

86-693-15302

ASSESSMENT REPORT ON THE
JEWEL GROUP
COMPOSED OF THE OPAL, RUBY, TOPAZ AND PEARL MINERAL CLAIMS

KAMLOOPS, M.D.
N.T.S. 82L/5E

Lat 50° ^{27.3'}~~28~~ N Long 119° ^{40.9'}~~69~~ W

Owned by Elizabeth Mazoff
Vernon, BC

Work by
John Deighton
Operator: Utah Mines Ltd.

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

15,302

FILMED

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Location:

The Jewel Group of four - two post mineral claims, owned by Elizabeth Marzoff of Vernon, BC, is located approximately 8 kilometres west of Faulkland, BC in the Kamloops, M.D. at coordinate 50°, 28' N 119° 39' W in NTS 82L/5E. The claims are the Pearl, Opal, Ruby and Topaz and they cover heavily overburden covered sidehill that is sparsely timbered and a portion of the valley.

History

The property was staked by the Marzoff family in 1953 when it was discovered during logging operations. Trenching was conducted in the area of the main showing in the mid 1960's and two diamond drill holes, 150' and 171' long, were drilled in 1974. A further diamond drill hole was drilled at an unknown time. A magnetometer, EM-16 and Induced Polarization survey were undertaken by Canex Aerial Exploration in 1967, but very little information was obtainable from these survey's. During the summer of 1986, Utah became interested in the property and sampled and mapped of the area.

Claim Data

The claims are located in the Kamloops M.D. and are owned by Elizabeth Marzoff, 10011 Kall Lake Road, Vernon, BC - V1B 1L5.

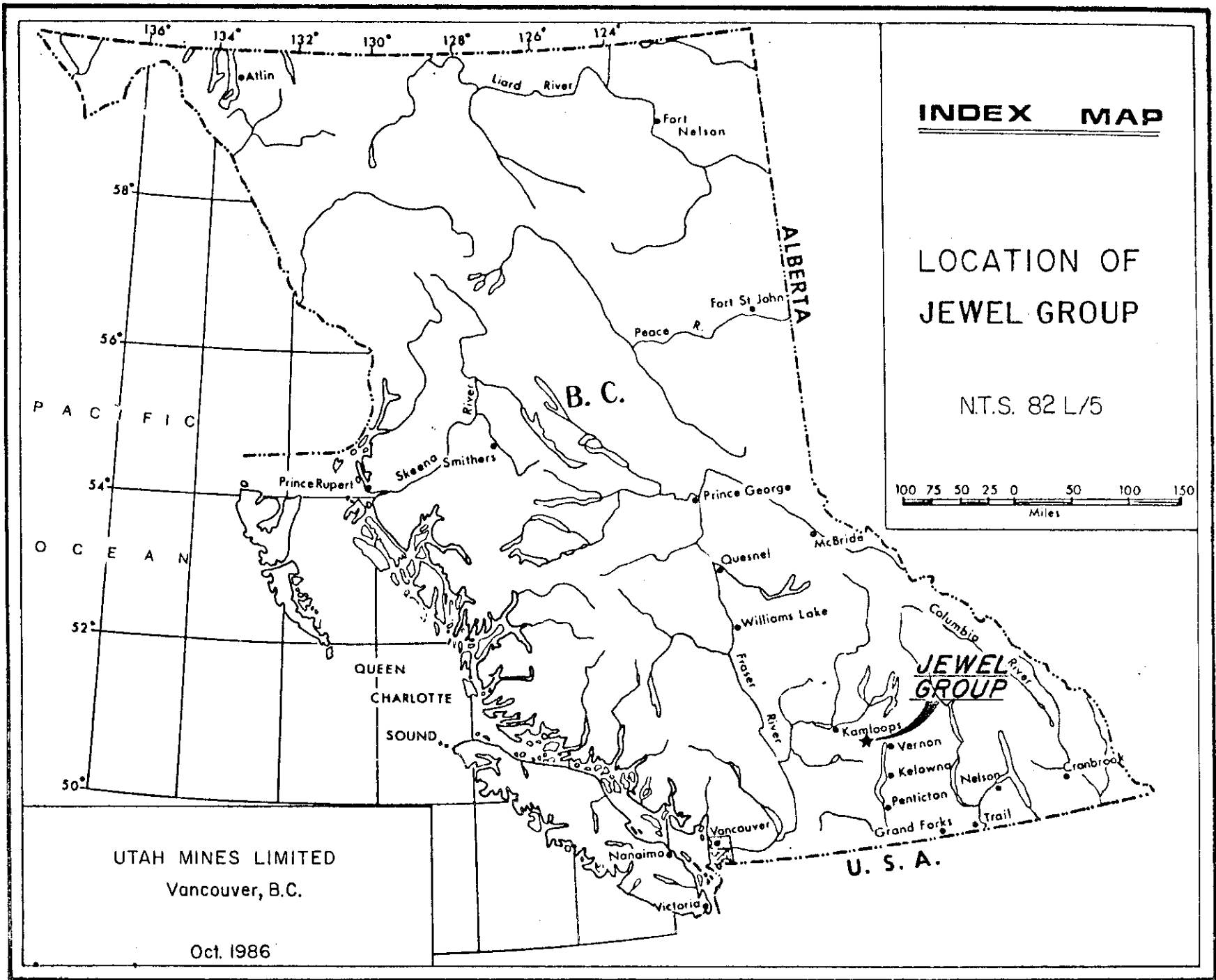
The claim status is as follows before assessment with this report in filed.

<u>Claim Name</u>	<u>Record No.</u>	<u>Record Date</u>	<u>Expiry Date</u>
Pearl	27581	Dec. 10, 1957	Dec. 10, 1986
Ruby	27582	"	"
Opal	27583	"	"
Topaz	27584	"	"

Geology

The area of the claims is underlain by Upper Paleozoic Cache Creek group rocks cut by granodiorite and quartz-feldspar bodies that are related to the Cretaceous Coast Batholith Intrusion. The above sequence is capped by a thick sequence of basaltic to rhyolitic flows, agglomerates, tuffs and minor sediments of Tertiary age.

The Cache Creek group rocks consist of altered and unaltered varied colored fine to coarse grained tuffs, calcareous argillites, grey weathering limestones.



In the area of the mineralization, where the rocks have been highly altered and fractured, discernable faults and some cherty tuffs were noted. A granodiorite intrusive and dyke of quartz-feldspar porphyry (altered) were noted to cut the sediments. Diamond drilling in the area intersected the intrusive granodiorite at no great depth, after cutting a mixed sequence of tuffs, cherts and silicified sediments.

Mineralization consists of malachite, azurite, chalcopryrite, pyrite and limonite-goethite as disseminations and fracture fillings. Visible concentrations of copper mineralization appear to be associated with quartz-feldspar dyking and faults or fracturing, while the gold values do not appear to be associated with any one feature or discernable rock type although they are not found in the intrusives. Gold values appear to be mostly associated with heavy goethite-limonite fault zone. These fault zones are not traceable over any distance, the longest being 2-3 metres while the width may vary from 10 to 20 cm. Values in the sampling of the area, from various rock exposures range from 5 ppb to 0.434 oz/ton Au.

Conclusions

The area is anomalous in gold particularly in the area of the trenching with several samples returning values above the 100 ppb Au range.

Although there are some spectacular gold assays from narrow zones (0.434 oz/ton across 1 metre), these zones do not appear to be continuous over great distances.

A small body of "disseminated" gold that could probably be mined by open pit methods may occur in the area. This area would probably be in the sediments - volcanics of the Cache Creek Group near the intrusive contact.

A handwritten signature in black ink, appearing to be 'J. R. ...', written in a cursive style with a long horizontal line extending to the right.

APPENDIX I

CERTIFICATION

I, JOHN RAYMOND DEIGHTON, of 3250 West 33rd Avenue, Vancouver, British Columbia, do hereby certify that:

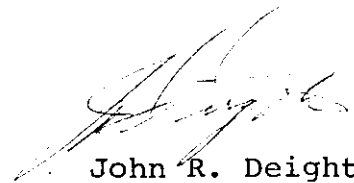
I am a graduate of the University of British Columbia, with a Bachelor of Science Degree in Geology, 1965.

Since graduation I have been engaged in Mineral Exploration in British Columbia, Yukon, Northwest Territories, Washington, Arizona and California.

I am a Fellow of the Geological Association of Canada and of the Canadian Institute of Mining and Metallurgy.

I am a Geologist

Vancouver, B. C.



John R. Deighton
Geologist

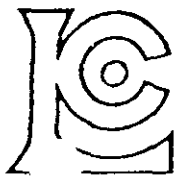
APPENDIX II

STATEMENT OF COSTS

Salaries		
J.R. Deighton - Geologist	\$ 980.00	
4 days @ 245.00		
May 21, July 14, 15, October 27		
Ram Gopal - Draftman	\$ 154.00	
1 day @ 154.00		
October 28, 1986		
		<hr/>
		\$1,134.00
Assaying	\$ 15.50	
2 samples fire assayed 7.75		
15 samples ICP (30 element) Au	\$ 236.25	
fire assayed @ 15.75		
		\$ 251.75
Transportation		
3 days 4X4 truck @ 31.45/day	\$ 94.35	
1000 Km @ 8¢/k	<u>80.00</u>	
		\$ 174.35
Report Preparation		\$ 40.00
 TOTAL EXPENDITURE		<u>\$1,600.00</u>



APPENDIX III



Chemex Labs Ltd.

Analytical Chemists · Geochemists · Registered Assayers

212 Brooksbank Ave.
North Vancouver, B.C.
Canada V7J 2C1
Phone: (604) 984-0221
Telex: 043-52597

CERTIFICATE OF ASSAY

TO : UTAH MINES LIMITED

1600 - 1050 W. PENDER ST.
VANCOUVER, B.C.
V6E 3S7

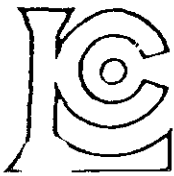
CERT. # : A8613241-001-A
INVOICE # : I8613241
DATE : 6-JUN-36
P.C. # : NONE
B-C GEN

ATTN: J. R. DEIGHTON

Sample description	Prep code	Au FA oz/T					
86-BDT-13	214	0.434	--	--	--	--	--
86-BDT-15	214	0.282	--	--	--	--	--

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.....
Registered Assayer, Province of British Columbia



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Phone: (604) 984-0221
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CERTIFICATE OF ANALYSIS

TO : UTAH MINES LIMITED

1600 - 1050 W. PENDER ST.
VANCOUVER, B.C.
V6E 3S7

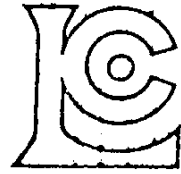
CERT. # : A8613094-001-A
INVOICE # : I8613094
DATE : 2-JUN-86
P.O. # : NCNE
B.C. GEN

ATTN: J. R. DEIGHTON

Sample description	Prep code	Au ppb FA+AA						
86-BDT-01	205	<5	--	--	--	--	--	--
86-BDT-02	205	230	--	--	--	--	--	--
86-BDT-03	205	<5	--	--	--	--	--	--
86-BDT-04	205	<5	--	--	--	--	--	--
86-BDT-05	205	<5	--	--	--	--	--	--
86-BDT-06	205	55	--	--	--	--	--	--
86-BDT-07	205	270	--	--	--	--	--	--
86-BDT-08	205	<5	--	--	--	--	--	--
86-BDT-09	205	<5	--	--	--	--	--	--
86-BDT-10	205	790	--	--	--	--	--	--
86-BDT-11	205	120	--	--	--	--	--	--
86-BDT-12	205	35	--	--	--	--	--	--
86-BDT-13	205	>10000	--	--	--	--	--	--
86-BDT-14	205	120	--	--	--	--	--	--
86-BDT-15	205	10000	--	--	--	--	--	--
86-BDT-16	205	1200	--	--	--	--	--	--
86-BDT-17	205	1550	--	--	--	--	--	--
86-BDT-20	205	50	--	--	--	--	--	--
86-BDT-21	205	15	--	--	--	--	--	--
86-BDT-22	205	<5	--	--	--	--	--	--
86-BDT-23	205	5	--	--	--	--	--	--
86-BDT-24	205	<5	--	--	--	--	--	--

Certified by Hart Bichler

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CERTIFICATE OF ANALYSIS

TO : UTAH MINES LIMITED

1600 - 1050 W. PENDER ST.
VANCOUVER, B.C.
V6E 3E7

CERT. # : A9613095-001-A
INVOICE # : I8613095
DATE : 30-MAY-86
P.O. # : NONE
B.C. GEN

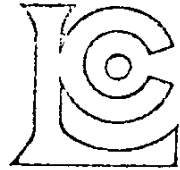
Semi quantitative multi element ICP analysis

Nitric-Aqua-Regia digestion of 0.5 gm of material followed by ICP analysis. Since this digestion is incomplete for many minerals, values reported for Al, Sb, Ba, Be, Ca, Cr, Ga, La, Mg, K, Na, Sr, Tl, Ti, W and V can only be considered as semi-quantitative.

COMMENTS :
ATTN: J. R. DEIGHTON

Sample description	Al	Ag	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La	Hg	Mn	Mo	Na	Ni	P	Pb	Sb	Sr	Ti	Tl	U	V	W	Zn		
	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm			
86-BDT-06	3.61	0.2	30	100	<0.5	<2	1.89	<0.5	52	15	288	8.08	20	0.57	10	1.49	964	<1	0.06	11	600	22	<10	156	0.04	<10	<10	142	<10	310	--	--
86-BDT-07	1.46	2.6	60	60	<0.5	2	1.43	<0.5	24	50	1136	4.89	<10	0.09	10	0.63	362	<1	0.13	11	500	38	<10	47	0.14	<10	<10	63	<10	170	--	--
86-BDT-08	2.22	0.2	10	110	<0.5	<2	0.37	<0.5	23	54	69	6.10	<10	0.43	20	0.95	426	<1	0.03	47	940	4	<10	40	0.04	<10	<10	102	<10	100	--	--
86-BDT-09	1.30	0.2	10	40	<0.5	<2	3.12	<0.5	10	37	98	1.91	10	0.03	<10	0.68	341	<1	0.20	6	750	6	<10	46	0.09	<10	<10	56	<10	40	--	--
86-BDT-10	1.84	23.0	40	40	<0.5	10	1.57	<0.5	22	49	3804	7.40	10	0.17	60	0.83	555	1	0.03	8	620	194	<10	50	0.05	<10	<10	137	<10	310	--	--
86-BDT-11	2.13	2.6	60	20	<0.5	<2	1.34	<0.5	13	40	9375	3.34	10	0.07	20	1.06	264	<1	0.05	7	820	<2	<10	70	0.01	<10	<10	47	<10	120	--	--
86-BDT-12	1.43	0.4	40	30	<0.5	2	2.09	<0.5	6	77	1685	1.62	10	0.08	10	0.80	229	<1	0.13	5	480	6	<10	65	0.16	<10	<10	35	<10	70	--	--
86-BDT-13 x	0.93	40.0	120	40	<0.5	188	0.15	<0.5	11	92	1111	17.63	<10	0.11	10	0.31	375	>11	0.02	4	250	986	30	19	0.02	<10	<10	394	<10	460	--	--
86-BDT-14	1.52	2.0	30	50	<0.5	<2	1.93	3.5	12	52	638	5.02	10	0.24	<10	0.56	648	<1	0.03	9	1390	56	<10	17	0.03	<10	<10	75	<10	680	--	--
86-BDT-15 x	2.46	22.0	40	30	<0.5	78	1.47	<0.5	14	33	1743	9.93	10	0.15	<10	0.76	812	x 2	0.02	4	550	192	<10	28	<0.01	<10	<10	134	<10	390	--	--
86-BDT-16	2.99	3.8	40	40	<0.5	12	0.53	<0.5	35	35	3868	10.36	10	0.14	<10	1.04	882	<1	0.02	6	720	24	<10	54	0.01	<10	<10	121	<10	750	--	--
86-BDT-17 x	1.90	46.0	70	40	<0.5	26	0.91	<0.5	13	82	>9999	11.76	10	0.29	20	0.42	452	x 4	0.01	5	4490	68	20	129	0.01	<10	<10	155	<10	500	--	--

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CERTIFICATE OF ANALYSIS

TO : UTAH MINES LIMITED
1600 - 1050 W. PENDER ST.
VANCOUVER, B.C.
V6E 3S7

CERT. # : A8615321-001-A
INVOICE # : I8615321
DATE : 30-JUL-86
P.O. # : NONE
B. C. GENERAL

Semi quantitative multi element ICP analysis

Nitric-Aqua-Regia digestion of 0.5 gm of material followed by ICP analysis. Since this digestion is incomplete for many minerals, values reported for Al, Sb, Ba, Be, Ca, Cr, Ga, La, Mg, K, Na, Sr, Tl, Ti, W and V can only be considered as semi-quantitative.

COMMENTS :
ATTN: J. DEIGHTON

Sample description	Au ppb	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
--------------------	--------	------	--------	--------	--------	--------	--------	------	--------	--------	--------	--------	------	--------	-----	--------	------	--------	--------	------	--------	-------	--------	--------	--------	------	--------	-------	-------	-------	--------

86B01-92	<5	2.30	0.2	10	90	<0.5	<2	2.58	<0.5	19	70	47	5.78	20	0.05	<10	1.64	1106	<1	0.03	12	730	12	<10	36	0.03	<10	<10	189	<10	90	--
86B01-93	70	1.64	0.2	20	440	<0.5	<2	2.24	<0.5	15	90	30	4.57	20	0.11	<10	1.43	566	<1	0.05	19	900	10	10	82	0.02	<10	<10	93	<10	30	--
86B01-94	<5	1.60	0.2	10	40	<0.5	<2	0.57	<0.5	10	76	347	3.16	10	0.19	10	1.27	172	<1	0.04	17	490	8	<10	10	<0.01	<10	<10	48	<10	20	--

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- > Trench
- ~ ~ ~ ~ ~ Fault
- 30° Strike & Dip of Fault or Bedding
- Debris
- x 86BDT-9 Rock sample & Number
- ✓ Rock Chip Sample
- Road
- > Dry creek with flow direction

SCALE 1:1000
 0 10 20 30 40 50
 METRES

GEOLOGICAL BRANCH
 ASSESSMENT REPORT

15,302
 UTAH MINES LTD.
 SKETCH MAP
 OF
 JEWEL GROUP

N.T.S. B2 L/5E

Compiled by John Deighton
 (Work done in May & June, 86)
 Drawn by R.N. Gopal
 Oct 28, 1986