

GEOCHEMICAL SURVEY

ON THE

AMERICAN BOY PROPERTY

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

Omineca Mining Division

93M / 5E

55°^{20'}_{19'} 127°34.5'

FILMED

OWNER & OPERATOR: Can-Ex Resources Ltd.

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

SUBMITTED: July 25, 1986

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

15,124

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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. Three 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 on foot.

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.

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 the 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. Minor local soil surveying has been done since then for assessment purposes.

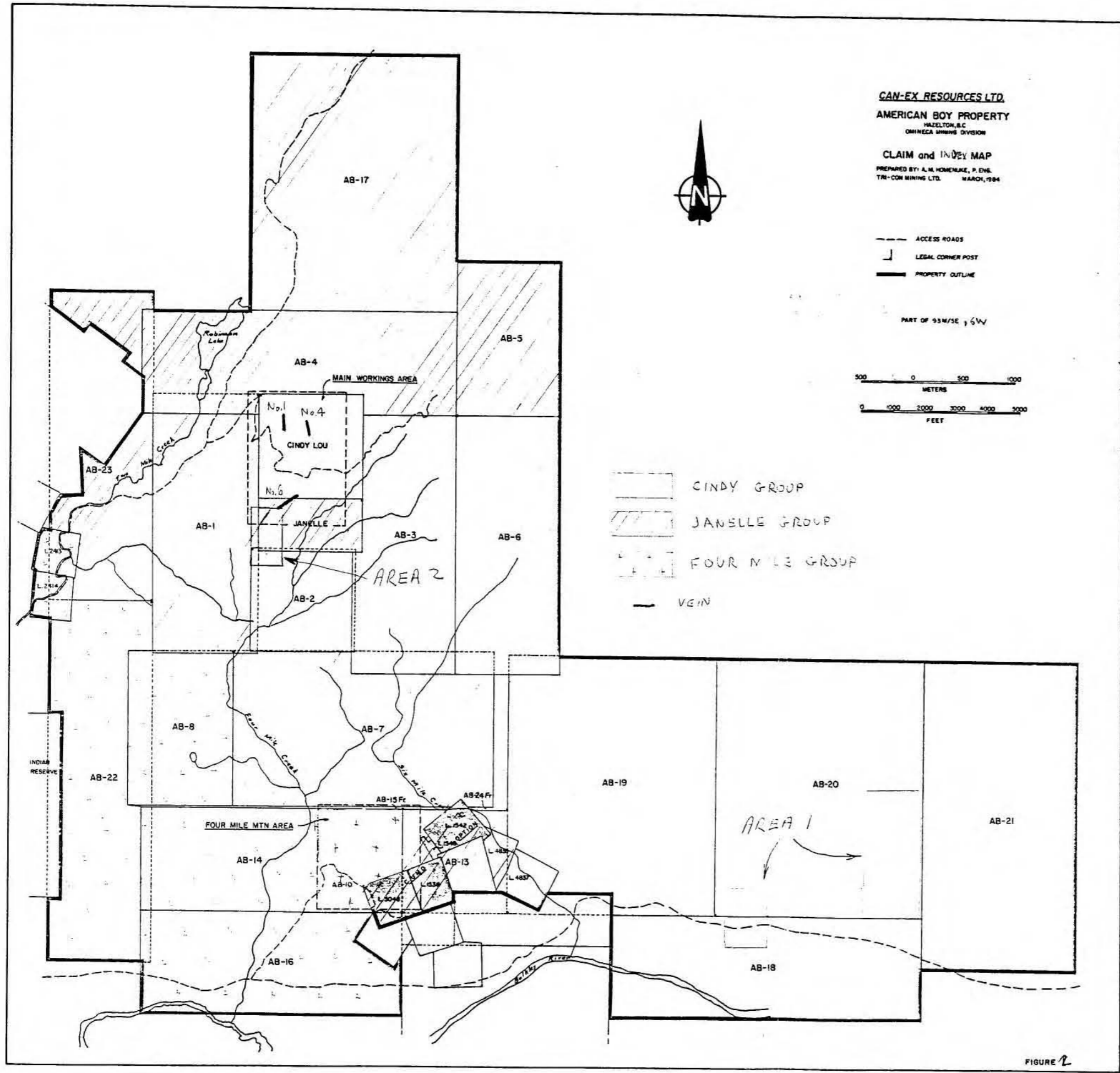


FIGURE 2

Property Description

The original 6 units, located in 1976, have been expanded to a total of 229 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 2.

TABLE I
MINERAL CLAIMS

<u>NAME</u>	<u>UNITS</u>	<u>RECORD #</u>	<u>LOT #</u>	<u>YEAR</u>	<u>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	Aug. 6
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	10	5696	-	1983	Aug. 19
AB-17	20	5697	-	1983	Aug. 19
AB-18	12	5698	-	1983	Aug. 19
AB-19	20	5699	-	1983	Aug. 19
AB-20	20	5700	-	1983	Aug. 19
AB-21	18	5701	-	1983	Aug. 19
AB-22	14	5702	-	1983	Aug. 19
AB-23	12	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	1982	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>CINDY GROUP</u>	<u>JANELLE GROUP</u>	<u>FOUR MILE GROUP</u>
Cindy Lou	Janelle	AB-8
AB-2	AB-1	AB-14
AB-3	AB-4	AB-16
AB-6	AB-5	AB-22
AB-18	AB-7	Cassiar Swift Water
AB-19	AB-13	Cassiar Clear Water
AB-20	AB-15 Fr.	(42 units)
AB-21	AB-17	
(98 units)	AB-23	
	AB-24 Fr.	
	Silver Bell	
	Roosevelt Recovery	
	Lucky Jim	
	Bunker Hill	
	FN Fr.	
	Mohawk	
	(89 units)	

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. *The claims are situated in an area of lower Cretaceous Bowser Lake group of sedimentary rocks that are cut by shale plugs and quartz veins.* 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

This report covers followup geochemical surveys on two areas of the property. The first, consisting of 112 samples, was done in the AB-20 claim as a followup to a weak trend on line with known silver mineralization on an adjoining property. The second, consisting of 245 samples, was done over portions of Janelle, AB-1 and AB-2 as an extension of previous surveys on the No. 6 Vein area.

II. GEOCHEMICAL SURVEYS

Procedure

Experience has shown that the Ah soil horizon is more effective than the B horizon in defining mineralized trends in areas of thin but varying glacial till overburden. This horizon was selected for sampling in both the areas covered in this report.

The samples were placed into kraft envelopes and marked as to location. The samples were delivered to Acme Labs in Vancouver, B.C., where they were subjected to the following procedures:

1. Preparation - dried at 60°C, pulverized if necessary, and sieved to -80 mesh.
2. Digestion - 0.5 grams of sample digested with hot aqua regia for one hour, then diluted to 10 ml. with water.

3. Analysis - Solution aspirated and analyzed by inductively coupled argon plasma (ICP). This is a computer assisted, multi-element spectral analysis: 30 elements were available, but to save on costs only lead, zinc, silver, arsenic and copper were selected.

Area 1 (AB-20 Claim)

114 samples were taken on 50 x 100 metre grids on the southwest and eastern portion of the claim. High values of arsenic, copper, lead, silver and zinc were contoured to show trends of possibly mineralized sources. The results are shown on Fig. 3-7.

Area 2 (No. 6 Vein Area)

245 samples were taken on a 25 x 50 metre grid extending a previous survey to the southwest. High values of arsenic, copper, lead, silver and zinc were contoured to show trends of possibly mineralized sources. Values from a portion of the previous survey are also included with the results shown on Fig. 8-12.

DISCUSSION OF RESULTS

Area 1

Strong ENE trends in zinc were the most evident result of the survey. Weaker trends for copper and lead are also present and partially coincident with the zinc. Arsenic and silver response was very weak.

Area 2

A number of strong southwesterly trending anomalies indicate extensions of the No. 6 Vein and probable parallel veins. The anomaly pattern also indicates possible north trending veins and northwest trending offsetting faults. Zinc and silver provides the most prominent patterns while arsenic, copper and lead are weaker but still definitive.

III. CONCLUSIONS

The results from the No. 6 Vein Area are adequate to provide trenching targets. Anomalous trends indicate continuity beyond the grid to the southwest and there is another anomalous area just appearing on the northwest corner of the grid. If mineralization is found by trenching on the current anomalies then similar surveys should be done to extend the area of coverage.

COST STATEMENT

Oct. 11-15, 1985; May 20-27, 1986

Party Chief	10 days @ \$200 / day	2,000
Helper	10 days @ \$150 / day	1,500
Analysis	357 samples for 5 elements @ \$4.75	1,696
Vehicle	10 days @ \$65	650
Room & Board	20 man days @ \$40	800
A.M. Homenuke, P. Eng.	Maps interpretation and report 2 days @ \$400	800
Secretarial, copying, miscellaneous		<u>150</u>
	TOTAL	\$7,596
Cindy Group	172 / 357 samples	\$3,660
Janelle Group	185 / 357 samples	\$3,936

R E F E R E N C E S


- Homenuke, A.M., 1978, Trenching and Assay Report on the American Boy Group (Ass. Rept.)
- Homenuke, A.M., 1981, EM-16 and trenching on the American Boy Group (As. Rept.).
- Homenuke, A.M., 1982, Geochemical Survey and Prospecting on the American Boy Property (Ass. Rept.).
- Homenuke, A.M., 1983, Geochemical and Geophysical Survey on the American Boy Property (Ass. Rept.)
- Homenuke, A.M., 1984, Geology, Geochemistry and Diamond Drilling on the American Boy Property (Ass. Rept.).
- Kindle, E.D., 1954, Mineral Resources, Hazelton & Smithers areas, Geol. Sur. of Can., Memoir 223.
- Smith, Alexander, 1956, Silver Standard Mine, in Structural Geology of Canadian Ore Deposits, CIM Special Volume

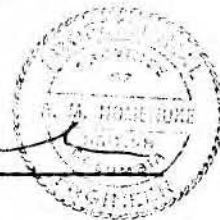
CERTIFICATE OF QUALIFICATION

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 17 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 22nd day of July, 1986.


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



A P P E N D I X
GEOCHEMICAL MAPS

0.12 Soil sample location & value (ppm)

Contour intervals
ppm

 10
 4

0 100 200 m.



8N	0.6	0.2	0.5	0.2	0
	0.4	0.3	0.2	0.2	0
7N	0.10	0.2	0.2	0.2	0
	0.2	0.2	0.2	0.2	0
6N	0.23	0.2	0.2	0.2	0
	0.3	0.6	0.4	0.2	0
5N	0.4	0.2	0.2	0.2	0
	67E	68E	69E	70E	

71E - 72E - 73E - 74E - 75E - 76E - 77E - 78E -


6	3	2	2	16N
2	2	2	2	
2	2	2	2	15N
2	3	2	2	
4	2	2	0	14N
2	2	2	2	
2	2	2	2	13N
2	2	2	2	
2	3	6	2	12N
2	2	2	2	
2	2	2	2	11N
3	2	2	2	
2	2	2	2	10N
2	3	4	2	
2	4	2	4	9N
2	2	2	2	
2	2	2	2	8N
2	2	2	2	
2	2	10	2	7N
2	2	9	2	
2	2	2	4	6N
79E	80E	81E	82E	

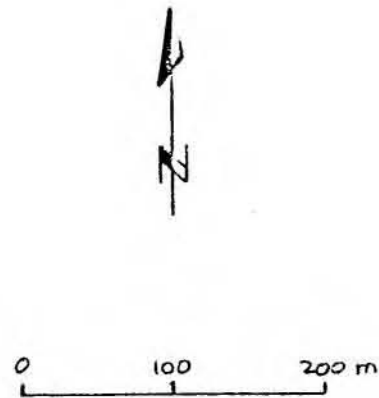
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ASSESSMENT REPORT

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AMERICAN BOY PROPERTY
AREA E OF SIX MILE CREEK
GEOCHEMICAL SURVEY
(ORGANIC)
ARSENIC

0.12 Soil sample location & value (ppm)

Contour intervals
ppm

 40
 20



8N	0.10	0.20	0.19	0.28	0
	0.39	0.16	0.10	0.9	0
7N	0.51	0.14	0.12	0.9	0
	0.7	0.17	0.17	0.13	0
6N	0.29	0.11	0.13	0.9	0
	0.11	0.11	0.11	0.10	0
5N	0.11	0.11	0.8	0.8	0
	67E	68E	69E	70E	

71E - 72E - 73E - 74E - 75E - 76E - 77E - 78E -

33	15	12	9	16N	
13	35	13	11		
11	19	19	13	15N	
12	14	29	15		
25	20	21	0	14N	
28	16	14	13		
20	24	11	29	13N	
33	14	14			
20	25	20	14	12N	
16	16	14	16		
18	31	17	19	11N	
24	25	15	16		
17	22	15	12	10N	
12	23	15	17		
15	75	12	57	9N	
14	14	13	30		
14	43	14	12	13	8N
31	14	15	17		
38	14	39	10	7N	
21	11	34	10		
14	15	15	20	6N	
79E	80E	81E	82E		

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ASSESSMENT REPORT

15,124

CAN-EX RESOURCES LTD.
AMERICAN BOY PROPERTY
AREA E of SIX MILE CREEK
GEOCHEMICAL SURVEY
(ORGANIC)
COPPER

JAN. 1986

FIG. 4

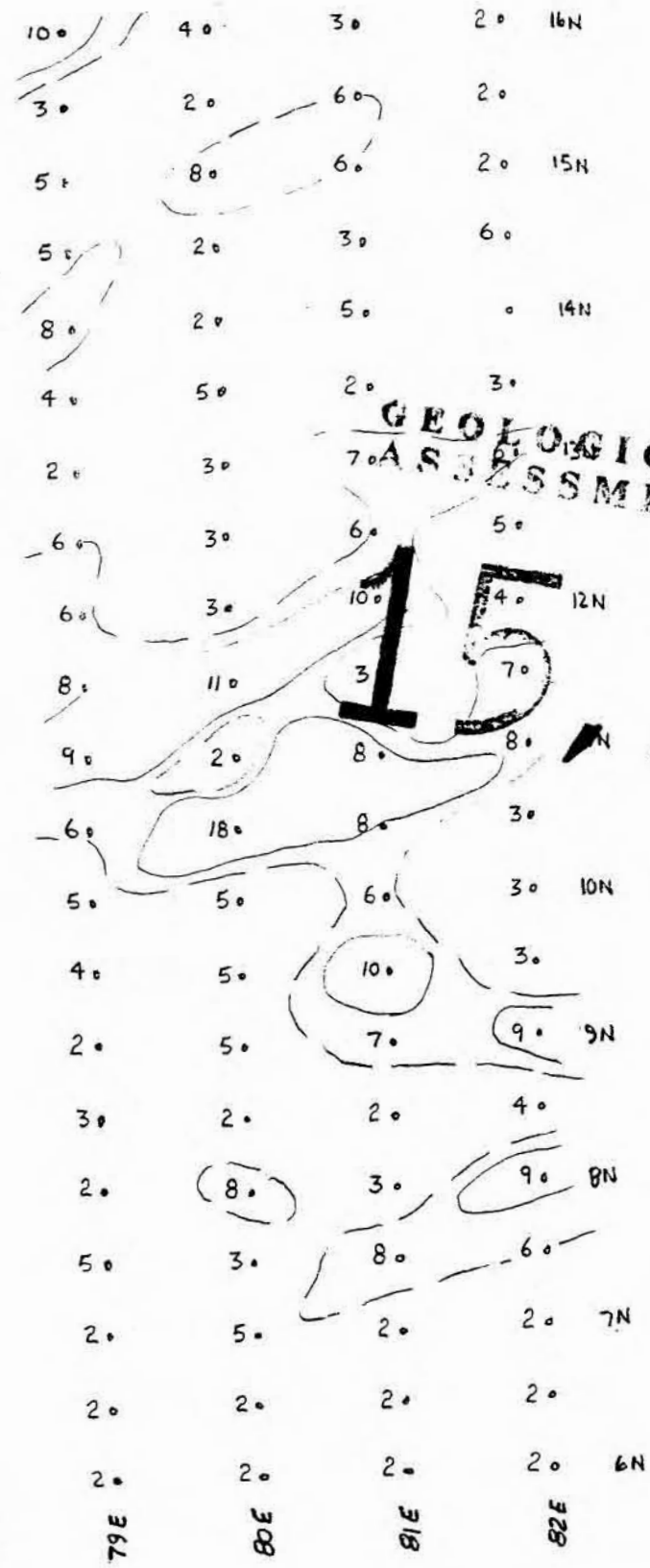
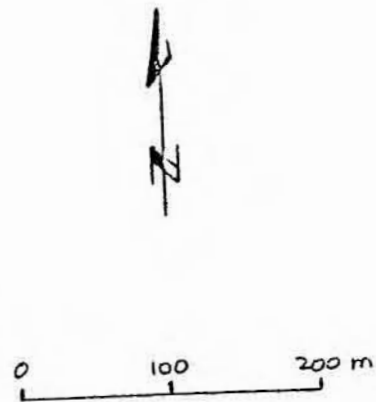
012 Soil sample location & value (ppm)

Contour intervals
ppm

— 8
— 6

8N	0.6	0.5 / 0.7	0.2	0
	0.6	0.8 / 0.3	0.2	0
7N	0.9	0.2 / 0.3	0.8	0
	0.2	0.5 / 0.8	0.2	0
6N	0.3	0.5 / 0.2	0.3	0
	0.10	0.3 / 0.5	0.7	0
5N	0.7	0.7 / 0.3	0.4	0
	67E	68E	69E	70E

71E - 72E - 73E - 74E - 75E - 76E - 77E - 78E -



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AMERICAN BOY PROPERTY
AREA E of SIX MILE CREEK
GEOCHEMICAL SURVEY
(ORGANIC)
LEAD

JAN. 1986

FIG. 5

o 12 Soil sample location & value (ppm)

Contour intervals
ppm

— 1.0
— 0.5

0 100 200 m



8N	0.1	0.1	0.1	0.1	0
	0.3	0.1	0.2	0.1	0
7N	0.2	0.1	0.2	0.1	0
	0.1	0.1	0.2	0.1	0
6N	0.1	0.1	0.2	0.1	0
	0.1	0.1	0.1	0.2	0
5N	0.2	0.1	0.1	0.1	0
	67E	68E	69E	70E	

71E -

72E -

73E -

74E -

75E -

76E -

77E -

78E -

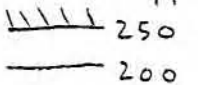
.20	.30	.50	.20	16N
.10	.50	.50	.40	
.10	.30	.50	.10	15N
.10	.30	.70	.20	
.10	.20	.10	0	14N
.40	.30	.10	.10	
.20	.40	.10		
.30	.50			
.20	.40	.20	.10	
.10	.30	.10		
.30	.40	.20	.20	11N
.60	.40	.40	.30	
.10	.40	.10	.20	10N
.40	.50	.30	.30	
.10	.90	.30	.90	9N
.30	.20	.30	.50	
.40	.40	.10	.10	8N
.10	.40	.10	.10	
.10	.30	.40	.30	7N
.20	.40	.50	.10	
.20	.30	.10	.10	6N
	79E	80E	81E	82E

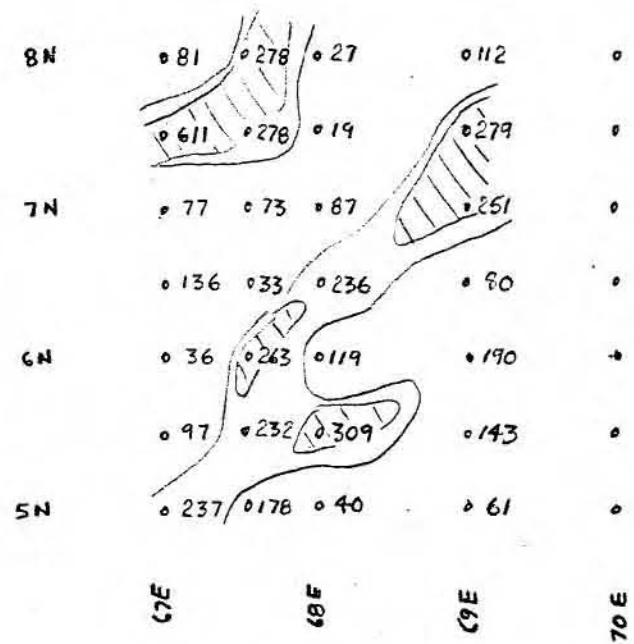
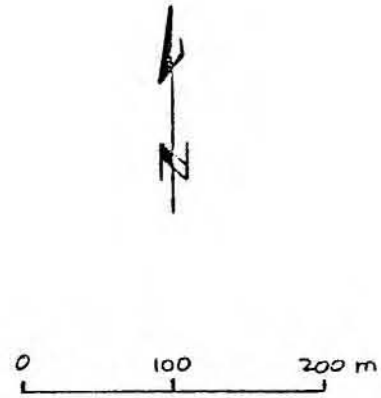
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AMERICAN BOY PROPERTY
AREA E of SIX MILE CREEK
GEOCHEMICAL SURVEY
(ORGANIC)
SILVER

0 12 Soil sample location & value (ppm)

Contour intervals
ppm

 250
 200



71E -

72E -

73E -

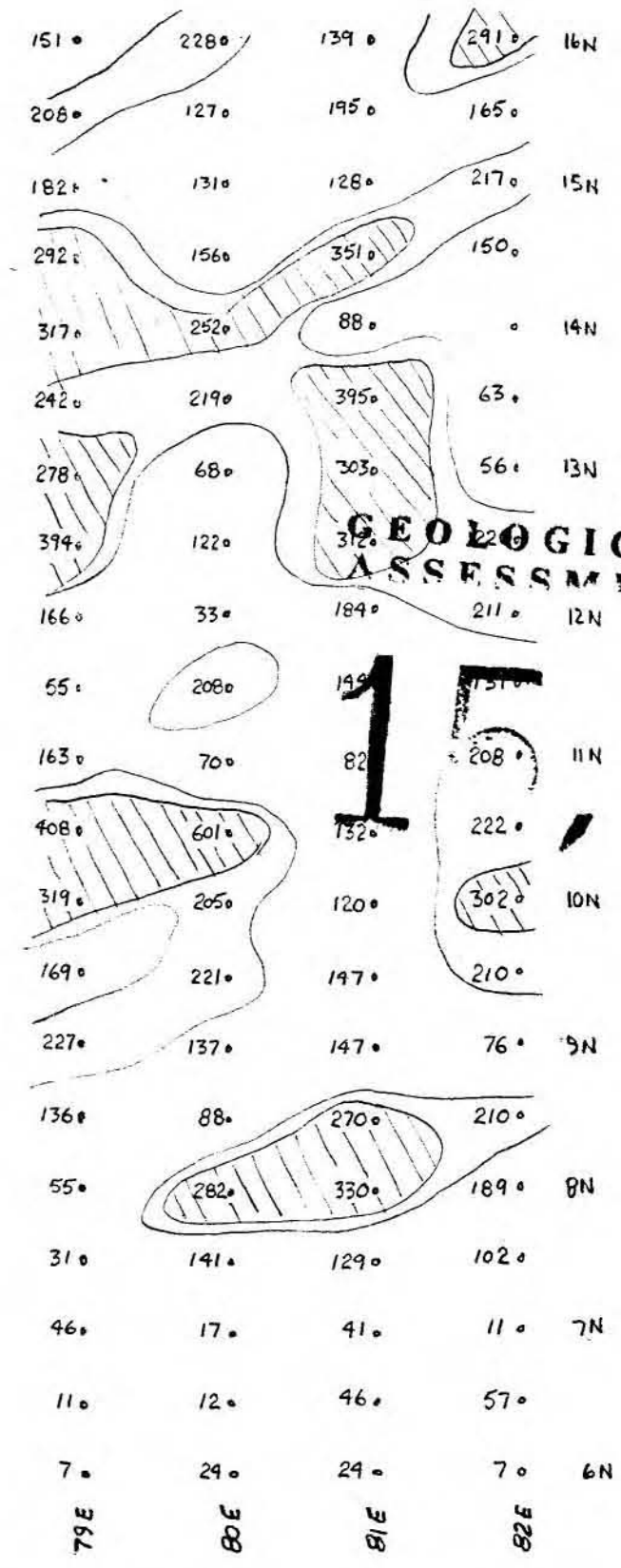
74E -

75E -

76E -

77E -

78E -



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CAN-EX RESOURCES LTD.
AMERICAN BOY PROPERTY
AREA E of SIX MILE CREEK
GEOCHEMICAL SURVEY
(ORGANIC)
ZINC

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