PROSPECTING REPORT

on the

FOX 1 MINERAL CLAIMS
RECORD NO. 2918
NTS 104P/3W

Latitude: 59°13'N Longitude: 129°26'W

LIARD MINING DIVISION

B.C.

by

A.E. Heagy

Work done: August 23 - 27, 1983
By: J.C. Stephen Exploration Ltd.
Funded by: Newmont Exploration of Canada Ltd.

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PROSPECTING REPORT
ON THE
FOX 1 MINERAL CLAIM

SUMMARY AND CONCLUSIONS

The FOX 1 claim is located 15 kilometres east of Cassiar B.C. on the fringe of the Cassiar (McDame) lode and placer gold mining district. The claim was staked in August 1983 to cover a tetrahedrite bearing quartz vein located in pyritic shale of the Sylvester Group.

The geology of the property consists of pyritic shale and andesitic flows and volcaniclastics of the Sylvester Group. Minor serpentinite, greywacke, chert and diorite are found in the area.

A well mineralized sample of the quartz tetrahedrite vein material assayed 0.003 oz per ton gold, 7.28 oz per ton silver, 0.57% arsenic, 1.86% copper. A chip sample across the two metre width of the vein ran <10 ppb Au, 340 ppm As, 11.5 ppm Ag and 1250 ppm Cu. No other anomalous samples were collected on the claims but several anomalous stream silt samples, carrying up to 170 ppb Au, were collected from open ground to the south of the FOX claims.

In itself the known mineralization is of limited interest but the area has good potential for additional mineralized veins. If such a vein system could be traced into the volcanic rocks it might contain significant gold and silver values.

Further work is recommended on the FOX 1 claim and in the open ground to the south. A program of intensive prospecting and geochemical silt and soil sampling accompanied by geological mapping and structural analyses is proposed.

INTRODUCTION

The 12 unit FOX 1 claim was staked on August 22, 1983 to cover a quartz-tetrahedrite vein in black pyritic shale of the Sylvester Group.

Eight man days were spent carrying out limited geological mapping, geochemical sampling and further prospecting.

The claims lie on the eastern fringe of the Cassiar McDame lode and placer gold mining camp. See Figure 1.

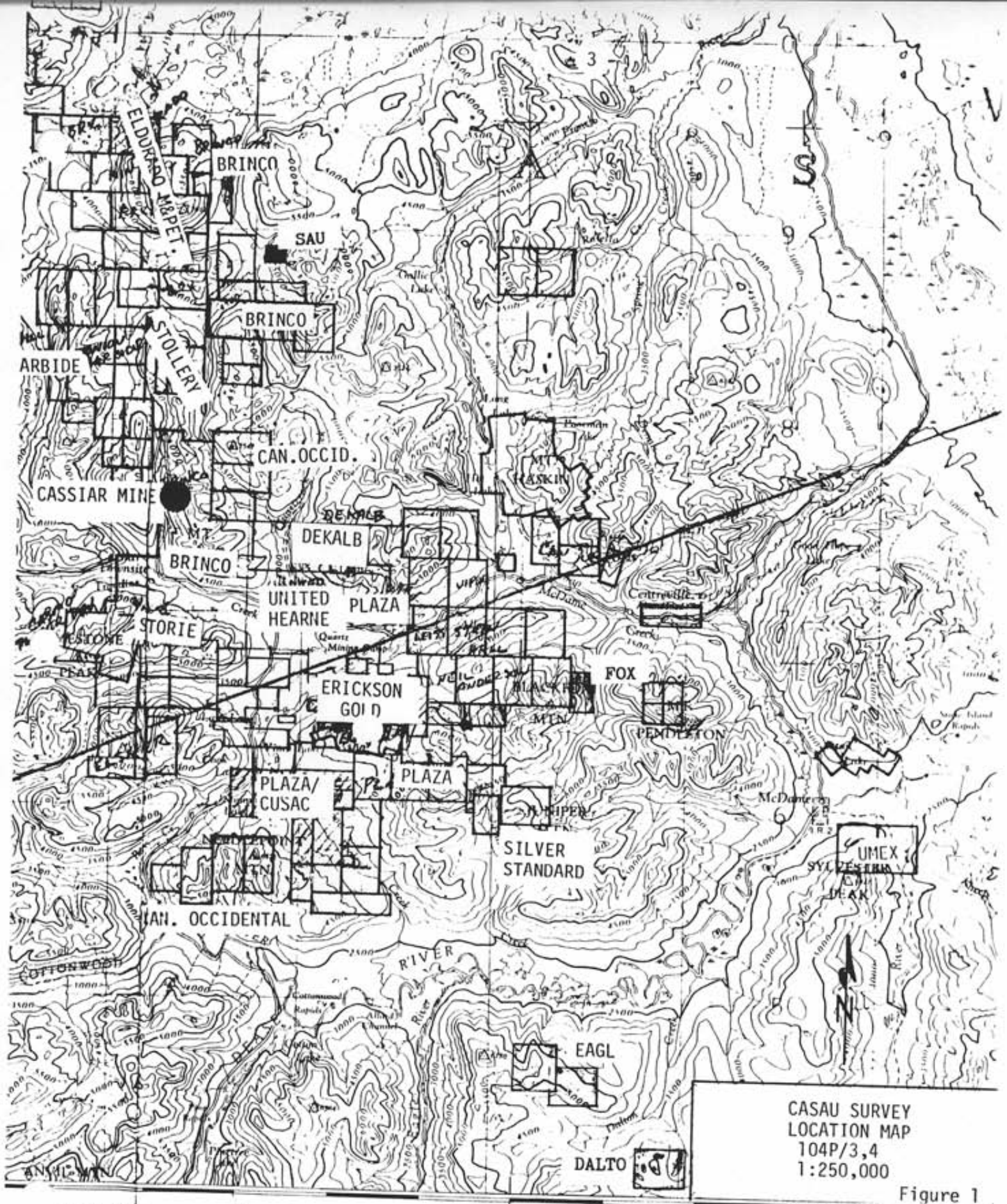


Figure 1

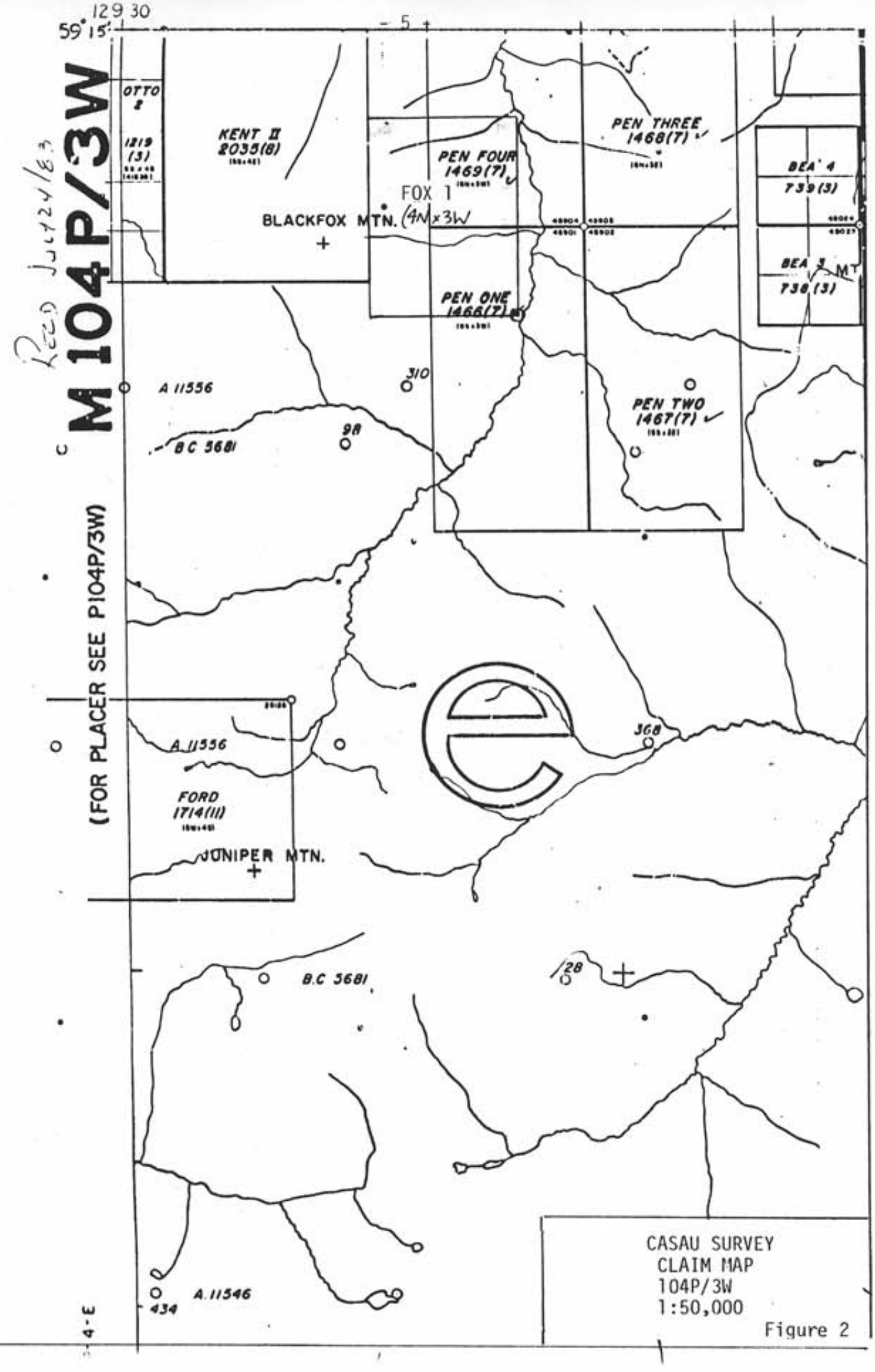
45 30' 15'

...ed by Dept. of Mines and Technical Surveys, Ottawa
... by Dept. of Lands, Forests, Branch Columbia

CLAIMS REGISTER

NAME	RECORD NO.	RECORD DATE
FOX 1 (12 units)	2918	Sept 2 1983

SEE FIGURE 2 CLAIM MAP



CASAU SURVEY
CLAIM MAP
104P/3W
1:50,000

Figure 2

LOCATION, ACCESS AND TOPOGRAPHY

The FOX 1 claim is located on the lower eastern slope of Black Fox Mountain about 15 kilometres east of Cassiar, B.C. The claims are in the Liard Mining Division and adjoin the eastern boundary of the KENT II claim. The Erickson Gold mine and camp is some seven kilometres west of the FOX property. See Figure 3 Location Map.

The Stewart-Cassiar Highway is along McDame Creek only two kilometres north of the property but access to the claims to date has been by helicopter.

Elevations on the property range from about 3200 feet (1000 metres) to 5600 feet (1700 metres). Except for the western boundary which lies above treeline, the claim is well wooded. Bedrock is close to surface and generally exposed along the numerous gullies which run off the east-facing slope into a north draining unnamed tributary of McDame Creek.

REGIONAL GEOLOGY

The regional geology as mapped by Gabrielse (GSC Memoir 319, 1963) is shown in Figure 3. Detailed mapping of the Cassiar Gold Deposits by Panteleyev and Diakow (B.C. Energy, Mines and Petroleum Resources Paper 1981 - 1, 1982 - 1) did not extend as far east as the FOX claim area.

The property lies entirely within Gabrielse' unit 8, Sylvester Group, consisting of a greenstone-argillite chert package of Upper Devonian to Mississipian age. The Sylvester rocks form the core of the southeast plunging McDame synclinorium. Older rocks exposed to the northwest are platformal carbonate and clastic units. The Cretaceous Cassiar Batholith has intruded the western side of synclinorium.

CASAU SURVEY
REGIONAL GEOLOGY
104P/3,4

1"-4 miles

Figure 3

PROPERTY GEOLOGY

The preliminary geological mapping of the claim area has been plotted at 1:5000 scale on Map I (in back pocket). The Sylvester Group rocks have been subdivided into six mappable units in this area.

LITHOLOGY

Unit 1: Shale

This unit consists of recessive weathering very fine grained, fissile, black pyritic shale. It typically also contains thin intervals of shaly chert and fissile black siltstone.

Unit 2: Siltstone and Greywacke

The siltstone is a granular, gray, poorly bedded rock containing minor disseminated fine grained pyrite. The graywacke is a slightly coarser and more poorly sorted facies of the siltstone.

Unit 3: Chert

The chert unit is very heterogeneous in the vicinity of the claims. The exposures indicated in the southwest corner of the map are composed of hematitic, phyllitic to platey chert.

Unit 4: Andesite

Much of the volcanic rocks in the area consists of flow banded, fine grained green andesite. These rocks are quite soft and chloritic and contain minor disseminated pyrite or pyrrhotite. Where a coarse volcaniclastic texture was noted the rocks were separated as subunit 4a, a tuff-breccia, but generally the unit is thought to be mostly structureless flows.

Unit 5: Serpentinite

A few very small outcrops of dark green to black serpentinite occur on the western border of the FOX claims.

Unit 6: Diorite

The diorite is a green medium grained equigranular intrusive rock which apparently formed sills and dykes feeding the extrusive andesites. The plagioclase is a pale green colour and the augite has been slightly chloritized. Minor disseminated pyrrhotite is also present.

The main lithologies exposed on the FOX 1 claim are shale and volcanic rocks of Units 1 and 4 respectively. The shales are exposed along the lower creek gullies while the andesites form more resistant outcrops above treeline on the western margin of the claim.

STRUCTURE

The few bedding attitudes measured strike east-west and dip steeply to the south. This conflicts with the regional structural trend and the outcrop patterns which indicate a gently westward dip.

Faulting, on at least a small scale, is very evident and slickensides accompany most quartz veins and small carbonate alteration zones. Tight folding was observed in a chert outcrop south of the claim area.

A few air photo linears have been indicated on Map I to the west of the FOX 1 claim. In the claim area the vegetation masks any linears which might otherwise be visible.

MINERALIZATION

The only significant mineralization so far located on the FOX 1 claim is a single quartz-tetrahedrite vein which cuts pyritic shale of Unit 1. The vein is exposed in a creek gully in the southern half of the claim and can be traced for 23 metres horizontally and 10 metres vertically. The vein appears to strike 045° and dip 70° to the northwest. The exposed width of the vein is 260 cm horizontally which would indicate a true width of 2 metres. Figure 4 is a detailed sketch of the mineralized vein exposure.

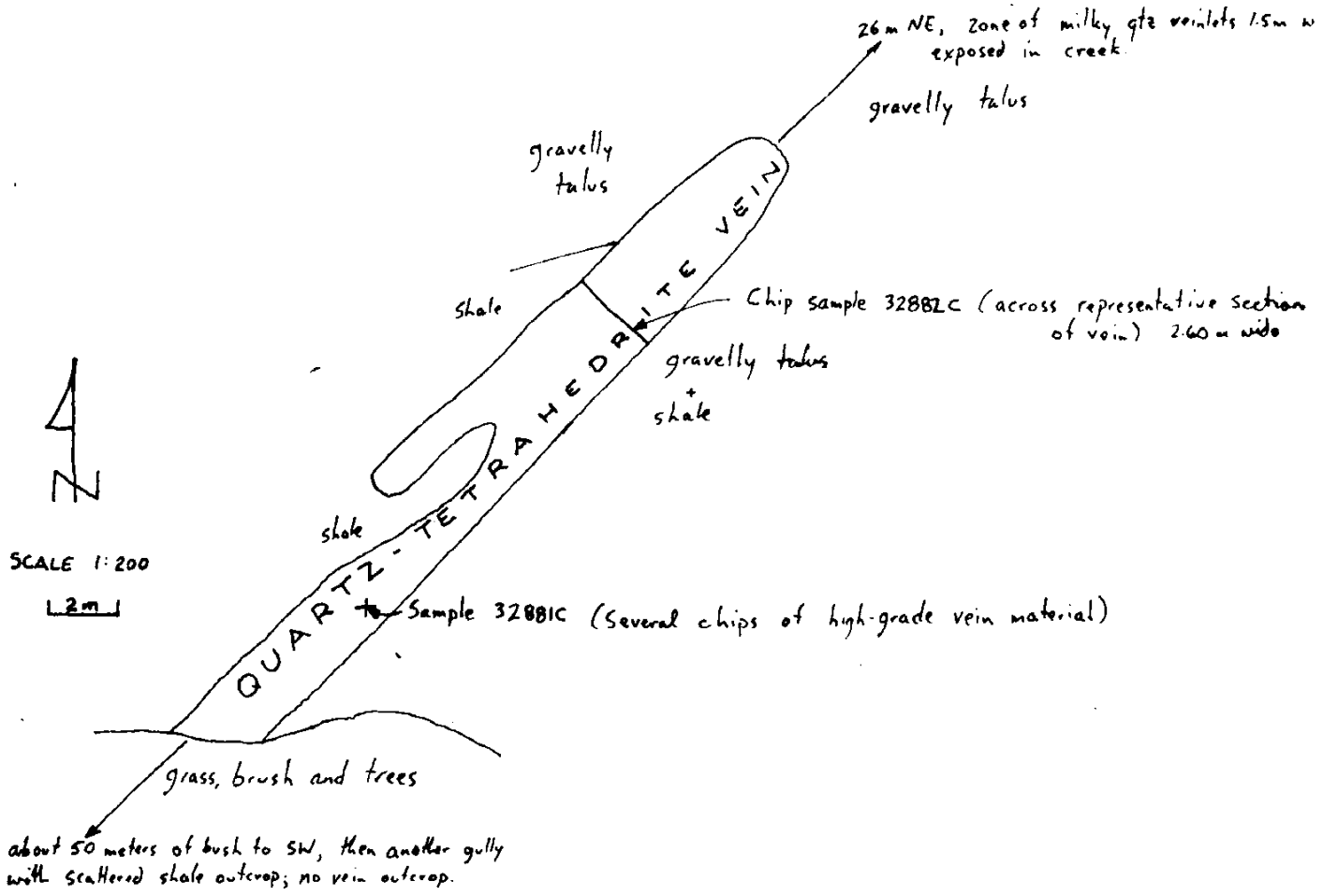
The vein consists of milky white quartz with abundant fragments of the pyritic shale wallrock and up to 10% medium to coarse tetrahedrite mineralization. The tetrahedrite is concentrated near the edges of the vein and averages about 1% across the width of the vein. The vein is limonitic weathering and malachite is associated with the tetrahedrite mineralization.

Attempts to follow the vein along strike were not successful. A continuous outcrop along a creek to the northeast of the showing contains a 1.5 metre wide zone of anastomosing milky quartz veinlets with no tetrahedrite or limonite. The next gully to the southwest of the showing contains scattered outcrop of shale and sparse limonitic quartz float with shale fragments but no tetrahedrite mineralization was observed.

The maximum extent of the mineralized section of the vein is thus only a hundred metres. Smaller quartz veins, generally without limonite, are common in all the gullies on the claim but contain no significant mineralization.

A small pit near the quartz-tetrahedrite vein indicates that this showing has been previously examined.

SKETCH of QUARTZ-TETRAHEDRITE VEIN
FOX 1 CLAIM GROUP



AUGUST 26, 1983
H. AWMACK

FIGURE 4

Similar mineralization is known on other claims in the area and in some cases contains significant gold and/or silver values. The northeast strike of the vein is unusual as most of the vein systems in the Cassiar camp trend east-west.

There is good potential for locating additional mineralized veins on the FOX 1 claim as well as in the surrounding area.

GEOCHEMISTRY

Only limited geochemical sampling has been carried out on the FOX 1 claim. Rock, stream silt and soil samples were collected to determine the geochemical signature and downslope dispersion of the tetrahedrite mineralization.

Details of sample preparation and analytical methods and data sheets for the samples are included in Appendix I. All sample preparation and analysis was carried out by Chemex Labs, North Vancouver, B.C.

ROCK GEOCHEMISTRY

Two samples were collected from the mineralized vein. Sample 32881C consisted of the best-mineralized material from the quartz-tetrahedrite showing. It assayed 0.003 oz/ton gold, 7.28 oz/ton silver, 0.575% arsenic and 1.86% Cu. Sample 32882C was a chip sample collected across the 260 cm width of the mineralized vein. Geochemical analyses returned values of <10 ppb gold, 11.5 ppm silver, and 1250 ppm copper and 340 ppm arsenic.

Four other rock samples of iron carbonate altered rocks generally associated with white quartz veining were analysed only for gold and arsenic. Values were not anomalous. Sample 32884C, some distance south of FOX 1, is from a large zone of iron carbonate alteration associated with volcanics. No gold is present in this sample but it contained 780 ppm arsenic.

STREAM SILT SAMPLING

Three silt samples were collected at about 400, 800 and 1200 metres downstream of the mineralized outcrop. Two silt samples were collected from tributaries draining gullys about 100 metres south of the showing. All samples were analysed for gold, silver, copper and arsenic.

Values obtained ranged from 10 to 20 ppb Au, 0.5 to 0.8 ppm Ag, 74 to 108 ppm Cu and 36 to 59 ppm As. Only the copper values showed a systematic decrease downstream.

Although the values are slightly above the regional background levels for these elements the levels are comparable to those obtained in more extensive silt sampling in the area to the south of the FOX claim.

It is suggested that the area surrounding the FOX claim has an elevated background level for these elements.

The two silt samples taken from the tributaries with no known mineralization upstream contained the highest levels of copper and arsenic. Further prospecting in these creeks may locate additional mineralization.

Only one other creek on the property was sampled and was not anomalous. A number of silt samples from creeks to the south of FOX claim carried gold values of 20 to 50 ppb and one sample ran 170 ppb Au. Arsenic, silver and copper values in these samples were not particularly anomalous.

SOIL SAMPLING

Soil samples were collected at 50 metre intervals along the eastern claim boundary. Where possible samples were collected from the B soil horizon, otherwise the A horizon was sampled at depths of 20 to 30 centimetres. Samples were analysed for silver and copper only.

No strong anomalies were detected in the forty-one soil samples. The silver results ranged from 0.1 to 1.1 ppm while the copper levels were between 11 and 77 ppm. The silver values do show a clustered distribution but the copper values are erratic and not correlated with the silver values.

CONCLUSIONS

The 1983 work on the FOX 1 claim consisted of preliminary geological mapping and limited rock, silt and soil sampling. A total of $1,676.00 were spent on the claims.

The known quartz-tetrahedrite showing contains no gold values and only low silver values. Although the stream silt and soil sampling did not indicate any strong anomalies it is suggested that close spaced sampling might be useful in locating mineralized veins.

The potential of the claims and surrounding area for locating additional mineralization is considered good. It is possible that if a mineralized vein system could be traced into the volcanic stratigraphy it might carry significant gold as well as silver mineralization.

Several anomalous silt samples were collected from streams draining open ground to the south of the FOX 1 claim. Further prospecting is needed to follow on these anomalies.

RECOMMENDATIONS

Further work is recommended on the FOX 1 claim and in the open ground to the south of the FOX 1 claim.

The proposed program consists of: -

1) intensive prospecting and geochemical sampling of soil and silt material on the FOX 1 claim.

2) detailed geological mapping and structural analysis of the FOX claim.

3) follow-up prospecting, geochemical sampling and mapping in the open ground in the area, especially in the drainage areas of the anomalous silt samples collected in 1983.

Respectfully submitted,
J.C. Stephen Explorations Ltd.,

A.E. Heagy

A.E.S./ms

STATEMENT OF EXPENDITURES

WAGES AND BENEFITS

H. Awmack	August 23 - 27 inc @ $115.	$575.	
I. Stephen	August 23 - 27 inc @ $ 60.	300.	
			$875.00

FOOD AND CAMP SUPPLIES

10 man days @ $12.	$120.00

GEOCHEMISTRY

Invoice 14472	1 rock geochem for Au, As, Ag, Cu	$11.05	
Invoice 14473	1 rock assay for Au, As, Ag, Cu	27.50	
Invoice 14471	5 silt geochem for " @ $11.05	55.25	
	41 soil geochem for Au, Cu @ $2.80	114.80	
			$208.60

TRANSPORTATION

Capital Helicopters	
Pro rata portion of flight times	
1.0 hours @ $425./hour + fuel	$472.40
TOTAL EXPENDITURE	1,676.00

APPENDIX I

SAMPLE DATA SHEETS

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET – STREAM SILTS

B.C. GOLD SYNDICATE

SAMPLER Awmack

DATE Aug #19 26, 1983

PROJECT CASAU - FOX 1 CLAIM
ALPHA

NTS 104P 3/W

CREEK

AIR PHOTO NO. BC 5691 156

SAMPLE NO.	VOLUME Width	VOLUME Depth	VELOCITY	Ph	TYPE OF SAMPLE	COLOUR	TEXTURE	% ORGANIC MATERIAL	PETROLOGY OF BEDROCK AND/OR FLOAT	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS Au	As	Ag	Cu
83-CAZ-112	50 cm	5 cm	mod		under rocks	grey	gravel/sand/silt	1%	andesite		<10	41	0.1	98

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET – SOIL SAMPLING

NTS

SAMPLER Ron Stephens

PROJECT CASAU – Blackfox

LINE EAST CLAIM LINE

DATE Aug 25/83 (Samples taken on 23rd)

FOX 1

AIR PHOTO NO.

SAMPLE NO. 83-CAA	LOCATION	Depth	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS			
				Colour	Part Size	% ORG.	Ph				Au	As	Ag	Cu
0+00 N		12"	A	gray/brown	fine	20		slight	moss, pinetrees	These samples start at the LCP for			0.7	40
0+50 N		12"	A	gray/brown	"	"		"	"	Fox 1 and continue north at 50m intervals.			1.1	52
1+00 N		8"	A	light brown	"	"		"	"				0.5	52
1+50 N		8"	A	light brown	"	"		"	"	Very rocky ground			0.5	40
2+00 N		8"	B	red/brown	"	"		"	"				0.4	17
2+50 N		8"	B	red/brown	"	"		"	"				0.4	14
3+00 N		8"	B	red/brown	"	"		"	"				0.5	26
3+50 N		24"	B	red/brown	"	"		"	"				0.4	34
4+00 N		10"	A	gray/brown	"	"		"	"				0.7	28
4+50 N		14"	B	red/brown	"	"		"	"				0.4	19
5+00 N		10"	A	light brown	"	"		"	"				0.6	56
5+50 N		12"	A	light brown	"	"		"	"				0.1	27
6+00 N		12"	B	red/brown	"	"		"	"				0.2	13
6+50 N		8"	B	red/brown	"	"		"	"				0.2	18
7+00 N		8"	B	red/brown	fine	20		"	"				0.2	19
7+50 N		5"	A	gray	course	10		"	"	Very rocky ground			0.5	60
8+00 N		6"	A	dark brown	fine	20		"	"	Very rocky ground			0.7	55
8+50 N		8"	A	gray/brown	"	"		"	"	Too many roots			0.6	36
9+00 N		24"	A	gray	"	"		"	"				0.5	31
9+50 N		12"	B	light brown	fine	20		slight	moss, pinetrees				0.3	20

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET – SOIL SAMPLING

SAMPLER Don Stephen

DATE Aug 25/83

PROJECT CASAU

NTS

LINE FOX 1 - EAST CLAIM LINE

AIR PHOTO NO.

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS			
				Colour	Part Size	% ORG.	Ph				Au	As	Ag	Cu
10+00 N		6"	B	red/brown	fine	20		slight	moss, pinetrees				0.3	33
10+50 N		6"	B	light brown	"	20		"	"				0.1	73
11+00 N		8"	B	light brown	"	30		"	"				0.9	35
11+50 N		8"	B	red/brown	"	20		"	"				0.8	40
12+00 N		10"	B	red/brown	"	30		"	"				0.9	30
12+50 N		7"	B	med brown	"	20		"	"				1.0	38
13+00 N		10"	B	red/brown	"	20		"	"				0.7	24
13+50 N		14"	A	gray/brown	"	30		"	"				0.5	57
14+00 N		14"	A	gray/brown	"	30		slight	moss, pinetrees				0.5	24
14+50 N		7"	A	dark/brown	"	30		med	swampy	Too many roots			0.6	12
15+00 N		18"	A	gray	"	20		med	Swampy				0.4	77
15+50 N		14"	A	dark brown	"	30		slight	moss, pinetrees	Hit rock			0.6	56
16+00 N		10"	B	red/brown	"	10		"	"				0.2	34
16+50 N		6"	B	"	"	10		"	"				0.3	42
17+00 N		8	B	red/brown	"	10		slight	moss, pinetrees				0.1	28
17+50 N		9	B	light brown	"	20		steep	Swampy				0.3	32
18+00 N		12	A	dark brown	"	30		"	"	Hit rock			1.1	28
18+50 N		8"	B	light brown	"	20		steep	swampy				0.4	11
19+00 N		8	B	light brown	"	20		slight	moss, pinetrees				0.2	66
19+50 N		24"	A	med brown	fine	20		med	"				0.7	58
									moss					

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET – STREAM SILTS

B.C. GOLD SYNDICATE

SAMPLER Ron Stephen

DATE Aug 25/83

PROJECT CASAU

NTS 104 P3/W

CREEK

AIR PHOTO NO. BC 5681 038

SAMPLE NO.	VOLUME Width	VOLUME Depth	VELOCITY	Ph	TYPE OF SAMPLE	COLOUR	TEXTURE	% ORGANIC MATERIAL	PETROLOGY OF BEDROCK AND/OR FLOAT	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS Au	As	Ag	Cu
83 CAZ 225	4"	4"	fast		silt	pink/brown	moderate	0	volcanics		20	27		
" 226	4"	4"	slow-mod		"	med brown	fine	0	volcanics		<10	27		
" 227	4"	4"	slow		"	med brown	very fine	20	volcanics		<10	22		
" 228	6"	2"	fast		"	light brown	med	0	chert		20	27		
" 229	5"	3"	"		"	med brown	fine	40	"		20	25		
" 230	4"	4"	fast		"	med brown	fine	0	"		50	45		
" 231	4"	4"	mod		"	pink/brown	med	0			30	27		
" 232	5"	3"	mod		silt	dark brown	fine	30	chert		30	50		
" 233	6"	2"	mod		gravel	gray	course	0	chert		10	59	0.8	108
" 234	6"	2"	fast		gravel	gray	course	0	"		20	51	0.5	100
" 235	4"	4"	fast		silt	gray/brown	med	0	chert		<10	39	0.5	82
" 236	4"	4"	fast		gravel	gray	course	0	volcanics		20	48	0.7	78
" 237	4"	4"	fast		silt	gray/brown	med	0	chert		10	36	0.5	74
" 238	5"	3"	"		"	med brown	fine	0	"		<10	81	0.4	78
" 239	5"	3"	"		"	"	fine	30	"		<10	67	0.5	70
" 240	5"	3"	fast		"	"	med	0	"		170	22	0.3	66
" 241	4"	4"	mod		silt	red brown	med	0	"		<10	24	0.1	92
" 242	4"	4"	fast		gravel	gray/brown	course	0	"		<10	19	0.1	84
" 243	4"	4"	"		silt	med brown	fine	0	"		10	29	0.1	95
83 CAZ 244	4"	4"	fast		silt	med brown	med	0	chert		<10	2	0.1	95

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET · ROCK GEOCHEM SAMPLING

B.C. GOLD SYNDICATE

NTS 104P3/W

SAMPLER Awmack

PROJECT CASSIAR BLACKFOX MTN

LINE

DATE Aug 19-26, 1983

AIR PHOTO No. BC 5681- 156, 98

	SAMPLE NUMBER	LOCATION	ROCK TYPE	ALTERATION	MINERALIZATION	STRIKE / DIP	ADDITIONAL REMARKS	APPARENT WIDTH	TRUE WIDTH	ASSAYS Au.	As.	Ag	Cu
1)	32879 C	# 98	Andesite	Silic brec (ankerite + mariposite)	<1% fg py	Float				20	61		
2)	32880 C	At camp	Chert?	Fe-carbonate	Minor py	120/70S	Flanks 10 m qtz vein		2 m +	<10	14		
3)	32881 C	# 98 (Fox 1)	Milky qtz vein		2-10% tetrahedrite Mal, azurite minor py	045/70 W	Shale wallrock inclusion (high grade sample)	2.60 m horiz	~2.00 m	0.003	0.575	7.28	1.86%
4)	32882 C	# 98 (Fox 1)	Milky qtz vein	Same vein as 32881	Avg 1% tetrahedrite	045/70 W	2) Chip sample. Vein exposed for 23 m horiz, 10 m vert. Tetra near walls	↓	↓	<10	340	11.5	1250
5)	32883 C	# 98	Siltstone	Fe-carbonate (brecciated)	V. minor qtz py	160/60 W	Extensive zone		~10 m	<10	17		
6)	32884 C	# 98	Andesite	Fe-carbonate	Up to 20% mariposite minor chlorite		Same zone as 32883. Fingers into andesite (50% altered)	100 m		<10	780		
7)	32885 C	# 98	Milky qtz veins		limonitic near edges	080/90 ?	Veins (0.3 m - 2.0 m wide) cover 90% of 30 m wide zone. @ Chert/andesite contact	30 m		<10	17		
8)													
9)													
10)													
11)													
12)													
13)													
14)													
15)													
16)													
17)													
18)													
19)													
20)													

APPENDIX II

ANALYTICAL PROCEDURES

GEOCHEMICAL PREPARATION
AND
ANALYTICAL PROCEDURES

1. Geochemical samples (soils, silts) are dried at 50°C for a period of 12 to 24 hours. The dried sample is sieved to -80 mesh fraction through a nylon and stainless steel sieve. Rock geochemical materials are crushed, dried and pulverized to -100 mesh.

2. A 1.00 gram portion of the sample is weighed into a calibrated test tube. The sample is digested using hot 70% $HClO_4$ and concentrated HNO_3. Digestion time = 2 hours.

3. Sample volume is adjusted to 25 mls. using demineralized water. Sample solutions are homogenized and allowed to settle before being analyzed by atomic absorption procedures.

4. Detection limits using Techtron A.A.5 atomic absorption unit.

Copper - 1 ppm
Molybdenum - 1 ppm
Zinc - 1 ppm
*Silver - 0.2 ppm
*Lead - 1 ppm
*Nickel - 1 ppm
Chromium - 5 ppm

*Ag, Pb & Ni are corrected for background absorption.

5. Elements present in concentrations below the detection limits are reported as one half the detection limit, ie. Ag - 0.1 ppm

GEOCHEM PROCEDURES

PPM Antimony: a 1.0 gm sample digested with conc. HCl in hot water bath. The iron is reduced to Fe^{+2} state and the Sb complexed with I^-. The complex is extracted with TOPO-MIBK and analyzed via A.A. Correcting for background absorption 0.2 ppm ± 0.2 Detection limit.

PPM Arsenic: a 1.0 gram sample is digested with a misture of perchloric and nitric acid to strong fumes of perchloric acid. The digested solution is diluted to volume and mixed. An aliquot of the digest is acidified, reduced with Kl and mixed. A portion of the reduced solution is converted to arsine with $NaBH_4$ and the arsenic content determined using flameless atomic absorption.
Detection limit - 1 PPM

PPB Gold: 5 gm samples ashed @800°C for one hour, digested with aqua regia - twice to dryness - taken up in 25% HCl^-, the gold then extracted as the bromide complex into MIBK and analyzed via A.A.
Detection limit - 10 PPB

ASSAY PROCEDURES

Gold: - Fire Assay Method.

0.5 assay ton sub samples are fused in litharge, carbonate and silicious fluxes. The lead button containing the precious metals is cupelled in a muffle furnace. The combined Ag & Au is weighed on a microbalance, parted, annealed and again weighed as Au. The difference in the two weighing is Ag.

APPENDIX III

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

AUDREY E. HEAGY

ACADEMIC

1981 Graduated from Queen's University at Kingston Ontario.
B.Sc. Honors Geology, First Class
Medalist in Geological Sciences

EXPERIENCE

1979 Assistant geologist on traverse, drafting, cooking
Ontario Geological Survey

1980 Detailed geological mapping, reconnaissance, prospecting and sampling on Queen Charlotte Islands, Vancouver Island
J.C. Stephen Explorations Ltd.

1981
1982 Reconnaissance exploration, primarily for tungsten, also molybdenum and base metals, northern B.C. and Yukon
Amax Mineral Exploration Ltd.

1983 Petrographic descriptions, data compilation and minor research related to tungsten, tin and molybdenum deposits in Canada
Geological Survey of Canada

May
1983 to Present - Reconnaissance exploration for precious metals in the Cassiar district, B.C.
J.C. Stephen Explorations Ltd.

FOX 1

FOX 2

LEGEND

- 7 Serpentinite
- 6 Diorite
- 5 Andesitic volcanics, tuff, breccia
- 4 Cherty tuff, tuffaceous chert
- 3 3a Greywacke, limestone
- 2 Siltstone
- 1 Shale, phyllite, slate

- fc Iron-carbonate alteration
- qv Quartz vein
- Cleavage
- Bedding
- 15° Roddy lineation
- Thrust fault
- 7660E Rock geochem sample

GEOLOGICAL BRANCH
ASSESSMENT REPORT

12,493

J.C. STEPHEN EXPLORATIONS LTD.
CASAU SURVEY
FOX CLAIM GROUP
104P/3W
GEOLOGY, GEOCHEMISTRY

0m 200 400
SCALE: 1:8,000 (approx) JULY 1984

MAP I

KENT II
2035 (8)

LINEAR

PHOTO

AIR

BLACKFOX MTN. 2133

1981

1829

1676

1524

FOX 1

Z112 <10,41,0.1,98

20+00N -,-,0.3,55
19+50N -,-,0.7,58
19+00N -,-,0.2,66
18+50N -,-,0.4,11
18+00N -,-,1.1,28
17+50N -,-,0.3,32
17+00N -,-,0.1,28
16+50N -,-,0.3,42
16+00N -,-,0.2,34
15+50N -,-,0.6,56
15+00N -,-,0.4,77
14+50N -,-,0.6,12
14+00N -,-,0.5,24
13+50N -,-,0.5,57
13+00N -,-,0.7,24
12+50N -,-,1.0,38
12+00N -,-,0.9,30
11+50N -,-,0.8,40
11+00N -,-,0.9,35
10+50N -,-,0.1,73
10+00N -,-,0.3,33
9+50N -,-,0.3,20
9+00N -,-,0.5,31
8+50N -,-,0.6,36
8+00N -,-,0.7,55
7+50N -,-,0.5,60
7+00N -,-,0.2,19
6+50N -,-,0.2,18
6+00N -,-,0.2,13
5+50N -,-,0.1,27
5+00N -,-,0.6,56
4+50N -,-,0.4,19
4+00N -,-,0.7,28
3+50N -,-,0.4,34
3+00N -,-,0.5,26
2+50N -,-,0.4,14
2+00N -,-,0.4,17
1+50N -,-,0.5,40
1+00N -,-,0.5,52
0+50N -,-,1.1,52
L.C.P
0+00N -,-,0.7,40

Z235 10,39,0.5,82
Z236 20,45,0.78
Z237 10,36,0.5,74
Z238 10,81,0.4,78
Z239 10,67,0.5,70

3288 <10,340
32882
CAZ 233 10,59,0.8,208
CAZ 234 20,51,0.5,100

Z244 <10,30,0.1,96
Z243 10,29,0.1,95
Z227 <10,22
Z228 <10,27
Z229 20,25
32880 <10,14
CAZ 240 170,22,0.3,68

GEOLOGICAL BRANCH
ASSESSMENT REPORT
12,221

LEGEND

- 6 DIORITE
- 5 SERPENTINITE
- 4 ANDESITE
- 4a TUFF BRECCIA
- 3 CHERT
- 2 SILTSTONE, GREYWACKE
- 1 SHALE
- CAZ225 SILT SAMPLE · Au,As,Ag,Cu
- 32880 ROCK SAMPLE · Au, As, Ag, Cu
- 0+00N-. SOIL SAMPLE · -,-, Ag, Cu

N

J.C. STEPHEN EXPLORATIONS LTD.

CASUA SURVEY
FOX GROUP

GEOLOGY, GEOCHEMISTRY

100 50 0 100 200 300 400

Scale: 1:5,000 Sept. 1983

MAP I