

BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
MINISTRY OF ENERGY AND MINES
GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR: 2001/2002

REPORT #: PAP 01-51

NAME: RONALD MACARTHUR

D. TECHNICAL REPORT

- One technical report to be completed for each project area.
- Refer to Program Regulations 15 to 17, page 6.

SUMMARY OF RESULTS

- This summary section must be filled out by all grantees, one for each project area

Information on this form is confidential for one year and is subject to the provisions of the Freedom of Information Act.

Name Ronald MacArthur Reference Number 01/02 P101

LOCATION/COMMODITIES

Project Area (as listed in Part A) Bowron-Haggen MINFILE No. if applicable 093H-136

Location of Project Area NTS 93H6W 93H12E Lat 59- Long 093H-072

Description of Location and Access Bowron F.S. Road provides access to North part of area
NARROW F.S. AND Haggen Rd provide access to South.

Prospecting Assistants(s) - give name(s) and qualifications of assistant(s) (see Program Regulation 13, page 6)

NA

Main Commodities Searched For Pb-Zn-Ba

Known Mineral Occurrences in Project Area Bow Basite 093h-136
WD - Zn 093h-072

WORK PERFORMED

1. Conventional Prospecting (area) 2500 ha
2. Geological Mapping (hectares/scale) 100 1:500
3. Geochemical (type and no. of samples) 27 Rx geochem, 5 Assays, 27 Silt Recy Sil, 31 Soil
4. Geophysical (type and line km) NA
5. Physical Work (type and amount) Hand Trenching 3days, Trail Cut 2days, Grid work 2days
6. Drilling (no. holes, size, depth in m, total m) NA
7. Other (specify) _____

FEEDBACK: comments and suggestions for Prospector Assistance Program _____

Gord Program it should be continued in 2002 and
beyond. This type of funding stimulates discoveries
of new mineral wealth.

EXPLORATION REPORT

BOWRON RIVER- HAGGEN CREEK AREA

BRITISH COLUMBIA

NTS 93H

DECEMBER 2001

R G MacArthur

BRITISH COLUMBIA PROSPECTORS ASSISTANCE PROGRAM—2001

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INTRODUCTION

This report describes the results of work carried out with the financial assistance of a grant from the British Columbia Prospectors Assistance Program for 2001. The project area is located 80 to 105 km southeast of Prince George BC along the east side of the Bowron River.

The report is divided into three sections:

I) Describing work done on the OLT claims in the south part of the project area

The complete assessment report completed for these claims is included for this section of the report.

II) Describing work done on the Apollo Claims near the north end of the project area

III) Describing work done outside the above claim areas this includes staking two additional claim blocks, the El Jefe 1-4 north of the Apollo Claims and the KNA 1-4 claims north of the OLT claims.

A complete description of the work performed is reported in the body of the report

SECTION I OLT PROPERTY

ASSESSMENT REPORT

OLT 1-13 CLAIMS

CARIBOO MINING DIVISION BC

NTS 093H/ 06W

LAT 59 deg 29 min N
LONG 121 deg 28 min W

Ron MacArthur

December 2001

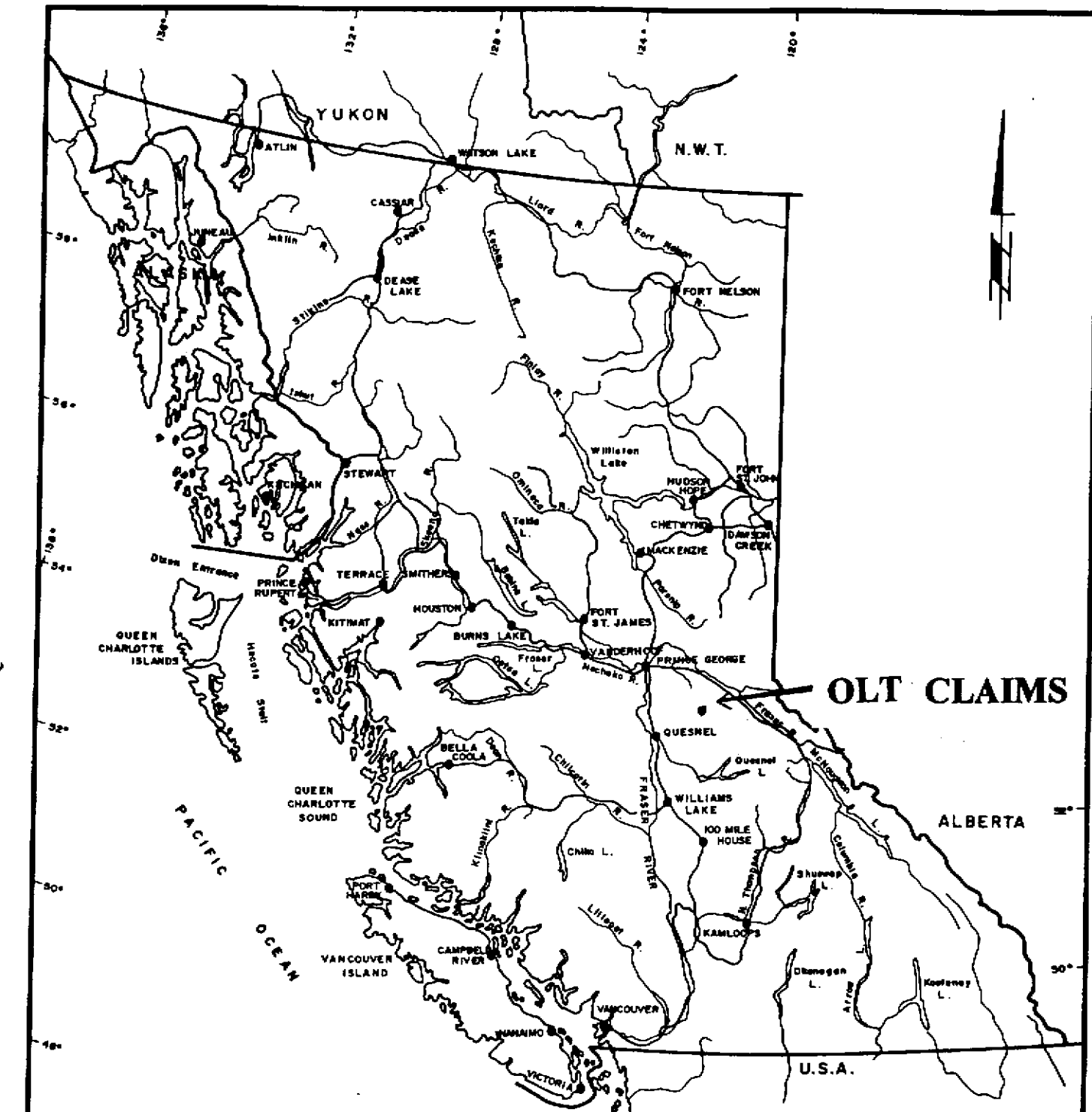
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OLT 1-13 CLAIMS
CARIBOO MINING DIVISION B.C.
LOCATION MAP
FIG - 1

1.0 SUMMARY

The OLT 1-5 claims located near Indianpoint Creek in the Cariboo Mining Division were staked by the author on July 25, 1999. An additional 8 units-OLT 6-13 were staked on Oct 31, 2000. Work described here was performed between Aug 30 and September 7, 2001. The program was successful in expanding the geochem anomaly up slope from the area previously tested by drilling. The author concludes that there is a high probability of additional mineralization above the drilled area. An expanded geochem survey and drilling are recommended.

2.0 INTRODUCTION

This report describes the results of work performed on the OLT 1-13 claims between August 30 and September 7, 2001. Some eight days plus travel time were spent on the property.

The OLT 1-5 claims were staked by the author on July 25, 1999 to cover an area of anomalous Zn-Pb in soils as previously outlined and partly drill tested by Kennco and Cominco. The OLT 6-13 claims were staked on Oct 31, 2000. All work was performed by the author. The purpose of the work was to relocate the Pb-Zn previously outlined soil anomaly and determine if the Cominco drill holes had sufficiently tested its source. The target is either "sedex" shale hosted Pb-Zn-Ag or carbonate breccia hosted mineralization within the Black Stuart Formation.

3.0 LOCATION AND ACCESS

The property is located on the east side of Indianpoint Creek approximately 105 km southeast of Prince George, in the Cariboo Mining Division.

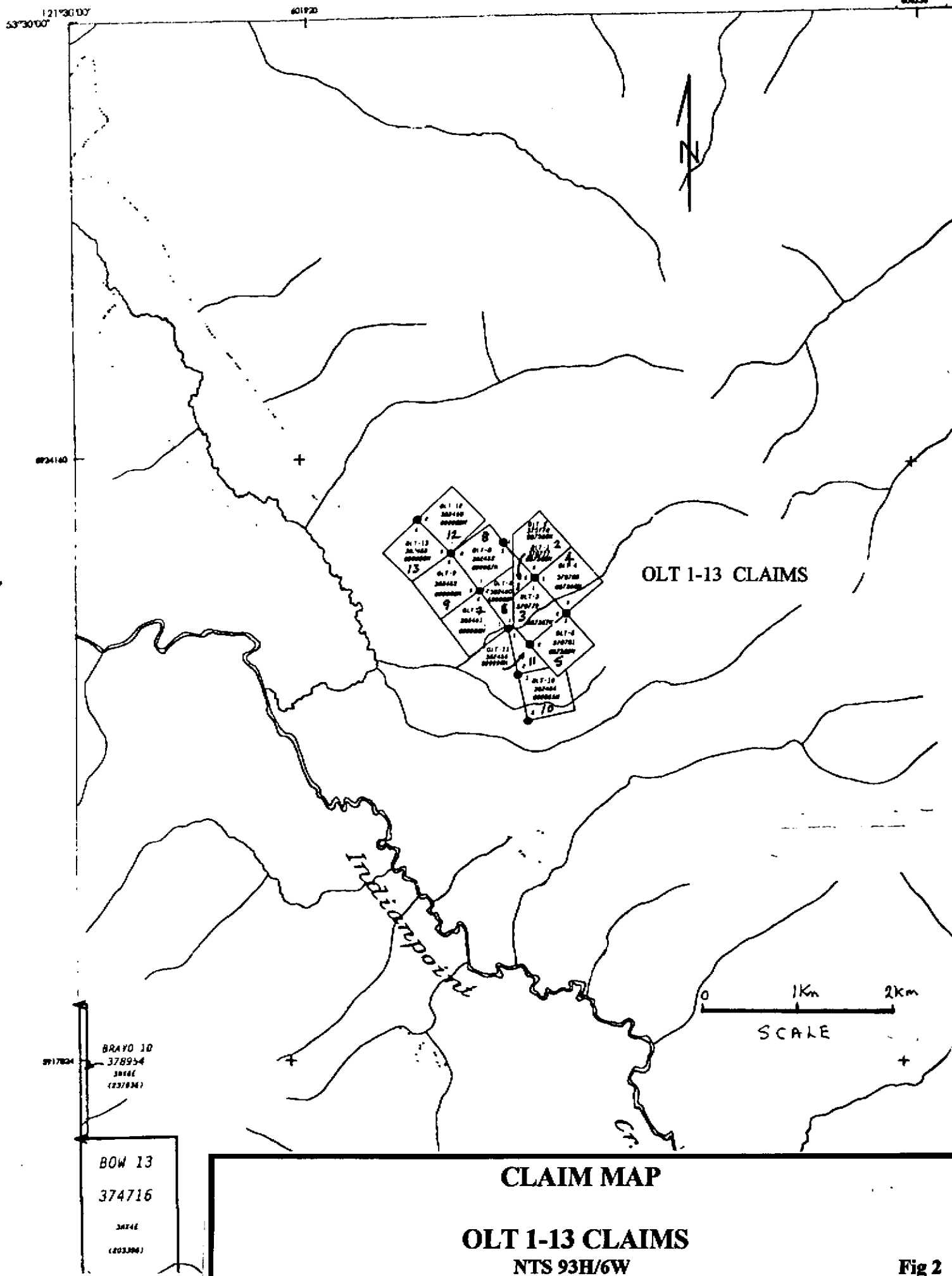
Access is by way of Highway 16 and the main Bowron and Narrow Forest Service Roads to the east side of Indianpoint Creek and then by a de-commissioned forest service road that runs north along the east side of Indianpoint Creek. Logging access roads on the claims have been de-commissioned and are now impassable.

4.0 CLAIM DATA

The property currently consists of thirteen two-post claims as listed below.

Claim	Tenure #	Record Date	Units
OLT-1	370777	July 25, 1999	1
OLT-2	370778	July 25, 1999	1
OLT-3	370779	July 25, 1999	1
OLT-4	370780	July 25, 1999	1
OLT-5	370781	July 25, 1999	1
OLT-6	382450	October 31, 2000	1
OLT-7	382451	October 31, 2000	1
OLT-8	382452	October 31, 2000	1
OLT-9	382453	October 31, 2000	1
OLT-10	382454	October 31, 2000	1
OLT-11	382455	October 31, 2000	1
OLT-12	382456	October 31, 2000	1
OLT-13	382457	October 31, 2000	1

All claims are 100% owned by the author.



5.0 PHYSIOGRAPHY and VEGETATION

The area lies on the east side of the Cariboo Mountains. The slopes rise moderately from Indianpoint Creek up to the east side of the claims where steeper rocky slopes are formed by resistant carbonate units. Elevations on the claims range from 1000 meters to 1440 meters.

Almost the entire area of the claims was clear cut and burned in the mid 1980's. Replanting of pine and natural regeneration of alder, willow, poplar and cottonwood has produced a thick tree and brush cover with trees up to 20cm dia.

A thick cover of fluvial-glacial deposits covers much of the area. Overburden depths in excess of 30 meters were encountered in previous drill holes in the area. A prominent topographic bench formed by fluvial-glacial material occurs at about 1025 meters elevation. Although this forms a good roadbed it seriously limits the effectiveness of conventional soil geochemistry at that elevation and below.

6.0 REGIONAL GEOLOGY

The property lies within the Cariboo Terrane as described by Struik. The Cariboo Terrane consists of a sequence of sedimentary rocks from Precambrian to Permo-Triassic in age that lie in fault contact with the western margin of the North American Craton. Within the Cariboo Terrane an Ordovician unconformity separates the Cambrian and older sequence from the Ordovician and younger sequence. In the property area the older sequence of rocks belong to the Cariboo Group that in this area includes the Yanks Peak Formation (quartzite), the Midas Formation (shale, slate, quartzite, etc), The Mural Formation (limestone) and the Dome Creek Formation (shale, slate and limestone). The younger sequence is comprised of the Upper Ordovician-Lower Mississippian Black Stuart Group as described by Struik. These rocks are considered to be correlative with similar age basinal sediments that host sedex Zn-Pb-Ag and barite deposits in the Kechika Trough and Selwyn Basin in Northern BC and Yukon.

7.0 PREVIOUS WORK

The first recorded exploration work in the area was by Kennco in 1980-82. They identified a large are of anomalous Zn- Pb in silts and soils. Mapping, a soil sampling survey and four diamond drill holes were completed. In spite of a recommendation for no further work Kennco held the claims until 1988 when Cominco optioned the property. The Kennco work is described in AR# 10607. Cominco re-located and expanded the geochem anomaly and drilled six diamond drill holes. The results of the Cominco work are reported in AR #'s 17766 and 19084.

The author filed an assessment report in 2000 describing a short exploration program conducted in 1999.

8.0 2001 WORK PROGRAM

8.1 Grid Preparation

A total of 1500 meters of baseline and gridline was cut, flagged, hip-chained. Stations at 25 meter intervals were flagged with orange and blue flagging. Station co-ordinates were also marked on white tyvek tags at each sample site. The two gridlines were laid out to cover the central part of the Pb-Zn geochem anomaly previously tested by Cominco holes 1 to 4. The base line was run at 330 degrees roughly parallel to the logging road at that location. These lines were selected to provide control in relocating the Cominco holes and the up-slope limits of the geochem anomaly. For sampling and mapping outside this grid area a hip chain and GPS were used. The area was entirely clear-cut in the early 1980's and has now regenerated with thick underbrush and planted pine.

8.2 Geochemical Sampling

A total of 33 soil samples were collected at 25-meter intervals along the two lines, 10,000N and 10,200N as shown in Fig #3. One soil sample #112698 was collected approx 10 meters above the drill site for Cominco hole #1.

Using a long handled round mouth shovel samples were collected from the "B" horizon when possible. Because of poor soil development and talus creep on the steep slopes soil horizons are not well defined in places. At 5 stations two samples were collected from the same hole. The upper sample "a" was collected at 25-35 cm depth, a second deeper sample "b" was collected as deep as possible (usually 50 to 80 cm). This was done to test the author's theory that talus creep and poor soil development along with shallow collection depth by previous samplers may have misled previous explorers as to the true extent of the soil geochem anomaly. In the authors experience this is a common problem with mass production sampling as is typically carried out on large projects. For this reason special care was taken to ensure that samples were properly collected from the appropriate soil horizon. Although this procedure takes considerable more time the results as discussed below make it worthwhile.

Samples were collected in porous "Hubco" sample bags marked with the grid location and were air dried before shipping. All samples were submitted to Acme Analytical Labs in Vancouver BC for 35 element analysis by ICP and Au geochem. A four acid (HClO₄-HNO₃-HCL-HF) digestion was employed.. On Fig#3 results for Pb are plotted on the left side of the line with Zn results on the right. Where two samples were collected at the same site results are separated by a comma with the second value representing the deeper sample. The complete results are included as Appendix 3.

Four silt samples were collected. Locations are plotted on Fig#3 and results are included in Appendix 3.

8.3 Geological Mapping

Outcrop exposure within the area concentrated on for this program is very limited. A few new outcrops were mapped and these are plotted on Fig # 3.

As water in the main creek that cuts across the OLT-3 claim was very low a traverse was made to look for outcrop in the creek bed. Only one new outcrop was located, just above the logging road. A number of interesting boulders were located and these are plotted on Fig # 3. One large boulder (< 1 meter diameter) of qtz-carbonate breccia was found to carry minor galena and zinc oxides sample # 112657. This creek was also prospected downstream below the logging road, south of OLT-7 claim however no outcrop was located in this area. The creek passing through the OLT-9 claim was also traversed but no out crop was located. A total of 10 rock samples were collected for analysis, four were assayed for Pb -Zn- Ag because they contained significant sulphides or oxides and six were analysed by 35 element ICP. Locations and sample numbers are plotted on Fig#3 and results are included in appendix 3.

Along with geological mapping the sites of Cominco drill holes 1 to 4 were relocated and marked. Although there are no drill collars marked on the ground the three drill sites were successfully located with reasonable certainty (say within 10 to 20 meters) using the features marked on the Cominco plans.

What appears to be small "kill-zone" formed by deposition of secondary Fe-Zn-Pb oxides was located within the area of the central geochem anomaly. (9975N @10150E) Here a swampy area 25-35 meters wide by 75 meters north south has failed to regenerate vegetation as successfully as the surrounding area. A cluster of limonite-smithsonite boulders over a 5 to 10 meter diameter area is poorly exposed through the swampy soil and moss near the upper edge of the zone. This area appears to have been scraped level by a bulldozer either during logging or more likely by Cominco while laying out their drill sites. Although an occurrence of smithsonite is shown on a Cominco drill section it is not discussed in their reports to any extent. Bearing in mind that the entire area was clear-cut logged and burnt by an intense forest fire between 1982 and 1985 it is difficult to determine to what extent material has been transported. One grab sample of classic spongy limonite-smithsonite-hydrozincite #112700 assayed 0.36% Pb, 43.04% Zn, 40.1g/t Ag. Another sample #112701 collected from a hole dug 10 meters above the swamp assayed 0.16%Pb 17.26%Zn, 9.8g/t Ag. This material appeared to be an altered carbonate breccia but was highly weathered and coated with oxides. The source of this zone of secondary "oxide" mineralization was the target of Cominco drill holes 2 and 3. A similar swampy area with very poor regeneration occurs approx 100 meters southeast, No limonite or smithsonite were observed at this second site.

Data was recorded in a notebook and plotted later on a topographic base map prepared from a BC Forest Service "trim map" # 93H043.

8.4 Discussion of Results

The geological mapping provided only limited new information but it appears that the eastern edge of the Black Stuart Group has been fairly well tied down near the end of lines 10,000N and 10,200N @ 10,525E. In this area the contact between the less resistant shales of the Black Stuart and the very resistant quartz breccia unit forms a small topographic bench with a sharp ridge above where the quartz breccia outcrops.

Since the area soil sampled is mostly within the previously outlined geochem anomaly it is no surprise that most samples are anomalous in either Pb or Zn or both. The soil sample results however demonstrate two important things: Firstly, of the 5 sites where two samples were collected at different depths, 4 sites returned significantly higher values in the deeper sample. **One of these collected 10 meters up slope from the smithsonite occurrence returned dramatically higher values in the deeper sample for both Pb (67 ppm in upper vs. 19209 ppm in lower) and Zn. (652ppm in upper vs. 99999 ppm in lower).** Secondly the geochem results show that the soil anomaly for Pb and Zn extends further upslope than previously indicated by the Cominco sampling. This is a very significant finding as it means that the drill holes 1-4 were not far enough up slope to be above the geochem cut-off. Although these holes did cut some mineralization there must be additional mineralization up hill from the drill holes.

9.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the observations made during the above work and a review of previous results the author concludes that there is a high probability of additional mineralization east and upslope from the Cominco drill holes. The author believes that an expanded carefully conducted geochem survey will define additional drill targets. The area above Cominco drill holes 1 to 4 has not been sufficiently tested and warrants additional drilling.

10.0 REFERENCES

- Campbell, R. B. et al 1973 Geology of the McBride Map Area British Columbia.
GSC Paper 72-35
- Struik, L.C. 1988: Structural Geology of The Cariboo Gold Mining District, East -Central British Columbia. GSC Memoir 421
- B. C Ministry of Energy, Mines and Petroleum Resources, Assessment Reports: 10607, 17766, 19084.



ASSAY CERTIFICATE



Rx Assays

MacArthur, Ron File # A200136
1208 - 1328 Homer St., Vancouver BC V6B 6A7 Submitted by: Ron MacArthur

SAMPLE#		PB %	ZN % gm/mt	AG gm/mt	OLT CLAIMS
OLT Claims Fig 3	SI	<.01	<.01	<.3	Appendix 1a
	112657	1.74	.05	.8	
	112658	.01	<.01	.5	
	112700	.36	43.04	40.1	
KNA Fig 10 Claims	112701	.16	17.26	9.8	
	112731	.14	.16	1.4	
STANDARD R-1		1.33	2.17	101.2	

GROUP 7AR - 1.000 GM SAMPLE, AQUA - REGIA (HCL-HNO3-H2O) DIGESTION TO 100 ML, ANALYSED BY ICP-ES.
- SAMPLE TYPE: ROCK R150 60C

DATE RECEIVED: JAN 16 2002 DATE REPORT MAILED: Jan 23/02 SIGNED BY: C. Leong D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE

MacArthur, Ron File # A200135

1208 - 1328 Homer St., Vancouver BC V6H 6A7 Submitted by: Ron MacArthur

OLT Claims
Appendix 1b

Rx Geochem

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 %	Al %	Na %	K %	W ppm	Zr ppm	Sn ppm	Y ppm	Nb ppm	Be ppm	Sc ppm
SI	<2	3	27	56	.5	2	2	121	.08	<5	<10	<4	2	168	.5	6	<5	4	6.92	.012	5	11	.30	184	.03	1.15	9.85	.21	<4	98	4	5	2	1	<1
112680	2	6	<5	60	<.5	20	3	91	.19	7	13	<4	<2	132	1.3	<5	<5	16	2.28	.017	<2	7	1.40	2494	<.01	.31	<.01	.04	<4	4	<2	<2	3	<1	<1
112681	2	20	<5	25	<.5	13	2	13	.18	<5	<10	<4	<2	112	.6	<5	<5	8	.18	.011	<2	4	.11	2561	<.01	.36	.01	.03	<4	2	<2	<2	2	<1	<1
112682	2	7	<5	18	<.5	13	3	17	.24	8	<10	<4	<2	95	<.4	<5	<5	8	.10	.012	<2	3	.07	3336	.01	.26	<.01	.04	<4	6	<2	<2	2	<1	<1
112683	<2	3	<5	10	<.5	5	2	10	.14	7	<10	<4	<2	67	<.4	<5	<5	7	.02	.008	<2	4	.01	4924	<.01	.21	<.01	.03	<4	5	<2	<2	<2	<1	<1
112684	2	3	<5	9	<.5	2	3	<5	.14	<5	<10	<4	<2	47	<.4	<5	<5	6	.02	.007	<2	3	<.01	6649	.02	.19	<.01	.02	<4	5	<2	<2	2	<1	<1
112685	4	2	<5	6	<.5	2	2	<5	.20	7	<10	<4	<2	45	<.4	<5	<5	11	.01	.009	<2	4	<.01	4651	<.01	.30	.01	.06	<4	6	<2	<2	3	<1	<1
112686	4	2	<5	11	<.5	3	2	<5	.28	5	<10	<4	<2	39	<.4	<5	<5	23	.02	.004	<2	5	.01	3174	.01	.51	<.01	.12	<4	7	<2	<2	<2	<1	<1
112687	6	4	6	17	<.5	5	<2	<5	.49	<5	<10	<4	<2	69	<.4	<5	<5	32	<.01	.010	<2	8	.02	1137	.01	.78	<.01	.16	<4	8	<2	<2	<2	<1	<1
112688	37	8	8	61	<.5	29	4	26	1.27	25	<10	<4	<2	67	.5	<5	<5	78	.02	.051	<2	24	.04	349	.05	1.74	<.01	.31	<4	21	3	2	<2	1	<1
112689	47	24	8	65	<.5	36	4	5	2.02	25	14	<4	2	87	.4	11	<5	150	.04	.054	5	42	.07	679	.09	3.03	.01	.50	4	30	<2	2	3	2	1
112653	7	99	103	684	1.6	73	5	250	5.51	47	18	<4	3	129	4.8	17	10	122	7.44	.651	20	103	.98	146	.08	2.97	.03	1.61	<4	4	<2	26	2	1	5
112655	11	25	42	1210	<.5	42	17	217	8.12	29	<10	<4	2	465	1.4	<5	<5	43	1.86	1.055	7	124	.06	1350	.01	.92	.01	.24	14	2	<2	42	<2	1	9
112656	94	26	25	5463	<.5	767	79	1516	13.28	50	13	<4	9	66	5.0	<5	6	134	1.06	.165	30	103	.35	2783	.20	3.54	.14	1.59	<4	24	2	8	3	1	5
112659	<2	5	12	49	<.5	8	2	2845	3.75	8	<10	<4	<2	139	<.4	<5	<5	4	29.62	.028	5	10	4.46	772	<.01	.66	.29	<.01	<4	5	<2	4	<2	<1	<1
112660	4	2	<5	25	<.5	5	2	101	.31	<5	<10	<4	<2	9	.4	<5	<5	8	.69	.073	<2	108	.12	450	<.01	.18	.01	.03	<4	3	<2	<2	2	<1	<1
RE 112660	4	<2	<5	22	<.5	3	2	94	.30	<5	<10	<4	<2	9	<.4	<5	<5	8	.67	.074	<2	111	.12	446	<.01	.19	<.01	.03	<4	6	<2	<2	2	<1	<1
112662	2	4	8	2591	<.5	5	10	91	.24	<5	14	<4	<2	619	6.3	<5	<5	13	1.97	.694	5	49	.33	28134	<.01	.12	<.01	.03	<4	<2	<2	17	3	<1	<1
112664	13	14	9	133	<.5	24	3	109	.41	5	<10	<4	<2	390	2.5	<5	<5	329	14.63	.981	16	68	.33	1583	.04	1.07	.02	.46	<4	8	2	23	<2	<1	2
112665	6	645	<5	124	5.4	3	3	46	.24	60	<10	<4	<2	61	3.1	241	<5	11	.81	.282	<2	51	.08	4159	<.01	.58	.01	.29	<4	4	<2	6	2	<1	<1
112666	2	23	9	50	<.5	17	5	336	1.78	<5	<10	<4	5	126	.7	7	<5	55	3.79	.048	20	65	2.55	250	.12	5.62	.02	2.78	<4	36	3	10	3	2	7
112669	<2	19	<5	40	<.5	13	4	230	1.32	<5	<10	<4	6	130	.6	9	<5	43	3.69	.040	17	89	2.26	180	.08	3.98	.01	2.19	<4	31	<2	7	3	1	5
112670	8	77	<5	260	1.0	33	3	219	1.21	<5	<10	<4	2	263	3.5	45	<5	495	6.29	1.261	26	99	2.36	193	.09	3.38	<.01	1.69	<4	26	<2	32	<2	1	4
112676	19	86	11	111	<.5	52	8	218	5.88	22	<10	<4	8	105	1.5	<5	<5	594	.49	.440	38	135	1.26	901	.35	6.39	.06	2.63	<4	90	3	14	37	2	11
112677	2	8	9	7	<.5	6	2	53	.69	<5	<10	<4	3	4	<.4	5	<5	71	.07	.008	8	102	.18	217	.05	1.44	.02	1.22	<4	14	2	2	<2	1	3
112702 KNA	149	59	7	51	.7	6	4	296	1.70	140	<10	<4	2	80	.5	9	<5	36	.90	.018	5	72	.30	238	.07	2.76	.68	.54	<4	9	<2	4	2	<1	3
112703	8	196	21	115	<.5	43	3	27	3.34	38	<10	<4	9	121	1.0	5	<5	118	.07	.245	38	117	.45	1801	.12	3.58	.02	1.65	<4	66	2	16	9	2	5
112726 Apollo	<2	168	<5	112	<.5	16	29	1342	7.18	<5	<10	<4	5	357	1.3	<5	<5	323	4.31	.150	24	20	2.78	2005	.62	8.99	1.78	2.27	<4	69	<2	23	30	2	19
112730 KNA	4	4	37	14	<.5	5	3	25	.25	8	<10	<4	<2	234	<.4	<5	<5	20	.11	.023	<2	61	.03	4697	.01	.26	.01	.06	<4	5	<2	<2	2	<1	<1
STANDARD DST3	11.124	41	171	.6	40	14	1050	4.00	32	<10	<4	6	224	5.6	7	7	133	1.58	.110	25	300	.96	1051	.40	7.12	1.78	2.12	9	47	7	16	9	3	10	

GROUP 1E - 0.25 GM SAMPLE DIGESTED WITH HClO₄-HNO₃-HCL-HF TO 10 ML. UPPER LIMITS - AG, AU, W = 200 PPM; MO, CO, CD, SB, BI, TH & U = 4,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM. DIGESTION IS PARTIAL FOR SOME MINERALS & MAY VOLATIZE SOME ELEMENTS, ANALYSIS BY ICP-ES.
- SAMPLE TYPE: ROCK R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JAN 16 2002 DATE REPORT MAILED: Jan 24/02 SIGNED BY: C. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE

MacArthur, Ron File # A200138

1208 - 1328 Homer St., Vancouver BC V6H 6A7 Submitted by: Ron MacArthur

Soil Silt Geochem

OKT Claims
Appendix 1c

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Sn	Y	Nb	Be	Sc	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
G-1	<2	6	23	49	.5	8	3	808	2.32	9	<10	<4	9	713	.7	<5	<5	50	2.67	.099	29	14	.62	1002	.24	7.94	2.65	3.07	4	7	<2	17	23	3	6	
112651	4	37	38	282	.5	50	15	742	3.08	20	11	<4	12	91	1.9	<5	7	181	1.08	.194	44	63	.72	3024	.36	4.63	.47	1.84	<4	36	2	13	6	2	9	
112652	3	23	42	193	<.5	29	12	679	3.22	21	<10	<4	15	162	1.1	<5	<5	86	3.61	.118	57	47	1.30	2318	.60	4.37	.56	1.63	<4	37	<2	10	10	2	7	
112654	<2	17	16	428	<.5	28	8	529	2.65	12	<10	<4	14	89	3.3	<5	<5	71	3.79	.177	60	47	1.52	1459	.54	3.84	.48	1.51	<4	32	<2	8	11	1	6	
112661	4	29	34	212	<.5	40	12	672	3.34	19	<10	<4	15	182	1.6	<5	<5	115	3.75	.137	62	44	1.14	1272	.69	3.86	.44	1.48	<4	35	2	10	7	1	6	
112663	2	14	<5	230	<.5	40	2	328	.22	8	<10	<4	<2	329	8.0	<5	<5	12	27.61	.072	6	53	.28	431	.03	.38	.04	.08	<4	5	<2	5	3	<1	1	
112667	<2	30	24	92	<.5	47	26	1645	4.02	15	13	<4	10	97	.8	<5	<5	132	1.14	.080	37	97	1.04	938	.40	5.68	.78	1.80	<4	45	2	18	7	2	13	
112668	2	33	18	101	<.5	48	26	1702	3.99	11	<10	<4	9	99	.8	<5	<5	136	1.20	.085	34	100	1.05	1490	.35	5.85	.81	1.85	<4	40	<2	18	4	2	13	
RE 112668	<2	33	22	101	<.5	50	25	1706	3.97	12	<10	<4	8	99	.9	<5	<5	136	1.19	.085	34	98	1.04	1482	.35	5.89	.77	1.84	<4	44	2	18	6	1	13	
112671	4	33	18	194	.6	52	22	1316	3.57	24	<10	<4	9	87	1.7	<5	6	259	1.18	.107	27	92	1.09	2365	.32	5.33	.59	2.03	<4	40	<2	16	2	2	11	
112672	3	50	16	167	<.5	53	21	1338	3.40	16	<10	<4	10	103	1.7	13	<5	209	1.27	.107	30	85	1.08	2424	.30	5.44	.67	2.00	<4	42	<2	16	2	2	11	
112673	5	32	18	141	.5	50	21	1215	3.20	18	<10	<4	8	97	1.6	<5	<5	187	1.13	.096	35	83	.96	2671	.31	5.02	.69	1.82	<4	31	2	16	4	2	10	
112674	2	36	19	102	<.5	55	23	1334	4.13	13	<10	<4	10	148	1.3	<5	7	150	1.79	.093	38	101	1.03	997	.38	6.47	.91	2.06	<4	57	3	16	7	2	13	
112675	3	47	23	108	<.5	58	28	1427	4.18	22	<10	<4	12	122	.5	<5	6	150	1.05	.142	41	95	1.04	1155	.33	5.98	.87	2.01	<4	50	2	17	7	2	12	
112678	<2	38	14	87	.5	49	22	1223	3.57	15	<10	<4	13	142	.9	<5	<5	132	1.41	.113	42	83	.98	993	.32	5.66	.93	1.86	<4	44	<2	16	7	2	11	
112679	2	35	20	84	<.5	43	19	953	3.40	15	<10	<4	10	138	.8	<5	<5	123	1.14	.113	40	87	.90	768	.36	5.30	1.03	1.69	<4	43	<2	14	6	2	10	
112690	<2	55	28	117	<.5	68	26	1139	5.03	15	<10	<4	13	112	.8	<5	<5	152	1.06	.084	38	116	1.26	1135	.33	7.68	.58	2.50	<4	64	3	25	8	3	19	
112691	<2	45	15	106	<.5	61	22	927	4.56	19	<10	<4	10	92	.7	<5	<5	145	.60	.075	34	106	1.13	1195	.31	7.19	.58	2.55	<4	60	3	18	6	3	14	
112692	52	99	18	525	.7	136	18	513	4.73	57	<10	<4	11	101	6.0	18	<5	1178	.72	.289	31	195	1.23	3428	.34	7.78	.57	2.65	<4	99	3	23	39	4	18	
112693	14	61	17	301	<.5	109	22	711	4.24	26	<10	<4	11	103	1.6	5	<5	342	.93	.141	36	117	1.16	1237	.34	6.71	.86	2.27	<4	52	2	22	<2	2	14	
112694	<2	31	18	113	<.5	47	14	594	3.08	15	<10	<4	8	83	.7	<5	<5	135	1.15	.101	33	86	.85	655	.41	4.25	.89	.84	<4	36	2	11	4	2	10	
112695	<2	18	11	62	<.5	35	13	740	3.64	19	<10	<4	9	98	.5	<5	8	111	1.44	.075	38	90	.95	612	.56	4.59	.87	1.17	<4	36	<2	13	7	1	11	
112696	<2	19	8	62	<.5	38	15	1051	3.30	17	<10	<4	9	107	<.4	<5	<5	106	1.47	.064	35	86	.95	602	.53	4.56	.86	1.36	<4	38	<2	13	8	1	11	
112697	<2	30	14	97	<.5	49	21	926	4.17	10	<10	<4	9	106	<.4	<5	<5	133	.68	.079	30	105	1.12	913	.32	6.07	.93	2.22	<4	45	<2	10	4	2	11	
112698	3	32	34	316	1.0	38	10	399	3.94	26	<10	<4	10	85	1.6	<5	<5	211	.54	.497	35	87	.69	1578	.32	5.20	.62	1.97	<4	50	<2	8	6	2	9	
112699	<2	16	22	130	<.5	37	15	737	3.66	18	<10	<4	15	52	1.3	<5	6	81	.66	.114	56	55	.75	1344	.76	4.63	.51	1.87	<4	31	2	9	13	2	8	
112727	2	37	25	142	<.5	70	39	2976	5.54	13	<10	<4	10	117	.7	<5	7	154	1.22	.103	37	127	1.29	1178	.33	7.73	.84	2.29	<4	44	3	20	4	2	18	
112728	6	34	17	192	<.5	68	35	7552	4.83	21	<10	<4	6	93	1.3	<5	8	300	.92	.120	32	107	1.07	1648	.27	6.11	.64	1.83	<4	43	2	16	<2	2	13	
112729	6	26	15	1035	.5	102	13	1034	2.85	18	<10	<4	9	76	10.2	<5	6	220	.91	.141	32	66	.63	3084	.40	3.95	.54	1.54	<4	29	2	10	4	1	7	
STANDARD DST3	10	124	40	172	.5	42	14	1088	4.09	30	<10	<4	6	232	5.6	6	5	131	1.61	.109	24	296	.94	1069	.39	7.12	1.83	2.19	6	48	7	14	9	4	10	

GROUP 1E - 0.25 GM SAMPLE DIGESTED WITH HClO₄-HNO₃-HCl-HF TO 10 ML. UPPER LIMITS - AG, AU, W = 200 PPM; MO, CO, CD, SB, BI, TH & U = 4,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM. DIGESTION IS PARTIAL FOR SOME MINERALS & MAY VOLATIZE SOME ELEMENTS, ANALYSIS BY ICP-ES.
- SAMPLE TYPE: SILT SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JAN 16 2002 DATE REPORT MAILED: Jan 24/02 SIGNED BY: C. Leong D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE

MacArthur, Ron File # A200137

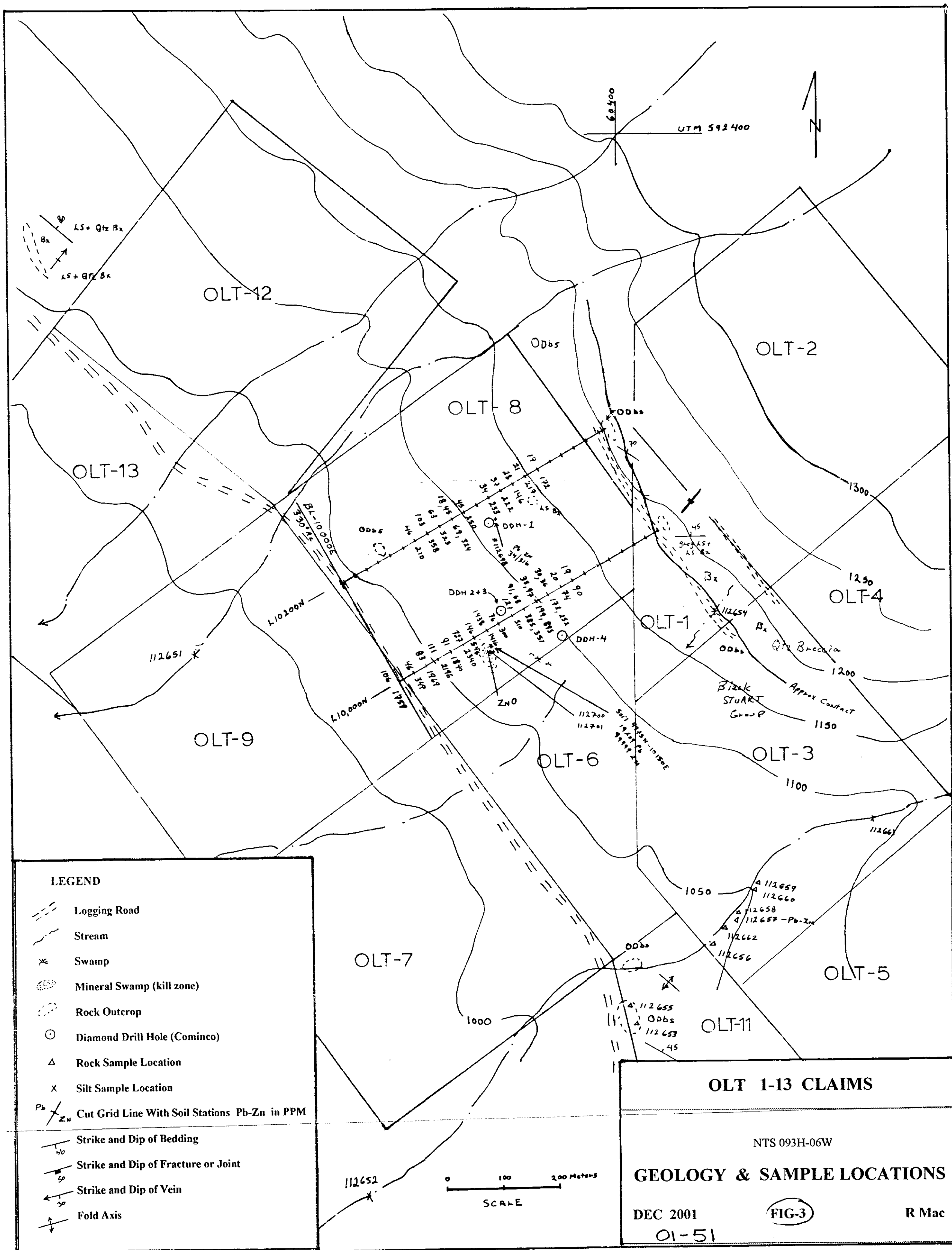
1208 - 1328 Homer St., Vancouver BC V6B 6A7 Submitted by: Ron MacArthur

Appendix 1d
OLT Claims

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Sn	Y	Nb	Be	Sc	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
G-1	<2	3	12	46	<.5	5	4	823	2.27	<5	<10	<4	8	737	.5	<5	<5	51	2.71	.101	29	20	.63	1034	.25	8.34	2.47	3.21	5	8	<2	19	22	3	6	
10200N 10150E	3	26	46	210	.5	24	7	256	3.64	18	<10	<4	9	76	.9	<5	<5	141	.29	.457	41	81	.50	1294	.33	5.41	.39	2.10	<4	46	4	7	5	2	9	
10200N 10175E	3	36	103	358	.9	31	11	620	3.12	27	12	<4	12	79	1.0	<5	<5	106	.34	.176	50	70	.51	1104	.26	4.66	.55	1.87	<4	42	2	8	6	2	7	
10200N 10200E	4	60	63	323	<.5	41	14	562	5.31	34	15	<4	13	77	1.4	<5	<5	136	.31	.558	49	92	.55	1401	.23	5.99	.45	2.18	<4	52	2	11	4	2	9	
10200N 10225E-A	2	10	18	69	<.5	10	3	225	1.33	7	<10	<4	11	61	.7	<5	<5	120	.16	.040	58	72	.38	1043	.44	4.62	.51	2.05	<4	47	3	5	10	1	9	
10200N 10225E-B	6	74	45	324	.8	48	12	650	5.09	38	15	<4	13	91	1.8	<5	<5	227	.63	.905	53	101	.63	2300	.36	6.81	.38	2.32	<4	77	4	16	7	2	11	
10200N 10250E	3	49	45	250	<.5	35	12	379	5.61	25	<10	<4	16	77	1.2	<5	<5	135	.30	.660	62	87	.54	1547	.47	5.84	.27	2.27	<4	50	2	10	6	2	10	
10200N 10300E	5	25	34	233	<.5	45	13	391	3.12	18	14	<4	11	78	1.3	6	<5	218	.42	.174	56	70	.70	1358	.30	5.70	.56	2.08	<4	42	2	11	5	2	9	
10200N 10325E	5	21	37	222	<.5	29	10	365	4.26	16	<10	<4	12	76	1.4	<5	<5	161	.42	.217	48	86	.61	1317	.34	6.15	.54	1.95	<4	38	2	10	5	2	10	
10200N 10350E	3	19	28	146	<.5	25	7	268	2.82	7	<10	<4	12	68	.8	<5	<5	161	.38	.231	50	76	.57	1386	.33	5.27	.51	1.93	<4	41	2	8	6	2	9	
10200N 10375E	6	25	21	217	<.5	42	12	365	2.79	16	<10	<4	9	74	1.3	6	<5	240	.47	.240	49	74	.62	1302	.26	5.01	.47	1.95	<4	37	2	10	2	1	8	
10200N 10400E	4	22	19	172	.5	30	11	375	3.04	9	13	<4	11	61	.9	<5	<5	144	.36	.207	50	77	.60	1025	.29	5.20	.48	2.03	<4	42	2	8	6	2	8	
RE 10200N 10400E	3	22	19	167	<.5	29	11	363	2.94	12	<10	<4	10	59	.8	<5	<5	139	.36	.200	48	76	.58	998	.29	4.97	.46	1.97	<4	41	2	7	6	2	8	
10000N 10000E	2	29	106	1759	.9	48	19	682	4.58	25	18	<4	13	95	4.7	5	<5	95	.92	.158	47	81	.56	1376	.25	5.96	.41	1.76	<4	36	2	20	5	2	11	
10000N 10025E	2	12	46	349	<.5	12	7	269	2.80	14	<10	<4	10	72	1.8	<5	<5	84	.58	.071	43	59	.35	991	.27	4.45	.46	1.61	<4	38	2	6	6	1	8	
10000N 10050E	3	20	83	1969	<.5	33	15	720	3.56	19	<10	<4	15	88	6.0	<5	<5	75	.69	.121	53	62	.43	1234	.21	4.70	.44	1.62	<4	37	<2	13	6	1	9	
10000N 10075E	2	21	111	2196	.8	27	15	664	4.31	23	11	<4	15	84	6.9	5	<5	67	.71	.160	58	59	.36	1239	.22	4.56	.39	1.49	<4	38	<2	16	5	1	9	
10000N 10100E	<2	15	91	1840	<.5	22	10	462	2.65	19	<10	<4	16	77	8.1	<5	<5	54	.46	.113	58	47	.33	983	.20	3.54	.39	1.41	<4	35	<2	8	5	1	6	
10000N 10125E	<2	22	727	2340	<.5	27	22	671	4.10	26	<10	<4	14	70	13.8	<5	<5	37	.86	.176	42	43	.25	1158	.14	4.08	.21	.81	<4	29	<2	8	4	1	6	
10000N 10150E	3	28	146	545	<.5	34	13	460	5.35	42	<10	<4	15	90	2.2	6	5	114	.29	.339	56	77	.45	1770	.27	6.03	.47	2.09	<4	46	2	8	4	2	10	
10000N 10175E	3	28	1438	1416	1.1	48	19	710	6.34	50	<10	<4	14	109	3.5	8	<5	141	.57	.626	46	73	.41	1991	.19	5.72	.36	1.89	<4	39	2	11	<2	2	8	
10000N 10200E	2	18	76	300	<.5	30	11	349	3.61	19	<10	<4	12	74	1.0	5	<5	99	.34	.199	53	64	.48	1176	.27	4.56	.49	1.84	<4	41	2	8	5	2	7	
10000N 10225E	3	24	121	310	.6	37	18	822	3.74	25	<10	<4	14	91	1.3	6	<5	126	.52	.205	59	75	.54	2008	.27	5.21	.43	2.15	<4	42	3	13	4	2	9	
10000N 10250E-A	3	20	91	385	<.5	29	13	520	3.64	27	<10	<4	13	79	1.4	<5	<5	150	.41	.370	49	78	.57	1576	.28	5.21	.53	2.07	<4	36	2	7	5	2	8	
10000N 10250E-B	4	26	68	351	<.5	45	13	553	3.13	26	<10	<4	12	89	1.6	<5	<5	144	.57	.217	55	71	.64	1370	.29	5.11	.60	2.00	<4	39	2	12	5	1	9	
10000N 10275E-A	3	16	33	199	<.5	23	7	297	3.04	20	<10	<4	11	73	1.0	<5	<5	174	.39	.217	55	86	.58	1283	.37	5.36	.55	2.07	<4	46	4	8	6	1	9	
10000N 10275E-B	11	144	97	893	.9	123	13	232	7.78	80	<10	<4	14	145	2.0	16	5	222	.66	.787	32	87	.58	2829	.13	6.12	.13	2.67	<4	73	2	24	<2	3	11	
10000N 10300E-A	2	14	30	173	<.5	25	10	350	3.63	14	<10	<4	14	76	1.1	6	<5	133	.39	.157	60	79	.62	1093	.35	6.06	.63	2.03	<4	41	2	8	6	2	10	
10000N 10300E-B	4	29	36	252	<.5	50	17	697	3.74	16	<10	<4	13	69	1.3	<5	<5	162	.47	.220	50	86	.72	2007	.31	6.45	.46	2.62	<4	42	3	10	5	2	10	
10000N 10325E	9	30	20	274	.9	62	13	293	4.24	30	<10	<4	10	64	1.5	5	<5	280	.41	.329	43	94	.73	1404	.25	6.04	.41	2.28	<4	43	2	11	<2	2	9	
10000N 10350E	3	57	19	90	.7	16	4	240	1.92	15	<10	<4	12	80	.9	6	<5	144	.21	.079	58	80	.40	1053	.41	4.58	.51	1.88	<4	53	4	8	11	1	8	
9975N 10150E-A	3	18	67	652	<.5	25	12	338	5.08	26	<10	<4	17	77	1.4	6	<5	94	.22	.228	70	71	.42	1252	.27	4.94	.45	1.68	<4	50	2	8	6	2	7	
9975N 10150E-B	6	124	19209	99999	22.9	29	<2	693	40.47	749	<10	<4	6	17	352.2	213	<5	31	.19	.060	16	<2	.17	266	.02	1.73	.02	.24	<4	8	3	25	<2	3	7	
STANDARD DST3	10	126	40	176	<.5	42	15	1125	4.14	32	<10	<4	7	239	5.5	6	6	134	1.65	.110	25	303	.96	1115	.40	7.03	1.77	2.21	7	47	7	16	7	3	10	

GROUP 1E - 0.25 GM SAMPLE DIGESTED WITH HClO₄-HNO₃-HCL-HF TO 10 ML. UPPER LIMITS - AG, AU, W = 200 PPM; MO, CO, CD, SB, BI, TH & U = 4,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM. DIGESTION IS PARTIAL FOR SOME MINERALS & MAY VOLATIZE SOME ELEMENTS, ANALYSIS BY ICP-ES.
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DATE RECEIVED: JAN 16 2002 DATE REPORT MAILED: Jan 24/02 SIGNED BY: C. L. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



SECTION II APOLLO PROPERTY

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1.0 INTRODUCTION

The Apollo 1-4 claims were staked by the author on July 20, 1999 to cover a known occurrence of bedded barite. The Apollo 5 to 10 were staked on September 8, 2001 to cover reported bedded barite to the north of the Apollo 1-4. This report describes the results of work performed by the author on the Apollo 1-10 claims between September 8 and October 11, 2001. The purpose of the work was to evaluate the main barite showing and to explore for further barite horizons. The area was also evaluated for potential "sedex" Zn-Pb-Ag-Ba mineralization

2.0 LOCATION AND ACCESS

The Apollo property is located on the east side of the Bowron River approx. 80 Km south east of Prince George and 3.5 km north of the junction of Hagen Creek and Bowron River on NTS map sheet 93H12E

Access is by way of Highway 16 east from Prince George and south along the main Bowron Forest Service Road which passes through the west side of the claims. The main barite showing can be reached on foot along Barite Creek approx 500 meters from the Bowron Forest Service Road. The area was logged sometime prior to 1984 and a number of old access roads remain but are clogged with windfall and underbrush.

3.0 CLAIM DATA

The property currently consists of ten "two-post" claims as listed below. The Apollo 5 to 10 claims were staked on Sept 8, 2001 as part of this project.

Claim	Tenure #	Record Date	Units
Apollo-1	370773	July 20, 1999	1
Apollo-2	370774	July 20, 1999	1
Apollo-3	370775	July 20, 1999	1
Apollo-4	370776	July 20, 1999	1
-----	-----	-----	
Apollo-5	389914	Sept. 8, 2001	1
Apollo-6	389915	Sept. 8, 2001	1
Apollo-7	389916	Sept. 8, 2001	1
Apollo-8	389917	Sept. 8, 2001	1
Apollo-9	389918	Sept. 8, 2001	1

4.0 PHYSIOGRAPHY

The area lies on the east edge of the main Bowron River Valley a very broad mature river valley. Elevations ASL range from 820 meters to 980 meters on the property. Moving east from the Bowron River Valley the topography rises sharply the first 50 to 100 meters, and then slopes more gently unto a rolling plateau at 980 to 1000meters elv.

The primary old growth forest in the area consists of large mature spruce pine and fir. The steam valleys are choked with alder and devils club. Since most of the area has been logged natural forest is limited to steep slopes and immediately creek banks. The logged areas have been replanted and now have regenerated with a thick cover of pine and deciduous trees generally less than 20cm diameter. Deciduous underbrush, alder and devils club are quite dense in many places.

5.0 PREVIOUS WORK

The first recorded property scale exploration work in the area was conducted by Newmont in 1985-86. They staked the property based on an area high Ba values in stream

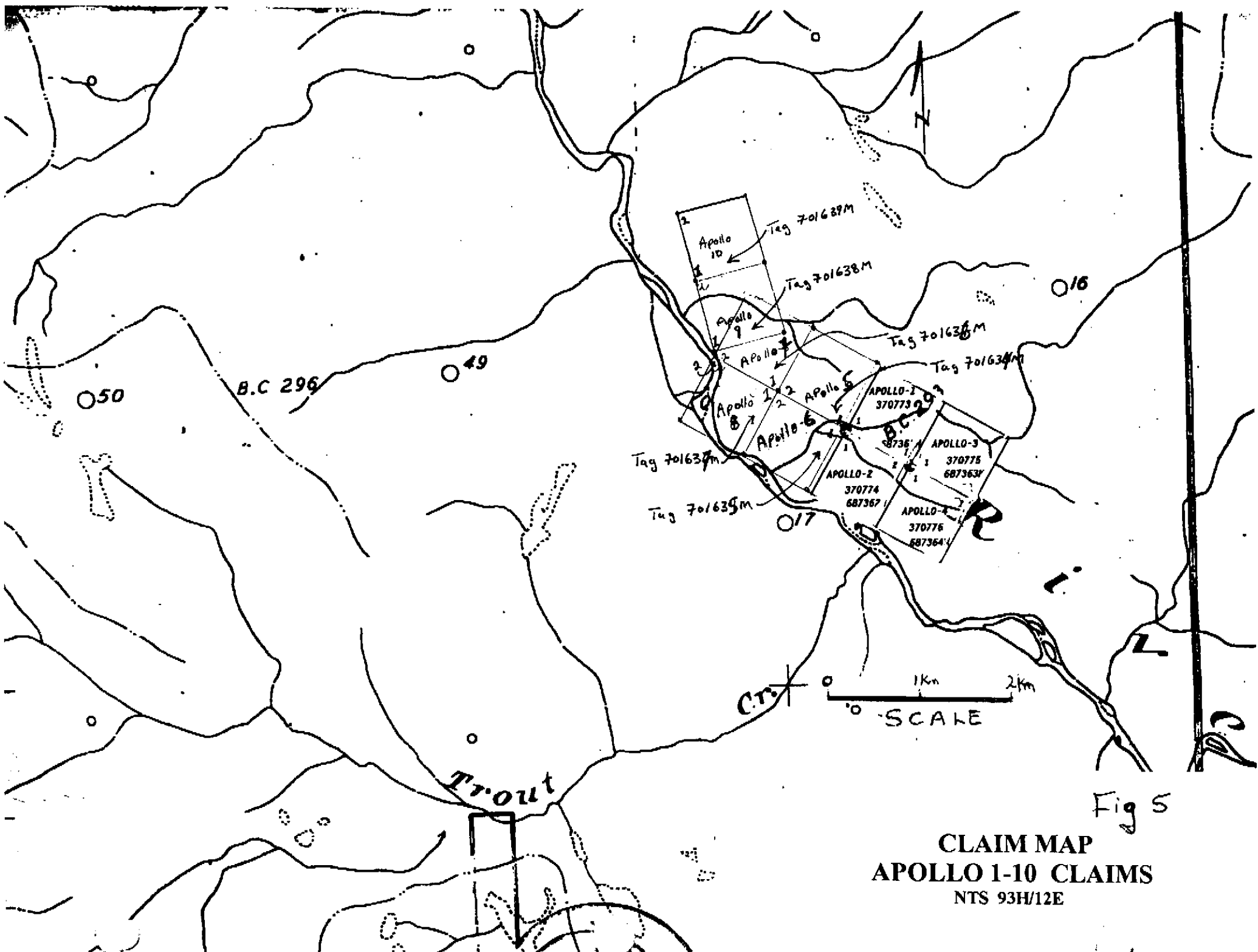


Fig 5
CLAIM MAP
APOLLO 1-10 CLAIMS
NTS 93H/12E

sediments outlined in the British Columbia Regional Geochemical Survey released in 1985. Work by Newmont was directed at exploring the area for "sedex" Zn-Pb-Ag-Ba deposits. Their exploration crews discovered float and outcrops of bedded barite along what is here referred to as Barite Creek. (FIG-3). Their work mainly consisted of geochemical sampling and geological mapping. From their reports it appears that the barite mineralization was of little interest to Newmont other than as an indicator of a favourable setting for base metals. As Newmont essentially withdrew from exploration in BC in the late 1980's the property was allowed to lapse. Newmont's work is reported in assessment report #s14999

In 1993 the main barite mineralization was staked by two former Newmont employees who conducted hand trenching and sampling on the barite outcrops on Barite Creek. The results of their work are reported in assessment reports # 23339 and #23887.

The property was examined by the author in 1998. In July 1999 four units (Apollo1-4) were staked to cover the main barite showings on Barite Creek and possible southward extensions. A short sampling and mapping program was conducted by the author in 1999.

6.0 REGIONAL GEOLOGY

The property lies within the Cariboo Terrane as described by Struik. The Cariboo Terrane consists of a sequence of sedimentary rocks from Precambrian to Permo-Triassic in age that lie in fault contact with the western margin of the North American Craton. Within the Cariboo Terrane an Ordovician unconformity separates a Cambrian and older sequence from an Ordovician and younger sequence. In the property area the older sequence of rocks belong to the Cariboo Group which in this area includes the Yanks Peak Formation (quartzite), the Midas Formation (shale, slate, quartzite, etc.), The Mural Formation (limestone) and the Dome Creek Formation (shale, slate and limestone). The younger sequence is comprised of the Upper Ordovician-Lower Mississippian Black Stuart Group as described by Struik (1988). These rocks are considered to be correlative with similar age basinal sediments that host sedex Zn-Pb-Ag and barite deposits in the Kechika Trough and Selwyn Basin in Northern BC and Yukon. Although poorly exposed in the region rocks of the Black Stuart Group have been traced by the author in scattered outcrops as far south as Indianpoint Creek, a distance of more than 25km, where they host significant occurrences of Zn-Pb mineralization.

To the west of the property Mississippian to Permian rocks of the Slide Mountain Group, (Slide Mountain Terrane) consisting of diorite, basalt, chert, cherty argillite, slate, serpentine and mafic schist are thrust eastward over the Black Stuart Group. These rocks of marine rift origin are part of a huge thrust sheet that moved east against and over rocks of the Cariboo Terrane that are of continental shelf origin.

6.1 Property Geology

Most of the property is covered with a veneer of glacial sediments including some clay rich layers. Consequently outcrop is largely restricted to stream cuts, steep slopes and road cuts. The best exposures are along Barite Creek and along the main road.

Based upon the limited exposure available the claim area appears to be entirely underlain by a highly deformed sequence of black carbonaceous sedimentary rocks including graphitic phyllite, black slate, cherty argillite and dark dolomitic limestone and sandstone. Pyrite is a common occurrence in these rocks and the bedded barite within the claim area is a local component. These rocks are most probably part of the Upper Ordovician-Lower Mississippian Black Stuart Group as described by Struik. These rocks are considered to be correlative with similar age basinal sediments that host major sedex Zn-Pb-Ag and barite deposits in the Kechika Trough and Selwyn Basin in Northern BC and Yukon.

A good section of stratigraphy is exposed in the bed of Barite Creek for some 250 -300 meters down stream from the location of the Initial Post for the Apollo 1 & 2 claims. In this

section a tightly folded and sheared section of pyritic black phyllite, argillite, siliceous shale and dolomitic sand stone is exposed. Bedding strikes generally 110° to 130° with steep dips both north and south. High amplitude folds with wavelengths of 2-3 meters can be observed. A strong axial plane cleavage often masks the bedding in the more fissile units. It is only in the more massive gritty or dolomitic units that bedding can be measured with confidence. In a few locations where it is possible to measure true bedding the fold axis strike east-southeast and plunge at low angles to the south.

Pyrite as nodules to 3cm and dissemination's to 3% is common. Quartz veins, boudins and discontinuous bedding plane veins up to 10cm are common in some sections. The previously discovered barite outcrops appear to be a conformable part of this sequence.

7.0 WORK PROGRAM 2001

7.1 Barite Showings

The author completed a continuous hand trench of some 12 meters length across the strike of the barite beds. Both the hanging wall and footwall shales were exposed as well as the barite. A continuous thickness of at least 8 to 10 meters of high-grade barite is indicated. The author's interpretation of these barite outcrops indicates a strike of 110 to 130° with steep dips (45 to 70 degrees) to the southwest. Hand trenching done by the previous owners has become very overgrown and covered with collapsed overburden. The author dug out a few of the pits and barite outcrops were exposed in a number of places. A minimum strike length of 35 meters is indicated by the trench and small pits.

At the main trench 10 continuous rock chip samples were collected across the exposed barite. These samples were submitted for 35-element ICP analysis to check for potential contaminants. No serious contaminants were noted. None of the samples were assayed for Ba as the author was advised that this is not normally done in the barite industry since Ba analysis only indicates the amount of barium not barite. (the Ba may be in the form of witherite or other minerals). Rather than Ba assays it is common to calculate the specific gravity and analyse for potential contaminants as well as doing some whole rock analysis to determine the amount of silica etc. The pulps were retained for additional study.

In addition three samples from the main trench and one from a pit #4 approximately 25 meters east were collected by Highwood Resources during a property visit in October and were tested for bulk density and brightness. Their results are included in the appendix. The specific gravity of four samples ranged from a low of 4.00 to a high of 4.35 with an average of 4.16. Their samples were also analysed by ICP for 30 elements. The sample locations are shown on Fig#7.

Five soil samples were collected in the area of the barite showing. Soil sample #112692 collected approximately 25 meters northwest along strike from the main showing is highly anomalous in Ba with 3428 ppm. By comparison a soil sample collected during July, 1999 just above an outcrop of massive barite at Pit#3 (see sample#168710) contained 3247 ppm Ba. This suggests additional 25 meters strike potential to the northwest for the barite beds.

7.2 Additional Sampling and Prospecting

Previous work by Newmont indicates that a small showing of barite was located in the creek bed of the first major creek north from Barite Creek. No base metals were associated so the barite was of no interest to Newmont. The exact location is not indicated on their maps.

The author prospected this creek in detail but failed to relocate the showing. Since the creek bed is choked with large windfall and debris for a few hundred meters in the most likely area, it is probable that a logjam covers the showing.

Five silt samples were collected along approx 500meters of the creek in the hopes of pinning down the location of the barite. All 5 samples are anomalous for Ba with the last sample upstream containing 1490 ppm Ba.

Four rock geochem samples were collected from outcrop in the streambed one sample #112665 is anomalous in Ba at 4259ppm and Cu at 645ppm. This was a chip sample from angular float of pyritic quartz veined black shale with traces of chalcopyrite and a grey metallic mineral. Similar material outcrops in the streambed but only pyrite was observed in the outcrop.

Six silt samples were collected from a number of small creeks draining the west facing slopes along the main road in the area of the claims. All the samples have elevated levels of Ba probably reflecting the high Ba content in the black shales. For these samples the highest value, at 1155 ppm Ba (sample # 112675) is from a small creek approximately 400 meters north of the Apollo 10 claim. Outcrops of Black Stuart Formation shales outcrop in this area. Two rock chip samples collected nearby are not anomalous.

Two silt samples collected approximately 300 meters upstream from the barite showings are both anomalous in Ba. Sample 112727 at 1178ppm Ba is from a small side creek that drains the area on strike from the showings. Sample 112728 at 1648ppm Ba is from the main stream 25 meters above the junction of the side creek. Both these samples suggest additional barite to the east of the main showing.

All the silt and rock geochem samples are plotted on Fig#6. The values for Ba are plotted beside the silt sample numbers.

7.3 Discussion of Results

The results of the hand trenching on the barite main showing are very encouraging. The author interprets the showing as one continuous bedded sequence some 6 to 10 meters true thickness with a dip into the hill at 40 to 60 degrees. In the main trench there are no shale or limestone interbeds and no evidence of faulting or quartz veins. The specific gravity results are within the range for economic grade barite and the ICP analysis indicate no serious contaminants. Pyrite appears to be restricted to the hanging wall and footwall zones. With a known strike of approx 35 meters and a strong soil geochem anomaly along strike to the northwest there is indication of at least 50 meters strike length. The along strike projection to the southeast is covered with heavy overburden beyond pit#4 so there is untested potential in that direction. The two anomalous silt sample silt samples collected more than 300meters east suggest the barite continuous in that direction.

The failure to locate the reported showing in the creek to the north is disappointing. More detailed prospecting at low water and fighting through the log jammed creek should eventually locate the showings.

No significant indications of base metals were noted in this program.

8.0 CONCLUSIONS AND RECCOMENDATIONS

The author concludes that the Apollo Property has good potential for production of significant tonnages of high-grade barite. The results of work to date indicate that the quality of the barite is acceptable for drill fluids. The outcrop thickness and strike length indicated suggest good potential for additional barite along strike from the main showings.

A review of the Western Canadian barite markets and industry cost structures should be completed. Although the property has good local access the distance to railroad is a significant factor. Preliminary cost estimates for transportation from the site to rail loading site should be compiled

If the above review is encouraging then a program of deep soil sampling, hand trenching and detail mapping should be followed by a mechanized trenching program and/or diamond drilling



GEOCHEMICAL ANALYSIS CERTIFICATE

MacArthur, Ron File # A200135

1208 - 1328 Homer St., Vancouver BC V6B 6A7 Submitted by: Ron MacArthur

Appendix 1a
Apollo Claims

Rx Geochem

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 %	Al %	Na %	K %	W ppm	Zr ppm	Sn ppm	Y ppm	Nb ppm	Be ppm	Sc ppm
S1	<2	3	27	56	.5	2	2	121	.08	<5	<10	<4	2	168	.5	6	<5	4	6.92	.012	5	11	.30	184	.03	1.15	9.85	.21	<4	98	4	5	2	1	<1
112680	2	6	<5	60	<.5	20	3	91	.19	7	13	<4	<2	132	1.3	<5	<5	16	2.28	.017	<2	7	1.40	2494	<.01	.31	<.01	.04	<4	4	<2	<2	3	<1	<1
112681	2	20	<5	25	<.5	13	2	13	.18	<5	<10	<4	<2	112	.6	<5	<5	8	.18	.011	<2	4	.11	2561	<.01	.36	.01	.03	<4	2	<2	<2	2	<1	<1
112682	2	7	<5	18	<.5	13	3	17	.24	8	<10	<4	<2	95	<.4	<5	<5	8	.10	.012	<2	3	.07	3336	.01	.26	<.01	.04	<4	6	<2	<2	2	<1	<1
112683	<2	3	<5	10	<.5	5	2	10	.14	7	<10	<4	<2	67	<.4	<5	<5	7	.02	.008	<2	4	.01	4924	<.01	.21	<.01	.03	<4	5	<2	<2	<2	<1	<1
112684	2	3	<5	9	<.5	2	3	<5	.14	<5	<10	<4	<2	47	<.4	<5	<5	6	.02	.007	<2	3	<.01	6649	.02	.19	<.01	.02	<4	5	<2	<2	2	<1	<1
112685	4	2	<5	6	<.5	2	2	<5	.20	7	<10	<4	<2	45	<.4	<5	<5	11	.01	.009	<2	4	<.01	4651	<.01	.30	.01	.06	<4	6	<2	<2	3	<1	<1
112686	4	2	<5	11	<.5	3	2	<5	.28	5	<10	<4	<2	39	<.4	<5	<5	23	.02	.004	<2	5	.01	3174	.01	.51	<.01	.12	<4	7	<2	<2	<2	<1	<1
112687	6	4	6	17	<.5	5	<2	<5	.49	<5	<10	<4	<2	69	<.4	<5	<5	32	<.01	.010	<2	8	.02	1137	.01	.78	<.01	.16	<4	8	<2	<2	<2	<1	<1
112688	37	8	8	61	<.5	29	4	26	1.27	25	<10	<4	<2	67	.5	<5	<5	78	.02	.051	<2	24	.04	349	.05	1.74	<.01	.31	<4	21	3	2	<2	1	<1
112689	47	24	8	65	<.5	36	4	5	2.02	25	14	<4	2	87	.4	11	<5	150	.04	.054	5	42	.07	679	.09	3.03	.01	.50	4	30	<2	2	3	2	1
112653	7	99	103	684	1.6	73	5	250	5.51	47	18	<4	3	129	4.8	17	10	122	7.44	.651	20	103	.98	146	.08	2.97	.03	1.61	<4	4	<2	26	2	1	5
112655	11	25	42	1210	<.5	42	17	217	8.12	29	<10	<4	2	465	1.4	<5	<5	43	1.86	1.055	7	124	.06	1350	.01	.92	.01	.24	14	2	<2	42	<2	1	9
112656	94	26	25	5463	<.5	767	79	1516	13.28	50	13	<4	9	66	5.0	<5	6	134	1.06	.165	30	103	.35	2783	.20	3.54	.14	1.59	<4	24	2	8	3	1	5
112659	<2	5	12	49	<.5	8	2	2845	3.75	8	<10	<4	<2	139	<.4	<5	<5	4	29.62	.028	5	10	4.46	772	<.01	.66	.29	<.01	<4	5	<2	4	<2	<1	<1
112660	4	2	<5	25	<.5	5	2	101	.31	<5	<10	<4	<2	9	.4	<5	<5	8	.69	.073	<2	108	.12	450	<.01	.18	.01	.03	<4	3	<2	<2	2	<1	<1
RE 112660	4	<2	<5	22	<.5	3	2	94	.30	<5	<10	<4	<2	9	<.4	<5	<5	8	.67	.074	<2	111	.12	446	<.01	.19	<.01	.03	<4	6	<2	<2	2	<1	<1
112662	2	4	8	2591	<.5	5	10	91	.24	<5	14	<4	<2	619	6.3	<5	<5	13	1.97	.694	5	49	.33	28134	<.01	.12	<.01	.03	<4	<2	17	3	<1	<1	
112664	13	14	9	133	<.5	24	3	109	.41	5	<10	<4	<2	390	2.5	<5	<5	329	14.63	.981	16	68	.33	1583	.04	1.07	.02	.46	<4	8	2	23	<2	<1	2
112665	6	645	<5	124	5.4	3	3	46	.24	60	<10	<4	<2	61	3.1	241	<5	11	.81	.282	<2	51	.08	4159	<.01	.58	.01	.29	<4	4	<2	6	2	<1	<1
112666	2	23	9	50	<.5	17	5	336	1.78	<5	<10	<4	5	126	.7	7	<5	55	3.79	.048	20	65	2.55	250	.12	5.62	.02	2.78	<4	36	3	10	3	2	7
112669	<2	19	<5	40	<.5	13	4	230	1.32	<5	<10	<4	6	130	.6	9	<5	43	3.69	.040	17	89	2.26	180	.08	3.98	.01	2.19	<4	31	<2	7	3	1	5
112670	8	77	<5	260	1.0	33	3	219	1.21	<5	<10	<4	2	263	3.5	45	<5	495	6.29	1.261	26	99	2.36	193	.09	3.38	<.01	1.69	<4	26	<2	32	<2	1	4
112676	19	86	11	111	<.5	52	8	218	5.88	22	<10	<4	8	105	1.5	<5	<5	594	.49	.440	38	135	1.26	901	.35	6.39	.06	2.63	<4	90	3	14	37	2	11
112677	2	8	9	7	<.5	6	2	53	.69	<5	<10	<4	3	4	<.4	5	<5	71	.07	.008	8	102	.18	217	.05	1.44	.02	1.22	<4	14	2	2	<2	1	3
112702 KNA	149	59	7	51	.7	6	4	296	1.70	140	<10	<4	2	80	.5	9	<5	36	.90	.018	5	72	.30	238	.07	2.76	.68	.54	<4	9	<2	4	2	<1	3
112703	8	196	21	115	<.5	43	3	27	3.34	38	<10	<4	9	121	1.0	5	<5	118	.07	.245	38	117	.45	1801	.12	3.58	.02	1.65	<4	66	2	16	9	2	5
112726 Apollo	<2	168	<5	112	<.5	16	29	1342	7.18	<5	<10	<4	5	357	1.3	<5	<5	323	4.31	.150	24	20	2.78	2005	.62	8.99	1.78	2.27	<4	69	<2	23	30	2	19
112730 KNA	4	4	37	14	<.5	5	3	25	.25	8	<10	<4	<2	234	<.4	<5	<5	20	.11	.023	<2	61	.03	4697	.01	.26	.01	.06	<4	5	<2	2	2	<1	<1
STANDARD DST3	11.124	41	171	.6	40	14	1050	4.00	32	<10	<4	6	224	5.6	7	7	133	1.58	.110	25	300	.96	1051	.40	7.12	1.78	2.12	9	47	7	16	9	3	<1	

GROUP 1E - 0.25 GM SAMPLE DIGESTED WITH HClO₄-HNO₃-HCl-HF TO 10 ML. UPPER LIMITS - AG, AU, W = 200 PPM; MO, CO, CD, SB, BI, TH & U = 4,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM. DIGESTION IS PARTIAL FOR SOME MINERALS & MAY VOLATIZE SOME ELEMENTS, ANALYSIS BY ICP-ES.
- SAMPLE TYPE: ROCK R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JAN 16 2002 DATE REPORT MAILED: Jan 24/02 SIGNED BY: C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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1716

GEOCHEMICAL ANALYSIS CERTIFICATE

MacArthur, Ron File # A200138

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Apollo Claims Appendix 16

Soil Silt Geochem

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Sn	Y	Nb	Be	Sc	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
G-1	<2	6	23	49	.5	8	3	808	2.32	9	<10	<4	9	713	.7	<5	<5	50	2.67	.099	29	14	.62	1002	.24	7.94	2.65	3.07	4	7	<2	17	23	3	6	
112651	4	37	38	282	.5	50	15	742	3.08	20	11	<4	12	91	1.9	<5	7	181	1.08	.194	44	63	.72	3024	.36	4.63	.47	1.84	<4	36	2	13	6	2	9	
112652	3	23	42	193	<.5	29	12	679	3.22	21	<10	<4	15	162	1.1	<5	<5	86	3.61	.118	57	47	1.30	2318	.60	4.37	.56	1.63	<4	37	<2	10	10	2	7	
112654	<2	17	16	428	<.5	28	8	529	2.65	12	<10	<4	14	89	3.3	<5	<5	71	3.79	.177	60	47	1.52	1459	.54	3.84	.48	1.51	<4	32	<2	8	11	1	6	
112661	4	29	34	212	<.5	40	12	672	3.34	19	<10	<4	15	182	1.6	<5	<5	115	3.75	.137	62	44	1.14	1272	.69	3.86	.44	1.48	<4	35	2	10	7	1	6	
112663	2	14	<5	230	<.5	40	2	328	.22	8	<10	<4	<2	329	8.0	<5	<5	12	27.61	.072	6	53	.28	431	.03	.38	.04	.08	<4	5	<2	5	3	<1	1	
112667	<2	30	24	92	<.5	47	26	1645	4.02	15	13	<4	10	97	.8	<5	<5	132	1.14	.080	37	97	1.04	938	.40	5.68	.78	1.80	<4	45	2	18	7	2	13	
112668	2	33	18	101	<.5	48	26	1702	3.99	11	<10	<4	9	99	.8	<5	<5	136	1.20	.085	34	100	1.05	1490	.35	5.85	.81	1.85	<4	40	<2	18	4	2	13	
RE 112668	<2	33	22	101	<.5	50	25	1706	3.97	12	<10	<4	8	99	.9	<5	<5	136	1.19	.085	34	98	1.04	1482	.35	5.89	.77	1.84	<4	44	2	18	6	1	13	
112671	4	33	18	194	.6	52	22	1316	3.57	24	<10	<4	9	87	1.7	<5	6	259	1.18	.107	27	92	1.09	2365	.32	5.33	.59	2.03	<4	40	<2	16	2	2	11	
112672	3	50	16	167	<.5	53	21	1338	3.40	16	<10	<4	10	103	1.7	13	<5	209	1.27	.107	30	85	1.08	2424	.30	5.44	.67	2.00	<4	42	<2	16	2	2	11	
112673	5	32	18	141	.5	50	21	1215	3.20	18	<10	<4	8	97	1.6	<5	<5	187	1.13	.096	35	83	.96	2671	.31	5.02	.69	1.82	<4	31	2	16	4	2	10	
112674	2	36	19	102	<.5	55	23	1334	4.13	13	<10	<4	10	148	1.3	<5	7	150	1.79	.093	38	101	1.03	997	.38	6.47	.91	2.06	<4	57	3	16	7	2	13	
112675	3	47	23	108	<.5	58	28	1427	4.18	22	<10	<4	12	122	.5	<5	6	150	1.05	.142	41	95	1.04	1155	.33	5.98	.87	2.01	<4	50	2	17	7	2	12	
112678	<2	38	14	87	.5	49	22	1223	3.57	15	<10	<4	13	142	.9	<5	<5	132	1.41	.113	42	83	.98	993	.32	5.66	.93	1.86	<4	44	<2	16	7	2	11	
112679	2	35	20	84	<.5	43	19	953	3.40	15	<10	<4	10	138	.8	<5	<5	123	1.14	.113	40	87	.90	768	.36	5.30	1.03	1.69	<4	43	<2	14	6	2	10	
112690	<2	55	28	117	<.5	68	26	1139	5.03	15	<10	<4	13	112	.8	<5	<5	152	1.06	.084	38	116	1.26	1135	.33	7.68	.58	2.50	<4	64	3	25	8	3	19	
112691	<2	45	15	106	<.5	61	22	927	4.56	19	<10	<4	10	92	.7	<5	<5	145	.60	.075	34	106	1.13	1195	.31	7.19	.58	2.55	<4	60	3	18	6	3	14	
112692	52	99	18	525	.7	136	18	513	4.73	57	<10	<4	11	101	6.0	18	<5	1178	.72	.289	31	195	1.23	3428	.34	7.78	.57	2.65	<4	99	3	23	39	4	18	
112693	14	61	17	301	<.5	109	22	711	4.24	26	<10	<4	11	103	1.6	5	<5	342	.93	.141	36	117	1.16	1237	.34	6.71	.86	2.27	<4	52	2	22	<2	2	14	
112694	<2	31	18	113	<.5	47	14	594	3.08	15	<10	<4	8	83	.7	<5	<5	135	1.15	.101	33	86	.85	655	.41	4.25	.89	.84	<4	36	2	11	4	2	10	
112695	<2	18	11	62	<.5	35	13	740	3.64	19	<10	<4	9	98	.5	<5	8	111	1.44	.075	38	90	.95	612	.56	4.59	.87	1.17	<4	36	<2	13	7	1	11	
112696	<2	19	8	62	<.5	38	15	1051	3.30	17	<10	<4	9	107	<.4	<5	<5	106	1.47	.064	35	86	.95	602	.53	4.56	.86	1.36	<4	38	<2	13	8	1	11	
112697	<2	30	14	97	<.5	49	21	926	4.17	10	<10	<4	9	106	<.4	<5	<5	133	.68	.079	30	105	1.12	913	.32	6.07	.93	2.22	<4	45	<2	10	4	2	11	
112698	3	32	34	316	1.0	38	10	399	3.94	26	<10	<4	10	85	1.6	<5	<5	211	.54	.497	35	87	.69	1578	.32	5.20	.62	1.97	<4	50	<2	8	6	2	9	
112699	<2	16	22	130	<.5	37	15	737	3.66	18	<10	<4	15	52	1.3	<5	6	81	.66	.114	56	55	.75	1344	.76	4.63	.51	1.87	<4	31	2	9	13	2	8	
112727	2	37	25	142	<.5	70	39	2976	5.54	13	<10	<4	10	117	.7	<5	7	154	1.22	.103	37	127	1.29	1178	.33	7.73	.84	2.29	<4	44	3	20	4	2	18	
112728	6	34	17	192	<.5	68	35	7552	4.83	21	<10	<4	6	93	1.3	<5	8	300	.92	.120	32	107	1.07	1648	.27	6.11	.64	1.83	<4	43	2	16	<2	2	13	
112729	6	26	15	1035	.5	102	13	1034	2.85	18	<10	<4	9	76	10.2	<5	6	220	.91	.141	32	66	.63	3084	.40	3.95	.54	1.54	<4	29	2	10	4	1	7	
STANDARD DST3	10	124	40	172	.5	42	14	1088	4.09	30	<10	<4	6	232	5.6	6	5	131	1.61	.109	24	296	.94	1069	.39	7.12	1.83	2.19	6	48	7	14	9	4	10	

GROUP 1E - 0.25 GM SAMPLE DIGESTED WITH HClO₄-HNO₃-HCL-HF TO 10 ML. UPPER LIMITS - AG, AU, W = 200 PPM; MO, CO, CD, SB, BI, TH & U = 4,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM. DIGESTION IS PARTIAL FOR SOME MINERALS & MAY VOLATIZE SOME ELEMENTS, ANALYSIS BY ICP-ES.
- SAMPLE TYPE: SILT SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JAN 16 2002 DATE REPORT MAILED: Jan 24/02 SIGNED BY: C. Leong D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



HIGHWOOD RESOURCES LTD.

Canada Talc, Mountain Minerals



10/31/01

QUALITY ASSURANCE DEPARTMENT Ph: (613) 472-2434, Fax: (613) 472-5467
E-mail: sueparks@reach.net

Heather;

Here are the results of the samples you sent so far

		A	B	G	YI	SG
				<i>70 Brightness</i>		
33124	Apollo	36.4	32.0	35.8	12.29	4.21
33125	Apollo	41.4	36.8	40.8	11.27	4.35
33126	Apollo	67.9	58.2	66.7	14.54	4.00
33127	Apollo	39.5	15.0	35.6	68.82	4.09

The Pulps were sent to IPL on October 26, 2001.

Suzanne Parks



INTERNATIONAL PLASMA LABORATORY LTD.

Highwood Resources Ltd.

Project : 102

Shipper : Heather Miree

Shipment: PO#:

Analysis:

ICP(AqR)30

Comment:

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 Fx: 403/264-2959
 Em: hwdheather@telusplanet.net

Apollo Claims, B.C.

cc: Ron M'Arthur

CERTIFICATE OF ANALYSIS

LPL 01K1232

4 Samples

Out: Nov 05, 2001 In: Nov 01, 2001



Vancouver B.C.

Canada E1

Phone (604) 879-7878

Fax (604) 879-7898

Email ipl@direct.ca

[123216:56:14:10110501]

CODE	AMOUNT	TYPE	PREPARATION	DESCRIPTION	PULP	REJECT
B31108	4 CoarsePu		Coarse Pulp	Sample pulv. & prep.	12M/Dis	00M/Dis
NS=No Sample Rep=Replicate M=Month Dis=Discard						
Analytical Summary						
#	Code	Method	Units	Description	Element	Limit
01	0721	ICP	ppm	Ag ICP	Silver	Low
02	0711	ICP	ppm	Cu ICP	Copper	0.1
03	0714	ICP	ppm	Pb ICP	Lead	1
04	0730	ICP	ppm	Zn ICP	Zinc	20000
05	0703	ICP	ppm	As ICP	Arsenic	1
06	0702	ICP	ppm	Sb ICP	Antimony	20000
07	0732	ICP	ppm	Hg ICP	Mercury	1
08	0717	ICP	ppm	Mo ICP	Molybdenum	999
09	0747	ICP	ppm	Tl ICP (Incomplete Digestion)	Thallium	1
10	0705	ICP	ppm	Bi ICP	Bismuth	10
11	0707	ICP	ppm	Cd ICP	Cadmium	2
12	0710	ICP	ppm	Co ICP	Cobalt	9999
13	0718	ICP	ppm	Ni ICP	Nickel	0.1
14	0704	ICP	ppm	Ba ICP (Incomplete Digestion)	Barium	99.9
15	0727	ICP	ppm	W ICP (Incomplete Digestion)	Tungsten	1
16	0709	ICP	ppm	Cr ICP (Incomplete Digestion)	Chromium	2
17	0729	ICP	ppm	V ICP	Vanadium	9999
18	0716	ICP	ppm	Mn ICP	Manganese	1
19	0713	ICP	ppm	La ICP (Incomplete Digestion)	Lanthanum	9999
20	0723	ICP	ppm	Sr ICP (Incomplete Digestion)	Strontium	2
21	0731	ICP	ppm	Zr ICP	Zirconium	1
22	0736	ICP	ppm	Sc ICP	Scandium	1
23	0726	ICP	x	Ti ICP (Incomplete Digestion)	Titanium	0.01
24	0701	ICP	x	Al ICP (Incomplete Digestion)	Aluminum	1.00
25	0708	ICP	x	Ca ICP (Incomplete Digestion)	Calcium	0.01
26	0712	ICP	x	Fe ICP	Iron	9.99
27	0715	ICP	x	Mg ICP (Incomplete Digestion)	Magnesium	0.01
28	0720	ICP	x	K ICP (Incomplete Digestion)	Potassium	0.01
29	0722	ICP	x	Na ICP (Incomplete Digestion)	Sodium	9.99
30	0719	ICP	x	P ICP	Phosphorus	0.01

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* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



INTERNATIONAL PLASMA LABORATORY LTD.

CERTIFICATE OF ANALYSIS iPL 01K1232



2036 Columbia Street
Vancouver, B.C.
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898
Email ipl@direct.ca

Client : Highwood Resources Ltd.
Project: 102

4 Samples
4=CoarsePulp

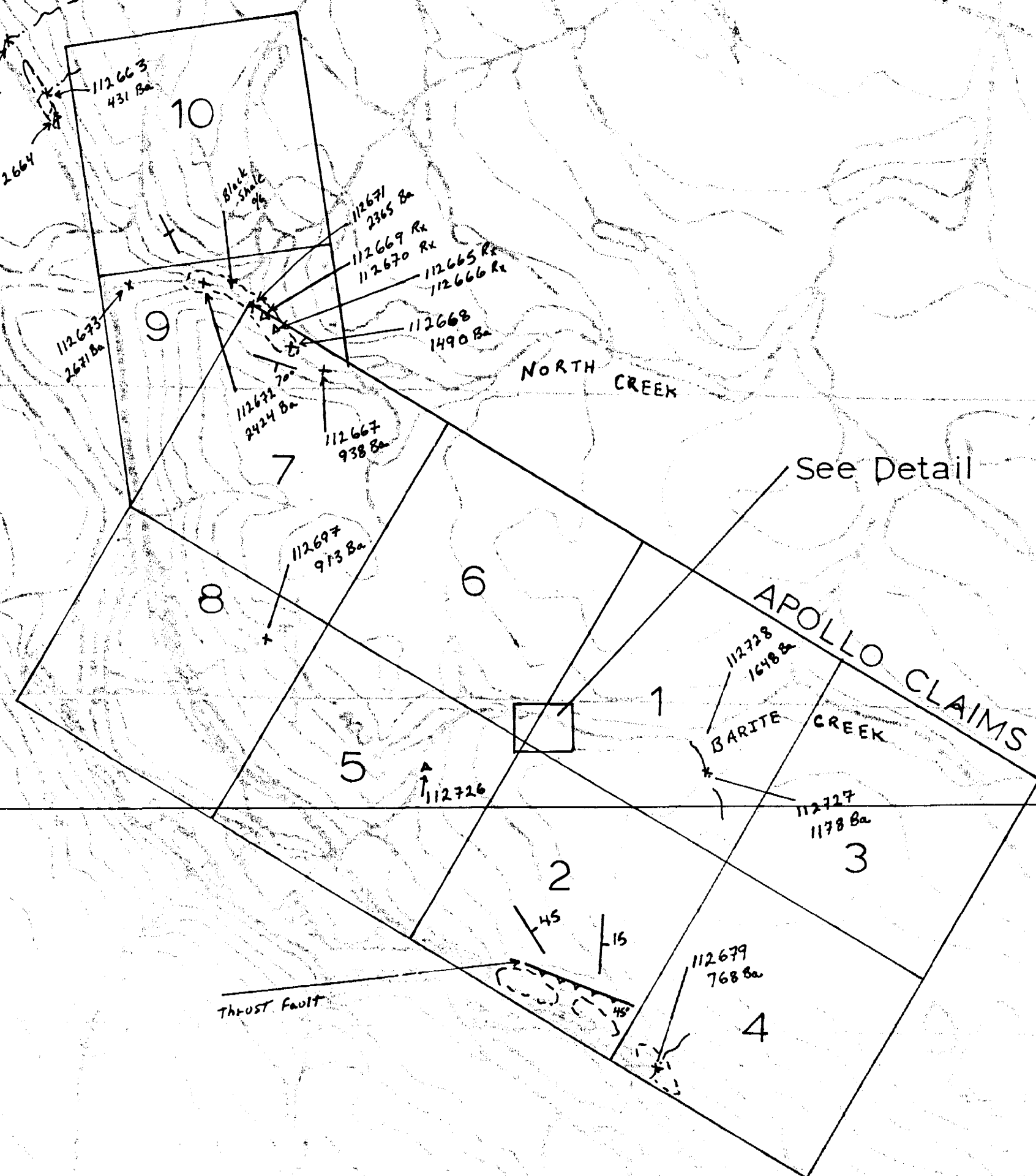
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Out: Nov 05, 2001
In : Nov 01, 2001

Page 1 of 1
Section 1 of 1

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %	
33124-112681 P	<	89	3	62	<	<	<	3	<	<	1.2	4	39	689	6	8	8	68	<	141	<	<	<	0.39	1.19	0.17	0.68	<	0.01	0.01	0.01
33125-112685 P	<	5	<	9	<	<	<	2	<	<	<	1	5	947	<	12	3	6	<	47	1	<	<	0.04	0.01	0.19	0.01	0.01	0.01	0.01	0.01
33126-112687 P	<	12	6	8	10	<	<	28	<	<	<	<	5	796	<	38	5	5	<	100	1	<	<	0.06	0.02	0.17	0.01	0.02	0.01	0.01	0.01
33127- Pit 4 P	<	21	<	63	<	<	<	4	<	<	<	4	23	916	<	11	5	26	<	47	1	<	<	0.34	0.01	0.99	0.01	0.01	0.01	0.01	<

Min Limit 0.1 1 2 1 5 5 3 1 10 2 0.1 1 1 2 5 1 2 1 2 1 1 1 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
 Max Reported* 99.9 20000 20000 20000 9999 999 9999 999 999 9999 99.9 9999 9999 9999 999 9999 9999 9999 9999 9999 9999 9999 9999 1.00 9.99 9.99 9.99 9.99 9.99 5.00 5.00
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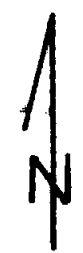
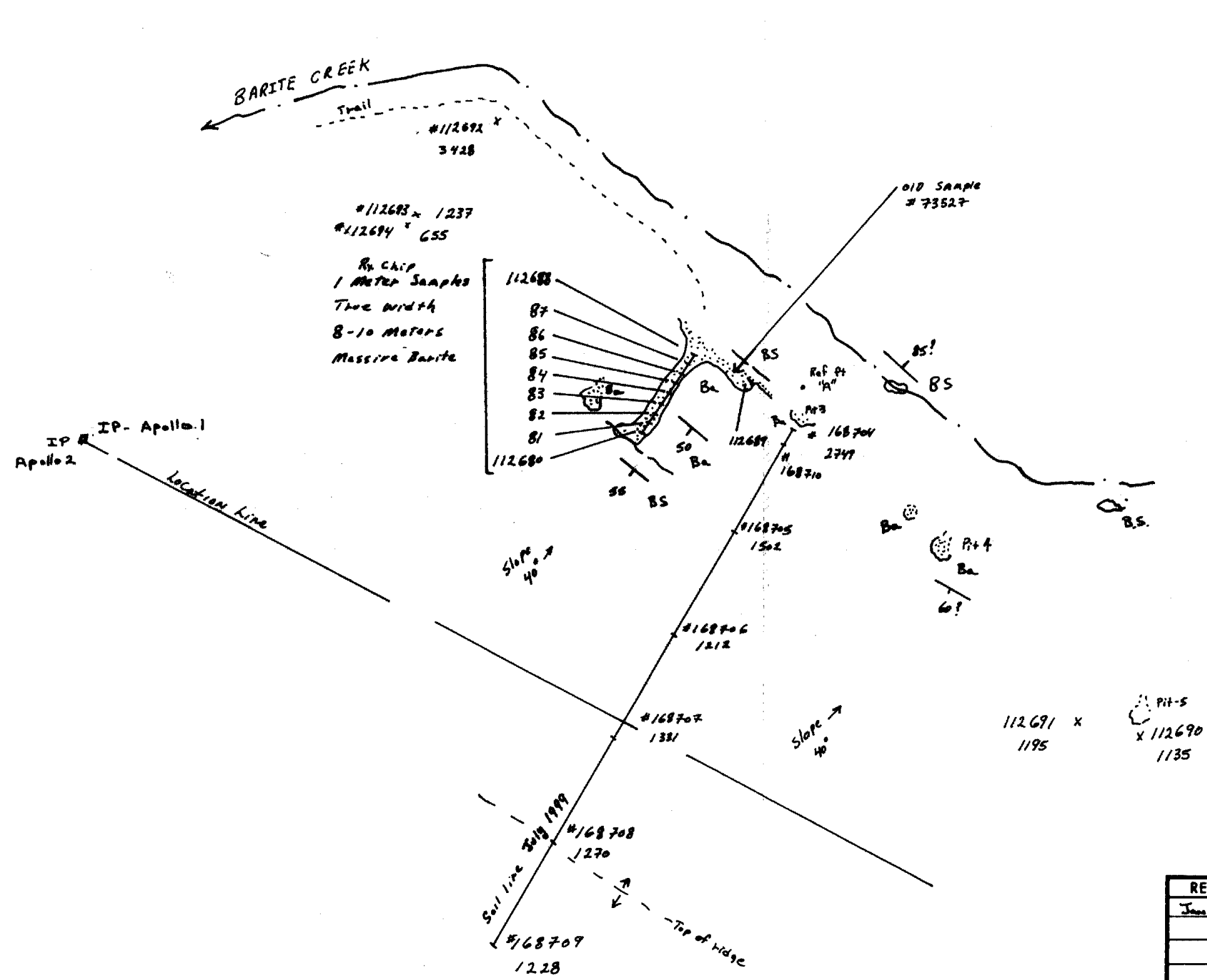


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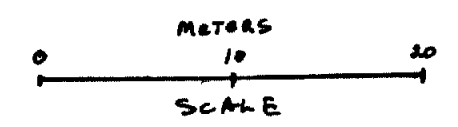
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APOLLO CLAIMS AREA
NTS 93H/12E
GEOLOGY AND SAMPLE LOCATIONS
01-51

Fig 6



- Legend
- Stream
 - Trail
 - Hand Trench in massive Barite
 - B.S. Black Shale
 - Ba Massive Barite
 - #112691 1195 Soil Sample Number Ba in PPM
 - Geological Contact
 - Strike + dip of bedding



REVISED	APOLLO BARITE TRENCH & SOIL SAMPLE LOCATIONS
June 2002	
PROJ. No. _____	Fig 7
N.T.S. _____	
DWG. No. _____	

SECTION III NEW PROPERTIES

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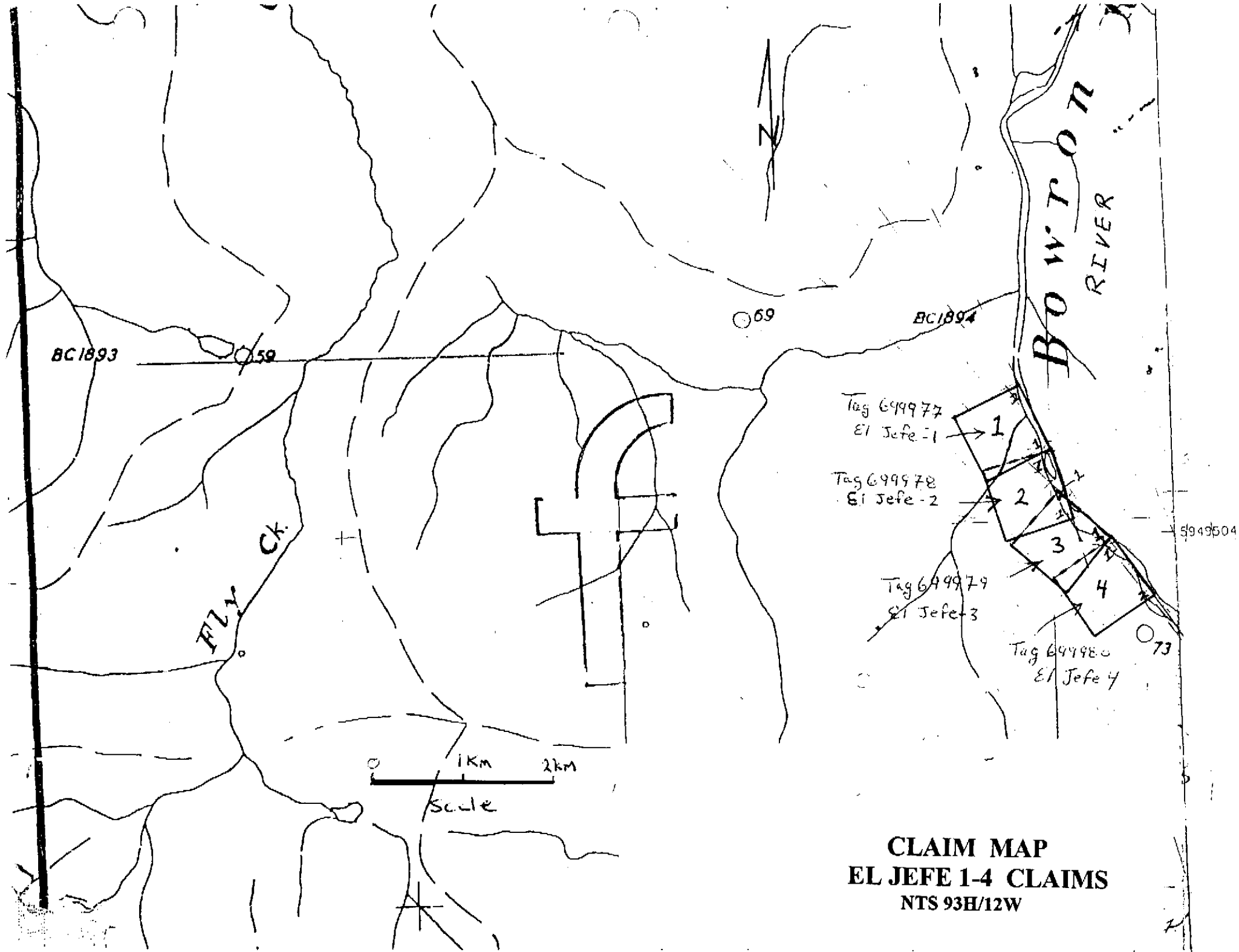
LIST OF FIGURES

Fig 8	CLAIM MAP EL JEFE CLAIMS
Fig 9	CLAIM SKETCH KNA CLAIMS
Fig 10	KNA CLAIMS GEOLOGY AND SAMPLE LOCATIONS
Appendix	Analytical Results

1) EL JEFE CLAIMS

On September 14, 2001 four units (El Jefe 1 to 4) were staked along the Bowron River approx 15 km Northwest of the Apollo Property on NTS map sheet 93H12W. These claims were staked to cover an area of high Ba in silts and a barite occurrence reported by Newmont. The showings are in the bed of a small creek on the west side of the Bowron River close to the junction with the river. The Barite occurrence was not visited for lack of means to cross the Bowron River. The claim locations are shown on Fig# 8.

The author proposes to examine the claims in 2002 by gaining access from the west side of the Bowron River



CLAIM MAP
EL JEFE 1-4 CLAIMS
NTS 93H/12W

2) KNA CLAIM AREA

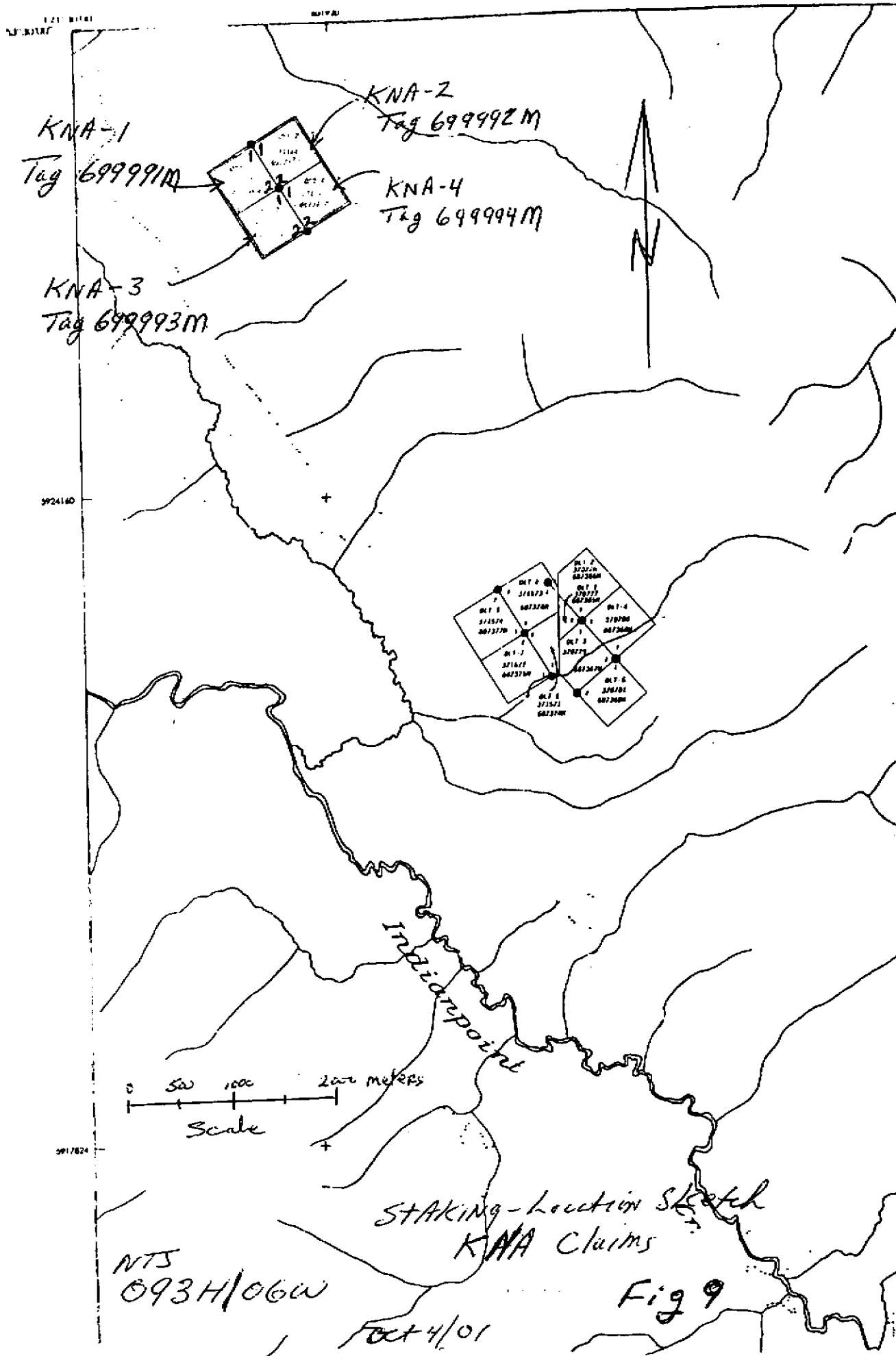
Four units were staked approximately four km north of the OLT Property. These claims were staked to cover a Pb-Zn-Ba soil geochem anomaly previously outlined by Kennco. The author prospected the area and found extensive outcrops of Quartz-Barite-Breccia. Minor amounts of galena and sphalerite were observed in large boulders in the area. The location of the claims is shown on Fig#9. The claims are on NTS map sheet 93H/06W

Four silt samples and three rock samples were collected for analysis from this area and north of the Hagen Road. Locations are plotted on Fig#10 along with the KNA claims. Silt sample # 112729 is anomalous in Zn (1035 ppm) and Ba (3084 ppm). This is probably reflecting the mineralized Quartz-Barite-Breccia in the area.

Sample # 112731 was a rock chip sample from a large boulder of quartz carbonate breccia that contained patchy galena and sphalerite. Although the assay results indicate only 0.14% Pb and 0.16% Zn, the field estimate was 1 to 2%. This probably reflects the patchy nature of the mineralization and the difficulty to get a representative sample because of the hard nature of the silica breccia.

A rock chip sample # 112730 collected from a quartz-barite breccia outcrop on the claim line between the KNA-1 and KNA-2 claims contained 4697 ppm Ba but is not anomalous for any metals.

Additional work is planned for this area in 2002.





ASSAY CERTIFICATE

Rx Assays

MacArthur, Ron File # A200136
1208 - 1328 Homer St., Vancouver BC V6B 6A7 Submitted by: Ron MacArthur

KNA CLAIMS

Appendix 1a

SAMPLE#		PB %	ZN %	AG gm/mt
SI		<.01	<.01	<.3
112657		1.74	.05	.8
OKT 112658		.01	<.01	.5
Claims 112700		.36	43.04	40.1
Fig 3 112701		.16	17.26	9.8
KNA Fig 10 112731		.14	.16	1.4
Claims STANDARD R-1		1.33	2.17	101.2

GROUP 7AR - 1.000 GM SAMPLE, AQUA - REGIA (HCL-HNO3-H2O) DIGESTION TO 100 ML, ANALYSED BY ICP-ES.
- SAMPLE TYPE: ROCK R150 60C

DATE RECEIVED: JAN 16 2002 DATE REPORT MAILED: Jan 23/02 SIGNED BY: C. Leong D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE

MacArthur, Ron File # A200135

1208 - 1328 Homer St., Vancouver BC V6B 6A7 Submitted by: Ron MacArthur

KNA Claims
Appendix 1b

Rx Geochem

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 %	Al %	Na %	K %	W ppm	Zr ppm	Sn ppm	Y ppm	Nb ppm	Be ppm	Sc ppm
SI	<2	3	27	56	.5	2	2	121	.08	<5	<10	<4	2	168	.5	6	<5	4	6.92	.012	5	11	.30	184	.03	1.15	9.85	.21	<4	98	4	5	2	1	<1
112680	2	6	<5	60	<.5	20	3	91	.19	7	13	<4	<2	132	1.3	<5	<5	16	2.28	.017	<2	7	1.40	2494	<.01	.31	<.01	.04	<4	4	<2	<2	3	<1	<1
112681	2	20	<5	25	<.5	13	2	13	.18	<5	<10	<4	<2	112	.6	<5	<5	8	.18	.011	<2	4	.11	2561	<.01	.36	.01	.03	<4	2	<2	<2	2	<1	<1
112682	2	7	<5	18	<.5	13	3	17	.24	8	<10	<4	<2	95	<.4	<5	<5	8	.10	.012	<2	3	.07	3336	.01	.26	<.01	.04	<4	6	<2	<2	2	<1	<1
112683	<2	3	<5	10	<.5	5	2	10	.14	7	<10	<4	<2	67	<.4	<5	<5	7	.02	.008	<2	4	.01	4924	<.01	.21	<.01	.03	<4	5	<2	<2	<2	<1	<1
112684	2	3	<5	9	<.5	2	3	<5	.14	<5	<10	<4	<2	47	<.4	<5	<5	6	.02	.007	<2	3	<.01	6649	.02	.19	<.01	.02	<4	5	<2	<2	2	<1	<1
112685	4	2	<5	6	<.5	2	2	<5	.20	7	<10	<4	<2	45	<.4	<5	<5	11	.01	.009	<2	4	<.01	4651	<.01	.30	.01	.06	<4	6	<2	<2	3	<1	<1
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112687	6	4	6	17	<.5	5	<2	<5	.49	<5	<10	<4	<2	69	<.4	<5	<5	32	<.01	.010	<2	8	.02	1137	.01	.78	<.01	.16	<4	8	<2	<2	<2	<1	<1
112688	37	8	8	61	<.5	29	4	26	1.27	25	<10	<4	<2	67	.5	<5	<5	78	.02	.051	<2	24	.04	349	.05	1.74	<.01	.31	<4	21	3	2	<2	1	<1
112689	47	24	8	65	<.5	36	4	5	2.02	25	14	<4	2	87	.4	11	<5	150	.04	.054	5	42	.07	679	.09	3.03	.01	.50	4	30	<2	2	3	2	1
112653	7	99	103	684	1.6	73	5	250	5.51	47	18	<4	3	129	4.8	17	10	122	7.44	.651	20	103	.98	146	.08	2.97	.03	1.61	<4	4	<2	26	2	1	5
112655	11	25	42	1210	<.5	42	17	217	8.12	29	<10	<4	2	465	1.4	<5	<5	43	1.86	1.055	7	124	.06	1350	.01	.92	.01	.24	14	2	<2	42	<2	1	9
112656	94	26	25	5463	<.5	767	79	1516	13.28	50	13	<4	9	66	5.0	<5	6	134	1.06	.165	30	103	.35	2783	.20	3.54	.14	1.59	<4	24	2	8	3	1	5
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112665	6	645	<5	124	5.4	3	3	46	.24	60	<10	<4	<2	61	3.1	241	<5	11	.81	.282	<2	51	.08	4159	<.01	.58	.01	.29	<4	4	<2	6	2	<1	<1
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112670	8	77	<5	260	1.0	33	3	219	1.21	<5	<10	<4	2	263	3.5	45	<5	495	6.29	1.261	26	99	2.36	193	.09	3.38	<.01	1.69	<4	26	<2	32	<2	1	4
112676	19	86	11	111	<.5	52	8	218	5.88	22	<10	<4	8	105	1.5	<5	<5	594	.49	.440	38	135	1.26	901	.35	6.39	.06	2.63	<4	90	3	14	37	2	11
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112702 KNA	149	59	7	51	.7	6	4	296	1.70	140	<10	<4	2	80	.5	9	<5	36	.90	.018	5	72	.30	238	.07	2.76	.68	.54	<4	9	<2	4	2	<1	3
112703	8	196	21	115	<.5	43	3	27	3.34	38	<10	<4	9	121	1.0	5	<5	118	.07	.245	38	117	.45	1801	.12	3.58	.02	1.65	<4	66	2	16	9	2	5
112726 Apollo	<2	168	<5	112	<.5	16	29	1342	7.18	<5	<10	<4	5	357	1.3	<5	<5	323	4.31	.150	24	20	2.78	2005	.62	8.99	1.78	2.27	<4	69	<2	23	30	2	19
112730 KNA	4	4	37	14	<.5	5	3	25	.25	8	<10	<4	<2	234	<.4	<5	<5	20	.11	.023	<2	61	.03	4697	.01	.26	.01	.06	<4	5	<2	2	<1	<1	
STANDARD DST3	11.124	41	171	.6	40	14	1050	4.00	32	<10	<4	6	224	5.6	7	7	133	1.58	.110	25	300	.96	1051	.40	7.12	1.78	2.12	9	47	7	16	9	3	10	

GROUP 1E - 0.25 GM SAMPLE DIGESTED WITH HClO₄-HNO₃-HCl-HF TO 10 ML. UPPER LIMITS - AG, AU, W = 200 PPM; MO, CO, CD, SB, BI, TH & U = 4,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM. DIGESTION IS PARTIAL FOR SOME MINERALS & MAY VOLATIZE SOME ELEMENTS, ANALYSIS BY ICP-ES.

- SAMPLE TYPE: ROCK R150 60C

Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns

DATE RECEIVED: JAN 16 2002 DATE REPORT MAILED: Jan 24/02 SIGNED BY: *CH* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE

MacArthur, Ron File # A200138

1208 - 1328 Homer St., Vancouver BC V6B 6A7

Submitted by: Ron MacArthur

KNA CLAIMS
Appendix 1c

Soil Silt Geochem

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 %	Al %	Na %	K %	W ppm	Zr ppm	Sn ppm	Y ppm	Nb ppm	Be ppm	Sc ppm
G-1	<2	6	23	49	.5	8	3	808	2.32	9	<10	<4	9	713	.7	<5	<5	50	2.67	.099	29	14	.62	1002	.24	7.94	2.65	3.07	4	7	<2	17	23	3	6
112651	4	37	38	282	.5	50	15	742	3.08	20	11	<4	12	91	1.9	<5	7	181	1.08	.194	44	63	.72	3024	.36	4.63	.47	1.84	<4	36	2	13	6	2	9
112652	3	23	42	193	<.5	29	12	679	3.22	21	<10	<4	15	162	1.1	<5	<5	86	3.61	.118	57	47	1.30	2318	.60	4.37	.56	1.63	<4	37	<2	10	10	2	7
112654	<2	17	16	428	<.5	28	8	529	2.65	12	<10	<4	14	89	3.3	<5	<5	71	3.79	.177	60	47	1.52	1459	.54	3.84	.48	1.51	<4	32	<2	8	11	1	6
112661	4	29	34	212	<.5	40	12	672	3.34	19	<10	<4	15	182	1.6	<5	<5	115	3.75	.137	62	44	1.14	1272	.69	3.86	.44	1.48	<4	35	2	10	7	1	6
112663	2	14	<5	230	<.5	40	2	328	.22	8	<10	<4	<2	329	8.0	<5	<5	12	27.61	.072	6	53	.28	431	.03	.38	.04	.08	<4	5	<2	5	3	<1	1
112667	<2	30	24	92	<.5	47	26	1645	4.02	15	13	<4	10	97	.8	<5	<5	132	1.14	.080	37	97	1.04	938	.40	5.68	.78	1.80	<4	45	2	18	7	2	13
112668	2	33	18	101	<.5	48	26	1702	3.99	11	<10	<4	9	99	.8	<5	<5	136	1.20	.085	34	100	1.05	1490	.35	5.85	.81	1.85	<4	40	<2	18	4	2	13
RE 112668	<2	33	22	101	<.5	50	25	1706	3.97	12	<10	<4	8	99	.9	<5	<5	136	1.19	.085	34	98	1.04	1482	.35	5.89	.77	1.84	<4	44	2	18	6	1	13
112671	4	33	18	194	.6	52	22	1316	3.57	24	<10	<4	9	87	1.7	<5	6	259	1.18	.107	27	92	1.09	2365	.32	5.33	.59	2.03	<4	40	<2	16	2	2	11
112672	3	50	16	167	<.5	53	21	1338	3.40	16	<10	<4	10	103	1.7	13	<5	209	1.27	.107	30	85	1.08	2424	.30	5.44	.67	2.00	<4	42	<2	16	2	2	11
112673	5	32	18	141	.5	50	21	1215	3.20	18	<10	<4	8	97	1.6	<5	<5	187	1.13	.096	35	83	.96	2671	.31	5.02	.69	1.82	<4	31	2	16	4	2	10
112674	2	36	19	102	<.5	55	23	1334	4.13	13	<10	<4	10	148	1.3	<5	7	150	1.79	.093	38	101	1.03	997	.38	6.47	.91	2.06	<4	57	3	16	7	2	13
112675	3	47	23	108	<.5	58	28	1427	4.18	22	<10	<4	12	122	.5	<5	6	150	1.05	.142	41	95	1.04	1155	.33	5.98	.87	2.01	<4	50	2	17	7	2	12
112678	<2	38	14	87	.5	49	22	1223	3.57	15	<10	<4	13	142	.9	<5	<5	132	1.41	.113	42	83	.98	993	.32	5.66	.93	1.86	<4	44	<2	16	7	2	11
112679	2	35	28	84	<.5	43	19	953	3.40	15	<10	<4	10	138	.8	<5	<5	123	1.14	.113	40	87	.90	768	.36	5.30	1.03	1.69	<4	43	<2	14	6	2	10
112690	<2	55	28	117	<.5	68	26	1139	5.03	15	<10	<4	13	112	.8	<5	<5	152	1.06	.084	38	116	1.26	1135	.33	7.68	.58	2.50	<4	64	3	25	8	3	19
112691	<2	45	15	106	<.5	61	22	927	4.56	19	<10	<4	10	92	.7	<5	<5	145	.60	.075	34	106	1.13	1195	.31	7.19	.58	2.55	<4	60	3	18	6	3	14
112692	52	99	18	525	.7	136	18	513	4.73	57	<10	<4	11	101	6.0	18	<5	1178	.72	.289	31	195	1.23	3428	.34	7.78	.57	2.65	<4	99	3	23	39	4	18
112693	14	61	17	301	<.5	109	22	711	4.24	26	<10	<4	11	103	1.6	5	<5	342	.93	.141	36	117	1.16	1237	.34	6.71	.86	2.27	<4	52	2	22	<2	2	14
112694	<2	31	18	113	<.5	47	14	594	3.08	15	<10	<4	8	83	.7	<5	<5	135	1.15	.101	33	86	.85	655	.41	4.25	.89	.84	<4	36	2	11	4	2	10
112695	<2	18	11	62	<.5	35	13	740	3.64	19	<10	<4	9	98	.5	<5	8	111	1.44	.075	38	90	.95	612	.56	4.59	.87	1.17	<4	36	<2	13	7	1	11
112696	<2	19	8	62	<.5	38	15	1051	3.30	17	<10	<4	9	107	<.4	<5	<5	106	1.47	.064	35	86	.95	602	.53	4.56	.86	1.36	<4	38	<2	13	8	1	11
112697	<2	30	14	97	<.5	49	21	926	4.17	10	<10	<4	9	106	<.4	<5	<5	133	.68	.079	30	105	1.12	913	.32	6.07	.93	2.22	<4	45	<2	10	4	2	11
112698	3	32	34	316	1.0	38	10	399	3.94	26	<10	<4	10	85	1.6	<5	<5	211	.54	.497	35	87	.69	1578	.32	5.20	.62	1.97	<4	50	<2	8	6	2	9
112699	<2	16	22	130	<.5	37	15	737	3.66	18	<10	<4	15	52	1.3	<5	6	81	.66	.114	56	55	.75	1344	.76	4.63	.51	1.87	<4	31	2	9	13	2	8
112727	2	37	25	142	<.5	70	39	2976	5.54	13	<10	<4	10	117	.7	<5	7	154	1.22	.103	37	127	1.29	1178	.33	7.73	.84	2.29	<4	44	3	20	4	2	18
112728	6	34	17	192	<.5	68	35	7552	4.83	21	<10	<4	6	93	1.3	<5	8	300	.92	.120	32	107	1.07	1648	.27	6.11	.64	1.83	<4	43	2	16	<2	2	13
112729	6	26	15	1035	.5	102	13	1034	2.85	18	<10	<4	9	76	10.2	<5	6	220	.91	.141	32	66	.63	3084	.40	3.95	.54	1.54	<4	29	2	10	4	1	7
STANDARD DST3	10	124	40	172	.5	42	14	1088	4.09	30	<10	<4	6	232	5.6	6	5	131	1.61	.109	24	296	.94	1069	.39	7.12	1.83	2.19	6	48	7	14	9	4	10

GROUP 1E - 0.25 GM SAMPLE DIGESTED WITH HClO₄-HNO₃-HCl-HF TO 10 ML. UPPER LIMITS - AG, AU, W = 200 PPM; MO, CO, CD, SB, BI, TH & U = 4,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM. DIGESTION IS PARTIAL FOR SOME MINERALS & MAY VOLATIZE SOME ELEMENTS, ANALYSIS BY ICP-ES.
- SAMPLE TYPE: SILT SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

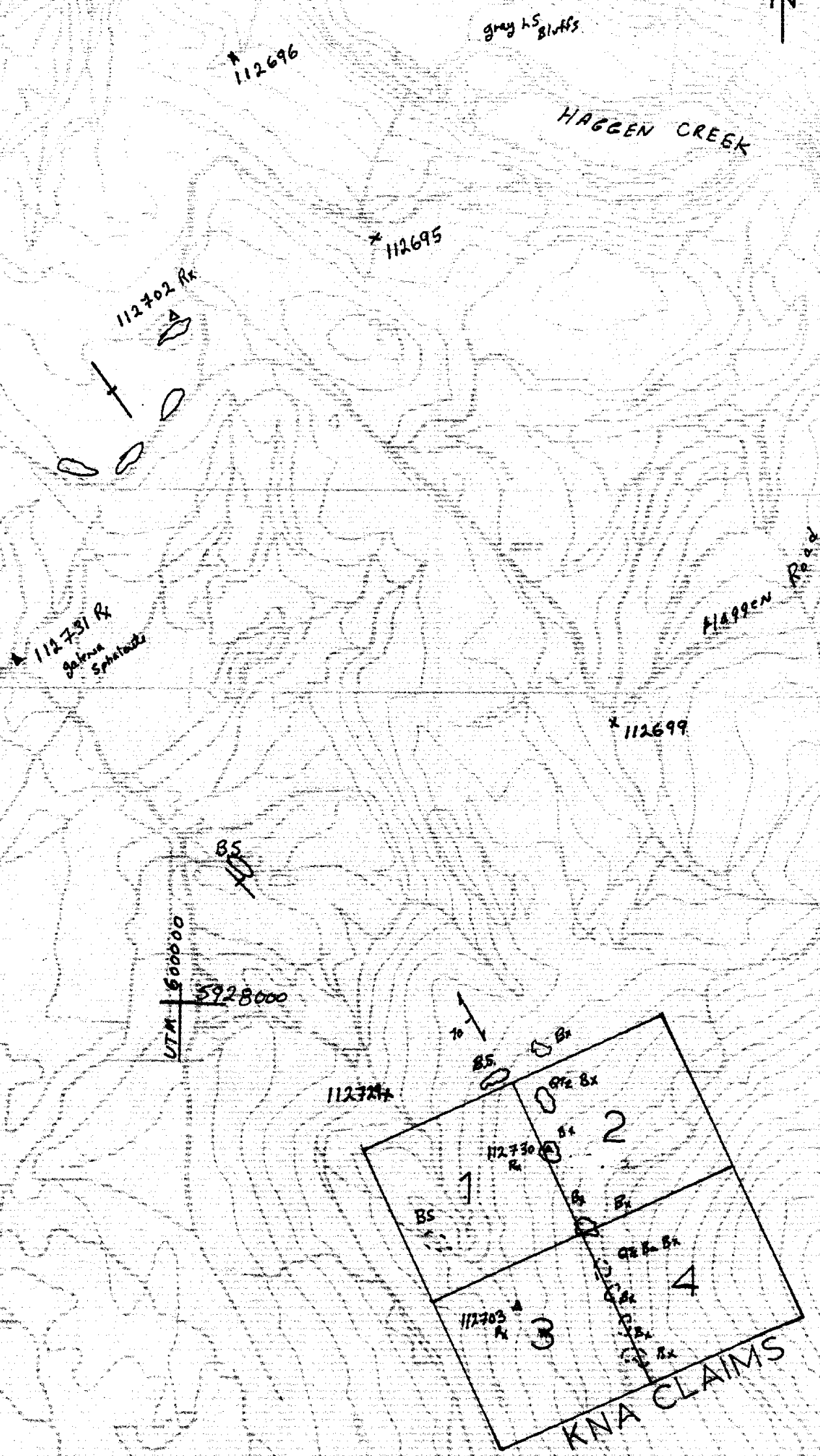
DATE RECEIVED: JAN 16 2002

DATE REPORT MAILED:

Jan 24/02

SIGNED BY:

D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



- X Silt Sample
- A Rock Sample
- BS. Black STUART Formation
- Qtz Bx Bx Quartz Barite Breccia

SCALE

KNA CLAIMS AREA
NTS 93H/06W

Fig 10

GEOLOGY AND SAMPLE LOCATIONS