

CROWNEX-MINERAL PROPERTY REPORT

LOUISE 87

18570

LOG NO:	SEP 22 1992	RD.
ACTION:	<i>Ed.</i>	
FILE NO:		

TITLE PAGE

CLAIM NAME Louise 87
CLAIM NUMBER ²¹⁵⁰³⁶~~4538~~ SN AW - 20 units
LOT NUMBER _____
MINING DISTRICT Greenwood
LAND DISTRICT S.D.Y.D.
MAP SHEET NTS 82E/2W
LAT. 49° 07' N 30" LONG. 118° 51' W
OWNER D. GERONAZZO
PROSPECTOR S. Ruzicka / R. Miller

RECEIVED

SEP 21 1992

GOVERNMENT AGENT
GRAND FORKS

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CROWNEX - MINERAL PROPERTY REPORT

PROPERTY NAME Louise 87 SITE VISIT Yes () No ()
 PROV B.C. MINING DIST Greenwood GEOLOGIST R. Miller
 TARGET disseminated gold @ Contact DATE Sept. 1, 1992
 QUAD: NTS 82 E/2W COMMODITY _____
 UTM COORDINATE Zone Northing Easting Nearest Town
Lat/Long, 49° 07' 118° 52' Midway
 CLAIM INFORMATION 20 UNITS 5N X 4W Record No 4538
Expires June 24, 1992 pending report.
 OWNER: D. Geronazzo
 TELEPHONE: (604) 442-8294
 PROPERTY PROSPECTOR: Stan Ruzicka
 TELEPHONE: (604) 442-3416

GEOLOGY: Mainly underlain by Knab Hill Group cherts and greenstone to the south. Eocene kettle River Formation outcrops consisting of arkosic and lithic tuffaceous sediment. All of the volcanic and rock sedimentary sequences have been intruded by Tertiary-Cretaceous Nelson intrusions and Tertiary dykes.

STRUCTURE: East-West Wallace Creek Fault lies just to the north of the property. An unnamed East-West fault, bounded by a northeast striking normal fault, in the southern portion of the property separates Knab Hill rocks from the Eocene Kettle River Formation.

GEOPHYSICS: Magnetometer over gold soil lines - shows very weak correlation with suspected diorite/metasediment contact. IP might be better technique for outlining the disseminated sulfides in the contact aureole.

GEOCHEMISTRY: gold in soil and rock chips show that gold is associated with the diorite/metasediment contact and that in addition maybe correlated with arsenopyrite. The high grade soil sample was obtained in a disturbed area of exposed mineralization.

NO. SAMPLES COLLECTED: 37 rocks % DETECTIBLE AU: 100 HI VALUE 5776 ppb
44 soils 19/44 : 32 > 10,000 ppb (0.85 opt)

MINERALIZATION AND ALTERATION: Massive to disseminated sulfides along diorite/metasediment contact pyrite, pyrrhotite, chalcopyrite, arsenopyrite; silicification and fracture ground prep.

CONCLUSION: Gold is present along a diorite/metasediment contact. Surface mineable bulk tonnage targets are a possibility.

RECOMMENDATIONS: Extend the soil and rock chip sampling program for gold to other areas of the claim. Map the diorite/metasediment contacts. Conduct an IP survey over gold enriched areas along the contact. Drill favorable targets developed in the initial program.

EXPENDITURES

Field Expenses:

Man Field Days: (\$)p

Geologist	R. E. Miller Myron Sawiuk	<u>\$1550.⁰⁰</u>
Prospector	S. Ruzicka	<u>\$ 200.⁰⁰</u>
Field Assistant	M. F. Wilson K. Anshetz	<u>\$ 960.⁰⁰</u>
Vehicle	8 days x \$65 ⁰⁰ / day	<u>\$ 520.⁰⁰</u>
Lodging and Meals		<u> </u>
Misc.		<u> </u>

Geologic Expenses:

Assays		<u>\$1700.⁰⁰</u>
Shipping		<u> </u>
Equipment Rental	1wk @ \$250 ⁰⁰ /wk Magnetometer	<u>\$ 250.⁰⁰</u>
Literature and Maps		<u> </u>
Misc.		<u> </u>

Office Expenses:

Drafting and Reproduction		<u> </u>
Report Preparation		<u>\$ 600.⁰⁰</u>
Misc.		<u> </u>

TOTAL:

\$ 5780.⁰⁰

QUALIFICATIONS

STAN RUZICKA

Prospecting Course by Dr. Wm White, Dept of Geology, U.B.C.

Summer 1953

Prospecting Course given by George Addy, Mines Inspector,

Nelson Fall 1977

Prospecting and sampling rock, soil, sediments for:

Gevast Holdings Ltd. 1978 - 79

Kelsey Exploration Ltd. (Yukon) 1980

Skylark Resources Ltd. 1987

Crownex 1991

Leased, mined and shipped ore to the Trail Smetler from the
D.A. and Gold Bug Claims 1954

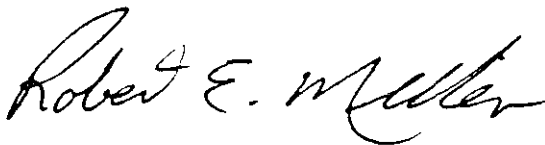
Enterprize and Paddy Claims 1963

STATEMENT OF QUALIFICATIONS

I, ROBERT MILLER, of Oroville, Washington, DO HEREBY CERTIFY THAT:

1. I am a geologist with Crown Resources Corporation, with a business address of Star Route 85, Oroville, Washington 98844.
2. I am a 1962 graduate from Brigham Young University with a Geological Engineering degree.
3. I have practised my profession continuously since graduation.
4. I personally conducted the 199 exploration program discussed in this report.

Dated this 26th day of Sept, 1992 .



Robert E. Miller
Geological Engineer

REFERENCES

- Church, B.N. 1985 Geology and Mineralization in The Mount Attwood - Phoenix Area, Greenwood, B.C..
- Little, H.W. 1983 - Geology of the Greenwood Map - Area G.S.C. 79-29.
- Sookochoff, L. and H. Kim, Report of the Initial Geophysical, Geochemical and Geological Exploration of the Louise Claim Group for Pricam Explorations Inc., January 12, 1988.

APPENDIX

APPENDIX A

ASSAYS (attached commercial sheets)

APPENDIX B

MAPS

APPENDIX C

GEOLOGIC REPORT - R. Miller
Geological Engineer
Crown Resources
June 1992

APPENDIX A



Chemex Labs Ltd.

Analytical Chemists

Geochemists

Registered Assayers

212 Brooksbank Ave.
North Vancouver, B.C.
Canada V7J 2C1

Phone: (604) 984-0221

Telex: 04-352597

Fax: (604) 984-0218

Au (oz/T) : Code 398

Gold analysis is carried out by standard fire assay techniques. In the sample preparation stage the screens are checked for metallics which, if present, are assayed separately and calculated into the results obtained from the pulp assay.

A 0.5 assay ton sample is fused with a neutral flux inquarted with 2 mg of Au-free silver and then cupelled.

Silver beads for AA finish are digested for 1/2 hour in 1 ml HNO₃, then 3 ml HCl is added and digested for 1 hour. The samples are cooled and made to a volume of 10 ml, homogenized and run on the AAS with background correction.

Detection Limit 0.002 oz/T

Code 981 is the same as 398, but performed on a rush basis.

Gold FA-AA ppb - Chemex Code 100

A 10 gram sample is fused with a neutral flux inquarted with 6 mg of Au-free silver and then cupelled.

Silver beads for AA finish are digested for 1/2 hour in 0.5 ml HNO₃, then 1.5 ml HCl is added and digested for 1 hour. The samples are cooled and made to a volume of 5 ml, homogenized and run on the AAS with background correction.

Detection limit: 5 ppb



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 994 West Glendale Ave., Suite 7, Sparks,
 Nevada, U.S.A. 89431
 PHONE: 702-356-5395

CROWN RESOURCE CORPORATION

820 16TH ST., STE. 415
 DENVER, COLORADO
 80202

A9026091

Comments: ATTN: CHRIS HERALD CC: J. SHANNON CC: R. MILLER

CERTIFICATE

A9026091

CROWN RESOURCE CORPORATION

Project: MIDWAY
 P.O. #:

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 8-NOV-90.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	10	Geochem ring to approx 150 mesh
294	10	Crush and split (0-10 pounds)
238	10	NITRIC-AQUA REGIA DIGESTION

* 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

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
100	10	Au ppb: Fuse 10 g sample	FA-AAS	5	10000
922	10	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
921	10	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
923	10	As ppm: 32 element, soil & rock	ICP-AES	5	10000
924	10	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
925	10	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
926	10	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
927	10	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
928	10	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
929	10	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
930	10	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
931	10	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
932	10	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
933	10	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
951	10	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
934	10	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
935	10	La ppm: 32 element, soil & rock	ICP-AES	10	10000
936	10	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
937	10	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
938	10	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
939	10	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
940	10	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
941	10	P ppm: 32 element, soil & rock	ICP-AES	10	10000
942	10	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
943	10	Sb ppm: 32 element, soil & rock	ICP-AES	5	10000
958	10	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
944	10	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
945	10	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
946	10	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
947	10	U ppm: 32 element, soil & rock	ICP-AES	10	10000
948	10	V ppm: 32 element, soil & rock	ICP-AES	1	10000
949	10	W ppm: 32 element, soil & rock	ICP-AES	10	10000
950	10	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



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 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221

To: CROWN RESOURCE CORPORATION
 SEVENTEENTH STREET PLAZA
 1225 17TH ST., STE. 1500
 DENVER, COLORADO
 80202

Page Number :1-A
 Total Pages :1
 Certificate Date: 30-JUN-92
 Invoice No. :19216415
 P.O. Number :5102
 Account :JXX

Project : CAN RECON
 Comments: ATTN: C. HERALD CC: R. MILLER CC: J. SHANNON CC: M. SAWIUK

CERTIFICATE OF ANALYSIS A9216415

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As 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 %	Mn ppm
92CCK100R	205 274	40	< 0.2	2.84	48	220	< 0.5	2	1.27	< 0.5	9	62	48	3.85	< 10	1	0.44	< 10	0.96	865
92CCK101R	205 274	200	1.4	1.91	216	40	< 0.5	4	2.02	< 0.5	71	47	347	5.53	< 10	< 1	0.08	< 10	0.30	530
92CCK102R	205 274	475	1.2	0.05	58	< 10	< 0.5	10	0.13	< 0.5	90	28	2160	>15.00	< 10	< 1	0.02	< 10	0.10	270
92CCK103R	205 274	20	0.4	0.42	316	40	< 0.5	< 2	0.09	< 0.5	6	170	95	1.76	< 10	< 1	0.05	< 10	0.19	145
92CCK104R	205 274	40	< 0.2	3.73	20	190	< 0.5	2	1.20	< 0.5	14	198	106	3.44	< 10	< 1	1.09	10	1.45	850
92CCK105R	205 274	45	0.4	1.70	14	560	< 0.5	< 2	0.15	< 0.5	21	112	255	3.34	< 10	< 1	0.66	10	1.06	1170
92CCK106R	205 274	50	< 0.2	2.19	< 2	380	< 0.5	6	0.34	< 0.5	16	254	138	3.29	< 10	< 1	1.05	10	1.54	935
92CCK107R	205 274	35	0.2	1.64	24	940	< 0.5	< 2	0.12	< 0.5	7	176	123	3.14	< 10	< 1	0.57	10	1.08	715
92CCK108R	205 274	20	0.2	3.86	20	310	< 0.5	< 2	1.53	< 0.5	11	233	77	3.23	< 10	< 1	0.95	< 10	1.25	945
92CCK109R	205 274	15	< 0.2	2.35	24	1860	< 0.5	4	0.19	< 0.5	7	157	46	3.55	< 10	< 1	0.87	10	1.24	790
92CCK110R	205 274	10	0.2	2.29	74	1680	< 0.5	< 2	2.76	< 0.5	4	188	47	2.71	< 10	3	0.56	< 10	1.06	1115
92CCK111R	205 274	10	0.4	2.43	20	820	< 0.5	< 2	0.39	< 0.5	3	215	50	3.04	< 10	1	0.74	10	1.02	710
92CCK112R	205 274	10	0.2	1.59	4	620	< 0.5	4	0.47	< 0.5	6	262	71	2.68	< 10	< 1	0.74	10	0.72	735
92CCK113R	205 274	15	< 0.2	1.66	14	310	< 0.5	4	0.29	< 0.5	13	244	120	3.11	< 10	< 1	0.40	10	0.83	730
92CCK114R	205 274	65	< 0.2	0.95	16	230	< 0.5	2	0.44	< 0.5	8	242	115	2.37	< 10	< 1	0.24	10	0.45	285
92CCK115R	205 274	10	< 0.2	4.11	< 2	840	< 0.5	2	1.36	< 0.5	22	75	94	6.04	< 10	< 1	1.60	< 10	2.51	690
92CCK116R	205 274	230	0.4	0.78	198	30	< 0.5	< 2	4.18	< 0.5	5	95	75	5.55	< 10	< 1	0.09	< 10	0.27	2270
92CCK117R	205 274	20	0.4	2.19	52	170	< 0.5	< 2	1.12	< 0.5	9	66	84	3.72	< 10	< 1	0.43	20	1.14	600
92CCK118R	205 274	40	< 0.2	1.91	258	60	< 0.5	< 2	0.19	< 0.5	6	41	15	5.75	< 10	1	0.31	< 10	0.23	1070
92CCK119R	205 274	15	0.2	1.21	14	1400	< 0.5	2	0.07	< 0.5	15	100	118	2.35	< 10	< 1	0.45	10	0.69	895
92CCK120R	205 274	10	< 0.2	2.44	10	740	< 0.5	< 2	0.41	< 0.5	13	200	66	3.56	< 10	< 1	1.01	10	1.45	1110
92CCK121R	205 274	25	< 0.2	1.60	6	1170	< 0.5	< 2	0.70	< 0.5	16	124	68	3.19	< 10	1	0.57	< 10	1.43	700
92CCK122R	205 274	40	< 0.2	1.29	10	320	< 0.5	< 2	0.14	< 0.5	7	152	62	1.71	< 10	< 1	0.40	10	0.83	415
92CCK123R	205 274	100	1.2	1.19	246	40	< 0.5	6	1.22	< 0.5	25	152	821	10.85	< 10	< 1	0.04	30	0.27	320
92CCK124R	205 274	135	0.2	1.62	208	150	< 0.5	4	1.28	< 0.5	9	190	88	3.15	< 10	< 1	0.04	10	0.48	560
92CCK125R	205 274	75	0.2	1.58	166	150	< 0.5	< 2	0.61	< 0.5	8	194	124	3.87	< 10	< 1	0.16	10	0.66	425
92CCK126R	205 274	200	0.8	1.76	52	100	< 0.5	2	1.54	< 0.5	5	229	315	2.63	10	< 1	0.06	< 10	0.46	325
92CCK127R	205 274	310	0.8	1.31	156	300	< 0.5	< 2	0.76	< 0.5	6	168	85	5.12	10	< 1	0.35	< 10	0.52	215
92CCK128R	205 274	135	0.2	0.43	30	50	< 0.5	< 2	0.02	< 0.5	1	156	43	1.70	< 10	< 1	0.05	< 10	0.21	110
92CCK129R	205 274	55	< 0.2	3.03	314	1400	< 0.5	< 2	0.39	< 0.5	17	89	80	6.03	10	4	1.32	10	1.24	530

CERTIFICATION:

Jhai D Ma



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221

To: CROWN RESOURCE CORPORATION
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 DENVER, COLORADO
 80202

Page Number :1-B
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 P.O. Number :5102
 Account :JXX

Project : CAN RECON
 Comments: ATTN: C. HERALD CC: R. MILLER CC: J. SHANNON CC: M. SAWIUK

CERTIFICATE OF ANALYSIS A9216415

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
92CCK100R	205 274	1	0.28	4	920	< 2	6	11	100	0.17	< 10	< 10	107	< 10	92
92CCK101R	205 274	3	0.13	54	290	6	12	5	74	0.19	< 10	< 10	51	< 10	30
92CCK102R	205 274	< 1	< 0.01	102	160	< 2	20	2	1	< 0.01	< 10	< 10	52	< 50	28
92CCK103R	205 274	1	< 0.01	12	70	< 2	2	2	4	< 0.01	< 10	< 10	27	< 10	16
92CCK104R	205 274	3	0.43	38	770	< 2	2	12	83	0.13	< 10	< 10	105	< 10	42
92CCK105R	205 274	< 1	0.01	93	590	< 2	4	9	6	0.10	< 10	< 10	44	< 10	48
92CCK106R	205 274	4	0.11	63	740	< 2	2	14	16	0.17	< 10	< 10	108	< 10	44
92CCK107R	205 274	6	0.03	30	480	< 2	2	10	9	0.09	< 10	< 10	127	< 10	34
92CCK108R	205 274	1	0.30	33	590	< 2	< 2	11	93	0.15	< 10	< 10	107	< 10	66
92CCK109R	205 274	6	0.08	23	610	2	4	14	17	0.14	< 10	< 10	128	< 10	68
92CCK110R	205 274	3	0.05	23	520	4	2	8	96	0.09	< 10	< 10	106	< 10	84
92CCK111R	205 274	5	0.14	18	560	4	4	10	36	0.11	< 10	< 10	122	< 10	60
92CCK112R	205 274	10	0.07	26	950	8	2	8	34	0.07	< 10	< 10	110	< 10	92
92CCK113R	205 274	2	0.07	35	460	< 2	2	7	17	0.07	< 10	< 10	87	< 10	56
92CCK114R	205 274	1	0.02	18	1950	< 2	2	4	5	0.02	< 10	< 10	76	< 10	18
92CCK115R	205 274	2	0.32	35	860	< 2	8	21	52	0.22	< 10	< 10	216	< 10	50
92CCK116R	205 274	1	0.07	9	1640	< 2	6	3	18	0.08	< 10	< 10	73	< 10	54
92CCK117R	205 274	1	0.20	9	1180	6	2	7	102	0.12	< 10	< 10	99	< 10	92
92CCK118R	205 274	1	0.01	2	840	< 2	4	4	7	< 0.01	< 10	< 10	43	< 10	34
92CCK119R	205 274	1	0.01	87	230	2	< 2	6	4	0.09	< 10	< 10	21	< 10	50
92CCK120R	205 274	3	0.10	55	880	< 2	4	12	21	0.15	< 10	< 10	130	< 10	78
92CCK121R	205 274	6	0.10	38	490	< 2	4	11	14	0.13	< 10	< 10	128	< 10	44
92CCK122R	205 274	1	0.04	41	270	2	< 2	6	12	0.03	< 10	< 10	35	< 10	22
92CCK123R	205 274	3	0.09	51	2500	< 2	6	3	32	0.06	< 10	< 10	119	< 10	20
92CCK124R	205 274	10	0.15	22	1130	2	4	5	42	0.09	< 10	< 10	98	< 10	28
92CCK125R	205 274	10	0.09	40	1070	2	2	5	24	0.03	< 10	< 10	107	< 10	44
92CCK126R	205 274	4	0.17	32	1070	2	< 2	5	57	0.10	< 10	< 10	70	< 10	32
92CCK127R	205 274	10	0.09	18	2390	2	4	4	52	0.03	< 10	< 10	136	< 10	16
92CCK128R	205 274	13	< 0.01	7	170	< 2	< 2	2	1	< 0.01	< 10	< 10	33	< 10	8
92CCK129R	205 274	6	0.12	25	740	< 2	4	18	45	0.15	< 10	< 10	174	< 10	40

CERTIFICATION: *Jhai J Ma*



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To: CROWN RESOURCE CORPORATION
 SEVENTEENTH STREET PLAZA
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 80202

Page: ber :1-A
 Total : :1
 Certificate Date: 02-JUL-92
 Invoice No. :19216504
 P.O. Number :5113
 Account :JXX

Project: MIDWAY
 Comments: ATTN: C. HERALD R. MILLER CC: J. SHANNON CC: M. SAWIUK

CERTIFICATE OF ANALYSIS A9216504

SAMPLE	PREP CODE		Au ppb	Ag	Al	As	Ba	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn
	FA+AA	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	
92CCK130R	205	274	5770	1.6	1.23	>10000	40	1.5	12	0.18	25.0	21	96	241	6.32	10	< 1	0.55	< 10	0.61	350
92CCK131R	205	274	65	0.2	2.25	1390	120	2.0	2	0.58	3.7	10	64	111	4.32	10	< 1	0.44	< 10	1.18	750
92CCK132R	205	274	115	3.0	0.75	730	80	2.0	28	0.12	0.8	3	175	134	5.77	10	< 1	0.21	< 10	0.22	135
92CCK133R	205	274	2530	4.0	1.34	406	90	2.0	18	0.06	1.3	3	244	149	4.84	< 10	1	0.25	< 10	0.41	220
92CCK134R	205	274	3830	8.2	0.69	5310	< 10	1.0	48	0.19	51.0	32	243	1205	13.40	10	< 1	0.02	< 10	0.19	180
92CCK135R	205	274	3540	5.6	0.06	3380	10	1.0	30	0.03	0.4	3	421	224	3.31	< 10	1	< 0.01	< 10	< 0.01	60
92CCK136R	205	274	1660	3.2	0.09	>10000	< 10	2.0	14	0.02	2.1	6	307	86	4.34	< 10	< 1	< 0.01	< 10	< 0.01	20

CERTIFICATION: *Yhai J Ma*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: CROWN RESOURCE CORPORATION
SEVENTEENTH STREET PLAZA
1225 17TH ST., STE. 1500
DENVER, COLORADO
80202

Page Number : 1-B
Total Pages : 1
Certificate Date: 02-JUL-92
Invoice No. : 19216504
P.O. Number : 5113
Account : JXX

Project : MIDWAY
Comments: ATTN: C. HERALD CC: R. MILLER CC: J. SHANNON CC: M. SAWIUK

CERTIFICATE OF ANALYSIS A9216504

SAMPLE	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
92CCK130R	205	274	4	0.05	24	410	32	18	10	7	0.04	< 10	< 10	73	< 10	780
92CCK131R	205	274	1	0.08	3	800	< 2	4	7	24	0.04	< 10	< 10	73	< 10	226
92CCK132R	205	274	3	0.06	3	270	2	6	3	24	0.02	< 10	< 10	33	< 10	74
92CCK133R	205	274	2	0.03	3	320	30	2	3	8	< 0.01	< 10	< 10	33	< 10	256
92CCK134R	205	274	3	< 0.01	6	30	12	10	2	5	< 0.01	< 10	< 10	11	< 10	2740
92CCK135R	205	274	3	< 0.01	4	20	2	44	1	5	< 0.01	< 10	< 10	6	20	64
92CCK136R	205	274	3	< 0.01	3	20	8	16	< 1	6	< 0.01	< 10	< 10	5	< 10	166

CERTIFICATION:

Yhai D Ma



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221

To: CROWN RESOURCE CORPORATION
 SEVENTEENTH STREET PLAZA
 1225 17TH ST., STE. 1500
 DENVER, COLORADO
 80202

Page Number :2
 Total Pages :3
 Certificate Date: 29-JUN-92
 Invoice No. :19216414
 P.O. Number :5080
 Account :JXX

Project : CAN RECON
 Comments: ATTN: C. HERALD CC: R. MILLER CC: J. SHANNON CC: M. SAWIUK

CERTIFICATE OF ANALYSIS	A9216414
--------------------------------	-----------------

SAMPLE	PREP CODE	Au ppb FA+AA	Au FA oz/T						
450E 1000N	201 ---	< 5	-----						
550E 0000N	201 ---	< 5	-----						
550E 0050N	201 ---	< 5	-----						
550E 0100N	201 ---	10	-----						
550E 0150N	201 ---	5	-----						
550E 0200N	201 ---	20	-----						
550E 0250N	201 ---	< 5	-----						
550E 0300N	201 ---	< 5	-----						
550E 0350N	201 ---	< 5	-----						
550E 0400N	201 ---	35	-----						
550E 0450N	201 ---	>10000	0.848						
550E 0500N	201 ---	35	-----						
550E 0550N	201 ---	40	-----						
550E 0650STN	201 ---	30	-----						
550E 0600N	201 ---	50	-----						
550E 0650N	201 ---	25	-----						
550E 0700N	201 ---	< 5	-----						
550E 0750N	201 ---	< 5	-----						
550E 0800N	201 ---	< 5	-----						
550E 0850N	201 ---	< 5	-----						
550E 0900N	201 ---	4560	-----						
550E 0950N	201 ---	< 5	-----						
550E 1000N	201 ---	< 5	-----						
L650E 0000N	201 ---	< 5	-----						
L650E 0050N	201 ---	20	-----						
L650E 0100N	201 ---	< 5	-----						
L650E 0150N	201 ---	< 5	-----						
L650E 0200N	201 ---	< 5	-----						
L650E 0250N	201 ---	< 5	-----						
L650E 0300N	201 ---	< 5	-----						
L650E 0350N	201 ---	35	-----						
L650E 0400N	201 ---	< 5	-----						
L650E 0450N	201 ---	< 5	-----						
L650E 0500N	201 ---	< 5	-----						
L650E 0550N	201 ---	55	-----						
L650E 0600N	201 ---	< 5	-----						
L650E 0650N	201 ---	< 5	-----						
L650E 0700N	201 ---	< 5	-----						
L650E 0750N	201 ---	< 5	-----						
L650E 0800N	201 ---	< 5	-----						

CERTIFICATION: _____

Handwritten signature



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

June 82

To: CROWN RESOURCE CORPORATION
SEVENTEENTH STREET PLAZA
1225 17TH ST., STE. 1500
DENVER, COLORADO
80202

Page Number :3
Total Pages :3
Certificate Date: 29-JUN-92
Invoice No. :19216414
P.O. Number :5080
Account :JXX

Project : CAN RECON
Comments: ATTN: C. HERALD CC: R. MILLER CC: J. SHANNON CC: M. SAWIUK

CERTIFICATE OF ANALYSIS A9216414

SAMPLE	PREP CODE	Au ppb FA+AA	Au FA oz/T								
L650E 0850N	201 ---	< 5	-----								
L650E 0900N	201 ---	< 5	-----								
L650E 0950N	201 ---	30	-----								
L650E 1000N	201 ---	< 5	-----								
L650E 1050N	201 ---	< 5	-----								

CERTIFICATION: *John Vonk*

ROCK SAMPLE SHEET

Sampler _____

 Date 1992

 Property Louise 87

NTS _____

SAMPLE NO.	Sample Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS				
		Rock Type	Alteration	Mineralization		PPb Au	PPm Ag	PPm As	PPm Cu	% Fe
92CCK 100R	G	Amillino diorite	u/chy Propylitic	Tr. py	L550E 300N rd. cut	40	10.2	98	98	3.83
92CCK 101R	G	chert	Silic	Mar. py Tr. pa.	L550E 325N rd. cut	200	1.9	216	397	5.53
92CCK 102R	G	chert	fract. Silic	Po. Py, chalc. Massive Sulf.	L550E 450N cut cut	225	1.2	53	2100	7.60
92CCK 103R	G	Chite? Chert?	Argill. blechid	Fe ox Tr Sulfide.	L550E 600N o.c.	20	0.9	316	95	1.76
92CCK 104R	G	Volcanic	Silic	Tr Sulfide Stringers	L550E 650N o.c.	40	10.2	20	106	3.44
92CCK 105R	G	Argillite	Silic	Tr Sulfide	L550E 700N o.c.	25	0.9	1A	23	3.39
92CCK 106R	G	Argillite	Silic	Tr Sulfide	L550E 750N o.c.	50	10.2	12	139	3.39
92CCK 107R	G	Silic. Volcanic	Silic	—	L550E 775N o.c.	35	0.2	2A	123	5.14
92CCK 108R	G	Volcanic	Silic Argillite	Fe ox Tr Sulfide.	L550E 950N o.c.	20	0.2	20	120	3.23
92CCK 109R	G	Volcanic	Silic Argillite	Fe ox Tr Sulfide	L550E 1025N o.c.	15	10.2	2A	86	3.83
92CCK 110R	G	Argill.	fract Silic	Fe ox.	L550E 1500N o.c.	10	0.2	2A	84	4.21
92CCK 111R	G	Volcanic bx	Argillite	Fe ox.	L450E 950N o.c.	10	0.9	20	50	3.09
92CCK 112R	G	Volcanic bx	foliated	Tr. Py.	L450E 850N o.c.	10	0.2	A	71	2.08
92CCK 113R	G	Volcanic	Silic	Tr ⁺ py	L450E 800N o.c.	15	10.2	1A	120	3.11
92CCK 114R	G	chert	Silic	Tr ^s py	L450E 825N o.c.	65	10.2	16	115	2.32

C-CHIP G-GRAB F-FLOAT

ROCK SAMPLE SHEET

Sampler _____

 Date 1992

 Property Louise ET

NTS _____

SAMPLE NO.	Sample Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS						
		Rock Type	Alteration	Mineralization		Ppb	ppm	ppm	ppm	%		
						As	Ag	As	Cu	Fe		
92CCK 11512	G	Argillite	Fract silice	Mod. py.	L450E	A06N	o.c.	10	10.2	12	94	6.04
92CCK 11612	G	Chert	Silice	Mod. py. po	L450E	325N	o.c.	230	0.9	198	25	5.85
92CCK 11712	G	chert	Propylitic silice	Tr. SulFides	L450E	100N	o.c.	20	0.8	52	84	3.72
92CCK 11812	G	Propylitic	Argillite	Fe ox	L450E	075N	o.c.	10	10.2	258	15	5.75
92CCK 11912	G	Volcanic	Argillite	Tr. py	L650E	975N	o.c.	15	0.2	19	118	2.85
92CCK 12012	G	Volcanic	bleached	Tr. dis. SulFides	L650E	900N	o.c.	10	10.2	10	66	3.56
92CCK 12112	G	Volcanic	Fract.	Fe ox	L650E	700N	o.c.	25	10.2	6	68	3.14
92CCK 12212	G	gizite? Chert?	Argillite	Fe ox Tr. py	L650E	635N	o.c.	40	10.2	10	62	1.21
92CCK 12312	G	chert	Argillite	Fe ox - abund SulFides Py, Py chert	L550E	450N	o.c.	100	1.2	246	221	10.35
92CCK 12412	G	chert	Silice	Tr ⁺ SulFides	L525E	450N	o.c.	135	0.2	208	88	3.5
92CCK 12512	G	chert	Silice	Tr ⁺ SulFides	L540E	450N	pit.	75	0.2	166	12A	3.82
92CCK 12612	G	chert	Silice	Tr ⁺ SulFides	L550E	480N	trench	200	0.2	52	315	2.63
92CCK 12712	G	chert	Silice	Tr ⁺⁺ SulFides	L525E	480N	o.c.	310	0.8	156	85	5.12
92CCK 12812	G	chert	Silice	Tr SulFides	L510E	480N	o.c.	135	0.2	30	A3	1.70
92CCK 12912	G	chert	Silice	Tr ⁺⁺ SulFides	L510E	480N	o.c.	55	10.2	314	80	6.03

C-CHIP 6-GRAB F-FLOAT

ROCK SAMPLE SHEET

Sampler _____

 Date 1992

 Property Louise 87

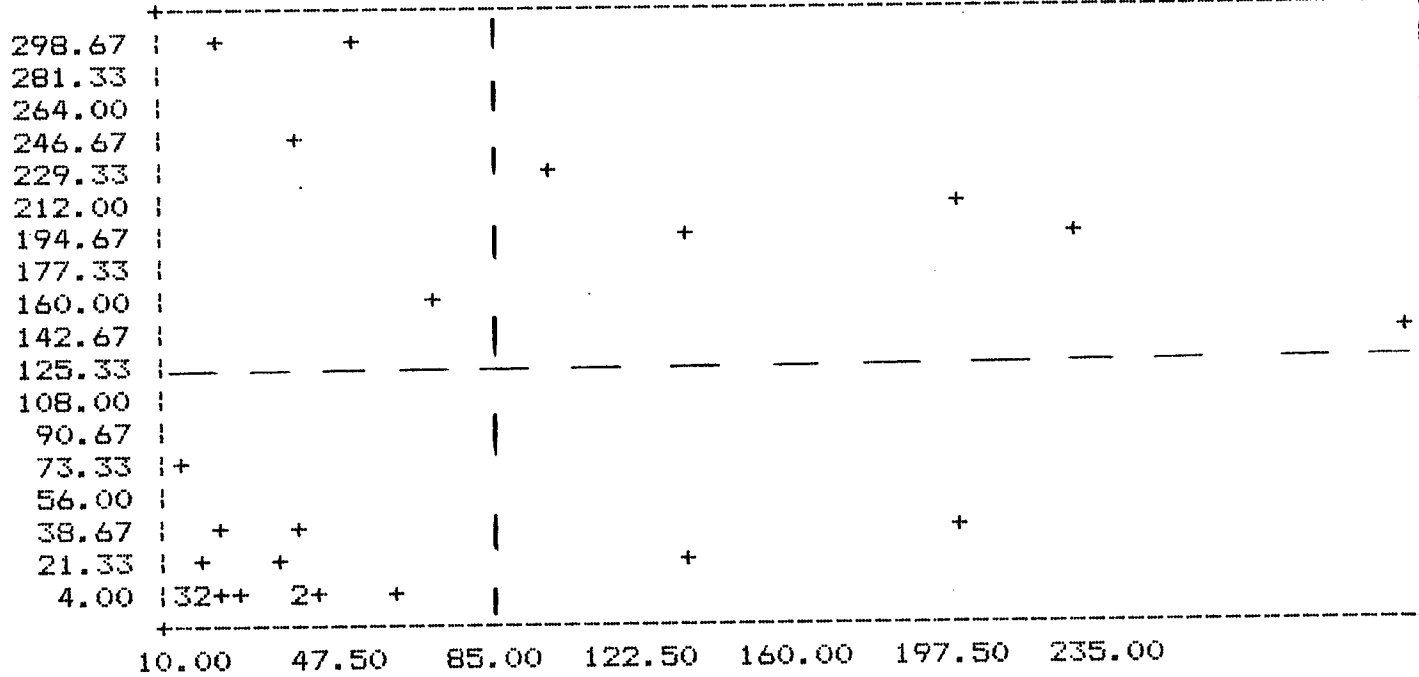
NTS _____


SAMPLE NO.	Sample Width	DESCRIPTION			ADDITIONAL OBSERVATIONS	ASSAYS				
		Rock Type	Alteration	Mineralization		ppb Au	ppm Ag	ppm As	ppm Cu	% Fe
92CCK 13012	G	chert clonite	Silic	Py, Aspy, Po?	Copper Cabin pit . 250E - 200N	5700	1.6	74 ^{ppm}	241	6.32
92CCK 13112	G	chert	Silic.	Py, Tr po?	Copper Cabin 300E 200N	65	0.2	1340	111	4.32
92CCK 13212	G	chert bx	Silic	Tr Sulfides	Copper Cabin 300E 200N	115	3.0	730	139	5.72
92CCK 13312	G	qtz in clonite	bleached	Feox	Copper Cabin 300E 150N	250	1.0	406	149	4.84
92CCK 13412	G	clonite gossan	oxidized shear	Feox, Py Aspy, chert	Shaft @ Copper Cabin 350E 200N	3800	8.2	530	1205	13.40
92CCK 13512	G	chert	oxidized shear	Feox, Py Aspy	Copper Cabin 350E 140N	3540	5.4	3300	224	3.31
92CCK 13612	G	chert	oxidized	Tr. py Aspy	Copper Cabin 400E 200N	1660	3.2	740 ^{ppm}	86	4.24

C-CHIP 6-GRAB F-FLOAT

Y : As

X : Au ppb





CROWN RESOURCE CORPORATION

COMPLETED	DATE	DRAFTED	DATE

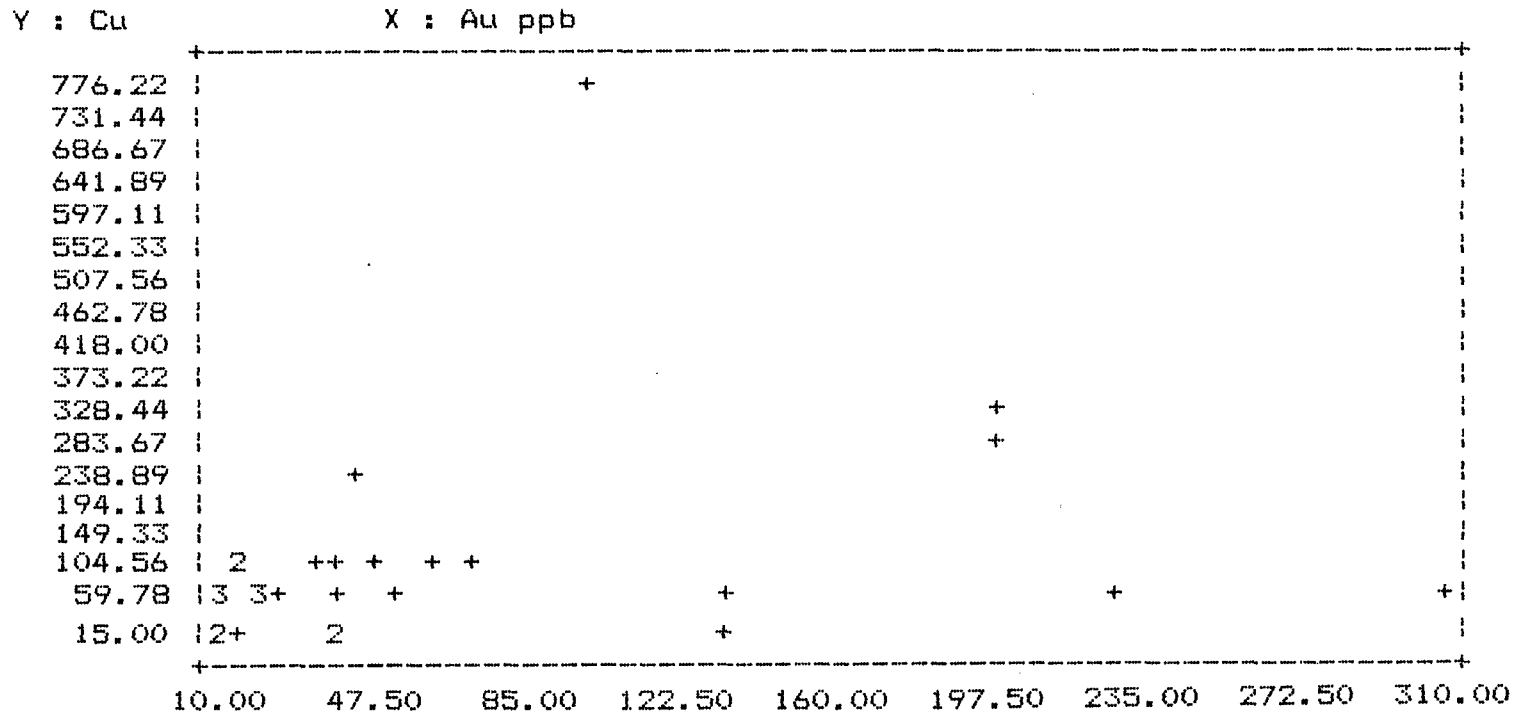
LOUISE - 87

X-Y Plot Au:As


30 Sample Rock Suite

PLM

DATE 6/92	SCALE	DWG NO.
-----------	-------	---------



File




CROWN RESOURCE CORPORATION

COMPLETED	DATE	DRAFTED	DATE
REVISION	DATE	REVISION	DATE
DATE 6/92 SCALE			DWG NO.

LOUISE - 87
 X-Y Plot Au:Cu
 30 Sample Rock Suite
RC

Select : au

VARIABLE : Au ppb FA+AA
COLUMN NUMBER : 3
DETECTION LIMIT : 5.0000
NUMBER OF OBSERVATIONS : 30
MINIMUM : 10.000
MAXIMUM : 475.000
MEAN : 81.667
STANDARD ERROR OF MEAN : 19.447
STANDARD DEVIATION : 106.515
COEFFICIENT OF VARIATION : 130.426
SKEWNESS : 2.083
KURTOSIS : 4.202
Option :

				CROWN RESOURCE CORPORATION			
COMPLETED	DATE	DRAFTED	DATE	LOUISE - 87 GOLD IN Rock 30 Sample Rock Suite <i>Ren</i>			
REVISED	DATE	REVISED	DATE				
				DATE 6/92	SCALE	DWG NO.	

Select : as

VARIABLE : As ppm
 COLUMN NUMBER : 7
 DETECTION LIMIT : 2.0000
 NUMBER OF OBSERVATIONS : 28
 MINIMUM : 4.000
 MAXIMUM : 316.000
 MEAN : 92.429
 STANDARD ERROR OF MEAN : 19.526
 STANDARD DEVIATION : 103.323
 COEFFICIENT OF VARIATION : 111.787
 SKEWNESS : 0.934
 KURTOSIS : -0.710
 Option :



CROWN RESOURCE CORPORATION

COMPILED	DATE	DRAFTED	DATE
REVISD	DATE	REVISD	DATE

LOUISE 87
 Arsenic In Rock
 30 Sample Suite


DATE 6/92 SCALE

DWG NO.

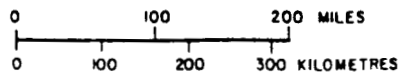
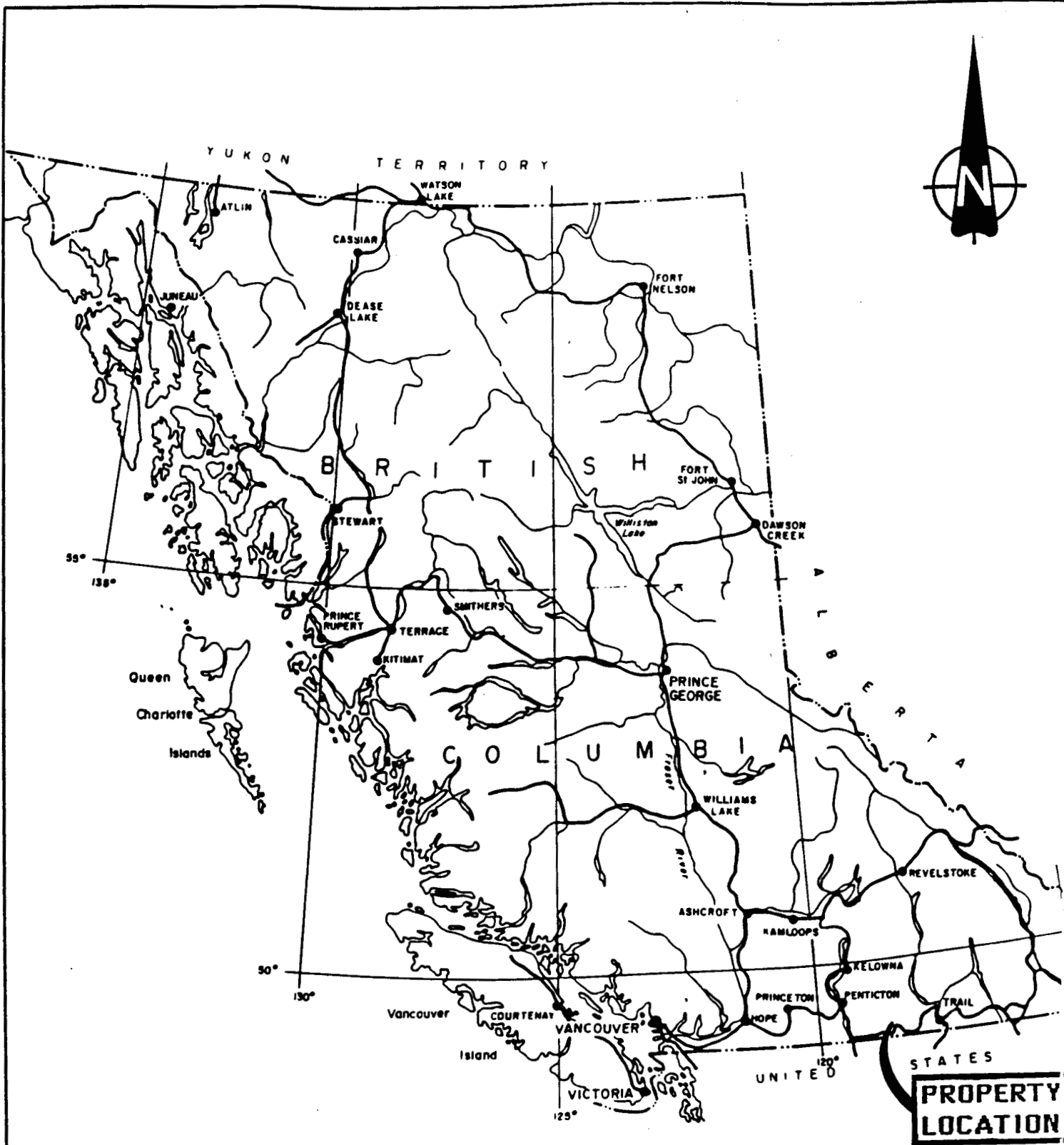
Select : au

VARIABLE : Au ppb FA+AA
 COLUMN NUMBER : 2
 DETECTION LIMIT : 5.0000
 NUMBER OF OBSERVATIONS : 23
 MINIMUM : 5.000
 MAXIMUM : 4560.000 *
 MEAN : 221.957
 STANDARD ERROR OF MEAN : 197.206
 STANDARD DEVIATION : 945.769
 COEFFICIENT OF VARIATION : 426.106
 SKEWNESS : 4.187
 KURTOSIS : 16.246
 Option :

* doesn't include the >10,000 ppb sample

 CROWN RESOURCE CORPORATION						
				COMPLETED DATE		DRAFTED DATE
REVISED DATE		REVISED DATE		LOUISE - 87 GOLD In Soil -80 Mesh. <i>REM</i>		
				DATE 6/92	SCALE	DWG NO.

APPENDIX B



CROWN RESOURCES CORP.			
LOUISE-87 CLAIM			
PROPERTY LOCATION MAP			
GREENWOOD MINING DIVISION			
COAST MOUNTAIN GEOLOGICAL LTD.			
DRAWN BY REM	NTS: 82E/3E	DATE 9/92	FIGURE: 1

EOCENE

Ek

KITLEY LAKE FORMATION: massive, yellowish to buff, trachyte to trachyandesite; plagioclase and biotite glomerophenocrysts to 3 cm (10% of the rock) in a finely crystalline groundmass; includes ash flow tuff and minor mudstones; includes undifferentiated intrusive equivalents. Church determined K-Ar ages between 52.9 (biotite) and 44.2 Ma (whole-rocks)

Eyl

YELLOW LAKE FORMATION: massive to thick, tabular flows of buff to light tan pyroxene-rich, mafic phonite locally with rhomb anorthoclase phenocrysts and primary analcime, abundant zeolite fill cracks and amygdules; includes undifferentiated intrusive equivalents

Esb

SPRINGBROOK FORMATION: poorly sorted, massive to thick bedded, immature, coarse boulder and pebble conglomerate. Clasts to 50 cm are rounded, but of low sphericity and are locally derived (chert, greenstone, granite, and other pre-Eocene rocks with fewer Merron Group clasts, mainly Yellow Lake and Kitley formations). Near Rock Creek this unit consists of white to light grey, medium bedded, feldspathic sandstone, siltstone and shale with coaly partings, named the Little River Formation

CRETACEOUS AND/OR JURASSIC

JKg

OKANAGAN BATHOLITH: massive, light grey weathering, medium- to coarse-grained, equigranular to porphyritic, unfoliated to weakly foliated, fresh biotite granodiorite and granite; includes undifferentiated granodiorite of the Nelson suite; age poorly constrained

mJg

MIDDLE JURASSIC NELSON PLUTONIC ROCKS: massive, generally moderately foliated, medium grey weathering, medium- to coarse-grained, equigranular, hornblende-biotite granodiorite, quartz diorite and granite; includes undifferentiated biotite granite of the Veltolla suite; age poorly constrained

ARBONIFEROUS OR PERMIAN

CPk

KNOB HILL GROUP: massive "chert" (largely sliced greenstone), greenstone and amphibolite; minor limestone or marble; minor "sharpstone"; age unknown

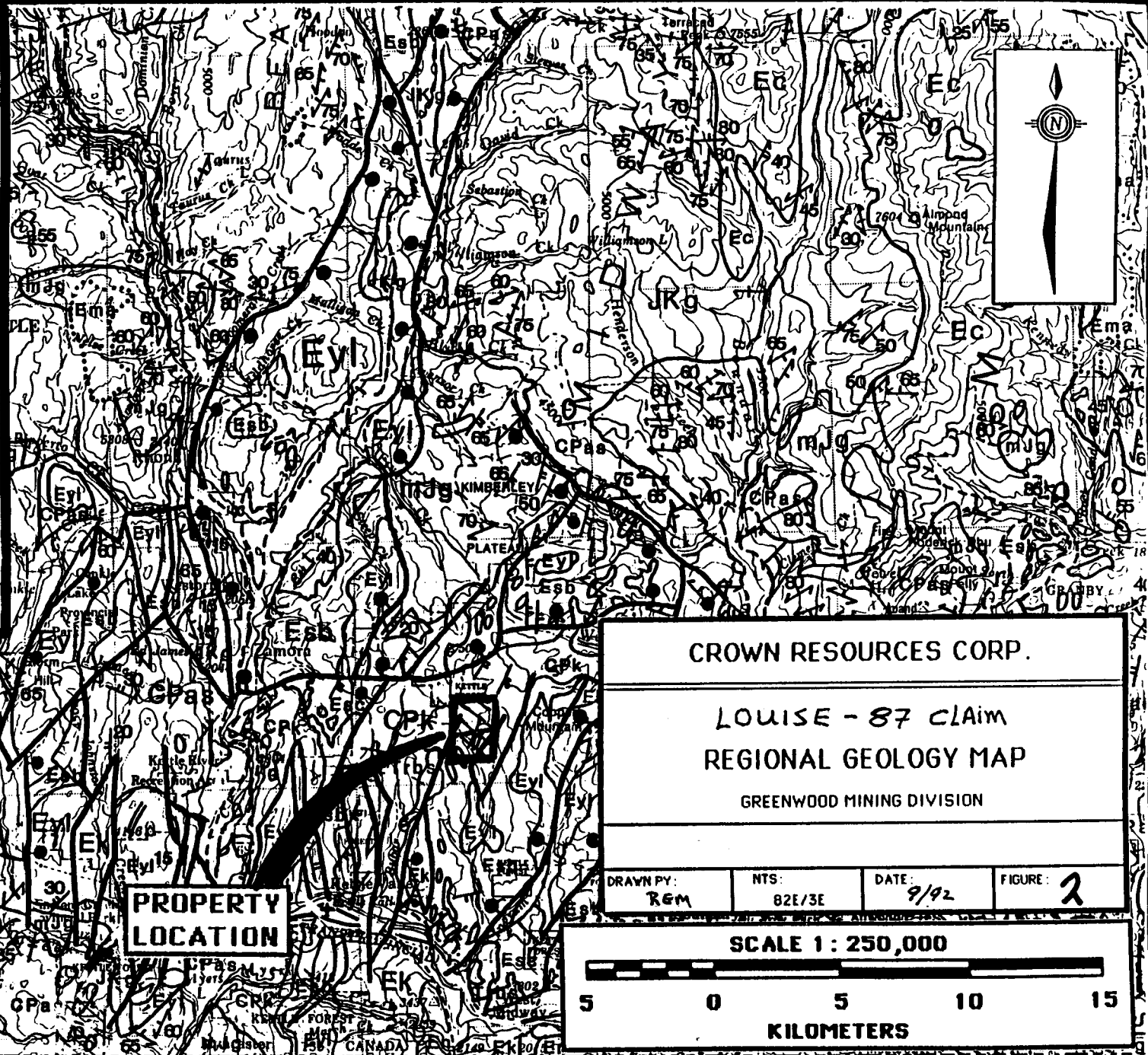
CARBONIFEROUS OR OLDER

CPa

ANARCHIST GROUP: dark grey weathering, recessive, amphibolite, greenstone, quartz-chlorite schist, quartz-biotite schist, minor serpenitized pendobite; "chert" breccia that resembles Trbc is locally included; CPaP-pendobite and serpenitized equivalents; CPa-amphibolite; age unknown

CPko

KOBAU GROUP: undivided amphibolite, greenschist, quartzite, mica schist, greenstone-minor marble; strongly foliated with penetrative flaser fabrics; age unknown

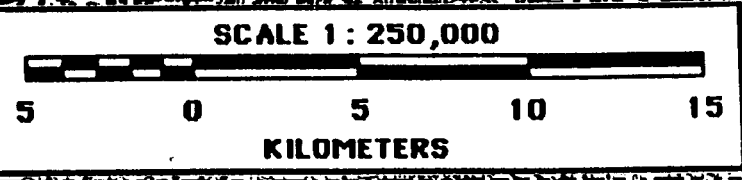


CROWN RESOURCES CORP.

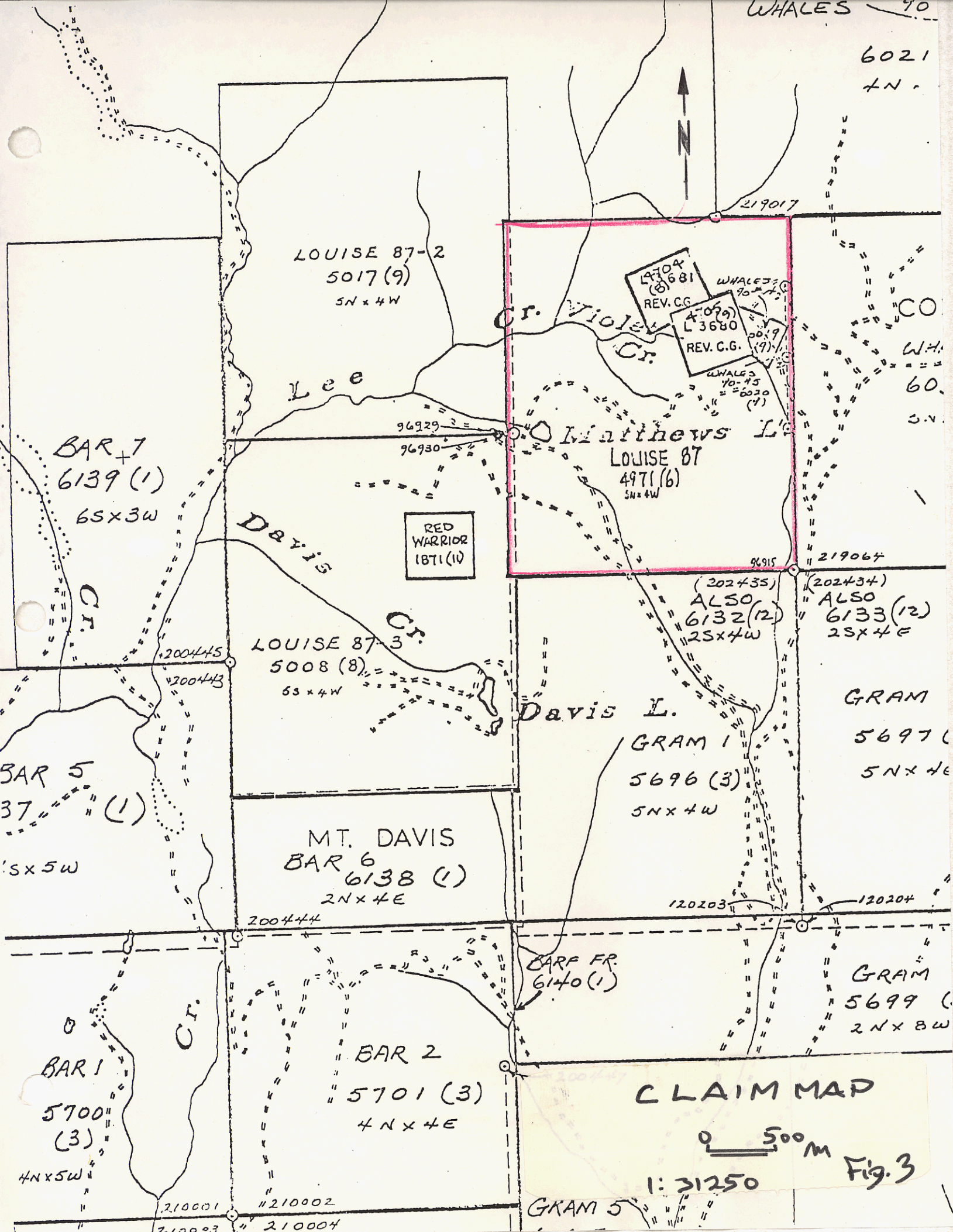
LOUISE - 87 CLAIM
REGIONAL GEOLOGY MAP

GREENWOOD MINING DIVISION

DRAWN BY: REM	NTS: 82E/3E	DATE: 9/92	FIGURE: 2
------------------	----------------	---------------	--------------



**PROPERTY
LOCATION**



WHALES 90

6021
+N.

219017

LOUISE 87-2
5017 (9)
5N x 4W

L 3681
(8)
REV. C.G.

L 3680
(9)
REV. C.G.

WHALES
70-75
20019
20030
(7)

Cr. Violet
Cr.

Lee

BAR 7
6139 (1)
6S x 3W

96929
96930

Matthews L.
LOUISE 87
4971 (6)
5N x 4W

RED
WARRIOR
1871 (10)

DAVIS
CR.

LOUISE 87-3
5008 (8)
5S x 4W

(202435)
ALSO
6132 (12)
2S x 4W

(202434)
ALSO
6133 (12)
2S x 4E

Davis L.

GRAM 1
5696 (3)
5N x 4W

GRAM
5697
5N x 4E

MT. DAVIS
BAR 6
6138 (1)
2N x 4E

120203

120204

BAR FR.
6140 (1)

GRAM
5699
2N x 8W

BAR 1
5700
(3)
4N x 5W

BAR 2
5701 (3)
4N x 4E

CLAIM MAP

0 500m

1:31250

Fig. 3

GRAM 5

210001

210002

210003

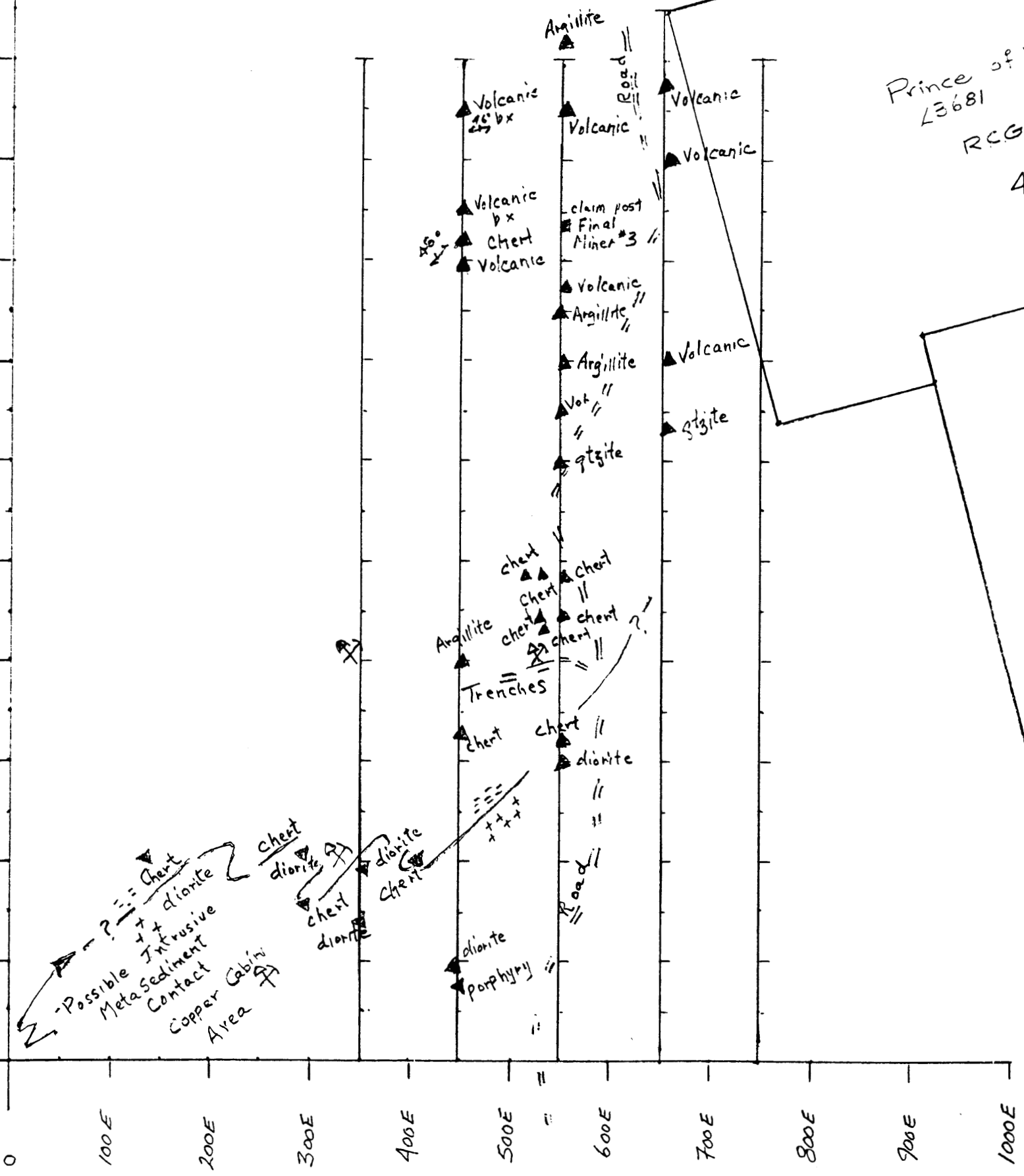
210004

Meters

1000N
900N
800N
700N
600N
500N
400N
300N
200N
100N
0

0 100E 200E 300E 400E 500E 600E 700E 800E 900E 1000E

Meters



Prince of Wales
L3681
R.C.G.
4705

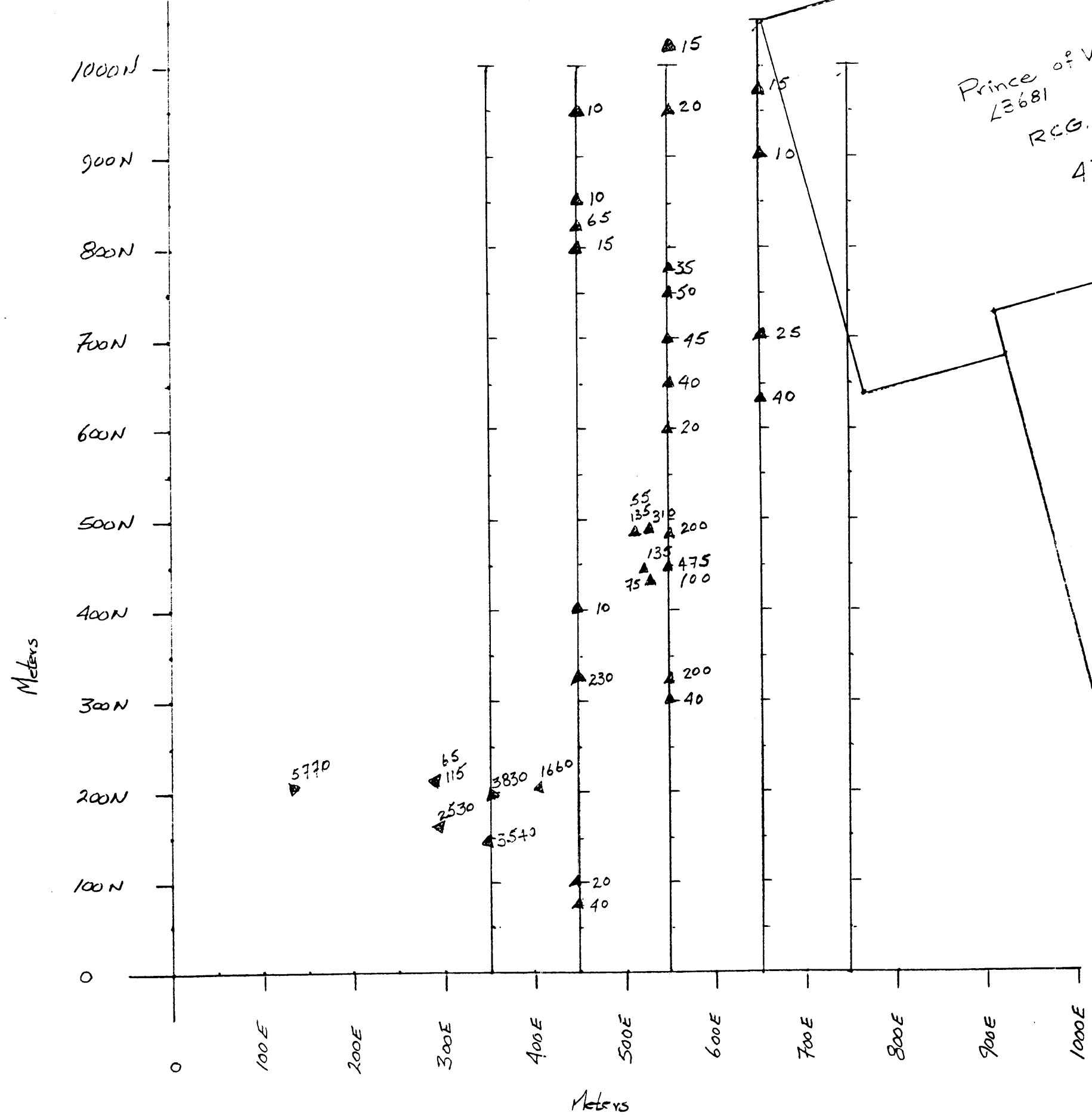
Princess Louise
L3680
R.C.G.
4704



CROWN RESOURCE CORPORATION


COMPLETED	DATE	DRAFTED	DATE
REVISED	DATE	REVISED	DATE

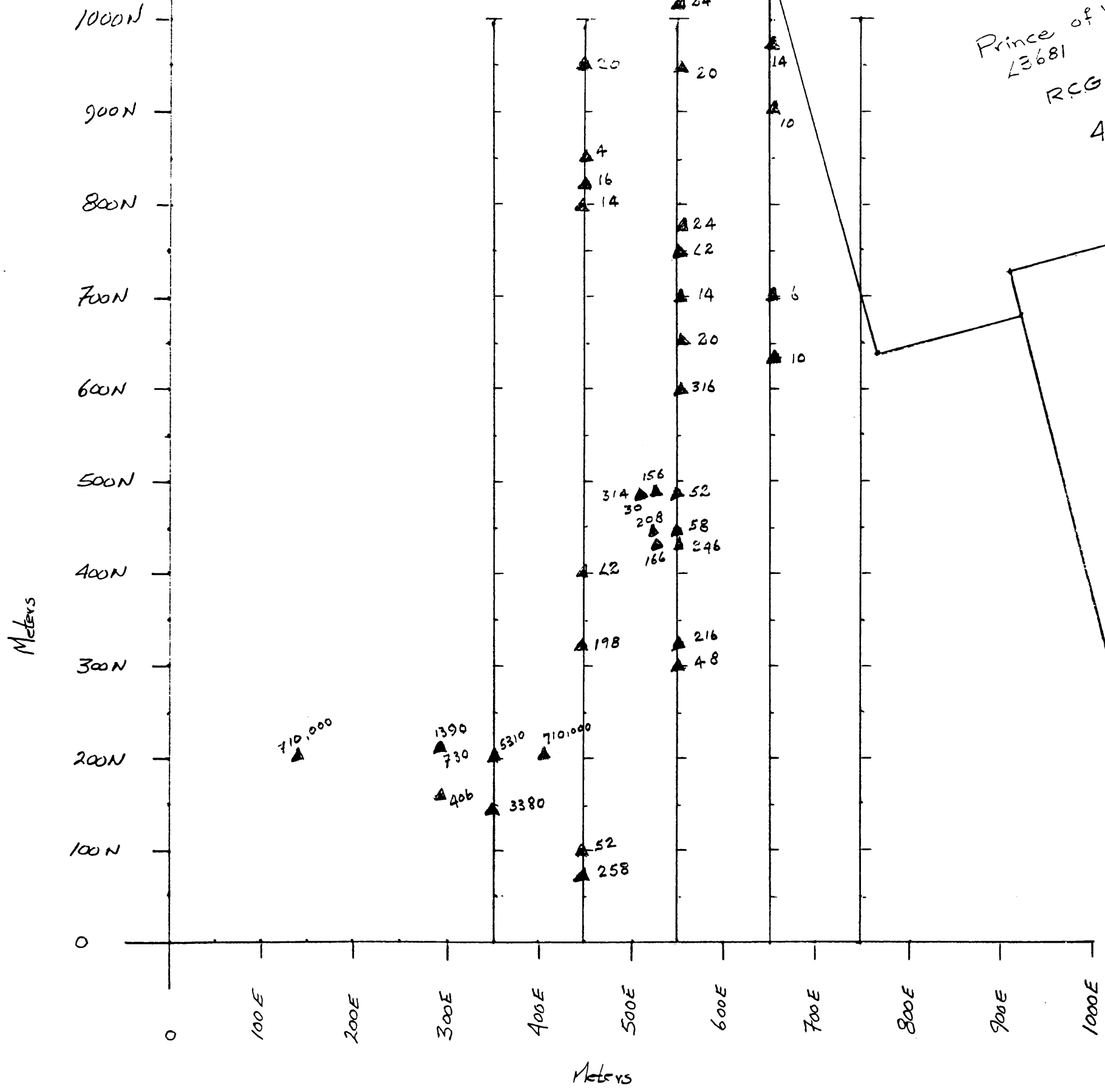
General Geology 1992
LOUISE-87
 Rock Samples \blacktriangle Perm
 DATE 6-92 SCALE 1:5000 DWG NO. **4**



Prince of Wales
L3681
R.C.G.
4705

Princess Louise
L3680
R.C.G.
4704

				CROWN RESOURCE CORPORATION			
COMPLETED	DATE	DRAFTED	DATE	Rock chip Geochem ▲ LOUISE-87 Au ppb <i>perm</i> DATE 6-92 SCALE 1:5000 DWG NO. 5			
REVISED	DATE	REVISED	DATE				

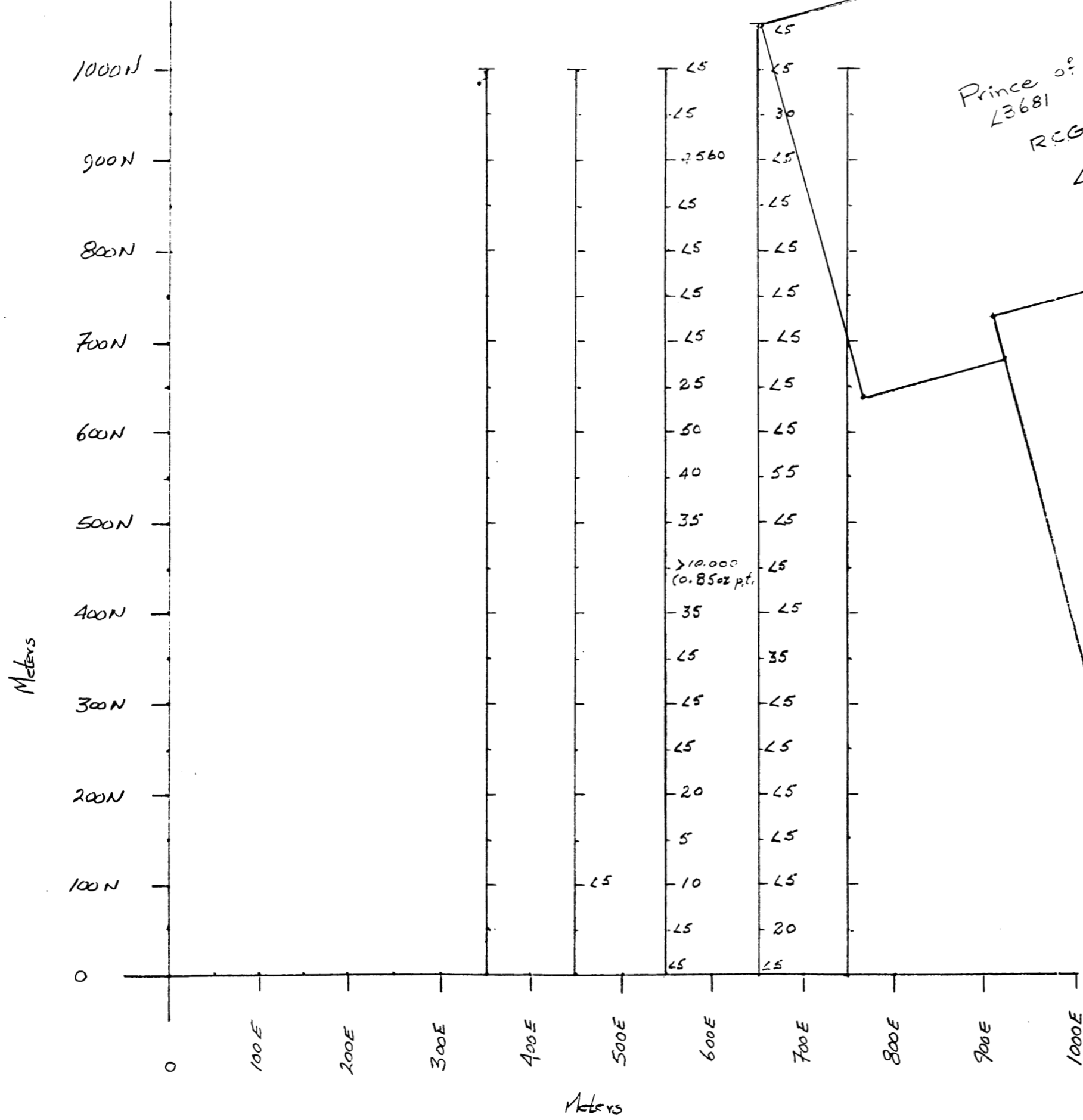


Prince of Wales
L3681
R.C.G.
4705

Princess Louise
L3680
R.C.G.
4704



		CROWN RESOURCE CORPORATION	
COMPLETED	DATE	DRAFTED	DATE
REVISION	DATE	REVISION	DATE
Rock Chip Geochem: ▲			
LOUISE-87			
As P.P.M.			
DATE 6-92 SCALE 1:5000			DWG NO. 6



Prince of Wales
L3681
R.C.G.
4705

Princess Louise
L3680
R.C.G.
4704



		CROWN RESOURCE CORPORATION	
COMPLETED	DATE	DRAFTED	DATE
REVISED	DATE	REVISED	DATE
Soil Geochem Test		DATE 6-92 SCALE 1:500 DWG NO.	
LOUISE-87		PERM	
All in p.p.b.		7	

Meters

1000N
900N
800N
700N
600N
500N
400N
300N
200N
100N
0

0 100E 200E 300E 400E 500E 600E 700E 800E 900E 1000E

Meters


56989
56903
56934
56958
56949
56936
56927
56921
56915
56906
56916
56920
56909
56899
56888
56881
56870
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57105
56984
56884

56905
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56843
56862
56933

Prince of Wales
L3681
R.C.G.
4705

Princess Louise
L3680
R.C.G.
4704

 **CROWN RESOURCE CORPORATION**

COMPLETED	DATE	DRAFTED	DATE

Ground Magnetometry
LOUISE-87
- gammas - *REM*
DATE 6-92 SCALE 1:5000 DWG NO. **8**

APPENDIX C

MINERAL PROPERTY - APPENDIX C - GEOLOGIC ASSESSMENT

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During 1991 as a part of Crown's on-going reconnaissance gold exploration program, eighteen (18) rock chip samples were collected from the general area of the Louise 87 claim. Eleven (11) of the eighteen (18) rock chip samples were gold enriched (see attached Whales 90 tabulation sheet Appendix a) and the better gold values were associated with arsenopyrite, quartz veining and/or siliceous flooding along a chert? diorite contact.

When the Louise 87 claim became available for follow-up work in 1992 an investigative program was initiated to aid in selecting a gold exploration technique.

The property consists of a 20 unit claim and two reverted crown grants that lie within the 20 unit claim boundaries.

Claim -----	Units -----	Record No. -----	Expiry Date -----
Louise 87	20	4538	June 24, 1992

	Lot No. -----	
Princess Louise	3680	4704
Prince of Wales	3681	4704

Located at 49° 07'N, 118° 52'W the property lies approximately 14 km west of the Greenwood Townsite and some 5 km west of Copper Mountain. Access is via gravel farm and logging roads north from Highway 3 along the Ingram Creek drainage towards the Copper Mountain Lookout Road.

Physiography consists of rolling wooded hills and large flat open areas with swamps and small lakes. Relief is moderate and probably doesn't exceed 150 meters.

Annual precipitation is approximately 45 cm with dry summers and moderate winter snow falls. Temperatures range from +37 c to -15 c with the area generally snow free from May through October.

Turn of the century active major mining camps in the Greenwood area of the Boundary District included; Phoenix, Motherlode, and Deadwood. Some 27 million tons of ore was produced from Phoenix camp alone, yielding 250,000 tons of copper, 92 million grams of silver and 30 million grams of gold.

Five km east of the property on Copper Mountain , the Copper Queen camp shipped 3000 tons of high grade copper ore.

Early work on the Prince of Wales claim, as reported in the 1907 Minister of Mines report indicates that development at the time consisted of a vertical 30 foot shaft and numerous open cuts. Work on the Princess Louise also consisted of shallow

shafts and pits.

1990 recon sampling by Crownex showed high gold values >9,999 ppb associated with a thin quartz vein at the Coronation prospect some 1000 meters west of the Copper Cabin. In addition anomalous gold was obtained from rock chip samples around the diorite/chert contact in the Copper Cabin prospects.

In the general area, west of Greenwood, carboniferous or permian Knob Hill group rocks consisting of chert, greenstone, amphibolite, limestone, argillites, quartzite and conglomerates are overlain by middle to lower Triassic sharpstone conglomerate, chert, sandstone, black argillite, greenstone, quartzite and limestone (marble and skarn) of the Brooklyn formation. Nelson intrusive rocks, mainly granodiorite have intruded the Knob Hill and Brooklyn rocks.

Tertiary flows, intrusives and minor sediments cover the older rocks.

North to north east, normal faulting is predominate and generally offset east west faulting as evidenced by the trace of the Wallace Creek fault just to the north of the claims.

At property scale the northern two thirds of the claim is underlain by Knob Hill rocks which in turn are cut by Nelson Intrusive and minor Tertiary Coryell intrusions. In the southern third of the claim group, feldspathic,

tuffaceous sandstone, conglomerate and minor flows lie on top of the Knob Hill group and are cut by Marron Formation intrusive rocks.

Potential for the development of a bulk tonnage gold target was envisioned to occur on the claim group along a diorite/metasediment contact that appears to be silicified, pyritized and argillic as well propylitic altered within the intrusive away from the silicified contact. Massive and disseminated sulfide lenses occur within the argillites, greenstone and cherts that make up the host rocks in the contact aureole. Quartz veins occur as fissure fillings mainly in the greenstone and in a minor way in the chert.

Review of the claim owners existing data suggests in the previous work done, data collection had not focused on an applicable gold exploration technique that would lead to drillable targets..

Crowns approach in the development of a gold exploration program was to conduct an orientation survey over part of the projected geologic contact. The program included:

1. re-establishment of the 1987 grid.
2. soil sampling and assays for gold in the -80 fraction.
3. ground magnetometry along grid lines that cross known favorable geology.

4. rock chip sampling and geochemical assays for gold and trace elements.

Two suites of rocks were collected. (Table 1) Some thirty rock chip samples were collected along or near the grid lines and seven rocks chip samples were collected in and around a massive sulfide showing.

Forty-five soil samples were collected on fifty meter centers essentially along two north-south lines, 100 meters apart to see if gold in soil geochemistry would reflect known favorable gold host geology.

Chemex ICP32 plus geochem Fire assay - AA finish gold was the analytical, rock chip, investigative package. While geochem gold only was the analytical technique for the -80 mesh soil samples. In addition the soils were subjected to fire assay when one soil exceeded the upper geochemical limit of 10,000 ppb. This suspected nugget effect returned a fire assay of 0.85 opt.

Three lines of ground magnetometry were completed on fifty meter centers and at a line spacing of two hundred meters. It was thought that the small amount of pyrrhotite observed in the contact aureole as well as the massive sulfide lenses would be observable by grid magnetometry.

Twenty three of the forty five soils collected and

analyzed showed detectable gold values, excluding the high grade sample that ran 0.85 opt. The mean value was approximately 222 ppb with a standard deviation of approximately 946 ppb.

These two soil lines suggest that contamination from existing working and/or a strong nugget effect possibly related to gold in quartz veins, may be a concern in evaluating any geochem gold in soil data. Some positive aspects are seen in the soil data of line 550E where detectable gold values in the 20 to 50 ppb range are clustered one station south and four stations north of the high grade sample at 450 north.

An initial suite of 30 rock chip samples were collected along and near grid lines where outcrops permitted. In addition, seven additional rock chip samples were collected in and around the massive sulfide showings. Geochemical gold values for all rock chips were above the detection limit with the initial thirty samples sent having a mean gold value of approximately 82 ppb and a standard deviation of approximately 107ppb.

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In addition, based on the ICP geochem assay, arsenic had a mean of approximately 92ppb and a standard deviation of approximately 103ppb. These values were based on assay results from the twenty-eight of thirty rock samples that showed detectable arsenic.

Although the arsenic/gold plot doesn't indicate a strong correlation between gold and arsenic, it does indicate that arsenic is related to the mineralizing event and when the quadrant of the plot that displays sample values of arsenic and gold above their mean values is reviewed a high arsenic - high gold correlation is observed.

Copper is present as chalcopyrite in the sulfide system and represents an additional evaluation tool.

In summary, grid soil sampling is a valuable evaluation technique and would be maximized if arsenic and copper were analyzed along with gold on the -80 fraction.

Magnetometry was marginally successful in delineating the mineralized contact but is not the recommended primary geophysical technique. The disseminated nature of the sulfides along the majority of the contact suggests that I.P. would be a better a investigative and supportive technique.

VLF-EM with a resistivity pot might be a less expensive quick geophysical tool that could, with a ground magnetometer package, provide a fairly good geophysical, albeit shallow, look at: disseminated sulfides, conductors, and magnetic minerals in the contact area. Although the extensive silicification associated with the sulfide zone could present an interpretive problem.

This orientation survey has shown that commercial gold grades can be obtained from surface soils and rocks on this claim and that drill targets can be developed by grid soil sampling supported by IP and /or VLF-EM resistivity magnetometer techniques.