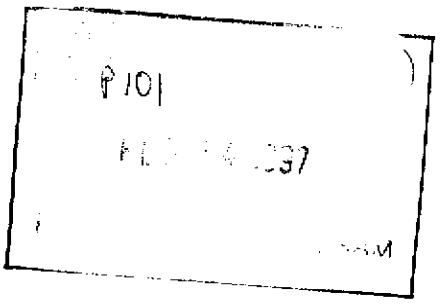
BRITISH COLUMBIA

PROSPECTORS ASSISTANCE PROGRAM

MINISTRY OF ENERGY AND MINES

GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR:	1996/1997
REPORT #:	PAP 96-47
NAME:	ROBERT NOWLIN



TECHNICAL REPORT

for the

PROSPECTORS ASSISTANCE PROGRAM

for

YEOWARD AND CHERRY CREEK AREAS

Vernon Mining Division

COVERING: Frosty I & II
Running Bear I & II
Silver Lode I & II

LOCATION: Lat: 50 10 Long: 118 20
NTS 82L 1W
70 kms. East of Vernon

ROBERT NOWLIN
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CHERRYVILLE, B.C.
VOE 2GO

JANUARY 22, 1997

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INTRODUCTION

During the course of the summer and fall of 1996, prospecting, soil sampling and trenching was carried out in accordance with grant requirements. Entailed in this report are the results of work completed.

SUMMARY

During 1996, specifically during the period of May 25 to Oct. 23, I completed a partial soil analysis on both Frosty I & II and Running Bear I & II, claims sampled mineralized vein exposures and prospected by dip needle and ground search in and around the Yeoward Creek area. In addition, on the Silver Lode claims approximately 50M of trench was excavated to expose bedrock by a Case 4 WD backhoe. 33 man days of work were performed at this task.

LOCATION

The Frosty, Running Bear and Silver Lode claims are all located in the Monashee Mountains approximately 70 kms. East of Vernon, Access to Frosty I & II is via Hwy. 6 East of Vernon to South Fork, Yeoward Creek logging roads, 5 km. marker.

Running Bear claims are on the same road at km. 7.

Access to Silver Lode I & II is also East of Vernon via Hwy. 6, turning on to North Fork Road (in Cherryville), Currie and Bell Roads to the 18 km. marker. All claims are within 1 1/2 hour drive from Vernon.

REGIONAL GEOLOGY

The Keefer Lake area is located in the SE corner of the Thompson-Shuswap-Okanagan 1:250,000 map sheet by A.V. Okulitch (GSC), 1972-1979. The oldest rocks in the area are quartzites, marbles and schists of the Proterozoic and Paleozoic Shuswap Metamorphic complex, unconformably overlain by fine grained clastics, marbles and greenstones of the Upper Paleozoic,

Thompson Assemblage. These, in turn, are unconformably overlain by fine-grained plastics, andesites, marbles and sericite schists of the upper Triassic, Slocan and Nicola Groups. Granodiorites of the Jurassic, Nelson and Valhalla Batholith intrude all the above.

Structurally the area has seen multiphase folding in the Shuswap rocks, at least two phases of folding in the Thompson Assemblage and probably two phases in the Slocan and Nicola Groups.

Faulting occurs throughout the area but no significant offsets have been determined.

Metamorphic grade varies from amphibolite facies for Shuswap rocks, mid to lower greenschist facies for Thompson Assemblage rocks and mid to upper greenschist facies for Slocan and Nicola Group rocks.

PROPERTY GEOLOGY

All rock types on claims conform within the widely held expectants of the Thompson-Nicola Groups. Mineralization is being explored near a steep dipping contact between pyrite enriched reworked greenstones and a shale carbonate sequence.

SOIL GEOCHEMISTRY

FROSTY I & II

At I.P. for Frosty claims a grid measuring 150 M S.W., 150 M N.E. by 500M S.E. along common location line was established. A total of 30 soil samples were collected at 100M intervals along lines spaced at 50M intervals from common claim boundaries. These samples were obtained and sent in at two different intervals to determine if results would warrant its expenditure. Samples were obtained from the "B" horizon where possible, marked and paper bagged, then shipped to ACME ANALYTICAL LABS LTD. in Vancouver for sieving and analysis.

RESULTS

A significant anomaly of arsenic (Ag, Au) at least 300M in length by 100M in breadth was discovered. This anomaly is plotted on sample location map (see Appendix C).

FOLLOW UP

A work approval is currently being requested to allow for the construction of a 300M trail to expose bedrock for sampling purposes of the geochem anomaly.

RUNNING BEAR I & II

A grid measuring 200 M N.W. of I.P. by 400M N.E. was established on claims. A total of 10 soil samples were obtained at 100M square intervals, which were handles in the same manner as those from Frosties.

RESULTS

Although there was slight anomalies of base metals in some samples, gold and silver were generally not found to be significant.

DAILY SUMMARY (Yeoward Creek)

RE: Prospecting and results of Yeoward Creek program daily traverses are plotted on claim map (APPENDIX B).

DAY 1: Traversing the Running Bear Group of claims in a N.E. direction I encountered numerous weathered quartz-carbonate fragments. Under the roots of a blown-down tree I obtained sample no. R-B 2 from an oxidized quartz-carbonate-calcite vein hosted in greenstones to determine if there was any Au anomalies (soil grid sampled on Day 16).

DAY 2: Investigating pyrite enriched greenstones and mineralized quartz boulders on upper end of Yeoward unfortunately was not successful due to heavy glacial till. Since greenstones were observed on road cut and shales in adjacent stream, it was considered necessary to determine if creek would contain potential for placer. On Day 13 I returned and panned creeks in the general area. At panning site no. 2 a small but significant amount of sharply edged gold was found. Since it is assumed this gold hasn't been transported far because of its texture and is within close proximity to possible mineralized contact, this area will be further explored as time permits.

DAY 3: Traversing E.N.E. of Frosty Group of claims I encountered an area of quartz stringers in greenstones with some noticeable chalcopyrite (150M out). Nothing further afield of significance was observed due to heavy till overburden.

DAYS 4 & 5: Both days were used for taking samples and removal of upper road cut material that had sluffed to acquire a better view of the inplaced intermediate volcanics. A sequence of veining formation was consequently observed

from carbonates being exuded out of small fissures in the volcanics to bluish and then mineralized white quartzes. Sample no. F-3 was obtained at this site. Sample no. F-4 was obtained across a 1 meter vein of mineralized quartz-carbonate approximately 100 meters above sample F-4, sample f-8 was a piece of mineralized and relatively unweathered calcite from same vein. All samples were obtained on a shale-greenstone contact permeated by numerous volcanic fingers except sample F-2 which was a quartz vein hosted in greenstones.

DAY 7: I randomly checked for any magnetic anomalies with a dip needle. Only 3 sites with a distinct variance were encountered and plotted on map.

DAY 10: Presumed continuation of aforementioned contact was not observed due to overcapping by greenstones, no mineralization was observed between Frosty and Running Bear claims.

DAY 13: A geological area of similarity to Silver Lode claims was discovered comprising of reworked greenstones enriched with arseneopyrite. Since a float sample of high grade ore similar to the aforementioned mineralization, but with the added benefit of significantly more chalcopyrite, this area deserves further exploration.

DAYS 14, 15, 16 & 31 were spent acquiring soil samples.

SOIL GEOCHEMISTRY

SILVER LODE I & II

After researching past exploratory work performed by Cominco Mines Ltd. covering the Silver Lode claims area (after grant application) it was deemed soil sampling and analysis wasn't necessary since soil geochem was available from past assessment reports; further anomalous soil locations, (from 208 samples) rock sample locations (from 239 samples) were geologically mapped.

TRENCHING

A work approval was applied for and granted (permit no. MX-4-257) for removal of overburden in an area of magnetic anomalies.

Shown on sample location map (Appendix E) is the location of a 40M trench exposing bedrock 75M W. of sample site C 2 & 3. In addition at increments of 25M 2 other holes further W. were also dug. Also one 4M trench was excavated 5M E. of sample location C 2 & 3.

RESULTS

No quartz veining was encountered over the magnetic anomalies at trench site A or other holes W., although slight alterations in shales were noticeably concurrent with shales within close proximity of those at sample site C-2 & 3. Sample no. C-6 was an altered substance found in vein along N. side of hole. Trench A exposed slightly altered shales S. of the black carbonate at sample site C-8. N. of sample site C-8 the softer shales had a distinct bluish colouration, sample no. C-7 was obtained along a 3M stretch. Alterations around exposed vein was assayed to determine if bluish colouration was due to molybdenum (C-2). A vein itself was chip sampled across its 40 centimeter width (C-3). Sample no. C-5 was obtained across a 10 centimeter vein.

CONCLUSIONS

Aerial topographical appearance suggests that this could be the apex of a much larger but partially buried structure. Also a shallow layering of relatively unmineralized shales would conform to the fact Cominco's soil sampling program did not detect an anomaly in the immediate vicinity the unusual magnetic similarities over the highly mineralized veining and the lower grade shales, the similar colouration around the perimeter of vein and the material in trenches, also the similarities of assay results along edges of quartz vein (Assay C-2, APPENDIX E) and what could be mineralized haloing above a possible Au, Ag enriched quartz seam. Additionally, sample no. C-6 could be an exposed weathered alteration of the continuence of highly anomalous veining of site C-2, 3, & 5. Also, due to the adverse weather conditions at the time the excavation was being carried out it was necessary to pull the backhoe out of the area before the potential of sample site C 5 was fully explored. Therefore, it was considered necessary to apply for work approval to core drill at bottom of trench A, and further excavation of sample site C-5. Shoveling material by hand at this site, I uncovered several narrow mineralized veins paralleling one another. Dependent upon outcome, permission was requested for possible bulk sampling of up to 500 tonnes.

DAILY SUMMARY (Silver Lode)

RE: Prospecting and results of Silver Lode program daily traverses are plotted on claim map (see APPENDIX D).

Several days were spent prospecting claims and general areas for geological environments with similarities to that of known values. Unfortunately, hampered by heavy overburden most of this work was confined to road cut exposures.

DAY 6: New road construction along a spur of the old mine trail exposed a sequence of enriched greenstones, shales and hydrothermal shale alterations also hosting several quartz seams, interesting samples were obtained and sent in for analysis. Sample C-9 was a sample of pyrite enriched altered greenstone, sample C-4 was a sugary quartz (textured) hosted in an area of hydrothermally altered shales and c-10 was a sample of a quartz vein hosted in shales.

DAY 8: A dip needle showed readings of a definite pattern of a magnetic anomaly over top of and continuing on strike East and West of exposed quartz vein. After determining the best way of accessing bedrock for testing was by removal of the material above it, a work application was submitted into the areas regional mining office. After conferring with forestry a work permit was obtained. Recorded on the daily work reports are the tasks performed, necessary to conform within W.C.B. and new forestry guidelines.

DAY 19: An area containing several ironized quartz seams was discovered in the proximity of an intermediate type volcanic intrusives. Rather than sampling the highly weathered veining it was determined to be more practical to research old claim titles to see if any soil sampling programs were ever recorded on this property.

BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM (continued)

B. TECHNICAL REPORT

- One technical report to be completed for each project area.
- **Refer to Program Requirements/Regulations, section 15, 16 and 17.**
- If work was performed on claims a copy of the applicable assessment report may be submitted in lieu of the supporting data (*see* section 16) required with this TECHNICAL REPORT.

Name ROBERT NOWLIN Reference Number 96-97-P101

LOCATION/COMMODITIES

Project Area (as listed in Part A) YEOWARD CREEK MINFILE No. if applicable N/A

Location of Project Area NTS 82L 1W Lat 50 10 Long 118 20

Description of Location and Access CLAIMS ARE LOCATED 70 Kms. EAST OF VERNON, VIA Hwy. 6, SOUTH FORK, YEOARD CREEK ROADS. THE FROSTY AND RUNNING BEAR GROUPS OF CLAIMS AT THE 5$7 Km MARKER, RESPECTIVELY, ON YEOWARD CREEK ROAD.

Main Commodities Searched For Au, Ag & Cu.

Known Mineral Occurrences in Project Area "SILVER BELL" was an active mine at the turn of the century and is located aprox.6 Km. North east of this location. It was Ag, Au, Pb deposit.

WORK PERFORMED REFER TO TECHNICAL REPORT

1. Conventional Prospecting (area)
2. Geological Mapping (hectares/scale)
3. Geochemical (type and no. of samples)
4. Geophysical (type and line km)
5. Physical Work (type and amount)
6. Drilling (no,. holes, size, depth in m, total m)
7. Other (specify)

SIGNIFICANT RESULTS

Commodities Au,Ag, Pb Cu Claim Name FROSTY 1&11

Location (show on map) Lat 50 10 Long 118 20 Elevation 950 M.

Best assay/sample type ROCK SAMPLE 7.38 oz/t Ag 882 ppb Au 33111 ppm Pb 906 ppm Cu. (sample no F-4)

Description of mineralization, host rocks, anomalies MINERALIZATION IS HOSTED IN A QUARTZ-CARBONATE VEINING ALONG AN ALTERED GREENSTONE, SHALE CONTACT.

Supporting data must be submitted with this TECHNICAL REPORT

BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM (continued)

B. TECHNICAL REPORT

- One technical report to be completed for each project area.
- **Refer to Program Requirements/Regulations, section 15, 16 and 17.**
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Name ROBERT NOWLIN Reference Number 96-97-P101

LOCATION/COMMODITIES

Project Area (as listed in Part A) SILVER LODE MINFILE No. if applicable N/A

Location of Project Area NTS 82L 1W Lat 50 10 Long 118 20

Description of Location and Access CLAIM IS LOCATED 70 Kms. EAST OF VERNON, VIA Hwy. 6, NORTH FORK, CURRIE, BELL ROADS. THE SILER LODE GROUP OF CLAIMS ARE LOCATED AT THE 18 Km. MARKER ON BELL Rd.

Main Commodities Searched For Au, Ag

Known Mineral Occurrences in Project Area "SILVER BELL" was an active mine at the turn of the century and is located aprox. 2 Km. south of this loation. It was a Ag Au, Pb deposit.

WORK PERFORMED NOTED IN TECHNICAL REPORT

1. Conventional Prospecting (area) ~~aprox. 2 sq. kms.~~
2. Geological Mapping (hectares/scale)
3. Geochemical (type and no. of samples)
4. Geophysical (type and line km)
5. Physical Work (type and amount)
6. Drilling (no. holes, size, depth in m, total m)
7. Other (specify)

SIGNIFICANT RESULTS

Commodities Ag, Au, Pb, Cu, Sb Claim Name SILVER LODE

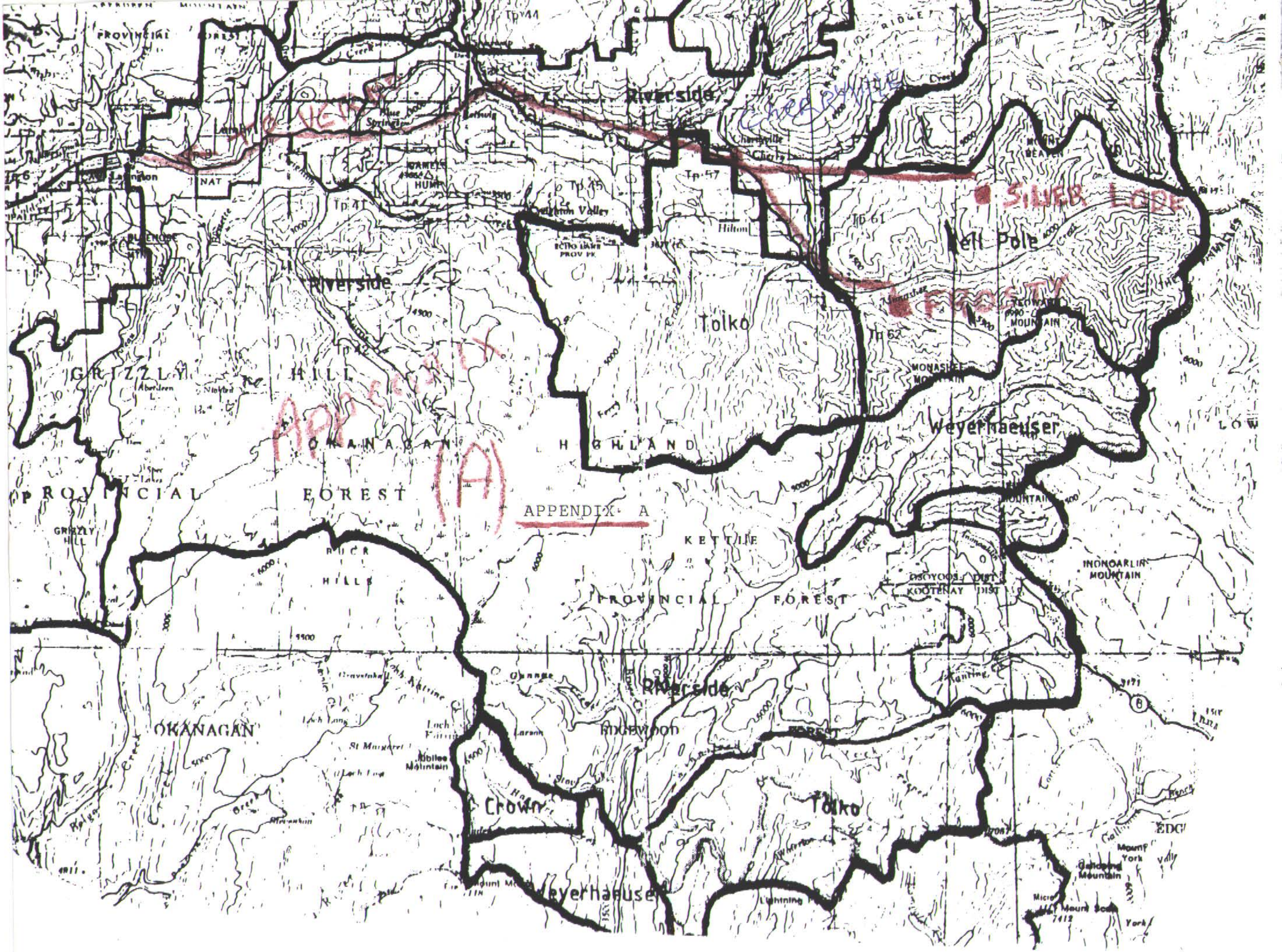
Location (show on map) Lat 50 10 Long 118 20 Elevation 1650 M.

Best assay/sample type ROCK CHIP SAMPLE 146.90 oz/t Ag, 2755 ppb Au, 13.66 % Pb .480 % Sb, .365 % Cu., .08 % Zn. (sample no. C 5)

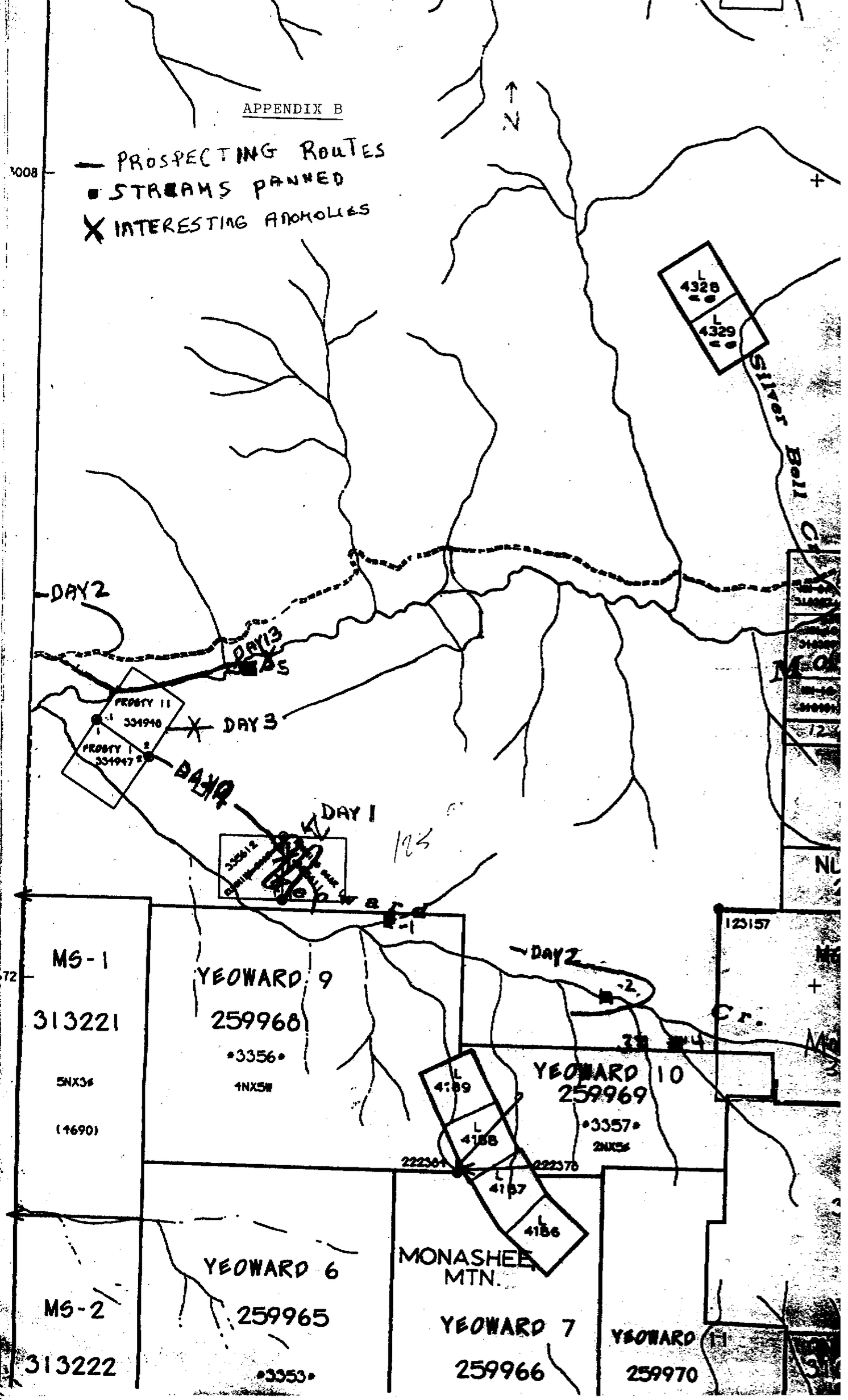
Description of mineralization, host rocks, anomalies MINERALIZATION IS HOSTED IN QUARTZ VEINING ALONG A PYRITE ENRICHED GREENSTONE AND SHALE CONTACT.

Supporting data must be submitted with this TECHNICAL REPORT

Information on this form is confidential for one year from the date of receipt subject to the provisions of the *Freedom of Information Act.*

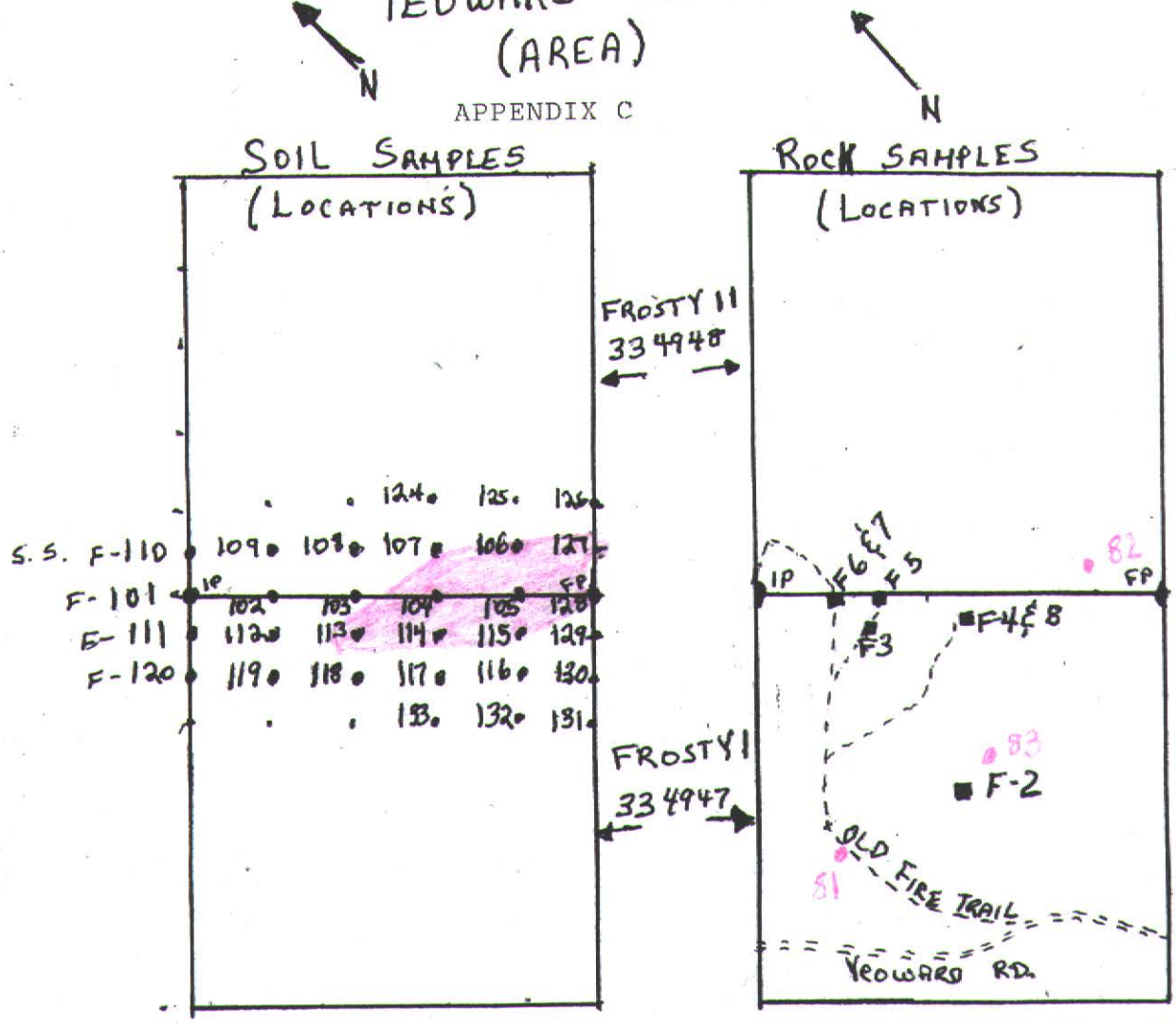


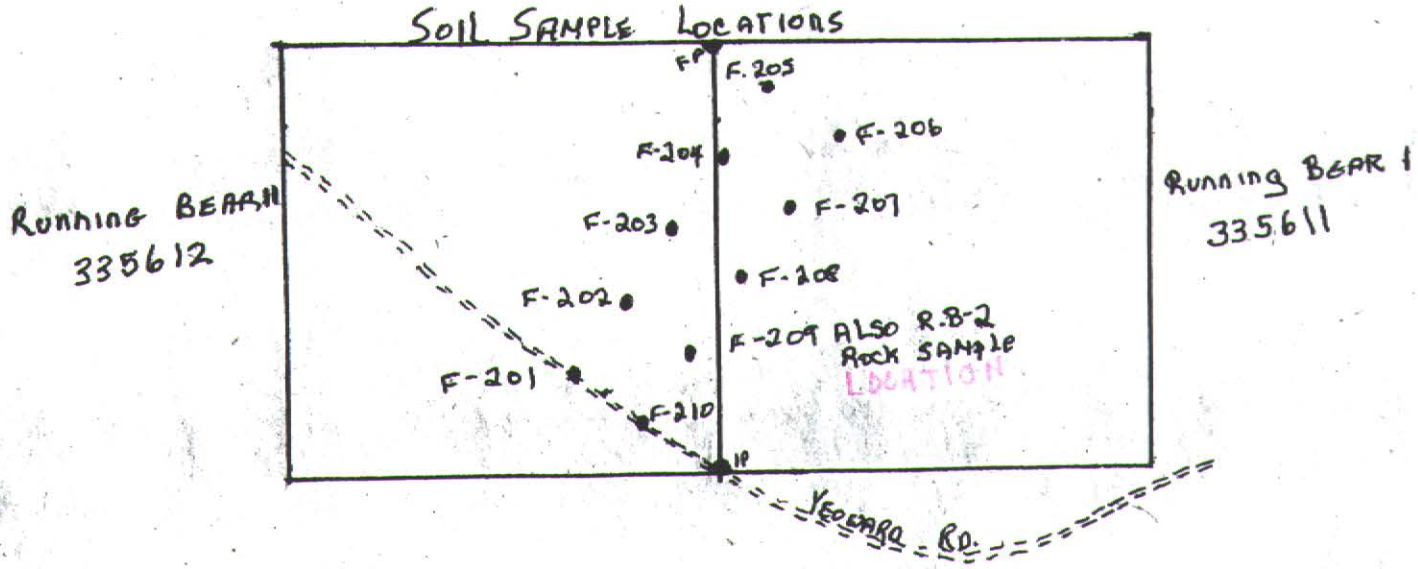
APPENDIX A
Riverside
Tolko
Nell Pole
Weyerhaeuser
Crown
SILVER LODE
FROSTY
CHERRYVILLE
APPENDIX
(A)
GRIZZLY HILL
OKANAGAN HIGHLAND
PROVINCIAL FOREST
KETTLE
OKANAGAN
MONASHEE MOUNTAIN
INONOAKLIN MOUNTAIN
OSOYOOS DIST
KOOTENAY DIST
Jubilee Mountain
Edgewood
Tp 41
Tp 42
Tp 45
Tp 57
Tp 61
Tp 62

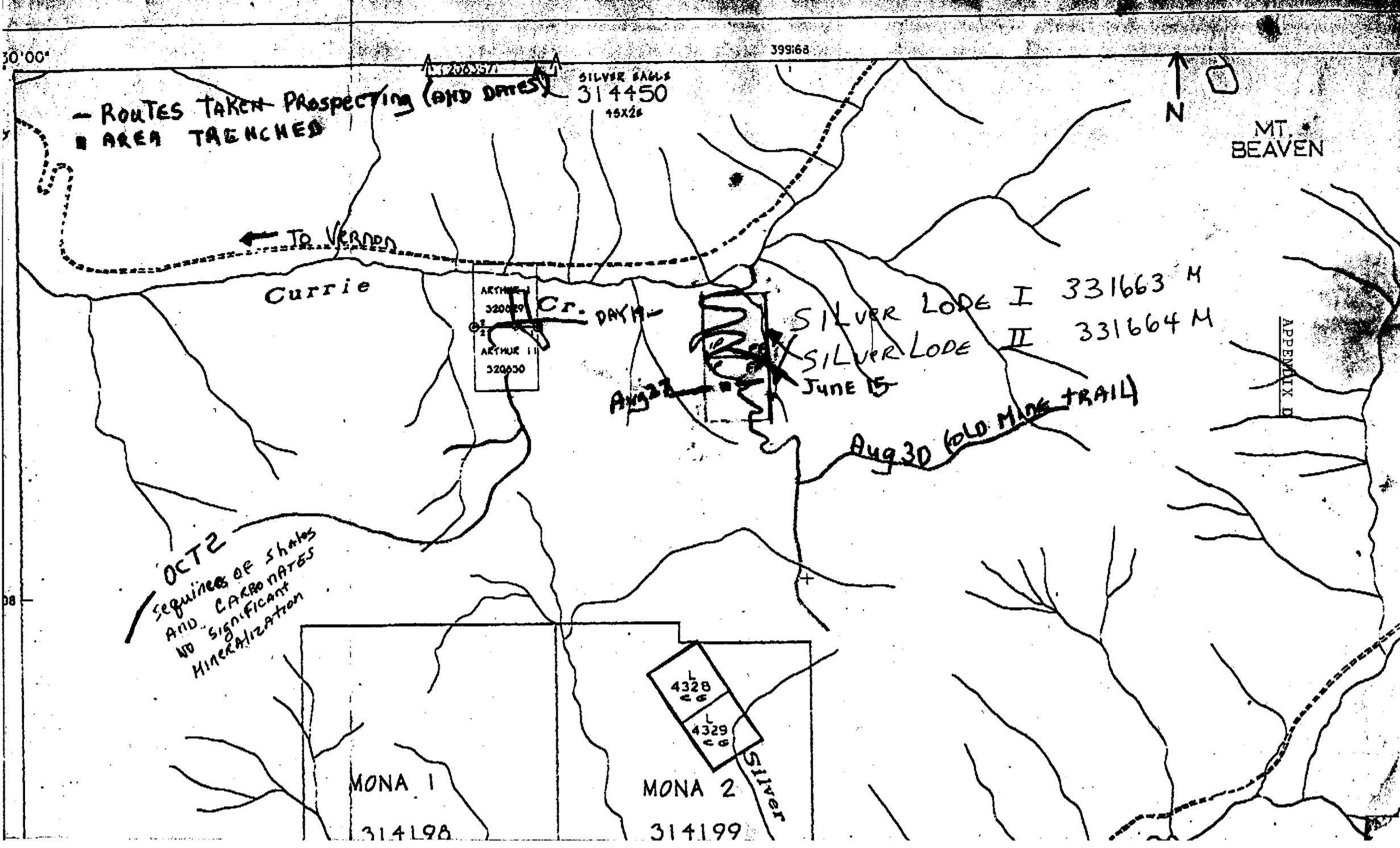

APPENDIX B
PROSPECTING ROUTES
STREAMS PANNED
INTERESTING ANOMOLIES
N
DAY 2
DAY 13
DAY 3
DAY 4
DAY 1
FROSTY 11
331940
FROSTY 1
331947
L 4328
L 4329
Silver Bell Cr.
MS-1
313221
5NX3E
(4690)
YEOWARD 9
259968
3356
1NX5W
YEOWARD 10
259969
3357
2NX5E
L 4189
L 4188
L 4187
L 4186
222364
222376
MONASHEE MTN.
YEOWARD 7
259966
YEOWARD 6
259965
3353
MS-2
313222
YEOWARD 11
259970
123157

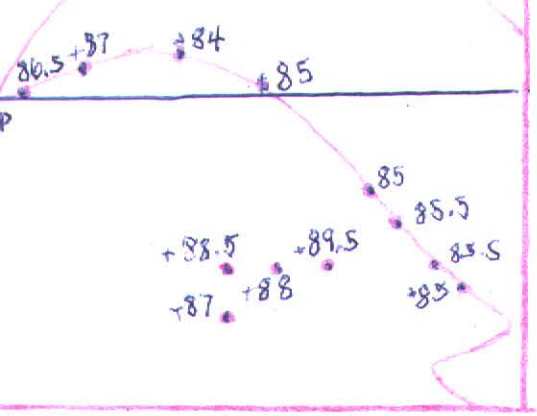
YEOWARD CLAIMS (AREA)

APPENDIX C






— ROUTES TAKEN PROSPECTING (AND DATES)
■ AREA TRENCHED
SILVER EAGLE
314450
15X26
N
MT. BEAVEN
TO VERNON
Currie
ARTHUR I
320029
ARTHUR II
320030
Cr.
DAY M
SILVER LODE I 331663 M
SILVER LODE II 331664 M
June 15
Aug 22
Aug 30 GOLD MINE TRAIL
APPENDIX D
OCT 2
SEQUENCES OF SHALES AND CARBONATES NO SIGNIFICANT MINERALIZATION
L 4328
L 4329
MONA 1
314198
MONA 2
314199
Silver



INSERT

APROX LOCATION OF DIP NEEDLE READINGS

SILVER LODE

APPENDIX E

N

TO CURRIE CR LOGGING RD

OLD MINE TRAIL

LEGEND

1 SAMPLE SITES

■ holes

— TRENCH A

C9 C4

C10

FP

IP

SILVER LODE 2
674606M

C2 C3

C7

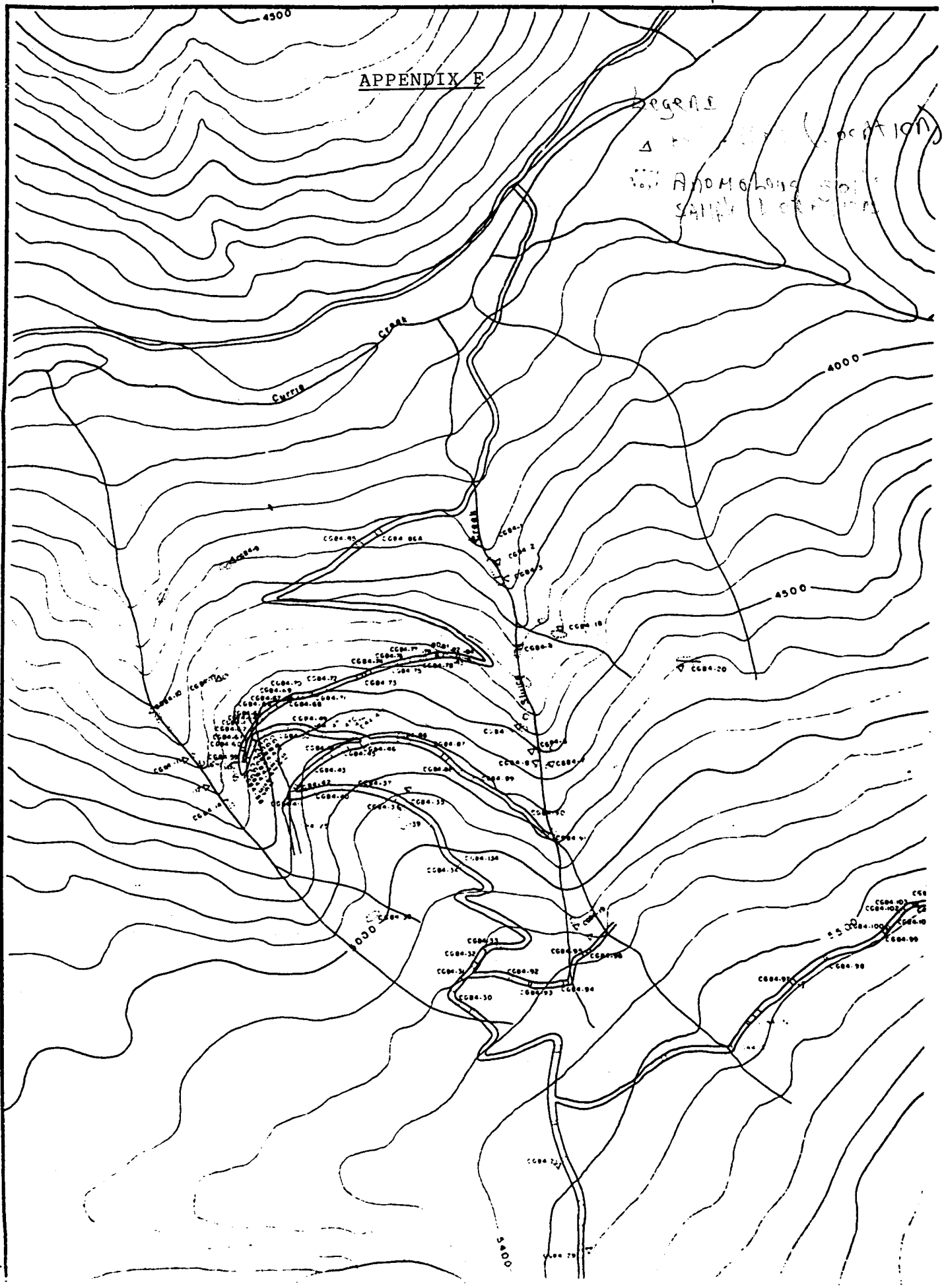
SILVER LODE I
674605M

C6 C8 C5

NOT EXACTLY to SCALE

CURRIE CREEK AREA.

APPENDIX E



ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL EXTRACTION-ANALYSIS CERTIFICATE

APPENDIX G

Florence MacDonald File # 96-4194

S.S. A C-14 R.R. #1, Cherryville BC V0E 2G0

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	Au+ ppb
F-101	1.7	15.1	17.8	174.3	345	25	6	856	2.12	51.3	6	3	40	.91	.3	.3	30	.29	.155	9	14	.28	157	.10	4	2.87	.02	.10	<2	<.2	160	.3	<.2	8.3	4
F-102	1.6	12.4	29.9	176.8	400	16	7	1003	1.88	25.6	<5	2	58	1.31	<.2	.4	25	.40	.165	12	16	.32	185	.06	6	1.73	.01	.12	<2	<.2	84	<.3	<.2	7.1	14
F-103	1.1	15.3	29.1	260.5	1934	32	9	588	2.63	77.1	<5	3	39	1.20	.8	.3	31	.28	.092	12	17	.39	146	.09	5	2.93	.02	.12	<2	<.2	57	<.3	<.2	7.6	11
F-104	1.3	13.6	110.8	337.4	3125	19	9	1848	2.47	330.6	<5	3	43	2.30	1.3	.2	29	.30	.072	13	14	.33	212	.10	2	3.37	.02	.08	<2	<.2	61	.3	<.2	8.9	7
F-107	.8	17.3	14.7	157.7	287	30	8	466	2.30	99.9	<5	2	41	.70	.4	.3	32	.34	.114	11	16	.30	142	.10	4	3.37	.03	.14	<2	<.2	40	.5	<.2	6.5	21
F-108	1.5	15.6	17.8	119.5	492	24	7	265	2.48	42.6	<5	3	36	.49	.7	.3	31	.28	.096	12	18	.32	104	.08	2	2.72	.02	.09	<2	<.2	41	<.3	<.2	7.6	5
F-111	3.3	33.4	16.8	161.3	881	24	8	240	2.69	51.0	<5	3	22	.99	1.5	.2	31	.14	.040	13	17	.42	98	.04	<2	1.27	.01	.07	<2	<.2	12	1.1	<.2	3.6	13
F-112	1.5	29.1	18.0	125.8	353	26	9	758	2.68	81.2	<5	3	53	.90	.7	.1	29	.39	.068	16	18	.50	142	.04	3	2.04	.01	.10	<2	<.2	23	.7	<.2	5.1	6
F-113	3.8	50.5	16.4	211.8	543	33	11	285	3.67	301.4	<5	2	22	1.02	1.2	1.0	43	.15	.045	17	22	.72	109	.02	<2	1.89	.01	.10	<2	<.2	11	.8	.4	5.2	60
F-114	1.2	16.6	64.1	179.2	1493	11	8	691	2.84	142.8	<5	4	33	.89	.9	.3	26	.24	.041	22	12	.57	103	.05	2	2.21	.01	.07	<2	<.2	32	<.3	<.2	6.1	17
F-115	.8	10.3	34.5	86.4	2302	13	6	521	2.47	115.4	<5	4	42	.35	<.2	.3	30	.41	.087	12	10	.19	94	.18	3	5.29	.03	.05	<2	<.2	79	.3	<.2	11.1	5
F-116	1.2	22.1	118.0	147.8	644	18	10	396	2.98	47.6	<5	6	80	1.08	.8	.3	37	.50	.060	34	19	.37	255	.14	3	4.57	.03	.10	<2	<.2	72	.5	<.2	9.4	12
RE F-115	.8	10.1	32.4	87.0	2304	14	6	541	2.55	121.8	<5	5	42	.36	<.2	.4	31	.43	.091	11	11	.19	97	.18	3	5.43	.03	.06	<2	<.2	82	<.3	<.2	11.0	16
F-117	.7	11.4	32.5	174.5	1925	13	5	554	2.03	32.6	<5	4	61	.81	.2	.3	27	.35	.074	13	12	.22	173	.15	5	3.87	.04	.07	<2	<.2	53	<.3	<.2	9.2	11
F-118	.7	11.1	12.0	67.6	511	14	7	459	2.23	59.5	<5	3	41	.21	<.2	.2	30	.28	.053	14	14	.28	156	.12	<2	3.70	.03	.08	<2	<.2	21	<.3	<.2	8.0	1
F-120	.4	10.1	22.3	72.4	961	14	5	247	2.02	77.9	<5	3	46	.28	.2	.2	29	.36	.148	14	11	.25	129	.13	3	3.79	.03	.09	<2	<.2	43	<.3	<.2	8.7	16
F-203	.6	35.3	7.0	189.2	446	33	15	641	3.04	16.8	<5	2	33	.64	.2	.1	56	.29	.145	9	30	.94	205	.10	<2	2.51	.01	.17	<2	<.2	30	<.3	<.2	7.0	2
F-204	.7	25.1	23.0	121.6	696	28	9	485	2.37	31.0	<5	1	59	.55	.3	.3	27	.43	.115	10	12	.33	215	.11	5	2.98	.03	.10	<2	<.2	46	.9	<.2	7.5	1
F-205	1.7	64.0	13.8	193.5	312	73	21	474	3.79	21.8	<5	3	27	.60	1.6	<.1	53	.19	.056	14	33	.89	218	.10	<2	3.21	.01	.09	<2	.2	58	<.3	<.2	9.5	1
F-206	1.7	39.3	5.9	99.4	256	35	11	292	2.93	30.7	<5	3	16	.33	1.3	.2	43	.11	.031	12	32	.88	74	.04	<2	1.73	.01	.07	<2	<.2	<10	.5	<.2	4.7	4
F-209	1.3	59.3	20.0	131.6	2264	33	18	567	3.33	47.5	<5	2	56	.66	1.4	<.1	57	.52	.094	11	33	.76	157	.07	2	2.47	.01	.13	<2	<.2	106	.6	<.2	6.4	7
STANDARD	25.4	129.6	109.9	276.1	1949	33	17	1047	4.36	81.4	22	18	61	2.27	8.8	21.2	78	.72	.109	17	58	1.21	265	.15	26	2.43	.05	.69	20	2.5	539	.5	2.3	6.9	54

Standard is STANDARD D2/MG-500/AU-S.

ICP - 15 GRAM SAMPLE IS DIGESTED WITH 90 ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 100 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL. SOLUTION ANALYSED DIRECTLY BY ICP. MO CU PB ZN AG AS AU CD SB BI TL HG SE TE AND GA ARE EXTRACTED WITH MIBK-ALIQUAT 336 AND ANALYSED BY ICP. ELEVATED DETECTION LIMITS FOR SAMPLES CONTAIN CU,PB,ZN,AS>1500 PPM,Fe>20%.

- SAMPLE TYPE: SOIL AU+ - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 4 1996 **DATE REPORT MAILED:** Sept 18/96 **SIGNED BY.** C. Leong .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL EXTRACTION-ANALYSIS CERTIFICATE

APPENDIX G

Florence MacDonald File # 96-6075

S-5 C-14 R.R. #1, Cherryville BC V0E 2G0

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	Au+ ppb
S.S. 105	1.6	23.8	107.6	300.0	3515	22	7	659	3.19	286.8	5	1	36	.99	1.3	.2	40	.36	.114	20	13	.41	119	.13	7	3.58	.03	.08	2	<.2	177	.5	.5	13.4	22
S.S. 106	1.7	44.8	52.3	125.9	1848	28	1	413	3.73	131.3	6	4	37	.45	1.4	<.1	41	.42	.023	20	6	.73	87	.04	<2	2.01	.01	.05	<2	<.2	49	.8	<.2	8.6	27
S.S. 124	1.0	18.5	19.0	84.6	450	19	3	319	2.33	67.1	13	1	45	.23	.4	.1	35	.43	.075	8	3	.25	189	.15	<2	3.36	.02	.07	<2	<.2	93	.4	.2	10.3	5
S.S. 125	1.0	11.9	18.5	52.4	279	16	7	412	2.65	7.8	<5	<1	45	.24	.4	.2	37	.42	.095	11	20	.28	161	.14	16	4.16	.02	.07	<2	<.2	92	<.3	<.2	12.6	1
S.S. 126	1.5	27.4	18.3	68.3	669	15	2	785	2.43	7.3	6	4	22	.21	.4	.1	38	.24	.158	12	5	.30	154	.16	<2	3.83	.02	.07	<2	<.2	99	.3	<.2	12.7	3
S.S. 127	1.2	15.6	104.4	149.4	767	18	6	899	2.88	167.3	<5	3	38	.77	.8	.1	39	.38	.071	11	6	.28	149	.14	<2	3.12	.02	.07	2	<.2	95	<.3	<.2	10.9	56
S.S. 128	2.1	29.3	35.7	151.8	448	18	<1	305	3.21	140.1	13	7	19	.57	1.9	<.1	41	.19	.034	12	<1	.54	85	.08	<2	2.42	.01	.09	<2	<.2	44	.3	<.2	12.6	13
S.S. 129	1.3	12.4	33.0	120.8	888	14	6	762	2.30	60.9	<5	1	58	.29	.5	.1	31	.46	.091	10	16	.24	212	.12	10	3.85	.02	.06	2	<.2	101	<.3	<.2	.8	2
S.S. 130	1.5	20.5	34.3	68.1	1604	13	2	1369	2.27	80.8	9	<1	41	.42	.6	.2	30	.46	.089	11	1	.26	168	.13	<2	3.08	.03	.06	<2	.2	94	1.2	.2	13.5	6
RE S.S. 129	1.3	12.7	30.7	122.9	811	14	6	772	2.34	57.6	7	<1	58	.28	.4	.1	32	.46	.094	11	16	.24	213	.12	11	3.91	.02	.06	<2	<.2	115	<.3	<.2	<.5	4
S.S. 131	.7	24.3	38.0	110.2	788	19	1	264	2.29	134.7	14	2	42	.73	.7	.1	24	.51	.021	10	1	.26	152	.09	<2	3.01	.04	.10	<2	<.2	57	.5	<.2	9.9	13
S.S. 132	1.0	12.0	18.1	219.5	500	17	4	1166	1.67	35.9	<5	1	38	1.46	.4	.2	23	.33	.109	7	10	.21	160	.10	6	2.23	.03	.10	<2	<.2	79	.4	.2	8.3	3
S.S. 133	3.6	33.4	21.6	146.2	597	27	<1	290	2.45	44.2	15	1	25	.50	2.4	.2	27	.19	.047	19	2	.31	130	.02	<2	1.30	.01	.09	<2	<.2	32	1.1	<.2	4.5	7
S.S. F-109	2.5	21.9	18.1	101.6	293	32	7	162	2.89	74.5	<5	2	37	.41	1.4	.1	24	.19	.018	21	25	.49	162	.03	15	1.69	.01	.10	<2	<.2	48	.9	<.2	4.5	13
S.S. F-110	1.7	18.9	15.4	94.2	256	26	5	234	2.52	37.6	<5	1	23	.24	1.2	.1	32	.16	.030	14	26	.53	88	.05	11	1.54	.01	.07	<2	<.2	62	.5	<.2	4.4	7
S.S. F-119	1.0	17.5	31.2	95.3	494	18	4	205	2.49	53.8	<5	1	33	.22	.7	<.1	34	.20	.032	16	23	.44	109	.06	13	2.03	.01	.06	<2	<.2	56	.3	<.2	6.0	22
S.S. F-201	1.3	20.0	16.6	97.7	574	29	6	349	2.59	39.6	<5	<1	18	.45	.8	.2	35	.15	.176	12	27	.47	163	.11	14	2.81	.02	.08	<2	<.2	78	.4	<.2	12.4	2
S.S. F-202	.3	35.8	6.3	128.8	398	26	10	262	1.73	13.8	<5	1	29	.44	.2	<.1	31	.27	.102	5	14	.45	101	.10	2	1.82	.03	.19	<2	<.2	40	<.3	<.2	5.7	4
S.S. F-207	5.4	112.5	16.6	365.2	1228	94	33	828	6.43	18.9	<5	<1	30	2.12	3.8	.1	51	.34	.093	15	42	.95	131	.11	33	2.67	.01	.07	<2	<.2	103	2.1	.3	6.5	3
S.S. F-208	6.9	163.6	24.7	688.5	1279	154	34	459	6.02	110.4	<5	<1	41	2.88	4.2	.2	79	.38	.173	21	55	.87	99	.12	35	3.66	.02	.09	<2	.2	83	1.4	.7	<.5	10
S.S. F-210	1.0	57.7	19.0	140.5	988	34	15	350	3.38	56.6	<5	<1	45	.42	1.2	.2	44	.30	.098	22	35	.63	147	.13	23	3.85	.03	.12	<2	.2	85	.5	.3	13.0	6
STANDARD D2	26.9	131.9	102.1	291.5	2196	35	17	1057	4.45	64.4	11	17	53	2.04	10.0	20.0	77	.70	.108	21	72	1.23	252	.13	50	2.31	.04	.66	21	2.6	474	.6	2.7	7.4	51

Standard is STANDARD D2/HG-500/AU-S.

ICP - 15 GRAM SAMPLE IS DIGESTED WITH 90 ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 300 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL. SOLUTION ANALYSED DIRECTLY BY ICP. MO CU PB ZN AG AS AU CD SB BI TL HG SE TE AND GA ARE EXTRACTED WITH MIBK-ALIQUAT 336 AND ANALYSED BY ICP. ELEVATED DETECTION LIMITS FOR SAMPLES CONTAIN CU,PB,ZN,AS>1500 PPM,Fe>20%.

· SAMPLE TYPE: SOIL AU+ - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. Samples beginning 'RE' are reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 19 1996 DATE REPORT MAILED: Nov 30/96 SIGNED BY..... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Data K FA

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

APPENDIX H

GEOCHEMICAL ANALYSIS CERTIFICATE

Florence MacDonald File # 96-5512

S-5 C-14 R.R. #1, Cherryville BC V0E 2G0

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
C-5	6	3923	22363	729	180.5	11	1	99	1.21	102	<5	2	2	16	47.3	4874	125	3	.02	.008	<1	37	.01	15	<.01	<3	.07	.04	.02	12	2755
C-6	29	230	4541	393	176.2	95	11	15013	9.78	23	24	<2	2	260	11.8	180	<2	83	5.29	2.022	82	65	.05	354	<.01	<3	1.92	.06	.20	4	87
C-7	62	84	107	283	12.3	67	6	261	4.63	107	<5	<2	4	10	1.7	19	<2	34	.03	.060	17	16	.04	152	<.01	<3	.86	.04	.19	4	157
C-8	8	16	70	78	1.9	31	6	336	1.48	16	<5	<2	3	10	1.3	3	<2	7	.08	.031	11	23	.07	64	<.01	<3	.35	.04	.06	10	2
C-9	<1	6	23	102	1.3	1	2	3616	4.37	188	13	<2	<2	1618	1.2	2	<2	5	17.51	.071	1	4	.92	33	<.01	<3	.18	.03	.06	<2	15
C-10	<1	27	590	28	9.2	29	36	144	8.32	330	<5	<2	<2	6	<.2	5	10	1	.05	.002	<1	11	.02	18	<.01	<3	.07	.01	.01	4	237
F-6	3	22	27	111	1.8	6	1	172	2.69	22	<5	<2	<2	8	1.8	3	<2	2	.22	.004	<1	27	.02	27	<.01	<3	.09	.01	.01	14	30
RE F-6	2	21	26	106	1.9	5	1	164	2.53	22	<5	<2	<2	8	1.6	3	<2	2	.21	.004	<1	24	.02	26	<.01	<3	.09	.01	.01	13	24
F-7	8	56	46	573	2.4	16	10	319	5.08	97	<5	<2	5	196	2.5	2	<2	79	.66	.078	21	21	.41	266	<.01	<3	2.03	.06	.41	<2	22
F-8	<1	906	33111	280	278.7	<1	2	2060	.56	41	12	<2	<2	1110	39.3	153	61	<1	42.08	<.001	<1	4	.04	7	<.01	<3	.02	.01	<.01	<2	882
T-1	2	1196	20743	99999	215.9	68	31	89	11.15	1578	5	<2	<2	24	5083.8	<2	412	<1	.48	.001	<1	502	.01	2	<.01	<3	.02	.03	<.01	<2	901
STANDARD C2/AU-R	20	55	42	136	6.8	68	33	1160	4.01	38	19	8	34	50	18.7	16	17	68	.51	.104	38	62	.99	191	.08	25	1.99	.06	.13	10	500

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU** ANALYSIS BY FA/ICP FROM 30 GM SAMPLE.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: OCT 24 1996 **DATE REPORT MAILED:** Nov 4/96 **SIGNED BY.** D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE T-1 was collected while prospecting area not relative to grant.

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

APPENDIX H

Florence MacDonald File # 96-2580

S.S. A C-14 R.R. #1, Cherryville BC V0E 2G0

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
C-2	154	37	318	167	16.4	50	2	153	2.86	177	9	<2	6	15	<.2	5	4	27	.04	.031	28	6	.04	118	<.01	<3	.58	.01	.18	2	384
C-3	25	42	1875	62	210.0	5	<1	61	.66	29	<5	<2	2	8	.6	145	2	10	.05	.002	9	20	.01	40	<.01	<3	.19	.01	.11	6	1300
C-4	13	8	39	32	2.8	12	<1	22	1.42	99	<5	<2	4	8	<.2	<2	2	6	.02	.018	21	6	<.01	24	<.01	<3	.18	.08	.04	<2	35
F-2	10	3555	21	133	27.3	3	11	362	2.66	7	<5	<2	3	13	3.3	<2	<2	7	.23	.048	15	12	.19	45	<.01	<3	.57	.01	.12	4	169
F-3	32	468	7878	970	29.2	18	34	177	18.67	1366	<5	<2	2	70	11.8	32	39	3	.41	.018	1	6	.05	57	<.01	<3	.15	.01	.03	3	700
F-4	2	88	1076	662	57.1	9	23	1403	6.76	14735	<5	<2	5	164	19.8	3	106	11	1.19	.106	22	10	.18	205	<.01	3	.64	.01	.17	4	798
F-5	3	6	17	165	<.3	16	2	402	1.70	27	<5	<2	<2	104	1.5	<2	<2	16	2.97	.043	3	11	.53	45	<.01	<3	.58	.01	.07	<2	3
H-10	4	230	59	544	10.9	8	1	63	5.57	843	<5	<2	<2	9	19.7	11	23	2	.15	.002	<1	14	.02	13	<.01	<3	.05	<.01	.01	5	290
H-20	1	219	107	665	.7	33	26	652	7.02	7	<5	<2	2	7	4.8	<2	8	89	.37	.061	3	52	2.08	74	.23	<3	2.28	.03	.13	2	6
H-21	1	4328	140	1475	15.2	42	51	1085	5.35	34	<5	<2	<2	12	7.7	3	<2	153	.41	.055	12	51	1.99	24	.11	<3	1.73	.06	.04	<2	10
H-22	<1	42	24	209	.3	22	19	439	5.33	28	<5	<2	<2	18	1.2	<2	<2	36	.77	.033	2	24	1.61	50	.23	<3	1.51	.03	.13	<2	5
RE H-22	<1	44	20	218	<.3	21	20	434	5.26	31	<5	<2	<2	18	1.3	<2	3	36	.76	.035	3	24	1.59	48	.23	<3	1.50	.03	.13	<2	2
RB-2	3	39	43	104	1.0	11	<1	1985	6.01	8	5	<2	<2	523	1.4	<2	2	20	17.67	<.001	3	7	.25	57	<.01	<3	.27	.01	.04	<2	140
Z-1	27	54	13	373	.5	58	7	1542	5.13	36	<5	<2	3	635	15.1	<2	4	37	20.90	.043	5	12	.99	314	<.01	<3	.45	.01	.14	<2	<2
STANDARD C2/AU-R	20	59	42	145	6.3	71	36	1180	3.91	45	24	8	36	53	20.3	16	22	72	.54	.095	41	62	.99	208	.08	27	2.03	.06	.15	13	479

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU** ANALYSIS BY FA/ICP FROM 30 GM SAMPLE.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 3 1996 **DATE REPORT MAILED:** July 10/96 **SIGNED BY** ..D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLES H-10, 20, 21, 22 Z-1 were collected while prospecting other areas not relative to the prospecting grant.

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

ASSAY CERTIFICATE

APPENDIX I

Florence MacDonald File # 96-5512R

S-5 C-14 R.R. #1, Cherryville BC V0E 2G0

SAMPLE#	Cu %	Pb %	Zn %	Ag oz/t	Sb %
C-5	.365	13.66	.08	146.90	.480

1 GM SAMPLE LEACHED IN 50 ML AQUA - REGIA, DILUTE TO 100 ML, ANALYSIS BY ICP.
- SAMPLE TYPE: ROCK PULP

DATE RECEIVED: NOV 19 1996 DATE REPORT MAILED: Nov 26/96 SIGNED BY. D. Toye .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Data FA

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

ASSAY CERTIFICATE

APPENDIX I

Florence MacDonald File # 96-5512R2

S-5 C-14 R.R. #1, Cherryville BC V0E 2G0

SAMPLE#	AG oz/t
C-6	4.94
F-8	7.32
RE F-8	7.38

1.000 GM SAMPLE LEACHED IN 30 ML AQUA - REGIA, DILUTE TO 100 ML, ANALYSIS BY ICP.
- SAMPLE TYPE: ROCK PULP
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: DEC 2 1996 **DATE REPORT MAILED:** Dec 6/96 **SIGNED BY.** D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Data FA

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

ASSAY CERTIFICATE

APPENDIX I

Florence MacDonald File # 96-2580R

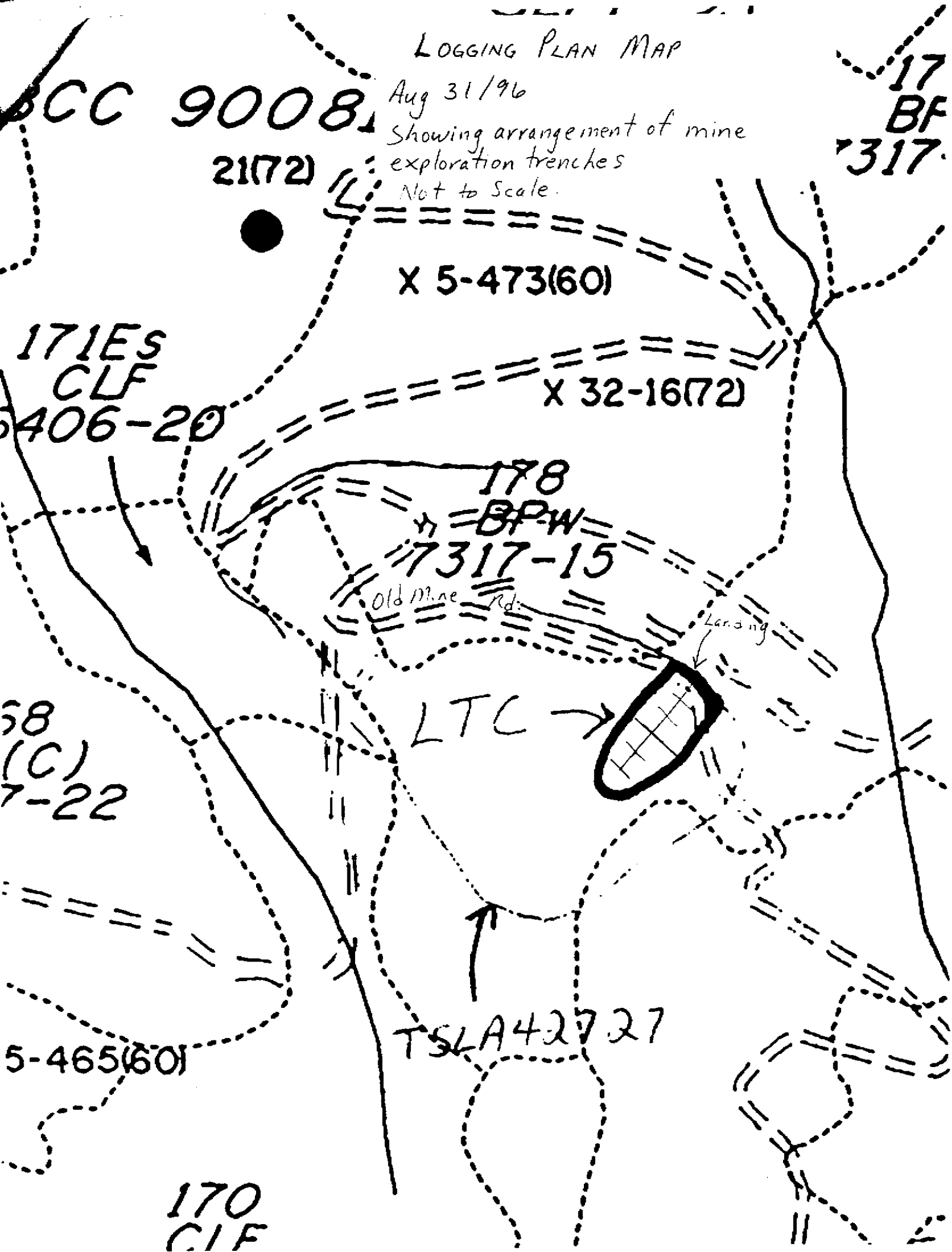
S.S. A C-14 R.R. #1, Cherryville BC V0E 2G0

SAMPLE#	AG oz/t
C-3	20.68
F-4	1.78
RE F-4	1.78

1.000 GM SAMPLE LEACHED IN 30 ML AQUA - REGIA, DILUTE TO 100 ML, ANALYSIS BY ICP.
- SAMPLE TYPE: ROCK PULP
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: DEC 2 1996 **DATE REPORT MAILED:** Dec 6/96 **SIGNED BY** .....D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Data FA


LOGGING PLAN MAP
Aug 31/96
Showing arrangement of mine exploration trenches
Not to Scale.
BCC 9008
21(72)
X 5-473(60)
171ES
CLF
406-20
X 32-16(72)
178
BPW
7317-15
Old Mine Rd.
Landing
LTC
TSL A42727
5-465(60)
170
CLF
17
BF
317