

LOG NO: 01-09	RD.
ACTION:	
FILE NO:	

<b>ASSESSMENT REPORT</b>	LOG NO: 0627	RD.
<b>(GEOCHEMICAL)</b>	ACTION: Back from Amendment	
<b>ON THE L.D.M. 6 MINERAL CLAIMS</b>	FILE NO:	
<b>MORGAN PROPERTIES</b>		

Fort Steele Mining Division

NTS: 82F/8E, 9E

Latitude: 49 30' N  
Longitude: 116 4' W

on behalf of:

**Chapleau Resources Ltd.**  
607 - 325 Howe Street  
Vancouver, B.C.  
V6C 1Z7

by

**R. D. C. Kennedy**

December 19, 1990

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**20,767**

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## INTRODUCTION

This report is submitted on behalf of Chapeleau Resources Ltd., of 607-325 Howe Street, Vancouver B.C.

The L.D.M. 6 claim consists of a total of eight units and is part of the Morgan group of Claims which along with the Bar, Buck 1 and Buck 2 claim groups, form the companies Purcell Camp. The Purcell Camp consists of a total of 49 mineral claims ( 414 units).

Chapeleau Resources has an option agreement to purchase a 90% interest in the Morgan Group of claims.

The work outlined in this report is part of Chapeleau Resources ongoing exploration program on their Purcell Camp properties.

The L.D.M. #6 claims are situated approximately 23 kilometres south west of Cranbrook, B.C., near the headwaters of Perry Creek. The claims are located on the eastern aspect between the tributaries of Limerick Creek and Wuhun Creeks. Access to the property is gained through the use of moderate to poor condition logging roads.

CHAPLEAU RESOURCES LTD.  
MORGAN CLAIMS  
LOCATION MAP

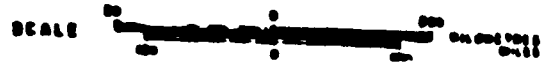
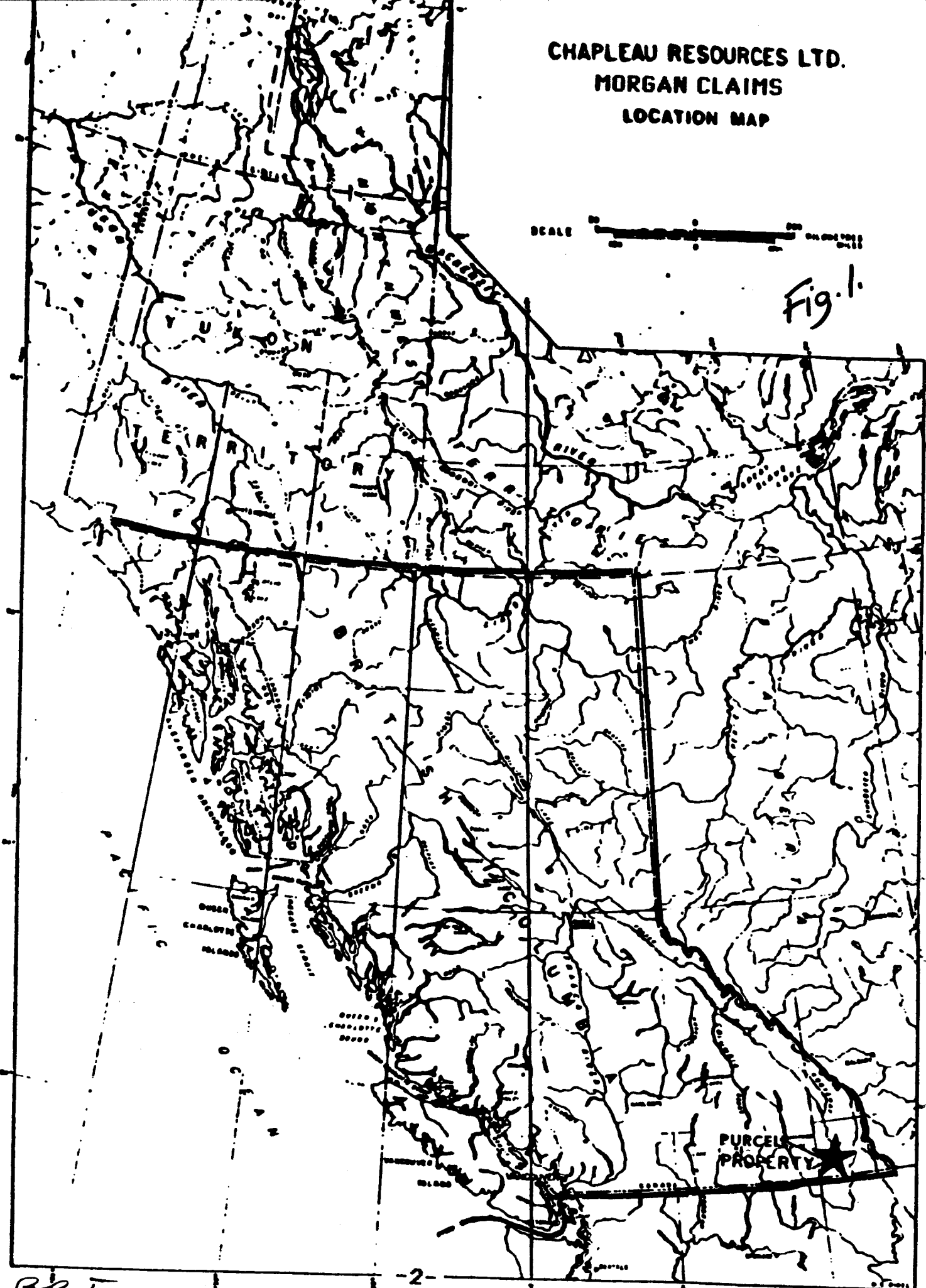
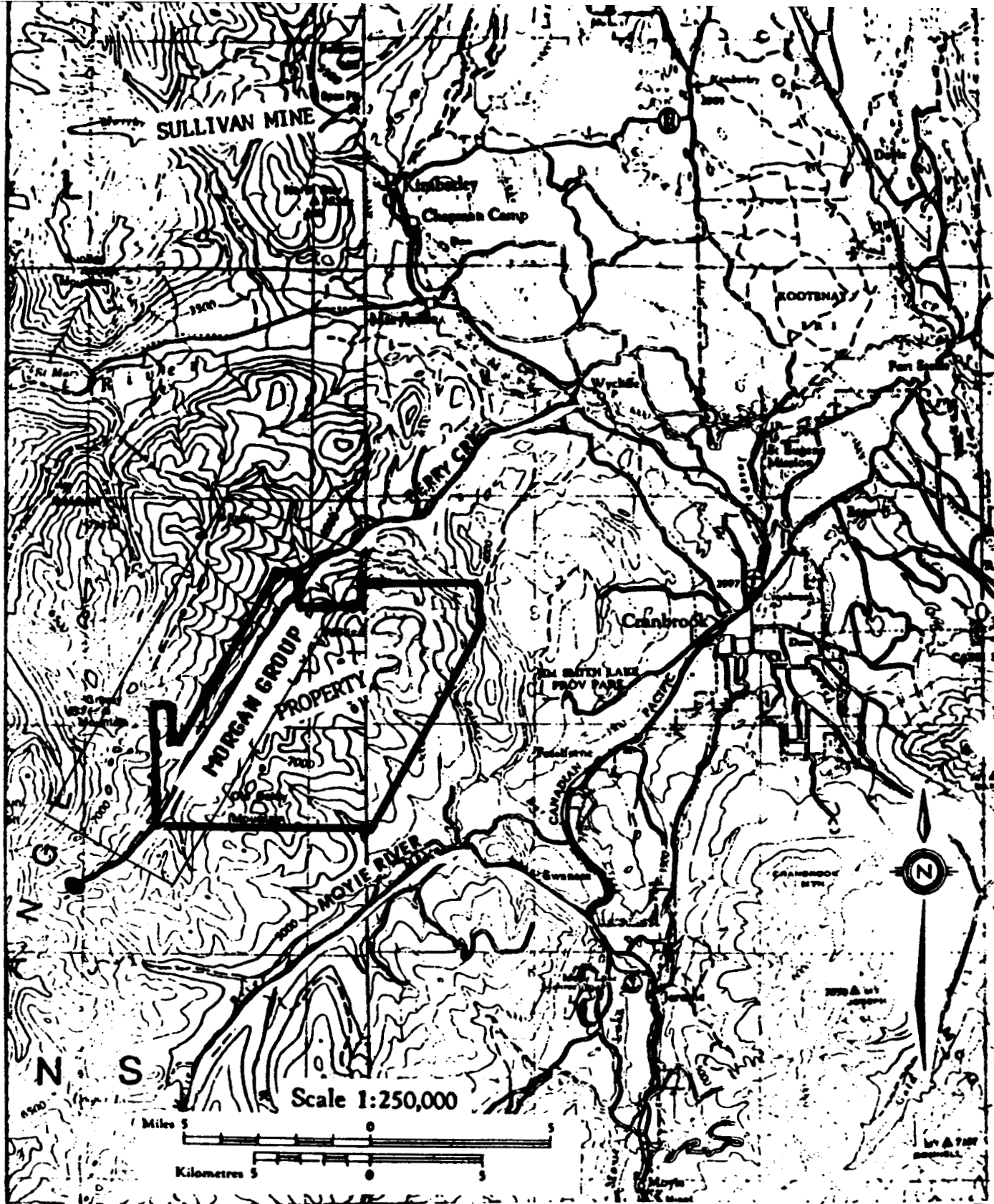


Fig. 1.



R. Bentley



CHAPLEAU RESOURCES LTD.

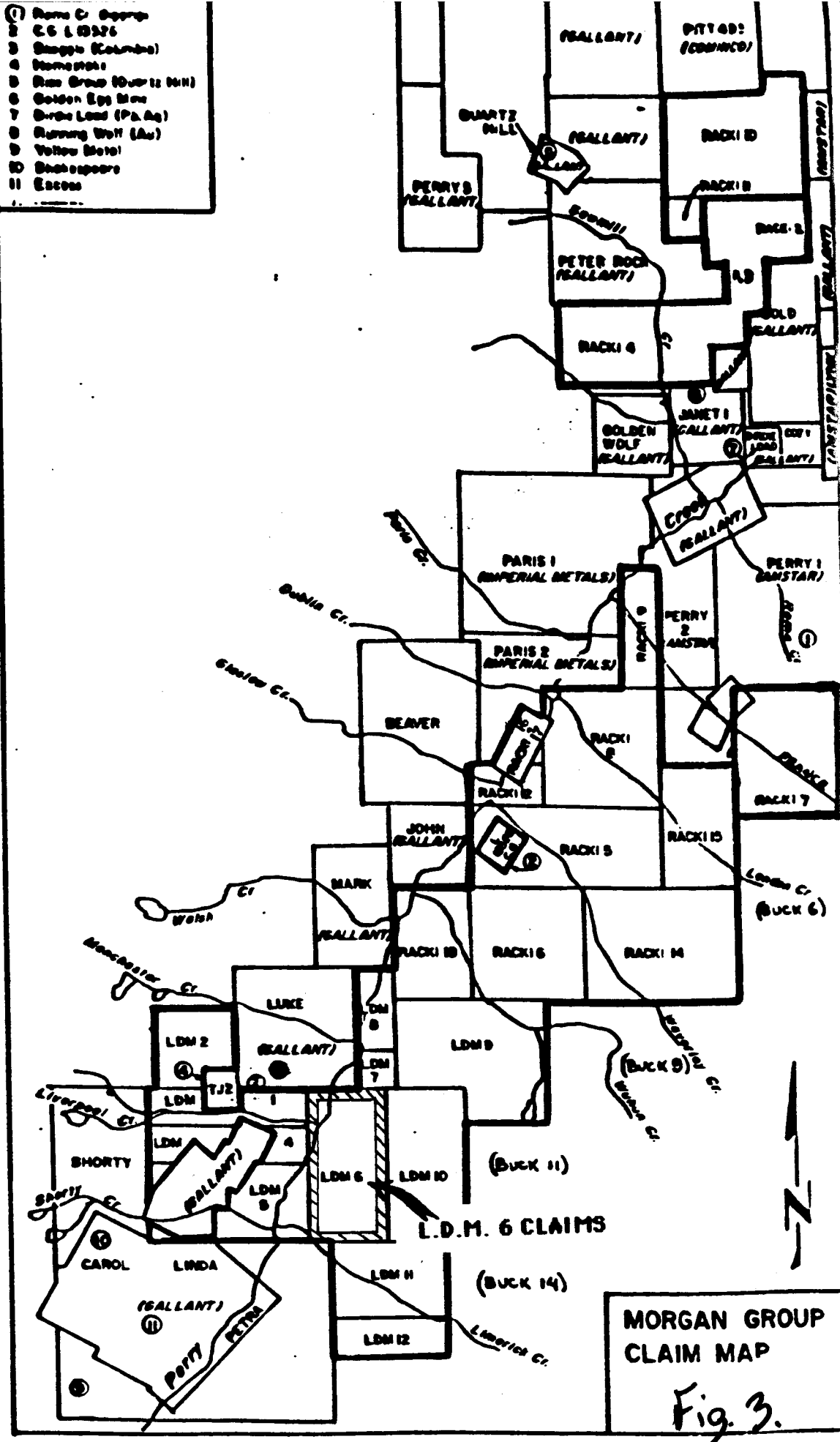
ACCESS MAP

PURCELL PROPERTY  
(MORGAN GROUP)

*Fig. 2.*

Fort Steele Mining Division - British Columbia

- 1) Stone Ct. Group
- 2) C.G. L 0326
- 3) Ganga (Columbo)
- 4) Stonegate
- 5) Red Group (Quartz Hill)
- 6) Golden Egg Mine
- 7) Drive Lead (Pa. Ag)
- 8) Running Wolf (Au)
- 9) Yellow Metal
- 10) Shakespeare
- 11) Escrow



<b>PROPERTY</b>	<b>CLAIMS</b>	<b>RECORD *</b>	<b>RECORD DATE</b>	<b>EXPIRY DATE</b>	<b>UNITS</b>
MORGAN	Racki 7	3017	Nov 9, 1987	Nov 9, 1991	20
MORGAN	Racki 5	2326	Nov 26, 1984	Nov 26, 1991	10
MORGAN	Racki 10	2557	Jan 14, 1986	Jan 14, 1991	12
MORGAN	Racki 11	2558	Jan 14, 1986	Jan 14, 1991	1
MORGAN	LDM 9	2590	Mar 14, 1986	Mar 14, 1991	12
MORGAN	LDM 10	2591	Mar 14, 1986	Mar 14, 1991	8
MORGAN	LDM 11	2592	Mar 14, 1986	Mar 14, 1991	6
MORGAN	Racki 12	2593	Mar 14, 1986	Mar 14, 1991	2
MORGAN	LDM 8	2874	Apr 21, 1986	Apr 21, 1991	2
MORGAN	LDM 12	2609	Apr 21, 1986	Apr 21, 1991	3
MORGAN	Racki 18	2873	Apr 21, 1987	Apr 21, 1991	8
MORGAN	Racki 6	2380	Apr 22, 1985	Apr 22, 1991	9
MORGAN	Racki 14	2610	Apr 25, 1986	Apr 25, 1991	12
MORGAN	Racki 15	2611	Apr 25, 1986	Apr 25, 1991	6
MORGAN	LDM 4	1769	Apr 26, 1983	Apr 26, 1991	4
MORGAN	LDM 7	2624	May 28, 1986	May 28, 1991	4
MORGAN	Racki 16	2648	Jul 2, 1986	Jul 2, 1991	1
MORGAN	Racki 17	2649	Jul 2, 1986	Jul 2, 1991	1
MORGAN	LDM 2	962	Jul 4, 1980	Jul 4, 1991	4
MORGAN	Racki 8	2450	Aug 30, 1985	Aug 30, 1991	9
MORGAN	Racki 9	2451	Aug 30, 1985	Aug 30, 1991	3
MORGAN	LDM 1	751	Sep 5, 1979	Sep 5, 1991	4
MORGAN	LDM 5	1940	Sep 20, 1983	Sep 20, 1991	8
MORGAN	LDM 6	1954	Sep 30, 1983	Sep 30, 1991	8
MORGAN	Racki 4	2307	Oct 22, 1984	Oct 22, 1991	10
MORGAN	Racki 2	3015	Oct 5, 1987	Oct 5, 1992	3
MORGAN	Racki 3	3016	Oct 5, 1987	Oct 5, 1992	2

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### **COST STATEMENT**

- Wages ( 4 mandays @ \$225.00 per day )	\$ 900.00
- Vehicle ( 4 days @ \$ 75.00 per day )	\$ 300.00
- Geological Consultant ( P. Klewchuck )	\$ 325.00
- Report Preparation	\$ 225.00
<b>TOTAL</b>	<b>\$1750.00</b>

## 1990 WORK PROGRAM

A reconnaissance soil sample program was initiated on the L.D.M. #6 claim block during the late summer of 1990. The L.D.M. #6 claims are situated near the headwaters of Perry Creek. The claims are located on the eastern aspect between the tributaries of Limerick and Wuhun Creeks. Access to the property is gained through the use of good logging roads. At approximately 24 km you branch off onto an old road on the east side.

Two days of road repair were required to make this road vehicle useable. A number of water control problems were corrected along with the removal of heavy windfall material.

It was hoped that a soil reconnaissance program might provide valuable information pertinent to the source of encouraging heavy stream samples, and provide an area for more intensive sampling.

Streams draining through L.D.M. #6 were sampled in the early summer of 1988. Though highly anomolous values in base metals, and gold were seen no follow-up work was undertaken at that time. A spring in a landform depression provided the highest heavy sample anomalies in both gold, and base metals (spring fault on attached map). The formation in the watershed of the drainage is the Upper Creston rocks (HC3). This formation is known to contain carbonate rich beds in its upper sequence. The Perry Creek fault, a major structural break is proposed by G.S.C. mapping to project perpendicular to the drainage near its headwaters. The Perry Creek fault in other locations, eg: Price Pit: hosts impressive sulphide gold mineralization in shear zone related quartz viens. Of further interest is the existance of a large magnetic high slightly south east of the spring fault zone. This magnetic high may indicate the existance of more recent intrusive activity. Felsic intrusive are known to occur in the general area of magnetic highs in locations, in both Perry Creek and the Moyie River.

Two reconnaissance soil lines were run with the expectation of putting in a follow-up grid on any anomalous results. One 300 meter line was completed near the headwaters of the Spring Fault linear (L1), another was run near mid-slope, 400 meters north and south of the road fork (LN, LS, Figure 5).

Samples were taken with a mattock from the B Horizon, normally about 15 to 25 cm below surface. The samples were screened in the field using an 18 mesh screen. A large sample of about one kilogram was collected at each site. It was hoped that such a procedure would reduce the effects of coarse gold in the soil and provide more consistent data. A total of 44 samples were collected in this manner (Fig. 5).

Samples were sent to Acme Analytical Laboratories Ltd. in Vancouver and analyzed for a 32 element ICP package and geochemical gold by standard laboratory techniques.

A few of the higher values are shown on Figure 5, but as the results are not significantly anomalous, a complete map of the results has not been prepared. Complete geochemical results are provided in Appendix 1.

Values for both base and precious metals are generally low. The highest copper value is 34 ppm with only 3 samples over 20 ppm. The highest lead value is 20 ppm with only 6 samples over 15 ppm. The highest zinc value is 83 ppm with only 3 samples over 75 ppm. The highest silver value is .5 ppm with only 2 samples over .2 ppm. The highest gold value is 27 ppb; it is the only value above 7 ppb.

These results clearly demonstrate that no significant bedrock mineralization has been detected by the soil survey. The repeated anomalous stream geochemistry obtained from the small stream draining the survey area has not been elucidated by this survey and a soil survey at higher elevations is recommended.

## Authors Qualifications

1. I have been actively involved in mining and mineral exploration in the Province of British Columbia for the past 6 years
2. I have been employed by mineral exploration companies as a prospector and have participated in several exploration programs.

Dated at Cranbrook, British Columbia, this 21 day of December, 1990

*R.D. Craig Kennedy*  
R.D.C. Kennedy

**GEOLOGICAL MAP**

**CLAIM BOUNDARY**

**SOL LINE LN**

**SOL LINE LI**

**SOL LINE LS**

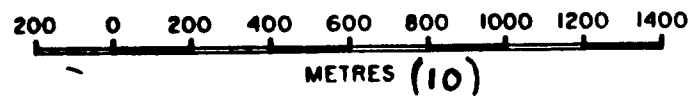
**SPRING FAULT LINEAR**

**PERRY CREEK FAULT**

**MAG. HIGH**

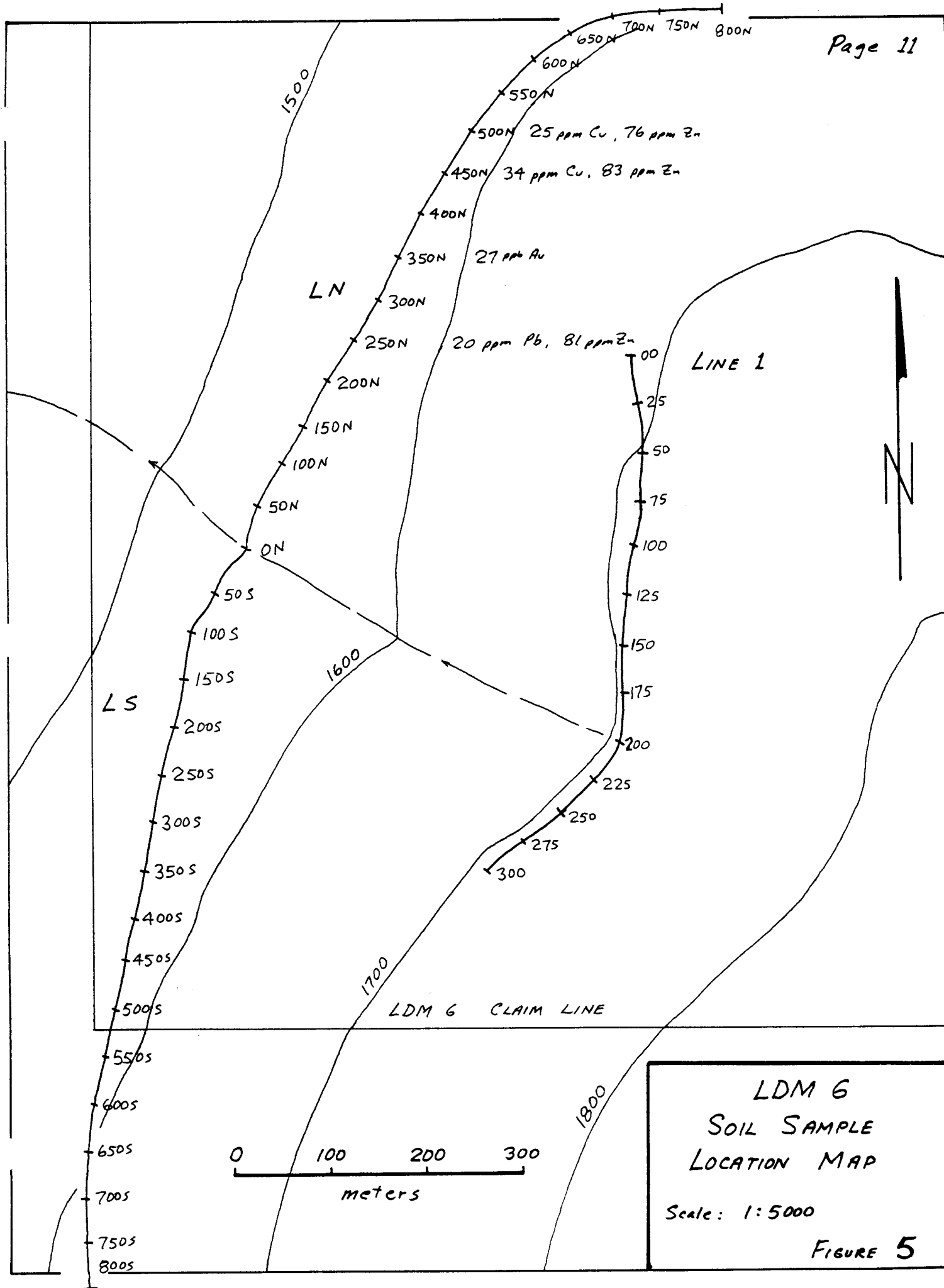
- Hk - Kitchener
- HC3 - Upper Creston
- HC2 - Middle Creston
- Fault

**SCALE 1:20 000**



**Fig. 4.**

- Road up-graded
- Soil Lines
- LI, LN, LS
- Spring Fault Linear
- Mag High



LDM 6  
SOIL SAMPLE  
LOCATION MAP  
Scale: 1:5000  
FIGURE 5

GEOCHEMICAL ANALYSIS CERTIFICATE

Chapleau Res. Ltd. File # 91-1446 Page 1  
 607 - 325 Howe St., Vancouver BC V6C 1Z1 Submitted by: MR.S.DALY



P.0002

TO 6828273

FROM ACME ANALYTICAL  
 MAY-30-1991 14:19

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	M	Au*
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppb	
800N	1	8	10	27	1	9	4	59	1.96	9	5	ND	7	4	2	2	2	17	.02	.043	26	12	.28	48	.04	3	1.50	.01	.05	1	2
750N	1	7	15	34	1	10	5	92	2.15	9	5	ND	7	5	2	2	2	24	.03	.080	18	11	.22	48	.04	2	2.19	.01	.05	1	3
700N	1	19	12	39	2	16	10	484	2.26	9	5	ND	6	9	2	4	2	28	.06	.144	5	11	.10	77	.18	5	5.88	.03	.03	1	1
650N	1	9	2	28	1	8	5	227	1.60	5	5	ND	8	3	2	2	2	9	.02	.023	32	8	.33	62	.03	2	1.09	.01	.04	1	2
600N	1	7	7	36	1	10	6	62	1.87	9	5	ND	11	3	2	2	2	11	.01	.023	46	10	.34	81	.03	2	1.23	.01	.07	1	2
550N	1	11	15	65	1	22	9	296	2.30	5	5	ND	12	8	2	2	2	19	.04	.047	21	12	.27	162	.10	4	3.16	.02	.07	1	1
500N	1	25	11	76	1	20	10	428	2.34	3	5	ND	9	8	2	2	2	19	.05	.068	23	12	.32	173	.09	2	2.83	.02	.08	1	5
450N	1	34	8	83	3	22	10	470	2.31	12	5	ND	9	11	2	4	2	24	.08	.089	18	14	.27	237	.12	3	3.27	.02	.08	1	1
400N	1	10	6	64	1	11	7	334	1.86	8	5	ND	8	9	2	2	2	18	.07	.088	23	10	.25	158	.09	2	2.37	.02	.07	1	1
350N	1	7	8	53	1	15	6	189	2.01	4	5	ND	8	5	2	2	2	16	.03	.047	33	12	.41	105	.05	7	1.72	.01	.07	1	27
300N	1	10	7	41	1	11	5	146	1.81	4	5	ND	6	5	2	2	2	17	.03	.066	24	11	.29	97	.07	2	1.83	.02	.06	1	3
250N	1	14	20	81	2	19	14	1899	2.37	10	5	ND	5	10	2	3	4	27	.08	.194	12	13	.18	155	.14	3	3.41	.02	.07	1	2
200N	1	9	9	57	1	15	9	285	1.81	11	5	ND	8	6	2	2	2	15	.04	.064	25	12	.30	114	.05	2	1.83	.01	.07	1	1
150N	1	8	6	22	1	14	6	97	1.56	2	5	ND	10	3	2	2	2	8	.02	.019	37	10	.42	75	.02	2	1.00	.01	.07	1	2
100N	1	14	8	52	5	13	6	235	2.56	12	5	ND	6	16	2	4	2	31	.15	.431	4	12	.10	134	.20	3	6.10	.03	.04	1	3
50N	1	5	2	28	2	13	6	90	1.64	9	5	ND	9	4	2	3	2	11	.02	.035	34	11	.40	124	.03	3	1.43	.01	.05	1	1
00N	1	15	18	33	1	13	7	154	2.46	3	5	ND	4	50	2	2	2	20	.35	.132	8	12	.23	368	.16	2	5.61	.04	.04	1	1
50S	1	9	15	44	1	17	14	1075	2.81	10	5	ND	12	10	2	2	2	23	.09	.363	18	13	.29	226	.10	4	3.82	.02	.06	2	1
100S	1	9	7	64	1	8	10	1436	2.03	4	5	ND	9	5	4	2	2	17	.03	.118	31	11	.23	109	.05	2	1.74	.01	.06	1	1
150S	1	4	2	66	1	13	8	279	1.88	4	5	ND	10	5	2	3	2	14	.04	.083	33	13	.65	113	.04	3	1.87	.01	.07	1	1
200S	1	9	16	44	1	18	11	104	3.03	5	5	ND	9	11	2	2	2	26	.08	.103	20	15	.24	193	.09	2	3.55	.01	.08	1	2
250S	1	12	4	65	1	13	6	276	2.31	3	5	ND	11	5	2	2	2	21	.04	.090	26	12	.21	93	.06	4	2.32	.01	.07	1	7
300S	1	3	7	36	1	13	7	115	1.82	3	9	ND	12	3	2	2	2	10	.02	.028	40	9	.27	72	.03	2	1.30	.01	.05	1	1
350S	1	3	7	58	1	14	7	128	2.14	3	5	ND	13	4	2	2	2	15	.02	.039	37	11	.26	92	.04	2	2.22	.01	.06	2	1
400S	1	21	12	71	1	18	12	361	2.12	7	5	ND	10	10	4	2	2	22	.06	.067	12	11	.17	129	.13	2	4.20	.02	.06	1	3
450S	1	12	15	61	1	16	9	182	3.14	2	5	ND	9	13	2	2	2	33	.10	.148	6	14	.12	86	.16	2	6.52	.02	.04	1	3
500S	1	8	7	40	2	11	8	92	2.38	8	5	ND	9	6	2	2	2	24	.04	.051	18	13	.22	89	.07	2	2.59	.01	.06	1	2
550S	1	11	12	73	1	27	16	417	2.41	7	5	ND	9	11	2	2	2	25	.06	.073	14	14	.25	158	.13	2	3.90	.02	.07	1	1
600S	1	4	13	33	1	12	6	78	1.87	6	5	ND	8	5	2	2	2	19	.03	.063	20	12	.28	66	.06	3	2.34	.01	.06	2	1
650S	2	8	18	68	1	17	9	185	2.49	2	5	ND	9	8	4	2	3	28	.05	.072	13	13	.20	135	.14	4	3.81	.02	.07	1	2
700S	1	6	11	54	1	14	8	416	2.03	3	5	ND	8	11	2	2	2	23	.06	.041	25	12	.26	124	.10	2	2.64	.02	.07	1	3
750S	1	7	17	68	1	17	10	687	2.16	4	5	ND	9	9	2	2	2	21	.07	.063	22	12	.24	145	.10	2	3.36	.01	.08	1	4
800S	1	5	12	66	1	12	9	496	2.17	5	5	ND	10	7	12	3	2	19	.05	.062	27	13	.27	164	.06	2	2.53	.01	.08	2	4
1-00	1	5	5	39	1	14	6	162	1.96	2	5	ND	7	5	2	2	2	20	.03	.036	21	14	.26	84	.07	2	2.33	.01	.06	1	3
1-25	1	4	2	35	2	13	7	85	1.40	2	5	ND	7	5	2	2	5	14	.04	.034	20	12	.25	73	.06	2	1.61	.01	.04	1	1
1-50	1	3	8	21	1	9	4	47	1.26	2	5	ND	8	3	2	2	2	10	.02	.023	27	10	.27	40	.03	2	1.02	.01	.04	1	6
STANDARD C/AU-S	20	64	42	135	7.0	73	34	1094	4.04	36	23	7	39	53	17.0	14	18	58	.50	.091	40	59	.87	174	.09	36	1.91	.06	.15	11	48

APPENDIX 1

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL AU DETECTION LIMIT BY ICP IS 3 PPM.  
 - SAMPLE TYPE: SOIL AU\* ANALYSIS BY ACID LEACH/AA FROM 10 GN SAMPLE.

DATE RECEIVED: MAY 27 1991 DATE REPORT MAILED: May 30/91 SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

