

LOG NO:	May 23/91	RD.
ACTION:		
FILE NO:		

PROSPECTING REPORT
- on the -
SPENCER GROUP
(FITZ 2 - FITZ.9 2 POST, AND FITZONE, FITZEMAL
4 POST MINERAL CLAIMS)
ALBERNI, VICTORIA MINING DIVISIONS, B.C.
NTS 92F/2 49° 03'N LATITUDE 124° 37'W LONGITUDE

PREPARED BY J. L. ZACKODNIK FOR SAME

91-05-08

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

21,330

SUMMARY

In January and February of 1991, reconnaissance, prospecting, rock sampling, and stream sediment sampling was undertaken on the Spencer claim group.

A total of 19 rock grab samples and 2 stream sediment samples were taken.

Quartzite outcrop exposed in road cuts, bearing sphalerite, chalcopyrite, pyrite, and galena returned results of up to 5700 PPB Au and 53 PPM Ag.

Prime targets for the property would be mineralized veins, shear zones, and skarns hosted by Vancouver group volcanics and limestone.

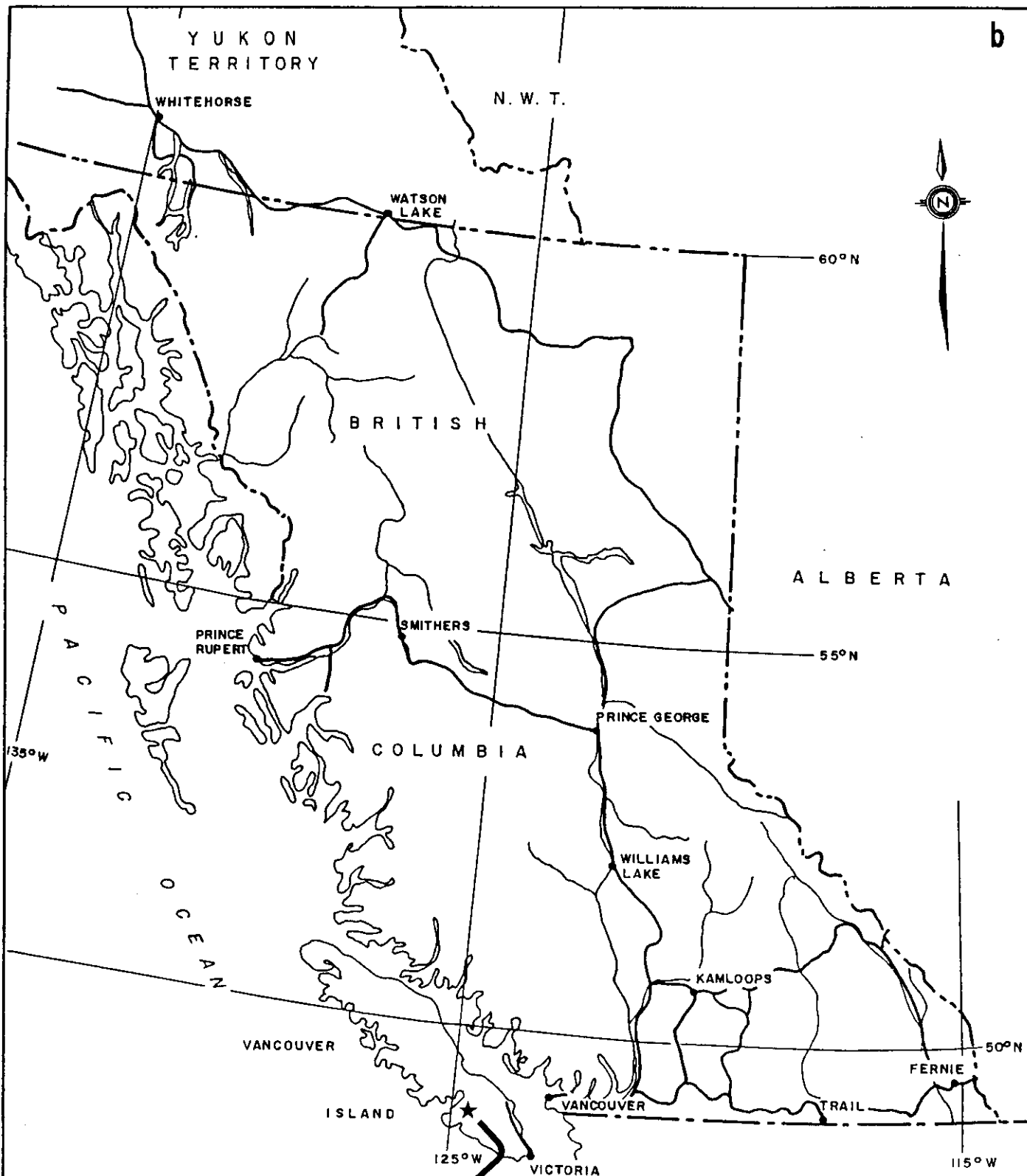
This report has been compiled to meet assessment requirements and is intended solely for my use.

TABLE OF CONTENTS

Summary	a
Introduction	1
Property Location, Access, and Title	1
Property History	2
Property Geology	3
Prospecting Activities	3
Rock Descriptions	3
Conclusions and Recommendations	6
Cost Statement	7
Certificate of Qualifications	8
References	9

LIST OF FIGURES

General Location Map	b
Claim Map	c
Regional Geology Map	d
Sample Locations	e
Certificate of Analysis	



SPENCER GROUP

SPENCER GROUP
GENERAL LOCATION MAP

Project No.	By: J.L.Z.
Scale: 1 : 8 000 000	Drawn: J. S.
Drawing No: 1	Date: 05/08/91

INTRODUCTION

This report describes the prospecting and subsequent results from samples taken on the Spencer Group of mineral claims during winter 1991 work activities.

PROPERTY LOCATION, ACCESS, AND TITLE

The Spencer Group of claims is located 22 kilometres southeast of Port Alberni in the Rift Creek Valley and on the south and east slopes of Mount Spencer. The center of the group is at roughly 49° 03' N latitude, 124° 37' W longitude on N.T.S. map sheet 92F/2. The claims are all located within the Victoria Mining Division, with the exception of the southwest portion of the Fitzzone, which is in the Alberni Mining Division.

Access to the claims is good via the Alberni-Bamfield road. At Franklin River take the Thistle Mine Road and Museum Road up Museum Creek to the M2 Junction. The Museum main Road runs southernly along Rift Creek through the claim block. Several logging roads provide access to the lower east slopes of Mount Spencer. These roads are generally accessible year round, although there are years when heavy snow pack in late winter restricts access.

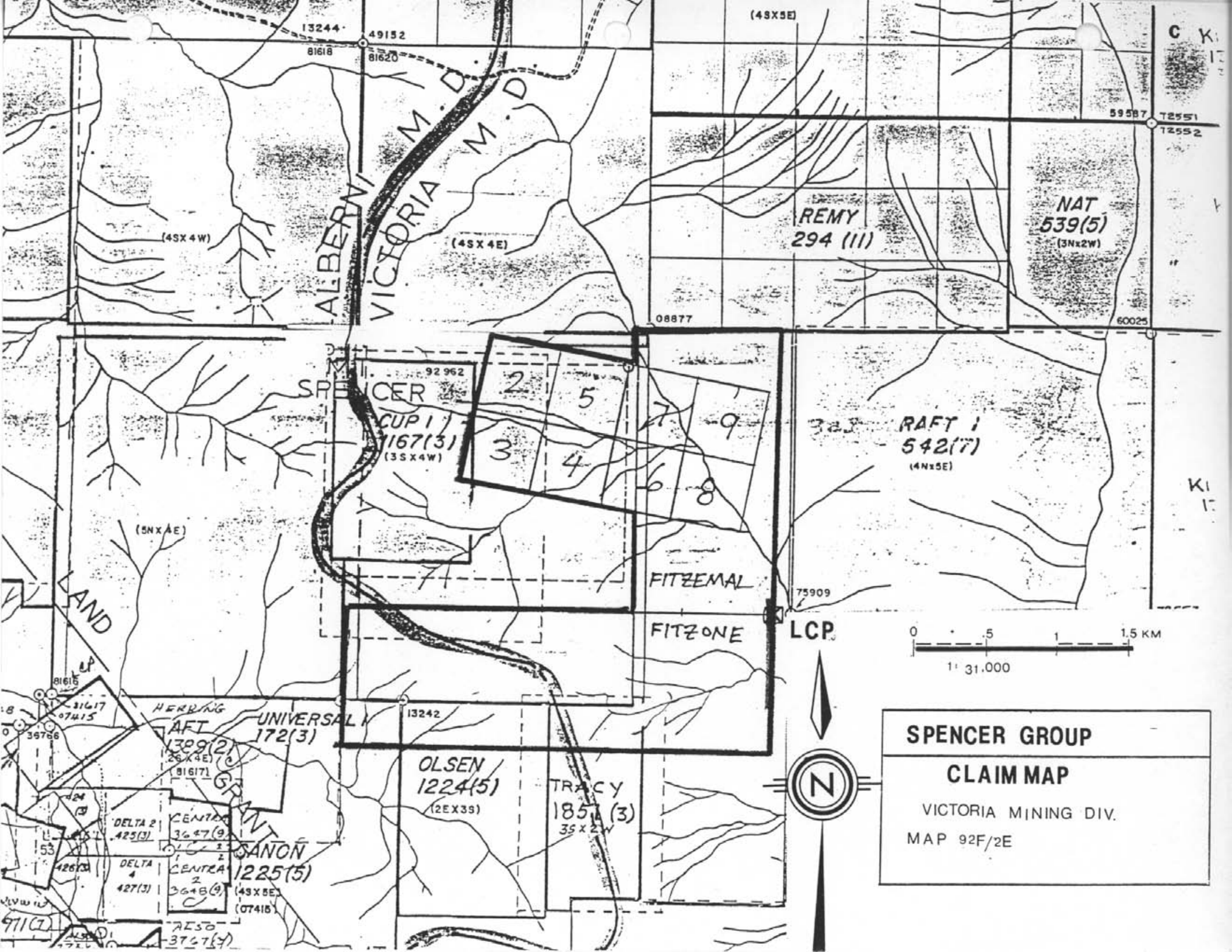
Claim titles are as follows:

CLAIM	RECORD #	UNITS	ANNIVERSARY DATE
Fitzzone	2485(2)	8*	26/02/92
Fitzemal	2486(2)	12	26/02/92
Fitz 2	2472(2)	1	26/02/92
Fitz 3	2473(2)	1	26/02/92
Fitz 4	2474(2)	1	26/02/92
Fitz 5	2475(2)	1	26/02/92
Fitz 6	2476(2)	1	26/02/92
Fitz 7	2477(2)	1	26/02/92
Fitz 8	2478(2)	1	26/02/92
Fitz 9	2479(2)	1	26/02/92

* Application to reduce from 20 to 8 units filed 26/02/91.

Notice to group the above titles under the name Spencer Group was filed February 26, 1991 at Port Alberni.

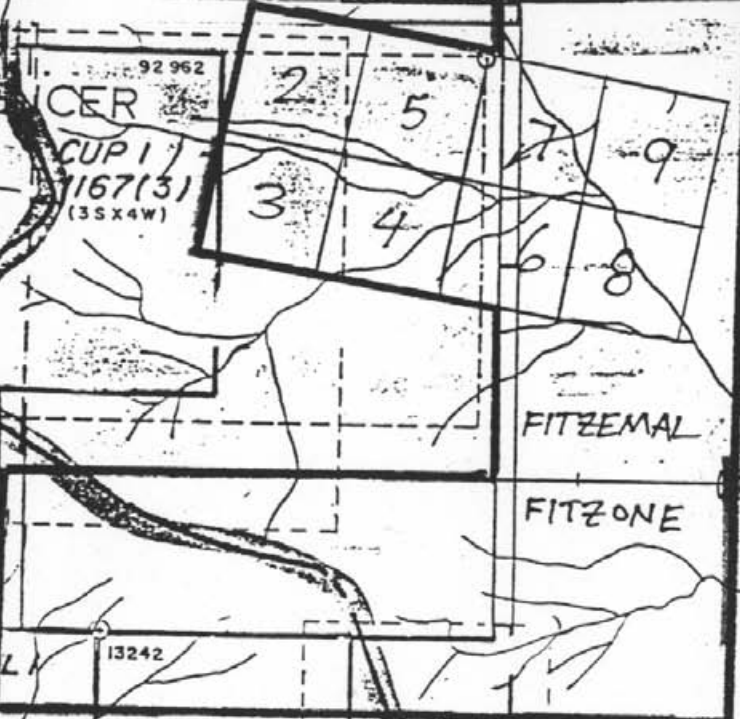
The Spencer Group of mineral claims is 100% owned by Jack L. Zackodnik.



ALBERNI M.D.
 VICTORIA M.D.

REMY
 294 (11)

NAT
 539 (5)
 (3N x 2W)



SPENCER GROUP

CLAIM MAP

VICTORIA MINING DIV.

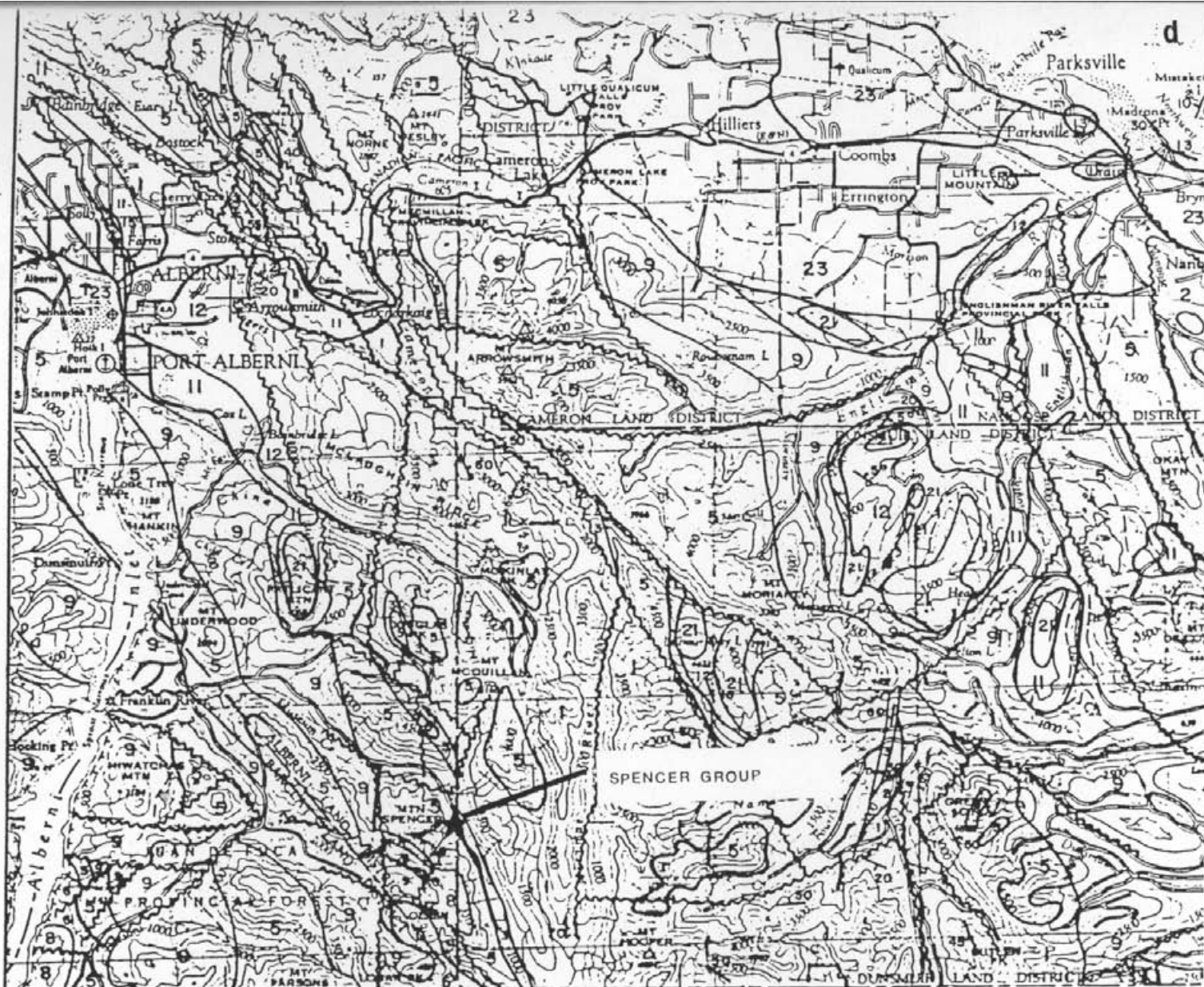
MAP 92F/2E

PROPERTY HISTORY

Prospecting and mining in the area dates back to 1860, with several producers, including the Thistle Mine, which produced 6867 tons averaging 0.39 oz/ton Au., 0.24 oz/ton Ag., and 4.56% Cu from 1938 to 1942.

The following summarizes work done in The Spencer Group area from 1962 thru 1988 (Neale and Naciuk, 1988).

- 1962 - Airborne magnetometer survey by Hunting Survey Corporation for the C.P.R. on the Mount Spencer area of the E. & N. Railway land grant.
- 1964 - CPOG in partnership with Gunnex Ltd. conducted to prospecting, staking, trenching, geological and
- 1966 geochemical surveys, detail mapping, various geophysical surveys, and 8 diamond drill holes totalling 1005 metres.
- 1967 - Cominco Ltd. conducted geological mapping, geophysical surveys, 4 diamond drill holes totalling 493 metres, and 5 Winkie D.D.H.'s totalling 135 metres.
- 1976 - Gold Valley Resources drilled 3 holes totalling 280 metres.
- 1979 - Summit Pass Mining Corporation prospected and to summarized previous work.
- 1981
- 1984 - Imperial Metals Corporation conducted on the Cup claim (owned by Imperial Metals Corporation), geochemical and geophysical surveys and geological mapping.
- 1985 - Ashworth Explorations Ltd., for Lode Resource Corporation, conducted reconnaissance geochemical sampling, prospecting, and geological mapping.
- 1986 - MPH Consulting Ltd., for Lode Resource Corporation, conducted reconnaissance geological mapping, rock sampling, prospecting, geochemical sampling, and geophysical surveys.
- 1987 - MPH Consulting Ltd., for Crew Minerals Inc. and TF to Resources Ltd., conducted prospecting, geological
- 1988 mapping, geochemical and geophysical surveys, trenching, and 9 diamond drill holes totalling 896 metres.



LEGEND

QUATERNARY

23 Glacial and alluvial deposits.

TERTIARY

21 Hornblende quartz diorite, leucoquartz monzonite, porphyritic dacite, breccia.

UPPER CRETACEOUS

NANAIMO GROUP

13 EXTENSION-PROTECTION FM.: sandstone, conglomerate, shale, coal.

12 HASLAM FM.: shale, siltstone, fine sandstone.

11 COMOX FM.: sandstone, conglomerate, shale, coal.

MIDDLE TO UPPER JURASSIC

9 ISLAND INTRUSIONS: biotite-hornblende granodiorite, quartz diorite.

LOWER JURASSIC

8 BONANZA GROUP: andesitic to latitic breccia, tuff, and lava; minor greywacke, argillite, and siltstone.

UPPER TRIASSIC

VANCOUVER GROUP

6 QUATSINO FM.: massive to thick bedded limestone, minor thin bedded limestone.

5 KARMUTSEN FM.: pillow-basalt and pillow breccia, massive basalt flows, minor tuff, volcanic breccia; Jasperoid tuff, breccia and conglomerate at base.

TRIASSIC OR PERMIAN

4 Gabbro, periodite, diabase.

LOWER PERMIAN TO PENNSYLVANIAN SICKER GROUP

3 BUTTLE LAKE FM.: limestone, chert.

2 MYRA FM.: lower unit; argillite, greywacke, conglomerate, tuff, minor limestone. Upper unit; rhyodacite to rhyolite tuff, lapilli tuff, breccia lesser siliceous siltstone, argillite, quartz porphyry and mafic flows.

1 NITINAT FM.: basaltic uraltite porphyry, agglomerate, pillow lava; greenschist.

0 5 10 km



SPENCER GROUP

REGIONAL GEOLOGY MAP

Project No.	By J.L.Z.
Scale: 1:250,000	Drawn: J.S.
Drawing No. 2	Date: 05/08/91

PROPERTY GEOLOGY

The Spencer Group appears to be underlain by rocks of the Paleozoic Sicker Group and Triassic Vancouver Group.

Volcanics outcropping on the Fitzemal claim consist of massive basaltic flows, pillow basalts, agglomeratic lapilli tuffs, and flow breccia.

Lithologies of outcrop in road cuts on the property consist of lithic tuff, pyritic chert, and interbedded light grey limestone, and grey to black calcareous siltstone.

Quartz and quartz carbonate veins in the Spencer Creek shear zone contain combinations of pyrite, arsenopyrite, sphalerite, chalcopyrite, galena, and pyrrhotite.

PROSPECTING ACTIVITIES

In January 1991, attempt was made to access the property. Heavy snow pack restricted this attempt.

From February 23, 1991 through February 26, 1991, prospecting was undertaken on The Spencer Group of mineral claims. This included sampling outcrop on the main road and logging roads which branch off it. Spencer Creek was also prospected. Stream sediment samples were taken on Spencer Creek and the next major drainage to the south (Creek #2 on map).

ROCK DESCRIPTIONS

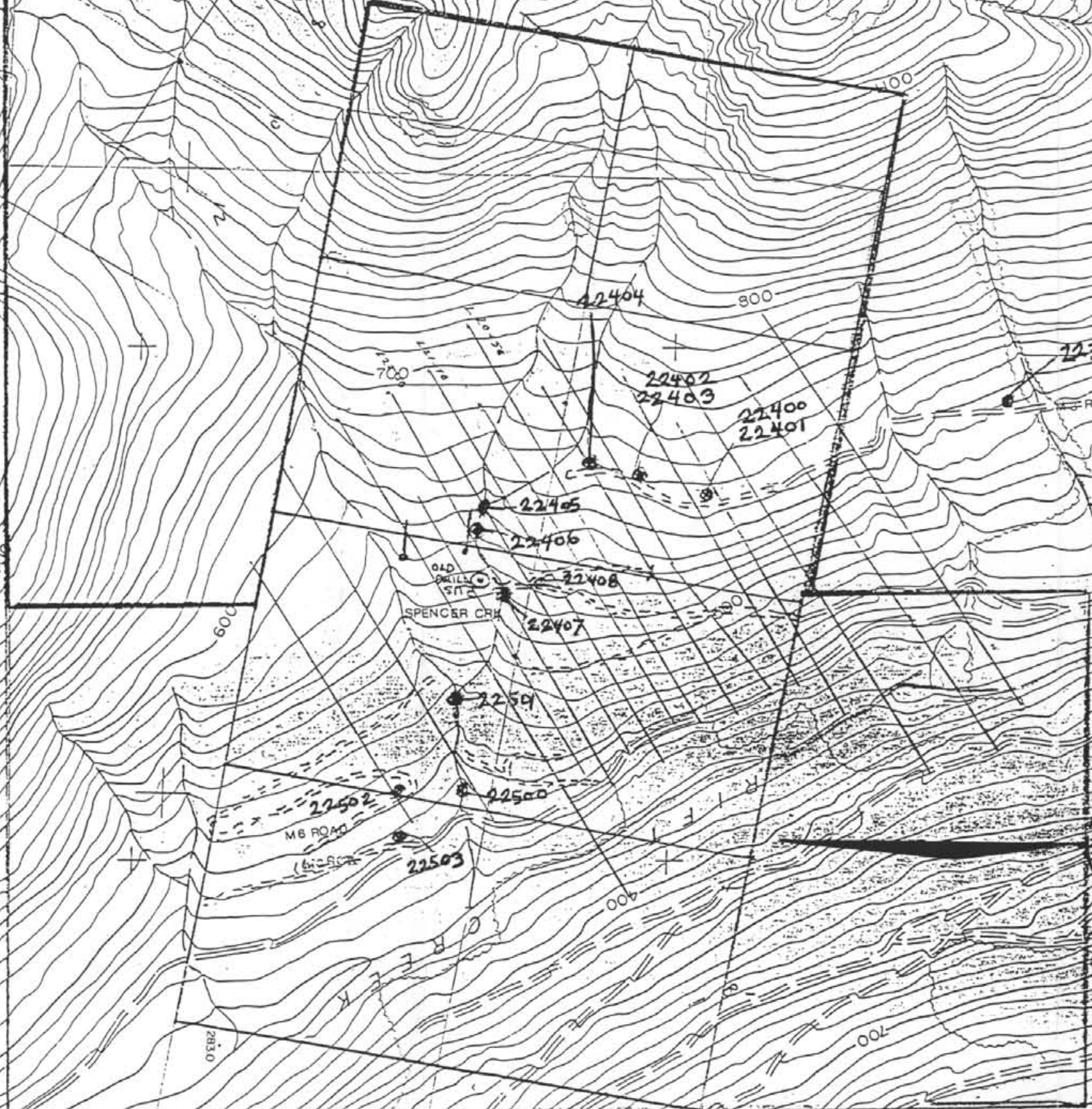
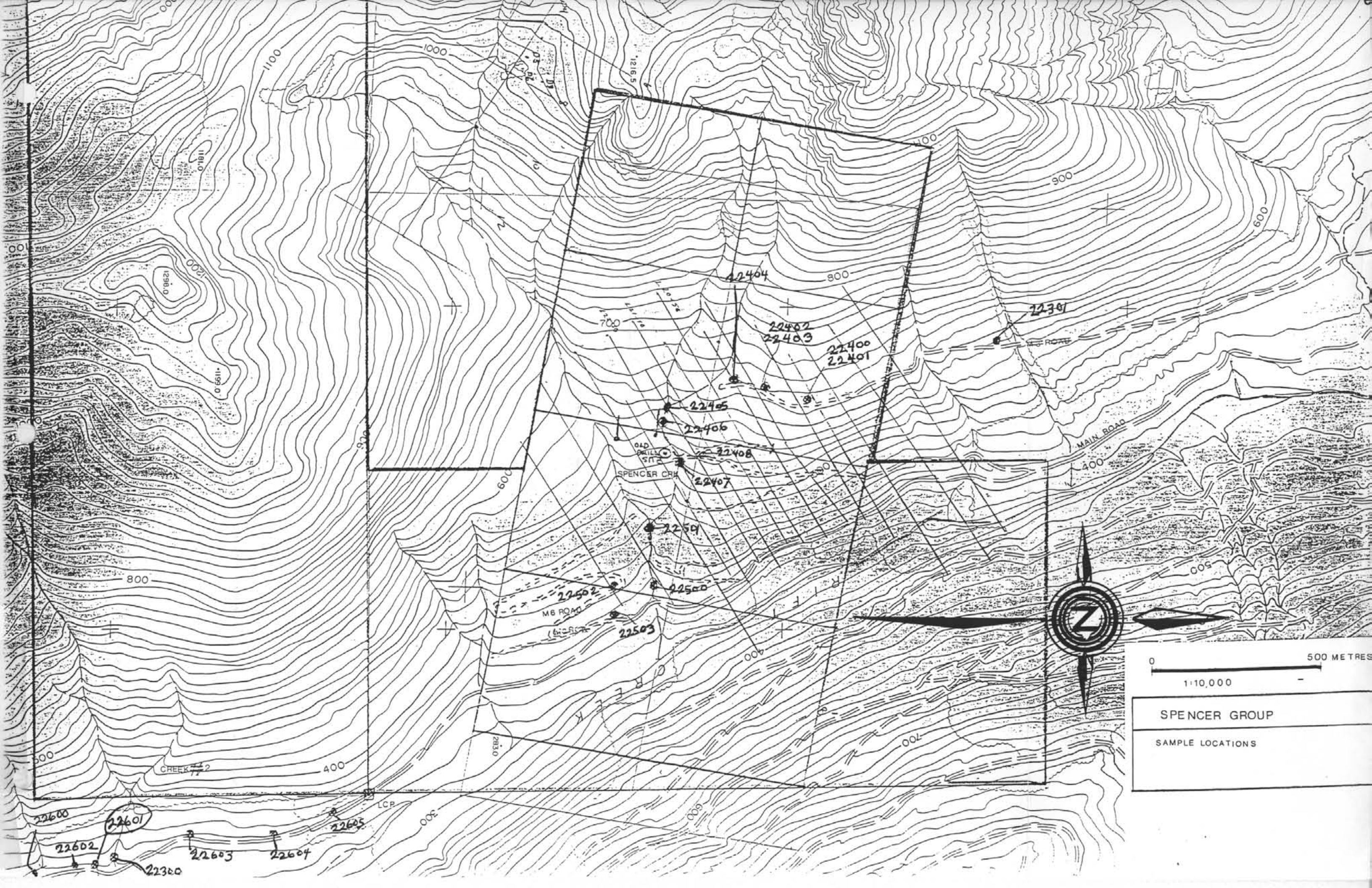
SAMPLE NUMBER	LOCATION	DESCRIPTION
91J22300	Creek #2	Stream sediment
91J22301	M-3 Road	Outcrop grab: Limy chert with abundant calcite stringers. 1-3% pyrite disseminated throughout.
91J22400	M-3 Road	Outcrop grab: Calcareous quartzite with crosscutting sulphide stringers up to 3 cm. containing 30% sphalerite, 2-4% chalcopyrite, 2-5% pyrite, and up to 25% galena, exposed 3 m. in outcrop.

ROCK DESCRIPTIONS CONTINUED

SAMPLE #	LOCATION	DESCRIPTION
91J22401	M-3 Road	Outcrop grab: Calcareous quartzite with disseminated sulphides consisting of 4-7% pyrite, 3-5% galena, 3-5% sphalerite, and 1-3% chalcopyrite, exposed 3 m. in outcrop.
91J22402	M-3 Road	Outcrop grab: Light green to grey chert with 2-5%, fine to coarse grained disseminated pyrite.
91J22403	M-3 Road	Outcrop grab: Epidote altered quartzite containing 3-5% fine-grained pyrite, trace arsenopyrite, and trace malachite (2%).
91J22404	M-3 Road	Outcrop grab: Dark grey limestone with crosscutting stockwork. Quartz stringers containing up to 5% disseminated pyrite.
91J22405	Spencer Crk.	Float: Dark green silicified volcanic (?) with a crosscutting diorite dyke (less than 2 cm.) up to 4% pyrrhotite along dyke selvage.
91J22406	Spencer Crk.	Outcrop grab: Dark grey limestone with a 2 cm. crosscutting calcite stringer containing 15-20% pyrite and 3-5% chalcopyrite.
91J22407	Spencer Crk.	Outcrop grab: Dark grey limestone containing trace coarse-grained pyrite.
91J22408	M-4 Road	Outcrop grab: Medium grey limestone with abundant crosscutting carbonate stringers. Contains nodular pyrite up to 2 cm.
91J22500	Spencer Crk.	Stream sediment.

ROCK DESCRIPTIONS CONTINUED

SAMPLE #	LOCATION	DESCRIPTION
91J22501	Spencer Crk.	Float: Vuggy quartz with heavy Fe stain. Abundant similar float in area.
91J22502	M-6 Road	Outcrop grab: Silty chert with cross-cutting quartz-carbonate stringers. Contains 5-7% fine to coarse-grained disseminated pyrite.
91J22503	M-6 Road	Outcrop grab: Limestone with heavy Fe stain containing up to 50% pyrite within a possible quartz veinlet.
91J22600	Main Road	Outcrop grab: Light grey siltstone with heavy Fe stain, from strong shear zone. Contains trace pyrite.
91J22601	Main Road	Outcrop grab: Epidote-altered volcanic (andesite?). Contains up to 50% pyrite on fracture surfaces.
91J22602	Main Road	Float: Cherty tuff (?) dark grey heavy Fe stain along fractures. Pyrite nodules up to 1.5 cm. up to 15% fine-grained pyrite disseminated throughout.
91J22603	Main Road	Outcrop grab: Medium grey chert containing 3-5% disseminated pyrite, trace pyrrhotite, trace arsenopyrite.
91J22604	Main Road	Outcrop grab: Epidote-altered, manganese-stained volcanic (andesite?), trace disseminated pyrite.
91J22605	Main Road	Outcrop grab: Dark grey limy chert. 3-5% pyrite disseminated throughout.



22404
22402
22403
22400
22401

22405
22406
22408
22407

22501
22502
22500
22503

22301

22600
22601
22602
22603
22604
22605
22300



SPENCER GROUP
SAMPLE LOCATIONS

CONCLUSIONS AND RECOMMENDATIONS

Exposed mineralization within the property contains up to 75% sulphides. Rock sample results include up to 5700 PFB Au and 53 PPM Ag.

It is recommended that extensive prospecting be undertaken. Several grids for geochemistry and geophysical surveys should also be put in, to help locate prospective drill targets.

Based on prospecting results, it is concluded that The Spencer Group has significant exploration potential and that further work is warranted.

COST STATEMENT

PERSONNEL

Prospector - J. L. Zackodnik	5 days @ 200.00	\$ 1000.00
Consultant - E. W. Hayes	1 day @ 350.00	350.00
Field Assistant - M. Crittenden	5 days @ 100.00	500.00

TRANSPORTATION

Truck	5 days @ 90.00	450.00
Ferry		60.00
Fuel and oil		64.16

FOOD AND ACCOMMODATION

Groceries		66.00
Room	5 days @ 40.00	200.00

LABORATORY COST FOR ANALYSES

19 rocks @ 15.50	294.50
2 stream sediments @ 13.00	26.00

MAPS	20.09
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MISCELLANEOUS	23.00
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SAMPLE BAGS, FLAGGING, ETC.	50.00
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REPORT COSTS	100.00
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TOTAL COST	<u>3,203.75</u>
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CERTIFICATE OF QUALIFICATIONS

I, Jack L. Zackodnik, do hereby certify:

- 1) That I am a self-taught prospector.
- 2) That I have worked in mineral exploration for 10 years. (B.C. and Yukon).
- 3) That I am respected in the industry for my work ethics.



Jack L. Zackodnik
FMC 129757

91-05-08

REFERENCES

T. Neale, T.M. Naciuk, 1988
Report on Geology, Geophysics, and Diamond Drilling
Fitzwater Group for Crew Minerals Inc./T.P. Resources Ltd.,
February 29, 1988

TED, PLEASE NOTE THE ORDER OF THE SAI FILE NUMBER
IS DIFFERENT FROM THE ORIGINAL CERTIFICATE!

ROSSBACHER LABORATORY LTD.

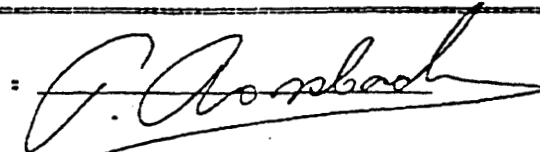
2225 S. Springer Ave., Burnaby,
British Columbia, Can. V5B 3R1
Ph: (604)299-6919 Fax: 299-6252

CERTIFICATE OF ANALYSIS

TO : CME CONSULTING LTD.
#2405-555 WEST HASTINGS STREET
VANCOUVER, B.C.
PROJECT : FIT (TED HAYES)
TYPE OF ANALYSIS : ICP

CERTIFICATE # : 910556
INVOICE # : PENDING
DATE ENTERED : 91-03-08
FILE NAME : CME91055.1
PAGE # : 1

PRE FIX	SAMPLE NAME	PPH NO	PPH CU	PPH PB	PPH ZN	PPH AG	PPH NI	PPH CD	PPH MN	Z FE	PPH AS	PPH U	PPH AU	PPH HG	PPH SR	PPH CD	PPH SB	PPH BI	Z V	Z CA	Z P	PPH LA	PPH CR	Z MG	PPH BA	Z TI	Z AL	Z MA	Z SI	PPH M	PPH DE	PPH AM
L	91J03106	5	151	121	256	0.4	30	19	1276	3.89	32	5	ND	ND	28	4	8	12	90	0.96	0.14	16	35	0.79	123	0.02	1.55	0.01	0.01	7	2	5
L	91J03101	2	158	13	119	0.2	113	22	1014	5.07	8	5	ND	ND	26	1	7	7	121	0.67	0.07	6	81	2.82	50	0.19	3.11	0.02	0.01	4	2	10
L	91J03102	1	157	1	103	0.1	104	18	961	5.12	2	5	ND	ND	28	1	2	2	123	0.65	0.07	3	76	2.65	37	0.20	3.23	0.02	0.01	1	2	5
A	91J03103	1	698	1	94	1.0	98	10	337	2.60	2	5	ND	ND	109	1	2	2	40	2.26	0.07	2	42	1.24	6	0.11	4.63	0.16	0.04	1	1	20
L	91J22300	1	120	6	122	0.1	61	22	1214	5.42	15	5	ND	ND	20	1	9	8	134	1.10	0.09	9	54	2.01	30	0.26	2.94	0.01	0.01	6	3	5
A	91J22301	1	26	11	49	0.2	16	4	140	0.75	6	5	ND	ND	177	1	2	2	6	11.78	0.06	12	13	0.57	15	0.01	0.17	0.01	0.01	1	1	5
A	91J22400	9	1747	13537	60799	41.7	4	2	1897	2.67	121	5	5	ND	26	956	166	2	1	4.57	0.05	4	42	2.66	2	0.01	0.04	0.02	0.01	2	1	5700
A	91J22401	9	1307	7991	69120	53.4	3	2	2496	1.81	58	5	3	ND	34	960	145	2	1	6.09	0.05	5	46	3.46	2	0.01	0.03	0.02	0.01	2	1	3500
A	91J22402	1	112	25	189	0.2	153	26	950	4.57	282	5	ND	ND	38	7	7	2	91	4.52	0.18	11	154	5.70	23	0.01	2.83	0.01	0.06	1	2	100
A	91J22403	1	196	24	261	0.9	166	34	1258	3.60	532	5	ND	ND	54	3	9	2	34	6.37	0.22	13	81	4.04	28	0.01	1.07	0.01	0.03	1	1	400
A	91J22404	1	81	4	917	0.1	3	3	859	0.39	2	5	ND	ND	209	6	2	2	4	26.06	0.05	16	31	2.68	12	0.01	0.03	0.02	0.01	1	1	460
A	91J22405	1	388	4	68	0.5	30	16	147	3.16	5	5	ND	ND	34	2	6	4	95	1.01	0.08	4	29	0.30	6	0.12	1.02	0.03	0.04	3	2	5
A	91J22406	2	2273	316	3723	20.0	4	14	1275	7.16	1140	5	ND	ND	122	39	11	29	4	15.52	0.04	13	37	0.38	12	0.01	0.08	0.01	0.01	1	1	200
A	91J22407	1	54	12	145	0.2	10	5	807	0.82	57	5	ND	ND	171	3	5	7	5	13.12	0.13	12	14	0.34	17	0.01	0.11	0.01	0.01	1	1	20
A	91J22408	1	696	57	65	6.2	1	2	1051	3.07	1173	5	ND	ND	213	1	2	2	2	20.30	0.06	11	49	3.19	8	0.01	0.05	0.02	0.01	1	1	3800
L	91J22500	3	317	17	188	0.4	74	26	1069	5.51	66	5	ND	ND	28	1	5	2	135	1.11	0.09	8	62	2.35	31	0.24	3.03	0.02	0.02	4	3	80
A	91J22501	3	22	8	29	0.1	10	4	173	0.92	19	5	ND	ND	4	2	3	2	8	0.28	0.01	1	54	0.07	5	0.01	0.31	0.01	0.02	3	1	5
A	91J22502	1	13	7	123	0.1	22	1	101	2.84	31	5	ND	ND	44	1	4	2	5	2.80	0.15	23	33	1.90	32	0.01	2.10	0.01	0.03	1	2	5
A	91J22503	1	27	1	38	0.1	3	1	243	0.50	2	5	ND	ND	134	1	2	2	4	16.72	0.06	7	74	7.12	7	0.01	0.25	0.02	0.01	1	1	5
A	91J22600	2	63	3	66	0.1	124	28	30	3.81	36	5	ND	ND	31	1	3	2	25	1.40	0.12	1	48	2.73	18	0.01	2.37	0.01	0.07	1	1	5
A	91J22601	1	171	1	100	0.1	60	22	671	5.10	2	5	ND	ND	15	1	2	2	92	0.92	0.08	2	61	2.08	6	0.38	2.55	0.02	0.03	1	2	5
A	91J22602	1	180	1	96	0.1	57	19	620	6.22	2	5	ND	ND	23	1	2	2	127	1.00	0.07	1	63	1.88	21	0.50	2.84	0.02	0.05	1	2	30
A	91J22603	10	129	1	114	0.1	11	19	565	4.56	55	5	ND	ND	33	1	2	2	64	0.92	0.12	4	36	1.02	50	0.01	1.84	0.02	0.07	1	1	5
A	91J22604	1	135	1	60	0.1	43	11	513	3.59	2	5	ND	ND	14	1	2	2	123	2.12	0.06	1	49	1.30	10	0.45	2.70	0.01	0.03	1	2	5
A	91J22605	1	26	7	65	0.1	18	5	225	1.08	2	5	ND	ND	241	1	2	2	7	15.55	0.06	18	18	0.67	14	0.01	0.16	0.02	0.01	1	1	5
A	91022800	35	5578	9	1236	6.4	15	36	1286	11.49	8	5	ND	ND	8	14	10	10	8	3.96	0.06	4	72	0.08	8	0.02	0.31	0.01	0.06	10	1	40
A	91022801	12	144	20	75	1.0	6	9	836	8.40	171	5	ND	ND	5	1	7	8	65	6.22	0.17	3	51	1.24	23	0.02	2.32	0.01	0.05	8	2	220
A	91030100	1	115	11	54	0.1	36	18	869	3.60	5	5	ND	ND	59	1	4	6	113	8.22	0.07	7	54	1.64	8	0.24	1.64	0.02	0.03	1	2	5
A	91030101	1	35	15	51	0.1	14	6	130	1.06	2	5	ND	ND	271	1	2	7	16	18.34	0.06	10	15	0.22	12	0.01	0.93	0.04	0.02	1	1	5
A	91030102	6	8405	13433	20860	154.7	63	272	84	8.22	1946	5	2	7	6	200	33	374	1	0.48	0.01	3	49	0.02	1	0.01	0.05	0.02	0.01	1	1	2220
A	TS 1	4	303	35	204	0.7	149	34	1115	6.76	23	5	ND	ND	56	1	3	2	147	1.00	0.12	4	123	4.13	38	0.16	3.96	0.02	0.01	1	3	10

CERTIFIED BY : 

ROSSBACHER LABORATORY LTD.

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CERTIFICATE OF ANALYSIS

TO : CME CONSULTING LTD.
#2405-555 WEST HASTINGS STREET
VANCOUVER, B.C.
PROJECT : FIT (TED HAYES)
TYPE OF ANALYSIS : GEOCHEMICAL

CERTIFICATE # : 910556
INVOICE # : PENDING
DATE ENTERED : 91-03-08
FILE NAME : CME91055
PAGE # : 1

FRE FIX	SAMPLE NAME	PPM Ag	FPB Au
A	9 T022800	6.4	40
A	9 T022801	1.0	220
A	9 T030100	0.1	5
A	9 T030101	0.1	5
A	9 T030102	>100	2220
L	91 J 03100	0.4	5
L	91 J 03101	0.2	10
L	91 J 03102	0.1	5
A	91 J 03103	1.0	20
L	91 J 22300	0.1	5
A	91 J 22301	0.2	5
A	91 J 22400	41.7	5700
A	91 J 22401	53.4	3500
	91 J 22402	0.2	100
	91 J 22403	0.9	400
A	91 J 22404	0.1	460
A	91 J 22405	0.5	5
A	91 J 22406	20.0	200
A	91 J 22407	0.2	20
A	91 J 22408	6.2	3800
L	91 J 22500	0.4	80
A	91 J 22501	0.1	5
A	91 J 22502	0.1	5
A	91 J 22503	0.1	5
A	91 J 22600	0.1	5
A	91 J 22601	0.1	5
A	91 J 22602	0.1	30
A	91 J 22603	0.1	5
A	91 J 22604	0.1	5
A	91 J 22605	0.1	5
M	TS 1	0.7	10

A = ROCK

L = SILT

M = MOSS

CERTIFIED BY :

