to 6.1  
4.6-5.5 Sandstone, lt. grey, fine ground., finely lam.  
5.5-11.6 Argillaceous siltstone grading to argillite,  
beds 50° C.A.  
11.6-15.2 Sandstone, med - coarse ground., few arg. part to thin  
beds, 55° C.A.  
few fine calcite stringers

STRUCTURE

- 10.0-11.6 Fault zone  
11.0 (appox.) Qtz. w/limon. frags., mud.



Note. core is temporarily stored in ~~smelters~~ at the drill sites.



- ||||| overburden
- ∴ sandstone
- ≡≡ argillite
- ≡≡ fault
- ≡≡ quartz vein
- contact

AMERICAN BOY PROPERTY

NO. 7 VEIN

Prepared by A. M. Homenuke PENG Aug 88  
TRI-CON MINING LTD FIG. 2

### DISCUSSION OF RESULTS

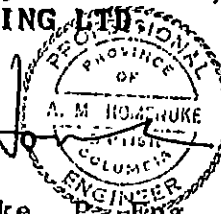
Recovery was poor in the start of the holes, complicating interpretation of faulting and lithology. AB-88-1 was drilled under an exposure of the No. 7 Vein containing abundant quartz with patches of chalcopyrite, tetrahedrite and galena. On surface the veining was contained in a limonitic gouge zone about 0.5 m wide. In the drill hole a series of 2-20 cm quartz veins were intersected over a 5 m interval. No significant gouge was intersected, however, broken rock and poor recovery above the veins may indicate faulting. Accessory minerals included siderite, chlorite, talc, limonite and possibly adularia, but no sulfide minerals were noted. The width of the vein system at this point suggests that further drilling is warranted, downdip and along strike. That the veins were intersected in sandstone is encouraging as it is structurally more favorable than argillite.

AB-88-2 had very poor recovery, so AB-88-3 was drilled to try to intersect the vein a little deeper. On surface at this point, the No. 7 vein was 30 cm wide with 10 cm of massive sulfide assaying in excess of 100 oz. silver per ton. Both holes recovered only a few quartz fragments at the expected intercept and recovery was very poor, suggesting considerable faulting parallel to the vein. The drilling at this location was inconclusive.

### III. CONCLUSIONS

Shallow drilling with a small drill on the steep westerly slope which contains the No. 7 vein was difficult due to poor recoveries. While some of the drilling was inconclusive, Hole AB-88-1 indicated that the surface exposures are probably part of a more complex vein system. Additional surface investigation is probably warranted prior to deeper drilling. A larger drill should be used in the future, with close attention paid to core recovery.

Respectfully Submitted,  
TRI-CON MINING LTD

AQ H  


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

**COST STATEMENT**

May 17 to May 22, 1988

Diamond Drilling 44.2 with Winkie drill contractors invoice (cost plus)	4800.00
A.Homenuke, P. Eng. 2 days field, 1 day report 3 days at \$400	1200.00
Vehicle 2 day at \$75	150.00
Travel Vancouver - Smithers return (portion - more than one project)	250.00
Room & Board 2 days at \$40	80.00
Maps, secretarial, copying	<u>100.00</u>
	6580.00

The drilling was done on a cost plus basis, and approximately equal time was spent on the AB-1 and Cindy Lou claims.

AB West Group \$3290.00

AB East Group \$3290.00

**REFERENCES**


Homenuke, A.M., 1978 - 1987, Various assessment reports.

**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 19 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, B.C.
6. THAT this Report is based on work supervised or conducted by myself.

DATED AT VANCOUVER, British Columbia, this 10th day of August, 1988.

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