

GEOLOGICAL REPORT

on the

BOOTLEG PROPERTY

Fort Steele Mining Division, Southeastern British Columbia

N.T.S. 82F/09E

Latitude 49° 30' N, Longitude 116° 08' W

Prepared for :

MINER RIVER RESOURCES
2720 17th St. So.
Cranbrook, B.C. VIC 4H4

and

EAGLE PLAINS RESOURCES LTD.
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by

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March 18th, 1997

24,907

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SUMMARY

The **Bootleg Claim Group**, consisting of the Boot 1 - 4 mineral claims were staked in January, 1996 to cover prospective Aldridge Formation stratigraphy proximal to the Sullivan Deposit and covered by a 1995 B.C. Government sponsored Airborne Geophysical Survey. A total of 80 MGS units were staked to cover Lower-Middle-Upper Aldridge sediments on the east side of lower Matthew Creek which drains into the St. Mary River.

A geological reconnaissance program was undertaken on August 01 - 02 1996 consisting of stream sediment sampling and prospecting. A total of 22 rock samples and 27 silt samples were collected during the \$3300.00 program. The total per-unit cost of the program was \$129.00/sample.

The program located a moderate Cu-Zn stream silt anomaly in a drainage located on the Boot 2 claim block. Three rock samples taken in the same area returned anomalous multi-element geochemical values. It is recommended that these samples should be followed up with geological mapping and soil sampling.


LOCATION AND ACCESS

The **Bootleg** property is located within the Fort Steele Mining Division, within NTS mapsheet 82F/09E at 49° 30' North latitude and 116° 08' West longitude (see Location Map; Figure 1, following). It is situated 13 air-km by road from Kimberley, B.C. and is accessed by seasonally-maintained Forest Service roads.

The roughly square claim group consists of 80 MGS units which straddle the east-west oriented *Bootleg Mountain* with the center of the claims located 3.5 km north of the St. Mary River and west of Matthew Creek. Drainages on the eastern and north eastern part of the property drain into Matthew Creek, while drainages on the south-western part of the property flow south into the St. Mary River. Four Wheel Drive access to the Boot 2 and Boot 4 claims is provided via the Bootleg Forest Service road which branches off the main, paved surface, St. Mary River road 7.5 km east of St. Mary Lake.

Elevations within the property range from 1100m (3600') to 2600m (8500'). The property is subjected to moderate precipitation, and is free of snow from June to October. The lower parts of the property are forested with largely second growth Pine and Hemlock, with approximately 2/3 of the Boot 3 claim block logged within the last 4 years. The upper elevations on the property have sparse stands of mature Larch.

The **Bootleg** Claim group has an excellent location with respect to mining infrastructure. Cominco LTD.'s Sullivan Mine and concentrator facility (including concentrate loading and shipping via rail) are located approximately 13 km east of the claims. A paved road and hydroelectric powerline are located approximately 3.5 km south of the claim group. There also exists local well established mining support industries in both Cranbrook and Kimberley.


INTERIOR REFORESTATION CO. LTD.
 P.O. BOX 401 CRANBROOK B.C. V1C 4J1
 PHONE NO. 426-3300 FAX NO. 426-9311

YUKON

N.W.T.

ALASKA

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JASPER ★

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BOOTLEG CLAIM GROUP

VANCOUVER ★

CRANBROOK ★




Miner River Resources


EAGLE PLAINS RESOURCES

BOOTLEG CREEK CLAIM GROUP

MAPPER/DRAWN BY
JEFF M/C. DOWNE

LOCATION
MAP

FIG. 1

DATE:
MARCH/97

SCALE
NTS

BIG CITY RESOURCES



WASHINGTON

IDAHO

MONTANA

SEATTLE ★

PROPERTY TENURE

The property area consists of four 20-unit MGS claim blocks named the **Boot 1 - 4** and grouped as the **Bootleg**. The claims were located in January, 1996. Claim boundaries and post locations are shown on Fig. 2, in pocket. A summary of tenure information is provided below:

<u>Claim Name</u>	<u>Record No.</u>	<u>Units</u>	<u>Location Date</u>	<u>Expiry Date</u> •
BOOT 1	342999	20	January 16, 1996	January 16, 1998
BOOT 2	343000	20	January 16, 1996	January 16, 1998
BOOT 3	343001	20	January 16, 1996	January 16, 1998
BOOT 4	343002	20	January 16, 1996	January 16, 1998
	TOTAL :	80 units		

• expiry date after assessment filed

REGIONAL ECONOMIC HISTORY

The East Kootenay area has long been known as a mineral resource-rich area, with numerous mineral showings documented over the years. The turn of the century discovery of Cominco's world-class Sullivan deposit near the present city of Kimberley, put the area into focus with mineral explorationists world-wide. The Sullivan massive sulphide ore body hosted 180,000,000 tons of ore averaging 6.5% zinc, 6.4% lead and 1.90 oz/t silver, with a mineable lifetime of over 100 years, and a contained metal value in present dollars estimated to be in excess of 25 billion dollars. (Over 5 years of mineable reserves still exist within the deposit).

Numerous other past-producers in the area reflect the excellent mineralogic potential of the region. These include:

- 1) St. Eugene Mine (1899-1929) - 1.63 million tons grading approximately 8% lead, 1% zinc, 4.4 oz/t silver
- 2) Estella Mine (1951-1967) - 120,000 tons grading 4.8% lead, 9.0% zinc, 6.4 oz/t silver
- 3) Kootenay King Mine (1952-1953) - 14,616 tons grading 5.3% lead, 15.1% zinc, 1.94 oz/t silver.

The area is also well known for the presence of once-rich placer gold deposits, though no economic hard-rock gold concentrations have yet been located. The Wildhorse River, located approximately 30 km east of the **Bootleg** Group, saw frenzied placer mining activity beginning in 1864, with over 1,500,000 ounces of gold extracted from its gravels. Placer mining operations are still in place along the river.

GEOLOGY

REGIONAL GEOLOGY

Regionally the area is underlain by rocks of the Purcell Supergroup on the western flank of the Purcell Anticlinorium, a broad, north-plunging arch-like structure in Helikian and Hadrynian aged rocks. The anticlinorium is allochthonous, carried eastward and onto the underlying cratonic basement by generally north trending thrusts throughout the Laramide orogeny during late Mesozoic and early Tertiary time (Price, 1981).

The oldest rocks exposed in the area are greenish, rusty weathering thin bedded siltites and quartzites of the + 4000m thick Lower Aldridge Formation, along with the facies-related, dominantly fluvial Fort Steele Formation (the base of which is unexposed). The Sullivan deposit is located some 20-30m below the upper contact of the Lower Aldridge Formation. Overlying the Lower Aldridge is a continuous section of Middle Aldridge quartz wackes, subwackes and argillites some 3000+ m thick. Within the Middle Aldridge formation, fourteen varved marker horizons can be correlated over hundreds of kilometres. These represent the only accurate stratigraphic control. A number of aurally extensive, locally thick gabbroic sills are present within the Lower and Middle Aldridge Formations. These sills and dykes; the "Moyie Sills", locally were intruded into wet, unconsolidated sediments, and have been dated to 1445 Ma, providing a minimum age for Aldridge sedimentation and formation of the Sullivan deposit. The Middle Aldridge is overlain conformably by the Upper Aldridge, 300 to 400 meters of thin, fissile, rusty weathering siltite/argillite. It is this sedimentary sequence which underlies the Bootleg claim group.

Conformably overlying the Aldridge Formation is the Creston Formation, comprising approximately 1800 meters of grey, green and maroon, cross-bedded and ripple marked platformal quartzites and mudstones. The Kitchener-Siyeh Formation, which includes 1200 to 1600 meters of grey-green and buff coloured dolomitic mudstone are shallow water sediments overlying the Creston Formation.

The upper portion of the Purcell Supergroup consists of the Dutch Creek and Mount Nelson Formations. The Dutch Creek formation consists of approximately 1200 meters of dark grey, calcareous dolomitic

mudstones. Overlying the Dutch Creek formation is the Mount Nelson formation, 1000 meters of grey-green and maroon mudstone and calcareous mudstones. This unit marks the top of the Purcell Supergroup.

The Purcell Supergroup in the Sullivan area was deposited along an active tectonic basin margin. Dramatic thickness and facies variations record Purcell-age growth faults and contrast with gradual changes characteristic of most Purcell rocks elsewhere. These faults reflect deep crustal structures that modified incipient Purcell rifting, and led to the development of an intercratonic basin in middle Proterozoic time.

PROPERTY GEOLOGY

The south and central part of the Bootleg claims cover a shallow dipping package of siltites, quartzites and wackes assigned to the Lower Aldridge Formation which are conformably overlain by Middle Aldridge Formation sediments in the northern part of the property. Within this sedimentary package are a number of intrusive Moyie sills.

Bedding throughout the property area is generally shallow in the 10 - 30° W range, with strikes roughly orientated south-east/north-west. Distinct structural relationships have not yet been ascertained. No significant folding or faulting was recognised in the property area during the 1996 program.

1996 PROGRAM (Fig.2 in pocket)

The primary focus of the 1996 exploration program on the Bootleg Claim Group was to evaluate the property for possible Sullivan-type base metal mineralization. Silt sampling of the main property drainages, and reconnaissance prospecting was undertaken. A total of 22 rock samples and 27 stream sediment samples were collected.

Samples were shipped to Eco-Tech Labs at Kamloops, BC. Samples were then dried, sieved to -80 mesh and analyzed for Au geochem and 30 element ICP using aqua-regia digestion.

1996 RESULTS(Fig. 2 in pocket)

The 1996 program located a moderate Zn-Cu stream geochemistry anomaly on the northern part of the Boot 2 claim block. Anomalous geochemical values ranged between 293 and 1009 ppm Cu and 196 to 394 ppm Zn from silt samples RBBL5-02 to RBBL5-08. One sample within the anomalous zone returned a value of 470ppm barite. Three samples of rusty Aldridge quartzite float taken within 300m of the anomalous drainage returned high metal values. RBBLR-01 returned a value of 17.0 g/T Ag and 3096 ppm Pb, RBBLR-02 returned a value of 1020 ppm As, and RBBLR-03 had geochemical values of 220 Ba and 1024 Zn.

The 1995 B.C. Government sponsored Airborne Geophysical Survey did not locate any significant geophysical anomalies within the property area.

CONCLUSIONS and RECOMMENDATIONS

The weak multi-element stream sediment geochemistry anomaly outlined in the drainage on the northern part of the Boot 2 claim block and the multi-element rock geochem anomaly associated with float collected in the same area indicates the presence of local metal enrichment. The anomaly is located in the area of the contact between Lower Aldridge Formation sediments and Moyie intrusive. This intrusive may provide a source for base metal deposition the Aldridge sediments.

It is recommended that follow-up work be undertaken to locate the source of the stream sediment and rock geochemistry anomalies. Contour soil sampling on 50m vertical spacing should be carried out in the anomalous drainage. Detailed mapping and prospecting should be undertaken to locate the source for the anomalous Aldridge Formation float. If the source is located in a geologically favourable setting, diamond drilling should be carried out to determine the size and nature of the mineralization. The proximity of the Bootleg Claim Group to Cominco LTD's Sullivan concentrator and related in situ mining infrastructure could make the exploitation of a small orebody in the order of 5-10 million tons feasible.

A budget for proposed initial follow-up work is included following:

PROPOSED BUDGET

Personnel.....	\$3800.00
Analytical	\$1000.00
Meals/Grocery.....	\$500.00
Truck and Equipment Rentals.....	\$500.00
Supplies	\$500.00
Miscellaneous.....	\$500.00
Report/Reproduction	<u>\$2000.00</u>

Subtotal : \$8800.00
plus 10% contingency : \$880.00

TOTAL : \$9680.00

REFERENCES

Hoy, T. and Carter, G. (1988): Geology of the Fernie W1/2 Map Sheet (and Part of Nelson E1/2), Open File Map No. 1988-14

Hoy, T. (1993): Geology of the Purcell Supergroup in the Fernie West-Half Map Area, Southeastern British Columbia, BCMMPR Bulletin #84.

Reesor, J.E. (1958) G.S.C. Memoir 292: Dewar Creek Map Area. pp 64-65.

Schofield, S.J. : G.S.C. Memoir #76

APPENDIX I

Certificate of Qualification

STATEMENT OF QUALIFICATIONS

I, Charles C. Downie of Highway 93/95 Fort Steele, in the Province of British Columbia hereby certify that:

- 1) I am a Professional Geoscientist registered with the Association of Professional Engineers and Geoscientists of British Columbia (#20137).
- 2) I am a graduate of the University of Alberta (1988) with a B.Sc. degree and have practiced my profession as a geologist continuously since graduation.
- 3) This report is supported by data collected by myself during fieldwork conducted between August 09 and August 10, 1996, as well as information gathered through research.

Dated this 19th day of March, 1997 in Cranbrook, British Columbia.



Charles C. Downie, P.Geol.

APPENDIX II

Statement of Expenditures

STATEMENT OF EXPENDITURES-BOOTLEG CLAIM GROUP WORK PROGRAM

The following expenses were incurred on the **BOOTLEG GROUP** of mineral titles for the purpose of mineral exploration between the dates of August 09 - August 10th 1996.

PERSONNEL

C.C. Downie, P.Geol.; Geologist: 2.0 days x \$400/day	\$800.00
Tim J. Termuende, P.Geol.; Geologist 1.0 day X \$400/day	\$400.00
M. Betker; Technician/First Aid: 2.0 days x \$300/day.....	\$600.00
R. Betker; Technician: 2.0 days x \$300/day.....	\$600.00

EQUIPMENT RENTAL

4x4 Pickup: 3.0 days x \$50/day.....	\$150.00
Mileage: 206km x \$.20/km.....	\$41.20
Hand-held Radios (3) 2.0 days	\$140.00
Field Supply: 8 man days x \$25.00/day.....	\$175.00

ANALYTICAL..... \$872.96

FUEL..... \$23.40

MEALS/GROCERIES..... \$57.14

SHIPPING..... \$45.42

DRAFTING AND REPORT REPRODUCTION (ESTIMATE)

C. Downie , P.Geol.; 4.0 days x \$400/day.....	\$1600.00
Drafting(includes digitizing, generating base maps)	\$800.00
Reproduction.....	<u>\$20.00</u>
	\$6325.12

Total : \$ 6325.12

APPENDIX III

Analytical Results

2-Sep-95

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C6T4

ICP CERTIFICATE OF ANALYSIS AK96-930

TOKLAT RESOURCES INC.
SS1, SITE 7-95
2720-17th STREET SOUTH
CRANBROOK, B.C.
VIC 4H4

Phone: 604-573-5700
Fax : 604-573-4557

ATTENTION: TIM TERMUENDE

No. of samples received: 27
Sample Type: Silts
PROJECT #: Bootleg
SHIPMENT #: 96C
Samples submitted by: T. Termuende

Values in ppm unless otherwise reported

El #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	CDBLS-01	<5	<0.2	1.82	<5	155	5	0.36	<1	12	42	67	3.41	40	1.08	317	<1	0.02	23	1210	24	<5	<20	49	0.20	<10	46	<10	11	65
2	CDBLS-02	<5	<0.2	2.76	10	110	<5	0.23	<1	32	43	97	3.54	30	0.70	621	<1	0.02	25	1060	50	<5	<20	25	0.12	<10	56	<10	12	123
3	CDBLS-03	<5	<0.2	2.37	10	80	<5	0.24	<1	31	37	108	2.32	40	0.42	522	2	0.01	27	1740	52	<5	<20	18	0.05	<10	38	<10	21	93
4	CDBLS-04	<5	0.6	3.15	30	100	<5	0.31	<1	66	49	194	3.66	50	0.56	1464	3	0.01	40	2190	50	<5	<20	22	0.04	<10	55	<10	23	152
5	CDBLS-05	<5	0.6	1.78	20	75	<5	0.39	2	84	29	122	2.11	40	0.30	1781	3	0.01	27	1660	74	<5	<20	24	0.03	<10	31	<10	24	109
6	CDBLS-06	<5	0.4	2.32	30	125	<5	0.62	2	59	38	77	2.56	40	0.58	1505	2	0.01	34	1050	64	<5	<20	78	0.06	<10	38	<10	22	180
7	CDBLS-07	<5	0.4	1.74	15	105	<5	0.69	2	51	33	71	2.03	40	0.51	1765	1	0.01	34	1220	36	<5	<20	49	0.05	<10	30	<10	20	142
8	CDBLS-08	<5	<0.2	2.19	5	90	5	0.38	<1	16	24	23	3.15	20	0.52	259	<1	0.02	13	530	20	<5	<20	23	0.12	<10	48	<10	8	63
9	CDBLS-09	<5	<0.2	2.81	<5	100	10	0.37	<1	17	38	37	3.90	20	0.91	281	<1	0.02	21	310	16	<5	<20	43	0.16	<10	48	<10	12	60
10	CDBLS-10	<5	<0.2	2.16	<5	115	<5	0.45	<1	27	26	27	3.02	20	0.55	979	<1	0.01	17	590	20	<5	<20	27	0.12	<10	45	<10	9	79
11	CDBLS-11	<5	<0.2	1.94	<5	95	5	0.49	<1	21	24	22	2.66	20	0.53	592	<1	0.02	14	710	20	<5	<20	28	0.10	<10	41	<10	10	65
12	CDBLS-12	<5	<0.2	2.29	10	70	<5	0.22	<1	23	20	101	3.54	20	0.52	1075	<1	0.01	20	520	50	<5	<20	19	0.13	<10	78	<10	6	77
13	CDBLS-13	<5	<0.2	2.27	5	70	<5	0.07	<1	13	28	50	3.90	20	0.60	288	<1	<0.01	18	490	35	<5	<20	10	0.14	<10	37	<10	8	94
14	MBBLS-01	<5	<0.2	1.77	20	75	<5	0.38	<1	16	24	31	2.77	20	0.54	398	<1	0.02	16	430	18	<5	<20	16	0.11	<10	36	<10	10	77
15	MBBLS-02	<5	<0.2	1.64	20	70	5	0.55	<1	29	28	36	2.52	30	0.50	747	<1	0.02	24	570	18	<5	<20	22	0.08	<10	36	<10	11	110
16	MBBLS-03	<5	<0.2	1.47	10	60	5	0.37	<1	15	21	25	2.09	20	0.48	323	<1	0.02	14	390	14	<5	<20	15	0.10	<10	30	<10	8	68
17	MBBLS-04	<5	<0.2	1.74	<5	70	5	0.45	<1	11	19	18	2.45	20	0.40	258	<1	0.01	9	400	18	<5	<20	19	0.11	<10	35	<10	7	46
18	MBBLS-05	<5	<0.2	1.57	25	65	<5	0.55	<1	25	31	43	2.28	20	0.52	600	1	0.02	25	610	18	<5	<20	22	0.07	<10	36	<10	10	126
19	MBBLS-06	<5	0.6	1.74	10	95	5	0.63	1	52	24	15	2.27	20	0.33	2697	2	0.02	9	880	20	<5	<20	28	0.05	<10	29	<10	6	70
20	RBBLS-01	<5	<0.2	2.16	10	190	<5	0.34	<1	17	47	72	1.89	100	0.70	209	<1	0.02	38	1470	32	<5	<20	50	0.10	<10	27	<10	49	126
21	RBBLS-02	<5	0.8	2.67	35	115	<5	0.55	2	116	64	293	3.57	180	0.70	2684	3	0.02	63	1650	54	<5	<20	39	0.09	<10	38	<10	83	265
22	RBBLS-03	<5	<0.2	3.14	<5	470	5	0.89	2	55	142	92	5.35	130	2.19	2125	<1	0.02	94	2380	34	<5	<20	137	0.20	<10	82	<10	60	259
23	RBBLS-04	<5	0.4	1.88	15	70	<5	0.43	1	45	64	240	3.16	150	0.55	1028	2	0.01	39	1230	58	<5	<20	28	0.09	<10	37	<10	88	196
24	RBBLS-05	<5	0.8	3.18	30	65	<5	0.31	2	85	54	452	3.94	190	0.63	1692	3	0.01	42	1890	52	<5	<20	22	0.09	<10	39	<10	84	224
25	RBBLS-06	<5	0.8	4.07	40	75	<5	0.46	2	132	85	825	4.92	280	0.84	2168	4	0.02	73	2740	64	<5	<20	25	0.08	<10	50	<10	123	350

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
26	RBBLSS-07	<5	1.0	3.80	35	135	<5	0.60	2	146	121	1009	6.31	200	1.31	3029	4	0.02	110	2420	106	<5	<20	38	0.11	<10	68	<10	79	384
27	RBBLSS-08	<5	0.8	4.08	30	75	<5	0.45	2	114	91	813	5.03	280	0.93	1679	3	0.02	71	2730	68	<5	<20	23	0.09	<10	51	<10	124	348

QC/DATA:


Repeat:

1	CDBLS-01	<5	<0.2	1.81	<5	145	5	0.35	<1	12	42	67	3.40	40	1.05	314	<1	0.02	23	1230	22	<5	<20	47	0.21	<10	45	<10	11	65
10	CDBLS-10	-	<0.2	2.08	5	115	5	0.44	<1	26	25	26	2.92	20	0.54	953	<1	0.01	15	570	22	<5	<20	27	0.11	<10	43	<10	9	78
13	CDBLS-13	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	MBBLS-06	-	0.4	1.76	10	95	<5	0.62	<1	53	24	26	2.29	20	0.34	2690	1	0.02	10	890	18	<5	<20	27	0.05	<10	29	<10	8	74
23	RBBLSS-04	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Standard:

GEO'96	150	1.0	2.01	60	170	<5	1.98	<1	21	71	86	4.42	<10	1.06	767	<1	0.03	24	760	18	<5	<20	63	0.14	<10	88	<10	7	67	
GEO'96	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

df/930
XLS/96Toklat


per **ECO-TECH LABORATORIES LTD.**
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

30-Aug-96

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
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CERTIFICATE OF ANALYSIS AK96-929

TOKLAT RESOURCES INC.
SS1, SITE 7-95
2720-17th STREET SOUTH
CRANBROOK, B.C.
V1C 4H4

Phone: 604-573-5700
Fax : 604-573-4557

ATTENTION: TIM TERMUENDE

No. of samples received: 22

Sample Type: Rock

PROJECT #: Bootleg

SHIPMENT #: 96C

Samples submitted by: T. Tennuende

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	RBBLR-01	5	17.0	0.10	475	20	35	<0.01	5	2	210	2	0.55	<10	<0.01	40	11	<0.01	4	40	3096	<5	<20	3	<0.01	<10	1	<10	<1	133
2	RBBLR-02	<5	0.2	0.17	1020	25	<5	0.04	<1	4	397	<1	0.69	<10	0.02	47	16	<0.01	9	190	18	<5	<20	2	<0.01	<10	3	<10	<1	4
3	RBBLR-03	<5	<0.2	2.28	<5	220	10	0.35	4	11	119	19	4.81	20	1.69	935	2	0.05	7	820	38	<5	<20	8	0.22	<10	40	<10	11	1034
4	RBBLR-04	5	<0.2	0.19	<5	5	<5	0.25	<1	4	178	<1	0.80	<10	0.14	115	9	0.02	7	20	4	<5	<20	1	0.03	<10	11	<10	<1	15
5	RBBLR-05	5	<0.2	3.52	<5	25	10	0.21	<1	38	159	28	8.40	<10	2.41	818	9	<0.01	46	20	12	<5	<20	4	0.10	<10	74	<10	<1	97
6	RBBLR-06	5	<0.2	0.26	<5	5	<5	0.26	<1	4	173	5	0.85	<10	0.17	115	8	0.02	8	20	4	<5	<20	3	0.02	<10	13	<10	<1	11
7	RBBLR-07	<5	<0.2	1.75	<5	15	<5	1.03	<1	26	129	47	2.06	<10	0.98	291	<1	0.09	62	190	18	5	<20	17	0.11	<10	32	<10	<1	35
8	MBBLR-01	<5	<0.2	0.92	<5	20	<5	0.88	<1	24	150	70	3.72	20	0.29	167	8	<0.01	28	720	16	<5	<20	22	0.08	<10	8	<10	9	13
9	MBBLR-02	5	<0.2	1.48	<5	25	<5	0.75	<1	12	179	20	2.68	<10	0.94	518	5	0.01	15	460	16	<5	<20	25	0.12	<10	22	<10	8	101
10	MBBLR-03	5	<0.2	1.40	555	20	<5	1.22	<1	43	80	108	2.57	<10	0.75	289	1	0.08	34	290	14	<5	<20	17	0.13	<10	47	<10	3	21
11	MBBLR-04	5	<0.2	1.44	<5	90	<5	0.31	<1	13	83	27	3.02	<10	0.75	238	2	0.02	15	520	26	<5	<20	7	0.16	<10	16	<10	9	31
12	MBBLR-05	<5	<0.2	1.24	<5	60	<5	0.24	<1	14	105	17	2.82	<10	0.80	410	3	0.05	15	280	12	<5	<20	7	0.15	<10	25	<10	6	40
13	MBBLR-06	<5	<0.2	1.42	<5	75	<5	0.28	<1	12	132	27	3.26	<10	1.26	238	3	0.06	15	440	12	<5	<20	6	0.16	<10	26	<10	13	43
14	MBBLR-07	<5	<0.2	0.36	<5	<5	<5	0.20	<1	8	210	29	1.13	<10	0.26	130	11	0.02	25	200	<2	<5	<20	<1	<0.01	<10	28	<10	<1	9
15	MBBLR-08	5	<0.2	0.23	<5	<5	<5	0.03	<1	3	279	<1	0.82	<10	0.20	104	11	<0.01	7	110	4	<5	<20	<1	<0.01	<10	14	<10	<1	8
16	MBBLR-09	<5	0.2	0.93	<5	35	<5	0.45	<1	6	137	21	0.94	<10	0.18	314	4	0.05	12	210	44	<5	<20	8	0.06	<10	10	<10	11	59
17	MBBLR-10	<5	0.6	0.95	140	70	5	0.05	<1	14	142	62	5.43	<10	0.08	177	9	0.02	7	480	112	<5	<20	43	0.06	<10	16	<10	<1	33
18	MBBLR-11	5	<0.2	0.59	<5	55	<5	0.69	2	74	100	647	5.41	<10	0.15	1290	5	0.01	83	340	444	<5	<20	14	0.06	<10	77	<10	<1	146
19	CDBLR-01	<5	<0.2	2.18	5	35	<5	2.08	<1	12	101	17	2.50	<10	0.56	365	4	0.08	13	150	14	<5	<20	79	0.09	<10	95	<10	1	26
20	CDBLR-02	<5	<0.2	1.71	<5	160	<5	0.28	<1	19	115	100	4.23	10	0.89	590	<1	0.06	14	800	60	<5	<20	10	0.27	<10	63	<10	7	101
21	CDBLR-03	5	<0.2	1.50	<5	150	<5	0.17	<1	7	78	12	2.94	10	0.74	377	<1	0.05	2	740	18	<5	<20	7	0.23	<10	36	<10	8	56
22	CDBLR-04	<5	<0.2	0.02	<5	<5	<5	<0.01	<1	1	240	6	0.49	<10	<0.01	73	9	<0.01	6	<10	<2	<5	<20	<1	<0.01	<10	1	<10	<1	1

APPENDIX IV

Rock Sample Descriptions

ROCK SAMPLE DESCRIPTIONS

CDBLR-01 : ROCK/IN SITU QUARTZ VEIN - SILL

119/78S/series of 2-10 cm thick sills cutting local granitic intrusion;sills have 80% white to grey quartz with 10-15% well formed pale olive green intergrown crystals - olivine?;trace disseminated pyrite;

CDBLR-02 : ROCK/IN SITU QUARTZITE

v.fine grained hard,dark blue-grey to bleached light grey quartzite; well developed thick bedding @ 351/16SW;distinct rusty orange to purple weathering stain;sample taken 1.5m from intrusive contact;

CDBLR-03 : ROCK/IN SITU QUARTZITE

white,bleached; v.fine grained; 10% f.black flecks-biotite?

CDBLR-04 : ROCK/FLOAT BULL QUARTZ

big,rusty bull quartz boulder with hematite possibly after sulphides;

RBBLR-01 : ROCK/FLOAT QUARTZITE

rusty fine grained quartzite:

RBBLR-02 : ROCK/FLOAT QUARTZITE/WACKE?

large boulder;very fine grained quartzite-quartz wacke?;distinct rusty weathering stain;

RBBLR-03 : ROCK/FLOAT QUARTZ WACKE

rusty quartz wacke boulder;

RBBLR-04 : ROCK/FLOAT QUARTZ WACKE

large boulder;very fine grained quartzite-quartz wacke?;distinct rusty weathering stain;

RBBLR-05 : ROCK/FLOAT WACKE

v.fine grained;distinct rusty weathering stain;

RBBLR-06 : ROCK/FLOAT SILTSTONE

v.fine grained;thin bedded @ 340/20SW;rusty;

RBBLR-07 : ROCK/IN SITU GABBRO

intrusive with 60% grey quartz;med.grained;

MBBLR-01 : ROCK/FLOAT QUARZ WACKE

rusty quartz wacke boulder;

MBBLR-02 : ROCK/FLOAT BULL QUARTZ

rusty bull quartz boulder;

ROCK SAMPLE DESCRIPTIONS CONT

MBBLR-03 : ROCK/IN SITU QUARTZ WACKE

rusty, fine grained wacke with 50% quartz;

MBBLR-04 : ROCK/FLOAT SILTSTONE WITH QUARTZ VEINS

large, rusty v. fine grained siltstone boulder with 20% 0.5-2 cm width cross cutting quartz veins with trace rusty mineral possibly after pyrite;

MBBLR-05 : ROCK/FLOAT QUARTZ WACKE

rusty, fine grained quartz wacke similar to R-03;

MBBLR-06 : ROCK/FLOAT BULL QUARTZ

rusty bull quartz boulder;

MBBLR-07 : ROCK/FLOAT SILTSTONE/V.FINE GRAINED WACKE

rusty, v. fine grained sedimentary rock;

MBBLR-08 : ROCK/FLOAT BULL QUARTZ

rusty bull quartz boulder;

MBBLR-09 : ROCK/FLOAT QUARTZ WACKE

rusty, fine grained wacke with 50% quartz;

MBBLR-10 : ROCK/FLOAT WACKE

v. fine grained; distinct rusty weathering stain;

MBBLR-11 : ROCK/FLOAT QUARTZ WACKE

rusty quartz wacke boulder;

49:43:55.65 N
115:35:29.46 W

115:32:0.00 W

49:43:51.71 N
115:30:14.84 W

602000.00 603000.00 604000.00 605000.00 606000.00 607000.00

5509000.00

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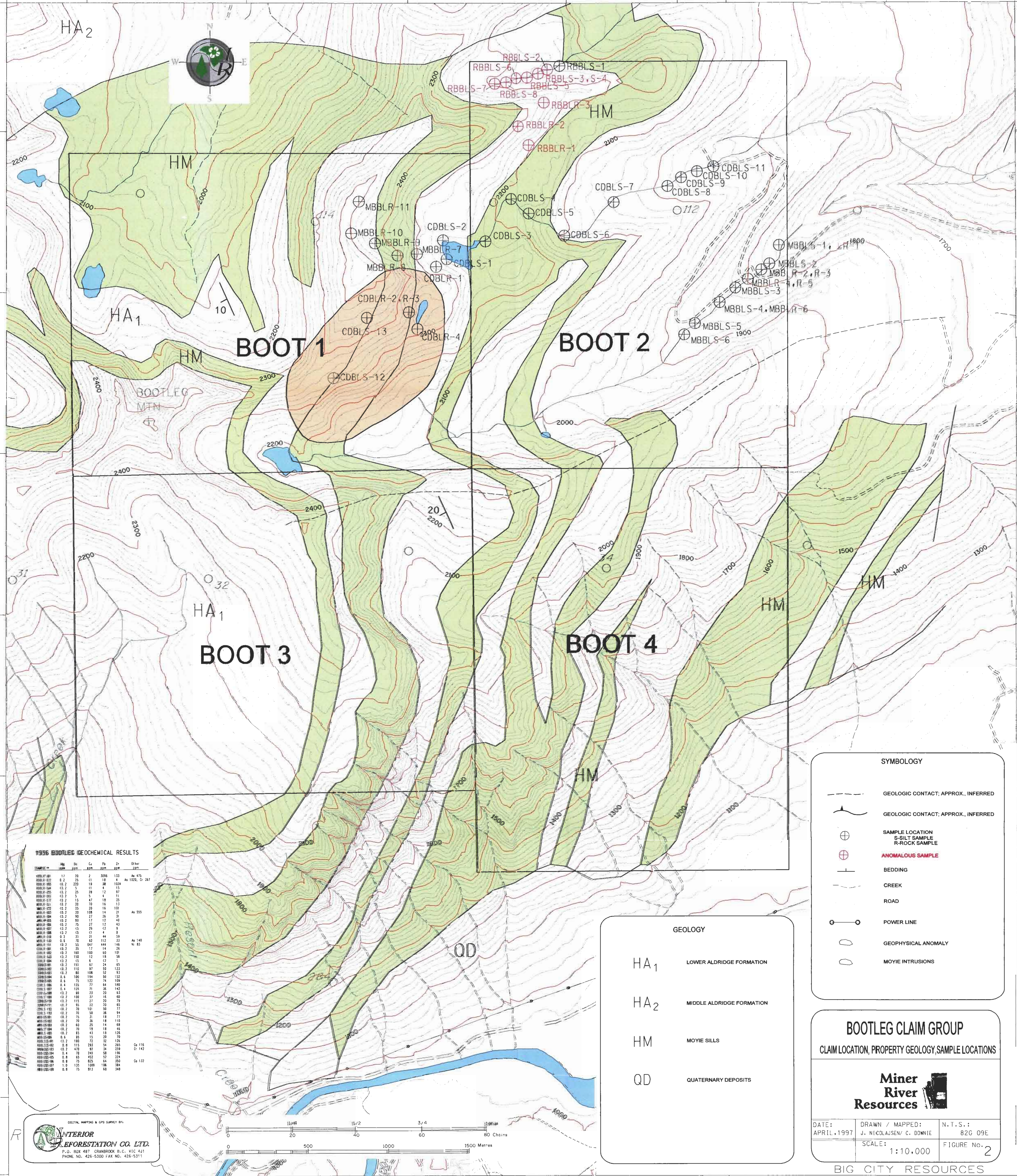
605000.00

606000.00

607000.00

49:39:55.41 N
115:30:22.09 W

115:32:0.00 W



1996 BOOTLEG GEOCHEMICAL RESULTS

SAMPLE #	HA	HM	QD	Other
MBBL R-01	1.2	20	121	As 175
MBBL R-02	0.2	13	18	As 1025, Cr 387
MBBL R-03	0.2	11	4	15
MBBL R-04	0.2	5	1	11
MBBL R-05	0.2	5	1	11
MBBL R-06	0.2	10	18	13
MBBL R-07	0.2	10	18	13
MBBL R-08	0.2	10	18	13
MBBL R-09	0.2	10	18	13
MBBL R-10	0.2	10	18	13
MBBL R-11	0.2	10	18	13
MBBL R-12	0.2	10	18	13
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MBBL R-14	0.2	10	18	13
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MBBL R-20	0.2	10	18	13
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MBBL R-98	0.2	10	18	13
MBBL R-99	0.2	10	18	13
MBBL R-100	0.2	10	18	13

SYMBOLY

- GEOLOGIC CONTACT: APPROX., INFERRED
- GEOLOGIC CONTACT: APPROX., INFERRED
- ⊕ SAMPLE LOCATION S-SILT SAMPLE R-ROCK SAMPLE
- ⊕ ANOMALOUS SAMPLE
- BEDDING
- CREEK
- ROAD
- POWER LINE
- GEOPHYSICAL ANOMALY
- MOYIE INTRUSIONS

GEOLOGY

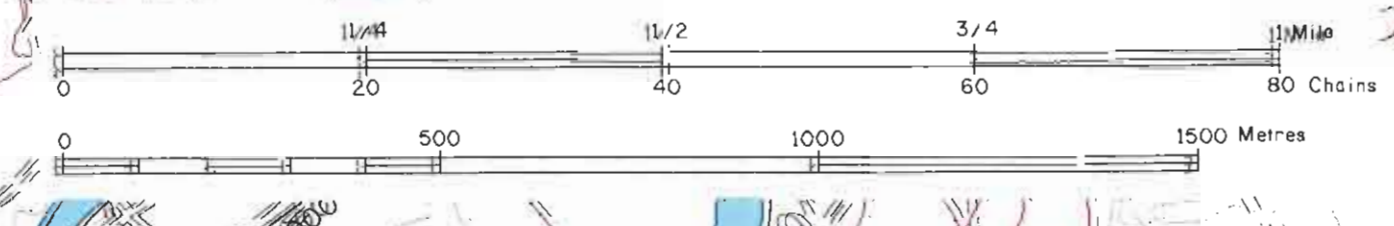
- HA₁ LOWER ALDRIDGE FORMATION
- HA₂ MIDDLE ALDRIDGE FORMATION
- HM MOYIE SILLS
- QD QUATERNARY DEPOSITS

BOOTLEG CLAIM GROUP
CLAIM LOCATION, PROPERTY GEOLOGY, SAMPLE LOCATIONS

Miner River Resources

DATE: APRIL, 1997 DRAWN / MAPPED: J. NICOLAISEN/ C. DOWNIE N. T. S. : 82G 09E
SCALE: 1:10,000 FIGURE No. 2

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BIG CITY RESOURCES