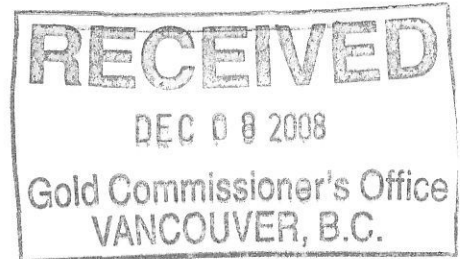


2008 United Copper Report

Claims with tenure numbers, straddling the Slocan and Fort Steele  
Mining Divisions

Rose	553655
Pass	553662
United Copper	572679
Copper	572680



Map Numbers 082F077 and 082F078

Latitude 49 deg 43' 18" N Longitude 116 deg 36' 04" W

Minfile Numbers 082FNE099, 082FNE111

Owner Jack Denny

Operators Jack Denny / Bob Denny

Author Jack Denny

Submitted

GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

30,380

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## **SUMMARY**

The 2008 program on the United Copper Group of claims was limited to two single day visits of a reconnaissance nature. There is very little available information on the United Copper Minfile occurrence. With this in mind, most of the effort was concentrated on stream sediments plus locating some old showings.

## **LOCATION AND ACCESS**

The United Copper Group of claims is East of Kootenay Lake and straddles the divide between Crawford Creek and the West Fork of the St. Mary's River in the area of Rose Pass and South into the Sawyer Creek Drainage. Access up Crawford Creek is good as far as the base of the hill below Rose Pass on the main Forest Service road. The last kilometer is quite rough and starting to get overgrown so is best traveled by ATV. An ATV can still get through Rose Pass on the old road but it is getting very overgrown and rough. The United Copper access from the 1970s drilling, which branches off the Rose Pass road on the second switchback, is completely overgrown and has to be walked from the start. This drainage has at times in the past has been known as Sawyer Creek but is currently unnamed on newer maps. Now Sawyer Creek is the drainage on the other side of Sawyer Pass. Alternate access to the North end of the property is available up the St. Mary's River.

## **PHYSIOGRAPHY**

The property ranges in elevation between approximately 1400 to 2300 meters above sea level. The valley bottoms have been partially logged and re-growth has taken over. The valley sides are very steep and the heavy timber on them is frequently cut by snow-

slide paths. The upper areas and ridges are dominated by stunted alpine growth and bare ground. The area gets an above average snowfall.

## **PROPERTY AND OWNERSHIP**

The mineral claims which comprise the United Copper Group are Rose record number 553655, Pass record number 553662, United Copper record number 572679 and Copper record number 572680. They are all held in the name of Jack Denny.

## **HISTORY**

The United Copper Group includes two Minfile occurrences, 082FNE099 (United Copper) and 082FNE111 (Rose Pass). The United Copper showing was drilled intermittently in the 1960s and 1970s but there is very limited information available. The most comprehensive information is in the 1956 MMAR a copy of which follows.

### **“United Copper**

This property, comprising sixteen located mineral claims, is held by F. W. Cartwright and S. F. Williams, both of Nelson. It is at an elevation of 6,900 feet on the west side of Cogle Pass, on the divide between Sawyer Creek, a tributary of Crawford Creek, and Blueberry Creek, a tributary of St. Mary River.

Access to the property from Crawford Bay on the Creston-Kootenay Bay Highway is by road 10 miles up Crawford Creek to the mouth of Sawyer Creek. From this point a steep pack-trail follows the north side of Sawyer Creek a distance of 4 miles to Cogle Pass.

The mineral Occurrences are quartz veins containing minor amounts of chalcopyrite and galena in laminated argillite of the

# United Copper Location Map

 **United Copper Location**

**Topographic Layers**

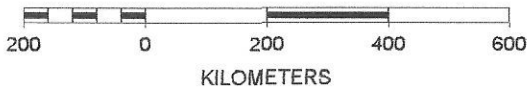
-  **Lakes 1:6M**
-  **Rivers 1:6M**

**BC Border Layers**

-  **BC Border 1:6M**



SCALE 1 : 12,321,491



# United Copper Claim Map

**Mineral Titles Layers**

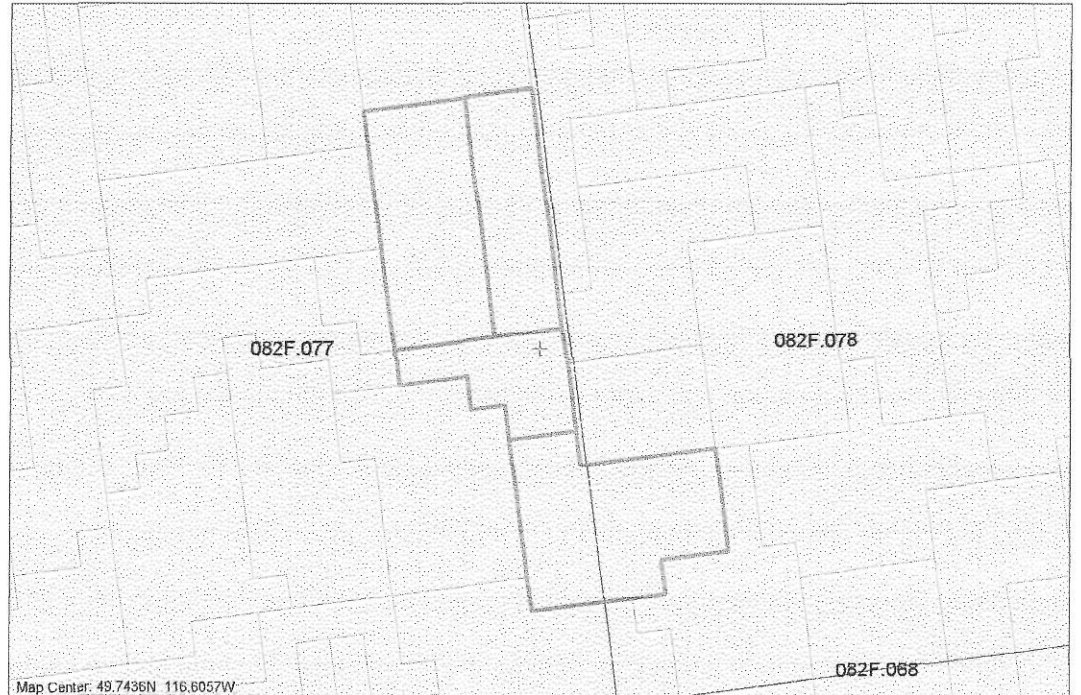
-  United Copper Tenure
-  All Mineral Tenures

**Grid Layers**

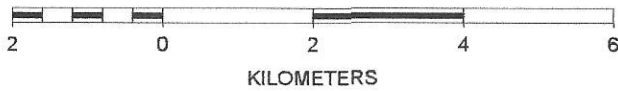
- Grid 1:20K - labels
- Grid 1:20K - outline

**BC Border Layers**

-  BC Border 1:50K



SCALE 1 : 100,401



Dutch Creek formation. The veins follow the bedding planes of the argillite.

The principal showing is a semi-continuous quartz vein, outcropping in a small stream and on a bluff face 150 yards west of the pass. This vein strikes north 30 degrees east and dips 57 degrees eastward. Surface stripping has indicated a length of approximately 1,000 feet. At one exposure it was noted that the vein was not continuous, and, surface stripping is not complete, it is possible that other breaks may occur. At its widest point the vein is 8.2 feet wide. It pinches to a width of 1 foot at the north end and to a few inches at the south end. The average width is 3.5 feet. Six samples assayed as follows:-

- 1) Creek cut 180 feet north of crosscut, width 0.65 ft, gold 0.03 oz/t, silver 0.7 oz/t, copper 0.047%
- 2) 60 feet north of crosscut, width 8.2 feet, gold trace, silver 0.1oz/t, copper 0.75%, lead 0.05%
- 3) South face of crosscut, width 6.4 feet, gold 0.01 oz/t, silver trace, copper 0.43%, lead trace
- 4) 25 feet south of No. 3, width 3.0 feet, gold trace, silver 0.2oz/t, copper 1.2%, lead trace
- 5) 50 feet south of No. 3, width 4.5 feet, gold trace, silver trace, copper 0.51%, lead 0.18%, zinc 0.04%
- 6) 75 feet south of No. 3, width 3.6 feet, gold nil, silver 0.9 oz/t, copper 0.45%, lead 0.29%, zinc 0.04%

Approximately 1,000 feet west of the upper vein and 500 feet lower in elevation, surface stripping has been done at intervals on a quartz vein system parallel to the main vein. No samples were taken as the owners reported that the assay values were low.

Parallel to and approximately 500 feet west of the second vein system a series of open-cuts and five small drifts have been made on a similar occurrence of semi-continuous quartz veins which

extend nearly half a mile across a basin. Where exposed the veins are short and irregular. Widths vary from 2 inches to 2 feet along strike lengths of 5 feet. Mineralization is also irregular, but with larger local concentrations of chalcopyrite than occur in the main vein. Because of these irregularities and the large intervals between exposures, representative sampling did not appear feasible.”

The references to existing workings indicate that this is an older property, but no documentation of that has yet been found.

The Rose Pass showings were originally staked in the eighteen-nineties and have been held by several different owners since.

The workings consisted of two shallow open cuts about 1,700 feet apart plus a crosscut adit of unknown length. The showings were re-staked in 1936 but there is no report of work at that time. Rose Pass Mines Ltd in about 1966 acquired the Rose Pass property, comprising the Silver 5-10 claims, and staked the Vi 1-8 claims. An induced potential survey was apparently carried out over the property. The company name was changed in 1974 to Range Industries Ltd. The showings were held in 1980 as the KJ claim (9 units) by Gerhardi Holdings Ltd, of Nelson. Geological mapping and a geochemical rock sample survey was carried out.

More recently the Rose Pass Showing was held as the Bob and Rose claim group. From 1990 to 1992 these claims were soil sampled with a follow-up diamond drill hole.

In 1910 the Copperhead group of claims, South of Rose Pass and East of the Humbolt, were surveyed and they were Crown Grants for a time. They have all since reverted and there seems to be no



available information on them. These claims were on the Western part of the current Copper claim and the South part of the current Rose claim.

The claim group was covered by the East Kootenay Geophysical Survey, Open File 1996-23.

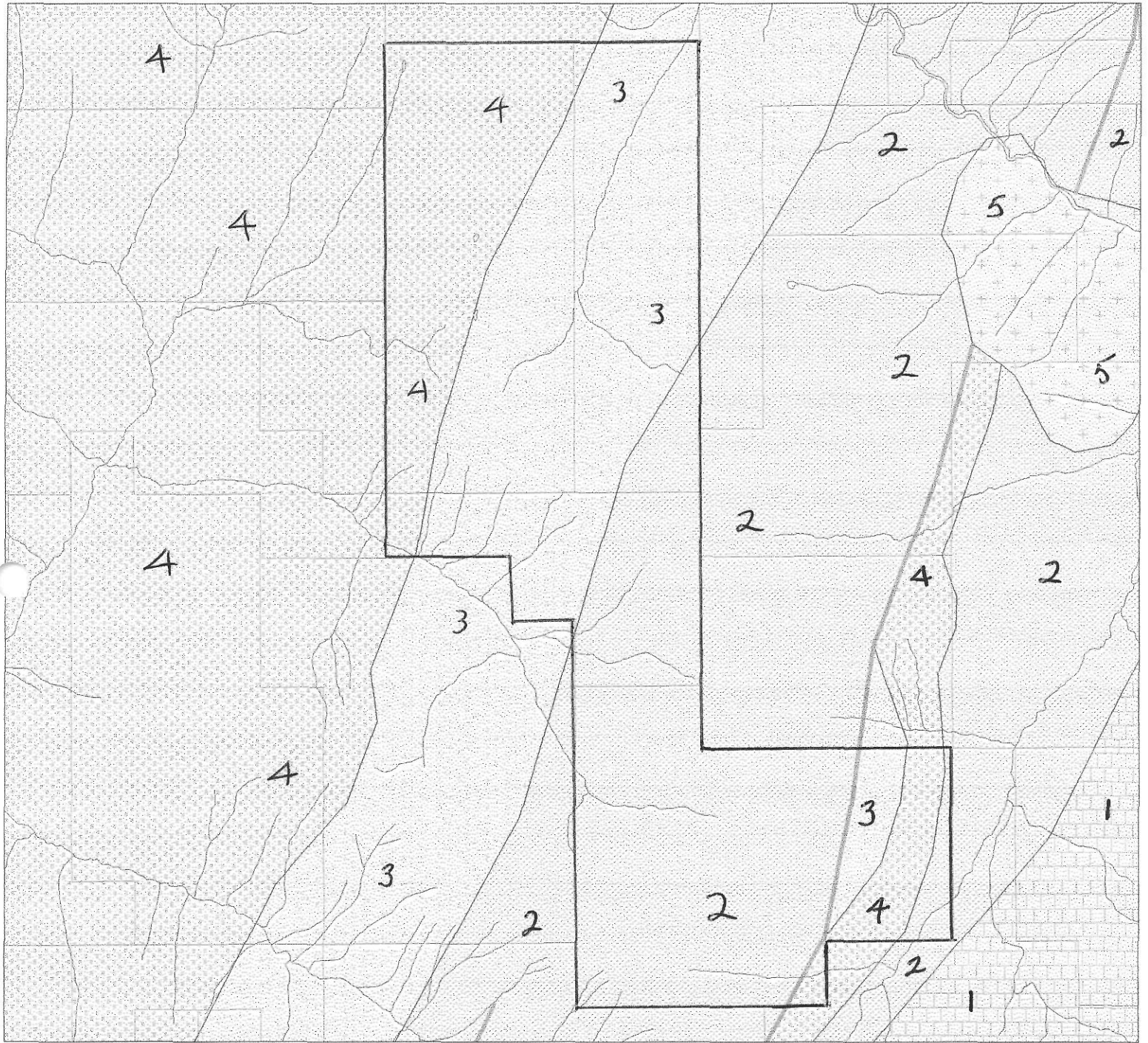
## **Geology**

In the Crawford Bay - Rose Pass area, intensely deformed Precambrian metasedimentary clastic and carbonate rocks of the Dutch Creek, Mount Nelson, Toby and Horsethief Creek Formations form a linear northeast trending belt. Each of these formations occurs on the property. Cretaceous quartz monzonites to diorites are in part responsible for the levels of deformation and metamorphism evident in the Rose Pass area. Foliation in the sediments follows batholith margins with metamorphic and deformational intensity increasing towards the batholith contacts. The contact zones are generally gneissic with included lineated fragments of metamorphosed sediments. Numerous minor felsic and lamprophyric intrusions are prevalent throughout the region, typically in silicified structures which parallel foliation; their occurrence is commonly coincident with galena, sphalerite and tetrahedrite.

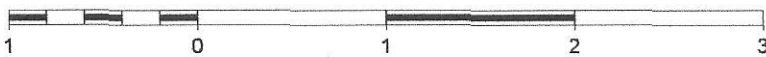
## **Mineralization**

At the United Copper showing quartz veins and inclusions containing chalcopyrite, sphalerite, galena, pyrite and pyrrhotite occur along a shear zone in foliated zones in chlorite schist or laminated argillite. According to the Minfile report bornite with silver minerals occurs as replacements in limestone, but this has

# United Copper Geology



SCALE 1 : 40,000



KILOMETERS

CRETACEOUS  
UPPER  
PROTEROZOIC

- 5 SAWYER STOCK,  
granodiorite
- 4 Horse Thief Creek  
Group, coarse clastic  
sedimentary rocks

Middle  
PROTEROZOIC

- 3 Mount Nelson Formation  
quartzite, quartz arenite  
sedimentary rocks
- 2 Dutch Creek Formation  
undivided sedimentary rocks
- 1 Kitchner Formation  
dolomitic carbonate

yet to be seen by the author. Most of the showings are still to be rediscovered as there is a heavy alder growth in the valley. The Rose Pass showing is veining in the schist, following the schistosity. The veining is also adjacent to a granite porphyry dyke. The mineralization is sphalerite and galena with minor pyrite and chalcopyrite carrying values in silver and tin. Rice thought that the tin mineral was likely stannite. Further research has uncovered the following article named Notes and News, Mineral Occurances in Western Canada by R. M. Thompson of University of BC.

“Stannite. Rose Pass Prospect, Ainsworth M. D., B. C. (Rice, Geol. Surv. Canada, Mem. 228, 73, 1941). This prospect and the nearby Humbolt Claim are situated near the summit of Rose Pass close to the Crawford Bay-Rose Pass trail, 5 miles from the end of the Crawford Bay (on Kootenay Lake) road. The deposits consist of quartz veins in closely folded black slates. The principal minerals reported are galena, sphalerite, chalcopyrite, pyrite, and probably stannite or a mineral closely resembling it. Polished sections of material from the Rose Pass prospect kindly supplied by Dr. H. M. A. Rice show the suspected stannite with its usual microscopic properties, inter-grown with sphalerite, chalcopyrite, pyrite and galena. The identity of the stannite was confirmed by comparing the x-ray powder photograph with that of stannite from type localities.”

Also of interest is the presence of the large pronounced stratabound lead zinc anomaly centered at the bottom of the Horsethief Creek formation.

## **Current Program and Results**

The 2008 program was reconnaissance in nature and consisted of eight stream sediments and three grab samples. One grab sample was collected from the Rose Pass showing and one stream sediment was collected above the influence of the showing to test for possible mineralization to the West. Nothing of interest was anomalous in the stream sediment, but the grab sample showed significant zinc, lead and silver plus anomalous copper, tin, cadmium and antimony.

The headwaters of the United Copper valley (unnamed but occasionally referred to in the past as Sawyer Creek) had a small (seven silt) sampling program done on the sediments of the tributaries. These samples returned mostly low values in all elements. The most interesting sample was UC08-03 which had slightly anomalous copper and lead plus a low level platinum anomaly of 11ppb. Two grab samples were collected from an old trench located in the head of the valley. The significant results from these samples were for copper and silver. The remaining tributaries of this valley shown on the map which drain the property, were better described as dry slide chutes where they were crossed, so no sample was taken.

## **Assay Procedures**

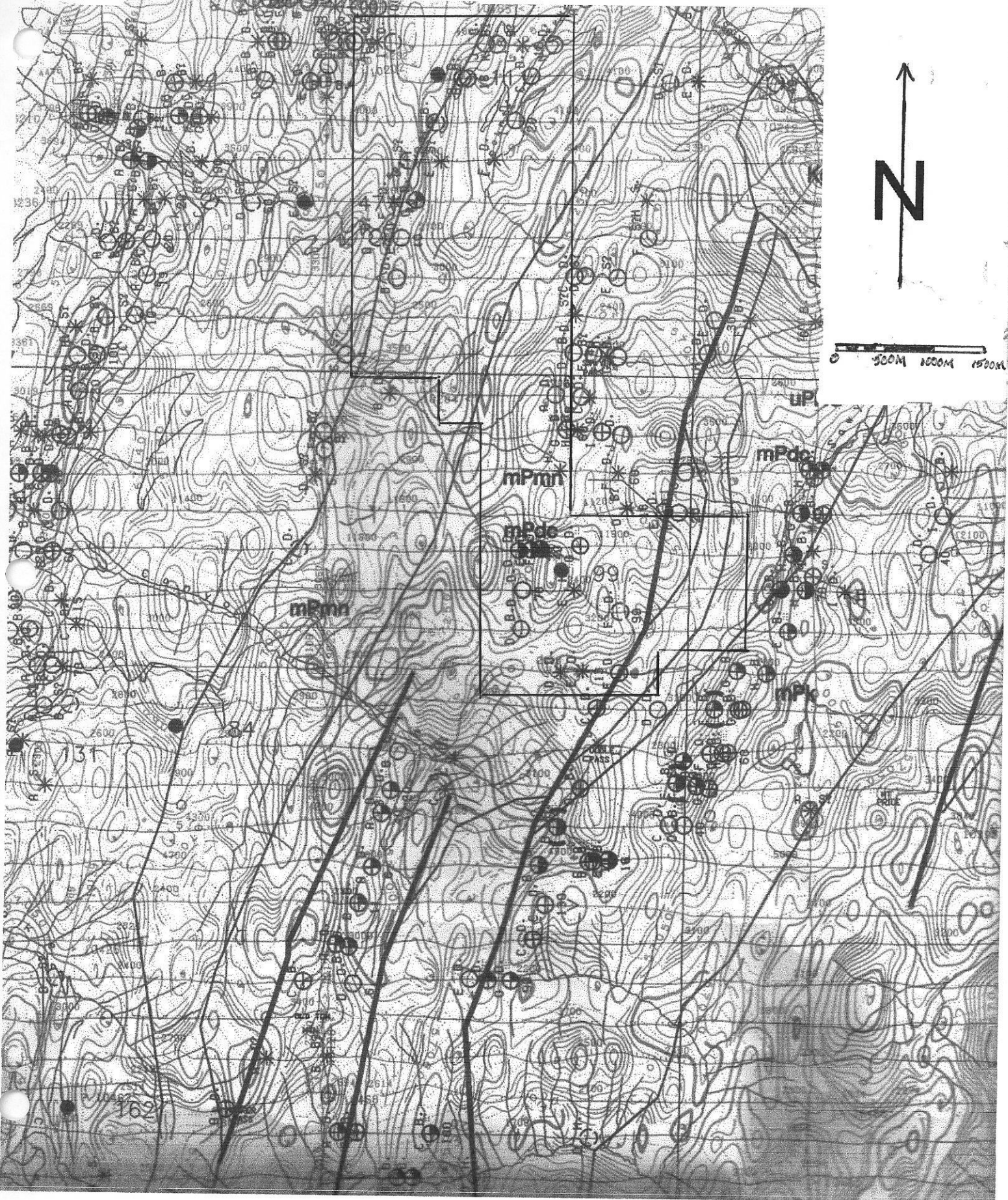
Assays were performed by Acme Labs of Vancouver with all samples being analyzed by their Group 1F-MS procedure for the full suite of 53 elements. This is an Aqua Regia digestion on a 0.5g split followed by ICP Mass Spectrometry. Rock samples were prepared by Acme's R150 procedure of crushing to 10 mesh and

# UNITED COPPER

From

AEROMAGNETIC TOTAL FIELD MAP & CONDUCTORS

EAST KOOTENAY GEOPHYSICAL SURVEY OF 1996-23



pulverizing to 200 mesh. Stream sediments were prepared by Acme's SS80 procedure of screening to eighty mesh. Sample RP08-01 was further analyzed with the high grade procedure 7TX which is a hot four acid digestion on a 0.5g split followed by ICP Emission Spectrometry and ICP Mass Spectrometry.

### **Conclusions and Recommendations**

The stream sediment program was only moderately successful, but the low level anomalies discovered may be significant and must yet be followed up with prospecting initially. Values of rock samples collected demonstrate that in this area mineral potential is not necessarily reflected in stream sediments. This may be partly due to the steep valley sides. The entire property remains prospective as there is much left to do to properly cover the ground. Time should be spent investigating the cluster of geophysical anomalies (conductors and mag anomaly) appearing in the East Kootenay Geophysical Survey (GSC 1996-23) in the area of the United Copper.

## Bibliography

EMPR AR 1946-149; 1956-88; 1968-262

EMPR GEM 1970-461; 1971-406; 1972-55; 1973-71

EMPR EXPL 1976-39; 1977-E49; 1978-E61; 1979-68

EMPR ASS RPT 8915, 20681, 22097

EMPR Map Place

EMPR Minfile 082FNE099, 082FNE111

GSC MAP 1864A Reesor J. E., Geology of Kootenay Lake 1996

GSC MEM 228-73 Rice, Nelson Map Area, East Half 1941

GSC Open File 1996-23 East Kootenay Geophysical Survey

Notes and News, Mineral Occurances in Western Canada circa  
1949 by R. M. Thompson

## Statement of Costs

Jack Denny August 8, 24, ½ September 10	
2.5 Man Days @ \$275/Day	687.50
Bob Denny	
2 Man Days @ \$275/Day	550.00
2 Days truck @ \$75/Day	150.00
2 Days ATV @ \$50/Day	100.00
Assaying and shipping	385.82
Report writing	300.00
	Total
	\$2173.32

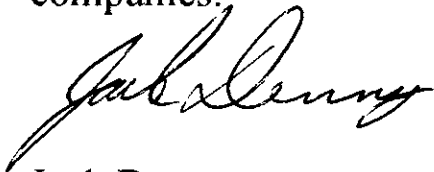
## Statement of Qualifications

I, Jack Denny of Box 325, Salmo, B.C., V0G 1Z0 certify that:

1. I am a professional prospector and I have worked in mining exploration continuously since 1971 with short stints in the mining industry, mostly in British Columbia.

2. Education 1971-72 Geology program Selkirk College  
1970 + 76 + 87 Chamber of Mines of Eastern BC Prospecting Course  
1974 Open Pit Mining, BC Mining School, Rossland BC  
1988 BC Dept of Mines Advanced Prospecting Course  
Numerous short courses in various aspects of Mining Exploration

3. Experience I am a self employed Prospector and have been since 1975 and I also work as a contract mining explorationist in all aspects of the Exploration Industry for a wide variety of companies.



Jack Denny



## **Appendix 1**

### **Sample Descriptions and Locations**

Locations are all NAD 83 Zone 11 and taken with a Garmin GPSmap76CSx.

#### **Rocks**

**UCR08-01** old trench at 0528258E 5507688N el 1992M  
Chip sample across 1M of lensey quartz veining in rusty schist. Quartz is sugary and vuggy with grey gouge. Chalcopyrite occurs mostly on the vein selvages. Zone appears to be at least 2M wide but is poorly exposed. Quartz veining strike 020 deg AZ dip is vertical

**UCR08-02** Same trench as UCR08-01  
Grab sample of leached, vuggy quartz with malachite and chalcopyrite.

**RP08-01** Creek showing referred to in Minfile no. 082FNE111  
Location is 0527557E 5512934N, about 25M northerly from an old shaft. Grab sample of veining 30 – 60 cm wide in schist and following the schistosity at 030 deg AZ dip 60 deg West with sphalerite and galena plus minor pyrite and chalcopyrite.

#### **Stream Sediments**

**RP08-02** Location 0527524E 5512921N

**UC08-01** Location 0528358E 5508212N

**UC08-02** Location 0528408E 5508188N

**UC08-03** Location 0528393E 5507968N

**UC08-04** Location 0528316E 5508350N

**UC08-05** Location 0528282E 5508400N

**UC08-06** Location 0527745E 5508836N

**UC08-07** Location 0527448E 5509396N

**Appendix 2**  
**Assay Certificates**



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Report Date:

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2 of 2

Part 1

## CERTIFICATE OF ANALYSIS

VAN08009595.2

Method	WGHT	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	
UCR0801	Rock	1.06	0.72	7744	149.3	62.3	4533	92.6	1673	215	6.08	5063	0.3	128.0	0.6	6.8	1.09	6.81	19.72	<2	0.35
UCR0802	Rock	2.33	0.56	>10000	170.9	215.3	6193	84.4	1406	828	9.54	3599	0.5	159.6	0.7	5.1	5.23	4.99	14.93	<2	0.17
RP08-01	Rock	3.34	1.70	3839	>10000	>10000	>100000	7.1	7.7	183	2.61	54.4	0.9	28.3	3.1	5.1	956.2	102.4	2.70	<2	<0.01

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CERTIFICATE OF ANALYSIS

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Method	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	
MDL	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	
UCR0801	Rock	0.001	1.0	5.5	0.45	8.7	0.001	<20	0.27	0.002	<0.01	1.8	4.0	0.03	1.55	11	24.6	0.28	0.9	0.04	<0.1
UCR0802	Rock	0.031	2.5	7.1	0.18	15.7	<0.001	<20	0.19	0.003	0.02	<0.1	5.6	0.03	0.86	5	19.3	0.35	0.8	0.10	0.1
RP08-01	Rock	0.007	2.5	9.6	0.01	23.2	<0.001	<20	0.12	0.004	0.09	0.8	0.2	0.10	6.32	1511	7.0	1.43	3.6	0.18	<0.1

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CERTIFICATE OF ANALYSIS VAN08009695 2

Method	Analyte	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	7TX	7TX	7TX	7TX	7TX	7TX	
		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Mo	Cu	Pb	Zn	Ag	Ni
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.5	0.5	0.5	5	0.5	0.5
UCR0801	Rock	<0.02	0.06	0.4	2.3	<0.05	0.1	2.64	2.3	1.10	<1	<0.1	3.4	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
UCR0802	Rock	<0.02	0.04	1.0	5.4	<0.05	0.2	5.46	4.9	2.01	<1	<0.1	1.4	<10	<2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
RP08-01	Rock	0.03	0.17	3.4	>100	<0.05	1.0	0.70	4.6	48.68	<1	0.2	0.5	*	<2	1.8	4279	51562	158469	144.8	7.9

20

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CERTIFICATE OF ANALYSIS VAN08009595 2

Method	Analyte	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na
Unit		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%
MDL		1	5	0.01	5	0.5	0.5	5	0.5	0.5	0.5	10	0.01	0.01	0.5	1	0.01	5	0.001	0.01	0.01
UCR0801	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
UCR0802	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
RP08-01	Rock	6	143	2.54	40	0.9	2.6	8	832.9	115.5	2.1	17	0.01	<0.01	9.6	28	0.09	173	0.041	1.62	0.02

21

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**Page:** 2 of 2 Part 5

CERTIFICATE OF ANALYSIS VAN08009595.2

Method	7TX	7TX	7TX	7TX	7TX	7TX	7TX	7TX	7TX	7TX	7TX	7TX	7TX	7TX
Analyte	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf
Unit	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
MDL	0.01	0.5	0.5	5	0.5	0.5	0.5	0.5	5	1	0.5	0.5	0.5	0.5
UCR0801	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
UCR0802	Rock	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
RP08-01	Rock	0.89	3.6	15.4	21	225.9	1.3	1.9	<0.5	<5	2	5.2	6.0	38.6

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This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.





# AcmeLabs

ACME ANALYTICAL LABORATORIES LTD.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client:

**Denny, Jack**

Box 325

Salmo BC V0G 1Z0 Canada

Project:

None Given

Report Date:

October 09, 2008

Page:

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Part 1

## CERTIFICATE OF ANALYSIS

VAN08009594.1

	Method Analyte Unit MDL	WGHT	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
UC08-01	Silt	1.57	1.21	13.82	26.52	73.5	59	15.3	11.6	1639	2.77	10.4	0.7	<0.2	2.3	6.7	1.13	0.30	0.41	10	0.11
UC08-02	Silt	1.27	1.04	14.93	30.91	93.4	48	16.8	8.7	1134	2.45	10.9	0.9	<0.2	3.0	8.2	1.33	0.34	0.38	9	0.14
UC08-03	Silt	0.89	1.30	39.74	63.77	91.7	104	27.3	19.7	713	3.69	23.4	1.8	1.5	8.8	8.0	0.51	0.66	0.97	7	0.08
UC08-04	Silt	0.95	1.10	8.46	25.74	56.5	71	14.0	13.4	1213	2.18	10.0	0.5	<0.2	1.7	6.6	0.92	0.26	0.29	6	0.10
UC08-05	Silt	1.02	0.86	8.02	19.26	122.0	65	33.4	7.9	2726	2.85	10.7	0.7	<0.2	2.2	10.5	1.29	0.23	0.22	5	0.16
UC08-06	Silt	0.62	0.93	14.75	17.02	48.5	208	10.5	4.8	285	1.37	4.5	14.7	0.2	1.0	10.2	0.44	0.24	0.20	9	0.36
UC08-07	Silt	0.77	1.17	29.84	24.73	83.4	81	24.8	16.7	944	2.50	20.3	4.7	1.9	2.3	8.4	0.72	0.51	0.54	9	0.26
RP08-02	Silt	0.67	1.13	27.72	42.55	79.3	166	40.3	19.8	1000	2.72	17.6	2.8	<0.2	2.7	9.1	0.82	0.33	0.50	7	0.27

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## CERTIFICATE OF ANALYSIS

VAN08009594.1

	Method	1F																			
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge
	Analyte	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
	Unit																				
	MDL	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
UC08-01	Silt	0.034	10.1	8.3	0.31	28.2	0.009	<20	0.78	0.002	0.03	<0.1	0.7	0.10	0.02	15	0.5	0.04	2.5	1.50	<0.1
UC08-02	Silt	0.039	14.2	10.3	0.35	25.5	0.010	<20	0.79	0.003	0.04	<0.1	0.8	0.11	0.02	10	0.7	0.07	2.5	2.16	<0.1
UC08-03	Silt	0.054	24.6	10.0	0.39	16.0	0.006	<20	0.91	0.004	0.04	<0.1	1.0	0.08	0.03	18	0.7	0.10	2.6	1.99	<0.1
UC08-04	Silt	0.032	7.6	9.5	0.26	21.3	0.005	<20	0.66	0.004	0.02	<0.1	0.6	0.07	0.03	12	0.5	<0.02	2.4	0.91	<0.1
UC08-05	Silt	0.031	8.7	7.4	0.26	35.0	0.006	<20	0.65	0.003	0.02	<0.1	0.7	0.06	0.03	14	0.8	<0.02	2.1	1.40	<0.1
UC08-06	Silt	0.035	11.9	10.7	0.22	8.5	0.006	<20	0.53	0.002	0.02	<0.1	0.8	0.03	0.04	12	1.2	<0.02	1.9	1.47	<0.1
UC08-07	Silt	0.046	13.7	13.1	0.24	30.7	0.006	<20	0.77	0.004	0.04	<0.1	0.9	0.08	0.03	25	0.6	0.03	2.1	1.73	<0.1
RP08-02	Silt	0.047	25.5	13.2	0.38	26.1	0.016	<20	1.25	0.003	0.03	<0.1	1.3	0.08	0.03	21	1.0	0.05	3.1	1.00	<0.1

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www.acmelab.com

Client:

**Denny, Jack**

Box 325

Salmo BC V0G 1Z0 Canada

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Page:

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Part 3

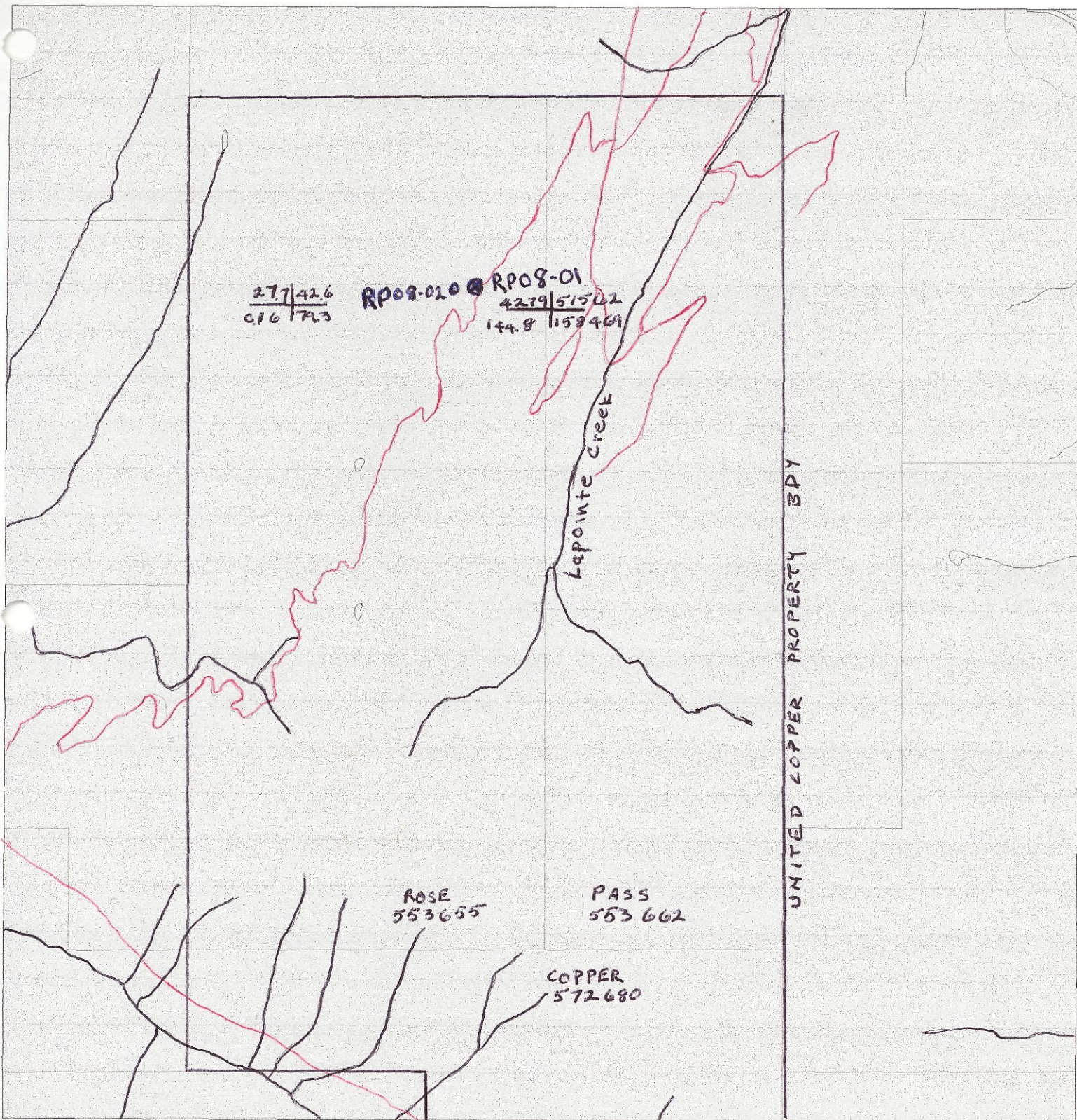
## CERTIFICATE OF ANALYSIS

VAN08009594.1

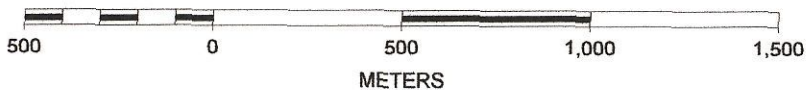
Method	Analyte	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F	1F
		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb
MDL		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10
UC08-01	Silt	<0.02	0.18	5.8	0.1	<0.05	0.1	3.74	22.8	<0.02	<1	0.1	9.8	<10
UC08-02	Silt	<0.02	0.31	6.5	0.1	<0.05	0.1	6.33	23.0	0.02	<1	0.1	11.7	<10
UC08-03	Silt	<0.02	0.12	5.7	0.2	<0.05	0.4	8.33	53.8	0.07	<1	0.2	14.0	<10
UC08-04	Silt	<0.02	0.13	4.7	0.1	<0.05	0.1	2.18	18.5	<0.02	<1	0.1	9.1	<10
UC08-05	Silt	<0.02	0.14	3.0	0.3	<0.05	0.3	2.86	15.5	<0.02	<1	0.1	10.7	<10
UC08-06	Silt	<0.02	0.16	3.3	0.1	<0.05	0.3	6.03	11.9	<0.02	<1	0.3	7.1	<10
UC08-07	Silt	<0.02	0.20	7.1	0.2	<0.05	0.2	5.78	22.3	0.03	<1	0.3	9.5	<10
RP08-02	Silt	<0.02	0.47	3.7	0.3	<0.05	0.5	14.58	47.4	0.03	<1	0.5	21.6	<10

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# United Copper Sampling North



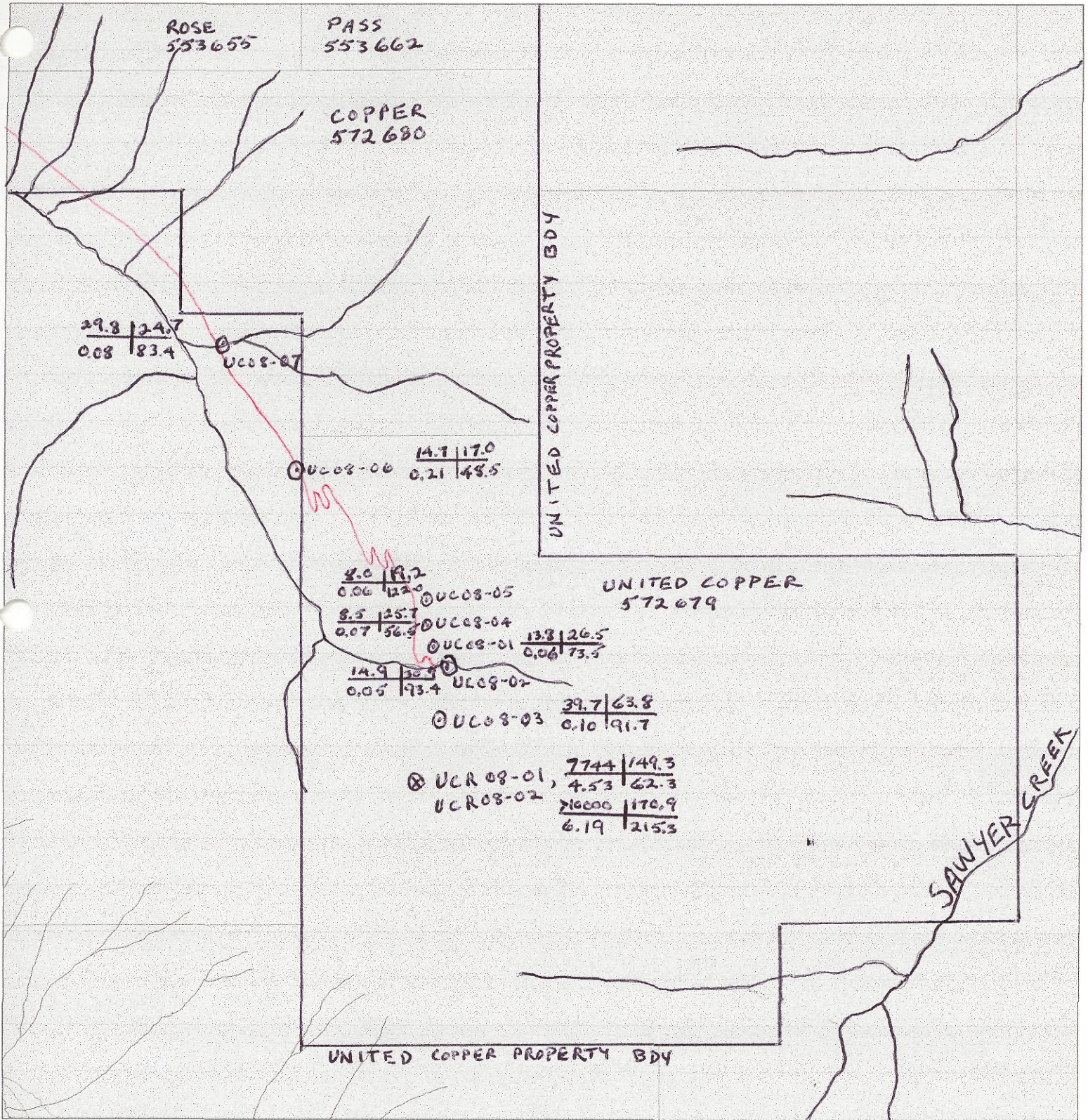
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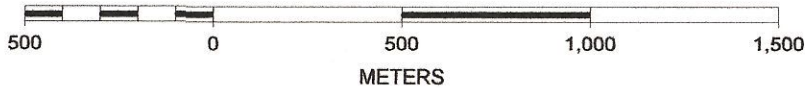
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  - ⊙ Stream Sediment
  - ~ Road
- $\frac{Cu}{Ag} | \frac{Pb}{Zn}$  Values in ppm



# United Copper Sampling South



SCALE 1 : 20,000



- ⊗ Rock Sample
  - ⊙ Stream Sediment
  - Road
- $\frac{Cu}{Ag}$  |  $\frac{Pb}{Zn}$  values in ppm

