86-720 - 15393

COT SI 1986

### **1986 EXPLORATION PROGRAM**

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°**28**, 127°34.3' 19.1

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1)

OWNER & OPERATOR: Can-Ex Resources Ltd.

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

SUBMITTED: October 30, 1986

# GEOLOGICAL BRANCH ASSESSMENT REPORT



VANCOUVER, B.C. CANADA

## CONTENTS

Ι.	INTRODUCTORY NOTES Location and Access Physical Features History Property Description Economic Assessment Present Work and Distribution	1 1 3 5 7 8
II.	DIAMOND DRILLING No. 1 Vein No. 6 Vein	8 9 9
III.	TRENCHING AND MAPPING	9
IV.	ELECTROMAGNETIC SURVEYS Instrumentation and Procedure Discussion of Results No. 6 Vein Area Four Mile Creek Area	13 13 17
۷.	GEOCHEMICAL SURVEY (FOUR MILE CREEK AREA) Procedure Discussion of Results	14 17
VI	CONCLUSIONS Main Workings Four Mile Creek Area	23 23
	COST STATEMENT	24
	REFERENCES	26
	CERTIFICATE	27
	APPENDIX I DRILL HOLE LOGS	
	APPENDIX II VLF-EM SURVEYS - RAW DATA PROF	ILES
FIG. 1 2 3 4 5 6 7 8 9 10 11 12	Location Map Claim and Index Map No. 1 Vein Area No. 6 Vein Area No. 6 Vein Area - Drill hole cross section No. 6 Vein Area - VLF-EM Survey Four Mile Creek Area - VLF-EM Survey Geochemical Survey - Arsenic Geochemical Survey - Copper Geochemical Survey - Lead Geochemical Survey - Silver Geochemical Survey - Zinc	2 6 10 11 12 15 16 18 19 20 21 22

#### 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.

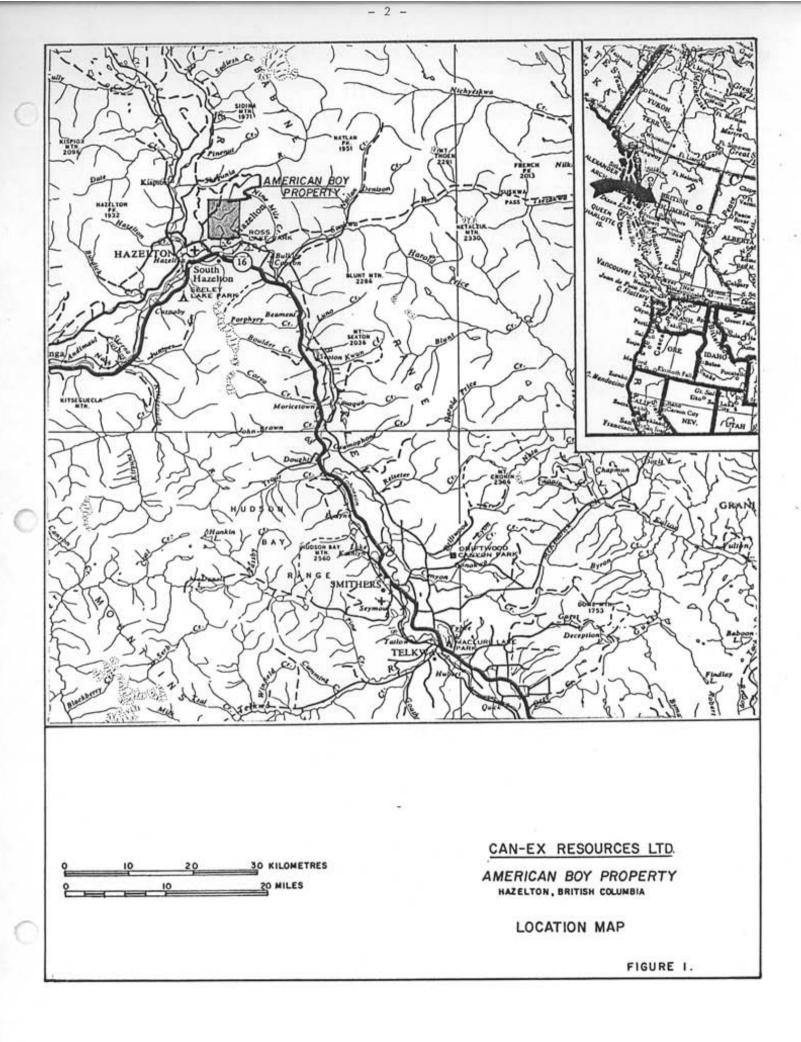
Two historically active mining sites are present: the "American Boy" workings on the north part of the claims and the "Babine and Mohawk" workings on the southcentral part of the claims.

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 and a more detailled survey earlier this year have been done for assessment purposes.

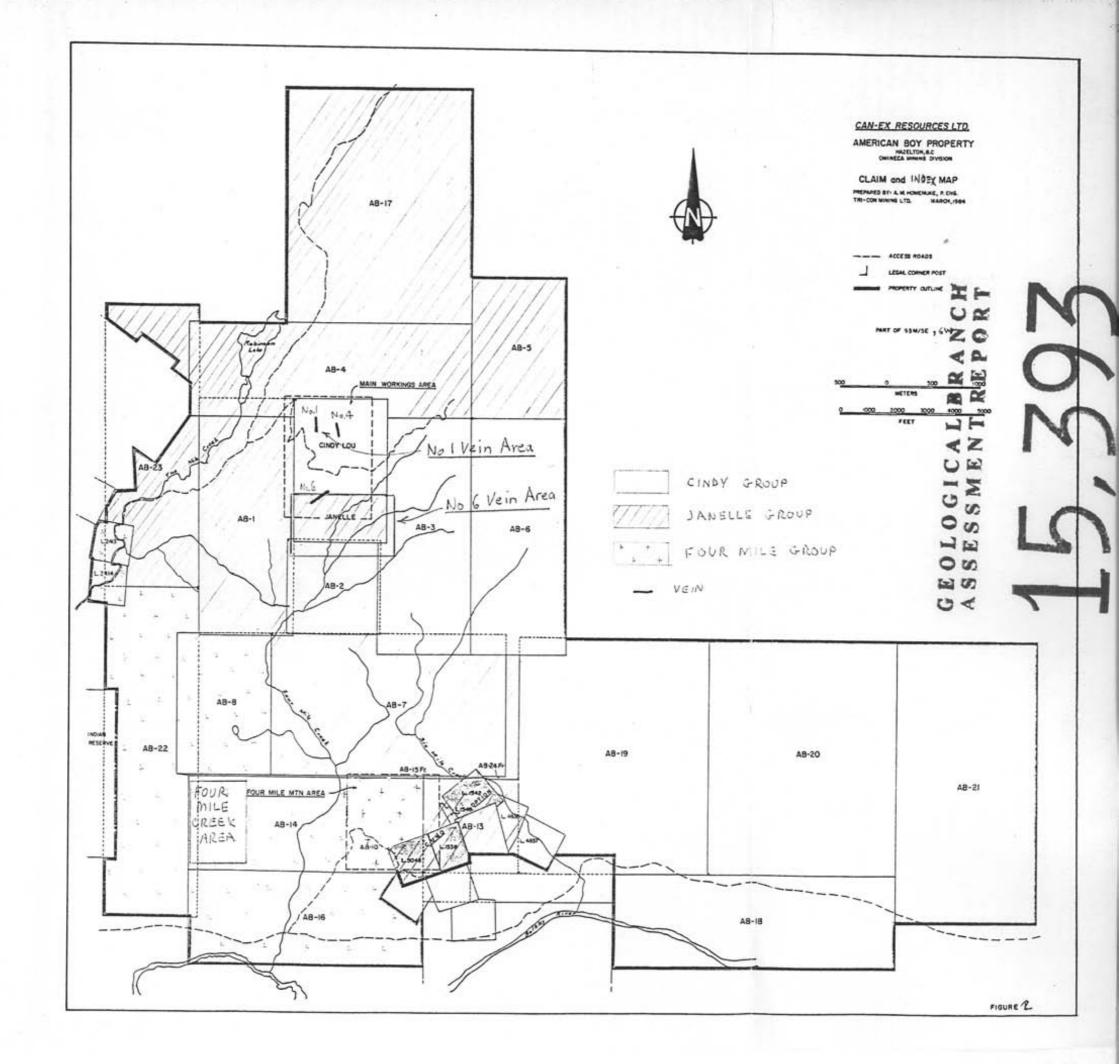
-4-

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

				YEAR	RECORD
NAME	UNITS	RECORD #	LOT #	LOCATED	DATE
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
AB5	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

CINDY GROUP	JANELLE GROUP	FOUR MILE GROUP
Cindy Lou AB-2 AB-3 AB-6 AB-18	Janelle AB-1 AB-4 AB-5 AB-7	AB-8 AB-14 AB-16 AB-22 Cassiar Swift Water
AB-19	AB-13	Cassiar Clear Water
AB-20 AB-21 (98 units)	AB-15 Fr. AB-17 AB-23 AB-24 Fr. Silver Bell Roosevelt Recovery Lucky Jim Bunker Hill FN Fr. Mohawk (89 units)	(42 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.

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

The recent program consisted of trenching, diamond drilling, mapping, VLF-EM surveying and soil sampling.

Diamond drilling totalled 72.7 m in 3 holes, with one hole of 41.9 m on the Cindy Lou Claim and 2 holes totalling 30.8 m on the Janelle Claim.

Backhoe trenching on the Janelle Claim totalled 455 m. This area was surveyed and mapped.

16,500 m of VLF-EM surveying was performed on parts of Janelle, AB-1, AB-2 and AB-3 claims.

One the AB-14 claim, 5400 m of grid and VLF-EM surveying were completed and 116 soil samples were taken over the same area.

Miscellaneous soil profiling and photointerpretation completed the program.

II. DIAMOND DRILLING

Three holes were drilled totalling 72.7 metres, as a continuation of a previous program on the No. 1 and No. 6 Veins. Drilling was done with a "Winkie" drill producing a 2.5 cm core. Core is stored at the drill sites. Logs of the holes are in Appendix 1.

#### No. 1 Vein

AB-1-4 was collared to intersect the NO. 1 Vein below a previous mineralized drill hole intersection (See Fig. 3). This hole encountered a broad quartz-siderite stringer zone with no economic mineralization. The stringers occur in two groups with different dips and may represent a structural intersection with insufficient movement to provide openings for ore deposition. A deeper drill hole will be required to complete the interpretation of this cross-section.

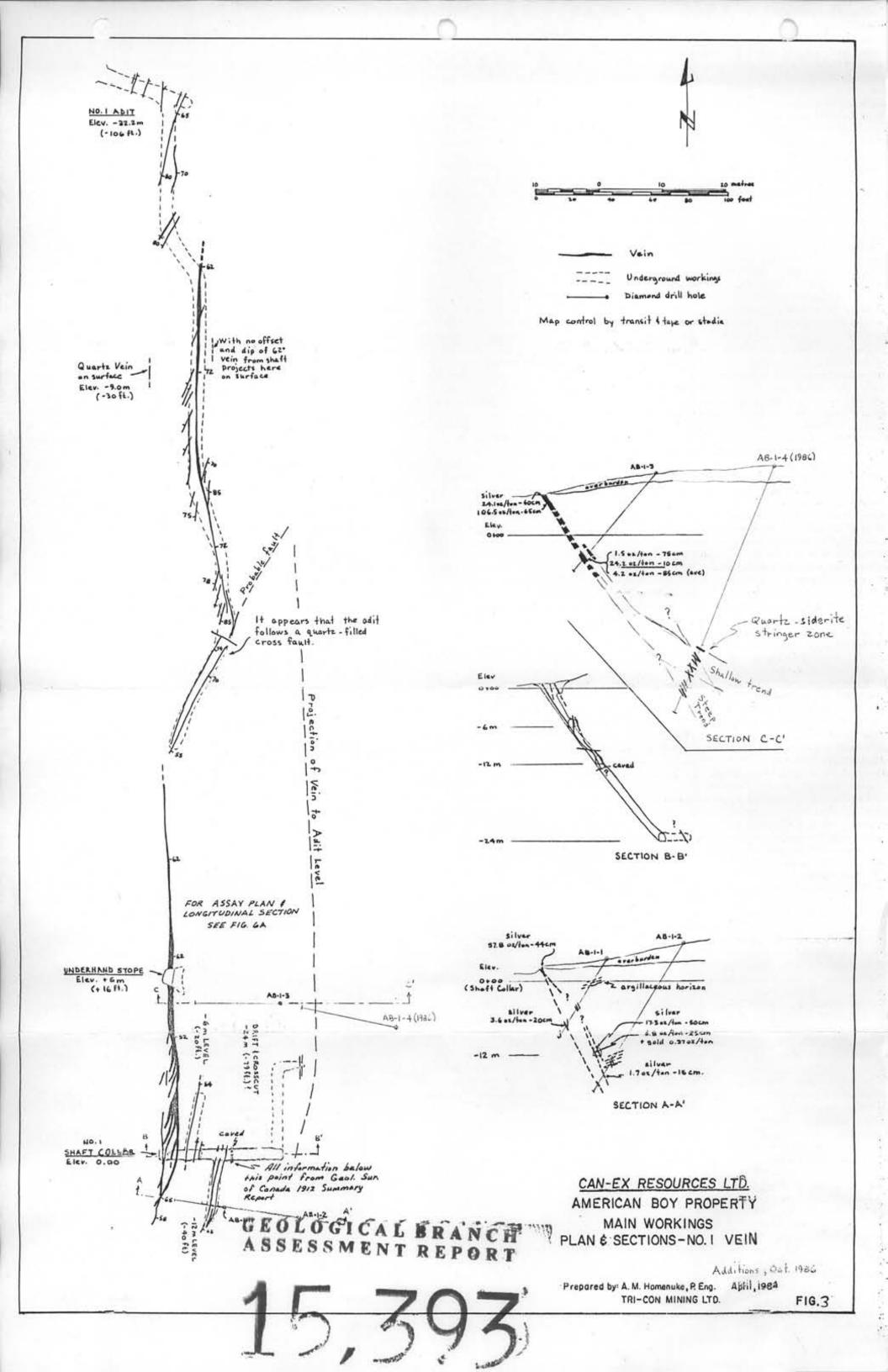
#### No. 6 Vein

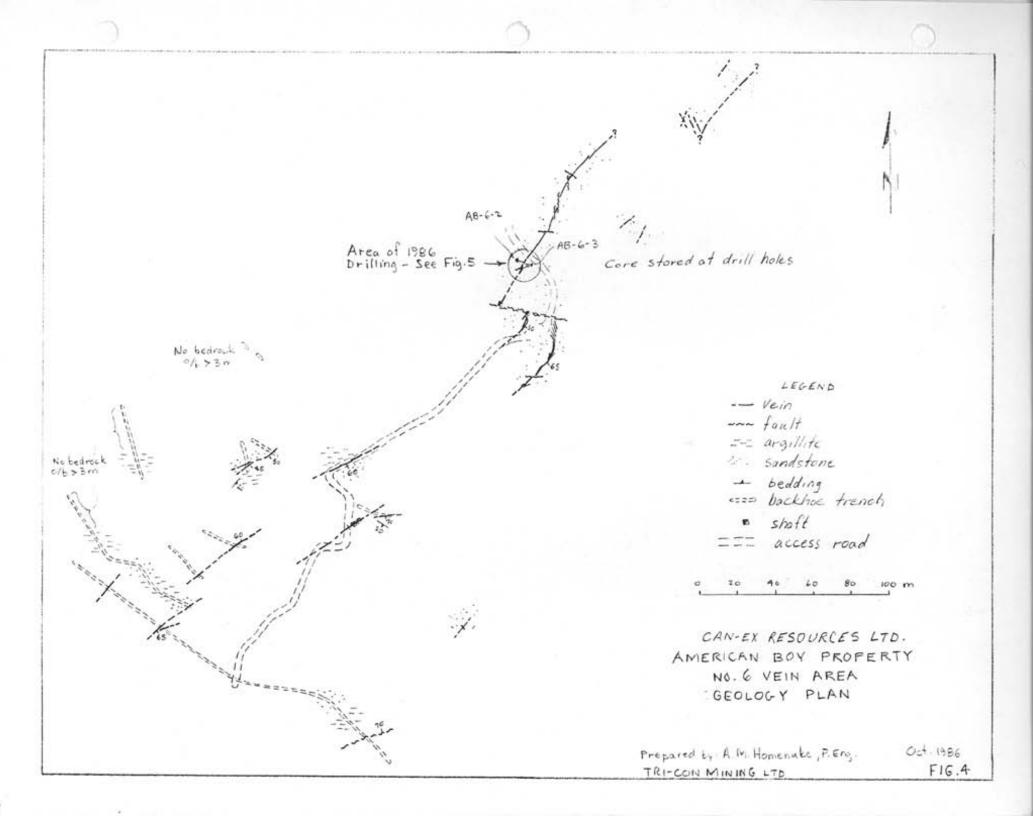
AB-6-2 was collared to intersect the No. 6 Vein below a pit which exposes high-grade silver ore (See Fig. 4, 5). No vein was encountered in this hole apparently due to a reversal in the dip of the vein. AB-6-3 was drilled from the other side of the outcrop and encountered a 17 cm vein with two 0.5 cm bands of sphalerite and minor galena in a gangue of quartz and siderite. Holes along strike and deeper will be required to fully evaluate this structure.

#### III. TRENCHING AND MAPPING

455 m of backhoe trenching accompanied by geological mapping were done on the southwesterly extension of the No. 6 Vein (Fig. 4). Previous geochemical surveys provided targets for the trenching. A number of quartz-siderite veins were encountered, however they did not contain sulfides.

-9-





A6-6-3 AB-86-2 W - Vein 17cm w/ sphalerite bands Sand stend ٠. ingilite No. 6 Vein Area Drill Hole Cross Section (looking North) 10 20 m

2



Soil depths were generally less than 1 metre to greater than 3 m. The shallow soil depths in the area of the veins combined with minor alteration is sufficient to explain most of the geochemical anomalies. Argillite may be a partial source for higher levels of zinc and silver. Results from soil profiles over mineralized and unmineralized veins were inconclusive possibly due to the effect of glaciation.

#### **IV. ELECTROMAGNETIC SURVEYS**

#### Instrumentation and Procedure

Two areas were surveyed with a Geonics "Ronka EM-16". The transmitter source for both surveys was Hawaii and readings were taken at 20-metre intervals facing east. The raw data profiles are shown in Appendix II. Surveying on the No. 6 Vein area totalled 16,500 metres on lines 50 metres apart. The filtered data are shown on Fig. 6.

A second survey on the AB-14 claim west of Four Mile Creek totalled 5,400 metres on lines 100 metres apart. The filtered data are shown on Fig. 7.

#### Discussion of Results

#### No. 6 Vein Area

The survey covered the area of this year's trenching and previous geochemical surveys as well as unmapped areas to the east. The VLF-EM pattern on the western half of the grid is considerably more complex than to the east. The known northeast trending veins follow the general trend a major EM conductive zone. Part of the complexity may be caused by conductive argillite beds which outcrop in trenches on the west half. This general northeast trend continues into the east half of the grid in a much simpler pattern. There appears to be cross faulting indicated by conductors and interruptions on north to northwest trends. With some allowance for glaciation and downslope migration the geochemical anomalies from previous surveys generally coincide with VLF-EM conductors.

#### Four Mile Creek Area

This survey was carried out over an area of a known instrusive with associated reconnaissance geochemical anomalies from previous surveys. A soil survey was done on the same grid and is discussed in the next section.

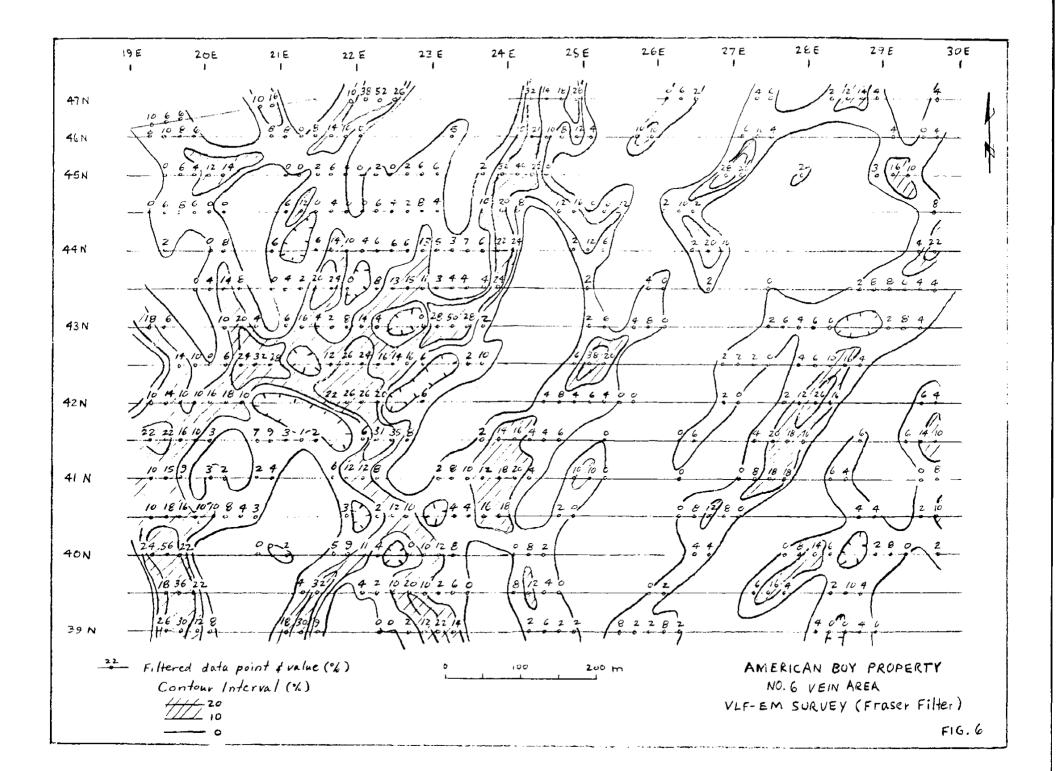
The results show a major northeast trending fault on the south side of the intrusive and a probable conjugate set of north and northeast trending block faults on the north side. There also appears to be some minor northeast trending structures.

#### V. GEOCHEMICAL SURVEY (FOUR MILE CREEK AREA)

#### Procedure

116 samples were taken over the same grid as the VLF-EM survey at 50-metre intervals.

-14-



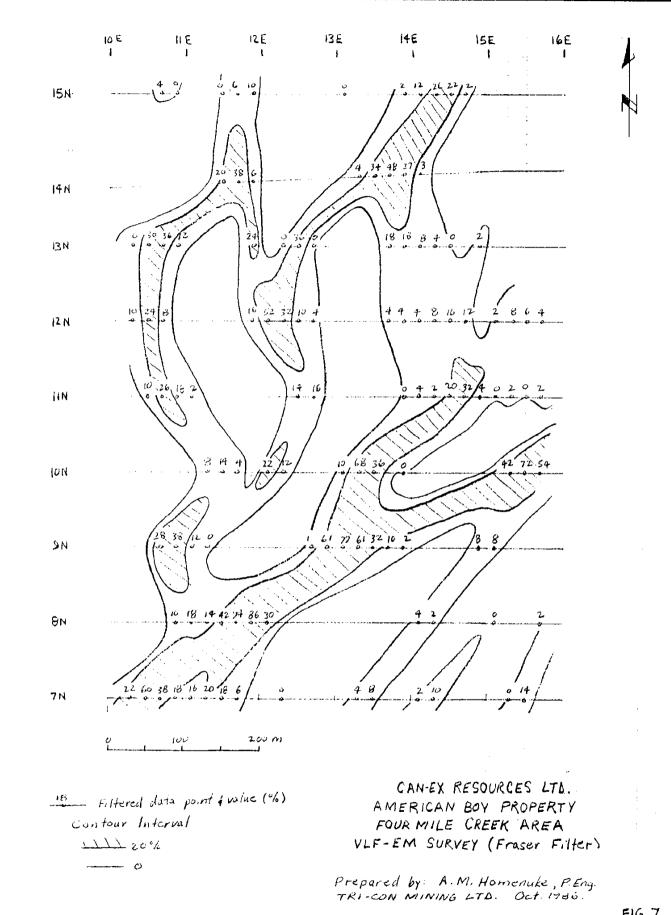


FIG. 7

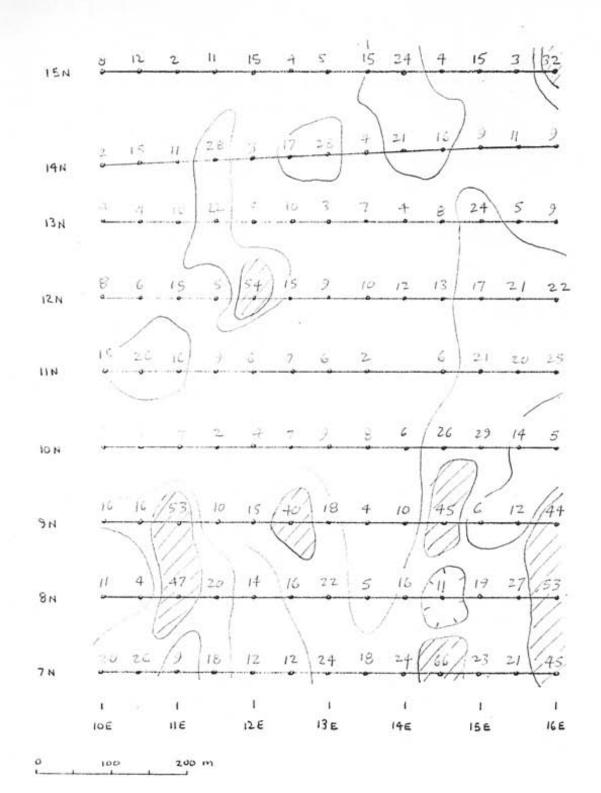
The samples were taken from the "B" horizon and placed into kraft envelopes and marked as to location. the samples were delivered to Acme Labs in Vancouver, B.C., where they were subjected to the following procedures:

- 1. Preparation dried at  $60^{\circ}$ C, pulverized if necessary, and sieved to -80 mesh.
- 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 (IPC) for lead, zinc, silver, arsenic and copper.

The results are shown on Fig. 8 to 12, with contour intervals chosen by experience and data inspection to show obvious trends.

### Discussion of Results

Anomalous values were identified for all five elements and are generally coincident with VLF-EM conductors with the highest values near indicated structural intersections. The anomalies in general flank the intrusive and probably represent, in part, a hornfelsed halo. Veins occur in these halos elsewhere on the property and the better anomalies are worthy of follow-up work.

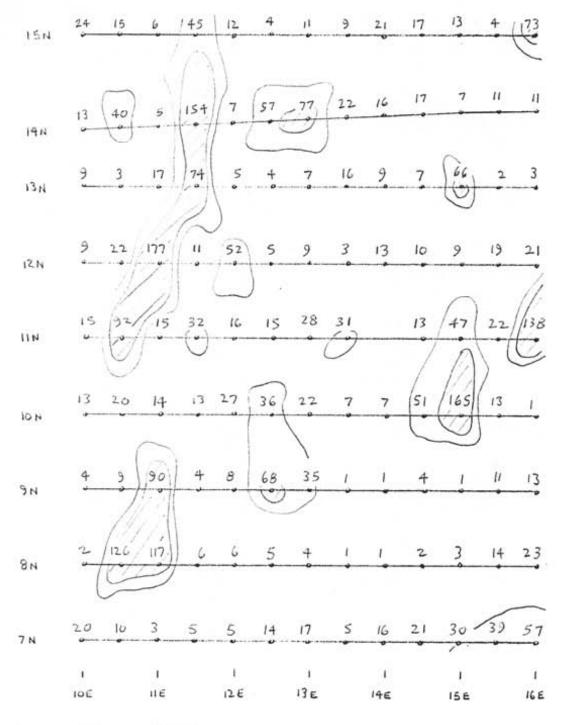


120 Soul Sample location & value (ppm)

## CAN-EX RESOURCES LTD. AMERICAN BOY PROPERTY GEOCHEMICAL SURVEY ARSENIC

Prepared by: A.M. Homenuke, P.Eng Oct. 1986 TRI-CON MINING LTD. FIG. 8

Contour Interval <u>////</u> 30 —— 15



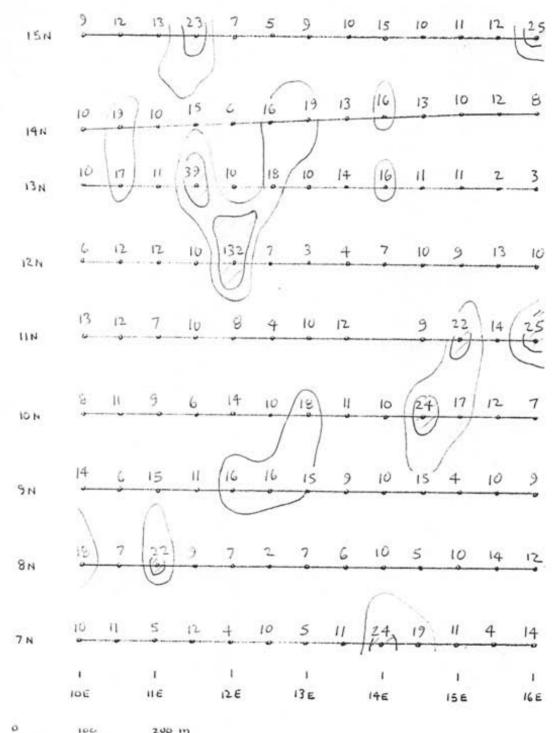
0 100 200 m

---- 30

<sup>12</sup>o Soll Sample location (value (ppm) Contour Interval <u>1///</u> (0

CAN-EX RESOURCES LTD. AMERICAN BOY PROPERTY GEOCHEMICAL SURVEY COPPER

Prepared by A.M. Homenuke, P.Eng Oct. 1986 TRI-CON MINING LTD. FIG. 9



100 200 m

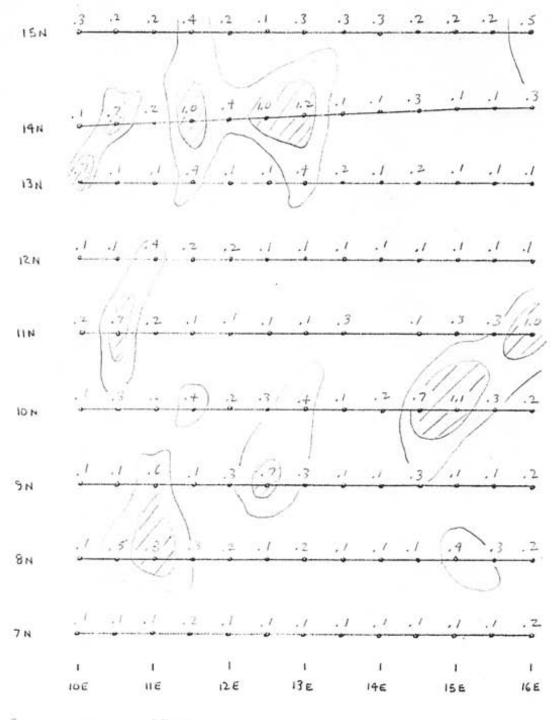
12 o Soil Sample location & value (ppm) Contour Interval ---- 15

## CAN-EX RESOURCES LTD. AMERICAN BOY PROPERTY GEOCHEMICAL SURVEY

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LEAD

Prepared by : A.M. Homenuke , P. Eng Oct. 1986 TRI-CON MINING LTD. FIG. 10

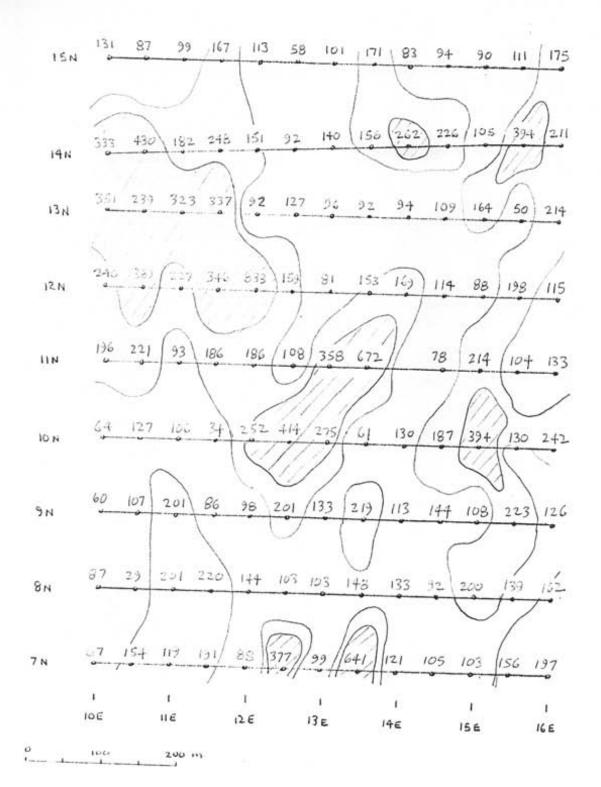


0 100 200 m

<sup>12</sup>o Soll Sample location & value (ppm) Contour Interval <u>PPM</u> <u>414</u>.6

## CAN-EX RESOURCES LTD. AMERICAN BOY PROPERTY GEOCHEMICAL SURVEY SILVER

Prepared by: A.M. Homenuke, P.Eng Oct. 1986 TRI-CON MINING LTD. FIG. 11



<sup>12</sup>o Soil Sample location (value (ppm) Contour Interval //// 24:

-- 150

## CAN-EX RESOURCES LTD. AMERICAN BOY PROPERTY GEOCHEMICAL SURVEY ZINC

Prepared by A.M. Homenuke, P.Eng Oct. 1986 TRI-CON MINING LTD. FIG. 12

#### VI. CONCLUSIONS

#### Main Workings (No. 1 and No. 6 Vein Areas)

Diamond drilling indicated structural complexity on the No. 1 Vein and continuity of mineralization on the No. 6 Vein Area. Further drilling is warranted on both areas.

Trenching the extension of the No. 6 Vein zone showed a number of unmineralized veins. These are within an angillaceous horizon which appears to be unfavorable for formation of ore shoots. Geological mapping will be required to determine target depths for drilling into more favorable sandstone horizons.

VLF-EM surveying shows conductors parallel to the No. 6 Vein system, butr further to the east. These conductors should be followed up by geochemical sampling and backhoe trenching.

#### Four Mile Creek Area

VLF-EM surveying and geochmical sampling has indicated coincident anomalies spatially related to a known intrusive. These areas, especially on the northwest part of the grid should be followed up by more detailed soil sampling, mapping and prospecting.

Respectfully submitted,

TRI-CON MINING LTD.

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

### COST STATEMENT

- The initial recording of work has had to be ammended due to invalid regrouping of NOTE: claims. This statement will reflect the ammended statments based on the claim groupings prior to commencement of this program.
- A. DIAMOND DRILLING July 28 August 14, 1986 (Incl. mob. & demob.)

3 holes, Winkie Drill, total 72.7 m. Site prep. and mob. Driller 7 days @ \$250 / day \$1,705 Helper 7 days @ \$150 / day 1,050 Equip. Rental 72.7 m @ \$7 / m 509 Bits, core boxes, mud, fuel & misc. 452 Vehicle 7 days 0 \$65 / day 455 Room & Board 16 man days @ \$40 / day 480 A. M. Homenuke, P. Eng. - log, survey, report 2 days @ \$400 / day 800 \$6,201 TOTAL

Cindy Group 3,872.64 Janelle Group 2,328.36

TRENCHING (Including Access Trails & drill site prep.) Β.

## July 28 - August 15, 1986

Backhoe and Operator 7 days @ \$400 / day	\$2,800
Supervisor & Safety 1 man 7 days @ \$200 / day	1,400
Vehicle 7 days @ \$ 65 / day	455
Room and Board 14 man days @ \$40 / day	560
TOTAL	\$5,215

TOTAL

C. NO. 6 VEIN AREA - VLF-EM SURVEY AND MAPPING

July 29 - August 12, 1986

Operator 6 days @ \$200 / day (1 day office) \$1,200 EM Rental 5 days @ \$30 / day 150 Room & Board 5 days @ \$40 / day 200 A.M. Homenuke, P. Eng. - mapping, supervisor and report 3 days @ \$400 / day 1,200 Secretarial, copying, misc. 100 TOTAL \$2,850

Cindy Group 850 Janelle Group 2,000

D. FOUR MILE CREEK AREA July 29 - August 14, 1986

5400 metres VLF-EM survey and grid. 116 soil samples

Operator 4 days 0 \$200 / day \$ 800 EM Rental 2 days 0 \$30 60 Vehicle 4 days @ \$65 260 Room & Board 4 man days @ \$40 160 Analysis 116 samples for As, Cu, Pb, Ag, Zn 0 \$5 each 580 A. M. Homenuke, P. Eng. maps, interp. & report 1 day @ \$400 400 Misc. supplies 50

TOTAL \$2,310

Four Mile Group

TOTAL ALL ARE	LA	LL /	٩RE.	AS -
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\$16,576

-25-

## REFERENCES

Homenuke, A. M., 1978 - 1986, Various assessment reports.

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

-27-

#### 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 30th day of October, 1986.

A.M. Homenuke Ena.

Geological Engineer

## APPENDIX I

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DIAMOND DRILL HOLE LOGS

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0-3		0									 	overburden
3-31.7		100										Mudstone - f.g. grey - dark grey, soft, few arg. partings 60°C.A.
					-		NÖ	A551	773			5.0 6 cmgtz 60°, gtz. str. to 1cm 3-10/m few py from ste
31.7-41.9		100									. <u></u>	Sandstone - m.g. grey, slightly altered becomes finer groined
									!		i I	more argillaceous (siltstone) bedding to 40° (curved hile
									<u>i</u>		 	31.7-39.0 Stringer zone
					<u> </u>							31.7 12 cm gtz-eid. 80° 32.6 10 cm gtz-sid-chlor 55°
									<u> </u>		i	32.8 2 cin 9tz. 70"
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					<u>  </u>				<u>i</u>	1	:	$33.7 \qquad \text{Scm gHz}  60^{\circ}$
											:	34.1 7 cm gtz-sid. 85°
										1		34.4 7 cm gtz-sid 40°
								!		1		35.0 6 cm gtz-sid 80°
							i			i		35.2 4 cm 9tz-sid-lim 40°
									1	1		36,9 4 cm gtz-sid 45°
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Sheet 1/ of 1

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	<b>J</b>	<u> </u>		<b>↓</b> ′	<b>↓</b> ]	<b>⊢</b> −− <b>∔</b> −			<u> </u>		<u> </u> '	<u>;    '</u>	·····						
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	I	⊢]	┢────┤	⊢′	<b></b> ]	<b>⊢</b>	<u> </u>		······		<u> </u> '	<u> </u>							
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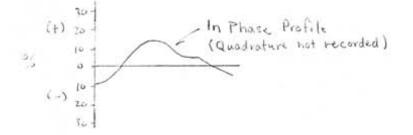
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Mining Division		OMI	NECF	<b>A</b>			Pr	opei	rty		Awa	17. 1	106	Boy  Bearing  300°  Sheet  Inclination  Hole No.    Inclination  -51°  Coordinates
Geographi Coordinat	c — es ·				···-,= 		Co. Lo	mple gged	eteć 1 by	i _ 7: _	A.	H01	<u>ne</u> 1	nuke Depth 10.1 m Altitude
Footage	Core	%	'n			02/				°/.				REMARKS
(metres)	Rec	Rec	from	+0	wid#	Ag	Au	Cu	Pb	Zn	As	156	•	
0-2		0							1	İ	1			Overburden
2-10,1								ļ	ļ			<u> </u>		Sandstone fine - med gr., grey few arg. part. 40°CA
										<u> </u>	<u> </u>	<u> </u>	<u> </u>	
										<u>i</u>	1	ļ	<u> </u>	8.8 17 cm Vein Banded quartz-siderite 60°
										! 	 		 	with Z. O. 5 cm bands sphalerite & minor gai tr tet., py., minor calcite.
										1		<u> </u>		tr tet., py., minor calcite.
										!		1		9.1 2 × 0.2 cm gtz str w/ minor chalcopyrite
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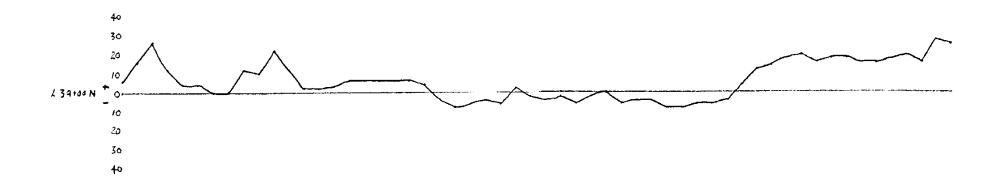
## APPENDIX II

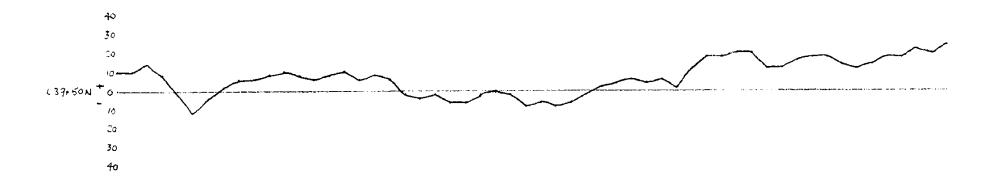
## VLF-EM SURVEYS - RAY DATA PROFILES

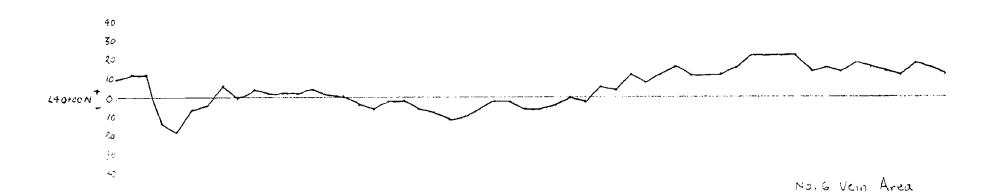
LEGEND

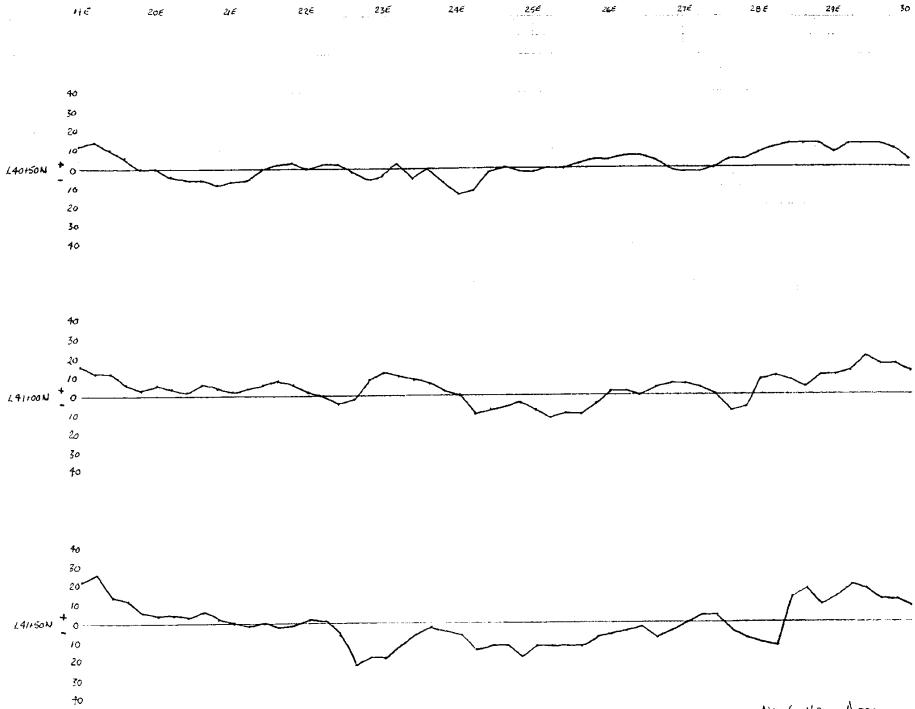


IJE	20 <b>E</b>	21E	22E	2 <b>3</b> E	24 년	25Ē	26E	27€	28E	29E	30 €

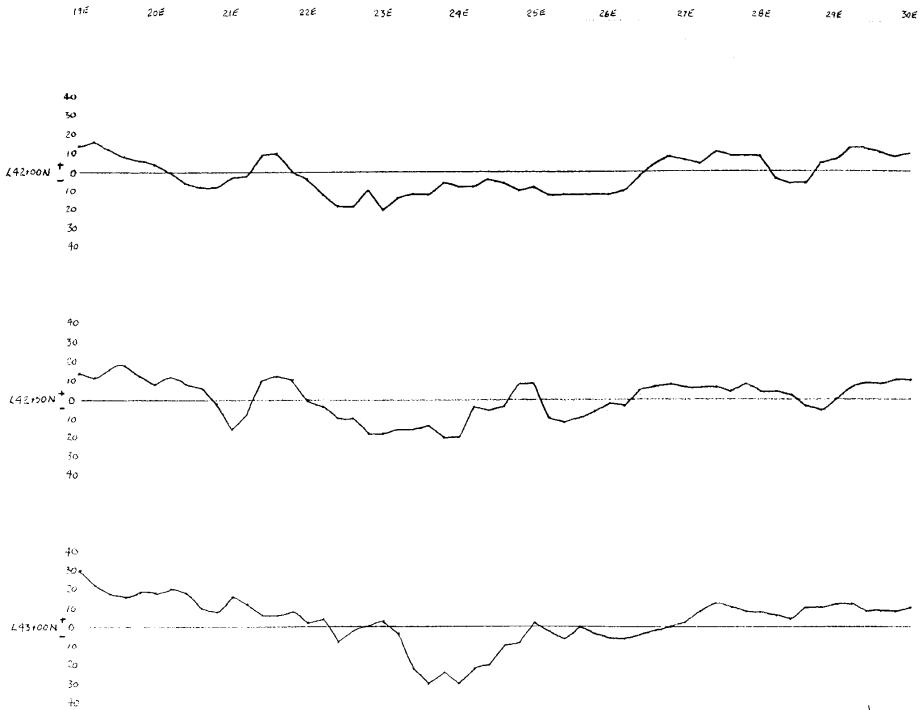






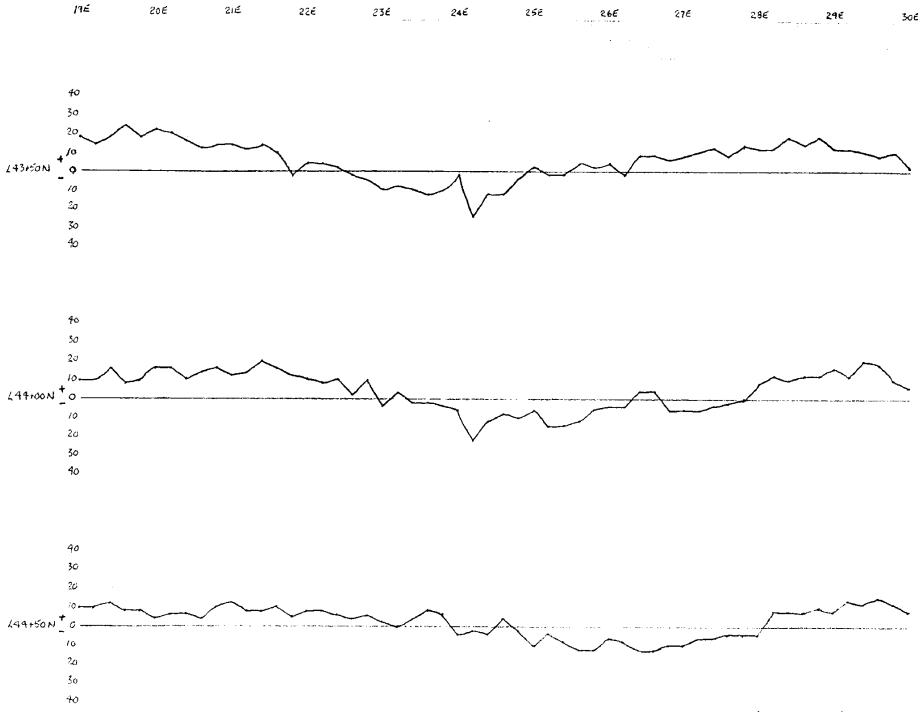


No. 6 Vein Area

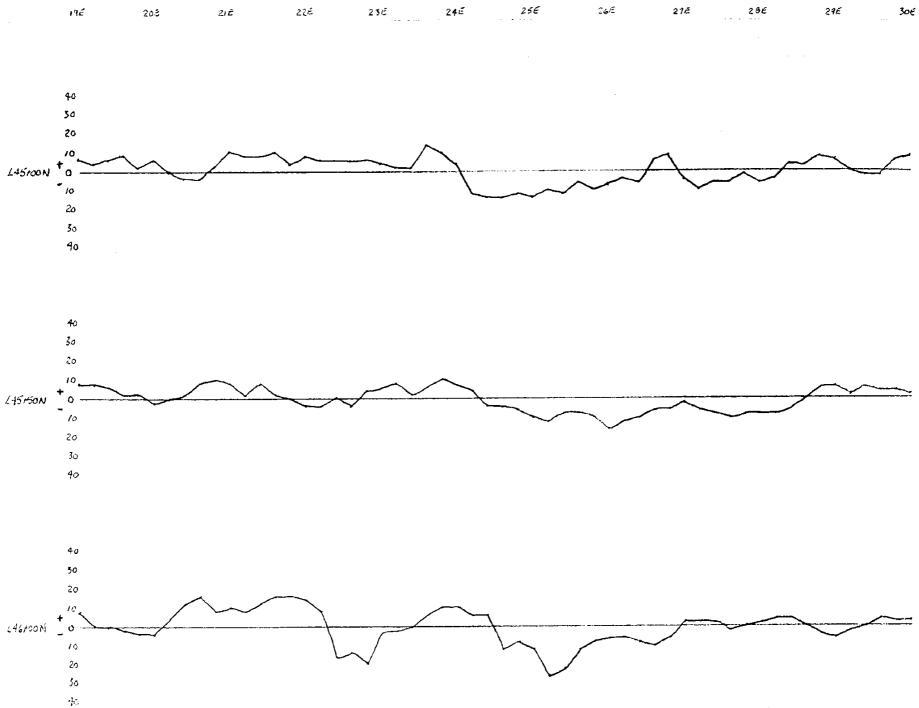


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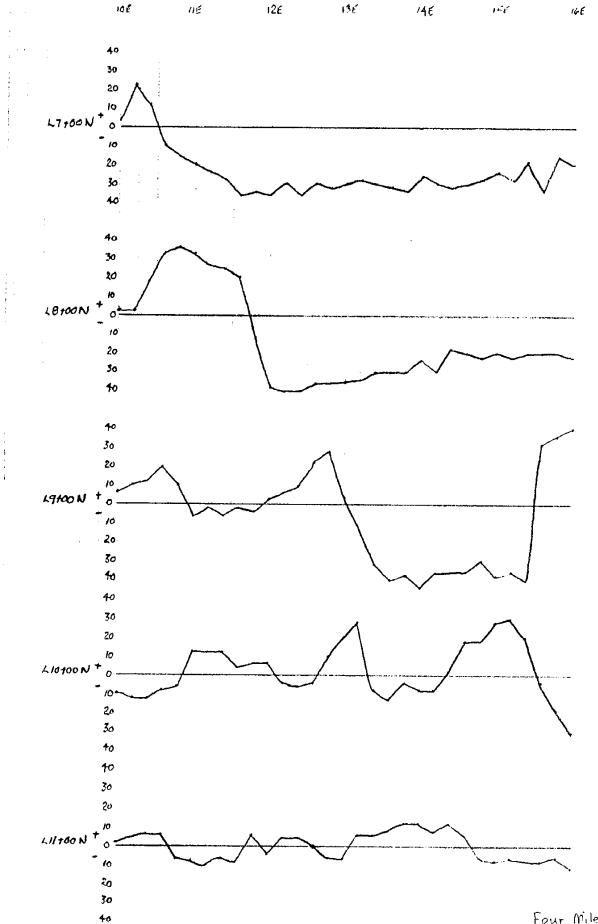
No 6 Vein Area



No. 6 Vein Area

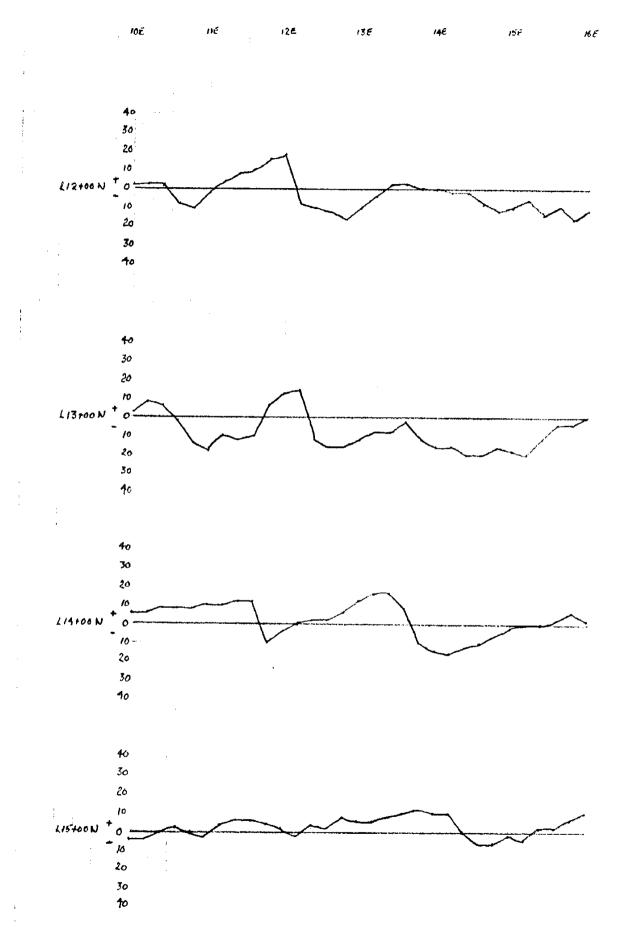


No 6 Vein Area



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Four Mile Creek Area



Four Mile Creek Area