

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

PROGRAM YEAR: 2001/2002

REPORT #: PAP 01-37

NAME: LEO LINDINGER

## D. TECHNICAL REPORT



Ministry of Energy and Mines  
Energy and Minerals Division

- 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 LEO LINDINGER Reference Number 01-02 P66

### LOCATION/COMMODITIES

Project Area (as listed in Part A) SEE REPORT MINFILE No. if applicable SEE REPORT  
Location of Project Area NTS SEE REPORT Lat                      Long                       
Description of Location and Access SEE REPORT

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

DEMS NGELIS IMAY

Main Commodities Searched For Zn Pb Ag Au

Known Mineral Occurrences in Project Area - SEE REPORT

### WORK PERFORMED

1. Conventional Prospecting (area) 200 km<sup>2</sup>
2. Geological Mapping (hectares/scale) 50 m<sup>2</sup>
3. Geochemical (type and no. of samples) 126 ROCKS (110 ANALYZED) 5 MOSS 5 SOIL
4. Geophysical (type and line km)
5. Physical Work (type and amount)
6. Drilling (no. holes, size, depth in m, total m)
7. Other (specify) STAKING

FEEDBACK: comments and suggestions for Prospector Assistance Program                     

WE NEED A EXPLORATION CLIMATE !!!

## D. TECHNICAL REPORT (continued)

### REPORT ON RESULTS

- Those submitting a copy of an Assessment Report or a report of similar quality that covers all the key elements listed below are not required to fill out this section.
- Refer to Program Regulation 17D on page 6 for details before filling this section out (use extra pages if necessary)
- Supporting data must be submitted with the following **TECHNICAL REPORT** or any report accepted in lieu of.

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

Name LEO LINDINGER Reference Number 01-02 P86

**1. LOCATION OF PROJECT AREA** [Outline clearly on accompanying maps of appropriate scale.]

SEE ACCOMPANYING REPORT.

**2. PROGRAM OBJECTIVE** [Include original exploration target.]

FIND A MINE OF COURSE!

**3. PROSPECTING RESULTS** [Describe areas prospected and significant outcrops/float encountered. Mineralization must be described in terms of specific minerals and how they occur. These details must be shown on accompanying map(s) of appropriate scale; prospecting traverses should be clearly marked.]

SEE REPORT

Please refer to Appendix 1 - time and cost summary, Appendix 2 - Rock Sample Description and Results, Index Map, maps 1 to 15, and Appendix 3 - multielement analytical affidavits for additional information.

The structure of this report is tied in sequential order to the maps and will discuss results of samples taken and brief geological summaries.

Map 1 show the sample locations of rock and moss mat samples taken in evaluating the SI showing O82M-230. The drainage draining this area into the raft river has the highest RGS zinc on map sheet 082M. I observed the remnants of clastic and carbonate units that resemble carbonates units in Eagle Bay rather than Shuswap rocks. I rediscovered the mineralized horizons and located and sampled two. I also found a large (football sized) chunk of massive sphalerite proximal float with calcareous fragments. The nature of the mineralization in the carbonates most closely resembles manto style of mineralization. Only about 100 meters of the over 1000 meter carbonate horizon was very briefly examined. Sample ZN-01-03 returned the highest combined zinc, lead and silver of the entire program. 33% zinc, 16.45% lead and 490 g/t silver along with anomalous bismuth, cadmium and antimony. Samples ZN-01-01 and 02 were outcrops of stratiform and crosscutting structural hosted massive sphalerite mineralization. Both ran over 30% zinc and sample 01 was also anomalous in mercury. The moss mat samples reflected the zinc mineralization and were also anomalous in lanthanum. The carbonate horizon is an erosional remnant cut off by an deformed felsic intrusive to the west (Cretaceous?????)

MAP 1a shows the sample locations of samples UAR-035 - 37 and 040. These samples were taken of altered, veined intrusive hosted rock (035-037) and sulphidic skarn-calc silicate mineralization. The outcrop exposures of sample 040 resembled the carbonate horizons at the Vista-Navan and CK. Only weakly anomalous copper and zinc values were returned.

MAP 2 is a current claim map showing the SUNRISE, SNOW, MCMETAL AND RED TOP claims. These claims were acquired by the writer from May 21 to August 2001. MAP 2A is geological plan from Placer Dome of the Sunrise (082M-046) -Snow (082M045) -Red Top (082M046) Kuroko? style VMS occurrences. The Sunrise Occurrence hosts massive sphalerite grading up to 35% zinc (AR 200019). Samples taken of the eastern extension of the Sunrise mineralized horizon infer that the mineralized horizon (predominantly pyrrhotite) is over four hundred meters long in an east west direction. Samples SUR 004-007 returned weakly anomalous gold, silver, copper and zinc results and moderately anomalous lead. Rock samples of bleached, quartz carbonate and epigenetically mineralized schist taken on the Mcmetal claims



(SUR-008-13) over a gold in soil anomaly (up to 100 ppb Au) generated by Placer Dome work returned only very weakly anomalous gold.

Samples taken from DDH N-94-01 of semi massive to massive sulphide mineralized material (131376-131381) returned anomalous to strongly anomalous silver (24 ppm), copper (576 ppm), lead (9250 ppm), and zinc (6220 ppm).

MAP 3 (082M12) covers a large area including the area covered by MAP 2. The samples (WRTR-01-04,5,6,8 and WRTM 07,9) taken were of mineralized material bearing lithological similarities to the Sunrise horizon 5 to 7 km east. WRTR-01-04 was a sample of epigenetic quartz veining hosted by strongly sulphidic sericitic siliceous schists returned 45 ppb Au, with accompanying anomalous silver, copper, lead, arsenic, molybdenum and nickel. WRTR-01-05 was a sample of a small 8 mm thick syngenetic appearing sulphide horizon underlain by highly altered sericitic schists and overlain by banded "exhalative" appearing chert returned 49 ppb gold, 25 ppm silver, 450 ppm copper, 7134 ppm lead, 1.9% zinc, with anomalous arsenic, bismuth and cadmium. Other samples returned less strongly anomalous metals with a similar signature.

MAP 4 is a claim map of the Broken Hill property owned by the writer. This property was optioned by Cassidy Gold Corp. in October 2000 and returned to the writer in September 2001.

MAP 5 is a sample location map of samples taken on and around Pinkie Peak for "intrusion associated" and "Broken Hill" style mineralization. No significant new mineralization was discovered. The PICA showing 800 meters south of the FINN showing (082M186) appears to be a remnant of a zinc rich massive sulphide horizon. Samples taken earlier returned over 15% zinc over 0.5 meter.

The Finn showing was acquired in September 2000 by the writer. Detailed mapping (see accompanying geological plan) revealed that the showing actually occupies the east limb of an assumed synform and that the mineralized horizon may continue to plunge to the northwest in areas not explored by earlier workers.

The ISH property was acquired by the writer in Oct 2000 to cover the area hopefully hosting the source of a massive sulphide float cobble returning 5.6% zinc along with strongly anomalous lead and silver (8.4 ppm). For additional details please refer to the attached report "Prospecting report on the ISH property" by the writer. No significant zinc mineralization was discovered, however skarn associated anomalous gold-bismuth-copper mineralization was discovered.

MAP 6 covers part of the Broken Hill Property owned by the writer. Samples (Navan 1,2 and Vista 3a, 3c) taken while night lamping for tungsten mineralization were of fluorescing hydrozincite of samples that returned up to 8.6% zinc (Navan 1). Fluorescing plagioclase in pegmatitic rock was also noted.

MAP 7 (082M085) cover followup sampling of three target areas. On the Biz property (NW area of map) samples of altered and mineralized material north and west of the

Bizar showing failed to locate new mineralization. The area sampled was chosen by the writer as a topographic high on airphotos similar to the area of positive relief hosting the Bizar (082M267) showing.

Sample AR098 taken in 1998 but only analyzed in 2001 returned very anomalous rare earth values. This rock appears to be a potassium rich high level intrusion breccia that may have come from an unmapped zoned ultramafic plug to the south of Oliver Creek. Followup sampling (UAR-01,2,3) returned additional anomalous float. Sample OLM-01-05 was a followup sample of a drainage hopefully draining the source of the REE mineralization.

Samples OLR-01-01,2,34,5,6 were samples taken as followup for high grade zinc mineralization, and as returned in sample "078" very high grade "Bizar" style gold mineralization. Subsequent work revealed that the sample sent in as AR078 was probably a sample from the Bizar showing (AR158). Additional zinc rich mineralization in an outwash fan from a drainage returned additional massive sphalerite and pyrrhotite mineralization with similarities to the other "Broken Hill" type occurrences and showing in the region. Conversations with Trygve Hoy and other, suggests that the source of this mineralization being Ruddock Creek (8 km south) is very unlikely. The writer has made a exploration agreement with Cumberland Resources Ltd. for further exploration in the area.

MAP 8 is a 1:50,000 scale claim map of the BIZ claims hosting the Bizar showing.

MAP 9 cover part of map sheet 082M074 southeast of Avola. Exploration for Broken Hill style and Bizar style mineralization. Although strongly altered and mineralized rocks with the possibility of hosting gold mineralization were located and sampled no anomalous values were returned.

MAP 10 is map sheet 082M065. In an effort to access Mammoth creek for REE element followup on an RGS anomaly the writer sampled Denney Creek (moss mat DEN-01-01). Results returned weakly anomalous REE indicators. Mammoth Creek was not road accessible due to impassable road washouts.

MAP 11 covers part of 082M-077 over the lower part of Hoskins Creek. The program is part of the Columbia Project. I went up there at the suggestion of Denis DeLisle and was accompanied by him to search for ultramafic hosted copper mineralization. Only weakly mineralized secondary copper bearing carbonated veins were located, (HOS-01-01,2,3).

MAP 12 covers the RIO claims which the writer acquired by staking in mid May 2001 to cover the RIO showing (082M-116) tungsten-copper skarn mineralization. Map 12A is a detail prospecting map showing the sample locations, RIO-01-01 - 30. The writer did not locate mineralization with grades similar to that discovered earlier (up to 7% tungsten). However the intensity of the alteration with the sporadic mineralization suggests to the writer that the exposures may be near the top of a mineralizing system.

MAP 13 covers the Ladybug property and LADYBUG showing (082M-265) co-owned by the writer with Mr. David Pipe. Two sampling programs (LBR-01-01 - 18) up the eastern slope of Mt. Fowler resulted in the discovery of high grade magnetite (LBR-01-03 - 22% iron) and moderate grades of zinc-lead-silver (LBR-01-14 1.9% Zn, 2.2% Pb and 59 g/t Ag) exoskarn style mineralization. Both mineralization styles are hosted by similar rocks and are also anomalous in arsenic, bismuth cadmium and sporadically anomalous in tungsten, nickel. Chloritic calcareous intrusives (carbonate contamination) were located and sampled (LBR-01-17). This rock was weakly anomalous in barium, lanthanum, vanadium, yttrium, lead and zinc.

MAP 14 covers the STEEP (082M-118) gold-copper-bismuth skarn occurrence. Samples of two mineralized intersections by the writer of hole 258-07 of semi-massive pyrrhotite mineralized rock returned over 6 g/t gold in each sample. The initial core sampling was very broad (average 3 meters per sample) resulting in uncertainties of mineralization for gold. This sampling provides increased certainty for pyrrhotite associated gold mineralization, however its apparently sporadic nature (artifact of overly broad sampling???) indicates that more detailed geoscience work is required.

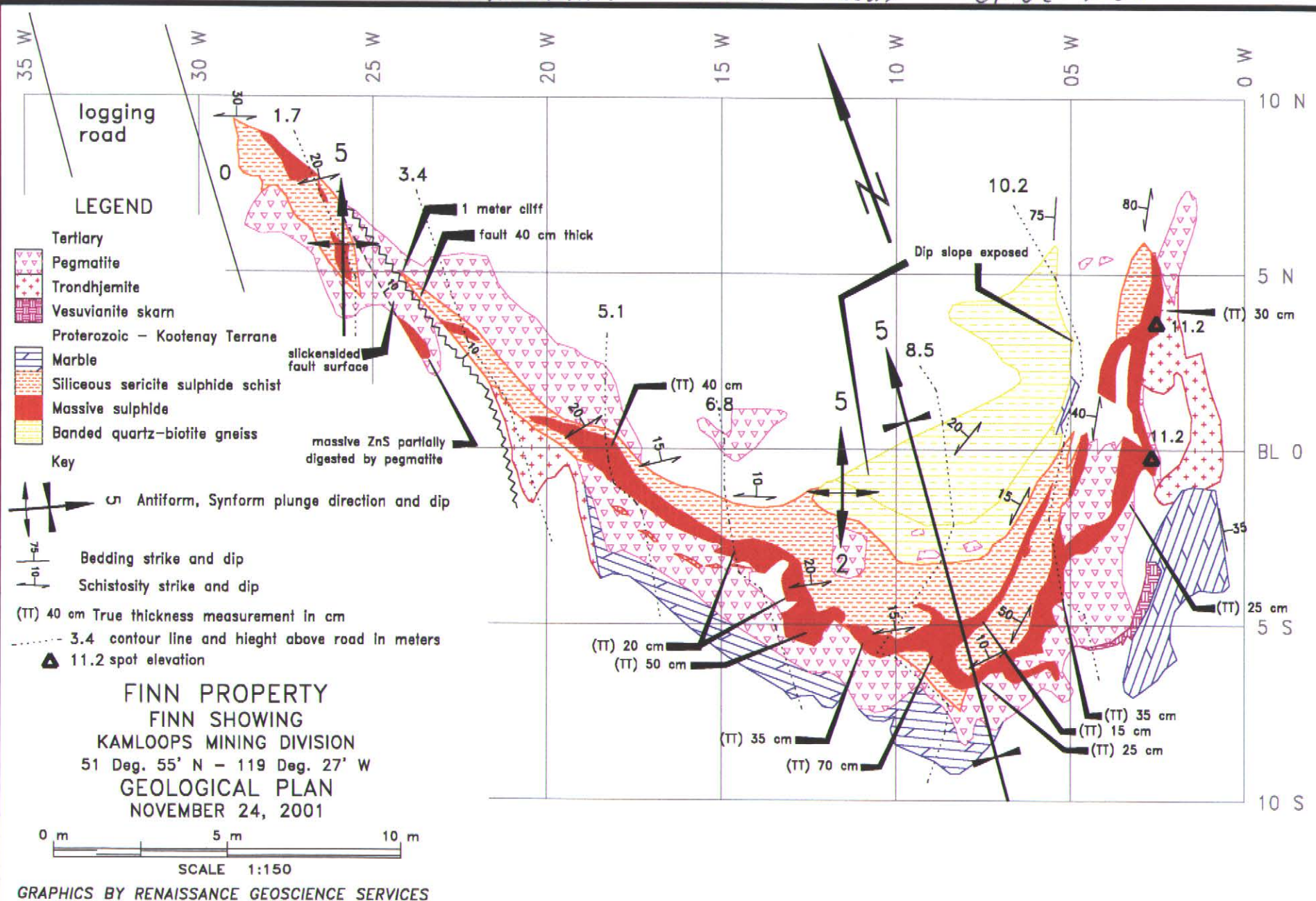
MAP 15 covers the northern part of the Adams River drainage and assists in location of 1998 samples analyzed in 2001. The samples were sent in for mostly gold except for AR-098 multielement. these samples were deemed not significantly mineralized to warrant sampling in previous programs. with the exception of 98-078 (miss sample) and 98-098 all submitted samples failed to return more than very weakly anomalous gold.

This concludes my report

  
Leo Lindinger

*Autism  
claims*

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APPENDIX 2

2001 PROSPECTING GRANT 01-02 P66 ROCK SAMPLE DESCRIPTIONS AND RESULTS

sampled	Ident.	Map Sht.	Loc.	UTME	UTMN	description	analyzed?	results Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	others
1998	AR022	083D004	north Adams river	361600	5769900	Medium grained heterogeneous biotite garnet skarn with trace malachite staining	Y	tr	tr	185	8	118	P 1350
1998	AR054	082M086	Oliver creek	359700	5753200	Rusty weathering feldspathic biotite amphibolite gneiss. 55 sulphides	Y	tr	na	na	na	na	na
1998	AR078	082M086	Km 14 Oliver creek	362450	4741450	Limonitic weathering biotite rich gneiss Variable composition with biotite rich and quartz dominated bands. semi-massive sulphide bands up to 8 mm thick.	Y	41.7 not repeatable sampling error	tr	65	26	49	Sn 40
1998	AR098	082M085	Km 3.4 Oliver Ck. Rd.	356000	5747550	RARE EARTH SAMPLE red and black orthoclase intrusion breccia with black is partially assimilated wallrock or ultramafic	Y	na	4.6	300	14	100	Be 19 Pt 2ppb
1998	AR098						Y	Co	Ge	Nb	Ta	V	Th
1998	AR098						Y	107	0.85	299	11.85	227	86
1998	AR098						Y	Ba	Th	La	Ce	Nd	U
1998	AR098						Y	6400	42	401	636	220	15
1998	AR110	082M095	drainage S of Scrip Ck.	359400	5753150	Siliceous granulite with irregularly disseminated graphite and 35 pyrite. grades to calc-silicate amphibole rock.	Y	170 contam.	na	na	na	na	na
1998	AR131	082M095	N. Tum Tum Lk	354800	5754600	Rusty irregular grey siliceous pyritic gneiss. 6% fine to medium grained disseminated sulphides.	Y	90 contam.	na	na	na	na	na
1998	AR132	082M095	N. Tum Tum Lk	354800	5754595	Melanocratic feldspathic sericite gneiss with 10% dark powdery sulphides.	Y	10 contam.	na	na	na	na	na
1998	AR133	082M095	N. Tum Tum Lk	354800	5754500	Strongly pyritic quartz breccia veining in fine grained siliceous pyritic gneiss	Y	10 contam.	0.8	173	tr	11	Mo 12 Ni 104
1998	AR148	082m085	Bizar claims	350850	5750300	Rusty weathering leucocratic weakly pyritic gneiss. Sulphides are grey disseminated lenses in unmineralized quartz sericite gneiss.	Y	10 contam.	na	na	na	na	na
23-May	RIO-01-01	082M06W	HUMAMIL T LK.	347500	5688700	Quartz-plagioclase-biotite leucogranodiorite. Float sample taken near LCP location on road	N						
7-Jun	SUR-001	082M12W	SUNRISE CLAIMS	305450	5724350	Pale to medium grey siliceous laminated exhalative looking rock.	Y	na	0.2	132	20	86	V 55
7-Jun	SUR-002	082M12W	SUNRISE CLAIMS	305700	5724350	Dark grey rusty weathering crudely laminated metavolcanic sediment schist. OC nnw strike 50 deg. n dip.	N						
15-Jun	AWC-01	082M04E	Awsum core	307400	5654700	core sample DDH-258-07 254.3 M. 8 cm sample length - Pyrrhotite chalcopyrite mineralized core. sample 30% pyrrhotite	Y	6630	0.4	358	10	tr	Bi 366
15-Jun	AWC-02	082M04E	Awsum core	307400	5654700	core sample DDH-258-07 289.8 M. 14 cm sample length - Pyrrhotite chalcopyrite mineralized core. sample 25% pyrrhotite	Y	7940	0.8	488	8	6	Bi 882

## 2001 PROSPECTING GRANT 01-02 P66 ROCK SAMPLE DESCRIPTIONS AND RESULTS

sampled	Ident.	Map Sht.	Loc.	UTME	UTMN	description	analyzed?	results Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	others
22-Jun	PKR-01-01	082M14W	Finn Ck. area.	343000	5750950	Leucocratic bleached tan to gossanous altered very fine grained felsic intrusive (tonalite?) and associated? granitized host rock (pegmatitic). Intrusive contains 1% very finely disseminated and hairline veined sulphides. Wallrock contains silvery musc.	Y	<5	tr	8	26	98	
22-Jun	PKR-01-02	082M14W	Finn Ck. area.	342850	5751200	White to pale grey vitreous quartz vein associated with bleached and sericitic altered and sheared wallrock.	Y	<5	tr	6	48	28	
22-Jun	PKR-01-03	082M14W	Finn Ck. area.	342850	5751200	Pale grey cryptocrystalline felsite dyke. Crosscut by numerous late stage hairline carbonate filled fractures.	N						
22-Jun	PKR-01-04	082M14W	Finn Ck. area.	343000	5751550	Medium grained tonalite or granitized siliceous rock. Crosscut by numerous quartz-sulphide (pyrrhotite?) muscovite hairline fracture veins and gash infillings. Shuswap gneiss wallrock is bleached with coarse silvery muscovite replacing biotite.	Y	<5	tr	12	24	46	As 30
22-Jun	PKR-01-05	082M14W	Finn Ck. area.	343000	5751550	White crystalline quartz vein 7 to 15 mm thick with strongly sericitic wallrock. sericite is very silvery.	N						
22-Jun	PKR-01-07	082M14W	Finn Ck. area.	342800	5752200	White and vitreous chalcedonic quartz veining with accompanying flooding in intensely argillic altered felsic intrusive. Up to 5% pyrite and pyrrhotite as up to 2 mm thick late stage fracture veins.	Y	<5	tr	11	50	30	
22-Jun	PKR-01-08	082M14W	Finn Ck. area.	342800	5752200	Leucocratic mosaic brecciated quartz, plagioclase (clay altered) sericite (secondary?) tonalite? Breccia matrix is quartz-ankerite-manganiferous carbonate veining. Rectangular angular fragments from 5 to 30 mm.	Y	<5	tr	6	38	98	As 15, Mo 7,
22-Jun	PKS-01-06	082M14W	Finn Ck. area.	342850	5751850	soil sample	Y	1	tr	24	12	68	
23-Jun	PICA-A	082M14W	Finn Ck, pica showing	341650	5753700	Brown fine to medium grained massive sphalerite. Locally semi massive with interstitial fine grained garnet, quartz and plagioclase.	N						
23-Jun	PICA-B	082M14W	Finn Ck, pica showing	341650	5753700	Very dark brown fine grained laminated sphalerite rich massive to semi-massive sulphide. Interstitial white silicate material 10-15% of rock. Durshgebewung texture.	N						

## 2001 PROSPECTING GRANT 01-02 P66 ROCK SAMPLE DESCRIPTIONS AND RESULTS

sampled	Ident.	Map Sht.	Loc.	UTME	UTMN	description	analyzed?	results Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	others
23-Jun	PICA-C	082M14W	Finn Ck, pica showing	341650	5753700	Dark grey and white semi-massive sulphide meta rock. White quartzo-feldspathic lens like porphyroblasts from 2 to 12 mm long comprising 50% of rock are surrounded by net textured massive and semi-massive sulphide. Sulphides 80% Po, 10% Py, 10% ZnS-PbS.	N						
23-Jun	PICA-D	082M14W	Finn Ck, pica showing	341650	5753700	Very dark brown fine grained laminated sphalerite rich massive sulphide. Interstitial white silicate material 10-15% of rock. Durshgebewung texture.	N						
23-Jun	PICA-E	082M14W	Finn Ck, pica showing	341650	5753700	Grey semi-massive sulphide meta rock. White quartzo-feldspathic lens like porphyroblasts from 1 to 5 mm long comprising 70% of rock are surrounded by net textured massive and semi-massive sulphide. Sulphides 80% Po, 15% Py, 5% ZnS-PbS.	N						
7-Jul	OLM-01-05	082M085	Oliver Ck area	356070	5747550	moss mat sample. rare earth sample site. Resample of UAM-097	Y	2	na	17	25	116	Ce 35 Ni 19
7-Jul	OLR-01-01	083M086	Oliver Ck area 14.0 km	362430	5741545	Float sample in till. Medium grained massive sulphide (pyrrhotite). rock is recrystallized with 15% euhedral quartz porphyroblasts up to 6 mm long in sulphide groundmass.	Y	tr	0.6	658	tr	tr	Be 7
7-Jul	OLR-01-02	083M086	Oliver Ck area 14.0 km	362430	5741545	Float sample in till. White and grey crudely banded siliceous sulphide gneiss with silvery graphitic? lamellae associated with sulphides.	Y	tr	tr	69	26	58	Mo 13 V 111
7-Jul	OLR-01-03	083M086	Oliver Ck area 14.0	362430	5741545	Float sample in till. Massive sphalerite with interstitial recrystallized pyrrhotite and quartz.	Y	tr	5.6	53	5.29%	19.60%	Cd 194 Hg 26
7-Jul	OLR-01-04	083M086	Oliver Ck area 15.5 km	363220	5740300	Outcrop sample in ditch. Grey to black and white banded fine to medium grained siliceous sulphidic gneiss. Rock contains 10% pyrrhotite as laminations and shear faces. muscovite as hairline thick polycrystalline aggregates.	Y	tr	tr	73	24	74	Mo 7 V 115
7-Jul	OLR-01-06	083M086	Oliver Ck area 15.5 km	363220	5740360	Outcrop? Pyroxenite dyke. Coarse grained interlocking fabric. Porphyroblasts to 40 mm long. probable interstitial olivine.	Y	na	0.2	122	10	130	Ce 12.5 Co 106 Cr 2540 Ga 9 Nb 4.2 Ni 852



## 2001 PROSPECTING GRANT 01-02 P66 ROCK SAMPLE DESCRIPTIONS AND RESULTS

sampled	Ident.	Map Sht.	Loc.	UTME	UTMN	description	analyzed?	results Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	others
9-Jul	DEN 01-01	082M065	Mammoth Ck Rd. Dennery Ck	351000E	527500N	Moss mat of Dennery Creek for rare earths	Y	1	na	13	16	38	Ce 73 Ga 13.4 La 43.5 Nb 32.7 Rb 65.7 Ta 5.7 U 64
11-Jul	52+00E 6320 N	082M12W	West red top	301600	5724500	Soil sample duplicating Placer Dome results	Y	na	1.6	36	50	952	
11-Jul	52+00E 6340 N	082M12W	West red top	301600	5724500	Soil sample duplicating Placer Dome results	Y	na	1.6	44	105	1290	
11-Jul	52+00E 6440 N	082M12W	West red top	301600	5724500	Soil sample duplicating Placer Dome results	Y	na	0.4	23	96	374	As 10
11-Jul	WRTR-01-01	082M12W	West red top	301600	5724500	Rock sample. Interlaminated siliceous (chert?) and massive sulphide rock. 7% total sulphide content (mostly pyrrhotite) moderately weathered.							
11-Jul	WRTR-01-03	082M12W	West red top	301600	5724500	Limonitic weathering siliceous-sericitic-sulphide schist. Intensely altered felsic volcanic? 65% quartz, 28% sericite as fine grained porphyroblasts, finely disseminated pyrrhotite throughout.							
11-Jul	WRTS-01-02	082M12W	West red top	301600	5724500	Soil sample NEAR GRID LOCATION 5100E 6700E	Y	na	tr	15	10	104	Ba 630 V 110
12-Jul	WRTM-01-07	082M12W	N-west red top	300000	5726500	Moss mat sample km 12 Mt McClennen Rd.	Y	6	tr	31	10	68	La 80
12-Jul	WRTM-01-09	082M12W	West red top	299800	5726000	Moss mat sample km 9 Mt McClennen Rd.	Y	6	0.2	25	10	162	La 20
12-Jul	WRTR-01-04	082M12W	Mt. McClennen Rd. Km 9.95	300700	5726000	Rock sample. east trending subvertical white vitreous quartz vein hosted by siliceous sericitic strongly sulphidized schistose wallrock (Altered and mineralized felsic volcanics).	Y	45	1	220	56	104	As 85 Mo 496 Ni 61
12-Jul	WRTR-01-05	082M12W	Mt. McClennen Rd. Km 9.90	300700	5726000	Rock sample. 6 cm thick by 15 cm long chip of a small massive sulphide horizon in a sericitic and quartz chert exhalite horizon. Sulphides are somewhat displaced, and comprise 15% of rock. Sulphide strikes NNE to steeply N.	Y	49	25	450	7134	1.9%	As 115 Bi 56 Cd 70
12-Jul	WRTR-01-06	082M12W	West red top	300300	5726200	Rock sample. Semi massive sulphide stringers in siliceous graphitic schist. stringers up to 8 mm thick and times massive.	Y	33	1.5	150	48	74	Mo 26 Sb 15 V 565
12-Jul	WRTR-01-08	082M12W	West red top	299900	5726200	Rock sample. Siliceous schist. 90% quartz content. Trace sericite, minor feldspar content. 4% pyrrhotite as stringers and disseminations.	Y	na	tr	55	220	112	Mo 9 V 247

## 2001 PROSPECTING GRANT 01-02 P66 ROCK SAMPLE DESCRIPTIONS AND RESULTS

sampled	Ident.	Map Sht.	Loc.	UTME	UTMN	description	analyzed?	results Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	others
16-Aug	LBR-01-01	082M03E	LADYBUG	352275	5663560	Dark green vitreous siliceous calc-silicate or skarn. Contained bands of brown vitreous quartz-garnet-magnetite skarn?	Y	na	1	1541	22	255	
16-Aug	LBR-01-02	082M03E	LADYBUG	352275	5663560	Green and silvery black banded epidote-carbonate-schiorite calc-silicate skarn? Rock is 15 to 70% magnetite, with minor sulphides. 8 m meters west of LBR-01-01	Y	tr	163	2127	7192	1303	Bi 440 Fe 19% Mo 91 Sn 60 W 530
16-Aug	LBR-01-03	082M03E	LADYBUG	352275	5663560	Green and silvery black banded epidote-carbonate-schiorite calc-silicate skarn? Rock is 15 to 70% magnetite, with minor sulphides. Malachite staining along weathered Magnetite laminations. 7 meters ne of LBR-01-02	Y	tr	35.6	829	936	314	Bi 105 Fe 22% Mo 34 Sn 120 W 30
16-Aug	LBR-01-04	082M03E	LADYBUG	352280	5663580	Green and white chloritic calc-silicate rock. 60% chlorite and epidote, 20% quartz, 15% calcite, 4% weathered sulphide stringers, probably sphalerite, and galena.	Y	na	2.8	15	396	1647	
16-Aug	LBR-01-05	082M03E	LADYBUG	352350	5663650	White and black crudely banded and zoned vein quartz? and massive magnetite +/- zinc-lead and copper sulphides. veins average 7 cm thick.	Y	na	2	1399	40	1593	Cd 24 Co 146 Mo 55 Sn 60 V 115
16-Aug	LBR-01-06	082M03E	LADYBUG	352275	5663715	Green, brown, and grey interlaminated siliceous calc-silicate rock. Rock contains 75% quartz, 20% carbonate-epidote-chlorite, 5% pyrrhotite laminations.	Y	na	0.2	339	8	24	W 40
16-Aug	LBR-01-07	082M03E	LADYBUG	352035	5663100	Green, brown, and grey interlaminated siliceous calc-silicate rock. Rock contains 65% quartz, 32% carbonate-epidote-chlorite, 3% pyrrhotite laminations.	Y	na	tr	65	20	72	
16-Aug	LBR-01-08	082M03E	LADYBUG	352155	5663065	Grey salt and pepper, fine grained crystal tuff looking intrusive. Rock 70% quartzo-feldspathic material, 25% recessive carbonate material, 5% medium grained widely disseminated sulphides.	Y	na	tr	10	8	69	
18-Aug	SUR-003	082M12W	SUNRISE CLAIMS	305350	5723250	Melanocratic pyroxenite skarn. Horizon overlies Sunrise sulphide horizon.	N						
18-Aug	SUR-004	082M12W	SUNRISE CLAIMS	305910	5723600	Grey very siliceous sulphidic welded? lapilli tuff. Rock is locally semi-massive sulphides with interlaminated quartz rich tuff. Sulphides include pyrrhotite chalcopyrite and sphalerite.	Y	4	3.8	290	280	448	Bi 28 Co 65 Ni 99

## 2001 PROSPECTING GRANT 01-02 P66 ROCK SAMPLE DESCRIPTIONS AND RESULTS

sampled	Ident.	Map Sht.	Loc.	UTME	UTMN	description	analyzed?	results Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	others
18-Aug	SUR-005	082M12W	SUNRISE CLAIMS	305950	5723600	Grey chloritic-siliceous-sulphidic laminated welded? crystal tuff. Rock is locally semi-massive sulphides occurring a fine grained massive laminations. Sulphides include pyrrhotite chalcopryrite and sphalerite.	Y	4	1.4	96	266	88	Ni 70
18-Aug	SUR-006	082M12W	SUNRISE CLAIMS	306000	5723600	Siliceous laminated matrix supported lapilli tuff with interlaminated disseminated and fine grained stringers of pyrrhotite, sphalerite and chalcopryrite.	Y	9	0.2	148	36	1220	
18-Aug	SUR-007	082M12W	SUNRISE CLAIMS	306020	5723600	Very dark grey massive pyrrhotite with numerous rhyolitic? lapilli tuff fragments. Rock is 4.5 cm thick.	Y	1	2	454	116	170	Ni 68
18-Aug	SUR-008	082M12W	SUNRISE CLAIMS	306050	5723600	Medium grained sub vitreous dark medium grey siliceous metamorphosed welded tuff? Rock contains 3 to 5% finely to medium grained disseminated pyrrhotite.	Y	6	na	na	na	na	
18-Aug	SUR-009	082M12W	SUNRISE CLAIMS	306100	5723600	Medium grained sub vitreous dark medium grey siliceous metamorphosed welded tuff? Rock contains 3 to 5% finely to medium grained disseminated and remobilized up to 2 cm by .5 cm lenses of pyrrhotite.	Y	2	na	na	na	na	
31-Aug	LBR-01-09	082M03E	LADYBUG	353465	5664150	Massive white and black quartz pyrrhotite vein (Bizar style) looking, intensely sericite altered siliceous-biotite-sulphidized gneiss wallrock.	Y	na	tr	117	tr	5	Sn 40
31-Aug	LBR-01-10	082M03E	LADYBUG	353460	5664155	Black siliceous massive sulphide lense up to 5 mm thick. Sulphide are predominately Pyrrhotite.	Y	na	tr	559	26	59	As 20 Co 116 Ni 104 Sb 15, Sn 80
31-Aug	LBR-01-11	082M03E	LADYBUG	353335	5664160	Melanocratic chloritic altered metamorphosed mafic volcanics. 2 to 4% very fine grained erratically disseminated sulphides.	N	na	na	na	na	na	na
31-Aug	LBR-01-12	082M03E	LADYBUG	353110	5664160	Brown weathering chlorite green manganiferous calc silicate rock. Calc-silicate layer contains trace sphalerite, and	Y	na	tr	69	8	75	
31-Aug	LBR-01-13	082M03E	LADYBUG	353010	5664060	Brown weathering manganiferous calc silicate rock. Calc-silicate layer contains 4% thin crystalline stringers of sphalerite, chalcopryrite and galena?	Y	4	14.4	31	6992	7815	Bi 30 Cd 32 W 60
31-Aug	LBR-01-14	082M03E	LADYBUG	353010	5664080	Brown weathering manganiferous calc silicate rock. Calc-silicate layer up to 10 cm thick with 5% combined sphalerite and galena.	Y	4	59.4	60	2.21%	1.89%	Bi 115 Cd 122 W 140

## 2001 PROSPECTING GRANT 01-02 P66 ROCK SAMPLE DESCRIPTIONS AND RESULTS

sampled	Ident.	Map Sht.	Loc.	UTME	UTMN	description	analyzed?	results Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	others
31-Aug	LBR-01-15	082M03E	LADYBUG	352885	5664665	White and black crudely banded and zoned vein quartz? and massive magnetite and pyrrhotite +/- zinc-lead and copper sulphides. Veins average 3 cm thick.	Y	na	1.2	680	98	166	As 15 Ni 64 Sn 60
31-Aug	LBR-01-16	082M03E	LADYBUG	352885	5664660	Dark green vitreous siliceous calc-silicate or skarn. Contained bands of brown vitreous quartz-garnet-magnetite skarn and in carbonate rich bands manganiferous zinc-lead sulphide mineralization	Y	na	2.6	462	70	4341	Bi 25 Cd 47 Ni 87 Sn 60 W 20
31-Aug	LBR-01-17	082M03E	LADYBUG	352855	5664680	Grey-green very fine grained carbonate altered dacite dyke. Hydrobrecciated contact with carbonate units. note rare earth signature.	Y	na	tr	16	18	195	Ba 430 La 50 V 61 Y 16
31-Aug	LBR-01-18	082M03E	LADYBUG	352855	5664680	Brown weathering chlorite green manganiferous calc silicate rock. Calc-silicate layer contains 2% finely disseminated	Y	na	0.8	18	48	863	
10-Sep	HOS-01-01	082M067	Hoskins Ck. UM	382200	5729000	Dark green heterogenous amphibole-biotite-graphite-epidote skarn? Rock contains quartz-carbonate segregations or vein fillings with light malachite staining.	Y	na	tr	21	tr	62	Cr 269, Ni 186, V 138
10-Sep	HOS-01-02	082M067	Hoskins Ck. UM	382200	5729000	Dark green amphibole gneiss. Rock contains late 1 to 5 mm thick carbonate-quartz veinlets and segregations up to 0.5 mm thick chalcocite? and heavy malachite staining.	Y	na	1	1175	tr	50	V 144
10-Sep	HOS-01-03	082M077	Hoskins Ck. UM	382400	5729150	Dark green amphibole-garnet-carbonate gneiss. Distinctive bladed amphibole or pyroxene texture. 2% graphite flakes?	Y	na	tr	17	2	28	Cr 127
14-Sep	SUR-011	082M12W	MCMETAL CLAIMS	306600	5723600	Leucocratic siliceous or segregated quartz nodules in sericitic gneiss. Limonitic weathering implies carbonate and or weathered sulphides	Y	tr	na	na	na	na	
14-Sep	SUR-012	082M12W	MCMETAL CLAIMS	306600	5723600	Dark grey siliceous sulphidic very fine grained schist. 5% very finely disseminated sulphides.	Y	3	0.2	81	16	96	Na 84
14-Sep	SUR-013	082M12W	MCMETAL CLAIMS	306600	5723600	Pink fine grained rhyolite? the may be silicified and crosscut by white quartz vein.	Y	tr	0.2	6	8	34	
18-Sep	HANK	082m14w-11w	upper Adams	343550	5736000	Limonitic clay gouge. Sheared intensely altered fine grained intrusive?	Y	tr	na	na	na	na	
18-Sep	UAR-A-01-01	082m074	Fraser rd Hank Ck area E of Avola	343515	573604	Leucocratic medium grained quartz-plagioclase-biotite "tonalite" with subparallel pods and segregations of medium grained felted masses of biotite that are locally altered to muscovite-chlorite masses.	Y	tr	na	na	na	na	

## 2001 PROSPECTING GRANT 01-02 P66 ROCK SAMPLE DESCRIPTIONS AND RESULTS

sampled	Ident.	Map Sht.	Loc.	UTME	UTMN	description	analyzed?	results Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	others
18-Sep	UAR-O-01-02	082M085	Oliver creek km 3.6 area	356000	5747550	Salt and pepper migmatized siliceous rock. Rock contains 6% fine grained pyrrhotite disseminations and sub parallel stringers. SAME AREA AS AR-098	Y	na	1.4	32.4	14.5	60	Ba 2870 Ga 12 La 53.5 Nb 29.6 Rb 64.4 Ta 1.3 Y 21.6
18-Sep	UAR-O-01-03	082M085	Oliver creek km 3.55 area	356000	5747550	Hornblende porphyroblastic quartz-feldspar migmatite. Rock contains 25% porous hornblende porphyroblasts in a tan-pink crystalline quartz-feldspathic ground mass.	N						
18-Sep	UAR-O-01-04	082M085	Oliver creek km 3.4 area	356000	5747550	Float sample. Gneissic calc-silicate rock. 40% medium grained loosely packed quartz porphyroblasts with segregated? finer grained feldspar-biotite-hornblende masses. Dark brown oxide lined vugs imply weathered carbonates and possibly sulphides.	N						
19-Sep	BZR-01-01	082M085	Bizar Property	351050	5750150	Massive pyrrhotite fluorite quartz breccia vein (extension of bizar showing). Vein up to 15 cm thick and 50% sulphides. Weak chloritic alteration of biotite gneiss host rock adjacent to vein.	Y	40	0.6	1060	2	12	As 4 Bi 6 Mo 11 Ni 155 F 100
19-Sep	BZR-01-02	082M085	Bizar Property	350850	5750500	White and dark grey foliation parallel quartz-pyrrhotite vein. Pyrrhotite occurs as irregular laminations and lenses in the quartz. Late pyrite crystals occur as secondary growths within the quartz. Vein 85% quartz, 10% pyrrhotite, 3% Py, 2% muscovite.	N						
19-Sep	BZR-01-03	082M085	Bizar Property	350850	5750550	Very fine grained siliceous, biotite gneiss. Rock is bleached, silicified with 3% very fine grained disseminated sulphides.	Y	2	na	na	na	na	
19-Sep	BZR-01-04	082M085	Bizar Property	35800	5750800	Pale tan to pink massive very fine grained weakly deformed rhyolite? Multiphased and crosscut by later finer grained white rhyolite and limonitic and tan weathering carbonate veining.	N						
19-Sep	BZR-01-05	082M085	Bizar Property	350850	5750840	Silvery limonitic weathering moderately to intensely sericitically altered feldspathic biotite gneiss. Alteration surrounding thin 1 to 4 mm discrete discontinuous quartz veinlets, and silicified fractures and shear planes.	N						
19-Sep	BZR-01-06	082M085	Bizar Property	350950	6751000	Pale tan to pink massive very fine grained weakly deformed rhyolite or metaquartzite. Crosscut by later limonitic and tan weathering carbonate veining.	N						

## 2001 PROSPECTING GRANT 01-02 P66 ROCK SAMPLE DESCRIPTIONS AND RESULTS

sampled	Ident.	Map Sht.	Loc.	UTME	UTMN	description	analyzed?	results Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	others
19-Sep	BZR-01-07	082M085	Bizar Property	350650	5751000	Leucocratic fine gr. quartz feldspar biotite gneiss. Rock, 70% quartz, 28% feldspar, 2% biotite. Rock is Xcut by 1 mm thick fol. parallel clear quartz veins, and later X cutting tan carbonate veins. Biotite is chlorite-sericite alt. along carb. veins.	N						
19-Sep	BZR-01-08	082M085	Bizar Property	350650	5750500	Clear semichalcedonic quartz vein 6 to 15 mm thick crosscutting sericitically altered feldspathic biotite gneiss.	Y	tr	na	na	na	na	
19-Sep	BZR-01-09	082M085	Bizar Property	350650	5750400	White quartz oxidized sulphide veining to 2 cm thick. Wallrock is silicified adjacent to veining with weak sericite.	Y	1	na	na	na	na	
19-Sep	BZR-01-10	082M085	Bizar Property	351050	5750450	White 6 mm quartz pyrrhotite vein crosscutting feldspathic biotite gneiss. Thin sericite grading distally to chlorite alteration halo adjacent to vein.	Y	4	na	na	na	na	
20-Sep	GSR-01-01	082M074	upper Adams	356900	5747750	Quartz veining in feldspathic gneiss with minor biotite and hornblende. Tiny massive pyrrhotite veins occur in late stage brittle fractures. 4% total sulphide content.	Y	tr	na	na	na	na	
20-Sep	UAR-PR-01-01	082m074	Oliver Ck	356000	5747550	Rock sample	Y	2	1.6	1085	26	144	Mo 10 Ni 139
20-Sep	UAR -H-01-01	082m074	Hank creek area	356000	5736050	Gray quartz vein with up to 5% very fine grained sulphides as disseminations and hairline veins in late fractures.	Y	1	na	na	na	na	
20-Sep	UAR -O-01-01	082M085	Oliver creek km 3-3.5 area	356000	5747550	Leucocratic gossanous weathering coarse grained quartz-plagioclase-biotite pegmatite. Sulphides associated with and interstitial in biotite.	Y	na	1.3	60	11.5	48	Ce 52 Ga 19.5 Nb 16.3 Y 7.8
21-Sep	NAVAN 1	082M14W	Navan showing	344500	5744500	Rock sample. Brown and white vuggy weathered calc-silicate rock. Oxidized mineralized rock. fluorescing mineral is probably hydrozincite. Sulphide content largely oxidized.	Y	na	4	99	1.92%	8.61%	Bi 32 Cd 113 Mo 11 Sb 20
21-Sep	NAVAN 2	082M14W	Navan showing	344550	5744200	Rock sample. Grey and white banded siliceous to cherty calc-silicate gneiss. Moderate fluorescence. Rock intruded by weakly fluorescing medium grained plagioclase-quartz-biotite tonalite.	Y	na	tr	20	474	192	
21-Sep	VISTA 3A	082M14W	Vista showing	344370	5475390	Rock sample. Pale cherty leucocratic cherty gneiss. rock highly oxidized with sulphides and carbonates oxidized. Rock is moderately fluorescent. (hydrozincite)	Y	na	1	42	6270	2.32%	Bi 6 Cd 26

## 2001 PROSPECTING GRANT 01-02 P66 ROCK SAMPLE DESCRIPTIONS AND RESULTS

sampled	Ident.	Map Sht.	Loc.	UTME	UTMN	description	analyzed?	results Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	others
21-Sep	VISTA 3C	082M14W	Vista showing	344370	5475390	Rock sample. Vista showing. White coarse grained calcite contaminated plagioclase muscovite pegmatite with associated fine grained biotite feldspar gneiss. Moderate fluorescence under high frequency ultra violet.	Y	na	tr	19	304	376	
22-Sep	131376	082M12W	REDTOP CLAIMS	302900	5724450	DDH 94-01 332.5 to 333 ft. Pyrrhotite as stockwork in siliceous drill core.	Y	na	1.2	576	96	1660	Cd 15 Co 76 Ni 263
22-Sep	131377	082M12W	REDTOP CLAIMS	302900	5724450	DDH 94-01 57.9 to 58.6 ft. Massive fine grained pyrrhotite in siliceous sericitic drill core.	Y	na	1.8	161	68	238	Mo 17
22-Sep	131378	082M12W	REDTOP CLAIMS	302900	5724450	DDH 94-01 186.8 to 187.2. Pyrrhotite as semi massive stringers in siliceous sericitic drill core.	Y	na	24	176	9250	6220	Bi 48 Cd 37
22-Sep	131379	082M12W	REDTOP CLAIMS	302900	5724450	DDH 94-01 332.5 to 333 ft. Pyrrhotite as stockwork in siliceous drill core.	Y	na	6.8	139	1730	446	Bi 12
22-Sep	131380	082M12W	REDTOP CLAIMS	302900	5724450	DDH 94-01 332.5 to 333 ft. Pyrrhotite as stockwork in siliceous drill core.	Y	na	7	22	878	760	Bi 12 Mo 43
22-Sep	131381	082M12W	REDTOP CLAIMS	302900	5724450	DDH 94-01 332.5 to 333 ft. Pyrrhotite as stockwork in siliceous drill core.	Y	na	0.2	25	40	178	
25-Sep	RIO-01-10	082M06W	HUMAMIL T LK. WEST CK	346400	5687500	Semi banded fine grained salt and pepper plagioclase-quartz-hornblende quartz dioritic orthogneiss.	N						
25-Sep	RIO-01-11	082M06W	HUMAMIL T LK. WEST CK	346430	5687550	Pale grey vitreous quartz and pale pink orthoclase vein-dyke. Hosted by chloritically altered and sheared retrograde altered Shuswap metamorphic gneisses.	N						
25-Sep	RIO-01-12	082M06W	HUMAMIL T LK. WEST CK	346600	5687785	Quartz-plagioclase-muscovite pegmatite dyke. Pegmatite subhedra up to 50 mm comprise 70% of rock. 27% clear interstitial quartz. 3% isolated book of muscovite.	N						
25-Sep	RIO-01-13	082M06W	HUMAMIL T LK. WEST CK	346620	5687840	Leucocratic crowded quartz-plagioclase porphyry. With largely assimilated and granitized biotite gneiss xenoliths. Plagioclase sausseritized.	N						
25-Sep	RIO-01-14	082M06W	HUMAMIL T LK. WEST CK	346600	5687800	Crowded quartz plagioclase porphyry. Plagioclase sausseritized. Hosted by quartz-biotite gneiss (similar to sample Rio-01-16)	N						
25-Sep	RIO-01-15	082M06W	HUMAMIL T LK. WEST CK	346600	5687800	White and pink quartz, red garnet, chloritized amphibole? skarn. rock 75% quartz, 55 garnet, 18% chlorite- amphibole 2% weathered sulphides.	Y						

## 2001 PROSPECTING GRANT 01-02 P66 ROCK SAMPLE DESCRIPTIONS AND RESULTS

sampled	Ident.	Map Sht.	Loc.	UTME	UTMN	description	analyzed?	results	Ag ppm	Cu ppm	Pb ppm	Zn ppm	others
								Au ppb					
25-Sep	RIO-01-16	082M06W	HUMAMIL T LK. WEST CK	346630	5687860	Grey banded and mottled fine grained siliceous amphibole biotite calc-silicate gneiss. Numerous late stage carbonate and hematite filled tension fractures. Tension fractures 90' to gneissosity	N						
25-Sep	RIO-01-17	082M06W	HUMAMIL T LK. WEST CK	346700	5687950	White to tan multi-episodic chalcedony breccia vein in easterly trending vertical structure. Quartz flooding onto wall rock with associated weak argillic alteration.	Y	2	tr	3	6	14	
25-Sep	RIO-01-18	082M06W	HUMAMIL T LK. WEST CK	346730	5688030	Grey green fine grained vitreous calc-silicate rock. May be silicified. Bands of siliceous carbonate with disseminations and stringers of pyrrhotite. 3% total pyrrhotite content in rock.	N						
25-Sep	RIO-01-19	082M06W	HUMAMIL T LK.	346730	5688010	Leucocratic fine grained quartz porphyritic intrusive. Feldspar groundmass extensively clay altered. Rock partially rewelded by late cross cutting carbonate grey vitreous quartz sulphide veinlets. 3% total sulphide content.	Y	tr	tr	16	10	74	
26-Sep	RIO-01-20	082M06W	HUMAMIL T LK.	347870	5688150	Leucocratic fine grained quartz porphyritic intrusive. Feldspar groundmass extensively clay altered. Rock partially rewelded by late cross cutting vitreous quartz veinlets. 2% very fine sulphides associated with quartz veining.	Y	tr	tr	1	10	38	
26-Sep	RIO-01-21	082M06W	HUMAMIL T LK.	347870	5688130	White cryptocrystalline quartz pyrrhotite breccia vein. Metamorphic looking associated with skarn. Pyrrhotite 25% of rock. Chalcopryite 3% of sulphides.	Y	na	0.5	865	tr	28	Ni 100
26-Sep	RIO-01-22	082M06W	HUMAMIL T LK.	347800	5688150	Cloudy white and vitreous quartz vein hosted by fine grained biotite quartz granodiorite. White veining hosts 1 to 8 mm molybdenum aggregates. Pyrolusite common on weathered surfaces.	N						5% MoS2 in vein
26-Sep	RIO-01-23	082M06W	HUMAMIL T LK.	347780	5688170	Black massive pyrrhotite-chalcopryite skarn. Hosted by black pyroxene or amphibole-garnet-biotite skarn. Crosscut by late dolomite veined fractures.	Y	na	4	3800	2	70	As 30, Co 234, Mo 58, Ni 617
26-Sep	RIO-01-24	082M06W	HUMAMIL T LK.	347760	5688160	Rusty weathering fine grained calc silicate rock. Inter banded meta chert and carbonate. 4% finely disseminated pyrrhotite throughout.	N						
26-Sep	RIO-01-25	082M06W	HUMAMIL T LK.	347890	5688060	Rusty weathering fine grained calc silicate rock. Inter banded meta chert and carbonate. trace to 5% finely disseminated pyrrhotite throughout. Malachite staining on weathered surfaces. sample lost.	N						



## 2001 PROSPECTING GRANT 01-02 P66 ROCK SAMPLE DESCRIPTIONS AND RESULTS

sampled	Ident.	Map Sht.	Loc.	UTME	UTMN	description	analyzed?	results Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	others
26-Sep	RIO-01-26	082M06W	HUMAMIL T LK.	347872	5688010	Red fine grained crystalline garnet-pyrrhotite skarn. 80% fine grained green crystalline garnet. 10% other silicate minerals, 10% fine to medium grained pyrrhotite, trace chalcopyrite.	N						
26-Sep	RIO-01-27	082M06W	HUMAMIL T LK.	347860	5687980	Pale grey multi-episodic breccia veining as late stage semi brittle infillings in rhyodacite dyke. Latest grey chalcedonic phases contain microscopic to fine grained iron sulphides. See RIO-01-028.	Y	2	tr	8	14	18	
26-Sep	RIO-01-28	082M06W	HUMAMIL T LK.	347840	5687950	White gossanous weathering very fine grained rhyodacite dyke. Locally semi massive sulphides in late fractures and along wall rock contact. Wallrock is intensely clay altered Shuswap gneiss and earlier intrusives.	Y	tr	tr	62	12	50	
26-Sep	RIO-01-28A	082M06W	HUMAMIL T LK.	347840	5687950	Grey siliceous clay in north trending steeply dipping structure. 5% late sulphides in dilation lenses.							
26-Sep	RIO-01-29	082M06W	HUMAMIL T LK.	347850	5687950	Melanocratic amphibole? biotite, pyrrhotite, chalcopyrite skarn. Rock 12% pyrrhotite. Moderate scheelite under lamping.	Y	na	0.5	1990	6	160	As 15, V 100, W 930
26-Sep	RIO-01-30	082M06W	HUMAMIL T LK.	347845	5687970	Dark grey gossanous weathering crystalline massive pyrrhotite breccia vein. Vein up to 8 cm thick in cross cutting north and northwest subvertical structures. Hosted by intensely chloritic and argillic altered gneiss near rhyodacite dyke.	Y	3	0.2	148	16	32	Mo 12
3-Oct	MM ZN-01	082M13E	Ck Km 19 Raft river FSR	312050	5739300	Moss mat on Zinc Ck below showings.	Y	na	tr	17	64	286	La 80
3-Oct	MM ZN-02	082M13E	Ck Km 19 Raft river FSR	311800	5739300	Moss mat on Zinc Ck. above showing	Y	na	tr	9	26	90	La 50
3-Oct	UAR-01-35	082M13W	Spahats Ck road Km 17	298000	5737500	Bleached and altered fine grained quartz monzonite	Y	na	tr	18	26	132	
3-Oct	UAR-01-36	082M13W	Spahats Ck road Km 16.5	297600	5737200	Bleached and sheared coarse grained quartz monzonite. clay altered feldspars	Y	na	tr	232	16	184	
3-Oct	UAR-01-37	082M13W	Spahats Ck road Km 16.2	297400	5737000	2 cm thick quartz pyrrhotite vein.	Y	na	tr	440	26	20	Bi 76
3-Oct	UAR-01-40	082M13W	Spahats Ck road Km 15.5	296900	5736800	Pretty sulphide rich stuff sulphide showing on	Y	7	3	730	28	164	W 30

## 2001 PROSPECTING GRANT 01-02 P66 ROCK SAMPLE DESCRIPTIONS AND RESULTS

sampled	Ident.	Map Sht.	Loc.	UTME	UTMN	description	analyzed?	results Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	others
3-Oct	ZN-01-01	082M13E	Ck Km 19 Raft river FSR	312000	5739300	Dark chocolate brown crystalline sphalerite hosted by fine grained calcareous carbonate. White crystalline calcite interstitial. Occurs a beds and lenses subparallel to bedding? or gneissosity.	Y	na	8.4	33	1705	31.10%	Bi 46 Cd>500 Hg 34 Sb 46 Sr 494
3-Oct	ZN-01-02	082M13E	Ck Km 19 Raft river FSR	312030	5739300	Outcrop sample, Dark chocolate brown massive crystalline sphalerite with interstitial calcite in west striking subvertical shear zone. Hosted by fine grained dolomitized and brecciated carbonate. 20 meters E of 1	Y	na	55	86	1.64%	36.20%	Bi 146 Cd>500 Sb 44
3-Oct	ZN-01-03	082M13E	Ck Km 19 Raft river FSR	312000	5739340	Subcrop sample. Dark brown fine grained sphalerite breccia with innumerable fine grained calcareous breccia fragments. Looks like manto. 50 meters north of Zn-01-01	Y	na	490	20	16.45%	33%	Bi 1640 Cd>500 Sb 130

ppb ?

January 16, 2002,

Prospecting Report 01-02-P66,

Please refer to Appendix 1 - time and cost summary, Appendix 2 - Rock Sample Description and Results, Index Map, maps 1 to 15, and Appendix 3 - multielement analytical affidavits for additional information.

The structure of this report is tied in sequential order to the maps and will discuss results of samples taken and brief geological summaries.

Map 1 show the sample locations of rock and moss mat samples taken in evaluating the SI showing O82M-230. The drainage draining this area into the raft river has the highest RGS zinc on map sheet 082M. I observed the remnants of clastic and carbonate units that resemble carbonates units in Eagle Bay rather than Shuswap rocks. I rediscovered the mineralized horizons and located and sampled two. I also found a large (football sized) chunk of massive sphalerite proximal float with calcareous fragments. The nature of the mineralization in the carbonates most closely resembles manto style of mineralization. Only about 100 meters of the over 1000 meter carbonate horizon was very briefly examined. Sample ZN-01-03 returned the highest combined zinc, lead and silver of the entire program. 33% zinc, 16.45% lead and 490 g/t silver along with anomalous bismuth, cadmium and antimony. Samples ZN-01-01 and 02 were outcrops of stratiform and crosscutting structural hosted massive sphalerite mineralization. Both ran over 30% zinc and sample 01 was also anomalous in mercury. The moss mat samples reflected the zinc mineralization and were also anomalous in lanthanum. The carbonate horizon is an erosional remnant cut off by an deformed felsic intrusive to the west (Cretaceous?????)

MAP 1a shows the sample locations of samples UAR-035 - 37 and 040. These samples were taken of altered, veined intrusive hosted rock (035-037) and sulphidic skarn-calc silicate mineralization. The outcrop exposures of sample 040 resembled the carbonate horizons at the Vista-Navan and CK. Only weakly anomalous copper and zinc values were returned.

MAP 2 is a current claim map showing the SUNRISE, SNOW, MCMETAL AND RED TOP claims. These claims were acquired by the writer from May 21 to August 2001. MAP 2A is geological plan from Placer Dome of the Sunrise (082M-046) -Snow (082M045) -Red Top (082M046) Kuroko? style VMS occurrences. The Sunrise Occurrence hosts massive sphalerite grading up to 35% zinc (AR 200019). Samples taken of the eastern extension of the Sunrise mineralized horizon infer that the mineralized horizon (predominantly pyrrhotite) is over four hundred meters long in an east west direction. Samples SUR 004-007 returned weakly anomalous gold, silver, copper and zinc results and moderately anomalous lead. Rock samples of bleached, quartz carbonate and epigenetically mineralized schist taken on the Mcmetal claims

(SUR-008-13) over a gold in soil anomaly (up to 100 ppb Au) generated by Placer Dome work returned only very weakly anomalous gold.

Samples taken from DDH N-94-01 of semi massive to massive sulphide mineralized material (131376-131381) returned anomalous to strongly anomalous silver (24 ppm), copper (576 ppm), lead (9250 ppm), and zinc (6220 ppm).

MAP 3 (082M12) covers a large area including the area covered by MAP 2. The samples (WRTR-01-04,5,6,8 and WRTM 07,9) taken were of mineralized material bearing lithological similarities to the Sunrise horizon 5 to 7 km east. WRTR-01-04 was a sample of epigenetic quartz veining hosted by strongly sulphidic sericitic siliceous schists returned 45 ppb Au, with accompanying anomalous silver, copper, lead, arsenic, molybdenum and nickel. WRTR-01-05 was a sample of a small 8 mm thick syngenetic appearing sulphide horizon underlain by highly altered sericitic schists and overlain by banded "exhalative" appearing chert returned 49 ppb gold, 25 ppm silver, 450 ppm copper, 7134 ppm lead, 1.9% zinc, with anomalous arsenic, bismuth and cadmium. Other samples returned less strongly anomalous metals with a similar signature.

MAP 4 is a claim map of the Broken Hill property owned by the writer. This property was optioned by Cassidy Gold Corp. in October 2000 and returned to the writer in September 2001. The Broken Hill property covers the NAVAN 082M279, VISTA 082M280 and MIKE 082M281 Minfile occurrences.

MAP 5 is a sample location map of samples taken on and around Pinkie Peak for "intrusion associated" and 'Broken Hill' style mineralization. No significant new mineralization was discovered. The PICA showing 800 meters south of the FINN showing (082M186) appears to be a remnant of a zinc rich massive sulphide horizon. Samples taken earlier returned over 15% zinc over 0.5 meter.

The Finn showing was acquired in September 2000 by the writer. Detailed mapping (see accompanying geological plan) revealed that the showing actually occupies the east limb of an assumed synform and that the mineralized horizon may continue to plunge to the northwest in areas not explored by earlier workers.

The ISH property was acquired by the writer in Oct 2000 to cover the area hopefully hosting the source of a massive sulphide float cobble returning 5.6% zinc along with strongly anomalous lead and silver (8.4 ppm). For additional details please refer to the attached report "Prospecting report on the ISH property" by the writer. No significant zinc mineralization was discovered, however skarn associated anomalous gold-bismuth-copper mineralization was discovered.

MAP 6 covers part of the Broken Hill Property owned by the writer. Samples (Navan 1,2 and Vista 3a, 3c) taken while night lamping for tungsten mineralization were of fluorescing hydrozincite of samples that returned up to 8.6% zinc (Navan 1). Fluorescing plagioclase in pegmatitic rock was also noted.

MAP 7 (082M085) cover followup sampling of three target areas. On the Biz property

(NW area of map) samples of altered and mineralized material north and west of the Bizar showing failed to locate new mineralization. The area sampled was chosen by the writer as a topographic high on airphotos similar to the area of positive relief hosting the Bizar (082M267) showing.

Sample AR098 taken in 1998 but only analyzed in 2001 returned very anomalous rare earth values. This rock appears to be a potassium rich high level intrusion breccia that may have come from an unmapped zoned ultramafic plug to the south of Oliver Creek. Followup sampling (UAR-01,2,3) returned additional anomalous float. Sample OLM-01-05 was a followup sample of a drainage hopefully draining the source of the REE mineralization.

Samples OLR-01-01,2,3,4,5,6 were samples taken as followup for high grade zinc mineralization, and as returned in sample "078" very high grade "Bizar" style gold mineralization. Subsequent work revealed that the sample sent in as AR078 was probably a sample from the Bizar showing (AR158). Additional zinc rich mineralization in an outwash fan from a drainage returned additional massive sphalerite and pyrrhotite mineralization with similarities to the other "Broken Hill" type occurrences and showing in the region. Conversations with Trygve Hoy and other, suggests that the source of this mineralization being Ruddock Creek (8 km south) is very unlikely. The writer has made a exploration agreement with Cumberland Resources Ltd. for further exploration in the area.

MAP 8 is a 1:50,000 scale claim map of the BIZ claims hosting the Bizar showing.

MAP 9 cover part of map sheet 082M074 southeast of Avola. Exploration for Broken Hill style and Bizar style mineralization. Although strongly altered and mineralized rocks with the possibility of hosting gold mineralization were located and sampled no anomalous values were returned.

MAP 10 is map sheet 082M065. In an effort to access Mammoth creek for REE element followup on an RGS anomaly the writer sampled Denney Creek (moss mat DEN-01-01). Results returned weakly anomalous REE indicators. Mammoth Creek was not road accessible due to impassable road washouts.

MAP 11 covers part of 082M-077 over the lower part of Hoskins Creek. The program is part of the Columbia Project. I went up there at the suggestion of Denis DeLisle and was accompanied by him to search for ultramafic hosted copper mineralization. Only weakly mineralized secondary copper bearing carbonated veins were located, (HOS-01-01,2,3).

MAP 12 covers the RIO claims which the writer acquired by staking in mid May 2001 to cover the RIO showing (082M-116) tungsten-copper skarn mineralization. Map 12A is a detail prospecting map showing the sample locations, RIO-01-01 - 30. The writer did not locate mineralization with grades similar to that discovered earlier (up to 7% tungsten). However the intensity of the alteration with the sporadic mineralization suggests to the

writer that the exposures may be near the top of a mineralizing system.

MAP 13 covers the Ladybug property and LADYBUG showing (082M-265) co-owned by the writer with Mr. David Pipe. Two sampling programs (LBR-01-01 - 18) up the eastern slope of Mt. Fowler resulted in the discovery of high grade magnetite (LBR-01-03 - 22% iron) and moderate grades of zinc-lead-silver (LBR-01-14 1.9% Zn, 2.2% Pb and 59 g/t Ag) exoskarn style mineralization. Both mineralization styles are hosted by similar rocks and are also anomalous in arsenic, bismuth cadmium and sporadically anomalous in tungsten, nickel. Chloritic calcareous intrusives (carbonate contamination) were located and sampled (LBR-01-17). This rock was weakly anomalous in barium, lanthanum, vanadium, yttrium, lead and zinc.

MAP 14 covers the STEEP (082M-118) gold-copper-bismuth skarn occurrence. Samples of two mineralized intersections by the writer of hole 258-07 of semi-massive pyrrhotite mineralized rock returned over 6 g/t gold in each sample. The initial core sampling was very broad (average 3 meters per sample) resulting in uncertainties of mineralization for gold. This sampling provides increased certainty for pyrrhotite associated gold mineralization, however its apparently sporadic nature (artifact of overly broad sampling???) indicates that more detailed geoscience work is required.

MAP 15 covers the northern part of the Adams River drainage and assists in location of 1998 samples analyzed in 2001. The samples were sent in for mostly gold except for AR-098 multielement. these samples were deemed not significantly mineralized to warrant sampling in previous programs. with the exception of 98-078 (miss sample) and 98-098 all submitted samples failed to return more than very weakly anomalous gold.

This concludes my report

Leo Lindinger

**PROSPECTING ASSESSMENT REPORT**

**ON THE**

**ISH PROPERTY**

**KAMLOOPS MINING DIVISION**

**NTS 082M/14W**

**LAT. 51° 54' N LONG. 119° 27' W**

**BY**

**J.E.L. (LEO) LINDINGER, P.Geo.**

**DECEMBER 27, 2001**

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## Summary

The ISH Property covers a 2 kilometer portion of the calc-silicate stratigraphy favourable for hosting "Broken Hill" or "shuswap" type zinc-lead-silver sulphide deposits that are found in the Columbia and Monashee mountains.

The Property is accessible via the Elevator Logging road which originates from the 0.5 kilometer mark of the Finn Creek Logging Road. The Finn Creek Logging Road originates from the Yellowhead Hwy.(5), 18 kilometers north of the village of Avola and 200 road kilometers north of Kamloops, B.C.. The property is located on map sheet 082M/14W, in the Kamloops Mining Division.

The writer in October 2000 discovered mineralized float in till that returned up to 5.25% zinc 2% lead and 8.4 g/t silver. The ISH claims were staked to cover the area surrounding the location of this sample.

The 2001 program comprised prospecting and rock sampling. 35 rock samples were taken of mineralized float and weakly mineralized bedrock on the property. Prospecting revealed that the carbonate stratigraphy occurs as two bands some three hundred meters apart. The lower band strikes north and dips moderately east at about 10 to 40 degrees. The upper band 300 meters east of the lower band strike north-northwesterly and dips less than 20 degrees east. Although the bands are relatively continuous and sheetlike, detailed observations revealed that they are intensely isoclinally folded.

Discovered were thin bands of massive iron sulphide mineralization hosted by siliceous cherty rock returned anomalous copper, zinc and nickel values. Also discovered, associated with the carbonate rocks were siliceous pyrrhotite breccia and replacement sulphide mineralization. Samples of this material returned up to 220 ppb gold with accompanying anomalous tungsten, bismuth and copper values, with accompanying weakly anomalous arsenic, antimony, vanadium and molybdenum. This mineralization has geochemical and geological similarities to the nearby Bizar, Readymix, and further away GQ pyrrhotite rich intrusion associated vein, replacement and skarn occurrences.

Recommended work on the ISH property include geochemical sampling to look for "Broken Hill" style zinc-lead-silver mineralization, and perhaps more importantly for "Bizar-Readymix-GQ" style gold-bismuth-copper pyrrhotite quartz breccia vein, replacement, and skarn mineralization. Additional work would be contingent on the positive results of this and other programs.

## Introduction

The ISH claims were staked to cover strike extensions of a portion of the stratigraphy favourable for hosting high grade "Broken Hill"-shuswap type zinc-lead-silver base metal mineralization between the Finn Occurrence 2 Kilometers north of, and the newly discovered Vista, Navan, Mike occurrences 6 to 12 kilometers south of the property.

The claims also cover the area around the location of a mineralized float sample in till that returned 5.25% zinc, 2% lead and 8.4 g/t silver taken earlier by the writer.

This report documents the results of four days of prospecting on the ISH Property near Avola, British Columbia, discusses the findings, and make recommendations to further enhance the economic potential of this property.

## Location and Access

The ISH property is 13 kilometers north of the village of Avola, B.C. Access to the property is north from Avola on the Yellowhead Highway (5) for 18 kilometers, then east onto the Finn Creek logging road for 0.5 km, then south onto the Elevator logging road. The Elevator logging road switchbacks up the steep east side of the North Thompson River valley south of Finn Creek. The property covers from 1.5 to 8 kilometers of the Elevator logging road.

## Physiography

The region lies within the northwest end of the Shuswap Highland part of the Interior Plateau. More locally the North Thompson River occupies a south draining, steeply incised valley, the floor of which is about 1200 meters below the surrounding plateau. The ISH Property covers a 1.75 square kilometer portion of the east side of the North Thompson River valley 13 kilometers north of Avola and south of Finn Creek. The property slopes steeply west. The lowest part of the property is in the North Thompson River Valley bottom at 640 meters. The highest part is the southwest corner at 1280 meters. The floodplain of the North Thompson River 200 meters west is at 580 meters. The property was treed by lodgepole pine, interior fir, black spruce, balsam and red cedar, but was intensely burned in 1998 and logged in 1999 and 2000.

# BRITISH COLUMBIA

0 250 KM

ISH  
PROPERTY

KAMLOOPS

VANCOUVER

## LOCATION MAP ISH PROPERTY

KAMLOOPS M.D. 51 Deg. 54' N - 119 Deg. 27' W

Figure 1 December 27, 2001

GRAPHICS BY RENAISSANCE GEOSCIENCE SERVICES

## Property

The ISH Property comprise seven two post claims (7 units) covering 175 hectares. The claims lie within the Kamloops Mining Division at Latitude 51° 53' North, Longitude 119° 27' West on NTS sheet 082M/14W and are owned by Leo J. Lindinger. The claims have been grouped as the ISH group Event# 317328 dated October 5, 2001.

Claim Name	Tenure No.	Expiry Date.
ISH 1	381570	October 6, 2002*
ISH 3	381572	October 6, 2002*
ISH 4	381573	October 6, 2002*
ISH 5	381574	October 6, 2002*
ISH 6	381575	October 6, 2002*
ISH 7	381576	October 6, 2002*
ISH 8	381577	October 6, 2002*

\* Assuming acceptance by the Ministry of Energy and Mines of the assessment work this report documents in Notice Of Work Event# 3172331.

## History

The Finn Occurrence, 2 kilometers north of the ISH property was discovered in 1978 (Murrell, 1980). Cominco Ltd. optioned the property, and in 1980 completed an extensive geochemical program that extended south onto the current ISH property. This survey generated several moderately anomalous zinc, lead and silver soil and silt anomalies. The ISH property now covers the strongest unexplained soil and silt anomalies from that survey. Cominco in 1981 drill tested the Finn Showing with disappointing results. The property was allowed to lapse. In October 1991, Teck Corp. staked the area including the ground now covered by the ISH claims (Evans 1993). Teck completed a property wide mapping program, and Evans mapped a portion of the carbonate stratigraphy the ISH property now covers. Teck also completed a self potential survey and a trenching program in the vicinity of the Finn Showing. The claims were allowed to lapse in 1996.

The Finn showing was intermittently staked after 1996 but no work was recorded and entire area was untenured in August 2000. In September 2000 the writer discovered the Vista, Navan and Mike high grade zinc-lead-silver massive sulphide showings south of the ISH claims in the Fowler Lake area. The Vista-Navan property was subsequently

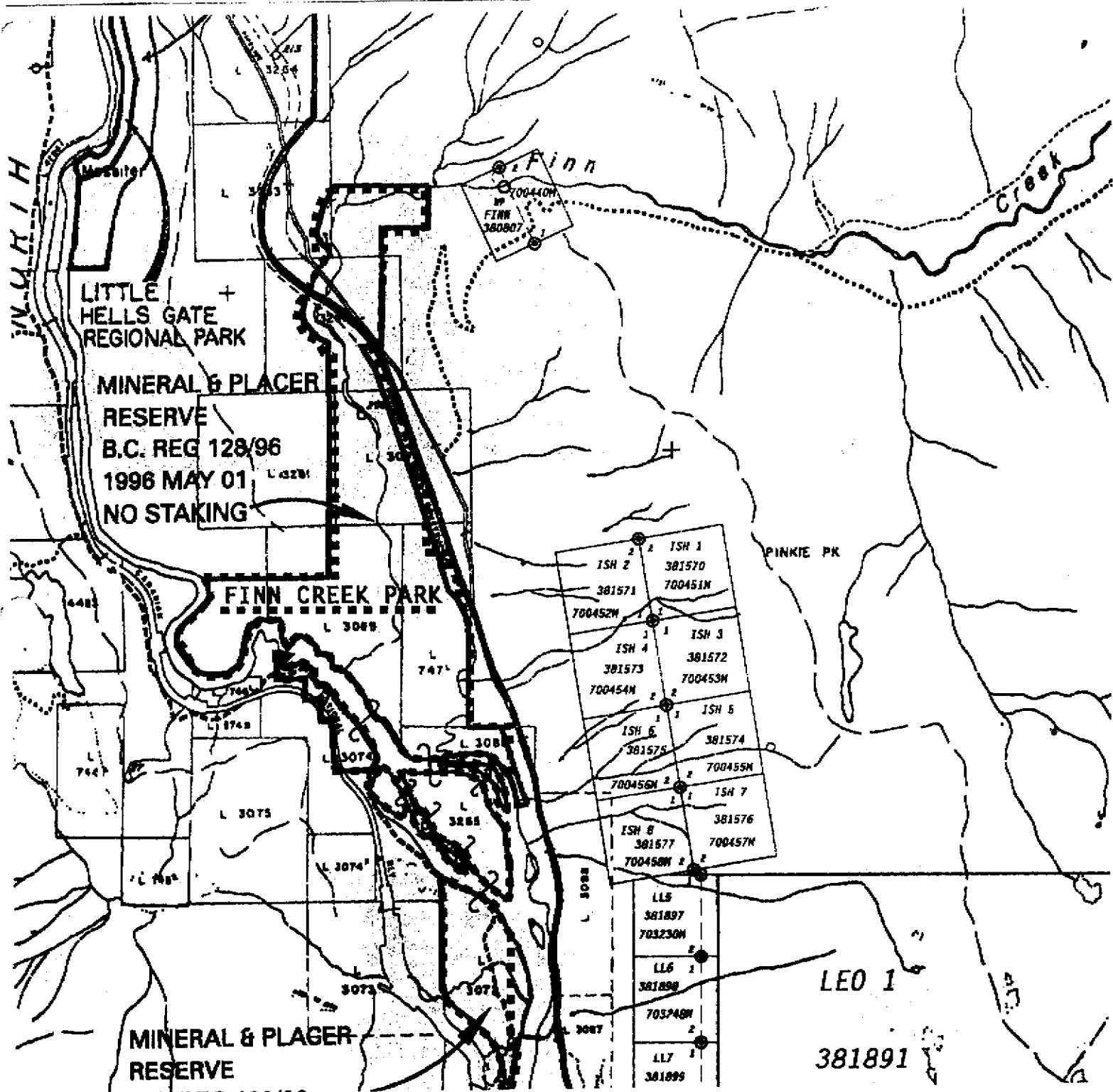


FIGURE 2 - PROPERTY MAP  
SCALE 1:31,360

optioned to Cassidy Gold Corp. that same month. The writer subsequently staked the Finn occurrence on September 17, 2000, and then the ISH claims on October 6, 2000 to tie up more of the prospective stratigraphy and showings that Cassidy, at the time did not want.

In January 2001, Canarc Resources Ltd. optioned the Finn and ISH claims. They returned the properties back to the writer in June 2001. The writer undertook mapping and prospecting programs on the Finn and ISH properties during the summer of 2001.

### Regional Geology

The rocks underlying the region are largely unmapped in any detail but occur within the Shuswap Metamorphic Complex. These rocks are assumed to comprise Upper Proterozoic to early Palaeozoic marine off shore sediments and rare volcanics derived from the ancestral margin of north America (Wheeler 1992, pp 142-145), assigned to the Kootenay Terrane portion of the Omineca Belt. East of the Adams River, similar lithologies hosting the Ruddock Creek Zn-Pb-Ag occurrences have been placed within the Horsethief Creek Group (Gibson, 1991).

These rocks have undergone extensive metamorphism and multiple episodes of deformation due to collisional orogenic episodes during the Devonian, early Jurassic, mid to late Cretaceous, and early and mid Tertiary. Coincident with these orogenic episodes, intrusive bodies have invaded the rock package.

Summarizing, it is assumed that host lithologies underwent deep burial and deformation until the earliest Tertiary. Significant uplift, and erosion occurred from the mid to late Tertiary. The uplift was accompanied by north trending trans-tensional (basin and range) faulting and emplacement of felsic to lamprophyric dykes.

Significant sedimentary (carbonate) hosted or associated zinc-lead-silver massive sulphide deposits of assumed syngenetic origin are the most important metallic deposits in the region. The Ruddock Creek, CK, Finn, and the new Vista-Navan-Mike discoveries are hosted by moderately to highly deformed carbonate bearing rocks. These deposits occur in a 20 km by 55 km west northwesterly trending belt that cross from east to west the Oliver-Seymour Pass, Upper Adams, North Thompson, Mad and Raft Rivers. Within

## Zn-Pb-Ag Occurrences of the Northern Kootenay Terrane

- 1 Ruddock Creek
- 2 Vista-Navan
- 3 CK
- 4 Rift
- 5 Goldstream  $Cu, Zn$

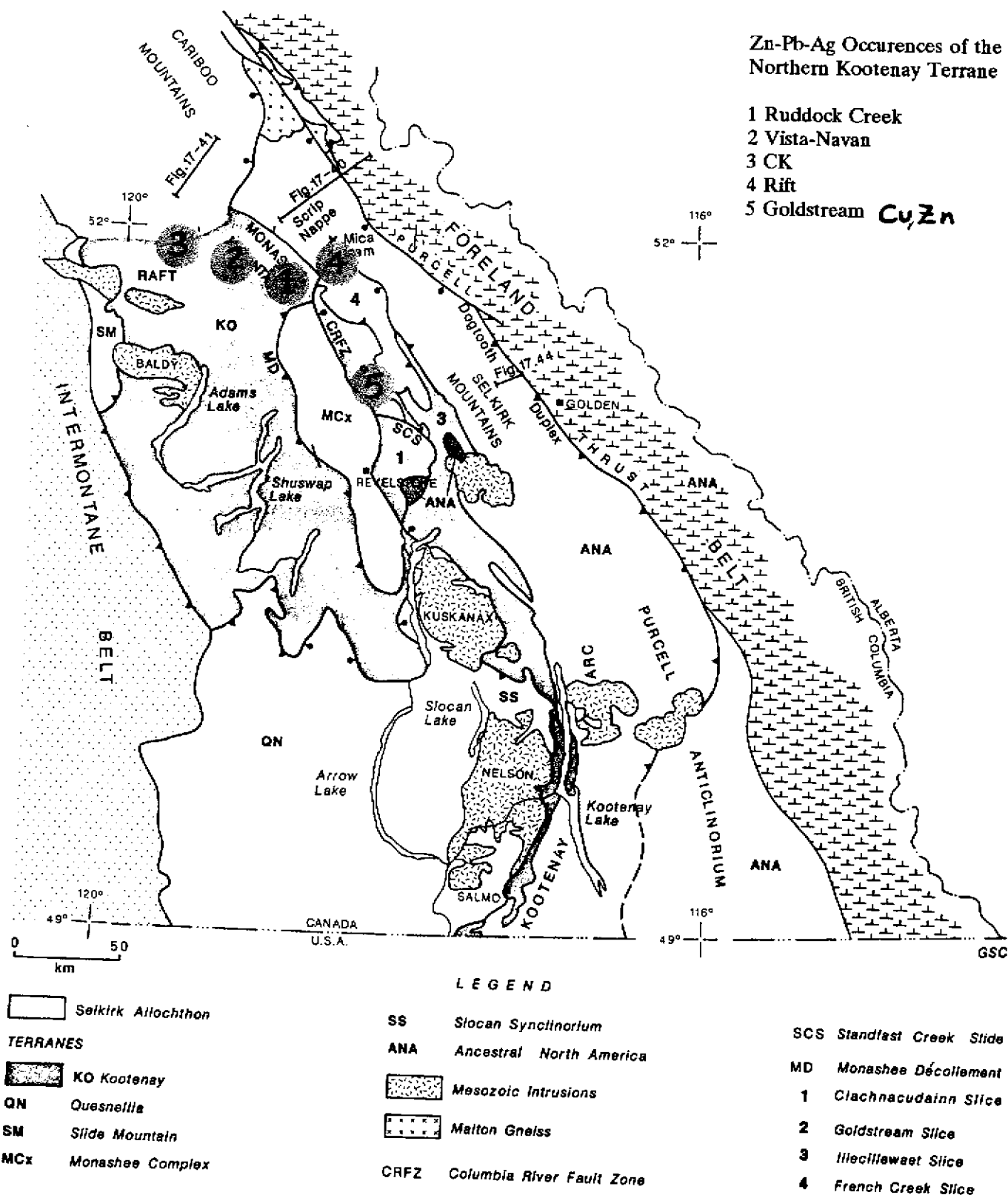


Figure 17.30. Southeastern Omineca Belt showing the distribution of terranes, some of the regional structures, and the location of structural cross-sections in Figures 17.40, 17.41 and 17.44.

## FIGURE 4 - REGIONAL GEOLOGY

From Wheeler, 1992: Page 608

this belt are three known clusters containing at least 30 known zinc rich base metal occurrences and prospects. The clusters are generally aligned along north trending large scale folds. Significant thicknesses of mineralization may be present where east trending secondary folding occurs. These occurrences range from multimillion tonne deposits (Ruddock Creek - 5 million tonnes grading 7.5% zinc, 2.5% lead, 25 km east, and the CK - 1.5 million tonnes grading 8.6% zinc, 25 km west), to numerous thin exposures, less than 100 meters long. All of these occurrences can be considered partially explored. Carbonatite hosted ultramafic pegmatitic niobium-tantalum occurrences are found 60 km north of the property (BCDEM Minfile database).

Other base or precious metal deposit types known in the region are epigenetic deposits usually related to an intrusive event. Some of these are: Bizar-Readymix-GQ style high and low grade gold-bismuth-copper-arsenic-tungsten veins, replacement and skarn showings of unknown, but possibly Tertiary age; Copper, tungsten, molybdenum and gold bearing intrusive and associated skarn and wallrock hosted deposits; and metamorphic related gemstone and industrial mineral (ie. garnet) deposits.

#### Property Geology

The ISH Property geology comprises north-northwest trending moderate east dipping sequence of Shuswap stratigraphy. The stratigraphic package contains portions of two carbonate bands that are coincident with zinc soil anomalies and considered prospective for hosting stratiform Zn-Pb-Ag mineralization.

Evans 1993, Page 4 writes;

"...The sequence consists of three distinct lithologic packages which are strongly intruded by Eocene intrusive sills and dykes.

The lowest structural package is dominated by biotite schists and amphibolites. This package is likely derived from a pelitic-mafic volcanic protolith which forms a thick monotonous sequence several hundred meters thick. This is overlain by a 10-50 meter thick sequence of graphitic



quartzite, marbles and calc-silicates. This distinctive package hosts the Zn-Pb-Ag mineralization on the property. The upper package consists of biotite schists and mixed quartzite and forms a monotonous section at least a hundred meters thick.

In all sections Eocene pegmatite and monzonitic sills and dykes invade the shuswap rocks in varying proportions from 20 to 80% (average 40%)...  
...These intrusive commonly disrupt the foliation and intrude as sills which rapidly change to crosscutting dykes.

Folding is complex and poorly understood on the property. The axial plane related to the dominant foliation is NW trending with a moderate NE dip. Commonly small scale isoclinal folds are seen related to this foliation. other folds are seen related to this foliation. Other folds included broad open folds"... ...Another style of folding is small scale kink/folds commonly seen at right angles to the foliation. The quartzite and marble-calc-silicate section can be"... ...traced for 20 kilometers along strike"... ...the potential for more mineralization is promising."

#### 2001 Prospecting Program

The property was visited on June 23, 24, 27, August 18, 21, September 15, and 19, 2001. The June work comprised the bulk of the prospecting activity. The August visits were to complete followup sampling, and on the 21 to update Mr. Trygve Hoy, P.Eng. on the geology of the area including the ISH Claims. The September 15 visit was to complete additional followup sampling and the September 21 visit was with Mr. Roger March, P.Geo. as part of a multi property site visit.

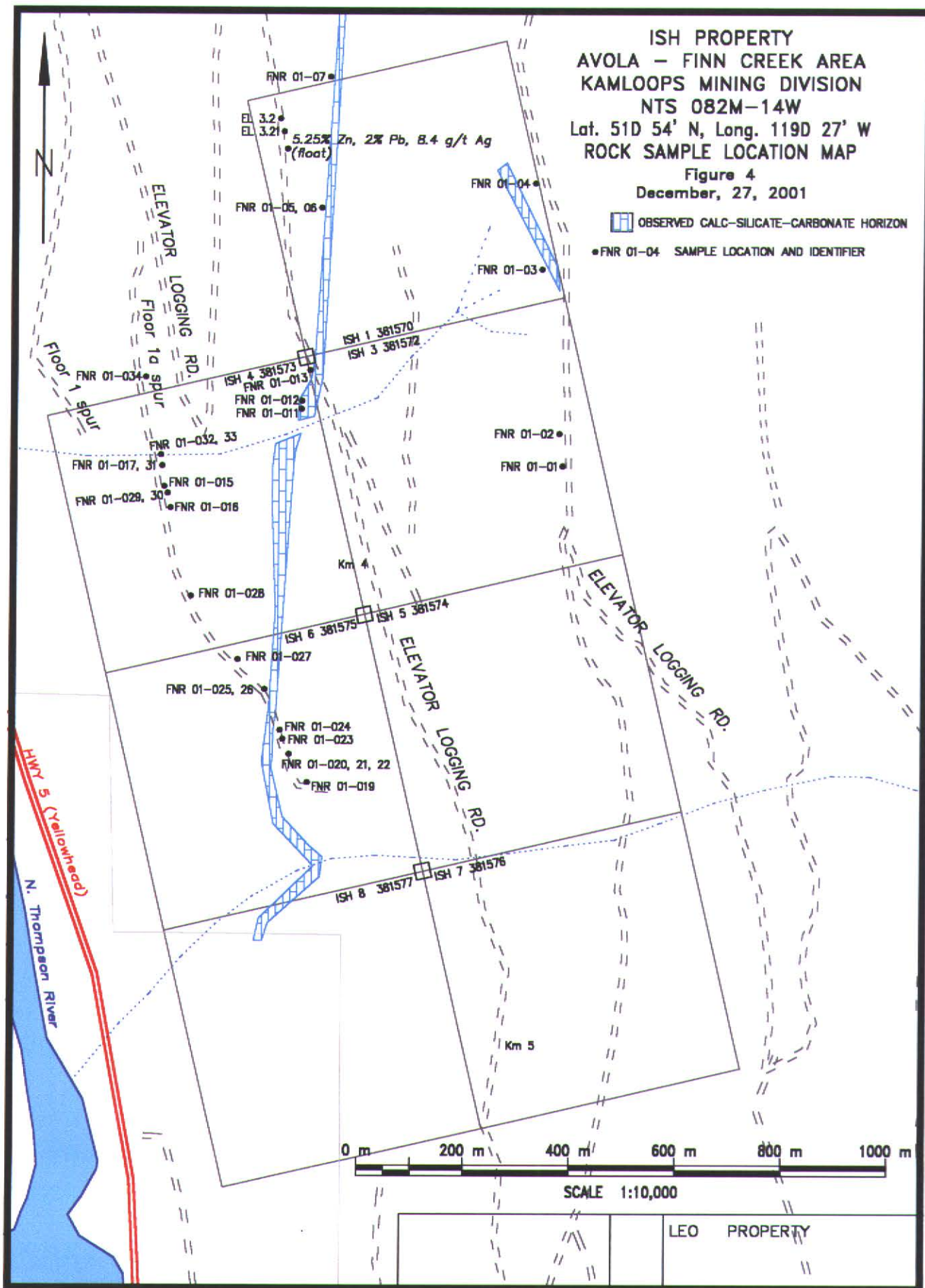
The carbonate stratigraphy on the property was prospected moderately thoroughly for evidence of economic sulphide mineralization, evidence of exhalative horizons, and possible carbonatite rocks that have the potential for hosting rare earth elements such as tantalum and niobium. The prospecting activity comprised following the carbonate

ISH PROPERTY  
 AVOLA - FINN CREEK AREA  
 KAMLOOPS MINING DIVISION  
 NTS 082M-14W  
 Lat. 51D 54' N, Long. 119D 27' W  
 ROCK SAMPLE LOCATION MAP

Figure 4  
 December, 27, 2001

 OBSERVED CALC-SILICATE-CARBONATE HORIZON

• FNR 01-04 SAMPLE LOCATION AND IDENTIFIER



LEO PROPERTY

stratigraphy across the property, and sampling any interesting looking rock. The undisturbed surface carbonate exposures were quite weathered and pitted. Therefore it was where the recently constructed logging roads cross the stratigraphic horizon that the best "looking rocks" were found and most sampling took place. 34 rock samples were taken for description and 32 were sent for analyses. All visually significantly mineralized rocks sampled and sent in for multielement and if warranted gold analyses at ALS-Chemex Laboratories Ltd. in Vancouver. Details of the analytical procedures used are included with the analytical results in Appendix 2.

## Results

Please refer to Appendix 1, "Analytical results" and Appendix 2, "Rock Descriptions"

One fairly continuous horizon of carbonate strikes northerly and dips easterly at about 25 degrees through the property entering it near its southwest corner and exiting near the northeast corner. A second north northwest striking, very shallowly east dipping horizon about 300 meter east (up hill) was discovered while following up a zinc-lead in soil anomaly from the 1980 Cominco work. No significant "Broken Hill" or "shuswap type" zinc-lead-silver mineralization was discovered during prospecting. The sulphide rich samples taken in these areas were mostly iron sulphides that upon analyses returned anomalous copper and weakly anomalous lead, zinc and nickel. While prospecting the debuilt south end of "Floor 1A" samples of sulphide rich schist, pyrrhotite matrix brecciated intrusive, and sulphidic skarn were taken. Several samples reported highly anomalous bismuth, and tungsten values associated with anomalous copper, and weakly to sporadically anomalous vanadium, arsenic, molybdenum and antimony. Reanalyses of selected pulps for gold returned up to 220 ppb.

## Conclusion

Preliminary prospecting and rock sampling on the ISH property failed to located any high grade zinc bearing massive sulphide mineralization. However iron sulphide bearing cherty or exhalitive rocks possibly representing distal or weak proximal expressions of sulphide mineralization were located that returned anomalous in copper, and weakly anomalous in lead, zinc and nickel values. Sulphidic matrix brecciated intrusive, cal-silicate, skarn returned anomalous gold, bismuth and tungsten values along with weakly anomalous copper nickel, molybdenum, arsenic and antimony.

## Expenditures

EXPENSE ITEM	DETAILS	CHARGE
Prospector	4 days @ \$250.00	\$ 1,000.00
Supplies and equipment rental		\$ 80.00
Travel		\$ 400.00
Analyses		\$ 653.17
Report		\$ 700.00
Total		\$ 2,833.17

## Recommendations

Further work, especially on the gold sulphide skarn area is recommended. The recommended work program would comprise rock and soil sampling in an effort to located higher grade gold material. A row of soil samples should be taken about 25 to 50 meters below all of the carbonate horizons to explore for buried zinc and gold massive sulphide mineralization.

# **Selected references**

- Evans, G. 1993: Geological, Geochemical and Geophysical Assessment Report on the Blue River Property for Teck Corp.. 10 pages plus attachments. EMPR Assessment Report# 22742.
- Gibson, G. 1991: Geological Report on the Hos 1-19 Mineral Claims, for Bethlehem Resources Corp. 16 pages plus attachments. EMPR Assessment Report# 21201.
- Hoy, T. 1996: Broken Hill-Type Pb-Zn-Ag+/-Cu. BC Mineral Deposit Model S01, 5 pages.
- Lewis, T.D. 1883: Geological and Geochemical Report on the Otter Creek Property, for Noranda Exploration Company, Ltd. 5 pages plus attachments. EMPR Assessment Report# 11904.
- Lindinger, 2000: Report on the Leo Property. Unpublished report for La Rock Mining Corp. 10 pages plus attachments.
- Lindinger, 2001: Geochemical, Geophysical, and Diamond drilling assessment report on the Broken Hill-Leo property for Cassidy Gold Corporation. 22 pages plus attachments.
- Lindinger, 2001: Geological assessment report on the Finn Property. 9 pages plus attachments.
- MacIntyre D. 1992: Sedimentary Exhalative Zn-Pb-Ag. BC Mineral Deposit Model E14, 4 pages.
- Murrell, M. 1080: Geochemical Assessment report on the Finn 1 Claim for Cominco Ltd.. 2 pages plus attachments. EMPR Assessment Report# 9027.
- Scammell, R.J. 1990: Preliminary results of stratigraphy, structure, and metamorphism in the southern Scrip and northern Seymour ranges, southern Omineca Belt, British Columbia. In Current Research, Part E, Geological Survey of Canada, Paper 90-1E: pp 97-106.
- Wheeler J.O., & Palmer A.R. ed, 1992: Geology of the Cordilleran Orogen in Canada. Geology of North America, Volume G-2; Geology of Canada No. 4, pages 146, 162, 195-196, 293, 508, 514, 545-546, 607-610, 619, 621-622, 715, 720.

## STATEMENT OF QUALIFICATIONS

I, J E. L.(Leo) Lindinger, hereby do certify that:

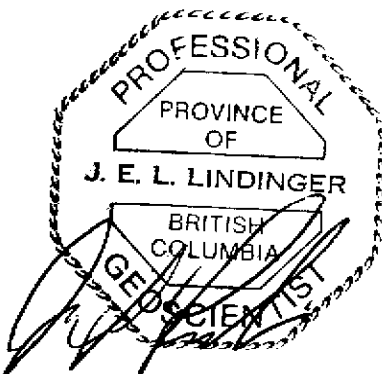
I am a graduate of the University of Waterloo (1980) and hold a BSc. degree in honours Earth Sciences.

I have been practicing my profession as an exploration and mine geologist continually for the past 21 years.

I am a registered member, in good standing as a Professional Geoscientist with the Association of Professional Engineers and Geoscientists of the Province of British Columbia (1992).

I am the registered owner of the mineral claims called the ISH property.

The assessment work this report documents was performed by myself on from June 23 to September 15, 2001.



J.E.L.(Leo) Lindinger. P. Geo.

## **APPENDIX I**



# ALS Chemex

Aurora Laboratory Services Ltd.  
Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2G1  
PHONE: 604-984-0221 FAX: 604-984-0218

## RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

A0121305

Comments: ATTN: LEO LINDINGER

### CERTIFICATE

A0121305

(RJH) - RENAISSANCE GEOSCIENCE SERVICES

Project: ADAMS  
P.O. #:

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 10-AUG-2001.

### SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
PUL-31	24	Pulv. <250g to >85%/-75 micron
STO-21	24	Reject Storage-First 90 Days
LOG-22	24	Samples received without barcode
CRU-31	24	Crush to 70% minus 2mm
SPL-21	24	Splitting Charge
229	4	ICP - AQ Digestion charge
3285	20	ICP-587 Tri Acid Dig'n Charge

\* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

### ANALYTICAL PROCEDURES 1 of 2

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
1433	24	Weight of received sample	BALANCE	0.01	1000.0
Au-AA23	13	Au-AA23 : Au ppb: Fuse 30 grams	FA-AAS	5	10000
Au-AA25	1	Au g/t: 1 assay ton, AA finish	FA-AAS	0.03	150.00
Zn-AA46	1	Zn %: Conc. Nitric-HCl dig'n	AAS	0.01	50.0
Ag-ICP41	4	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
Al-ICP41	4	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
As-ICP41	4	As ppm: 32 element, soil & rock	ICP-AES	2	10000
B-ICP41	4	B ppm: 32 element, rock & soil	ICP-AES	10	10000
Ba-ICP41	4	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
Be-ICP41	4	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
Bi-ICP41	4	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
Ca-ICP41	4	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
Cd-ICP41	4	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
Co-ICP41	4	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
Cr-ICP41	4	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
Cu-ICP41	4	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
Fe-ICP41	4	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
Ga-ICP41	4	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
Hg-ICP41	4	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
K-ICP41	4	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
La-ICP41	4	La ppm: 32 element, soil & rock	ICP-AES	10	10000
Mg-ICP41	4	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
Mn-ICP41	4	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
Mo-ICP41	4	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
Na-ICP41	4	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
Ni-ICP41	4	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
P-ICP41	4	P ppm: 32 element, soil & rock	ICP-AES	10	10000
Pb-ICP41	4	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
S-ICP41	4	S %: 32 element, rock & soil	ICP-AES	0.01	10.00
Sb-ICP41	4	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
Sc-ICP41	4	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
Sr-ICP41	4	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
Ti-ICP41	4	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
Tl-ICP41	4	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000





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RENAISSANCE GEOSCIENCE SERVICES

878 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

A0121305

Comments: ATTN: LEO LINDINGER

## CERTIFICATE

A0121305

(RJH) - RENAISSANCE GEOSCIENCE SERVICES

Project: ADAMS  
P.O. #:

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 10-AUG-2001.

### SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
FUL-31	24	Pulv. <250g to >85%/-75 micron
STO-21	24	Reject Storage-First 90 Days
LOG-22	24	Samples received without barcode
CRU-31	24	Crush to 70% minus 2mm
SPL-21	24	Splitting Charge
229	4	ICP - AQ Digestion charge
3285	20	ICP-587 Tri Acid Dig'n Charge

\* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

### ANALYTICAL PROCEDURES 2 of 2

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
U-ICP41	4	U ppm: 32 element, soil & rock	ICP-AES	10	10000
V-ICP41	4	V ppm: 32 element, soil & rock	ICP-AES	1	10000
W-ICP41	4	W ppm: 32 element, soil & rock	ICP-AES	10	10000
Zn-ICP41	4	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000
Ag-ICP61	20	Ag ppm:Tri Acid Dig. ICP Package	ICP-AES	0.5	100
Al-ICP61	20	Al %:Tri Acid Dig. ICP Package	ICP-AES	0.01	25.00
As-ICP61	20	As ppm:Tri Acid Dig. ICP Package	ICP-AES	5	10000
Ba-ICP61	20	Ba ppm:Tri Acid Dig. ICP Package	ICP-AES	10	10000
Be-ICP61	20	Be ppm:Tri Acid Dig. ICP Package	ICP-AES	0.5	1000
Bi-ICP61	20	Bi ppm:Tri Acid Dig. ICP Package	ICP-AES	2	10000
Ca-ICP61	20	Ca %: Tri Acid Dig. ICP Package	ICP-AES	0.01	25
Cd-ICP61	20	Cd ppm:Tri Acid Dig. ICP Package	ICP-AES	0.5	500
Co-ICP61	20	Co ppm:Tri Acid Dig. ICP Package	ICP-AES	1	10000
Cr-ICP61	20	Cr ppm:Tri Acid Dig. ICP Package	ICP-AES	1	10000
Cu-ICP61	20	Cu ppm:Tri Acid Dig. ICP Package	ICP-AES	1	10000
Fe-ICP61	20	Fe %:Tri Acid Dig. ICP Package	ICP-AES	0.01	25.00
K-ICP61	20	K %:Tri Acid Dig. ICP Package	ICP-AES	0.01	10.00
Mg-ICP61	20	Mg %:Tri Acid Dig. ICP Package	ICP-AES	0.01	15.00
Mn-ICP61	20	Mn ppm:Tri Acid Dig. ICP Package	ICP-AES	5	10000
Mo-ICP61	20	Mo ppm:Tri Acid Dig. ICP Package	ICP-AES	1	10000
Na-ICP61	20	Na %:Tri Acid Dig. ICP Package	ICP-AES	0.01	10.00
Ni-ICP61	20	Ni ppm:Tri Acid Dig. ICP Package	ICP-AES	1	10000
P-ICP61	20	P ppm:Tri Acid Dig. ICP Package	ICP-AES	10	10000
Pb-ICP61	20	Pb ppm:Tri Acid Dig. ICP Package	ICP-AES	2	10000
S-ICP61	20	S %:Tri Acid Dig. ICP Package	ICP-AES	0.01	10.00
Sb-ICP61	20	Sb ppm:Tri Acid Dig. ICP Package	ICP-AES	5	10000
Sr-ICP61	20	Sr ppm:Tri Acid Dig. ICP Package	ICP-AES	1	10000
Ti-ICP61	20	Ti %:Tri Acid Dig. ICP Package	ICP-AES	0.01	10.00
V-ICP61	20	V ppm: Tri Acid Dig. ICP Package	ICP-AES	1	10000
W-ICP61	20	W ppm: Tri Acid Dig. ICP Package	ICP-AES	10	10000
Zn-ICP61	20	Zn ppm:Tri Acid Dig. ICP Package	ICP-AES	2	10000



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RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

Project: ADAMS  
Comments: ATTN: LEO LINDINGER

Page Number: 1-A  
Total Pages: 1  
Certificate Date: 10-AUG-2001  
Invoice No.: 10121305  
P.O. Number:  
Account: RJH

## CERTIFICATE OF ANALYSIS

A0121305

SAMPLE	PREP CODE	Weight Kg	Au ppb FA+AA	Au g/t	Zn %	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm
PKR-01-01	94139402	0.62	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PKR-01-02	94139402	0.48	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PKR-01-04	94139402	0.72	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PKR-01-07	94139402	0.82	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PKR-01-08	94139402	0.58	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FNR-01-13	94139402	0.78	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WRTR-01-04	94139402	0.48	45	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
OLR-01-02	94139402	0.54	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
OLR-01-04	94139402	0.88	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
EL.3.2	94139402	0.82	< 5	-----	-----	< 0.2	2.09	< 2	< 10	50	< 0.5	2	0.03	< 0.5	10
EL.3.21	94139402	0.62	< 5	-----	-----	< 0.2	0.11	< 2	< 10	< 10	< 0.5	< 2	0.05	< 0.5	< 1
OLR-01-01	94139402	0.40	< 5	-----	-----	0.6	0.66	< 2	< 10	< 10	7.0	< 2	0.55	1.5	46
OLR-01-03	94139402	0.30	< 5	-----	19.55	5.6	0.63	< 2	< 10	20	< 0.5	< 2	1.70	193.5	21
AR-01-200	94139402	0.48	-----	< 0.03	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FNR-01-01	94139402	0.44	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FNR-01-02	94139402	0.66	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FNR-01-03	94139402	0.70	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FNR-01-04	94139402	0.62	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FNR-01-06	94139402	0.46	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FNR-01-07	94139402	0.54	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FNR-01-12	94139402	0.56	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WRTR-01-05	94139402	0.36	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WRTR-01-06	94139402	0.54	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WRTR-01-08	94139402	0.16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

CERTIFICATION:

*Leo Lindinger*



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RENAISSANCE GEOSCIENCE SERVICES

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V2B 7X8

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Page Number: 1-B

Total Pages: 1

Certificate Date: 10-AUG-2001

Invoice No.: 10121305

P.O. Number:

Account: RJH

## CERTIFICATE OF ANALYSIS

A0121305

SAMPLE	PREP CODE	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm
PKR-01-01	94139402	----	----	----	----	----	----	----	----	----	----	----	----	----	----
PKR-01-02	94139402	----	----	----	----	----	----	----	----	----	----	----	----	----	----
PKR-01-04	94139402	----	----	----	----	----	----	----	----	----	----	----	----	----	----
PKR-01-07	94139402	----	----	----	----	----	----	----	----	----	----	----	----	----	----
PKR-01-08	94139402	----	----	----	----	----	----	----	----	----	----	----	----	----	----
FNR-01-13	94139402	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WRTR-01-04	94139402	----	----	----	----	----	----	----	----	----	----	----	----	----	----
OLR-01-02	94139402	----	----	----	----	----	----	----	----	----	----	----	----	----	----
OLR-01-04	94139402	----	----	----	----	----	----	----	----	----	----	----	----	----	----
EL.3.2	94139402	89	23	3.43	10	< 1	1.52	< 10	0.87	235	1	0.04	18	70	< 2
EL.3.21	94139402	87	4	0.29	< 10	< 1	0.07	< 10	< 0.01	10	< 1	0.03	3	130	2
OLR-01-01	94139402	7	658	>15.00	20	< 1	0.01	< 10	0.02	105	8	0.08	25	550	< 2
OLR-01-03	94139402	63	53	7.68	10	26	0.25	< 10	0.06	460	9	0.11	16	520	>10000
AR-01-200	94139402	----	----	----	----	----	----	----	----	----	----	----	----	----	----
FNN-01-01	94139402	----	----	----	----	----	----	----	----	----	----	----	----	----	----
FNR-01-02	94139402	----	----	----	----	----	----	----	----	----	----	----	----	----	----
FNN-01-03	94139402	----	----	----	----	----	----	----	----	----	----	----	----	----	----
FNN-01-04	94139402	----	----	----	----	----	----	----	----	----	----	----	----	----	----
FNN-01-06	94139402	----	----	----	----	----	----	----	----	----	----	----	----	----	----
FNR-01-07	94139402	----	----	----	----	----	----	----	----	----	----	----	----	----	----
FNR-01-12	94139402	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WRTR-01-05	94139402	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WRTR-01-06	94139402	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WRTR-01-08	94139402	----	----	----	----	----	----	----	----	----	----	----	----	----	----

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RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
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V2B 7X8

Project: ADAMS  
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Certificate Date: 10-AUG-2001  
Invoice No. : 10121305  
P.O. Number :  
Account : RJH

## CERTIFICATE OF ANALYSIS

A0121305

SAMPLE	PREP CODE	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Ag ppm (ICP)	Al % (ICP)	As ppm (ICP)	Ba ppm (ICP)
PKR-01-01	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	6.61	5	160
PKR-01-02	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	7.41	5	1020
PKR-01-04	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	7.48	30	440
PKR-01-07	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	6.95	< 5	170
PKR-01-08	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	4.42	15	510
FNR-01-13	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	7.81	20	610
WRTR-01-04	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1.0	4.53	85	170
OLR-01-02	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	5.79	< 5	470
OLR-01-04	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	7.25	< 5	610
EL.3.2	94139402	0.10	2	7	5	0.21	< 10	< 10	55	< 10	92	-----	-----	-----	-----
EL.3.21	94139402	0.04	< 2	< 1	4	< 0.01	< 10	< 10	< 1	< 10	12	-----	-----	-----	-----
OLR-01-01	94139402	6.77	< 2	< 1	28	< 0.01	< 10	< 10	1	< 10	14	-----	-----	-----	-----
OLR-01-03	94139402	5.62	32	< 1	16	0.03	< 10	< 10	46	< 10	>10000	-----	-----	-----	-----
AR-01-200	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	6.61	< 5	870
FNN-01-01	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	5.76	< 5	20
FNR-01-02	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	3.42	< 5	220
FNN-01-03	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	3.32	< 5	40
FNN-01-04	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	10.25	5	1000
FNR-01-06	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	8.14	5	380
FNR-01-07	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	6.08	5	460
FNR-01-12	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	7.98	< 5	440
WRTR-01-05	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	25	5.54	115	500
WRTR-01-06	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1.5	8.79	10	320
WRTR-01-08	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	5.36	5	480

CERTIFICATION: 



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## CERTIFICATE OF ANALYSIS

A0121305

SAMPLE	PREP CODE	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)
PKR-01-01	94139402	14.5	< 2	0.34	< 0.5	5	84	8	1.07	2.05	0.09	210	1	2.08	8
PKR-01-02	94139402	1.5	< 2	0.42	< 0.5	4	92	6	0.76	2.25	0.19	265	3	2.04	5
PKR-01-04	94139402	2.5	< 2	0.09	< 0.5	5	135	12	2.00	1.96	0.18	250	3	0.90	16
PKR-01-07	94139402	1.0	< 2	0.08	< 0.5	3	36	11	0.63	3.07	0.04	75	< 1	0.48	4
PKR-01-08	94139402	2.0	< 2	0.02	< 0.5	3	142	6	2.55	1.49	0.06	1160	7	0.08	12
FNR-01-13	94139402	0.5	< 2	0.37	< 0.5	5	54	79	1.08	5.19	0.08	50	1	1.44	3
WRTR-01-04	94139402	0.5	2	2.3	< 0.5	21	127	220	3.66	0.66	1.42	1360	496	1.90	61
OLR-01-02	94139402	1.0	< 2	0.70	< 0.5	15	259	69	2.90	1.79	0.67	190	13	1.23	41
OLR-01-04	94139402	2.0	< 2	0.68	< 0.5	23	222	73	3.66	2.76	1.09	390	7	1.18	40
EL.3.2	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
EL.3.21	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
OLR-01-01	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
OLR-01-03	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
AR-01-200	94139402	0.5	< 2	0.74	< 0.5	12	148	42	2.17	2.21	0.54	175	3	1.59	22
FNN-01-01	94139402	2.5	< 2	8.7	0.5	20	138	300	9.05	0.10	1.72	>10000	6	0.11	59
FNR-01-02	94139402	0.5	< 2	0.48	< 0.5	44	174	245	4.14	0.82	0.36	145	5	1.15	110
FNN-01-03	94139402	< 0.5	< 2	2.3	< 0.5	21	262	235	7.84	0.40	1.69	7570	3	0.10	42
FNN-01-04	94139402	1.0	< 2	7.6	< 0.5	35	264	168	6.02	1.35	0.74	1125	3	0.61	73
FNR-01-06	94139402	2.5	< 2	7.8	< 0.5	15	158	18	3.31	1.81	1.04	480	2	1.27	30
FNR-01-07	94139402	1.5	< 2	13.5	< 0.5	12	94	29	2.91	1.81	1.00	445	< 1	0.79	25
FNR-01-12	94139402	3.0	< 2	13.0	< 0.5	17	88	54	3.58	2.50	1.15	530	< 1	1.05	36
WRTR-01-05	94139402	1.0	56	0.13	69.5	38	143	450	8.91	2.30	0.30	170	4	0.11	54
WRTR-01-06	94139402	2.0	< 2	3.1	< 0.5	17	117	150	4.20	4.21	2.68	1065	26	0.12	46
WRTR-01-08	94139402	1.0	< 2	0.55	< 0.5	10	225	55	3.03	1.22	0.89	315	9	1.12	42

CERTIFICATION:

*Leo Lindinger*



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Aurora Laboratory Services Ltd.  
Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

Project: ADAMS  
Comments: ATTN: LEO LINDINGER

Page No. : 1-E  
Total Pages : 1  
Certificate Date: 10-AUG-2001  
Invoice No. : 10121305  
P.O. Number :  
Account : RJH

## CERTIFICATE OF ANALYSIS

A0121305

SAMPLE	PREP CODE	P ppm (ICP)	Pb ppm (ICP)	S % (ICP)	Sb ppm (ICP)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)				
PKR-01-01	94139402	180	26	0.03	< 5	94	0.09	14	< 10	98				
PKR-01-02	94139402	410	48	< 0.01	< 5	198	0.08	12	< 10	28				
PKR-01-04	94139402	250	24	0.02	< 5	106	0.15	32	< 10	46				
PKR-01-07	94139402	130	50	0.01	< 5	52	0.01	2	< 10	30				
PKR-01-08	94139402	320	38	0.01	< 5	72	0.06	19	< 10	98				
FNR-01-13	94139402	210	44	0.21	5	291	0.05	1	< 10	18				
WRTR-01-04	94139402	1880	56	2.98	< 5	647	0.14	15	< 10	104				
OLR-01-02	94139402	640	26	0.84	< 5	137	0.30	111	< 10	58				
OLR-01-04	94139402	550	24	1.08	< 5	114	0.34	115	< 10	74				
EL.3.2	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----				
EL.3.21	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----				
OLR-01-01	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----				
OLR-01-03	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----				
AR-01-200	94139402	240	118	0.52	< 5	345	0.26	47	< 10	238				
FNN-01-01	94139402	3400	20	3.46	5	69	0.18	250	< 10	250				
FNR-01-02	94139402	110	26	2.42	5	93	0.09	18	< 10	36				
FNN-01-03	94139402	4030	10	1.45	10	13	0.16	186	< 10	48				
FNN-01-04	94139402	1300	40	2.12	< 5	304	1.22	270	< 10	146				
FNR-01-06	94139402	230	24	0.05	< 5	1340	0.34	62	< 10	82				
FNR-01-07	94139402	590	24	0.03	< 5	1200	0.43	68	< 10	52				
FNR-01-12	94139402	320	20	0.09	5	2080	0.34	61	< 10	72				
WRTR-01-05	94139402	350	7134	8.59	< 5	44	0.15	60	< 10	>10000				
WRTR-01-06	94139402	370	48	3.11	15	115	0.31	565	< 10	74				
WRTR-01-08	94139402	420	222	0.62	5	118	0.18	247	< 10	112				

CERTIFICATION:

*Leo Lindinger*



# ALS Chemex

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## RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

A0121307

Comments: ATTN: LEO LINDINGER

### CERTIFICATE

A0121307

(RJH) - RENAISSANCE GEOSCIENCE SERVICES

Project: ADAMS  
P.O. #:

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 07-AUG-2001.

### SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
FUL-31	4	Pulv. <250g to >85%/-75 micron
STO-21	4	Reject Storage-First 90 Days
LOG-22	4	Samples received without barcode
CRU-31	4	Crush to 70% minus 2mm
299	4	Pulp; prepped on other workorder
3285	3	ICP-587 Tri Acid Dig'n Charge

### ANALYTICAL PROCEDURES 1 of 3

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
1433	4	Weight of received sample	BALANCE	0.01	1000.0
Ag-ICP61	3	Ag ppm:Tri Acid Dig. ICP Package	ICP-AES	0.5	100
Al-ICP61	3	Al %:Tri Acid Dig. ICP Package	ICP-AES	0.01	25.00
As-ICP61	3	As ppm:Tri Acid Dig. ICP Package	ICP-AES	5	10000
Ba-ICP61	3	Ba ppm:Tri Acid Dig. ICP Package	ICP-AES	10	10000
Be-ICP61	3	Be ppm:Tri Acid Dig. ICP Package	ICP-AES	0.5	1000
Bi-ICP61	3	Bi ppm:Tri Acid Dig. ICP Package	ICP-AES	2	10000
Ca-ICP61	3	Ca %: Tri Acid Dig. ICP Package	ICP-AES	0.01	25
Cd-ICP61	3	Cd ppm:Tri Acid Dig. ICP Package	ICP-AES	0.5	500
Co-ICP61	3	Co ppm:Tri Acid Dig. ICP Package	ICP-AES	1	10000
Cr-ICP61	3	Cr ppm:Tri Acid Dig. ICP Package	ICP-AES	1	10000
Cu-ICP61	3	Cu ppm:Tri Acid Dig. ICP Package	ICP-AES	1	10000
Fe-ICP61	3	Fe %:Tri Acid Dig. ICP Package	ICP-AES	0.01	25.00
K-ICP61	3	K %:Tri Acid Dig. ICP Package	ICP-AES	0.01	10.00
Mg-ICP61	3	Mg %:Tri Acid Dig. ICP Package	ICP-AES	0.01	15.00
Mn-ICP61	3	Mn ppm:Tri Acid Dig. ICP Package	ICP-AES	5	10000
Mo-ICP61	3	Mo ppm:Tri Acid Dig. ICP Package	ICP-AES	1	10000
Na-ICP61	3	Na %:Tri Acid Dig. ICP Package	ICP-AES	0.01	10.00
Ni-ICP61	3	Ni ppm:Tri Acid Dig. ICP Package	ICP-AES	1	10000
P-ICP61	3	P ppm:Tri Acid Dig. ICP Package	ICP-AES	10	10000
Pb-ICP61	3	Pb ppm:Tri Acid Dig. ICP Package	ICP-AES	2	10000
S-ICP61	3	S %:Tri Acid Dig. ICP Package	ICP-AES	0.01	10.00
Sb-ICP61	3	Sb ppm:Tri Acid Dig. ICP Package	ICP-AES	5	10000
Sr-ICP61	3	Sr ppm:Tri Acid Dig. ICP Package	ICP-AES	1	10000
Ti-ICP61	3	Ti %:Tri Acid Dig. ICP Package	ICP-AES	0.01	10.00
V-ICP61	3	V ppm: Tri Acid Dig. ICP Package	ICP-AES	1	10000
W-ICP61	3	W ppm: Tri Acid Dig. ICP Package	ICP-AES	10	10000
Zn-ICP61	3	Zn ppm:Tri Acid Dig. ICP Package	ICP-AES	2	10000
Ag-MS61	1	Ag ppm: ICP + ICP-MS package	ICP-MS/ICP	0.02	100.0
Al-MS61	1	Al %: ICP + ICP-MS package	ICP	0.01	25.0
As-MS61	1	As ppm: ICP + ICP-MS package	ICP-MS/ICP	0.2	10000
Ba-MS61	1	Ba ppm: ICP + ICP-MS package	ICP	0.5	10000
Be-MS61	1	Be ppm: ICP + ICP-MS package	ICP-MS/ICP	0.05	1000
Bi-MS61	1	Bi ppm: ICP + ICP-MS package	ICP-MS/ICP	0.01	10000



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## RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

A0121307

Comments: ATTN: LEO LINDINGER

### CERTIFICATE

A0121307

(RJH) - RENAISSANCE GEOSCIENCE SERVICES

Project: ADAMS  
P.O. #:

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 07-AUG-2001.

### SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
PUL-31	4	Pulv. <250g to >85%/-75 micron
STO-21	4	Reject Storage-First 90 Days
LOG-22	4	Samples received without barcode
CRU-31	4	Crush to 70% minus 2mm
299	4	Pulp; prepped on other workorder
3285	3	ICP-587 Tri Acid Dig'n Charge

### ANALYTICAL PROCEDURES 2 of 3

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Ca-MS61	1	Ca %: ICP + ICP-MS package	ICP	0.01	25.0
Cd-MS61	1	Cd ppm: ICP + ICP-MS package	ICP-MS/ICP	0.02	500
Ce-MS61	1	Ce ppm: ICP + ICP-MS package	ICP-MS	0.01	500
Co-MS61	1	Co ppm: ICP + ICP-MS package	ICP-MS/ICP	0.1	10000
Cr-MS61	1	Cr ppm: ICP + ICP-MS package	ICP	1	10000
Cs-MS61	1	Cs ppm: ICP + ICP-MS package	ICP-MS	0.05	500
Cu-MS61	1	Cu ppm: ICP + ICP-MS package	ICP	0.2	10000
Fe-MS61	1	Fe %: ICP + ICP-MS package	ICP	0.01	25.0
Ga-MS61	1	Ga ppm: ICP + ICP-MS package	ICP-MS	0.05	500.0
Ge-MS61	1	Ge ppm: ICP + ICP-MS package	ICP-MS	0.05	500.0
Hf-MS61	1	Hf ppm: ICP + ICP-MS package	ICP-MS/ICP	0.1	500
In-MS61	1	In ppm: ICP + ICP-MS package	ICP-MS/ICP	0.005	500
K-MS61	1	K %: ICP + ICP-MS package	ICP	0.01	10.00
La-MS61	1	La ppm: ICP + ICP-MS package	ICP-MS	0.5	500
Li-MS61	1	Li ppm: ICP + ICP-MS package	ICP-MS	0.2	500
Mg-MS61	1	Mg %: ICP + ICP-MS package	ICP	0.01	15.00
Mn-MS61	1	Mn ppm: ICP + ICP-MS package	ICP	5	10000
Mo-MS61	1	Mo ppm: ICP + ICP-MS package	ICP	0.05	10000
Na-MS61	1	Na %: ICP + ICP-MS package	ICP	0.01	10.00
Nb-MS61	1	Nb ppm: ICP + ICP-MS package	ICP-MS	0.1	500
Ni-MS61	1	Ni ppm: ICP + ICP-MS package	ICP-MS/ICP	0.2	10000
P-MS61	1	P ppm: ICP + ICP-MS package	ICP	10	10000
Pb-MS61	1	Pb ppm: ICP + ICP-MS package	ICP-MS/ICP	0.5	10000
Rb-MS61	1	Rb ppm: ICP + ICP-MS package	ICP-MS	0.1	500
Re-MS61	1	Re ppm: ICP + ICP-MS package	ICP-MS/ICP	0.002	50.0
S-MS61	1	S %: ICP + ICP-MS package	ICP-MS/ICP	0.01	10.00
Sb-MS61	1	Sb ppm: ICP + ICP-MS package	ICP-MS	0.05	1000.0
Se-MS61	1	Se ppm: ICP + ICP-MS package	ICP-MS/ICP	1	1000
Sn-MS61	1	Sn ppm: ICP + ICP-MS package	ICP-MS/ICP	0.2	500
Sr-MS61	1	Sr ppm: ICP + ICP-MS package	ICP-MS/ICP	0.2	10000
Ta-MS61	1	Ta ppm: ICP + ICP-MS package	ICP-MS	0.05	100.0
Te-MS61	1	Te ppm: ICP + ICP-MS package	ICP-MS	0.05	500
Th-MS61	1	Th ppm: ICP + ICP-MS package	ICP-MS	0.2	500
Ti-MS61	1	Ti %: ICP + ICP-MS package	ICP	0.01	10.00
Tl-MS61	1	Tl ppm: ICP + ICP-MS package	ICP-MS	0.02	500
U-MS61	1	U ppm: ICP + ICP-MS package	ICP-MS	0.1	500
V-MS61	1	V ppm: ICP + ICP-MS package	ICP	1	10000
W-MS61	1	W ppm: ICP + ICP-MS package	ICP-MS/ICP	0.1	10000
Y-MS61	1	Y ppm: ICP + ICP-MS package	ICP-MS	0.1	500
Zn-MS61	1	Zn ppm: ICP + ICP-MS package	ICP	2	10000





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RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE

KAMLOOPS, BC

V2B 7X8

Project: ADAMS

Comments: ATTN: LEO LINDINGER

Page Number: 1-A

Total Pages: 1

Certificate Date: 07-AUG-2001

Invoice No.: I0121307

P.O. Number:

Account: RJH

## CERTIFICATE OF ANALYSIS

A0121307

SAMPLE	PREP CODE	Weight	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
		Kg	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
FNR-01-15	94139402	0.40	< 0.5	7.22	< 5	90	2.5	68	6.3	1.0	35	68	161	7.55	0.57	2.35	1505	4	1.88	49
FNR-01-16	94139402	0.80	0.5	7.31	5	60	5.0	292	6.5	0.5	27	74	300	4.63	0.10	1.49	1260	4	2.67	17
FNR-01-17	94139402	0.44	0.5	6.79	5	60	4.5	330	4.2	1.5	69	82	526	6.87	0.19	0.87	670	3	2.24	33
OLR-01-06	94139402	1.34	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

CERTIFICATION:



# ALS Chemex

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212 Brooksbank Ave., North Vancouver  
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RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

Project: ADAMS  
Comments: ATTN: LEO LINDINGER

Page No: 1-B  
Total Pages: 1  
Certificate Date: 07-AUG-2001  
Invoice No.: I0121307  
P.O. Number:  
Account: RJH

## CERTIFICATE OF ANALYSIS

A0121307

SAMPLE	PREP CODE	P ppm (ICP)	Pb ppm (ICP)	S % (ICP)	Sb ppm (ICP)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)	Ag ppm (ICP)	Al % (ICP)	As ppm (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Ce ppm (ICP)	Co ppm (ICP)
FNR-01-15	94139402	1160	42	2.38	5	379	1.02	204	4060	206	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FNR-01-16	94139402	1320	20	2.99	< 5	460	0.25	52	40	106	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FNR-01-17	94139402	800	8	5.30	15	400	0.22	33	< 10	120	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
DLR-01-06	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.20	3.60	3.0	11.0	0.50	0.90	1.71	0.62	12.45	105.8

CERTIFICATION:



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RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

A0121307

Comments: ATTN: LEO LINDINGER

## CERTIFICATE

A0121307

(RJH) - RENAISSANCE GEOSCIENCE SERVICES

Project: ADAMS  
P.O. #:

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 07-AUG-2001.

## SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
FUL-31	4	Pulv. <250g to >85%/-75 micron
STO-21	4	Reject Storage-First 90 Days
LOG-22	4	Samples received without barcode
CRU-31	4	Crush to 70% minus 2mm
299	4	Pulp; prepped on other workorder
3285	3	ICP-587 Tri Acid Dig'n Charge

## ANALYTICAL PROCEDURES 3 of 3

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Zr-MS61	1	Zr ppm: ICP + ICP-MS package	ICP-MS/ICP	0.5	500



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RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

A0122051

Comments: ATTN: LEO LINDINGER

## CERTIFICATE

A0122051

(RJH) - RENAISSANCE GEOSCIENCE SERVICES

Project: 029  
P.O. #:

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 16-AUG-2001.

## SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
244	4	Pulp; prev. prepared at Chemex

## ANALYTICAL PROCEDURES

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
Au-MS21	3	Au ppm: Fuse 30 gram-ICPMS fin.	FA-ICPMS	0.001	2.00
Au-MS23	1	Au ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	1	1000
Pt-MS23	1	Pt ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	0.5	1000
Pd-MS23	1	Pd ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	1	1000



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RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE

KAMLOOPS, BC

V2B 7X8

Project: 029

Comments: ATTN: LEO LINDINGER

Page Number: 1

Total Pages: 1

Certificate Date: 16-AUG-2001

Invoice No.: I0122051

P.O. Number:

Account: RJH

## CERTIFICATE OF ANALYSIS

A0122051

SAMPLE	PREP CODE	Au ppm ICP-MS	Au ppb ICP-MS	Pt ppb ICP-MS	Pd ppb ICP-MS						
FNR-01-15	244 --	39.0	-----	-----	-----						
FNR-01-16	244 --	101.0	-----	-----	-----						
FNR-01-17	244 --	120.0	-----	-----	-----						
AR 98	244 --	-----	< 1	2.0	1						

CERTIFICATION:

RERUNS from A0118449



# ALS Chemex

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Analytical Chemists \* Geochemists \* Registered Assayers  
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RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

A0123209

Comments: ATTN: LEO LINDINGER

## CERTIFICATE

A0123209

(RJH) - RENAISSANCE GEOSCIENCE SERVICES

Project: FINN-15H  
P.O. #:

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 03-SEP-2001.

## SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
PUL-31	14	Pulv. <250g to >85%/-75 micron
STO-21	14	Reject Storage-First 90 Days
LOG-22	14	Samples received without barcode
CRU-31	14	Crush to 70% minus 2mm
SPL-21	14	Splitting Charge
WSH-21	2	Clean rock 'wash' in crusher
WSH-22	2	Silica 'wash' in pulverizer
3285	14	ICP-587 Tri Acid Dig'n Charge

## ANALYTICAL PROCEDURES

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
WEI-21	14	Weight of received sample	BALANCE	0.01	1000.0
Au-MS21	2	Au ppb: Fuse 30g - ICPMS Finish	FA-ICPMS	1	2000
Ag-ICP61	14	Ag ppm:Tri Acid Dig. ICP Package	ICP-AES	0.5	100
Al-ICP61	14	Al %:Tri Acid Dig. ICP Package	ICP-AES	0.01	25.00
As-ICP61	14	As ppm:Tri Acid Dig. ICP Package	ICP-AES	5	10000
Ba-ICP61	14	Ba ppm:Tri Acid Dig. ICP Package	ICP-AES	10	10000
Be-ICP61	14	Be ppm:Tri Acid Dig. ICP Package	ICP-AES	0.5	1000
Bi-ICP61	14	Bi ppm:Tri Acid Dig. ICP Package	ICP-AES	2	10000
Ca-ICP61	14	Ca %: Tri Acid Dig. ICP Package	ICP-AES	0.01	25
Cd-ICP61	14	Cd ppm:Tri Acid Dig. ICP Package	ICP-AES	0.5	500
Co-ICP61	14	Co ppm:Tri Acid Dig. ICP Package	ICP-AES	1	10000
Cr-ICP61	14	Cr ppm:Tri Acid Dig. ICP Package	ICP-AES	1	10000
Cu-ICP61	14	Cu ppm:Tri Acid Dig. ICP Package	ICP-AES	1	10000
Fe-ICP61	14	Fe %:Tri Acid Dig. ICP Package	ICP-AES	0.01	25.00
K-ICP61	14	K %:Tri Acid Dig. ICP Package	ICP-AES	0.01	10.00
Mg-ICP61	14	Mg %:Tri Acid Dig. ICP Package	ICP-AES	0.01	15.00
Mn-ICP61	14	Mn ppm:Tri Acid Dig. ICP Package	ICP-AES	5	10000
Mo-ICP61	14	Mo ppm:Tri Acid Dig. ICP Package	ICP-AES	1	10000
Na-ICP61	14	Na %:Tri Acid Dig. ICP Package	ICP-AES	0.01	10.00
Ni-ICP61	14	Ni ppm:Tri Acid Dig. ICP Package	ICP-AES	1	10000
P-ICP61	14	P ppm:Tri Acid Dig. ICP Package	ICP-AES	10	10000
Pb-ICP61	14	Pb ppm:Tri Acid Dig. ICP Package	ICP-AES	2	10000
S-ICP61	14	S %:Tri Acid Dig. ICP Package	ICP-AES	0.01	10.00
Sb-ICP61	14	Sb ppm:Tri Acid Dig. ICP Package	ICP-AES	5	10000
Sr-ICP61	14	Sr ppm:Tri Acid Dig. ICP Package	ICP-AES	1	10000
Ti-ICP61	14	Ti %:Tri Acid Dig. ICP Package	ICP-AES	0.01	10.00
V-ICP61	14	V ppm: Tri Acid Dig. ICP Package	ICP-AES	1	10000
W-ICP61	14	W ppm: Tri Acid Dig. ICP Package	ICP-AES	10	10000
Zn-ICP61	14	Zn ppm:Tri Acid Dig. ICP Package	ICP-AES	2	10000



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RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

Project: FINN-15H  
Comments: ATTN: LEO LINDINGER

Page Number: 1-A  
Total Pages: 1  
Certificate Date: 03-SEP-2001  
Invoice No.: I0123209  
P.O. Number:  
Account: RJH

## CERTIFICATE OF ANALYSIS

A0123209

SAMPLE	PREP CODE	Weight Kg	Au ppb ICP-MS	Ag ppm (ICP)	Al % (ICP)	As ppm (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)
FNR-01-19	94139402	0.42	-----	< 0.5	8.31	5	130	2.0	10	5.9	< 0.5	26	127	92	3.96	0.32	0.68	510	< 1	2.38
FNR-01-21	94139402	0.36	-----	< 0.5	8.81	5	810	1.0	< 2	5.2	< 0.5	18	177	83	3.29	4.41	1.04	265	< 1	1.62
FNR-01-23	94139402	0.40	-----	< 0.5	5.73	< 5	60	2.5	24	6.9	< 0.5	15	132	78	5.94	0.20	1.34	2030	< 1	1.49
FNR-01-24	94139402	0.46	-----	< 0.5	8.56	5	310	3.0	< 2	4.6	< 0.5	25	82	105	5.19	1.82	1.47	1065	< 1	2.61
FNR-01-25	94139402	0.58	-----	< 0.5	6.70	< 5	90	1.5	< 2	6.5	< 0.5	32	83	173	5.65	0.65	1.76	1235	< 1	1.72
FNR-01-26	94139402	0.58	-----	< 0.5	7.62	< 5	70	2.5	4	8.1	< 0.5	38	97	313	3.84	0.35	1.48	1015	< 1	2.22
FNR-01-27	94139402	0.46	-----	< 0.5	10.95	5	900	< 0.5	6	0.50	< 0.5	14	150	46	5.01	5.08	1.37	560	< 1	1.63
FNR-01-28	94139402	0.30	-----	< 0.5	7.20	5	90	2.0	< 2	5.9	< 0.5	26	91	154	4.17	1.53	0.91	1095	< 1	2.21
FNR-01-29	94139402	0.48	-----	< 0.5	6.63	5	130	2.5	14	6.0	< 0.5	30	112	72	5.25	0.52	1.87	1430	< 1	2.24
FNR-01-30	94139402	0.54	-----	< 0.5	8.59	5	560	2.0	2	2.6	< 0.5	12	72	52	2.83	1.98	0.96	530	< 1	2.96
FNR-01-31	94139402	0.66	-----	< 0.5	9.65	5	70	3.0	30	4.7	< 0.5	11	70	107	2.09	0.23	0.33	275	< 1	3.91
FNR-01-32	94139402	0.70	99	0.5	3.62	< 5	30	2.5	226	10.5	0.5	35	55	265	8.91	0.16	2.89	3170	8	1.03
FNR-01-33	94139402	0.66	220	< 0.5	1.46	< 5	40	2.0	438	10.0	< 0.5	48	56	380	12.34	0.12	3.35	3920	4	0.39
FNR-01-34	94139402	1.02	-----	< 0.5	7.24	< 5	110	4.5	8	7.2	< 0.5	34	86	175	5.56	0.45	2.12	1270	< 1	2.02

CERTIFICATION:



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Analytical Chemists \* Geochemists \* Registered Assayers

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RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE

KAMLOOPS, BC

V2B 7X8

Project : FINN-15H

Comments: ATTN: LEO LINDINGER

Page Number : 1-B

Total Pages : 1

Certificate Date: 03-SEP-2001

Invoice No. : I0123209

P.O. Number :

Account : RJH

## CERTIFICATE OF ANALYSIS

A0123209

SAMPLE	PREP CODE	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	S % (ICP)	Sb ppm (ICP)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
FNR-01-19	94139402	24	1010	6	0.75	< 5	1045	0.22	42	< 10	82
FNR-01-21	94139402	36	580	24	0.43	< 5	1055	0.68	144	10	60
FNR-01-23	94139402	20	820	2	0.92	< 5	386	0.85	98	< 10	148
FNR-01-24	94139402	42	900	8	0.92	< 5	579	0.79	109	10	112
FNR-01-25	94139402	29	1780	2	0.72	< 5	504	1.38	196	< 10	140
FNR-01-26	94139402	58	550	6	1.60	< 5	833	1.11	113	< 10	114
FNR-01-27	94139402	34	270	14	0.35	< 5	188	0.56	160	10	92
FNR-01-28	94139402	47	1070	6	1.33	< 5	540	0.91	126	< 10	118
FNR-01-29	94139402	36	1080	4	0.72	< 5	357	1.04	158	10	146
FNR-01-30	94139402	29	380	18	0.79	< 5	386	0.32	77	10	96
FNR-01-31	94139402	8	1900	12	0.35	< 5	590	0.17	20	10	58
FNR-01-32	94139402	59	850	< 2	4.18	< 5	191	0.26	97	520	162
FNR-01-33	94139402	88	570	< 2	5.54	< 5	81	0.14	114	820	186
FNR-01-34	94139402	39	1270	10	0.94	< 5	406	1.22	186	60	128

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Project: ADAMS

Comments: ATTN: LEO LINDINGER

Page Number: 1-C

Total Pages: 1

Certificate Date: 07-AUG-2001

Invoice No.: I0121307

P.O. Number:

Account: RJH

## CERTIFICATE OF ANALYSIS

A0121307

SAMPLE	PREP CODE	Cr ppm (ICP)	Cs ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	Ga ppm (ICP)	Ge ppm (ICP)	Hf ppm	In ppm	K % (ICP)	La ppm (ICP)	Li ppm (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Nb ppm (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)
FNR-01-15	94139402	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
FNR-01-16	94139402	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
FNR-01-17	94139402	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
OLR-01-06	94139402	2540	0.40	121.5	6.96	9.05	0.20	0.4	0.065	0.06	6.5	3.0	16.00	1000	0.70	0.13	4.2	852	162	9.5

CERTIFICATION:

*Leo Lindinger*



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RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

Project : ADAMS  
Comments: ATTN: LEO LINDINGER

Page No. : 1-D  
Total Pages : 1  
Certificate Date: 07-AUG-2001  
Invoice No. : 10121307  
P.O. Number :  
Account : RJH

## CERTIFICATE OF ANALYSIS

A0121307

SAMPLE	PREP CODE	Rb ppm (ICP)	Re ppm	S Sb ppm % (ICP)	Se ppm	Sn Sr ppm ppm (ICP)	Ta ppm (ICP)	Te ppm (ICP)	Th ppm (ICP)	Ti % (ICP)	Tl ppm (ICP)	U ppm (ICP)	V ppm (ICP)	W ppm (ICP)	Y ppm (ICP)	Zn ppm (ICP)	Zr ppm		
FNR-01-15	94139402	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----		
FNR-01-16	94139402	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----		
FNR-01-17	94139402	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----		
OLR-01-06	94139402	3.4	< 0.002	0.30	7.05	< 1	0.8	22.0	0.30	0.05	1.8	0.22	0.06	0.6	118	1.3	5.5	130	5.5

CERTIFICATION:

## **APPENDIX II**

ISH PROPERTY ROCK DESCRIPTIONS			analyzed?					
SAMPLE No.	CLAIM	DESCRIPTION	y=yes,n=no	AU	Cu	ZN	PB	OTHER
EL 3.2	ISH 1	Grey medium grained feldspathic-graphitic-biotite gneiss. 5% very fine grained iron sulphides disseminated with mafic minerals.	Y	na	23	92	tr	V 55
EL 3.21	ISH 1	Grey massive cryptocrystalline chert. Appears to be exhalative. 2% very finely disseminated black sulphides.	Y	na	4	12	2	
FNR-01-00 1	ISH 3	Rusty weathering pale grey vitreous siliceous sulphidic intrusive? or skarn 35% quartz 10% plagioclase, 30% mafics, 10% interstitial pyrrhotite.	Y	na	300	250	20	Ni 59
FNR-01-00 2	ISH 3	Banded quartz (chert?), plag-biotite gneiss. siliceous bands are inter laminated with semimassive tectonized pyrrhotite +/- chalcopryrite sulphide laminations and zones. 6% sulphide content. has similarities to Navan "exhalite".	Y	na	245	36	26	Ni 110
FNR-01-00 3	ISH 1	Dark grey siliceous sulphidic vesuvianite chlorite-muscovite garnet gneissic skarn. 10% very fine grained sulphides throughout.	Y	na	235	48	10	
FNR-01-00 4	ISH 1	Rusty weathering pale grey vitreous siliceous sulphidic intrusive? or skarn 35% quartz 10% plagioclase, 30% mafics, 10% interstitial pyrrhotite.	Y	na	168	146	40	Ni 73
FNR-01-00 5	ISH 1	Tan banded tectonized carbonate. Exotic fragments throughout.	N					
FNR-01-00 6	ISH 1	Green and white banded fine to medium grained calc-silicate rock. interbanded with amphibolite rich calc-silicate. Possible 1% very fine grained disseminated sulphides.	Y	na	18	82	24	
FNR-01-00 7	ISH 1	Tan banded calc silicate rock. 25% grey very fine grained irregularly shaped masses of quartz. Possible very finely disseminated sulphides throughout.	Y	na	29	52	24	
FNR-01-0 11	ISH 4	Buff garnet(30%), white carbonate(50%), green vesuvianite(15%) skarn. Crudely banded medium grained crystalline texture. Possible trace sulphides.	Y	na	54	72	20	
FNR-01-0 12	ISH 4	White plagioclase-carbonate and 15% irregular grey quartz-sulphide stringers and masses pegmatitic appearing rock. 2% total sulphide content.	Y	na	79	18	55	As 20
FNR-01-0 13	ISH 4	Float sample. Rusty weathering pale grey vitreous siliceous sulphidic intrusive? or skarn. 60% quartz 20% carbonate? 10% plagioclase, 5% mafics, 5% interstitial pyrrhotite.	N					
FNR-01-0 14	ISH 4	Pale white recrystallized chert and dark grey very fine grained weakly foliated amphibole, feldspar rock. 1-2% very fine grained pyrrhotite as disseminations in amphibole rock and as 0-1 mm thick stringers in "chert".	Y		0			
FNR-01-0 15	ISH 4	Pale white very fine grained quartz (meta-chert?) in contact with dark and pale mottled sulphidic quartz-amphibole skarn or vein. Skarn is 65% quartz, 10% calcite?, 5% mafic minerals and 10% very fine grained pyrrhotite. Pyrrhotite is highly reactive.	Y	39	161	206	42	Bi 68 V 204 W 4060
FNR-01-0 16	ISH 4	Pale white very fine grained quartz (meta-chert?) in intruded by dark and pale mottled sulphidic quartz veining. Possible durzgebawang texture Rock is 65% quartz, 5% calcite?, 10% mafic minerals and 15% very fine grained pyrrhotite.	Y	101	300	106	20	Bi 292 V 52 W 40
FNR-01-0 17	ISH 4	Buff weathering fine grained siliceous marble. Banded on weathered surface. highly tectonized with sulphidic silicate and calc-silicate fragments throughout.	Y	120	526	120	8	Bi 330 Sb 15
FNR-01-0 18	ISH 6	Grey vitreous very fine grained crudely banded quartz or recrystallized chert with up to 7 mm lensoid feldspathic segregations. In contact with fine grained garnet-amphibole-plagioclase-calcite-pyrrhotite skarn.	Y		92	82	6	

Sheet1

FNR-01-0	19	ISH 6	Grey vitreous very fine grained crudely banded quartz or recrystallized chert with up to 7 mm lensoid feldspathic segregations. In contact with dark bronze graphitic biotite schist. Trace iron sulphides in late fractures.	N						
FNR-01-0	20	ISH 6	Rusty weathering pale grey vitreous siliceous sulphidic intrusive? 85% quartz 10% plagioclase, 3% mafics, 2% interstitial pyrrhotite.	Y		83	60	24		
FNR-01-0	21	ISH 6	Banded calc-silicate gneiss. 2 to 4 mm laminations of pale siliceous and dark biotite-amphibole. crosscut by late green is chlorite-calc-silicate filled fractures.	N						
FNR-01-0	22	ISH 6	Rusty weathering interzoned chert and dark fine grained felted textured calc?-silicate rock. 70% mafic minerals, 25% feldspars with the remainder interstitial very fine grained iron sulphides and quartz. Gypsum in fractures.	Y		78	148	2	Bi 24	
FNR-01-0	23	ISH 6	Fine grained diorite appearing rock. Weak fabric, 60% quartz, 30% plagioclase, 8% bronze biotite or phlogopite, 2% interstitial pyrrhotite.	Y		105	112	8		
FNR-01-0	24	ISH 6	Rusty weathering dark fine grained felted textured calc?-silicate rock. 70% mafic minerals, 25% feldspars with the remainder interstitial very fine grained iron sulphides and quartz.	Y		173	140	2		
FNR-01-0	25	ISH 6	Rusty weathering coarsely banded siliceous gneiss with pegmatite or siliceous segregation. 30% quartz, 50% plag, 15% chloritized mafics and 5% disseminated pyrrhotite.	Y		313	114	6		
FNR-01-0	26	ISH 6	Brown weathering shiny medium grained muscovite-bronzite-amphibolite gneiss. With late siliceous banded segregations.	Y		46	92	14		
FNR-01-0	27	ISH 6	Rusty brown weathering pale mottled siliceous sulphidic gneiss. rock 70% quartz, 25% plagioclase and 5% very dark very fine grained iron sulphides.	Y		154	118	6		
FNR-01-0	28	ISH 4	Rusty weathering dark fine grained felted textured calc?-silicate rock. 70% mafic minerals, 25% feldspars with the remainder interstitial very fine grained iron sulphides and quartz.	Y		72	146	4	Bi 14	
FNR-01-0	29	ISH 4	Pale and dark banded very fine grained rock. siliceous bands appear to be recrystallized chert. Dark bands are siliceous-graphitic +/- sulphidic rock.	Y		52	96	18		
FNR-01-0	30	ISH 4	Rusty weathering pale grey vitreous siliceous sulphidic intrusive? 85-90% quartz and 10-15% interstitial pyrrhotite.	Y		107	58	12		
FNR-01-0	31	ISH 4	Rusty weathering pale grey vitreous siliceous sulphidic breccia and intrusive? (endoskarn?) 60% quartz, 20% carbonate (on analyses), minor mafics, and 15% interstitial pyrrhotite.	Y	99	265	162	tr	Bi 226 W 520 Ni 59 Mo 8	
FNR-01-0	32	ISH 4	Rusty weathering pale grey vitreous siliceous sulphidic intrusive (endoskarn?) 50% quartz, 10% feldspar, 20% carbonate (on analyses) and 20% interstitial pyrrhotite.	Y	220	380	186	tr	Bi 438 W 820 Ni 88 Mo 4	
FNR-01-0	33	ISH 4	Dark grey green medium grained amphibolite, mottled amphibolite-garnet skarn gneiss with white coarse grained plagioclase and quartz segregations or pegmatite, skarn contains 3% fine grained sulphides.	Y		175	128	10	Bi 8, W 60	
FNR-01-0	34	OPEN	Brown weathering shiny medium grained muscovite-bronzite-amphibolite gneiss. With late siliceous banded segregations.	N						



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To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

Project: UPPER ADAMS  
Comments: ATTN: LEO LINDINGER

Page Number : 1  
Total Pages : 1  
Certificate Date: 01-NOV-2001  
Invoice No. : 10127609  
P.O. Number :  
Account : RJH

## CERTIFICATE OF ANALYSIS

A0127609

SAMPLE	PREP CODE	Ag g/t	Pb %								
ZN-01-02	212 --	-----	1.64								
ZN-01-03	212 --	490	16.45								
<p>APPENDIX 3 ANALYTICAL RESULTS</p>											

CERTIFICATION:



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KAMLOOPS, BC  
V2B 7X8

Project: UPPER ADAMS  
Comments: ATTN: LEO LINDINGER

Page Number : 1-A  
Total Pages : 1  
Certificate Date: 29-OCT-2001  
Invoice No. : I0126910  
P.O. Number :  
Account : RJH

## CERTIFICATE OF ANALYSIS

A0126910

SAMPLE	PREP CODE	Ag ppm (ICP)	Al % (ICP)	As ppm (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
R10-01-21	2993285	0.5	0.45	5	30	< 0.5	22	2.3	< 0.5	49	227	865	20.22	0.24	0.45
R10-01-23	2993285	4.0	1.56	30	120	< 0.5	< 2	4.1	< 0.5	234	41	3800	>25.00	0.31	1.11
R10-01-29	2993285	0.5	3.27	15	60	2.0	2	2.3	< 0.5	67	47	1990	>25.00	2.46	3.21
VAR-01-40	2993285	3.0	4.03	< 5	250	2.0	18	7.5	0.5	44	129	730	12.71	0.72	1.83

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V2B 7X8

Project: UPPER ADAMS

Comments: ATTN: LEO LINDINGER

Page Number :1-B

Total Pages :1

Certificate Date: 29-OCT-2001

Invoice No. :10126910

P.O. Number :

Account :RJH

## CERTIFICATE OF ANALYSIS

A0126910

SAMPLE	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	S % (ICP)	Sb ppm (ICP)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)	
R10-01-21	2993285	995	< 1	0.03	100	60	< 2	>10.00	< 5	36	0.03	11	< 10	28	
R10-01-23	2993285	440	58	0.09	617	440	2	>10.00	5	136	0.16	67	10	70	
R10-01-29	2993285	1080	4	0.22	54	350	6	>10.00	5	92	0.44	101	930	160	
VAR-01-40	2993285	1910	5	0.06	51	380	28	7.02	< 5	161	0.28	47	? 30	164	

CERTIFICATION:





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KAMLOOPS, BC

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Project: UPPER ADAMS

Comments: ATTN: LEO LINDINGER

Page Number :1-A

Total Pages :1

Certificate Date: 29-OCT-2001

Invoice No. :10126909

P.O. Number :

Account :RJH

\* PLEASE NOTE

## CERTIFICATE OF ANALYSIS

A0126909

SAMPLE	PREP CODE	Weight Kg	Au ppb ICP-MS	Zn %	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %
R10-01-17	94139402	0.72	2	-----	< 0.2	0.25	< 2	< 10	10	< 0.5	< 2	0.45	< 0.5	4	74	3	1.02	< 10	< 1	0.04
R10-01-19	94139402	0.84	< 1	-----	< 0.2	0.51	2	< 10	10	2.0	< 2	0.74	< 0.5	9	76	16	4.00	< 10	< 1	0.07
R10-01-20	94139402	0.46	< 1	-----	< 0.2	0.45	2	< 10	20	< 0.5	< 2	0.14	< 0.5	2	53	1	1.24	< 10	< 1	0.05
R10-01-21	94139402	0.22	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
R10-01-23	94139402	0.50	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
R10-01-27	94139402	0.70	2	-----	< 0.2	0.46	2	< 10	20	< 0.5	< 2	0.07	< 0.5	1	74	8	1.25	< 10	< 1	0.04
R10-01-28	94139402	0.68	< 1	-----	< 0.2	0.49	2	< 10	30	0.5	< 2	0.25	< 0.5	18	48	62	4.68	< 10	< 1	0.06
R10-01-29	94139402	0.58	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
R10-01-30	94139402	0.50	3	-----	0.2	2.30	4	< 10	20	1.5	< 2	0.21	< 0.5	9	40	148	6.16	< 10	< 1	0.08
ZN-01-01	94131316	2.38	-----	31.1	8.4	0.38	< 2	< 10	40	< 0.5	46	13.20	>500	7	3	33	1.72	10	34	0.21
ZN-01-02	94131316	0.50	-----	36.2	54.8	0.53	< 2	< 10	20	< 0.5	146	8.16	>500	20	8	86	4.71	10	7	0.40
ZN-01-03	94131316	0.38	-----	33.0	>100.0	0.58	10	< 10	20	< 0.5	1640	5.37	>500	7	3	20	3.07	10	4	0.43
VAR-01-40	94139402	0.72	7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

CERTIFICATION:

\* RECOMMEND TITRATION FOR Zn >20% FOR GREATER ACCURACY AND PRECISION.



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Account : RJH

\* PLEASE NOTE

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A0126909

SAMPLE	PREP CODE	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
R10-01-17	94139402	< 10	0.04	195	2	< 0.01	6	200	6	0.01	< 2	4	9	< 0.01	< 10	< 10	7	< 10	14
R10-01-19	94139402	10	0.70	795	1	0.01	26	580	10	0.11	< 2	8	32	< 0.01	< 10	< 10	52	< 10	74
R10-01-20	94139402	20	0.05	305	3	< 0.01	3	510	10	0.01	< 2	3	6	< 0.01	10	< 10	10	< 10	38
R10-01-21	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
R10-01-23	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
R10-01-27	94139402	< 10	< 0.01	20	1	< 0.01	4	310	14	0.03	< 2	< 1	6	< 0.01	< 10	< 10	3	< 10	18
R10-01-28	94139402	< 10	0.07	390	9	< 0.01	50	1190	12	0.57	< 2	9	50	< 0.01	< 10	< 10	47	< 10	50
R10-01-29	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
R10-01-30	94139402	10	2.23	170	12	< 0.01	16	520	16	1.68	< 2	5	14	< 0.01	< 10	< 10	20	< 10	32
ZN-01-01	94131316	< 10	0.61	2080	4	< 0.01	19	490	1705	6.48	46	< 1	494	0.01	< 10	< 10	1	< 10	>10000
ZN-01-02	94131316	< 10	1.04	2710	9	0.01	24	360	>10000	8.97	44	< 1	291	0.03	< 10	< 10	3	< 10	>10000
ZN-01-03	94131316	< 10	1.56	3300	11	0.01	9	560	>10000	>10.00	130	1	225	0.03	< 10	< 10	3	10	>10000
VAR-01-40	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

CERTIFICATION: 

\* RECOMMEND TITRATION FOR Zn >20% FOR GREATER ACCURACY AND PRECISION.



# ALS Chemex

Aurora Laboratory Services Ltd.  
Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

Project: UPPER ADAMS  
Comments: ATTN: LEO LINDINGER

Page Number : 1-A  
Total Pages : 1  
Certificate Date: 29-OCT-2001  
Invoice No. : I0126908  
P.O. Number :  
Account : RJH

## CERTIFICATE OF ANALYSIS

A0126908

SAMPLE	PREP CODE	Weight Kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
VNS-01-02	94069407	1.14	< 0.2	2.91	8	< 10	140	< 0.5	< 2	0.10	2.0	34	75	27	10.75	< 10	< 1	1.40	< 10	1.07
MM-ZN-01	94069407	0.18	< 0.2	2.42	6	< 10	240	1.0	< 2	1.12	1.0	14	20	17	3.07	< 10	< 1	0.24	80	0.50
MM-ZN-02	94069407	0.30	< 0.2	1.53	2	< 10	190	< 0.5	< 2	0.69	0.5	12	19	9	2.60	< 10	< 1	0.18	50	0.46

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To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

Project: UPPER ADAMS  
Comments: ATTN: LEO LINDINGER

Page Number :1-B  
Total Pages :1  
Certificate Date: 29-OCT-2001  
Invoice No. : I0126908  
P.O. Number :  
Account : RJH

## CERTIFICATE OF ANALYSIS

A0126908

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
VNS-01-02	94069407	1440	3	0.01	30	290	44	0.07	< 2	8	12	0.29	< 10	< 10	70	< 10	176
MM-ZN-01	94069407	3670	1	0.01	17	1690	64	0.09	< 2	3	83	0.09	20	< 10	48	< 10	286
MM-ZN-02	94069407	3120	1	0.01	11	2070	26	0.05	< 2	2	55	0.11	10	< 10	48	< 10	90

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To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

Project: UPPER ADAMS  
Comments: ATTN: LEO LINDINGER

Page Number : 1-A  
Total Pages : 1  
Certificate Date: 29-OCT-2001  
Invoice No. : 10126907  
P.O. Number :  
Account : RJH

## CERTIFICATE OF ANALYSIS

A0126907

SAMPLE	PREP CODE	Weight Kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
131376	94139402	0.38	1.2	0.14	< 2	< 10	< 10	0.5	< 2	9.02	14.5	76	1	576	>15.00	< 10	< 1	0.06	< 10	3.96
131377	94139402	0.12	1.8	0.25	10	< 10	< 10	0.5	< 2	1.12	< 0.5	81	70	161	>15.00	< 10	< 1	0.01	< 10	0.13
131378	94139402	0.32	24.0	0.74	2	< 10	30	1.0	48	1.86	37.0	26	31	176	>15.00	< 10	< 1	0.16	< 10	0.75
131379	94139402	0.32	6.8	1.51	2	< 10	30	0.5	12	3.85	3.0	10	47	139	9.40	< 10	< 1	0.54	< 10	1.45
131380	94139402	0.26	7.0	0.74	14	< 10	10	0.5	12	6.51	4.0	3	71	22	11.90	< 10	< 1	0.06	< 10	2.34
131381	94139402	0.38	0.2	2.09	8	< 10	40	< 0.5	< 2	1.63	< 0.5	8	59	25	3.23	< 10	< 1	0.78	< 10	1.36

CERTIFICATION: 



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To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

Project: UPPER ADAMS  
Comments: ATTN: LEO LINDINGER

Page Number : 1-B  
Total Pages : 1  
Certificate Date: 29-OCT-2001  
Invoice No. : 10126907  
P.O. Number :  
Account : RJH

## CERTIFICATE OF ANALYSIS

A0126907

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
131376	94139402	1925	7 < 0.01	263	210	96	5.34	< 2	< 1	498	< 0.01	< 10	< 10	11	< 10	1660	
131377	94139402	260	17 < 0.01	44	540	68	>10.00	< 2	< 1	35	0.06	< 10	< 10	7	< 10	238	
131378	94139402	1675	9 < 0.01	31	40	9250	7.12	< 2	1	53	0.01	< 10	< 10	4	< 10	6220	
131379	94139402	2800	7 < 0.01	22	190	1730	5.16	< 2	3	81	0.03	< 10	< 10	14	< 10	446	
131380	94139402	4540	43 < 0.01	6	80	878	>10.00	< 2	1	244	< 0.01	< 10	< 10	1	< 10	760	
131381	94139402	425	3	0.05	21	170	40	2.70	< 2	3	67	0.10	< 10	< 10	22	< 10	178

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To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE

KAMLOOPS, BC

V2B 7X8

Project: BH

Comments: ATTN: LEO LINDINGER

Page Number :1

Total Pages :1

Certificate Date: 04-OCT-2001

Invoice No. :10125965

P.O. Number

Account :RJH

## CERTIFICATE OF ANALYSIS

A0125965

SAMPLE	PREP CODE	Pb %	Zn %								
NAVAN 1 VISTA 3A	212 -- 212 --	1.92 -----	8.61 2.32								

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To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

Project: BIZAR  
Comments: ATTN: LEO LINDINGER

Page Number : 1-A  
Total Pages : 1  
Certificate Date: 08-OCT-2001  
Invoice No. : 10125599  
P.O. Number :  
Account : RJH

## CERTIFICATE OF ANALYSIS

A0125599

SAMPLE	PREP CODE		Weight Kg	Au Au ppb g/t ICP-MS	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %
BZR-01-01	266	267	0.48	0.04 -----	0.6	0.34	4	< 10	10	< 0.5	6	0.02	< 0.5	140	71	1060	6.59	< 10	< 1	0.08
BZR-01-03	266	267	1.18	----- 2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
BZR-01-08	266	267	1.52	----- < 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
BZR-01-09	266	267	0.62	----- 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
BZR-01-10	266	267	0.48	----- 4	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
GSR-01-01	266	267	0.78	----- < 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

CERTIFICATION:

*Leo Wankin*





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To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

Project: BIZAR  
Comments: ATTN: LEO LINDINGER

Page Number : 1-B  
Total Pages : 1  
Certificate Date: 08-OCT-2001  
Invoice No. : I0125599  
P.O. Number :  
Account : RJH

## CERTIFICATE OF ANALYSIS

A0125599

SAMPLE	PREP CODE		La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	F ppm
BZR-01-01	266	267	< 10	0.14	30	11	0.01	155	120	2	7.20	< 2	< 1	8	0.01	< 10	< 10	5	10	12	100
BZR-01-03	266	267	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BZR-01-08	266	267	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BZR-01-09	266	267	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
BZR-01-10	266	267	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
GSR-01-01	266	267	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

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To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

Project : BH  
Comments: ATTN: LEO LINDINGER

Page Number : 1-A  
Total Pages : 1  
Certificate Date: 02-OCT-2001  
Invoice No. : I0125597  
P.O. Number :  
Account : RJH

## CERTIFICATE OF ANALYSIS

A0125597

SAMPLE	PREP CODE	Weight Kg	Ag ppm (ICP)	Al % (ICP)	As ppm (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)
NAVAN 1	266 267	0.68	4.0	1.75	5	90	4.0	32	6.4	112.5	15	158	99	4.29	0.03
VISTA 3A	266 267	0.90	1.0	0.20	< 5	320	< 0.5	6	15.0	25.5	2	100	42	0.60	0.02
VISTA 3C	266 267	0.50	< 0.5	7.73	< 5	610	2.5	< 2	0.89	< 0.5	6	123	19	1.89	5.24
NANAN 2	266 267	0.88	< 0.5	8.45	5	3510	1.0	< 2	0.93	< 0.5	1	50	10	0.60	7.42

CERTIFICATION:



# ALS Chemex

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To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE

KAMLOOPS, BC

V2B 7X8

Project: BH

Comments: ATTN: LEO LINDINGER

Page Number :1-B

Total Pages :1

Certificate Date: 02-OCT-2001

Invoice No. :10125597

P.O. Number :

Account :RJH

## CERTIFICATE OF ANALYSIS

A0125597

SAMPLE	PREP CODE	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	S % (ICP)	Sb ppm (ICP)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
NAVAN 1	266 267	0.13	395	11	0.01	31	1190	>10000	4.85	20	90	0.15	42	< 10	>10000
VISTA 3A	266 267	0.11	35	5	< 0.01	6	460	6270	0.60	5	96	< 0.01	3	< 10	>10000
VISTA 3C	266 267	0.58	440	1	1.90	14	320	304	0.01	5	147	0.17	35	< 10	376
NANAN 2	266 267	0.17	80	4	1.89	1	110	474	< 0.01	5	447	0.07	8	< 10	192

CERTIFICATION: \_\_\_\_\_



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To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE

KAMLOOPS, BC

V2B 7X8

Project: UPPER ADAMS

Comments: ATTN: LEO LINDINGER

Page Number :1-A

Total Pages :1

Certificate Date: 26-OCT-2001

Invoice No. :10125594

P.O. Number :

Account :RJH

## CERTIFICATE OF ANALYSIS

A0125594

SAMPLE	PREP CODE	Weight Au ppb		Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La
		Kg	ICP-MS	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
UAR-PR-01-01	266 267	1.20	2	1.6	0.71	2	< 10	10	0.5	< 2	0.02	0.5	89	10	1085	14.95	10	< 1	0.14	< 10
UAR-H-01-01	266 267	1.16	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
HANK	266 267	1.22	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
UAR-A-01-01	266 267	2.74	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
UAR-0-01-01	266 267	0.28	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
UAR-0-01-03	266 267	0.34	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

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879 MCQUEEN DRIVE  
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V2B 7X8

Project: UPPER ADAMS  
Comments: ATTN: LEO LINDINGER

Page Number :1-B  
Total Pages :1  
Certificate Date: 26-OCT-2001  
Invoice No. :10125594  
P.O. Number :  
Account :RJH

## CERTIFICATE OF ANALYSIS

A0125594

SAMPLE	PREP CODE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn Ag ppm (ICP)	Al % (ICP)
UAR-PR-01-01	266 267	0.18	135	10	0.01	139	270	26	7.90	< 2	2	5	0.04	< 10	10	11	< 10	144	-----
UAR-H-01-01	266 267	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
HANK	266 267	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
UAR-A-01-01	266 267	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
UAR-0-01-01	266 267	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1.30	7.04
UAR-0-01-03	266 267	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1.42	4.48

CERTIFICATION: \_\_\_\_\_



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879 MCQUEEN DRIVE

KAMLOOPS, BC

V2B 7X8

Project: UPPER ADAMS

Comments: ATTN: LEO LINDINGER

Page Number : 1-C

Total Pages : 1

Certificate Date: 26-OCT-2001

Invoice No. : I0125594

P.O. Number :

Account : RJH

## CERTIFICATE OF ANALYSIS

A0125594

SAMPLE	PREP CODE		As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li
			ppm	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	ppm	ppm	(ICP)	(ICP)	(ICP)
UAR-PR-01-01	266	267	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
UAR-H-01-01	266	267	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
HANK	266	267	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
UAR-A-01-01	266	267	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
UAR-0-01-01	266	267	2.8	534.0	2.70	0.15	2.60	0.08	52.1	6.3	28	0.25	59.5	2.62	19.45	0.15	0.6	0.035	0.93	34.0	4.2
UAR-0-01-03	266	267	2.6	2870	1.55	0.10	1.80	0.10	101.5	5.0	63	0.60	32.4	3.47	11.90	0.30	0.5	0.035	2.78	53.5	9.6

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KAMLOOPS, BC

V2B 7X8

Project: UPPER ADAMS

Comments: ATTN: LEO LINDINGER

Page Number :1-D

Total Pages :1

Certificate Date: 26-OCT-2001

Invoice No. :10125594

P.O. Number :

Account :RJH

## CERTIFICATE OF ANALYSIS

A0125594

SAMPLE	PREP CODE		Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Ta ppm	Th ppm	Ti %
			(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
UAR-PR-01-01	266	267	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
UAR-H-01-01	266	267	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
BLANK	266	267	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
UAR-A-01-01	266	267	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
UAR-0-01-01	266	267	0.42	340	1.20	3.54	16.3	6.8	90	11.5	16.6	0.002	0.48	1.00	< 1	1.0	1730	0.85	< 0.05	4.6	0.12
UAR-0-01-03	266	267	0.90	610	1.00	1.15	29.6	7.4	260	14.5	64.4	0.002	0.19	1.50	< 1	1.2	933	1.25	0.05	13.6	0.35

CERTIFICATION:



# ALS Chemex

Aurora Laboratory Services Ltd.  
Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

Project : UPPER ADAMS  
Comments: ATTN: LEO LINDINGER

Page Number : 1-E  
Total Pages : 1  
Certificate Date: 26-OCT-2001  
Invoice No. : I0125594  
P.O. Number :  
Account : RJH

## CERTIFICATE OF ANALYSIS

A0125594

SAMPLE	PREP		Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr
	CODE		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	ppm
UAR-PR-01-01	266	267	----	----	----	----	----	----	----
UAR-H-01-01	266	267	----	----	----	----	----	----	----
HANK	266	267	----	----	----	----	----	----	----
UAR-A-01-01	266	267	----	----	----	----	----	----	----
UAR-0-01-01	266	267	0.06	0.9	45	0.4	7.8	48	135.0
UAR-0-01-03	266	267	0.30	2.7	116	0.4	21.6	60	64.0

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212 Brooksbank Ave., North Vancouver

British Columbia, Canada V7J 2C1

PHONE: 604-984-0221 FAX: 604-984-0218

To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE

KAMLOOPS, BC

V2B 7X8

Project: COLUMBIA

Comments: ATTN: LEO LINDINGER

Page Number :1-A

Total Pages :1

Certificate Date: 28-SEP-2001

Invoice No. : I0124796

P.O. Number :

Account : RJH

## CERTIFICATE OF ANALYSIS

A0124796

SAMPLE	PREP CODE	Weight Kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
HK-01-01	94139402	0.64	< 0.2	3.46	6	< 10	220	< 0.5	8	2.78	1.5	26	19	43	5.00	< 10	1	1.62	< 10	2.07
HOS-01-01	94139402	0.90	< 0.2	3.81	6	< 10	530	0.5	8	1.87	1.5	36	269	21	5.02	< 10	< 1	0.99	< 10	4.38
HOS-01-02	94139402	1.10	1.0	2.22	2	< 10	110	< 0.5	6	2.88	0.5	23	80	1175	3.84	< 10	1	0.33	< 10	1.92
HOS-01-03	94139402	0.56	< 0.2	1.95	2	< 10	50	< 0.5	6	1.84	< 0.5	11	127	17	1.73	< 10	1	0.05	< 10	0.87

CERTIFICATION:



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To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE

KAMLOOPS, BC

V2B 7X8

Project: COLUMBIA

Comments: ATTN: LEO LINDINGER

Page Number :1-B

Total Pages :1

Certificate Date: 28-SEP-2001

Invoice No. :10124796

P.O. Number :

Account :RJH

## CERTIFICATE OF ANALYSIS

A0124796

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
HK-01-01	94139402	1065	3	0.09	18	1930	4	0.09	6	6	153	0.37	< 10	< 10	224	< 10	76
HOS-01-01	94139402	2030	1	0.08	186	1840	< 2	< 0.01	4	10	145	0.15	< 10	< 10	138	< 10	62
HOS-01-02	94139402	1100	2	0.05	29	2120	< 2	0.01	6	7	252	0.22	< 10	< 10	144	< 10	50
HOS-01-03	94139402	320	1	0.17	31	2240	2	< 0.01	4	4	301	0.15	< 10	< 10	61	< 10	28

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To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE

KAMLOOPS, BC

V2B 7X8

Project: SUNRISE

Comments: ATTN: LEO LINDINGER

Page Number : 1-A

Total Pages : 1

Certificate Date: 03-SEP-2001

Invoice No. : 10123211

P.O. Number :

Account : RJH

## CERTIFICATE OF ANALYSIS

A0123211

SAMPLE	PREP CODE	Weight Kg	Au ppb ICP-MS	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm
SUR-004	94139402	0.72	4	3.8	1.48	6	< 10	20	0.5	28	1.12	8.0	65	84	290	9.35	< 10	< 1	0.32	< 10
SUR-005	94139402	0.72	4	1.4	1.53	2	< 10	< 10	< 0.5	12	0.50	0.5	30	134	96	5.13	< 10	< 1	0.06	< 10
SUR-006	94139402	0.40	9	0.2	0.68	4	< 10	20	< 0.5	8	1.45	5.0	6	72	148	4.55	< 10	< 1	0.01	< 10
SUR-007	94139402	0.36	1	2.0	1.56	2	< 10	10	< 0.5	20	0.43	2.5	9	105	454	9.06	10	< 1	0.14	< 10
SUR-008	94139402	0.64	6	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUR-009	94139402	1.54	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUR-010	94139402	0.20	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUR-011	94139402	0.44	< 1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUR-012	94139402	0.28	3	0.2	2.96	8	< 10	120	0.5	10	5.32	2.5	45	78	81	5.72	10	< 1	0.66	< 10
SUR-013	94139402	0.16	< 1	< 0.2	0.32	10	< 10	30	< 0.5	2	0.70	< 0.5	3	184	6	0.95	< 10	< 1	0.10	< 10

CERTIFICATION:

*[Signature]*



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British Columbia, Canada V7J 2C1

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To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE

KAMLOOPS, BC

V2B 7X8

Project: SUNRISE

Comments: ATTN: LEO LINDINGER

Page Number : 1-B

Total Pages : 1

Certificate Date: 03-SEP-2001

Invoice No. : I0123211

P.O. Number :

Account : RJH

## CERTIFICATE OF ANALYSIS

A0123211

SAMPLE	PREP CODE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
SUR-004	94139402	1.26	270	3	0.01	99	2140	280	6.85	< 2	5	21	< 0.01	< 10	< 10	53	< 10	448
SUR-005	94139402	1.46	150	3	0.03	70	2250	266	3.80	< 2	5	13	< 0.01	< 10	< 10	32	< 10	88
SUR-006	94139402	0.38	1415	< 1	0.02	33	340	36	1.57	< 2	1	26	< 0.01	< 10	< 10	14	< 10	1220
SUR-007	94139402	1.39	210	1	0.04	68	1530	116	7.60	2	6	18	0.12	< 10	< 10	46	< 10	170
SUR-008	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUR-009	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUR-010	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUR-011	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SUR-012	94139402	2.47	670	2	0.08	84	1970	16	1.25	2	12	285	0.06	< 10	< 10	153	< 10	96
SUR-013	94139402	0.20	145	< 1	0.08	12	130	8	0.06	< 2	< 1	32	< 0.01	< 10	< 10	5	< 10	34

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212 Brookbank Ave., North Vancouver  
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**To: RENAISSANCE GEOSCIENCE SERVICES**

879 MCQUEEN DRIVE

KAMLOOPS, BC

V2B 7XB

Project : ADAMS

Comments: ATTN: LEO LINDINGER

Page Number : 1

Total Pages : 1

Certificate Date: 22-AUG-2001

Invoice No. : 10122612

P.O. Number

Account : RJH

## CERTIFICATE OF ANALYSIS

**A0122612**

SAMPLE	PREP CODE	Au ppb ICP-MS	Pb %	Zn %						
OLR-01-03	244 --	-----	5.29	-----						
WRTR-01-05	244 --	49	-----	1.89						
WRTR-01-06	244 --	33	-----	-----						

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PHONE: 604-984-0221 FAX: 604-984-0218

To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE

KAMLOOPS, BC

V2B 7X8

Project: 029

Comments: ATTN: LEO LINDINGER

Page Number :1

Total Pages :1

Certificate Date: 16-AUG-2001

Invoice No. : I0122051

P.O. Number :

Account : RJH

## CERTIFICATE OF ANALYSIS

A0122051

SAMPLE	PREP CODE	Au ppm ICP-MS	Au ppb ICP-MS	Pt ppb ICP-MS	Pd ppb ICP-MS						
FNR-01-15	244 --	39.0	-----	-----	-----						
FNR-01-16	244 --	101.0	-----	-----	-----						
FNR-01-17	244 --	120.0	-----	-----	-----						
AR 98	244 --	-----	< 1	2.0	1						

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To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2S 7X8

Project: ADAMS  
Comments: ATTN: LEO LINDINGER

Page Number :1-A  
Total Pages :1  
Certificate Date: 07-AUG-2001  
Invoice No. :10121307  
P.O. Number :  
Account :RJH

## CERTIFICATE OF ANALYSIS

A0121307

SAMPLE	PREP CODE	Weight	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm
		Kg	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)
FNR-01-15	94139402	0.40	< 0.5	7.22	< 5	90	2.5	68	6.3	1.0	35	68	161	7.55	0.57	2.35	1505	4	1.88	49
FNR-01-16	94139402	0.60	0.5	7.31	5	60	5.0	292	6.5	0.5	27	74	300	4.63	0.10	1.49	1260	4	2.67	17
FNR-01-17	94139402	0.44	0.5	6.79	5	60	4.5	330	4.2	1.5	69	82	526	6.87	0.19	0.87	670	3	2.24	33
OLR-01-06	94139402	1.34	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

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+



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Analytical Chemists \* Geochemists \* Registered Assayers

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British Columbia, Canada V7J 2C1

PHONE: 604-984-0221 FAX: 604-984-0218

To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE

KAMLOOPS, BC

V2B 7X8

Project: ADAMS

Comments: ATTN: LEO LINDINGER

Page Number :1-B

Total Pages :1

Certificate Date: 07-AUG-2001

Invoice No. : I0121307

P.O. Number :

Account : RJH

## CERTIFICATE OF ANALYSIS

A0121307

SAMPLE	PREP CODE	P ppm (ICP)	Pb ppm (ICP)	S % (ICP)	Sb ppm (ICP)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)	Ag ppm (ICP)	Al % (ICP)	As ppm (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Ce ppm (ICP)	Co ppm (ICP)
FNR-01-15	94139402	1160	42	2.38	5	379	1.02	204	4060	206	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FNR-01-16	94139402	1320	20	2.99	< 5	460	0.25	52	40	106	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FNR-01-17	94139402	800	8	5.30	15	400	0.22	33	< 10	120	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
DLR-01-06	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	0.20	3.60	3.0	11.0	0.50	0.90	1.71	0.62	12.45	105.8

CERTIFICATION:

*[Signature]*





# ALS Chemex

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To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE

KAMLOOPS, BC

V2B 7X8

Project: ADAMS

Comments: ATTN: LEO LINDINGER

Page Number :1-C

Total Pages :1

Certificate Date: 07-AUG-2001

Invoice No. : I0121307

P.O. Number :

Account : RJH

## CERTIFICATE OF ANALYSIS

A0121307

SAMPLE	PREP CODE	Cr ppm (ICP)	Cs ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	Ga ppm (ICP)	Ge ppm (ICP)	Hf ppm	In ppm	K % (ICP)	La ppm (ICP)	Li ppm (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Nb ppm (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)
FNR-01-15	94139402	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
FNR-01-16	94139402	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
FNR-01-17	94139402	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
OLR-01-06	94139402	2540	0.40	121.5	6.96	9.05	0.20	0.4	0.065	0.06	6.5	3.0	16.00	1000	0.70	0.13	4.2	852	162	9.5

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Analytical Chemists \* Geochemists \* Registered Assayers  
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PHONE: 604-984-0221 FAX: 604-984-0218

To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

Project: ADAMS  
Comments: ATTN: LEO LINDINGER

Page Number : 1-D  
Total Pages : 1  
Certificate Date: 07-AUG-2001  
Invoice No. : 10121307  
P.O. Number :  
Account : RJH

## CERTIFICATE OF ANALYSIS

A0121307

SAMPLE	PREP CODE	Rb ppm (ICP)	Re ppm	S %	Sb ppm (ICP)	Se ppm	Sn ppm	Sr ppm (ICP)	Ta ppm (ICP)	Te ppm (ICP)	Th ppm (ICP)	Ti %	Tl ppm (ICP)	U ppm (ICP)	V ppm (ICP)	W ppm (ICP)	Y ppm (ICP)	Zn ppm (ICP)	Zr ppm
FNR-01-15	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FNR-01-16	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FNR-01-17	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
OLR-01-06	94139402	3.4	< 0.002	0.30	7.05	< 1	0.8	22.0	0.30	0.05	1.8	0.22	0.06	0.6	118	1.3	5.5	130	5.5

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To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE

KAMLOOPS, BC

V2B 7X8

Project: ADAMS

Comments: ATTN: LEO LINDINGER

Page Number :1-A

Total Pages :1

Certificate Date: 10-AUG-2001

Invoice No. :I0121305

P.O. Number

Account :RJH

## CERTIFICATE OF ANALYSIS

A0121305

SAMPLE	PREP CODE	Weight Kg	Au ppb FA+AA	Au g/t	Zn %	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm
PKR-01-01	94139402	0.62	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PKR-01-02	94139402	0.48	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PKR-01-04	94139402	0.72	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PKR-01-07	94139402	0.82	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PKR-01-08	94139402	0.58	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FNR-01-13	94139402	0.78	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WRTR-01-04	94139402	0.48	45	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
OLR-01-02	94139402	0.54	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
OLR-01-04	94139402	0.88	< 5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
EL.3.2	94139402	0.82	< 5	-----	-----	< 0.2	2.09	< 2	< 10	50	< 0.5	2	0.03	< 0.5	10
EL.3.21	94139402	0.62	< 5	-----	-----	< 0.2	0.11	< 2	< 10	< 10	< 0.5	< 2	0.05	< 0.5	< 1
OLR-01-01	94139402	0.40	< 5	-----	-----	0.6	0.66	< 2	< 10	< 10	7.0	< 2	0.55	1.5	46
OLR-01-03	94139402	0.30	< 5	-----	19.55	5.6	0.63	< 2	< 10	20	< 0.5	< 2	1.70	193.5	21
AR-01-200	94139402	0.48	-----	< 0.03	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FNR-01-01	94139402	0.44	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FNR-01-02	94139402	0.66	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FNR-01-03	94139402	0.70	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FNR-01-04	94139402	0.62	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FNR-01-06	94139402	0.46	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FNR-01-07	94139402	0.54	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FNR-01-12	94139402	0.56	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WRTR-01-05	94139402	0.36	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WRTR-01-06	94139402	0.54	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WRTR-01-08	94139402	0.16	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

CERTIFICATION:

*Renaissance Ig.*



# ALS Chemex

Aurora Laboratory Services Ltd.  
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PHONE: 604-984-0221 FAX: 604-984-0218

To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

Project: ADAMS  
Comments: ATTN: LEO LINDINGER

Page Number : 1-B  
Total Pages : 1  
Certificate Date: 10-AUG-2001  
Invoice No. : IO121305  
P.O. Number :  
Account : RJH

## CERTIFICATE OF ANALYSIS

A0121305

SAMPLE	PREP CODE	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm
PKR-01-01	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PKR-01-02	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PKR-01-04	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PKR-01-07	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
PKR-01-08	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FNR-01-13	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WRTR-01-04	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
OLR-01-02	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
OLR-01-04	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
EL.3.2	94139402	89	23	3.43	10	< 1	1.52	< 10	0.87	235	1	0.04	18	70	< 2
EL.3.21	94139402	87	4	0.29	< 10	< 1	0.07	< 10	< 0.01	10	< 1	0.03	3	130	2
OLR-01-01	94139402	7	658	>15.00	20	< 1	0.01	< 10	0.02	105	8	0.08	25	550	< 2
OLR-01-03	94139402	63	53	7.68	10	26	0.25	< 10	0.06	460	9	0.11	16	520	>10000
AR-01-200	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FNN-01-01	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FNR-01-02	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FNN-01-03	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FNN-01-04	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FNR-01-06	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FNR-01-07	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
FNR-01-12	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WRTR-01-05	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WRTR-01-06	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WRTR-01-08	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

CERTIFICATION:

*[Signature]*



# ALS Chemex

Aurora Laboratory Services Ltd.  
Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

Project: ADAMS  
Comments: ATTN: LEO LINDINGER

Page Number :1-C  
Total Pages :1  
Certificate Date: 10-AUG-2001  
Invoice No. :10121305  
P.O. Number :  
Account :RJH

## CERTIFICATE OF ANALYSIS A0121305

SAMPLE	PREP CODE	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Ag ppm (ICP)	Al % (ICP)	As ppm (ICP)	Ba ppm (ICP)
PKR-01-01	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	6.61	5	160
PKR-01-02	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	7.41	5	1020
PKR-01-04	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	7.48	30	440
PKR-01-07	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	6.95	< 5	170
PKR-01-08	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	4.42	15	510
FNR-01-13	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	7.81	20	610
WRTR-01-04	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1.0	4.53	85	170
OLR-01-02	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	5.79	< 5	470
OLR-01-04	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	7.25	< 5	610
EL.3.2	94139402	0.10	2	7	5	0.21	< 10	< 10	55	< 10	92	-----	-----	-----	-----
EL.3.21	94139402	0.04	< 2	< 1	4	< 0.01	< 10	< 10	< 1	< 10	12	-----	-----	-----	-----
OLR-01-01	94139402	6.77	< 2	< 1	28	< 0.01	< 10	< 10	1	< 10	14	-----	-----	-----	-----
OLR-01-03	94139402	5.62	32	< 1	16	0.03	< 10	< 10	46	< 10	>10000	-----	-----	-----	-----
AR-01-200	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	6.61	< 5	870
FNN-01-01	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	5.76	< 5	20
FNR-01-02	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	3.42	< 5	220
FNN-01-03	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	3.32	< 5	40
FNN-01-04	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	10.25	5	1000
FNR-01-06	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	8.14	5	380
FNR-01-07	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	6.08	5	460
FNR-01-12	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	7.98	< 5	440
WRTR-01-05	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	25	5.54	115	500
WRTR-01-06	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1.6	8.79	10	320
WRTR-01-08	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	5.38	5	480

CERTIFICATION:

*[Signature]*



# ALS Chemex

Aurora Laboratory Services Ltd.  
Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

Project: ADAMS  
Comments: ATTN: LEO LINDINGER

Page Number :1-D  
Total Pages :1  
Certificate Date: 10-AUG-2001  
Invoice No. :10121305  
P.O. Number :  
Account :RJH

## CERTIFICATE OF ANALYSIS A0121305

SAMPLE	PREP CODE	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)
PKR-01-01	94139402	14.5	< 2	0.34	< 0.5	5	84	8	1.07	2.05	0.09	210	1	2.08	8
PKR-01-02	94139402	1.5	< 2	0.42	< 0.5	4	92	6	0.76	2.25	0.19	265	3	2.04	5
PKR-01-04	94139402	2.5	< 2	0.09	< 0.5	5	135	12	2.00	1.96	0.18	250	3	0.90	16
PKR-01-07	94139402	1.0	< 2	0.08	< 0.5	3	36	11	0.63	3.07	0.04	75	< 1	0.48	4
PKR-01-08	94139402	2.0	< 2	0.02	< 0.5	3	142	6	2.55	1.49	0.06	1160	7	0.08	12
FNR-01-13	94139402	0.5	< 2	0.37	< 0.5	5	54	79	1.08	5.19	0.08	50	1	1.44	3
WRTR-01-04	94139402	0.5	2	2.3	< 0.5	21	127	220	3.66	0.66	1.42	1360	496	1.90	61
OLR-01-02	94139402	1.0	< 2	0.70	< 0.5	15	259	69	2.90	1.79	0.67	190	13	1.23	41
OLR-01-04	94139402	2.0	< 2	0.68	< 0.5	23	222	73	3.66	2.76	1.09	390	7	1.18	40
EL.3.2	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
EL.3.21	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
OLR-01-01	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
OLR-01-03	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
AR-01-200	94139402	0.5	< 2	0.74	< 0.5	12	148	42	2.17	2.21	0.54	175	3	1.59	22
FNN-01-01	94139402	2.5	< 2	8.7	0.5	20	138	300	9.05	0.10	1.72	>10000	6	0.11	59
FNR-01-02	94139402	0.5	< 2	0.48	< 0.5	44	174	245	4.14	0.82	0.36	145	5	1.15	110
FNN-01-03	94139402	< 0.5	< 2	2.3	< 0.5	21	262	235	7.84	0.40	1.69	7570	3	0.10	42
FNN-01-04	94139402	1.0	< 2	7.6	< 0.5	35	264	168	6.02	1.35	0.74	1125	3	0.61	73
FNR-01-06	94139402	2.5	< 2	7.8	< 0.5	15	158	18	3.31	1.81	1.04	480	2	1.27	30
FNR-01-07	94139402	1.5	< 2	13.5	< 0.5	12	94	29	2.91	1.81	1.00	445	< 1	0.79	25
FNR-01-12	94139402	3.0	< 2	13.0	< 0.5	17	88	54	3.58	2.50	1.15	530	< 1	1.05	36
WRTR-01-05	94139402	1.0	56	0.13	69.5	38	143	450	8.91	3.30	0.30	170	4	0.11	54
WRTR-01-06	94139402	2.0	< 2	3.1	< 0.5	17	117	150	4.20	4.21	2.68	1065	26	0.12	46
WRTR-01-08	94139402	1.0	< 2	0.55	< 0.5	10	225	55	3.03	1.22	0.89	315	9	1.12	42

CERTIFICATION:

*Leo Lindinger*



# ALS Chemex

Aurora Laboratory Services Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver

British Columbia, Canada V7J 2C1

PHONE: 604-984-0221 FAX: 604-984-0218

To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE

KAMLOOPS, BC

V2B 7X8

Project: ADAMS

Comments: ATTN: LEO LINDINGER

Page Number : 1-E

Total Pages : 1

Certificate Date: 10-AUG-2001

Invoice No. : I0121305

P.O. Number :

Account : RJH

## CERTIFICATE OF ANALYSIS

A0121305

SAMPLE	PREP CODE	P ppm (ICP)	Pb ppm (ICP)	S % (ICP)	Sb ppm (ICP)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)					
PKR-01-01	94139402	180	26	0.03	< 5	94	0.09	14	< 10	98					
PKR-01-02	94139402	410	48	< 0.01	< 5	198	0.08	12	< 10	28					
PKR-01-04	94139402	250	24	0.02	< 5	106	0.15	32	< 10	46					
PKR-01-07	94139402	130	50	0.01	< 5	52	0.01	2	< 10	30					
PKR-01-08	94139402	320	38	0.01	< 5	72	0.06	19	< 10	98					
FNR-01-13	94139402	210	44	0.21	5	291	0.05	1	< 10	18					
WRTR-01-04	94139402	1880	56	2.98	< 5	647	0.14	15	< 10	104					
OLR-01-02	94139402	640	26	0.84	< 5	137	0.30	111	< 10	58					
OLR-01-04	94139402	550	24	1.08	< 5	114	0.34	115	< 10	74					
EL.3.2	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----					
EL.3.21	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----					
OLR-01-01	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----					
OLR-01-03	94139402	-----	-----	-----	-----	-----	-----	-----	-----	-----					
AR-01-200	94139402	240	118	0.52	< 5	345	0.26	47	< 10	238					
FNN-01-01	94139402	3400	20	3.46	5	69	0.18	250	< 10	250					
FNR-01-02	94139402	110	26	2.42	5	93	0.09	18	< 10	36					
FNN-01-03	94139402	4030	10	1.45	10	13	0.16	186	< 10	48					
FNN-01-04	94139402	1300	40	2.12	< 5	304	1.22	270	< 10	146					
FNR-01-06	94139402	230	24	0.05	< 5	1340	0.34	62	< 10	82					
FNR-01-07	94139402	590	24	0.03	< 5	1200	0.43	68	< 10	52					
FNR-01-12	94139402	320	20	0.09	5	2080	0.34	61	< 10	72					
WRTR-01-05	94139402	350	7134	8.59	< 5	44	0.15	60	< 10	>10000					
WRTR-01-06	94139402	370	48	3.11	15	115	0.31	565	< 10	74					
WRTR-01-08	94139402	420	222	0.62	5	118	0.18	247	< 10	112					

CERTIFICATION: \_\_\_\_\_

# ALS Chemex

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Analytical Chemists • Geochemists • Registered Assayers

212 Brooksbank Ave., North Vancouver

212 BROOKSBANK AVE., NORTH VANCOUVER,  
British Columbia, Canada V7J 2C1

PHONE: 604-984-0221 FAX: 604-984-0218

**To: RENAISSANCE GEOSCIENCE SERVICES**

879 MCQUEEN DRIVE

**KAMLOOPS, BC**

V2B 7X8

Project : ADAMS

Comments: ATTN: LEO LINDINGER

Page Number : 1

**Total Pages : 1**

Certificate Date: 13-AUG-2001

Invoice No. : 10122258

P.O. Number

Account : RJH

## CERTIFICATE OF ANALYSIS

**A0122258**

SAMPLE	PREP CODE	Pb %	Zn %								
OLR-01-03	212 --	5.32	20.7								
WRTR-01-05	212 --	-----	2.00								

**CERTIFICATION:**





# ALS Chemex

Aurora Laboratory Services Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver

British Columbia, Canada V7J 2C1

PHONE: 604-984-0221 FAX: 604-984-0218

To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE

KAMLOOPS, BC

V2B 7X8

Project: ADAMS

Comments: A TTN: LEO LINDINGER

Page Number :1-A

Total Pages :1

Certificate Date: 02-AUG-2001

Invoice No. :I0121303

P.O. Number :

Account :RJH

## CERTIFICATE OF ANALYSIS

A0121303

SAMPLE	PREP CODE	Weight Au ppb		Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La
		Kg	FA+AA	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
AWC-01	94139402	0.56	6630	0.4	0.18	< 2	< 10	< 10	0.5	366	5.58	< 0.5	159	5	358	>15.00	< 10	< 1	0.03	50
AWC-02	94139402	0.28	7940	0.8	0.30	6	< 10	< 10	< 0.5	882	5.11	< 0.5	68	11	488	5.96	< 10	< 1	0.14	< 10

CERTIFICATION:



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To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

Project: ADAMS  
Comments: A TTN: LEO LINDINGER

Page Number : 1-B  
Total Pages : 1  
Certificate Date: 02-AUG-2001  
Invoice No. : I0121303  
P.O. Number :  
Account : RJH

## CERTIFICATE OF ANALYSIS

A0121303

SAMPLE	PREP CODE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
AWC-01	94139402	0.09	610	3 < 0.01		87	3370	10	2.92	10	1	49	0.03	< 10	< 10	7	< 10	< 2
AWC-02	94139402	0.17	555	3 < 0.01		42	1730	8	2.52	2	< 1	38	0.04	< 10	< 10	5	< 10	6

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V2B 7X8

Project: ADAMS  
Comments: ATTN: LEO LINDINGER

Page Number : 1-A  
Total Pages : 1  
Certificate Date: 06-AUG-2001  
Invoice No. : I0121241  
P.O. Number :  
Account : RJH

## CERTIFICATE OF ANALYSIS

A0121241

SAMPLE	PREP CODE	Ag ppm (ICP)	Al % (ICP)	As ppm (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Ce ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cs ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	Ga ppm (ICP)	Ge ppm (ICP)	Hf ppm	In ppm	K % (ICP)
* DLM-01-05	299 --	0.22	3.73	0.8	283.0	0.95	0.13	1.55	0.46	35.2	5.4	45	1.50	17.0	1.14	7.95	0.10	0.6	0.030	0.92
* DEN-01-01	299 --	0.66	7.06	1.4	697.6	2.40	0.23	2.70	0.08	72.5	6.3	21	2.20	13.0	1.82	13.40	0.15	1.5	0.045	1.72

CERTIFICATION:



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KAMLOOPS, BC

V2B 7X8

Project: ADAMS

Comments: ATTN: LEO LINDINGER

Page Number :1-B

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Certificate Date: 06-AUG-2001

Invoice No. :10121241

P.O. Number :

Account :RJH

## CERTIFICATE OF ANALYSIS

A0121241

SAMPLE	PREP		La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re	S	Sb ppm	Se	Sn	Sr ppm	Ta ppm	Ta ppm
	CODE		(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	ppm	%	(ICP)	ppm	ppm	(ICP)	(ICP)	(ICP)
OLM-01-05	299	--	19.5	14.8	0.51	1310	1.00	0.98	5.8	19.0	1090	24.5	35.3	0.002	0.12	0.25	< 1	0.6	190.5	0.35	< 0.05
DEN-01-01	299	--	43.5	22.4	0.67	650	1.00	2.14	32.7	8.2	1000	16.0	65.7	< 0.002	0.04	0.15	< 1	2.0	320	5.70	< 0.05

CERTIFICATION:



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879 MCQUEEN DRIVE  
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V2B 7X8

Project: ADAMS  
Comments: ATTN: LEO LINDINGER

Page Number : 1-C  
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Certificate Date: 06-AUG-2001  
Invoice No. : I0121241  
P.O. Number :  
Account : RJH

## CERTIFICATE OF ANALYSIS

A0121241

SAMPLE	PREP CODE		Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr
			(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	(ICP)	ppm
OLM-01-05	299	--	5.2	0.13	0.32	4.0	24	0.1	8.5	116	17.0
DEN-01-01	299	--	20.6	0.25	0.32	63.5	65	6.5	21.8	38	23.5

CERTIFICATION: \_\_\_\_\_



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To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

Project: ADAMS  
Comments: ATTN: LEO LINDINGER

Page Number :1-A  
Total Pages :1  
Certificate Date: 03-AUG-2001  
Invoice No. :10121240  
P.O. Number :  
Account :RJH

## CERTIFICATE OF ANALYSIS

A0121240

SAMPLE	PREP CODE	Weight Kg	Au ppb ICP-MS	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm
PKS-06	94069407	0.26	1	----	----	----	----	----	----	----	----	----	----	----	----
WRTS-01-02	94069407	0.24	----	----	----	----	----	----	----	----	----	----	----	----	----
52+00E 6320N	94069407	0.16	----	1.6	2.92	6	< 10	130	0.5	< 2	0.58	2.0	10	27	36
52+00E 6340N	94069407	0.26	----	1.6	3.39	8	< 10	60	0.5	< 2	0.57	2.5	16	54	44
52+00E 6440N	94069407	0.22	----	0.4	3.86	10	< 10	110	0.5	< 2	0.09	< 0.5	12	31	23
WRTM-01-07	94069407	0.44	6	< 0.2	1.92	4	< 10	180	< 0.5	< 2	1.48	0.5	8	20	31
WRTM-01-09	94069407	0.46	6	0.2	2.40	6	< 10	220	< 0.5	< 2	0.87	< 0.5	20	67	25
OLM-01-05	94069407	0.36	2	----	----	----	----	----	----	----	----	----	----	----	----
DEN-01-01	94069407	0.44	1	----	----	----	----	----	----	----	----	----	----	----	----

CERTIFICATION:



# ALS Chemex

Aurora Laboratory Services Ltd.  
Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

Project: ADAMS  
Comments: ATTN: LEO LINDINGER

Page Number : 1-B  
Total Pages : 1  
Certificate Date: 03-AUG-2001  
Invoice No. : I0121240  
P.O. Number :  
Account : RJH

## CERTIFICATE OF ANALYSIS

A0121240

SAMPLE	FREP CODE	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm
PKS-06	94069407	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WRTS-01-02	94069407	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
52+00E 6320N	94069407	2.47	< 10	< 1	0.08	10	0.40	725	2	0.02	51	420	50	0.03	< 2
52+00E 6340N	94069407	2.63	< 10	< 1	0.05	10	0.54	520	1	0.02	43	530	108	0.04	4
52+00E 6440N	94069407	2.86	< 10	< 1	0.08	< 10	0.40	175	3	0.01	27	750	96	0.03	2
WRTM-01-07	94069407	1.51	< 10	< 1	0.17	80	0.52	415	3	0.02	18	970	10	0.13	2
WRTM-01-09	94069407	2.66	< 10	< 1	0.28	20	0.97	1010	2	0.03	36	940	10	0.10	< 2
OLM-01-05	94069407	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
DEN-01-01	94069407	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

CERTIFICATION:

*Leo Lindinger*



# ALS Chemex

Aurora Laboratory Services Ltd.  
Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

Project: ADAMS  
Comments: ATTN: LEO LINDINGER

Page Number :1-C  
Total Pages :1  
Certificate Date: 03-AUG-2001  
Invoice No. :I0121240  
P.O. Number :  
Account :RJH

## CERTIFICATE OF ANALYSIS

A0121240

SAMPLE	PREP CODE	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Ag ppm (ICP)	Al % (ICP)	As ppm (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)
PKS-06	94069407	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	7.21	< 5	430	1.0	2
WRTS-01-02	94069407	-----	-----	-----	-----	-----	-----	-----	-----	< 0.5	7.36	< 5	630	1.0	2
52+00E 6320N	94069407	3	38	0.14	< 10	< 10	46	< 10	952	-----	-----	-----	-----	-----	-----
52+00E 6340N	94069407	3	34	0.16	< 10	< 10	49	< 10	1290	-----	-----	-----	-----	-----	-----
52+00E 6440N	94069407	3	11	0.11	< 10	< 10	40	< 10	374	-----	-----	-----	-----	-----	-----
WRTM-01-07	94069407	1	141	0.05	< 10	< 10	36	< 10	68	-----	-----	-----	-----	-----	-----
WRTM-01-09	94069407	3	81	0.12	< 10	< 10	56	< 10	162	-----	-----	-----	-----	-----	-----
OLM-01-05	94069407	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
DEN-01-01	94069407	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

CERTIFICATION: \_\_\_\_\_





# ALS Chemex

Aurora Laboratory Services Ltd.  
Analytical Chemists \* Geochemists \* Registered Assayers  
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PHONE: 604-984-0221 FAX: 604-984-0218

To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

Project: ADAMS  
Comments: ATTN: LEO LINDINGER

Page Number : 1-D  
Total Pages : 1  
Certificate Date: 03-AUG-2001  
Invoice No. : I0121240  
P.O. Number :  
Account : RJH

## CERTIFICATE OF ANALYSIS

A0121240

SAMPLE	PREP CODE	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)
PKS-06	94069407	0.62	< 0.5	7	52	24	3.01	1.51	0.41	310	< 1	1.89	12	1070	12
WRTS-01-02	94069407	1.60	< 0.5	18	78	15	3.58	1.15	1.34	475	< 1	1.93	32	1380	10
52+00E 6320N	94069407	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
52+00E 6340N	94069407	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
52+00E 6440N	94069407	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WRTM-01-07	94069407	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WRTM-01-09	94069407	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
OLM-01-05	94069407	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
DEN-01-01	94069407	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

CERTIFICATION:



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Analytical Chemists \* Geochemists \* Registered Assayers  
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To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

Project: ADAMS  
Comments: ATTN: LEO LINDINGER

Page Number :1-E  
Total Pages :1  
Certificate Date:03-AUG-2001  
Invoice No. :I0121240  
P.O. Number :  
Account :RJH

## CERTIFICATE OF ANALYSIS

A0121240

SAMPLE	PREP CODE	S % (ICP)	Sb ppm (ICP)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)							
PKS-06	94069407	0.03	< 5	156	0.43	69	< 10	68							
WRTS-01-02	94069407	0.02	< 5	384	0.46	110	< 10	104							
52+00E 6320N	94069407	-----	-----	-----	-----	-----	-----	-----							
52+00E 6340N	94069407	-----	-----	-----	-----	-----	-----	-----							
52+00E 6440N	94069407	-----	-----	-----	-----	-----	-----	-----							
WRTM-01-07	94069407	-----	-----	-----	-----	-----	-----	-----							
WRTM-01-09	94069407	-----	-----	-----	-----	-----	-----	-----							
OLM-01-05	94069407	-----	-----	-----	-----	-----	-----	-----							
DEN-01-01	94069407	-----	-----	-----	-----	-----	-----	-----							

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PHONE: 604-984-0221 FAX: 604-984-0218

To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

Project: 029  
Comments: ATTN: LEO LINDINGER

Page Number : 1-A  
Total Pages : 1  
Certificate Date: 06-JUL-2001  
Invoice No. : I0118449  
P.O. Number :  
Account : RJH

## CERTIFICATE OF ANALYSIS

A0118449

SAMPLE	PREP CODE	Au ppb FA+AA	Au FA g/t	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm
AR 22	205 226	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
AR 54	205 226	< 5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
AR 78	205 226	>10000	41.74	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
AR 110	205 226	170	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
AR 131	205 226	90	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
AR 132	205 226	10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
AR 133	205 226	10	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
AR 148	205 226	15	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SUR 0	205 226	----	----	0.2	0.78	2	< 10	62	3.0	< 2	0.69	< 0.5	24	84	132	2.52	< 10	< 1	0.10	4
SUR 1	205 226	----	----	6.0	0.89	2	< 10	14	< 0.5	< 2	0.32	< 0.5	260	48	794	9.42	< 10	< 1	0.02	6
BER-02	205 226	----	----	0.6	0.76	< 2	< 10	22	< 0.5	< 2	0.94	< 0.5	48	56	294	4.29	< 10	< 1	0.03	2
AVR-01	205 226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
AVR-03	205 226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
AVR-04	205 226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
AVR-05	205 226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
AR 98	205 226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

NOT INCLUDED IN  
GRANT

CERTIFICATION:  \*



# ALS Chemex

Aurora Laboratory Services Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver

British Columbia, Canada V7J 2C1

PHONE: 604-984-0221 FAX: 604-984-0218

To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE

KAMLOOPS, BC

V2B 7X8

Project: 029

Comments: ATTN: LEO LINDINGER

Page Number :1-B

Total Pages :1

Certificate Date: 06-JUL-2001

Invoice No. :10118449

P.O. Number :

Account :RJH

## CERTIFICATE OF ANALYSIS

A0118449

SAMPLE	PREP CODE	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Ag ppm	Al % (ICP)
AR 22	205 226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
AR 54	205 226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
AR 78	205 226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
AR 110	205 226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
AR 131	205 226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
AR 132	205 226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
AR 133	205 226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
AR 148	205 226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SUR 001	205 226	0.39	363	5	0.06	40	640	20	0.07	< 2	2	46	0.06	< 10	< 10	55	< 10	86	----	----
19KM	205 226	0.54	225	16	< 0.01	297	407	6	6.23	< 2	< 1	88	0.11	< 10	< 10	36	< 10	42	----	----
OC-BER-02	205 226	0.37	170	2	0.07	52	2610	< 2	2.43	< 2	4	28	0.14	< 10	< 10	36	< 10	24	----	----
AVR-01	205 226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	0.30	7.25
AVR-03	205 226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	2.02	8.08
AVR-04	205 226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1.04	6.52
AVR-05	205 226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1.00	7.82
AR 98	205 226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	4.58	6.48

CERTIFICATION:  \*



# ALS Chemex

Aurora Laboratory Services Ltd.  
Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: RENAISSANCE GEOSCIENCE SERVICES

879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

Project: 029  
Comments: ATTN: LEO LINDINGER

Page Number : 1-C  
Total Pages : 1  
Certificate Date: 06-JUL-2001  
Invoice No. : 10118449  
P.O. Number :  
Account : RJH

## CERTIFICATE OF ANALYSIS

A0118449

SAMPLE	PREP CODE	As ppm ppm (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Ce ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cs ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	Ga ppm (ICP)	Ge ppm (ICP)	Hf ppm	In ppm	K % (ICP)	La ppm (ICP)	Li ppm (ICP)
AR 22	205 226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
AR 54	205 226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
AR 78	205 226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
AR 110	205 226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
AR 131	205 226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
AR 132	205 226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
AR 133	205 226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
AR 148	205 226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SUR 001 19KM	205 226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
OC-BER-02	205 226	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
AVR-01	205 226	1.8	800.4	3.30	0.41	0.28	0.30	81.8	22.5	183	3.00	89.6	3.68	20.80	0.25	0.8	0.055	2.79	42.0	23.8
AVR-03	205 226	1.8	1251.0	3.00	0.93	5.50	0.34	127.0	79.4	357	4.85	117.4	9.09	22.45	0.20	2.7	0.135	0.80	66.5	32.2
AVR-04	205 226	1.2	677.8	1.50	0.50	6.90	0.42	67.4	48.9	374	13.40	53.1	6.96	18.05	0.20	1.5	0.080	0.98	36.0	31.4
AVR-05	205 226	1.0	1000.5	5.20	0.11	5.10	0.20	113.0	25.7	64	1.75	90.8	6.67	28.40	0.15	0.6	0.105	0.19	58.0	61.8
AR 98	205 226	0.6	286.0	19.30	0.29	7.00	0.28	>500	107.0	124	0.60	300.0	5.98	17.05	0.85	2.2	0.055	3.64	378	15.6

CERTIFICATION: 



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Page Number : 1-D

Total Pages : 1

Certificate Date: 06-JUL-2001

Invoice No. : I0118449

P.O. Number :

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## CERTIFICATE OF ANALYSIS

A0118449

SAMPLE	PREP CODE	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Nb ppm (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Rb ppm (ICP)	Re ppm	S % (ICP)	Sb ppm (ICP)	Se ppm	Sn ppm (ICP)	Sr ppm (ICP)	Ta ppm (ICP)	Te ppm (ICP)	Th ppm (ICP)	Ti % (ICP)
AR 22	205 226	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
AR 54	205 226	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
AR 78	205 226	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
AR 110	205 226	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
AR 131	205 226	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
AR 132	205 226	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
AR 133	205 226	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
AR 148	205 226	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SUR 001	205 226	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19KM	205 226	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
OC-BER-02	205 226	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
AVR-01	205 226	0.90	250	12.55	1.05	1.6	46.4	250	49.0	117.5	0.022	1.95	0.20	3	1.0	141.0	0.20	0.20	14.4	0.08
AVR-03	205 226	2.01	990	3.50	2.06	107.5	123.5	2630	10.5	44.6	0.002	1.53	0.70	2	8.2	541	5.05	0.25	7.6	1.62
AVR-04	205 226	3.62	1155	0.90	1.71	53.9	155.5	1350	8.0	65.9	0.002	0.74	0.45	1	2.4	413	2.55	0.10	6.0	1.01
AVR-05	205 226	1.34	1415	2.80	3.10	61.3	44.0	2340	3.5	8.0	0.002	0.32	0.45	1	1.8	328	2.80	0.05	10.0	0.64
AR 98	205 226	1.49	1520	0.55	1.00	299	66.9	1390	13.5	91.8	0.012	0.90	0.65	3	1.4	5070	11.85	0.15	86.0	0.57

*Handwritten notes:*  
30g/m  
5m  
\$3.00/gr  
= 100/oz  
3000/Kilo  
\$10.00/gr  
5m  
Ce/La  
\$700/gr

CERTIFICATION:



# ALS Chemex

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Analytical Chemists \* Geochemists \* Registered Assayers

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KAMLOOPS, BC

V2B 7X8

Project: 029

Comments: ATTN: LEO LINDINGER

Page Number :1-E

Total Pages :1

Certificate Date: 06-JUL-2001

Invoice No. :10118449

P.O. Number :

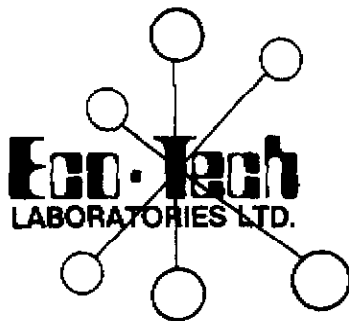
Account :RJH

## CERTIFICATE OF ANALYSIS

A0118449

SAMPLE	PREP CODE	Tl ppm (ICP)	U ppm (ICP)	V ppm (ICP)	W ppm (ICP)	Y ppm (ICP)	Zn ppm (ICP)	Zr ppm
AR 22	205 226	----	----	----	----	----	----	----
AR 54	205 226	----	----	----	----	----	----	----
AR 78	205 226	----	----	----	----	----	----	----
AR 110	205 226	----	----	----	----	----	----	----
AR 131	205 226	----	----	----	----	----	----	----
AR 132	205 226	----	----	----	----	----	----	----
AR 133	205 226	----	----	----	----	----	----	----
AR 148	205 226	----	----	----	----	----	----	----
SUR 001	205 226	----	----	----	----	----	----	----
19KM	205 226	----	----	----	----	----	----	----
OC-BER-02	205 226	----	----	----	----	----	----	----
AVR-01	205 226	0.68	7.3	94	0.5	7.0	104	25.5
AVR-03	205 226	0.30	3.0	192	1.9	33.1	114	74.5
AVR-04	205 226	0.46	1.2	155	1.8	19.1	152	42.5
AVR-05	205 226	0.08	2.1	119	5.7	46.0	96	11.0
AR 98	205 226	0.34	15.2	227	0.3	38.0	132	40.5

CERTIFICATION:



**ASSAYING  
GEOCHEMISTRY  
ANALYTICAL CHEMISTRY  
ENVIRONMENTAL TESTING**

10041 Dallas Drive, Kamloops, B.C. V2C 6T4  
Phone (250) 573-5700 Fax (250) 573-4557  
email: ecotech@direct.ca

**CERTIFICATE OF ASSAY AK 2001-268R**

**RENAISSANCE GEOSCIENCE SERVICES**

879 MCQUEEN DRIVE

KAMLOOPS, BC

V2B 7X8

12-Sep-01

**ATTENTION: LEO LINDINGER**

No. of samples received: 8

Sample type: Rock

Project #: 027

Shipment #: 2001-01

Samples submitted by: L. Lindinger

ET #.	Tag #	Au (g/t)	Au (oz/t)	Fe (%)
2	LBR-01-02	<0.03	<0.001	18.80
3	LBR-01-03	-	-	21.83

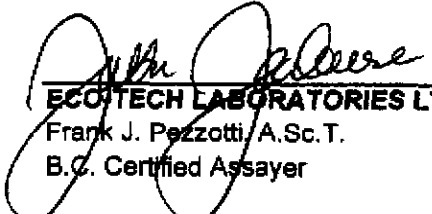
**QC DATA:**

Repeat:

R2	LBR-01-02	<0.03	<0.001	1.22
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XLS/01

cc: Pulse Fire Exploration - Mail

  
**ECOTECH LABORATORIES LTD.**  
Frank J. Pezzotti, A.Sc.T.  
B.C. Certified Assayer





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ENVIRONMENTAL TESTING

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Phone (250) 573-5700 Fax (250) 573-4557  
email: ecotech@direct.ca

## CERTIFICATE OF ASSAY AK 2001-268

RENAISSANCE GEOSCIENCE SERVICES  
879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

31-Aug-01

ATTENTION: LEO LINDINGER

No. of samples received: 8  
Sample type: Rock  
Project #: 027  
Shipment #: 2001-01  
Samples submitted by: L. Lindinger

ET #.	Tag #	Ag (g/t)	Ag (oz/t)
2	LBR-01-02	163.0	4.75
3	LBR-01-03	35.6	1.04

### QC DATA:

**Repeat:**

R2	LBR-01-02	163.0	4.75
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**Standard:**

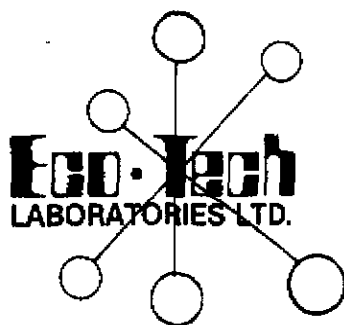
Mpla		69.8	2.04
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XLS/01

cc: Pulse Fire Exploration - Mail

  
ECO-TECH LABORATORIES LTD.

Frank J. Pezzotti, A.Sc.T.  
B.C. Certified Assayer



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ENVIRONMENTAL TESTING**

10041 Dallas Drive, Kamloops, B.C. V2C 6T4  
Phone (250) 573-5700 Fax (250) 573-4557  
email: ecotech@direct.ca

**CERTIFICATE OF ASSAY AK 2001-293**

**PULSE FIRE EXPLORATION  
#6 2084 ROBSON PLACE  
KAMLOOPS, BC  
V2E 2M6**

12-Sep-01

**ATTENTION: DAVID PIPE**

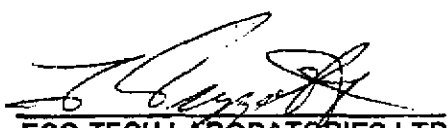
*No. of samples received: 9  
Sample type: Rock  
Project #: 027 LDB  
Shipment #: 2001-02  
Samples submitted by: Leo Lindinger*

ET #.	Tag #	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)	Pb (%)	Zn (%)
4	LBR-01-13	0.04	0.001	14.4	0.42	0.74	0.87
5	LBR-01-14	0.04	0.001	59.4	1.73	2.21	1.89

**QC DATA:**

**Repeat:**

4	LBR-01-13	0.03	0.001	14.4	0.42	0.74	0.86
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**ECO-TECH LABORATORIES LTD.**  
Frank J. Pezzotti, A.Sc.T.  
B.C. Certified Assayer

XLS/01  
CC: Leo Lindinger

30-Aug-01

ECO-TECH LABORATORIES LTD.  
10041 Dallas Drive  
KAMLOOPS, B.C.  
V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 2001-268

RENAISSANCE GEOSCIENCE SERVICES  
879 MCQUEEN DRIVE  
KAMLOOPS, BC  
V2B 7X8

Phone: 250-573-5700  
Fax : 250-573-4557

ATTENTION: LEO LINDINGER

No. of samples received: 8

Sample type: Rock

Project #: 027

Shipment #: 2001-01

Samples submitted by: L. Lindinger

Values in ppm unless otherwise reported

Et #.	Tag #	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	LBR-01-01	1.0	0.75	<5	135	<5	2.87	4	30	75	1541	3.21	<10	0.32	2109	1	0.01	23	390	22	5	<20	65	0.09	<10	13	<10	<1	245
2	LBR-01-02	>30	1.33	<5	<5	440	1.39	10	54	51	2127	>10	<10	1.18	2584	91	0.01	24	1390	7192	10	60	55	0.08	20	35	530	<1	1343
3	LBR-01-03	>30	0.68	<5	<5	105	0.56	3	69	38	829	>10	<10	0.54	1165	34	0.01	41	370	936	<5	120	32	0.05	30	21	20	<1	34
4	LBR-01-04	2.8	0.65	<5	30	5	1.23	11	10	83	15	1.46	<10	0.26	2453	<1	0.01	10	700	396	<5	<20	65	0.08	<10	13	<10	<1	1647
5	LBR-01-05	2.0	2.54	<5	280	<5	0.91	24	146	60	1399	>10	<10	1.98	2162	55	0.03	60	500	40	<5	60	63	0.14	20	115	20	<1	1513
6	LBR-01-06	0.2	0.91	<5	25	<5	0.24	<1	38	94	339	>10	<10	0.40	177	14	0.02	34	320	8	10	<20	26	0.13	<10	27	40	<1	4
7	LBR-01-07	<0.2	2.31	<5	75	<5	0.68	<1	15	125	65	3.16	<10	1.14	382	3	0.09	19	310	20	10	<20	64	0.16	<10	45	<10	<1	12
8	LBR-01-08	<0.2	1.45	<5	340	<5	0.70	<1	9	101	10	2.86	<10	1.48	416	2	0.04	14	1930	8	<5	<20	56	0.18	<10	48	<10	<1	49

QC DATA:

Resplit:

1	LBR-01-01	1.0	0.73	<5	125	<5	2.80	4	30	71	1513	3.13	<10	0.31	2082	1	0.01	21	400	24	<5	<20	60	0.08	<10	13	<10	<1	243
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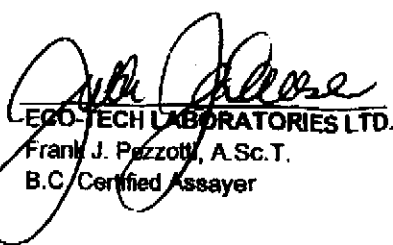
Repeat:

2	LBR-01-02	>30	1.37	<5	<5	440	1.44	10	56	52	2168	>10	<10	1.21	2630	93	0.01	26	1460	7354	10	100	52	0.06	20	36	560	<1	1315
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Standard:

GEO'01		1.2	1.62	60	135	<5	1.55	<1	18	51	84	3.44	<10	0.90	652	<1	0.02	24	740	24	10	<20	52	0.09	<10	67	<10	<1	16
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FP/kk  
dl/268  
XLS/01  
CC: Pulse Fire Exploration - Mail

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

11-Sep-01

**ECO-TECH LABORATORIES LTD.**  
10041 Dallas Drive  
KANLOOPS, B.C.  
V2C 6T4

Phone: 250-573-5700  
Fax : 250-573-4557

## ICP CERTIFICATE OF ANALYSIS AK 2001-293

PULSE FIRE EXPLORATION  
#6 2084 ROBSON PLACE  
KAMLOOPS, BC  
V2E 2M6

**ATTENTION: DAVID PIPE**

**No. of samples received: 9**  
**Sample type: Rock**  
**Project #: 027 LDB**  
**Shipment #: 2001-02**  
**Samples submitted by: Leo Lindinger**

**Values in ppm unless otherwise reported**

Et #.	Tag #	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	LBR-01-09	<0.2	0.25	10	<5	<5	0.03	<1	15	133	117	2.52	<10	0.11	72	<1	0.01	30	50	<2	<5	40	5	<0.01	<10	3	<10	<1	5
2	LBR-01-10	<0.2	4.35	20	20	<5	1.42	<1	116	87	559	9.63	<10	1.58	494	<1	0.27	104	550	26	15	80	128	0.12	<10	59	10	<1	59
3	LBR-01-12	<0.2	1.17	10	25	<5	3.78	<1	23	76	69	4.24	<10	0.35	2273	<1	0.01	16	610	8	<5	20	33	0.10	<10	14	<10	<1	75
4	LBR-01-13	12.6	0.81	5	10	30	1.80	62	21	83	31	1.82	<10	0.45	3106	<1	0.02	10	340	6992	<5	<20	68	0.09	<10	16	60	<1	7815
5	LBR-01-14	>30	0.51	<5	<5	115	2.45	122	24	56	60	1.54	<10	0.15	>10000	<1	0.01	5	350	>10000	<5	<20	64	0.08	<10	11	140	<1	>10000
6	LBR-01-15	1.2	5.06	15	70	<5	2.71	1	50	102	680	6.24	<10	1.75	910	<1	0.17	64	570	98	10	60	232	0.10	<10	78	<10	<1	166
7	LBR-01-16	2.6	1.17	<5	60	25	5.92	47	60	65	462	9.43	<10	0.64	3480	3	0.01	87	470	70	<5	60	34	0.08	<10	29	20	<1	4341
8	LBR-01-17	<0.2	1.50	<5	430	<5	2.76	1	11	69	16	3.34	50	1.54	1326	<1	0.03	17	2080	18	<5	20	95	<0.01	<10	61	10	16	195
9	LBR-01-18	0.8	1.73	5	205	15	4.77	10	17	83	18	3.97	<10	1.01	3886	<1	0.01	21	300	48	<5	20	144	0.07	<10	27	<10	<1	863

**QC DATA:**

**Resplit:**

1	LBR-01-09	<0.2	0.25	10	<5	<5	0.03	<1	16	133	137	2.48	<10	0.11	68	2	0.01	30	50	2	<5	20	<1	<0.01	<10	3	<10	<1	6
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**Repeat:**

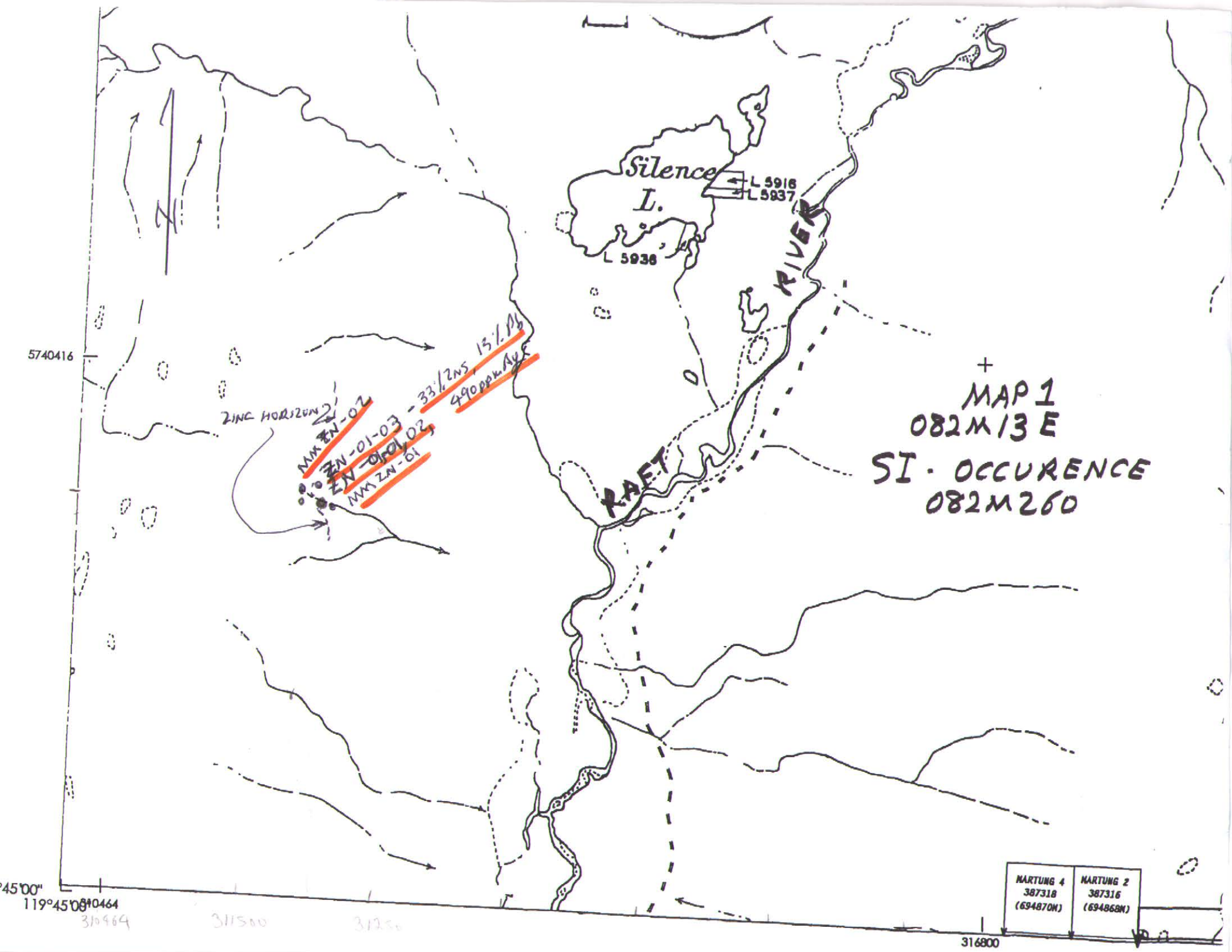
1	LBR-01-09	<0.2	0.24	10	<5	<5	0.04	<1	13	133	114	2.43	<10	0.11	80	<1	0.01	29	50	2	<5	20	1	<0.01	<10	3	<10	<1	8
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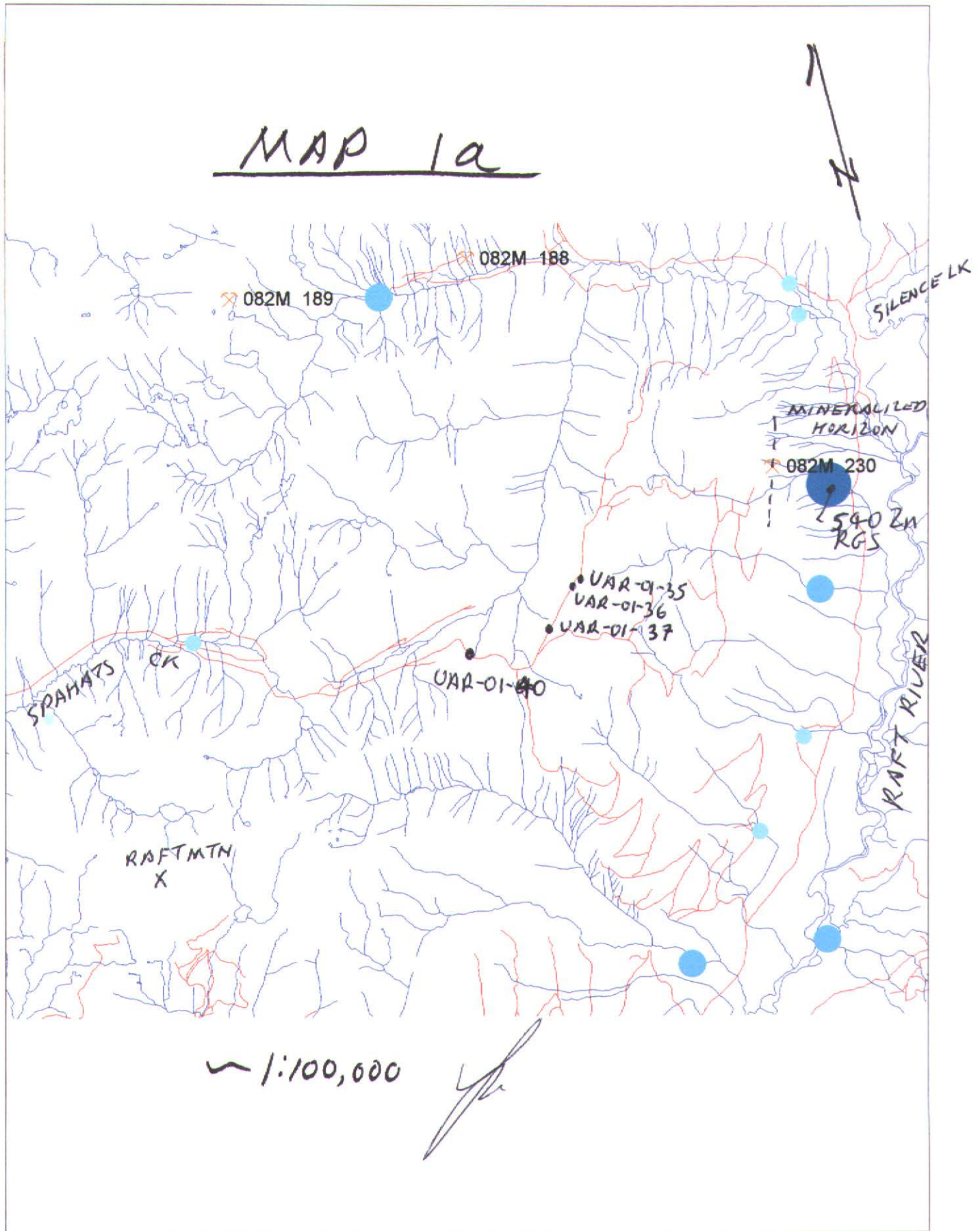
**Standard:**

GE001	1.2	1.62	60	135	<5	1.46	<1	18	51	84	3.36	<10	0.91	651	<1	0.02	23	700	24	10	20	51	0.09	<10	67	<10	<1	73
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FP/kk  
df/287  
XLS/01  
CC: Leo Lindner

  
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B.C. Certified Assayer







RAFT RIVER

## MAP 2

CLAIM MAP

SUNRISE - SNOW - MCMETAL PROPERTY  
RED TOP PROPERTY

Cr.

McCorvie

CXL  
GRIZZ-1  
386743  
5NX4W

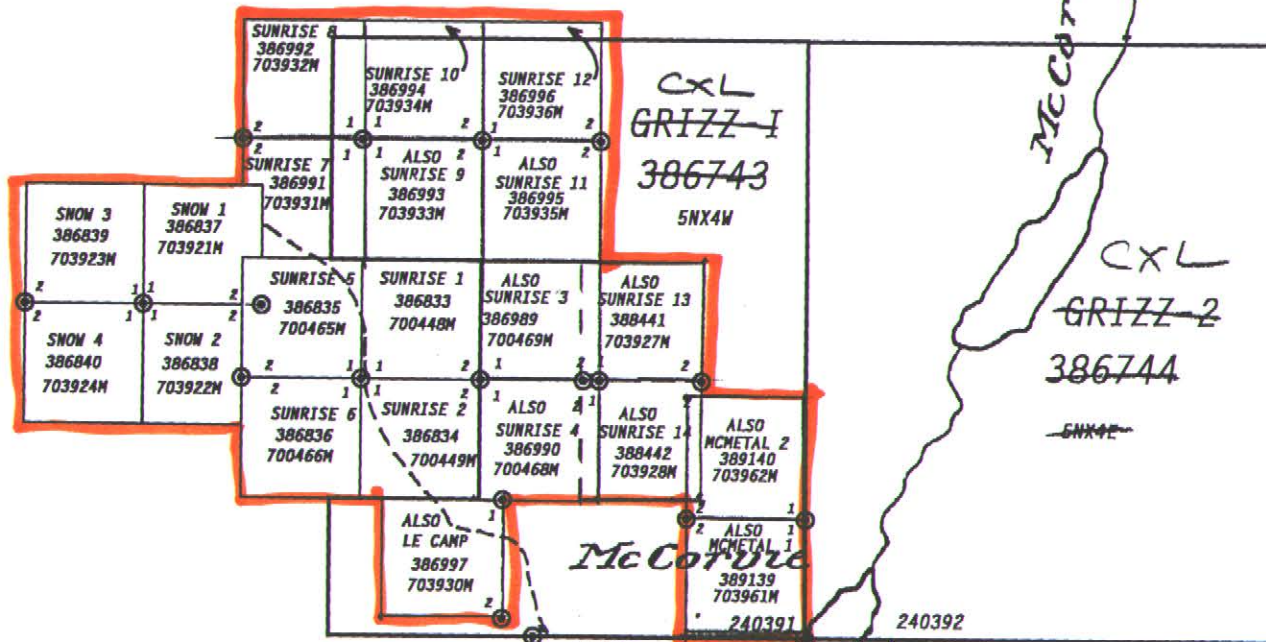
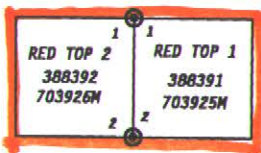
CXL  
GRIZZ-2  
386744  
5NX4E

McCorvie

220750

JACK-I  
386745  
55X3E  
CXL

Mc Cr.



& PLACER

177/96

CROSSING Cr.

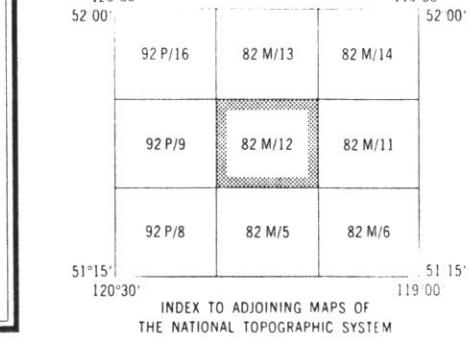
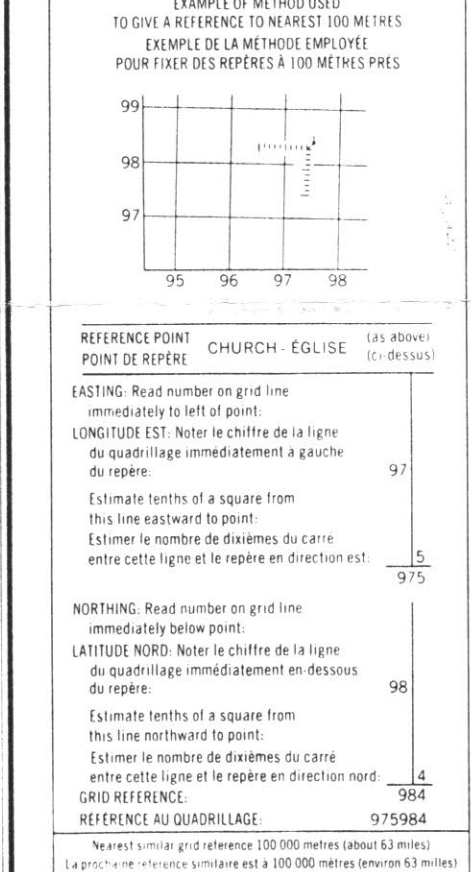
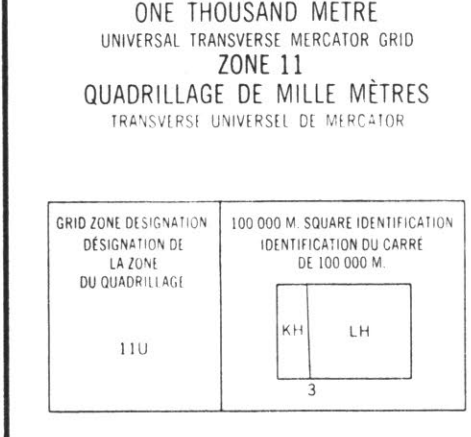
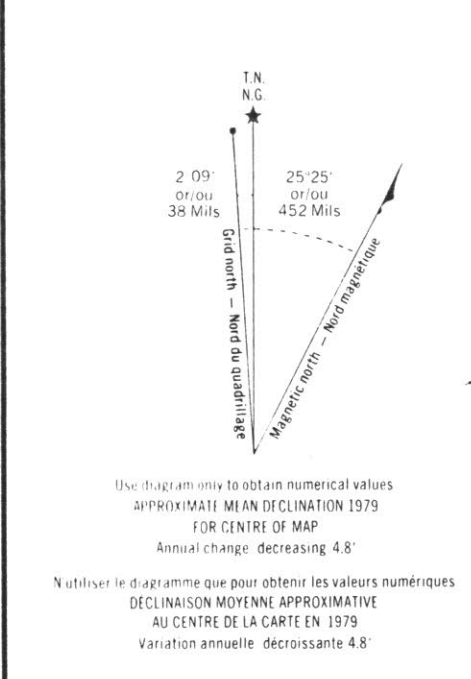




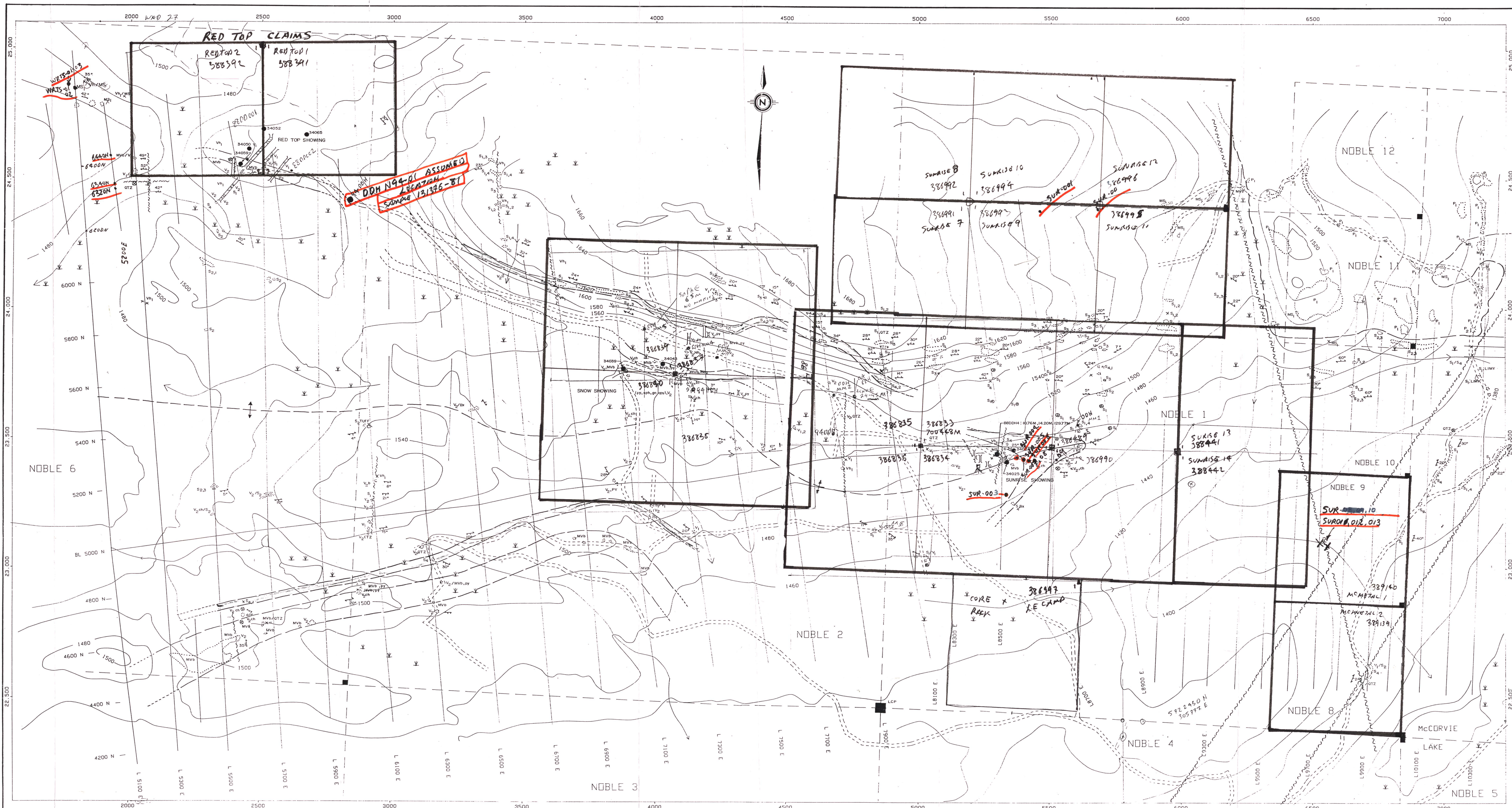
Military users, refer to this map as: **SERIES A 721 SÉRIE MAP 82 M/12 CARTE**  
Référence de cette carte pour usage militaire: **ÉDITION 2 MCE ÉDITION**

GLOSSARY GLOSSAIRE	
Airfield	Terrain d'aviation
Arms	Armes
City Limits	Limites de ville
Customs	Douane
Ditch	Fossé
Dugout	Abri souterrain
Dune	Dune
Filtration Plant	Usine de filtration
Gas	Car
Golf Course	Terrain de golf
Gun Yard	Ferraille
Harbour	Port
Hotel	Hôtel
Lookout	Belvédère
Motor Vehicle	Véhicule à moteur
Oil Wells	Puits de pétrole
Park	Parc
Rail	Voie ferrée
Senior Citizens Home	Foyer de la vieillesse
Ski Area	Station de ski
String Bag	Fondrière à liaments
Surveyed Line	Ligne arpentée
Tank	Réservoir
Water	Eau
Water Road	Chemin d'eau

ABBREVIATIONS ABRÉVIATIONS	
Abund.	Abondance
C.	Century
CD	County
E.	Elevation
F.	Ferry
IR	Indian Reserve
L.	Lot
M.	Municipality
Micro.	Microphone
Man.	Municipality
P.	Past Office
Pl.	Power House
R.C.M.P.	Royal Canadian Mounted Police
Res.	Reservoir
Trans. Sta.	Transformer Station
Trl.	Tree Line







## Volcanics

Sedimentary

Metamorphic

## SYMBOLS

MAP 2A

### LEGEND

**v<sub>1</sub>** Sericite Schist; fine grained, medium grey, generally well foliated, rusty weathered surface, minor limy/skanifried sections.

**v<sub>2</sub>** Quartz-Sericite Schist; fine grained, light grey-white, generally well foliated, minor limy/limestone sections.

**vh<sub>1</sub>** Mafic Dyke; fine grained, dark grey-black, feldspar phenocrysts, associated with shear/fault zones.

## Intrusives

P <sub>1</sub>	Biotite Granodiorite; medium grained, white - black, equigranular
P <sub>2</sub>	Granite; fine grained, light grey - white, equigranular.

**S<sub>1</sub>** Phyllite; very fine grained, dark grey-black, moderately to well foliated  $\pm$  graphitic sections.

**S<sub>2</sub>** Feldspathic Litharenite; fine grained, medium to dark grey, moderately foliated to massive.

**S<sub>2a</sub>** same as **S<sub>2</sub>** except has fine felsic fragments (luff?)

**S<sub>3</sub>** Litharenite-Arenite; fine grained, medium grey, generally massive.

**S<sub>4</sub>** Limestone; crystalline, dark bluish grey to white, highly calcareous poorly foliated to massive, units **S<sub>1</sub>-S<sub>3</sub>** can be intercalated with limestone.

**MS** Hornfels; fine grained, massive, medium grey to black  
 , conical fractures.

**Mvb** metamorphosed mafic volcanic, carbonitized, fine grained,  
 massive, medium greenish-grey to dark green, non calcareous.

## Abbreviations

po - pyrrhotite	py - pyrite	Bx - Breccia
gn - galena	epi - epidote	Otz/Carb - Quartz-Carbonate alteration
sph - sphalerite	ch - chlorite	Si - Siliceous
cpy - chalcopyrite	mag - magnetite	Fe - Rusty
	tl - bleached	Otz - Quartz Vein/Sweat

Anticline

Strike and dip of foliation

Horizontal foliation

Fault/shear zone

Outcrop, (large, small)

Subcrop

Geological Contact;

-inferred

-assumed

Trench

Legend for map symbols:

- PDI GRID LINES
- LEGAL CORNER POST
- CLAIM LINE
- LAKE OR SLOUGH
- SWAMPY AREA
- STREAM; CONTINUOUS FLOW
- STREAM; INTERMITTENT FLOW
- CONTOUR LINES (METERS)
- 1560
- SECONDARY OR LOGGING ROAD
- THIN SECTION SAMPLE LOCATION

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

2019

Part 2 of 3 01-37 (3)

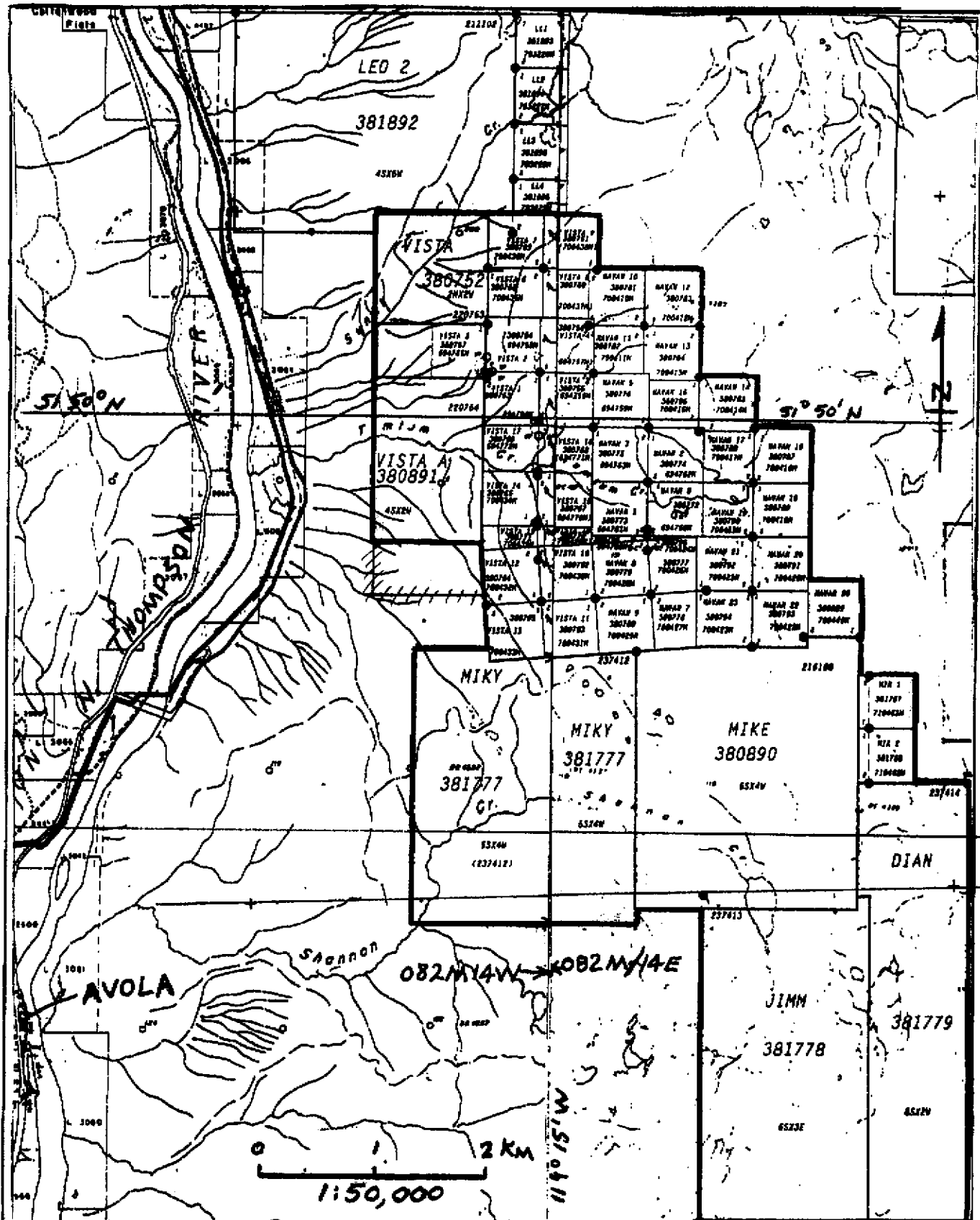
**D**PLACER DOME INC.  
**NOBLE CLAIMS V188**

DRAWN: GAD	GEOLOGY MAP AND THIN SECTION LOCATION
DATE: MAY 90	
SCALE: 1:5000	
REV.	FIGURE 4

PROSPECTING GRANT P 01-02-66

SOIL & ROCK SAMPLE LOCATION MAP

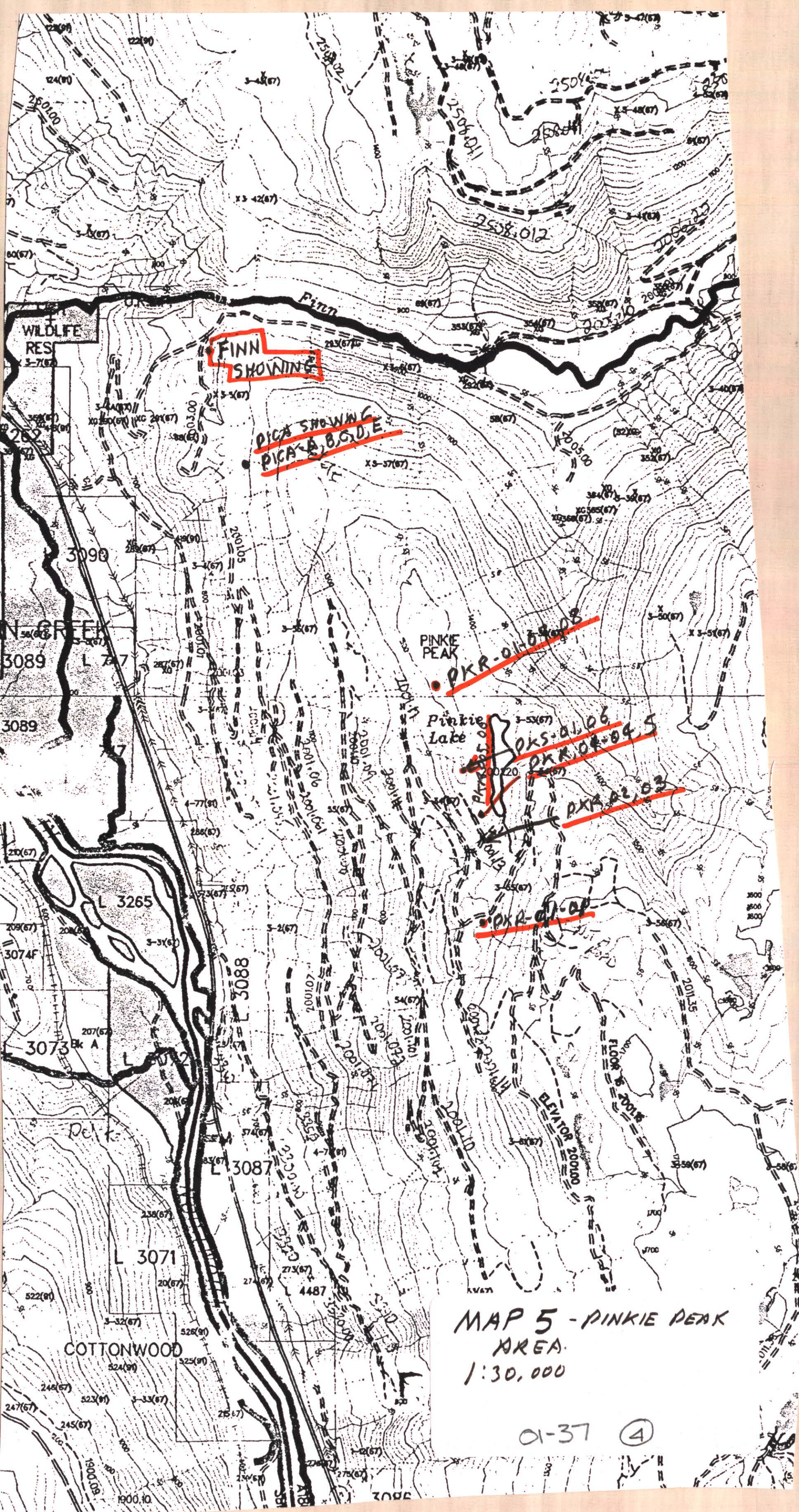




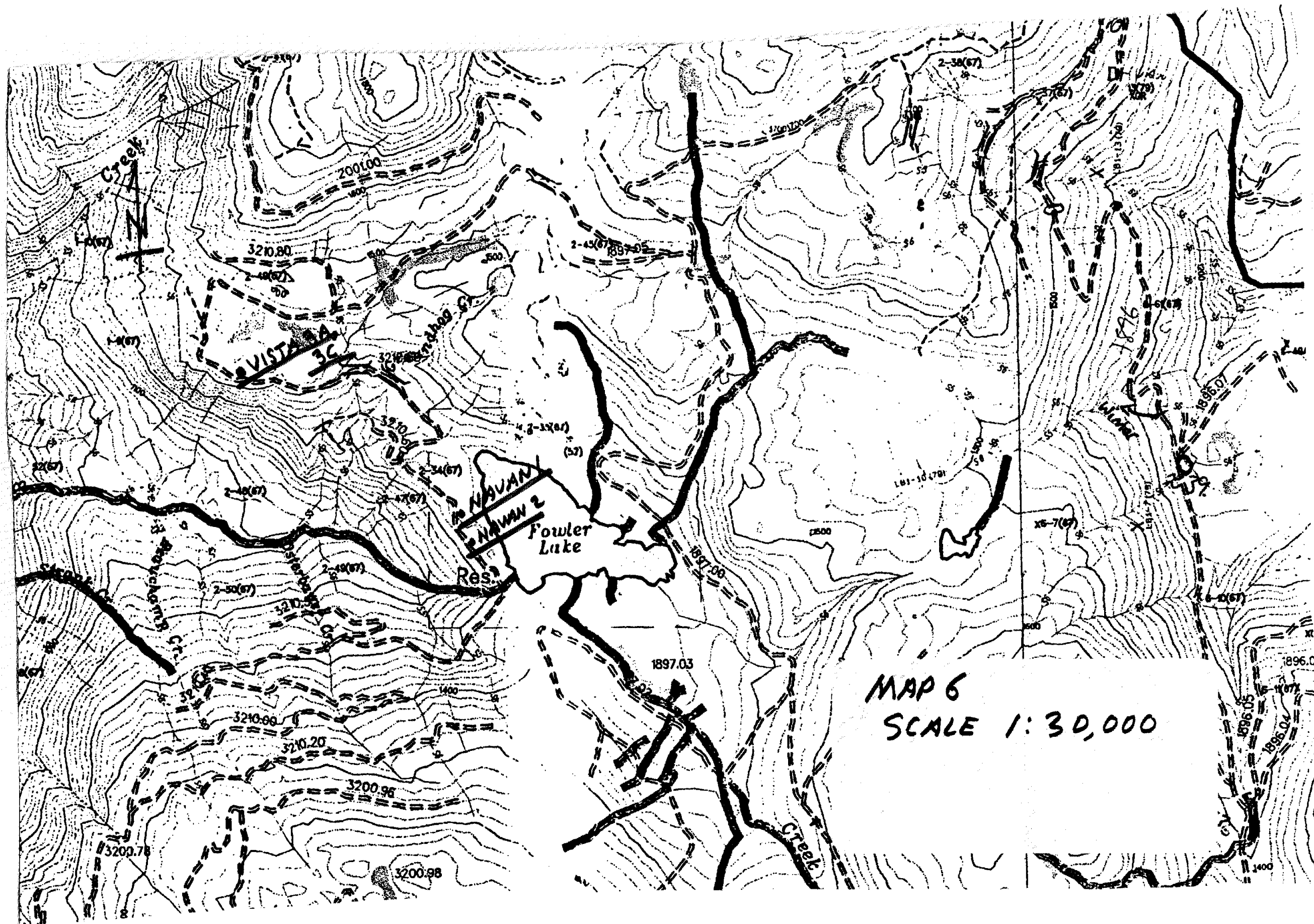
**MINERAL TENURE MAP BROKEN HILL PROPERTY**

**MAP 4**









**NO STAKING**

**2001 MARK**

**BIZ 1**

**BIZ 6**

**BIZ 4**

**366276**

**371856**

**369719**

**BIZ 2**

**369518**

**BIZ 7**

**370056**

**BIZ 5**

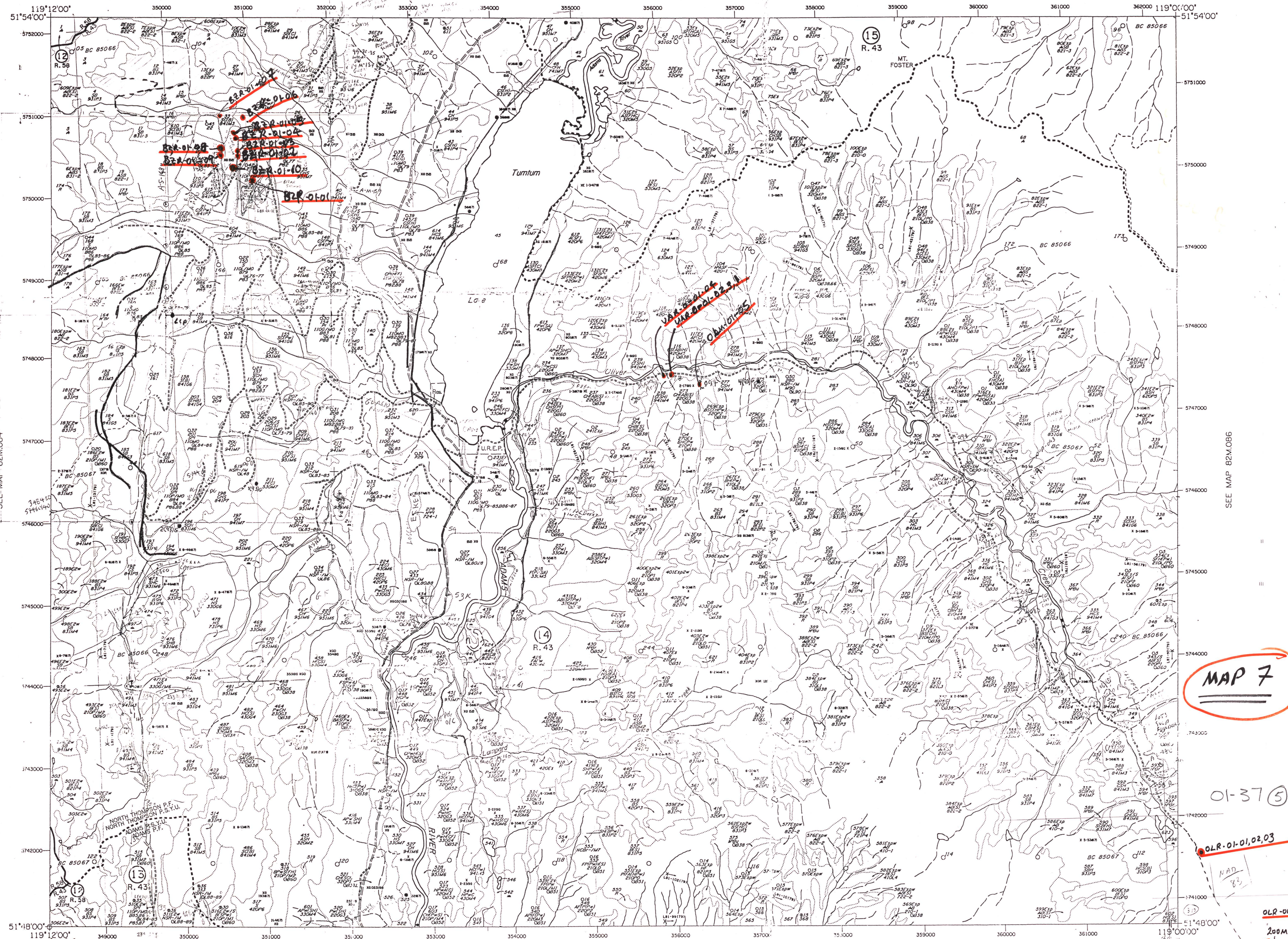
**369519**

**UPPER ADAMS RIVER PARK**

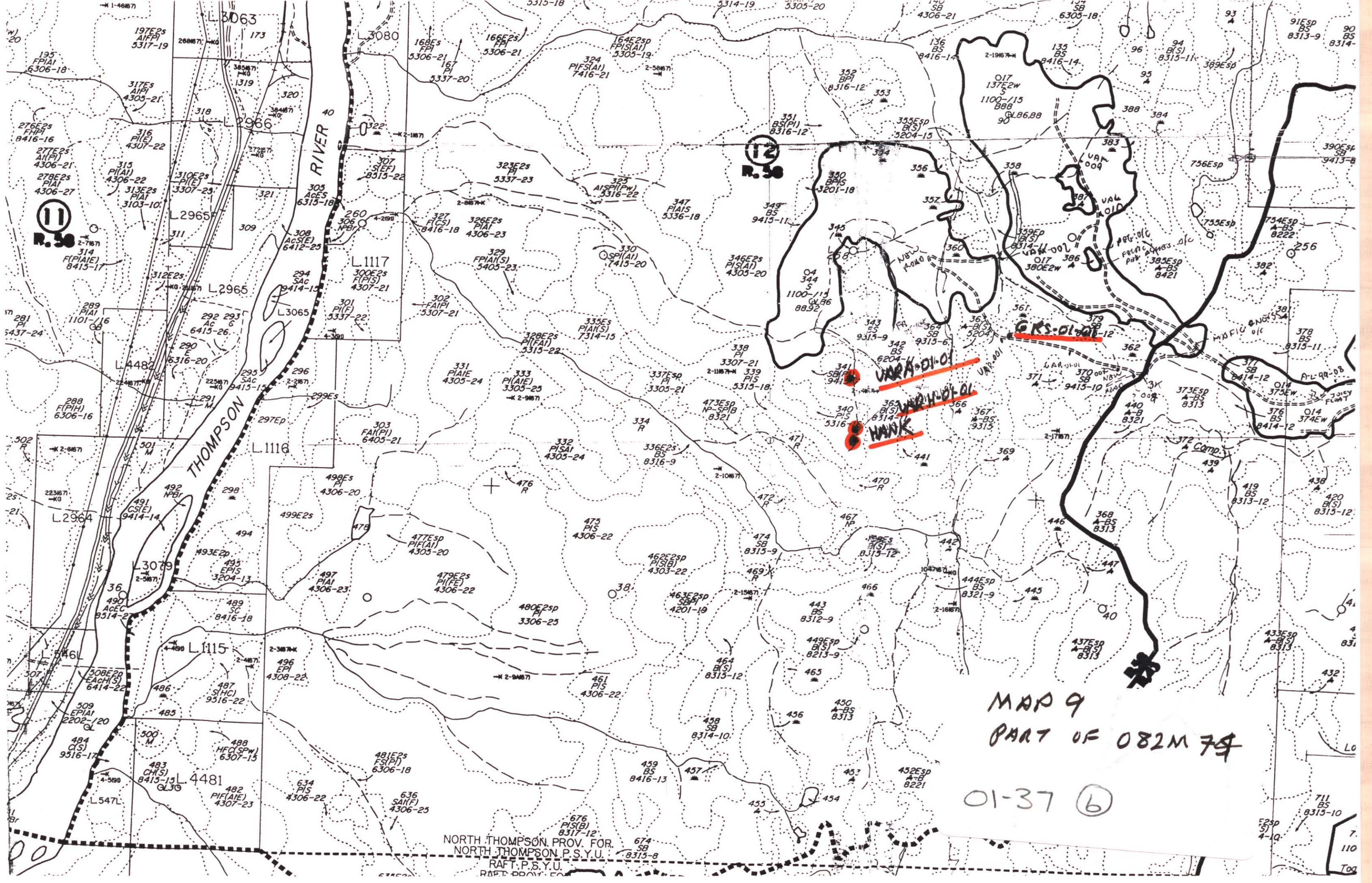
**Tumtum Lake**

FISHERY 1	FISHERY 2
360000	360001
000000	000001
FISHERY 3	FISHERY 4
360002	360003
000002	000003
FISHERY 5	FISHERY 6
360004	360005
000004	000005
FISHERY 7	FISHERY 8
360006	360007
000006	000007
FISHERY 9	FISHERY 10
360008	360009
000008	000009







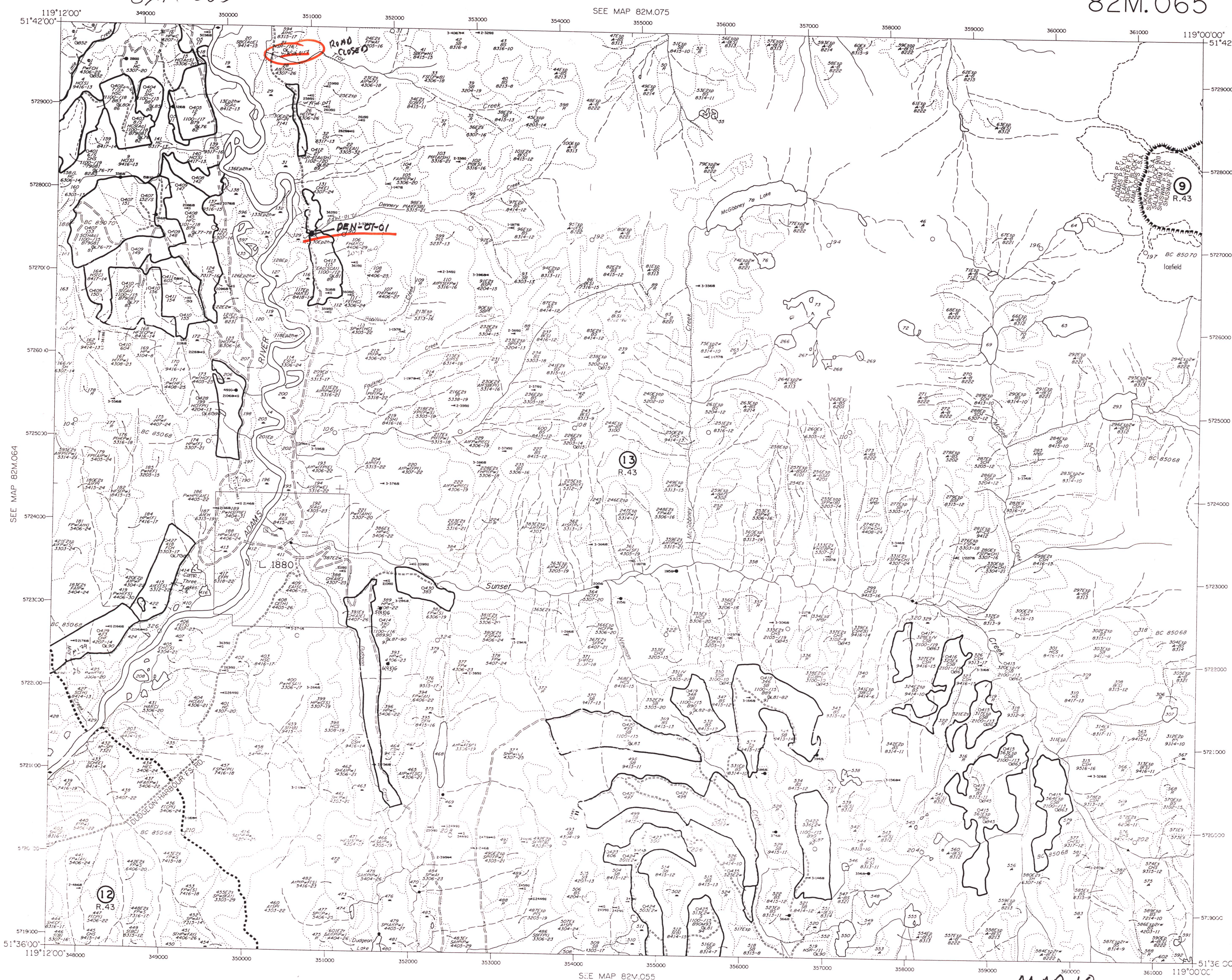




[illegible]

349000 350000

355000



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○ ○ A A ○ ○

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082M065

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SCALE 1:20 000

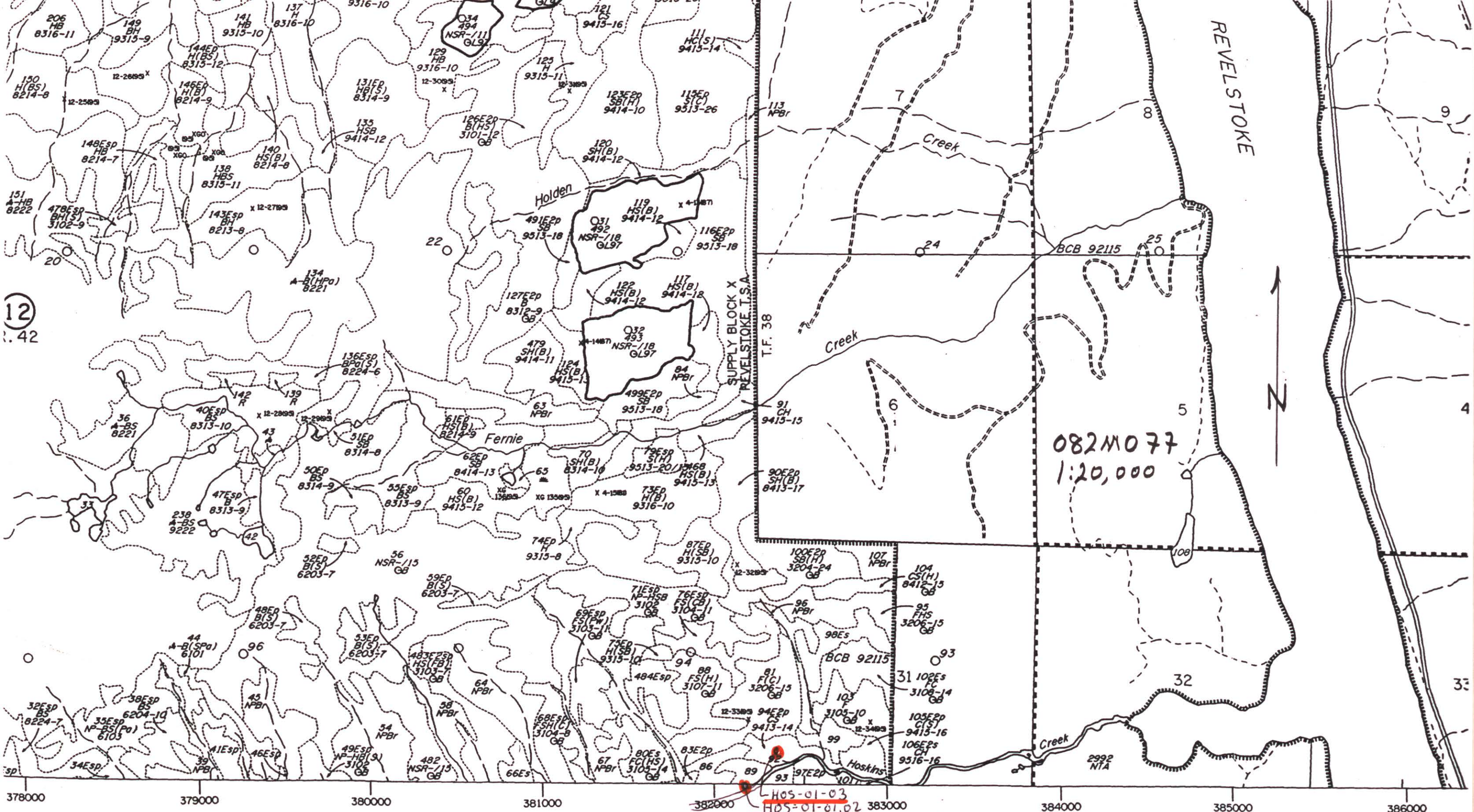
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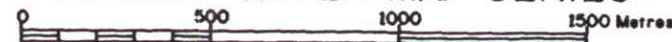


Y BRANCH  
M 1983.  
E INFORMATION  
SOURCE MAPPING  
AND PARKS.

U.T.M. GRID ZONE 11 (1975)  
BASE : PHOTOGRAMMETRIC  
DIGITIZED BY: L.M.T. DATE: JUNE 1996  
REVISED BY: REVELSTOKE DATE: JUNE 1998

TIMBER SUPPLY AREA - REVELSTOKE  
OWNERSHIP STATUS - FEB. 1996  
LABELS PROJECTED TO - 1998  
LAND DISTRICT - KOOTENAY  
F. C. DISTURBANCES UPDATED TO - OCT. 1997

# FOREST COVER MAP SERIES



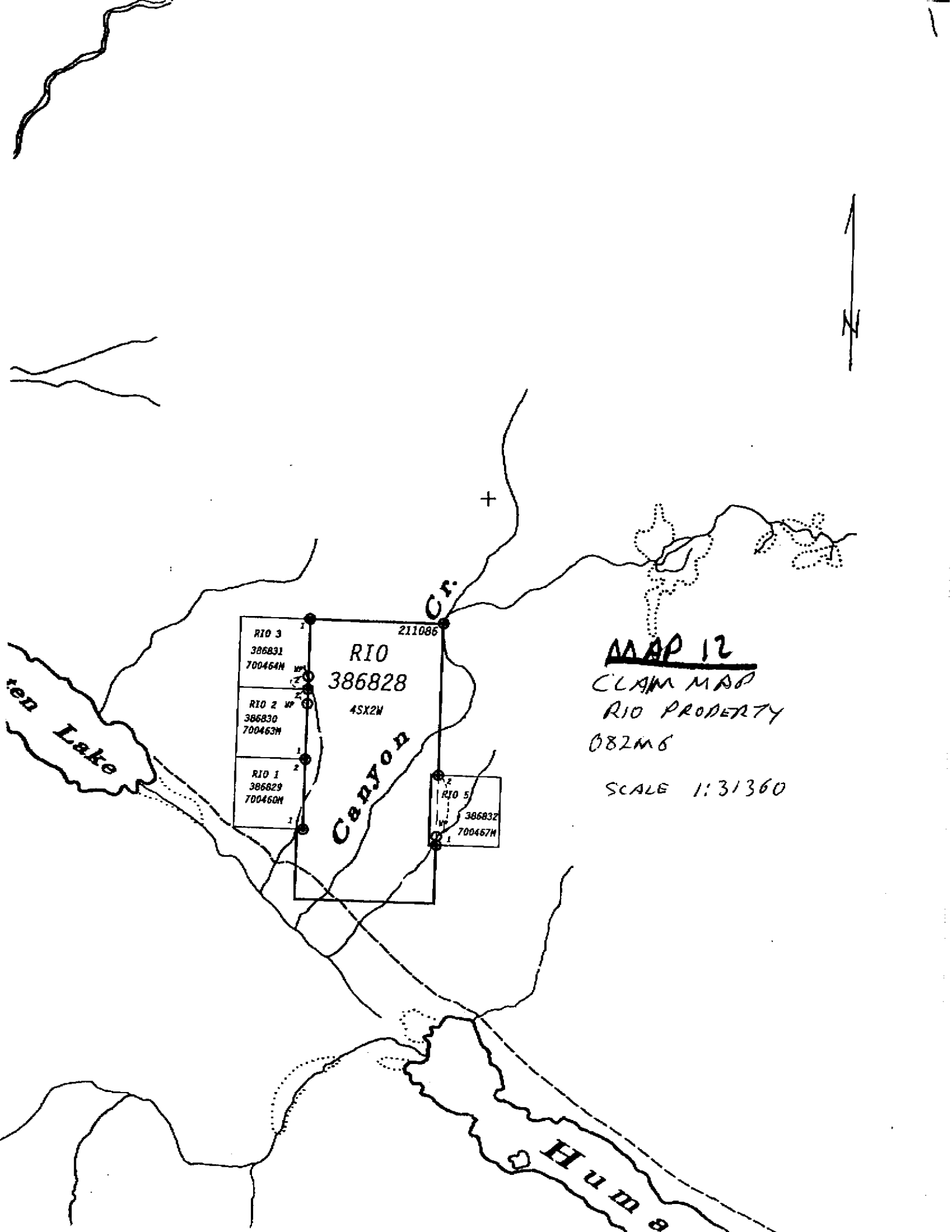
SCALE 1:20 000

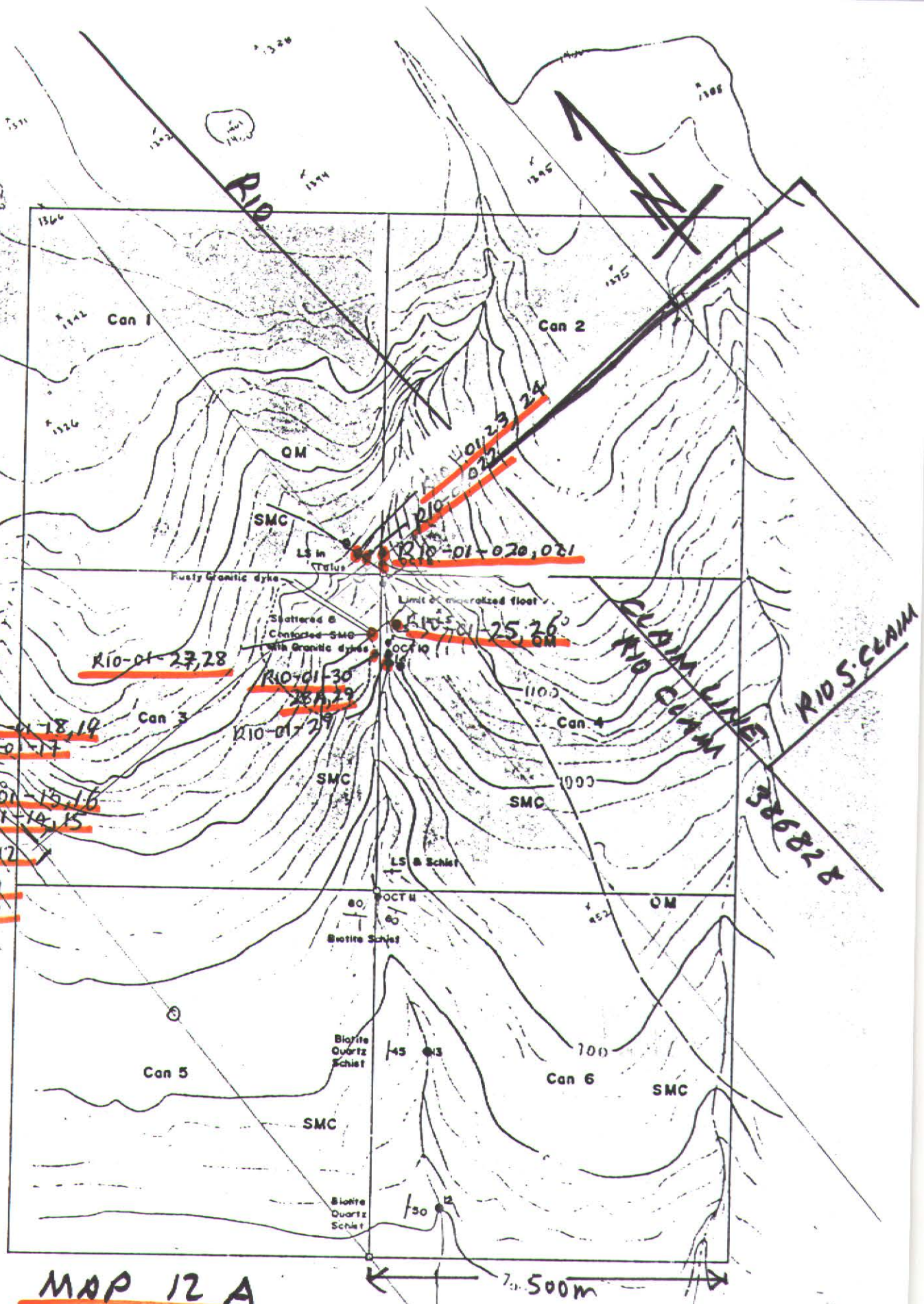
THE DATA PORTRAYED ON THIS MAP IS STORED  
IN DIGITAL FORM AND IS STRUCTURED TO SUPPORT  
THE ANALYTICAL FUNCTIONS OF THE FOREST  
RESOURCE INFORMATION SYSTEM.

PRODUCED BY  
INVENTORY BRANCH  
MINISTRY OF FORES  
PROVINCE OF BRITISH C

SERIAL : 082M077 1998-SEP-29 009

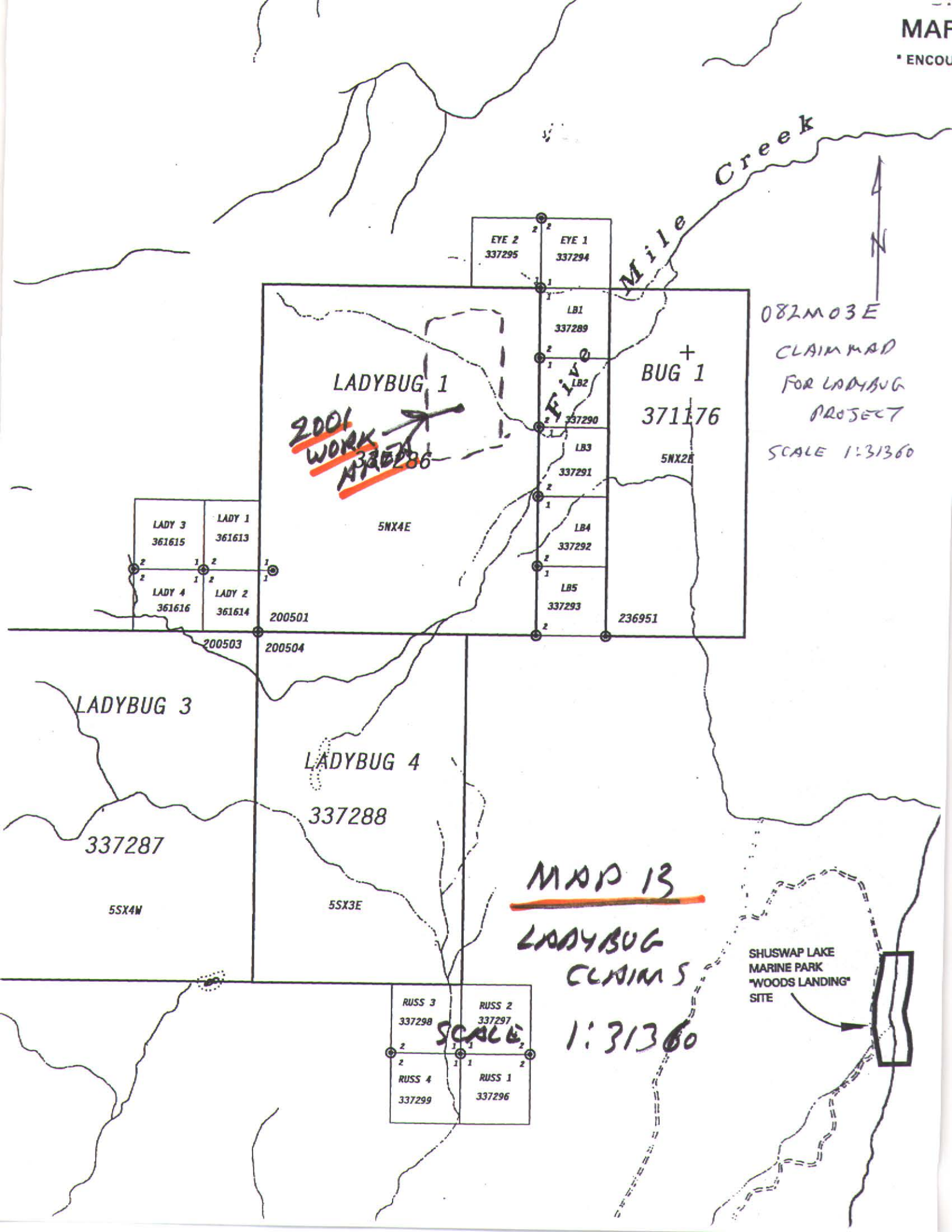




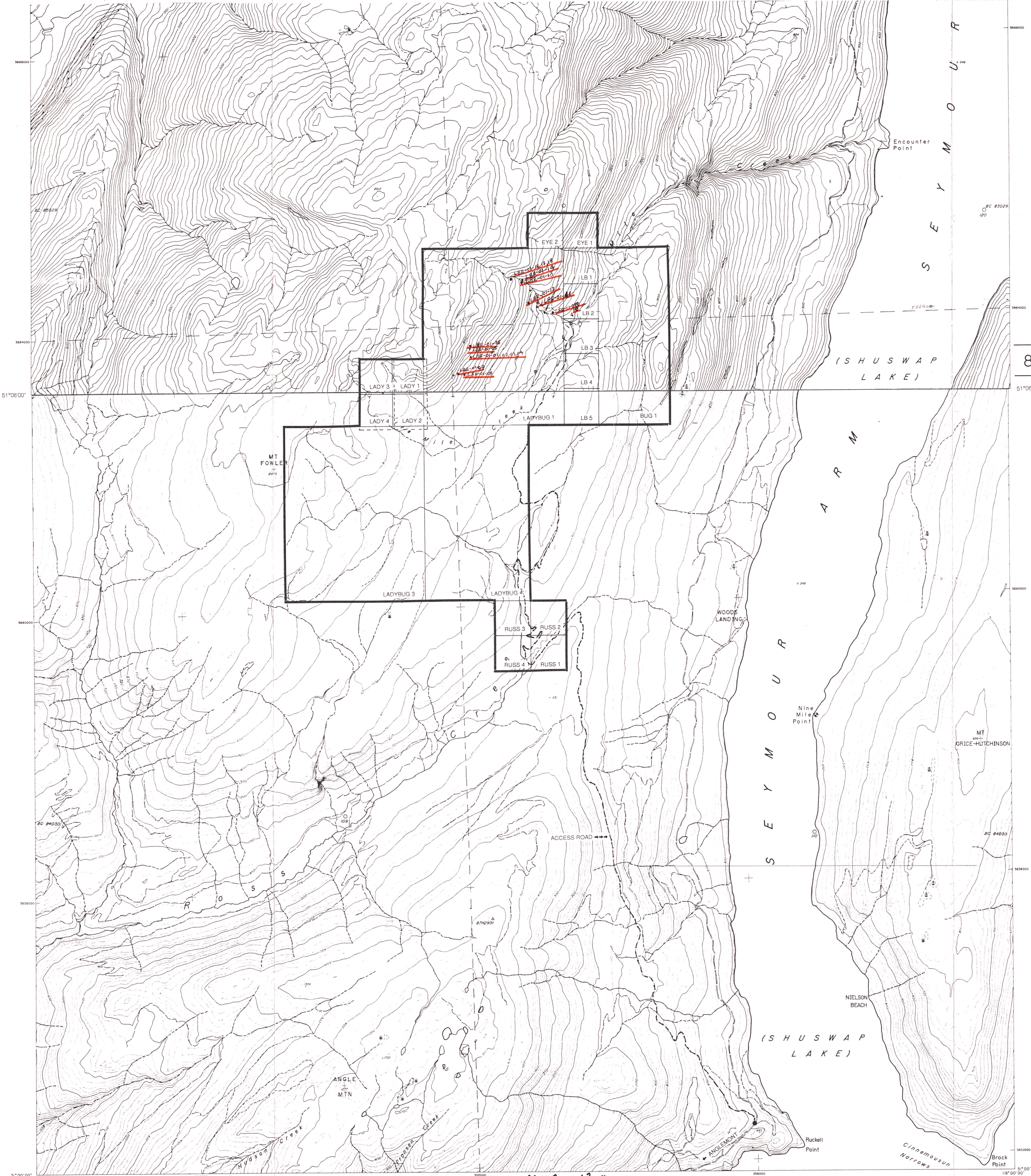


**MAP 12 A**  
 DETAIL PLAN  
 RIO PROPERTY







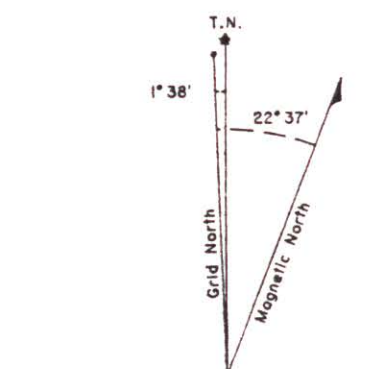


1/4 section/Foreshore lot/Subdivision/  
Rights-of-way, utilities  
Cadastral tie

For complete reference to symbols, see "Specifications and Guidelines  
for Digital Baseline Mapping at 1:20 000" published by the Ministry of  
Crown Lands.

**Notes**

Digital data and additional copies of this map are available through  
MAPS-BC, Surveys and Resource Mapping Branch, Ministry of Crown  
Lands, Parliament Buildings, Victoria B.C. V8V 1X4



Approximate Mean Declination 1990  
for Centre of Map  
Decreasing 9.1" Annually

82M.004	82M.005	82M.006
82M.004	82M.005	82M.006
82M.004	82M.005	82M.006

Adjoining Sheet Index in the  
British Columbia Geographic System.

82M.015

**LEGEND**

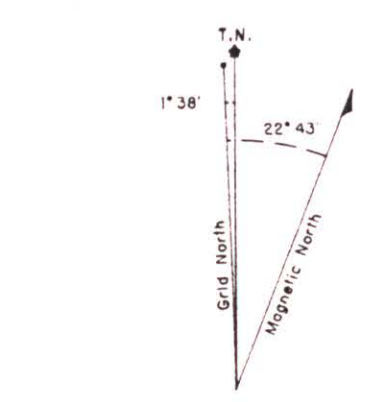
- Transportation**
- Road, paved
  - Road, loose surface
  - Road, rough
  - Trail/cut line
  - Railway, single track
  - Railway, double track
  - Railway, multi track
  - Railway, abandoned
  - Retaining wall
  - Cut/fill
  - Bridge, to scale, not to scale
  - Tunnel, to scale, not to scale
- Landmark features**
- Building, to scale, symbolised
  - Built up area
  - Fence
  - Transmission line
  - Tower/pylon
- Drainage and related features**
- High water mark, water course definite
  - High water mark, water course indefinite
  - Stream, intermittent
  - Stream, split
  - Dike
  - Flooded land
  - Swamp/marsh
  - Beaver dam
  - Pier
  - Rock/Island less than 20m
  - Water level
- Relief features**
- Contour, index
  - Contour, intermediate
  - Contour, intermediate
  - Contour, depression
  - Spot elevation
- Vegetation**
- Wooded area
- Control data**
- Monumented horizontal control point
  - Monumented vertical control point
- Cadastral**
- Survey of Federal and Provincial Crown Land
  - Sub-division of Provincial Crown Land
  - Rights of way
  - Township boundary
  - District lot, Township section line
  - Indian reserve, Foreshore of
  - Mineral claim, Coal lease, Coal licence
  - 1/4 section line in a Township, 1/4000
  - or Crown subdivision, Rights of way
  - Surveyed Cadastral Tie Point

For complete reference to symbols, see "Specifications and Guidelines  
for Digital Topographic and Cadastral Mapping at 1:20 000" published  
by the Ministry of Environment and Parks.

**Notes**

Digital data and additional copies of this map are available through  
MAPS-BC, Ministry of Environment and Parks, Victoria.

Errors and omissions should be brought to the attention of the  
Director, Surveys and Resource Mapping Branch, Ministry of Environment  
and Parks, Parliament Buildings, Victoria B.C. V8V 1X5



Approximate Mean Declination 1989  
for Centre of Map  
Decreasing 8.9" Annually

CROSS LAKE MINERALS LTD. LADYBUG PROPERTY		
TOPOGRAPHIC BASE MAP with MINERAL CLAIMS		
Drawn by: EA	Scale: 1:20 000	Date: Sep 1999
01-37		Figure 4

This map was produced in 1989 for the B.C. Ministry of Environment  
and Parks, under its Terrain Resource Information Management (TRIM)  
initiative, by Digital Mapping Group Ltd., from 1:65 000  
scale aerial photography taken in July, 1984



PROVINCE OF BRITISH COLUMBIA  
Ministry of Crown Lands  
Surveys and Resource Mapping Branch

Universal Transverse Mercator Projection  
North American Datum - NAD83  
UTM Zone 11

Land District:  
Land Title Dist.:

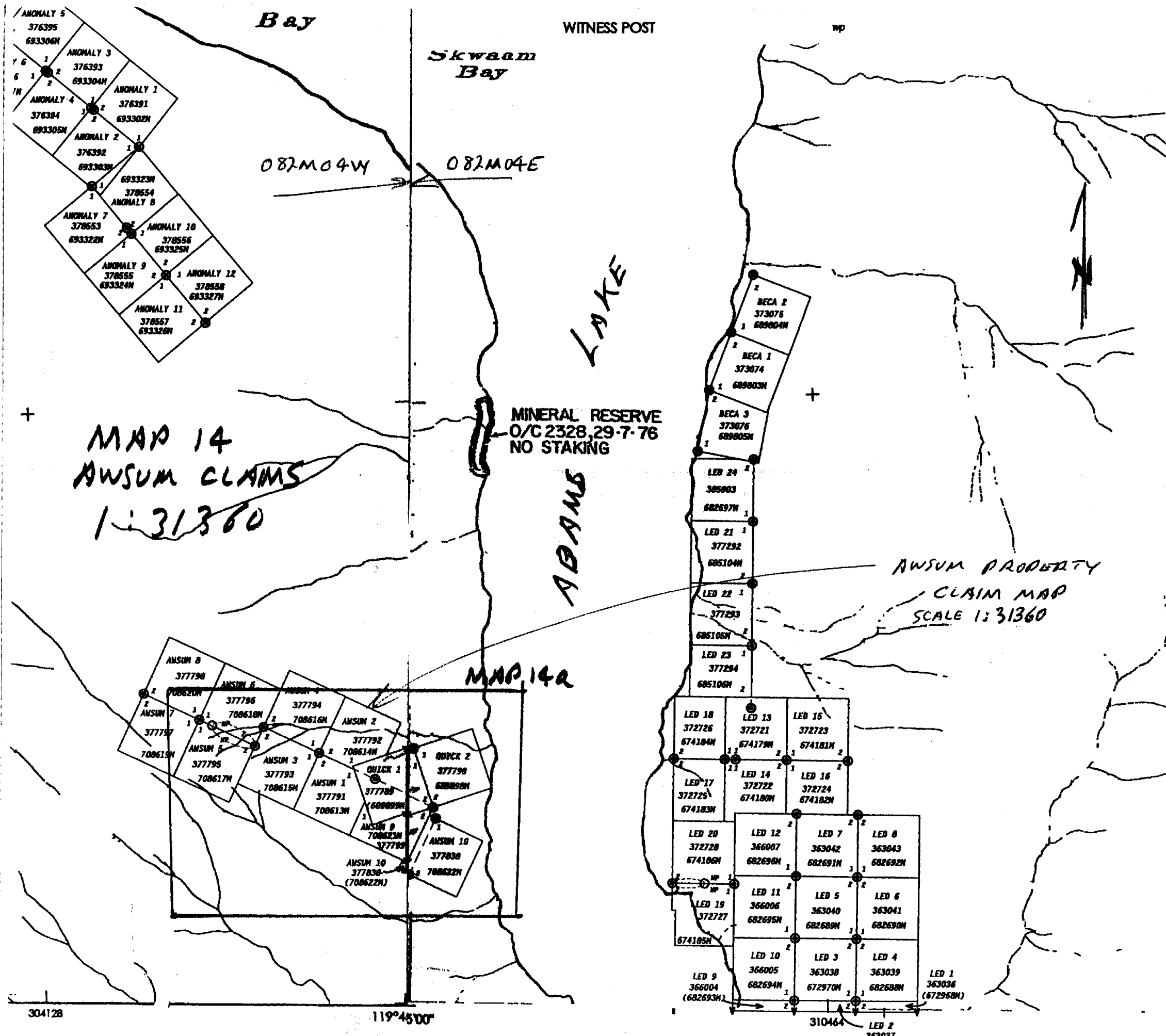
SCALE 1:20 000  
200 0 200 400 600 800 1000 1200 1400  
METRES

Contours generated from Digital Elevation Model.  
Contour interval 20 metres.  
Elevations in metres above Mean Sea Level.

DIGITAL DATA AVAILABLE	
PLANIMETRY	<input checked="" type="checkbox"/> CONTOUR
CADASTRAL	<input checked="" type="checkbox"/> DEM

82M.005 DIGITAL





# MINERALIZATION AND ALTERATION

Sulphide mineralization is mainly associated with units 3 and 4 and appears to be directly related to metasomatic alteration. In these units the dominant sulphide is pyrrhotite which occurs mainly as blebs and laminae, drawn out parallel to foliation. Local layers of massive pyrrhotite and magnetite occur. Pyrite, chalcopyrite and occasional rare sphalerite occur as fine intergrowths with pyrrhotite. Pyrite also occurs as separate blebs, cubes, veinlets associated with quartz and calcite and as fine coatings on late fractures. Some pyrrhotite is also associated with fine quartz-calcite veinlets commonly 1-2 mm thick, but which may range up to 0.5 m thick.

Gold mineralization within the skarn/sulphide zone on surface is known only from the soil geochemical survey, which showed several high gold zones. Diamond drill testing of these soil anomalies returned significant gold intersections in six holes (4,7,8,9,11,12) as summarised below.

<u>HOLE</u>	<u>FROM</u>	<u>TO</u>	<u>LENGTH</u> (m)	<u>AU</u> OPT	<u>AG</u> ppm	<u>AS</u> ppm	<u>BI</u> ppm	<u>SB</u> ppm	<u>CU</u> ppm	<u>PB</u> ppm	<u>ZN</u> ppm
258-2	88.0	88.4	0.4	0.004	14.0	806	37	15	3830	1450	15500
258-4	16.9	17.4	0.5	0.001	22.3	1871	44	<5	1374	6910	9061
	251.3	254.3	3.0	0.166	0.3	<20	272	<4	315	4	60
check	1/4 core	above int		0.172	<0.5	<5	240	<5	479	6	61
258-7	196.5	197.7	1.2	<.001	17.5	<5	40	46	843	4352	7098
	*250.0	256.0	6.0	0.027	<0.5	23	125	7	331	23	60
	*283.3	292.0	8.7	0.054	1.0	108	151	173	227	70	24
258-8	69.0	72.0	3.0	0.021	0.9	1431	8	23	66	20	79
258-9	62.5	65.5	3.0	0.013	<0.5	51	16	<5	192	7	27
	68.5	71.5	3.0	0.006	<0.5	326	19	61	33	14	43
? 258-11	58.0	59.0	1.0	0.033	<0.5	960	<2	<5	17	22	59
258-12	256.8	257.2	0.2	0.033	1.0	2000	11	<5	2373	17	19

NOTE: Analyses were done partly at Kamloops Research Assay Lab and partly at Bondar-Clegg. Where samples were initially run at Kamloops, the values in this table are from check samples run by Bondar-Clegg, and can be found on the last sheet of each drill log.

Elevation  
in  
Metres

1200

1000

800

600

400

BL

# LEGEND

## Geology

- 7 QUARTZ FELDSPAR PORPHYRY
- 6 META VOLCANIC: dark green, massive to weakly foliated, with abundant hornblende and oligoclase, minor epidote, sericite, and magnetite, rare ilmenite
- 5 QUARTZ MICA PHYLLITE
- 4 BANDED CALC-SILICATE SKARN
- 3 GARNET EPIDOTE SKARN
- 2 CALC-SILICATE PHYLLITE
- 1a PYRITIC SKARN
- 1 PHYLLITIC LIMESTONE

## Geochemistry

- 20 ppb Au

AWC-01 6.6 g/t Au / 0.08 m  
AWC-02 7.9 g/t Au / 0.14 m

SECTION THRU  
AWSUM PROPERTY  
SEE MAP 14a FOR LOCATION

Section Looking Westerly  
Az 295°

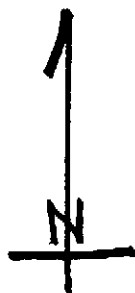
DISCOVERY

Consultants

National

Resource Explorations Ltd.





A D A M S L A K E

to Skwaam Bay

Repaired Road (CLOSED)  
-500 N

DDH-87-9  
-45°

DDH-87-8  
-45°

BL

-200 S

25W

23W

21W

19W

17W

15W

13W

11W

9W

7W

5W

3W

1W

DDH-87-6  
-45°

DDH-87-7  
-45°

Km 10

DDH-87-2  
-45°

DDH-87-4  
-45°

(10, 11, 12, 13, 14)

DDH-87-1  
-45°

CALC-SILICATE PHYLLITE,  
SKARN

PHYLLITIC LIMESTONE

Km 9

-200 S

### LEGEND

Geological Contact  
(Inferred)

Soil Geochem High  
(Cu, Pb, As, Au, Generalized)

Gold Anomaly

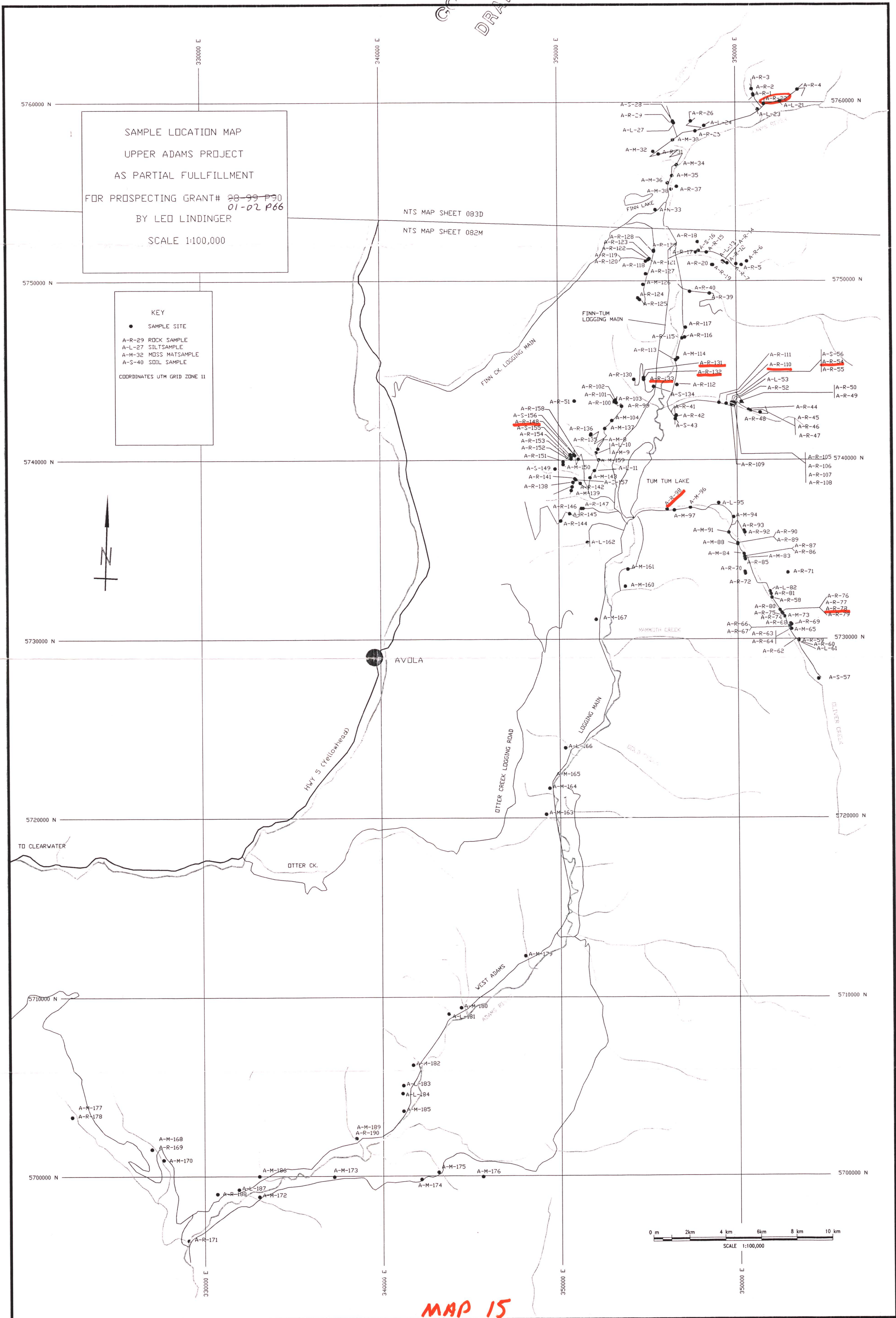
## MAP 14 R

PLAN SHOWING  
DRILL HOLES  
NWSUM PROPERTY



MAP 15

COPY  
DRAFT



MAP 15

01-37 ⑩