

GEOLOGICAL AND GEOCHEMICAL REPORT

ON THE

Val 1 & 3 Claims

Atlin Mining Division

Located about 5 Kilometres Northeast

Tatsamenie Lake and 35 Kilometres Northwest

of the Sheslay Airstrip

NTS 104K/8W

Lat. $58^{\circ}27'N$

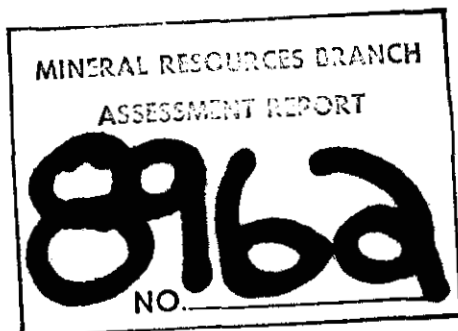
Long. $132^{\circ}17'W$

Owned and Operated By

Utah Mines Ltd.

P. A. Christopher, Ph.D., P.Eng.
Senior Geologist
Utah Mines Ltd.

Vancouver, B.C.
November, 1980



P. A. Christopher

A handwritten signature in cursive script, matching the name in the stamp above.

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SUMMARY

A regional prospecting program in the Stikine Arch area has led to the restaking of the 'Cu showing', a structurally controlled zone with chalcocite, bornite, molybdenite and precious metal mineralization. Surface rock sampling of a sheared zone about 50 metres wide provided a 30 foot chip sample grading 1.18% copper, 1/3 oz/ton silver and .03 oz/ton gold. Surface rock sampling provides some indication of grade but leaching is considered to have reduced the overall grade of the sheared zone.

The 'Mo showing', a new molybdenum occurrence has also been located on the same property. A 300 metre long copper-molybdenum soil anomaly is associated with this prospect but rock geochemical values from the 'Mo showing' are generally low.

Further work is required to test the potential of both the 'Cu showing' and 'Mo showing'.

INTRODUCTION

The Val 1 (20 units) and Val 3 (20 units) claims were staked to cover the Cu (copper-molybdenum) and the Mo (molybdenum-copper) showings (Figure 1). Prospecting of creeks in the area of a copper-molybdenum mineral occurrence shown on G.S.C. map 1262A (Souther, 1971) located the Cu and Mo showings. The Mo appears to be a new mineral occurrence location but the Cu was previously staked as the AL 1-4 claims by D. Tait in 1972.

Assessment work was done on August 7, 10, 11 and 13-15, 1980. The 1980 program consisted of geological mapping at 1:5,000 scale and rock (36), silt (1) and soil (83) sampling of the Cu and Mo showing areas. The total area mapped is 50 hectares and represents about 5% of the claim area. About 6 kilometres of grid was established for mapping and sampling purposes.

The field work was supervised by Peter Christopher and Gary Wesa, geologists with M. Ball, G. Fulton, M. Cathro, G. Mathews, R. Blaskovitch, and S. Palmer providing field assistance. Val Loreen was camp cook and first aid person. Helicopter support was provided by a Hughes 500c flown by C. Burke and D. Cassidy and chartered from Quasar Aviation Ltd.

The Val claims occupy an elevated plateau area with all the property above timberline and elevations ranging from about 5000 feet (1524 metres) to about 6700 feet (2042 metres). A north facing cirque south of the Cu showing contains a small permanent glacier. Stream valleys are steep walled.

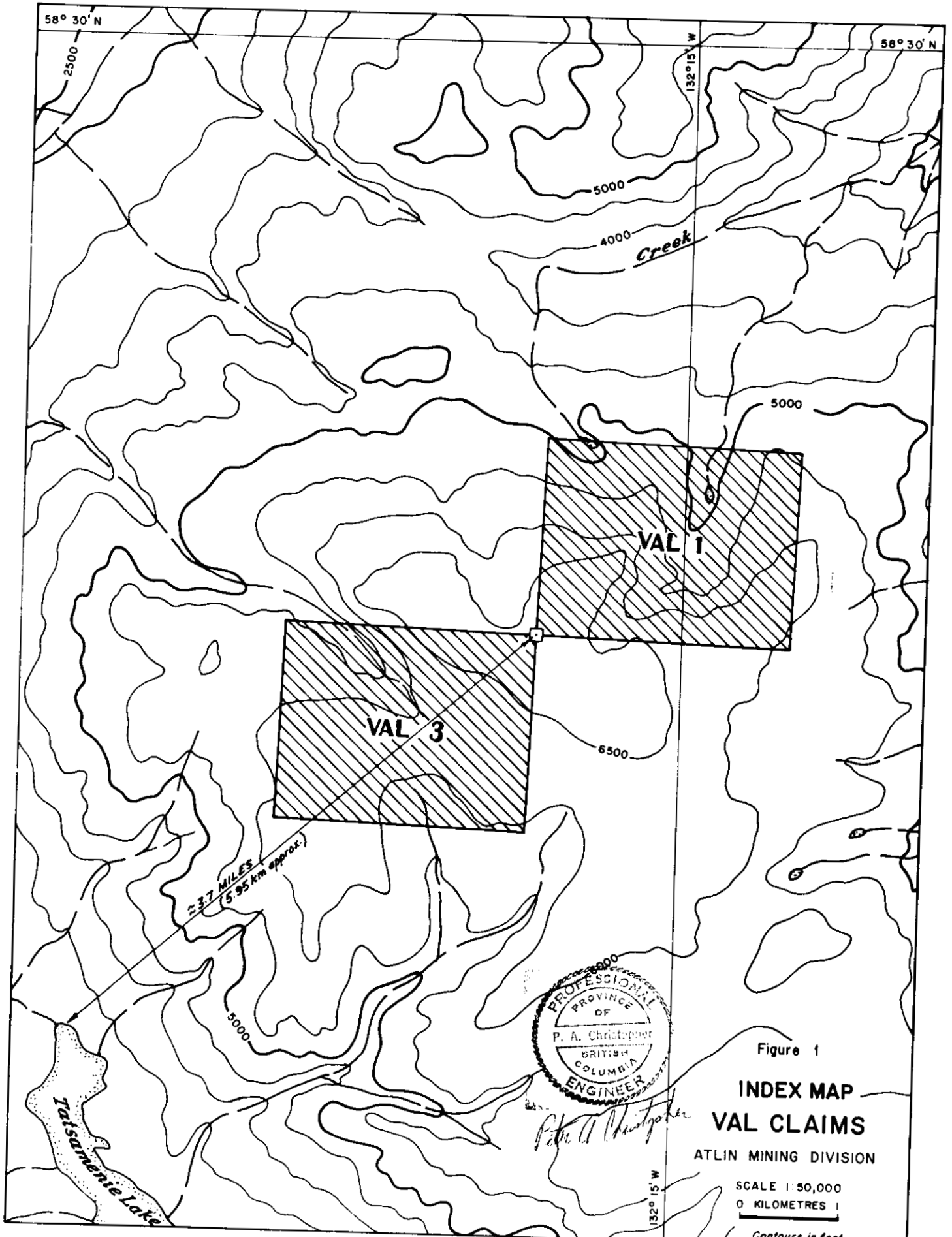


Figure 1

**INDEX MAP
VAL CLAIMS**

ATLIN MINING DIVISION

SCALE 1:50,000
0 KILOMETRES 1

Contours in feet

R.N.G., UTAH MINES LTD. JAN. '81

LOCATION AND ACCESS

The property is located approximately 5 kilometres northeast of Tatsamenie Lake and 35 kilometres northwest of the Sheslay airstrip at latitude 58°27'N and longitude 132°17'W in NTS 104K/8W. Access was by helicopter from an existing base camp situated about 15 kilometres southeast of Sheslay. The camp was supplied by Telegraph Creek Expediting Service from Dease Lake, B.C.

A base camp for extensive work on the Val claims could be established at Tatsamenie Lake or one of several other nearby lakes. Continuous helicopter support will be necessary if a camp is located below about 5000 feet.

CLAIMS

Name	Units	Staked by	Date Recorded	Owner
Val 1	20	G. Wesa	Sept. 2, 1980	Utah Mines Ltd.
Val 3	20	Matt Ball	Aug. 29, 1980	Utah Mines Ltd.

GENERAL GEOLOGY

The Val claims are situated in the Tulsequah map-area at the boundary between the Coast Mountains and Stikine Plateau physiographic provinces in the Tahltan Highland subdivision. The area can be considered part of the Coast Crystalline Belt or Stikine Arch tectonic elements with Paleozoic or Mesozoic volcanic and sedimentary rocks intruded and metamorphosed by Coast Crystalline Belt intrusive rocks. Granitic rocks vary from generally older pyroxene bearing dioritic phases to generally younger leucogranitic phases. The Val claim area is mainly underlain by unit 16 (Souther, 1971) quartz monzonite of Cretaceous or Early Tertiary age.

PROPERTY GEOLOGY

Figures 2 and 3 show the general geology of the Mo and Cu showing areas. Quartz monzonite and quartz monzonite porphyry underlies most of the claim area with quartz eye porphyry and monzonite porphyry dykes cutting the Mo area and latite, andesite and aplite dykes cutting the Cu area. Alteration, mineralization and quartz veining are controlled by 125°-130° structures but restricted areas of stockwork veining and disseminated mineralization have been observed.

The quartz monzonite is generally a fresh hornblende-biotite, two feldspar rock but shearing has produced zones of sericite-clay-chlorite-iron oxide alteration at both the Cu and Mo showings. A pyritic halo is suggested by 1% pyrite estimates in the centre of the Mo showing and 2-4% pyrite marginal to the stronger veined and altered 'core'. Monzonite porphyry and quartz eye porphyry dykes appear to be restricted to the 'core' area of the Mo show. An area of potassium feldspar-quartz ± bornite, chalcocite, biotite and magnetite veining occurs at the Cu showing. Aplite dykes are often parallel to or occupy the same structure as WNW veins while andesite and latite dykes are generally younger than copper bearing quartz veins but are cut by quartz-carbonate veins and copper carbonate coated fractures.

Mineralization consists mainly of quartz and pyrite with minor molybdenite and copper carbonate and rare chalcopyrite at the Mo showing. One strong molybdenum bearing quartz vein had up to 3 inches of strong molybdenite in a 6 inch quartz vein but quartz veins as stockwork and parallel sets generally contain only minor molybdenite.

The Cu showing consists of sheeted quartz veins in a strongly sheared, altered and leached zone about 50 metres wide has been traced about 600 metres along a 125° strike (dipping 55° SW) before being lost in talus. Bornite, chalcocite and copper carbonate occurs in quartz veins and along dry fractures. An area of apparently disseminated bornite, chalcocite and copper carbonate occurs south of the shear zone at samples 808MT52 and 808MT53. Molybdenite has been found in the sheeted quartz veined area away from the steep valley wall. Pyrite appears to be rare at the Cu showing.

GEOCHEMISTRY

Geochemical sample locations and values are shown on Figures 4 and 5. The Mo showing area was tested with 50 soil, 1 silt and 17 rock samples (16 were 20ft chip samples); and the Cu showing area was tested with 33 soil and 19 rock samples (1 select and 18 chip). Silt and soil samples were analyzed for copper, molybdenum and silver and rock samples were analyzed for copper, molybdenum, silver and gold.

The silt sample collected from the Mo showing area was anomalous in copper (280 ppm) and molybdenum (30 ppm) while soil samples have ranges of 10-885 ppm copper, 1-250 molybdenum, and 0.1-0.7 ppm silver. Rock samples have values of 26-320 ppm copper, 2-210 ppm molybdenum, 0.1 ppm silver and <10-10 ppb gold. Soil samples 80 SFS 85 to 93 provide a continuous length of over 300 metres of anomalous molybdenum and copper in soils and samples 80 SPS 15 to 24 provide a subparallel length of over 300 metres of anomalous molybdenum and copper in soils.

Soil values at the Cu showing vary from 36-1100 ppm copper, 1-2 ppm molybdenum and 0.1 ppm silver. A select rock sample 80 SWT 40 assayed 35% copper, 0.003% Mo, 7.32 oz/ton silver and 0.016 oz/ton gold and represents a concentration of bornite and chalcocite in a 20cm wide quartz vein. The best chip sample (80 SWT 44) is 30 feet of 1.18% copper, 3 ppm molybdenum, 11 ppm silver and 960 ppb gold. Adjacent samples 80 SWT 43 and 45 ran 0.16% and 0.04% copper respectively, but highly sheared and leached sections are included in these samples.

A zone about 300 metres to the south has successive samples with 2000 ppm and 3350 ppm copper with one 5 metre sample per 50 metre interval. Weathering is indicated by brown iron oxide rich zones and secondary copper carbonate minerals with at least part of the strong sheared zone leached. Downward migration of copper within the shear zone is a possibility and could have produced a higher grade deposit at depth.

RECOMMENDATION

Further work is required to test the potential of the Val Claims, and this work is warranted because of the potential for a high grade copper deposit with significant precious metal values. An I.P. survey over the shear zone should indicate if sufficient metallic mineralization exists to produce a copper-silver-gold deposit. The size of the mineralized system at the 'Mo showing' appears to be small but should also be checked with I.P. The strong pyrite halo should define the size of the alteration zone.

If initial geophysical surveys are permissive to viable mineral deposits, then an initial minimum drilling program of about 700m will be required to test for increases with depth of the grade of mineralization.

REFERENCES

Souther, J. G. 1971. Geology and mineral deposits of **Fulsequah** Map-Area, British Columbia. Geological Survey of Canada, Mem. 362 (Map 1262A).

APPENDIX A
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

The fieldwork for this report was supervised by Peter A. Christopher and Gary Wesa whose qualifications are outlined below.

Peter A. Christopher, P.Eng., Ph.D., Senior Geologist for Utah Mines Ltd., Vancouver, British Columbia.

Completed his B.Sc. at the State University of New York at Fredonia in 1966, M.A. at Dartmouth College in 1968, and Ph.D. at the University of British Columbia in 1973. He has worked for several mining companies on porphyry, massive sulphide, uranium and gold deposits in the western United States and Canada. In 1973 and 1974 he served as exploration geologist for Newmont Mining Corporation and from 1974 to 1980 as project geologist with the British Columbia Ministry of Energy, Mines and Petroleum Resources. He assumed his present position as senior geologist for Utah Mines in June, 1980.



Peter A. Christopher

Gary L. Wesa, Prospector/Geologist, received his B.Sc. degree in geology in 1974 from the University of Saskatchewan at Regina.

During the 1970 field season he prospected for porphyry, copper and molybdenum in SE B.C. for Versatile Mining Services. The 1971 and 1972 field seasons were spent in Northern Saskatchewan on base metal and uranium exploration programs with D. L. Suriik and Assoc. (1971) and Amok Ltd. (1972). Exploration activities during the 1973-74 seasons involved prospecting for lead-zinc, mapping, geochemical and geophysical surveys on Cornwallis Is., N.W.T. for Canadian Superior Exploration. He was employed by Cordilleran Engineering, as a prospector/geologist and project manager, between 1975-79 and worked on various base metal regional reconnaissance programs and property assessment projects in Yukon and N.W.T. He joined Utah Mines Ltd. in May, 1980 as a prospector/geologist, becoming a member of a regional reconnaissance crew prospecting for base metals and massive sulphides in NE B.C. and Stikine region of NW B.C.

APPENDIX B
STATEMENT OF COSTS

STATEMENT OF COSTS

For: Geological Mapping; Grid Work; and Geochemical Sampling.

Personnel and Wages:

P. A. Christopher		
5 days @ \$115/day		\$ 575.00
G. L. Wesa		
5 days @ \$77/day		\$ 385.00
G. Matthews		
5 days @ \$50/day		\$ 250.00
M. Ball		
5 days @ \$62/day		\$ 372.00
G. Fulton		
6 days @ \$35/day		\$ 210.00
S. Palmer		
5 days @ \$33/day		\$ 165.00
R. Blaskovich		
5 days @ \$42/day		\$ 210.00
M. Cathro		
5 days @ \$35/day		\$ 175.00
	Total Wages	\$ 2342.00
	+ 10% Company Benefits	<u>\$ 234.20</u>
	Personnel and Wages Total	<u>\$ 2576.20</u>

Support Costs:

Accommodation and Board		
42 man days @ \$30/day		\$ 1260.00
Communications		
Telephone		\$ 100.00

Transportation:

Helicopter Support

22.8 hours @ \$280/hour \$ 6384.00

Fuel (Helicopter) Utah Supplied

524 gal @ \$2.50/gal \$ 1310.00

Total Helicopter Support \$ 7694.00

Assaying:

Soil and Silt

84 samples @ \$3.24 each \$ 272.16

Assay

3 samples @ \$16.80 \$ 50.40

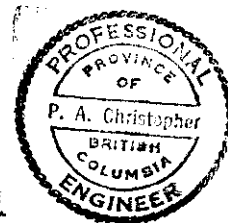
Rock Geochem

33 samples @ \$5.44 \$ 179.52

Total Assaying \$ 502.08

Report Preparation \$ 500.00

TOTAL COSTS \$ 12,632.28



Peter A. Christopher

QUASAR AVIATION LTD.



VANCOUVER
7600 SUNNYBANK AVE.
RICHMOND, B.C. V6Y 1G5
(604) 271-5505

CALGARY
HANGAR 2 CALGARY INTL AIRPORT
CALGARY, ALTA. T2P 2G3
(403) 230-1331

FLIGHT REPORT

No. **4618**
Date 10/1/80
A/C Reg. 10511
A/C Type 560C
Pilot J. H. [unclear]
Engr. [unclear]

CUSTOMER COPY

Customer Name and Address
LITAK AIRS.
567E 1100
1050 West powder st VAN
Authorization No. _____

Type of Contract
Hourly
Daily Minimum
<input checked="" type="checkbox"/> Monthly

Location	Operation	Time-Off	Time-Down	Flying Hours
SKI CAMP	CRUSO 1 TO PLTTRAK	0850	1045	1.9
	VAL CRUSO			
	CRUSO STG FROM PLTTRAK	1500	1650	.9
	CRUSO LA JIRA PLTTRAK	1730	1815	.8

Item	Extra Charge or Adjustment	Amount	Fuel & Oil Supplied By	Total Revenue Hours	1.0
			Charterer <input checked="" type="checkbox"/>	Non-Revenue Hours	3.6

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CALGARY, ALTA. T2P 2G3
(403) 230-1331

FLIGHT REPORT

No. **4644**
Date 10/1/80
A/C Reg. 10511
A/C Type 560C
Pilot J. H. [unclear]
Engr. _____

CUSTOMER COPY

Customer Name and Address
LITAK AIRS.
567E 1100
1050 West powder st VAN
Authorization No. _____

Type of Contract
Hourly
Daily Minimum
<input checked="" type="checkbox"/> Monthly

Location	Operation	Time-Off	Time-Down	Flying Hours
SKI CAMP	CAT CRUSO OUT / DOC + ANDY + GRAY + JOHN + TO PLTTRAK + CRUSO OUT	0745	0915	1.5
	ANDY + JOHN + DOC BACK TO CAMP + SLIP PERIODS ALSO CRUSO	0930	1010	.7
	PERIOD ANDY + JOHN + GRAY + BOB TO TRIP	1020	1100	.7
	DOC + ANDY TO OLD ALSO HOBOR + ANDY TO PLTTRAK	1130	1200	.5
	STANK IIR WITH GRAY + ANDY	1330	1515	1.8
	CRUSO IN	1630	1745	1.3
	SLIP PERIOD TO CAT + CAT CRUSO IN	1930	2000	.5

Item	Extra Charge or Adjustment	Amount	Fuel & Oil Supplied By	Total Revenue Hours	7.0
			Charterer <input checked="" type="checkbox"/>	Non-Revenue Hours	5.8

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CALGARY, ALTA. T2P 2G3
(403) 230-1331

FLIGHT REPORT

No. **4678**

Date 1-11-80

A/C Reg. 50112

A/C Type 500C

Pilot C. Smith

Engr. [Signature]

Customer Name and Address

W. P. P. A. S.

Suite 1000

1050 110 + 110 St. Vanc.

Authorization No. _____

Type of Contract
Hourly
Daily Minimum
<input checked="" type="checkbox"/> Monthly

Location	Operation	Time-Off	Time-Down	Flying Hours
Ski Camp	CIRUS out to ALTAQUA VAL	0800	0935	1.6
	CIRUS			
	CIRUS TO P.O. VAL CLIMB 1100	1515		1.3

Item	Extra Charge or Adjustment	Amount	Fuel & Oil Supplied By	Total Revenue Hours <u>2.9</u>	Non Revenue Hours
------	----------------------------	--------	------------------------	--------------------------------	-------------------

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CALGARY, ALTA. T2P 2G3
(403) 230-1331

FLIGHT REPORT

No. **4649**

Date 1-11-80

A/C Reg. 50112

A/C Type 500C

Pilot C. Smith

Engr. _____

Customer Name and Address

W. P. P. A. S.

Suite 1100

1050 110 + 110 St Vanc.

Authorization No. _____

Type of Contract
Hourly
Daily Minimum
<input checked="" type="checkbox"/> Monthly

Location	Operation	Time-Off	Time-Down	Flying Hours
Ski Camp	CIRUS out + EXPT. OFF OF P.O. VAL + GET B TO CAMP. CIRUS WITH WORKING ALTAQUA VAL CENAS.	0745	0745	2.0
	CIRUS TO SKI CAMP OFF OF ALTAQUA.	1145	1810	1.5

Item	Extra Charge or Adjustment	Amount	Fuel & Oil Supplied By	Total Revenue Hours <u>3.5</u>	Non Revenue Hours
------	----------------------------	--------	------------------------	--------------------------------	-------------------

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CALGARY
HANGAR 2 CALGARY INTL AIRPORT
CALGARY, ALTA. T2P 2G3
(403) 230-1331

FLIGHT REPORT

No. **4679**
Date Aug 15/30
A/C Reg. C-GJET
A/C Type 500 C
Pilot D. Cassidy
Engr. J. USADCHUCK

CUSTOMER COPY

Customer Name and Address
UTAH MINES LTD
EXPLORATION DEPT.

Type of Contract
Hourly
Daily Minimum
<u>Monthly</u>

Authorization No. _____

Location	Operation	Time Off	Time Down	Flying Hours
<u>SKI CAMP</u>	<u>SET CREWS OUT.</u>	<u>8:12</u>	<u>10:06</u>	<u>1.9</u>
	<u>PETER CHRISTOPHER TO DEASE LK.</u>	<u>11:54</u>	<u>12:30</u>	<u>.6</u>
	<u>RETURN TO SKI CAMP.</u>	<u>14:30</u>	<u>15:06</u>	<u>.6</u>
	<u>PICK UP CREWS.</u>	<u>16:48</u>	<u>18:48</u>	<u>2.0</u>

Item	Extra Charge or Adjustment	Amount	Fuel & Oil Supplied By	Total Revenue Hours	<u>4.1</u>
			Charter <input checked="" type="checkbox"/>	Non-Revenue Hours	<u>2.1</u>

QUASAR AVIATION LTD.



VANCOUVER
7600 SUNNYBANK AVE.
RICHMOND, B.C. V6Y 1G5
(604) 271-5505

CALGARY
HANGAR 2 CALGARY INTL AIRPORT
CALGARY, ALTA. T2P 2G3
(403) 230-1331

FLIGHT REPORT

No. **4677**
Date Aug 14/30
A/C Reg. C-GJET
A/C Type 500 C
Pilot D. Cassidy
Engr. J. USADCHUK

CUSTOMER COPY

Customer Name and Address
UTAH MINES LTD.
EXPLORATION DEPT.

Type of Contract
Hourly
Daily Minimum
<u>Monthly</u>

Authorization No. _____

Location	Operation	Time Off	Time Down	Flying Hours
<u>SKI CAMP</u>	<u>SET CREWS OUT.</u>	<u>8:06</u>	<u>10:00</u>	<u>1.9</u>
	<u>HAVE SUPPLIES FROM SIKESLEY</u>	<u>10:00</u>	<u>10:30</u>	<u>.5</u>
	<u>SLING FALL</u>	<u>10:30</u>	<u>11:12</u>	<u>.7</u>
	<u>PICK CREWS UP.</u>	<u>13:00</u>	<u>14:48</u>	<u>1.8</u>

Item	Extra Charge or Adjustment	Amount	Fuel & Oil Supplied By	Total Revenue Hours	<u>4.9</u>
			Charter <input checked="" type="checkbox"/>	Non-Revenue Hours	

APPENDIX C
ANALYTICAL RESULTS



CHEMEX LABS LTD.

212 BROADBANK AVE
NORTH VANCOUVER, B.C.
CANADA V7J 2G1
TELEPHONE (604) 994-1211
TELEX 04742047

ANALYTICAL CHEMISTS GEOCHEMISTS REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : Utah Mines Ltd.,
1600 - 1050 W. Pender St.,
Vancouver, B.C.
V6E 3S7

CERT. # : A3010072-001-A
INVOICE # : 38379
DATE : 29-AUG-80
ATTN: GL WESA

Sample description	Cu ppm	Mo ppm	Ag ppm	Au -(AA) ppb
80SWT-63	245	210	0.1	10
80SWT-64	158	19	0.1	<10
80SWT-65	58	9	0.1	<10
80SWT-66	64	2	0.1	10
80SMT-55	28	3	0.1	<10
80SMT-56	162	12	0.1	<10
80SMT-57	178	35	0.1	<10
80SMT-58	54	2	0.1	<10
80SMT-59	26	3	0.1	10

TO : Utah Mines Ltd.,
1600 - 1050 W. Pender St.,
Vancouver, B.C.
V6E 3S7

RECEIVED

CERT. # : A3010073-001-A
INVOICE # : 38513
DATE : 04-SEP-80
ATTN: GL WESA

SEP 5 - 1980

UTAH :
EXPLORATION DEPT.

Sample description	Cu ppm	Mo ppm	Ag ppm	
80SPS 15	132	35	0.1	--
80SPS 17	146	31	0.1	--
80SPS 18	190	46	0.1	--
80SPS 19	120	13	0.1	--
80SPS 20	33	11	0.1	--
80SPS 21	174	7	0.1	--
80SPS 22	150	17	0.1	--
80SPS 23	120	15	0.1	--
80SPS 24	55	9	0.1	--
80SPS 25	32	4	0.1	--
80SPS 26	40	4	0.1	--
80SPS 27	35	3	0.1	--
80SPS 28	70	3	0.1	--
80SPS 29	26	2	0.1	--
80SPS 30	23	1	0.1	--
80SPS 31	24	2	0.1	--
80SPS 32	23	1	0.1	--
80SPS 33	13	2	0.1	--
80SPS 34	10	1	0.1	--
80SFL 12	54	1	0.1	--
80SFL 13	76	2	0.1	--
80SFL 14	40	1	0.1	--
80SFL 15	73	1	0.1	--
80SFL 16	52	1	0.1	--
80SFL 17	136	1	0.1	--
80SFL 18	25	1	0.1	--



CHEMEX LABS LTD.

210 BRITANNIA BLVD
NORTH VANCOUVER BC
CANADA V7J 1G7
TELEPHONE (604) 942-1000
TELEX 048-0000

ANALYTICAL CHEMISTS · GEOCHEMISTS · REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

Client: Utah Mines Ltd.,
1500 - 1050 W. Pender St.,
Vancouver, B.C.
V6E 3S7

CERT. # : A8010073-001-1
INVOICE # : 38513
DATE : 04-SEP-80

ATTN: GL VESA

Sample description	Cu ppm	Mo ppm	Ag ppm	As - (ppm)
80 SAT 41	142	31	0.1	10
80 SAT 42	26	2	0.1	10

Client: Utah Mines Ltd.,
1600 - 1050 W. Pender St.,
Vancouver, B.C.
V6E 3S7

~~INTEGRITY~~

SEP 5 - 1980

CERT. # : A8010073-001-1
INVOICE # : 38513
DATE : 04-SEP-80

ATTN: GL VESA

UTAH
EXPLORATION

Sample description	Cu ppm	Mo ppm	Ag ppm	
80S 37	100	1	0.1	--
80S 38	320	1	0.1	--
80S 39	130	1	0.1	--
80SFS 40	118	1	0.1	--
80SFS 41	56	1	0.1	--
80SFS 42	190	1	0.1	--
80SFS 43	132	1	0.1	--
80SFS 44	110	1	0.1	--
80SFS 45	42	2	0.1	--
80SFS 46	38	1	0.1	--
80SFS 47	94	1	0.1	--
80SFS 48	320	1	0.1	--
80SFS 49	130	1	0.1	--
80SFS 50	200	1	0.1	--
80SFS 51	1100	1	0.1	--
80SFS 52	166	2	0.1	--
80SFS 53	128	1	0.1	--
80SFS 54	50	1	0.1	--
80SFS 55	50	1	0.1	--
80SFS 56	58	1	0.1	--
80SFS 57	40	1	0.1	--
80SFS 58	60	1	0.1	--
80SFS 59	72	1	0.1	--
80SFS 60	66	1	0.1	--
80SFS 61	62	1	0.1	--
80S 62	58	1	0.1	--
80S 63	46	1	0.1	--
80SFS 64	78	1	0.1	--
80SFS 65	78	1	0.1	--
80SFS 66	420	1	0.1	--
80SFS 67	110	1	0.1	--
80SFS 68	90	1	0.1	--
80SFS 69	36	1	0.1	--



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER B.C.
CANADA V7J 2G7
TELEPHONE (604) 984-1001
TELEX 043 8044

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

Client: Utah Mines Ltd.,
1600 - 1050 W. Pender St.,
Vancouver, B.C.
V6E 3S7

CERT. # : A8010074-001-4
INVOICE # : 38454
DATE : 03-SEP-80

ATTN: GL WESA

Sample description	Mo ppm	Ag ppm	Au (AA) ppm	
80SWT-43	16	1.3	10	--
80SWT-44	3	11.0	960	--
80SWT-45	2	0.2	40	--

SAMPLE NO.	% Cu	Tag No.	Also on A810074.
80-SWT-43	0.16	83069	
44	1.18	83070	
80-SWT-45	0.04	83071	



• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CANADA V7J 2G7
TELEPHONE (604) 984-1001
TELEX 043 8044

CERTIFICATE OF ANALYSIS

Client: Utah Mines Ltd.,
1600 - 1050 W. Pender St.,
Vancouver, B.C.
V6E 3S7

RECEIVED

CERT. # : A8010073-001-4
INVOICE # : 38513
DATE : 04-SEP-80

SEP 5 - 1980

ATTN: GL WESA

UTAH
EXPLORATION DEPT.

Sample description	Cu ppm	Ag ppm	Au ppm	
15	152	35	0.1	--
16	146	21	0.1	--
17	190	46	0.1	--
18	120	13	0.1	--
21	32	11	0.1	--
22	104	9	0.1	--
23	150	17	0.1	--
24	120	15	0.1	--
25	55	8	0.1	--
26	32	4	0.1	--
27	40	4	0.1	--
28	35	3	0.1	--
29	70	3	0.1	--
30	75	7	0.1	--
31	28	1	0.1	--
32	24	2	0.1	--
33	23	1	0.1	--
34	18	2	0.1	--
35	10	1	0.1	--

CHEMEX LABS LTD.

212 BROOKSBANK AVE
NORTH VANCOUVER B.C.
CANADA V7J 2C1
TELEPHONE (604) 984-0221
TELEX 043-52997

ANALYTICAL CHEMISTS

GEOCHEMISTS

REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

DECEMBER

SEP 5 - 1980

UTAH
EXPLORATION

CERT. # : 46010073-001-A
INVOICE # : 36513
DATE : 04-SEP-80

ATTN: GL WESA

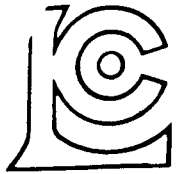
Utah Mines Ltd.,
1600 - 1050 W. Pender St.,
Vancouver, B.C.
V6E 3S7

Sample description	Cu ppm	Mo ppm	Ag ppm	
BOSFS 37	100	1	0.1	--
BOSFS 38	320	1	0.1	--
BOSFS 39	130	1	0.1	--
BOSFS 40	118	1	0.1	--
BOSFS 41	56	1	0.1	--
BOSFS 42	190	1	0.1	--
BOSFS 43	132	1	0.1	--
BOSFS 44	110	1	0.1	--
BOSFS 45	42	2	0.1	--
BOSFS 46	38	1	0.1	--
BOSFS 47	94	1	0.1	--
BOSFS 48	320	1	0.1	--
BOSFS 49	130	1	0.1	--
BOSFS 50	200	1	0.1	--
BOSFS 51	1100	1	0.1	--
BOSFS 52	166	2	0.1	--
BOSFS 53	128	1	0.1	--
BOSFS 54	50	1	0.1	--
BOSFS 55	56	1	0.1	--
BOSFS 56	59	1	0.1	--
BOSFS 57	40	1	0.1	--
BOSFS 58	50	1	0.1	--
BOSFS 59	72	1	0.1	--
BOSFS 60	66	1	0.1	--
BOSFS 61	62	1	0.1	--
BOSFS 62	55	1	0.1	--
BOSFS 63	46	1	0.1	--
BOSFS 64	78	1	0.1	--
BOSFS 65	78	1	0.1	--
BOSFS 66	420	1	0.1	--
BOSFS 67	110	1	0.1	--
BOSFS 68	90	1	0.1	--
BOSFS 69	36	1	0.1	--
BOSFS 09	18	1	0.1	--
BOSFS 10	20	1	0.1	--
BOSFS 11	18	3	0.1	--
BOSFS 12	38	4	0.1	--
BOSFS 13	34	6	0.1	--
BOSFS 14	40	5	0.1	--
BOSFS 15	130	51	0.1	--

Certified by *[Signature]*



MEMBER
CANADIAN TESTING
ASSOCIATION



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE 984-0221
AREA CODE 604
TELEX 04352597

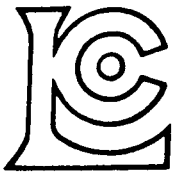
ANALYTICAL CHEMISTS GEOCHEMISTS REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 69835
INVOICE NO. 38222
RECEIVED Aug. 20/80
ANALYSED Aug. 25/80

TO: Utah Mines Ltd.
1600 - 1050 W. Pender St.
Vancouver, B.C. V6E 3S7
ATTN: G.L. Wesa

SAMPLE NO. :	% Cu	% Mo	oz/ton Ag	oz/ton Au	Tag No.
80 SWT-40	35.0	0.003	7.32	0.016	83117



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE 984-0221
AREA CODE 604
TELEX 04-352597

ANALYTICAL CHEMISTS GEOCHEMISTS REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. A8010075-001-A
INVOICE NO. 38341
RECEIVED August 21, 1980
ANALYSED August 28, 1980

TO: Utah Mines Ltd.,
1600 - 1050 W. Pender St.,
Vancouver, B.C.
V6E 3S7

ATTN:

St. John

SAMPLE NO. :	PPM Cu	PPM Mo	PPM Pb	PPM Zn	PPM Ag	PPB Au
80-SWT-46	200	1			0.1	10
47	54	1			0.1	10
48	220	2			0.1	<10
49	875	1			0.1	50
50	325	2			0.1	20
51	108	1			0.1	20
52	52	1			0.1	<10
53	178	1			0.1	<10
54	225	1			0.1	<10
55	40	1			0.1	<10
56	38	12			0.1	<10
57	106	44			0.1	10
58	44	21			0.1	<10
59	86	27			0.1	10
60	82	12			0.1	10
61	320	15			0.1	<10
80-SWT-62	146	9			0.1	<10

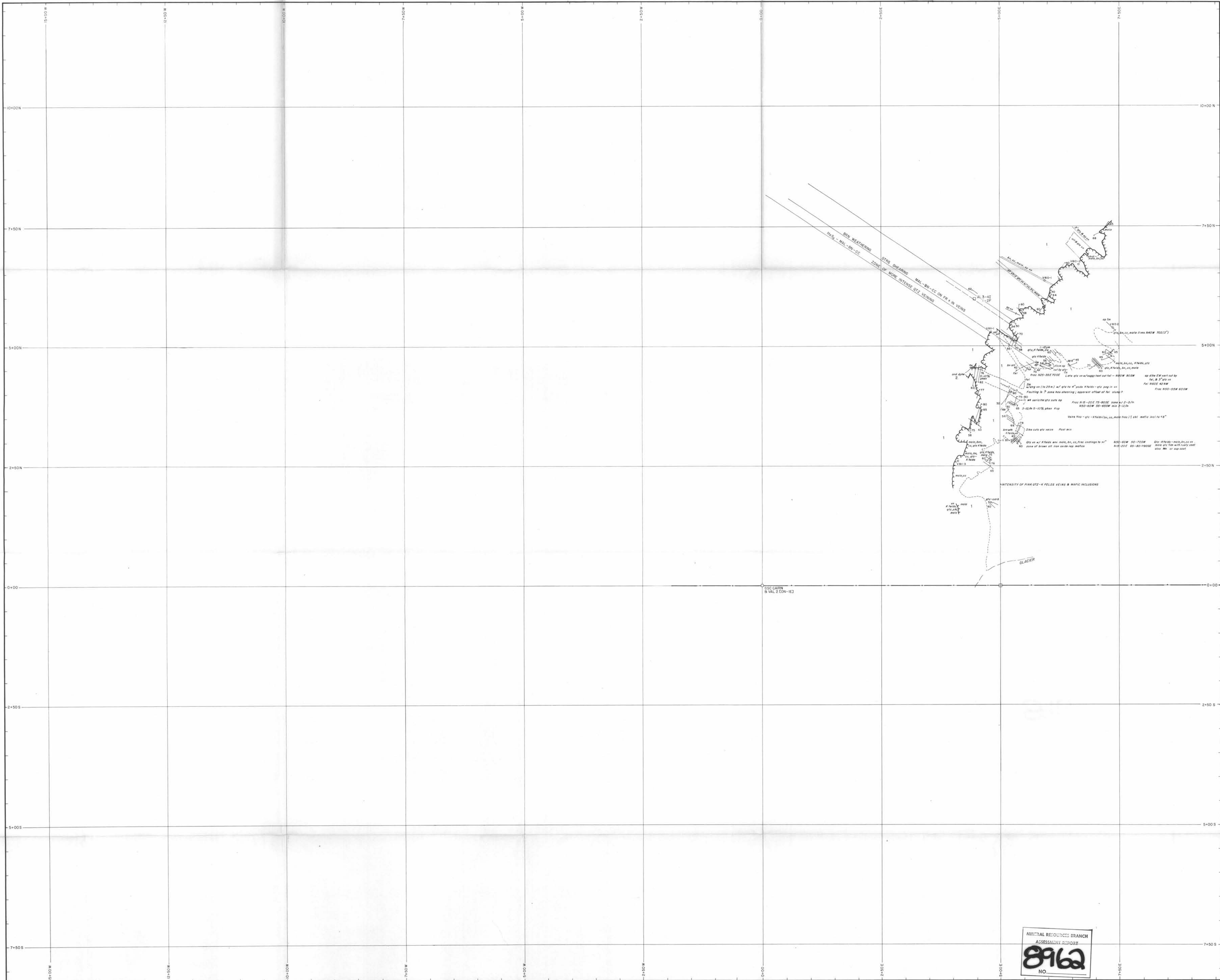


MEMBER
CANADIAN TESTING
ASSOCIATION

St. John

rock geochemistry

SAMPLE NO.	PPM Cu	PPM Mo	PPM Pb	PPM Zn	PPM Ag	PPB Au
80-SMT-50	72	1			0.1	10
51	425	1			0.1	<10
52	2000	4			1.2	20
53	3350	1			2.8	10
80-SMT-54	32	1			0.1	10

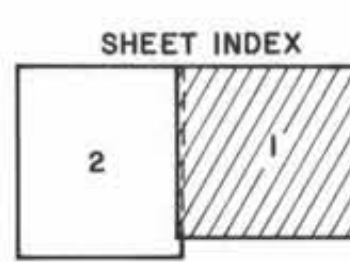


MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8962
NO.

LEGEND

- | | | |
|--|-----------------------------------|-----------------------------|
| Andesite | Geological boundary (defined) | Claim post |
| Felsite | Geological boundary (approximate) | Sample location |
| Aplite | Top of cliff | Joints (inclined, vertical) |
| Paraphry quartz monzonite with minor mafic inclusion | Outcrop (bottom of cliff) | Bedding (vertical) |
| | Fault | |
| | Claim boundary | |

SCALE 1:2,500
METRES 0 50 100 150 200 250

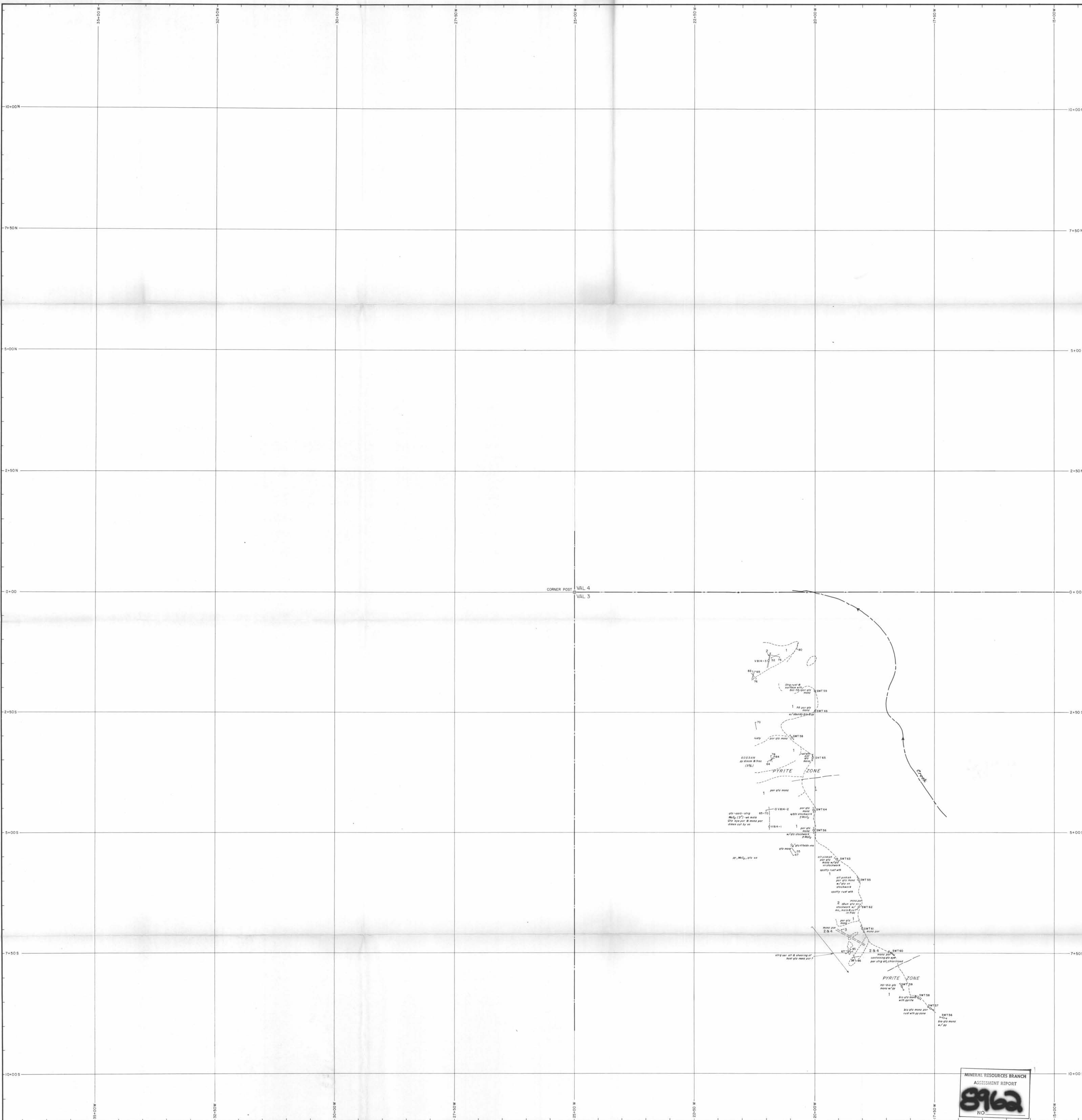


UTAH MINES LTD.
EXPLORATION DEPARTMENT
Vancouver British Columbia

Cu / Mo PROSPECT
VAL CLAIMS
PLATEAU MOUNTAINS
Fig 2 - Cu SHOWING
GEOLOGY

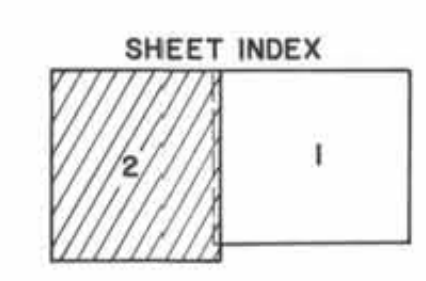
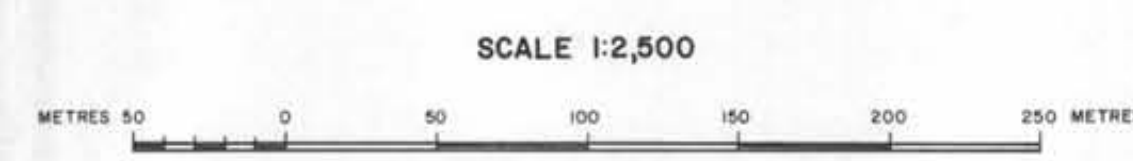
Work by: P. CHRISTOPHER Date: 30th SEPT, 1980 NTS Ref. 104-K-8
Drawn by: R. N. Soppel Revised: VAL - SHEET I

SCALE IN METRES



LEGEND

- | | | | | | |
|---|-------------------------------------|------------------------|-----------------------|---|------------------|
| 4 | Strong shearing sericite alteration | Defined | Geological boundaries | □ | Claim post |
| 3 | Quartz vein porphyry | Approximate | | ○ | Sample locations |
| 2 | Monzonite and monzonite porphyry | River or creek | | ↗ | Joint (inclined) |
| 1 | Porphyritic quartz monzonite | Lower limit of outcrop | | | |
| | | Claim boundary | | | |



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8962
NO.

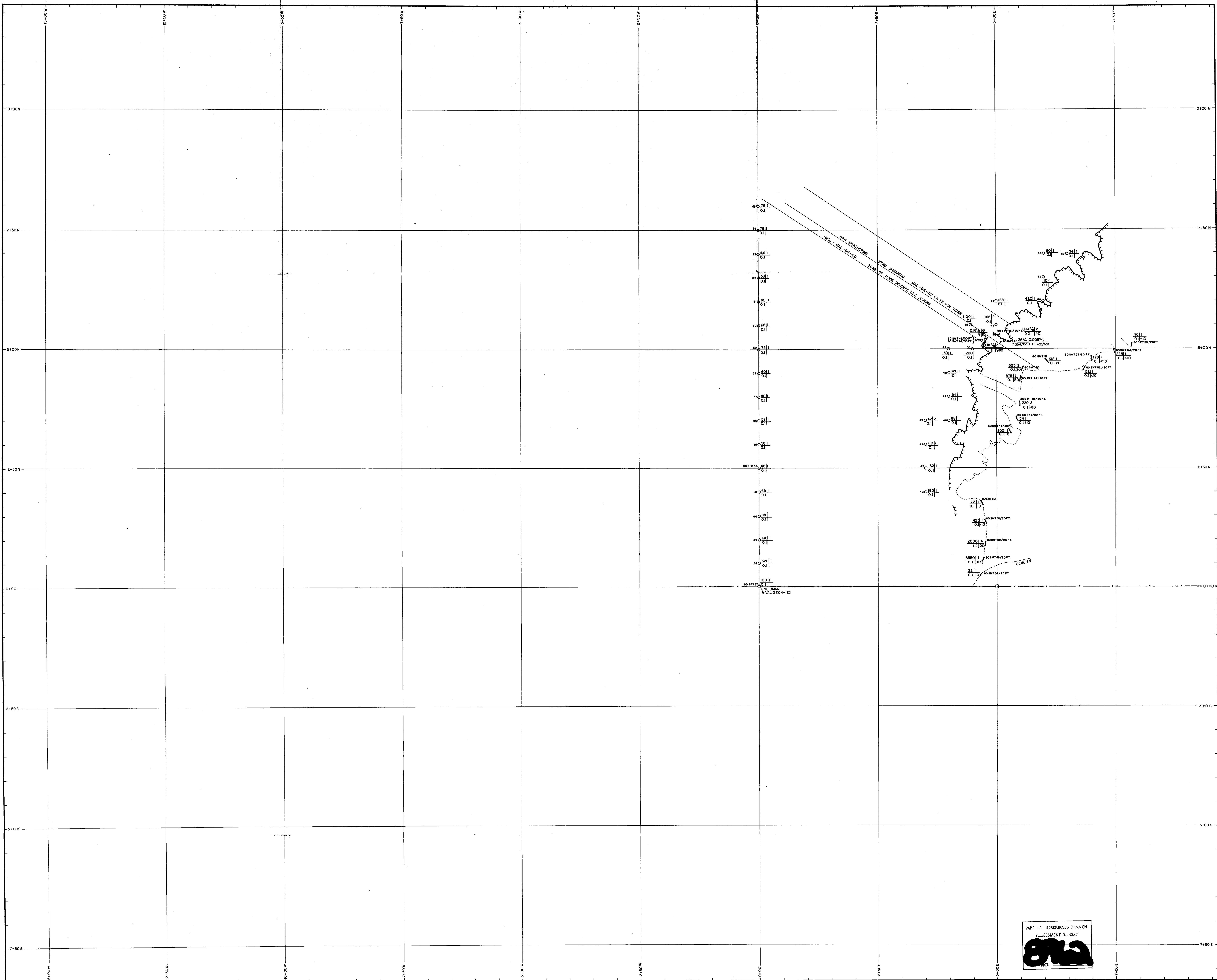
UTAH MINES LTD.
EXPLORATION DEPARTMENT
Vancouver British Columbia

Geological
P. A. Christopher
REGISTERED
GEOLOGIST

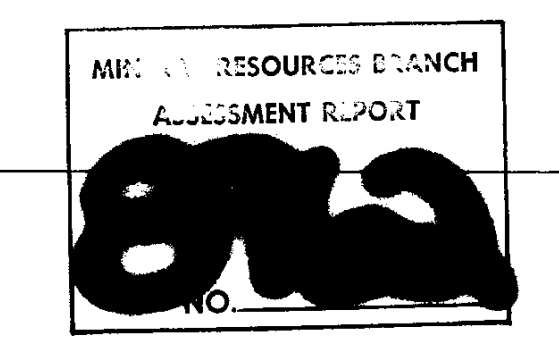
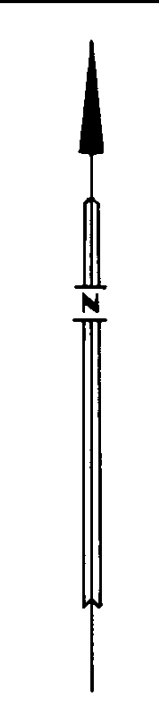
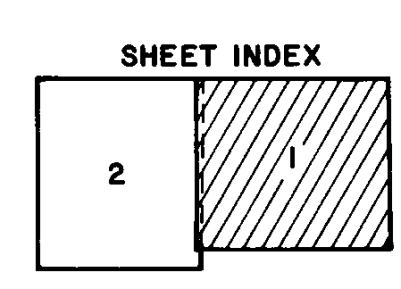
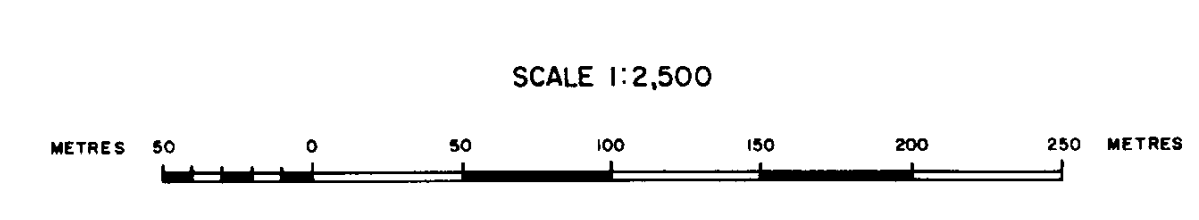
Fig 3 - Mo SHOWING
GEOLOGY

Work by: P. CHRISTOPHER	Date: Oct. 1980	NTS Ref: 104-K-B
Drawn by: R. N. Gopal	Revised:	VAL - SHEET 2

SCALE IN METRES



- SOIL SAMPLE (Results in ppm)
- CHIP SAMPLE (Ag - ppm, Au - ppm, Cu - ppm, Mo - ppm, unless otherwise stated)
- Cu Mo
Ag Au
- CLAIM POST
- TOP OF CLIFF
- - - BOTTOM OF CLIFF (OUTCROP)
- CLAIM BOUNDARY

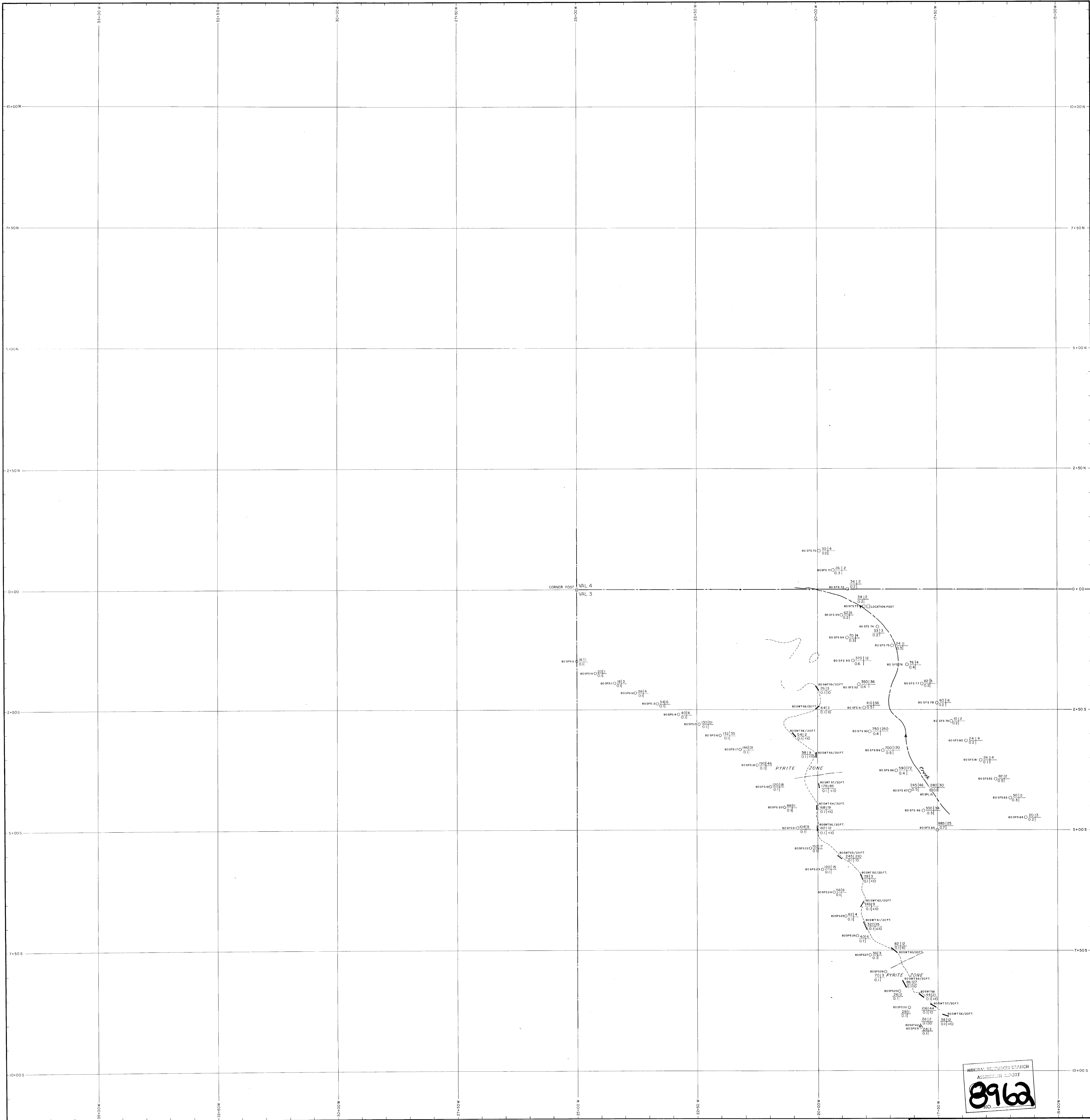


UTAH MINES LTD.
EXPLORATION DEPARTMENT
Vancouver British Columbia

VAL CLAIMS
PLATEAU MOUNTAINS
Fig. 4. Cu SHOWING
SAMPLE LOCATIONS & GEOCHEMISTRY
SOIL & ROCK CHIPS

Work by: P. CHRISTOPHER	Date: 30th SEPT, 1980	NTS Ref. 104-K-8
Drawn by: R.N. Gopal	Revised:	VAL - SHEET 1

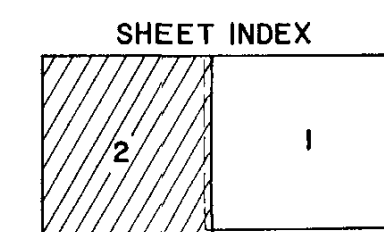
SCALE IN METRES



MINERAL RESOURCES DIVISION
ASSESSMENT REPORT
8962
NO.

- △ ROCK SAMPLE (Results in ppm except Au in ppb, unless otherwise stated)
- ⊙ SILT SAMPLE (Results in ppm)
- SOIL SAMPLE (Results in ppm)
- CLAIM POST
- LOWER LIMIT OF OUTCROP
- CREEK
- CLAIM BOUNDARY

SCALE 1:2,500
METRES 50 0 50 100 150 200 250



UTAH MINES LTD.
EXPLORATION DEPARTMENT
Vancouver British Columbia

**VAL CLAIMS
PLATEAU MOUNTAINS**
Fig 5: Mo SHOWING
SAMPLE LOCATIONS & GEOCHEMISTRY
SOIL & ROCK CHIPS

Work by: P. CHRISTOPHER Date: OCT, 1980 NTS Ref. 104-K-B
Drawn by: R.N. Gospi Revised: VAL - SHEET 2

SCALE IN METRES