'79-#201-#7318

DOG CLAIMS

Omineca M.D. N.T.S. 94F/7W

57°22'N 124°50'W

G.D. Hodgson March 1979

Owner and Operator: Riocanex Limited

Work performed on following claims:

Claim Name	Record Date	Expiry Date
DOG 1	780725	790725
DOG 2	781003	791003
DOG 4	781003	791003
DOG 5	781003	791003
DOG 6	781003	791003
DOG 7	781003	791003
DOG 8	781003	791003

DOG CLAIMS

Omineca M.D. N.T.S. 94F/7W

57°22'N 124°50'W

G. D. Hodgson March 1979

SUMMARY

The property lies in the Rocky Mountains of northern British Columbia. Seven claims (56 units) were staked to cover an area of Devono-Mississippian shales moderately anomalous with respect to lead in stream silts. No sulphide showings have been found.

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APPENDICES

LIST OF ILLUSTRATIONS

1. INTRODUCTION

Devono-Mississippian black shales in northeastern British Columbia were thought to be southern equivalents of similar shales in the Yukon Territory and Mackenzie District, N. W. T., which host important deposits of lead and zinc. A regional reconnaissance programme that included geochemical stream silt sampling, geological mapping and prospecting confirmed that the black shales in northeastern British Columbia have economic potential and four groups of claims, including the DOG claims, were subsequently staked.

2. LOCATION AND ACCESS

The DOG claims lie on the Akie River north of Williston Lake in northern British Columbia approximately 300 km NW of Fort St. John, 200 km SW of Fort Nelson and 30 km east of the Indian settlement of Fort Ware. After spring breakup barges run to Deserters Canyon at the north end of the Lake. Fort Ware and Ingenika have gravel air strips.

N.T.S. 94 F/7W
Lat: $57^{o}22'N$ Long: $124^{o}50'W$

3. TOPOGRAPHY AND VEGETATION

The area is mountainous. Elevations range between 1100 and 2000 m above sea level. Slopes are moderate to steep. Much of the claim block lies above tree line. Lower slopes are covered in dense scrub. Relatively open spruce forest occupies valley bottoms.

4. HISTORY AND PREVIOUS WORK

None.

5. WORK PERFORMED IN 1978

The DOG claims were staked during a regional reconnaissance programme that included geological prospecting and stream silt sampling.

FLUKE

DOG 2
1483(10)

DOG 1
1305(7)

DOG 5
1485(10)

DOG 4
1484(10)

DOG 6
1486(10)

DOG 7
1487(10)

DOG 8
1488(10)

Akie River

ELF

57°25'

124°45'

57°20'

N

N.T.S. 94 F 7W

SCALE 1:50,000

1000 500 0 1000 2000 3000 4000 Metres

RIO TINTO CANADIAN EXPLORATION LTD.

DOG CLAIMS

CLAIM MAP

s. g. | MAR. 1979 | DWG. C-6553

6. PERSONS EMPLOYED

Field party chief C. Graf lead a silt sampling team of six persons, and was responsible for the prospecting. Northern Mountain Helicopters Ltd., under contract to Riocanex, supplied helicopter support.

The programme was carried out under the general supervision of R. V. Longe, Riocanex District Geologist, B.C.

7. REGIONAL GEOLOGY

Devono-Mississippian black shales on the DOG claims are believed to be a southern extension of those in the Selwyn Basin (Yukon Territory and Mackenzie District, N.W.T.) where such shales contain important deposits of lead and zinc. These shales comprise part of a Paleozoic succession of shales, siltstones and carbonates that have been deformed by folding, faulting and thrusting. Tectonic elements trend NW-SE. Mapping has been by Gabrielse (1962, 1977), Taylor and Stott (1973), Taylor (1979), and Graf (1979).

8. LOCAL GEOLOGY

The DOG claims are underlain by dark grey to black graphitic shales, cherty in part, thought to be of Devono-Mississippian age. Layers of nodular barite are not uncommon. The shales are flanked to the northeast by a dun coloured dolomitic siltstone of Silurian age. Ordovician carbonates have been thrust over the black shales from the southwest.

9. GEOCHEMISTRY

Stream silt samples were taken from creeks draining the DOG claims. Sample sites are plotted on DWG. GC-6556 and results are shown in DWG. GC-6559. Values greater than 30 ppm Pb and 40 ppm Cu are considered to be anomalous. It is assumed the lead values reflect the metalliferous nature of the underlying shales and it is hoped they may indicate the presence of mineralization. The meaning of the moderately high copper values is unclear, though Graf (1979) suggested they are due to the proximity of thin volcanic units within nearby Road River rocks. Zinc values vary considerably. Although they commonly excede 1,000 ppm, and locally reach 19,000 ppm, such high zinc values are not considered significant.

10. RESULTS

9.1 The Devono-Mississippian black shales are generally rich in lead.

9.2 The shales display geologic features characteristic of important Ba-Pb-Zn deposits elsewhere:

.1 Graphite-rich.

.2 Commonly siliceous, cherty.

.3 Occurrence of barite.

11. CONCLUSION

The DOG claims overlie metalliferous shales that have potential for hosting Ba-Pb-Zn mineralization.

G. D. Hodgson

H. W. Marsh P. Eng.

VANCOUVER OFFICE
April 1979

12. REFERENCES

GABRIELSE, H., 1962: Geol. Surv. Can. Map 42-1962.

GABRIELSE, H., 1977: Geol. Surv. Can. O. F. 483

GRAF, C., 1979: Riocanex Rept.

TAYLOR, G.C., 1979: Geol. Surv. Can. O. F. 606

TAYLOR, G.C., and STOTT, D.F., 1973: Tuchodi Lakes Map-Area, British Columbia, Geol. Surv. Can. Mem. 373

APPENDIX I

GEOCHEMICAL SAMPLE RESULTS

RIO TINTO CANADIAN EXPLORATION LIMITED

LABORATORY REPORT

PARTS PER MILLION

LAB Nº.	SAMPLE Nº. (NMBR)		Cu	Pb	Zn					COMMENTS
121	7810396		24	22	305					
2	397		22	13	125					
3	398		28	14	46					
4	399		32	14	570					
5	466		18	ND	27,000					H. F.
6	467		5	ND	4000					H. F.
7	468		26	18	16,000					
8	469		26	8	20,000					
9	470		41	15	14,000					
130	471		37	19	1700					
1	472		38	14	11,000					
2	473		36	17	5,000					
3	474		39	19	205					
4	475		31	16	3300					
~~5~~	~~STD 1~~		~~19~~	~~30~~	~~900~~					
6	476		26	21	400					
7	477		29	16	2900					
8	478		24	18	800					
9	479		26	14	2600					
140	480		23	21	225					
1	481		25	17	1220					
2	482		27	42	760					
3	483		26	335	235					
4	484		18	25	305					
~~5~~	~~BLANK~~		~~ND~~	~~ND~~	~~ND~~					
6	485		23	33	780					
7	486		46	24	720					
8	487		31	28	260					
9	488		28	22	800					
150	7810489		37	15	120					
~~1~~	~~7810707~~		~~17~~	~~13~~	~~143~~					
2	720		42	14	650					
3	735		20	11	570					
4	910		33	10	700					
5	921		33	13	95					
6	357		75	22	222					
7	370		41	17	470					
8	387		29	16	168					
9	472		35	13	12,000					
160	7810484		15	21	360					

REPORT Nº. 78-17

RIO TINTO CANADIAN EXPLORATION LIMITED

LABORATORY REPORT

PARTS PER MILLION

LAB Nº.	SAMPLE Nº. (NMBR)		Cu	Pb	Zn					COMMENTS
1	7810490		19	16	140					
2	91		32	15	295					
3	92		32	16	220					
4	93		31	14	390					
5	94		19	17	540					
6	95		28	13	285					
7	96		36	15	230					
8	97		24	13	175					
9	98		36	14	190					
10	99		28	13	115					
1	500		27	15	120					
~~2~~	~~STD 2~~		~~32~~	~~370~~	~~270~~					
3	01		22	14	180					
4	02		38	ND	8,000	*				H. F.
5	03		44	8	4,800					
6	04		26	9	290					
7	05		26	8	295					
8	06		*83	*40	150					
9	07		38	11	1150					
20	08		53	18	810					
1	09		26	10	345					
~~2~~	~~BLANK~~		~~ND~~	~~ND~~	~~ND~~					
3	10		37	ND	7,500	*				H. F.
4	11		41	13	490					
5	12		20	ND	3,300					H. F.
6	13		49	13	2,200					
7	14		39	11	1030					
8	15		5	ND	8,000	*				H. F.
9	16		30	10	570					
30	17		44	11	2,000					
1	18		39	12	350					
2	19		26	10	415					
3	20		40	9	740					
4	21		28	10	560					
5	22		57	23	260					
6	23		6	ND	13,000	*				H. F.
7	24		40	13	1000					
8	24B		38	15	360					
9	25		48	12	600					
40	7810526		36	7	330					

REPORT Nº. 78-18

RIO TINTO CANADIAN EXPLORATION LIMITED

LABORATORY REPORT

PARTS PER MILLION

LAB Nº.	SAMPLE Nº. (NMBR)		Cu	Pb	Zn					COMMENTS
1	7910541		34	12	~~2100~~	530				
2	542		20	10	110					
3	543		24	10	235					
4	544		32	13	245					
5	545		25	11	215					
6	546		25	10	225					
7	547		23	13	152					
8	548		23	10	220					
9	549		22	11	225					
10	550		24	10	230					
1	551		32	12	235					
~~2~~	~~STD~~		~~[illegible]~~	~~[illegible]~~	~~230~~					
3	552		26	10	215					
4	553		27	11	240					
5	554		25	11	215					
6	555		25	10	215					
7	556		37	16	230					
8	557		42	16	240					
9	558		14	7	142					
20	559		14	9	136					
1	560		26	13	540					
~~2~~	~~BLANK~~		~~10~~	~~10~~	~~10~~					
3	561		56	19	3200					
4	562		46	11	2500					
5	563		100	12	1160					
6	564		142	19	2900					
7	565		51	39	2600					
8	566		27	13	730					
9	567		62	7	19,000					
30	568		27	12	610					
1	569		30	14	580					
2	570		15	10	48					
3	571		43	14	180					
4	572		40	17	210					
5	573		45	18	450					
6	574		28	13	215					
7	575		60	32	850					
8	576		37	14	420					
9	577		43	39	1430					
40	7910578		24	14	315					

REPORT Nº. 78-30

RIO TINTO CANADIAN EXPLORATION LIMITED

LABORATORY REPORT

PARTS PER MILLION

LAB Nº	SAMPLE Nº. (NMBR)		Cu	Pb	Zn					COMMENTS
41	7810579		23	14	385					
2	580		39	37	1150					
3	581		75	72	980					
4	582		66	71	3300					
5	583		25	33	1330					
6	584		160	11	870					
7	585		28	16	335					
8	586		29	13	640					
9	587		17	11	165					
50	588		19	14	195					
1	589		30	17	870					
2	590		50	26	840					
3	STD 2		80	365	250					
4	591		17	22	455					
5	592		17	13	270					
6	593		26	8	530					
7	594		35	10	600					
8	595		43	14	285					
9	596		37	10	240					
60	597		40	10	245					
1	598		23	11	260					
2	599		17	9	200					
3	BLANK		N/A	N/A	N/A					
4	740		93	30	155					
5	741		46	18	135					
6	742		49	15	165					
7	743		25	18	82					
8	744		50	12	180					
9	745		41	14	210					
70	746		48	15	315					
1	747		36	16	425					
2	748		47	14	350					
3	749		24	11	305					
4	750		76	23	680					
5	751		25	11	105					
6	752		43	13	400					
7	753		43	13	530					
8	754		36	11	470					
9	755		42	13	530					
80	7810756		39	9	335					

REPORT Nº. 78-30

RIO TINTO CANADIAN EXPLORATION LIMITED

LABORATORY REPORT

Cu PARTS (b) PER Zn MILLION

LAB Nº.	SAMPLE Nº. (NMBR)	Cu	Pb	Zn	Zn					COMMENTS
1	7811043	9	180	9	62					
2	044	KB	7	ND	18,500					
3	045	1	37	19	1100					
4	046		15	3	9,500					
5	047		22	17	540					
6	048		51	12	2600					
7	049		24	11	1150					
8	050		18	13	148					
9	051		145	14	6100					
10	052		58	17	172					
1	053		107	11	2300					
~~2~~	~~STD 3~~		~~38~~	~~5~~	~~33~~					
3	054		34	13	920					
4	055		41	16	970					
5	056		16	9	280					
6	057		77	6	3700					
7	058		50	13	1100					
8	059		32	16	610					
9	060		53	21	1950					
20	061		41	9	305					
1	062		34	7	255					
2	~~BLANK~~		~~ND~~	~~ND~~	~~ND~~					
3	063		53	22	325					
4	064		67	24	455					
5	153		19	16	140					
6	154		28	15	168					
7	155		24	17	152					
8	156		23	19	162					
9	157		19	11	34					
30	158		23	23	84					
1	159		22	13	190					
2	160		20	12	405					
3	161		45	32	1100					
4	162		49	35	1000					
5	163		26	21	690					
6	164		28	15	560					
7	165		24	16	730					
8	166		70	17	1700					
9	167		11	2	750					
40	7811168		31	12	485					

REPORT Nº. 78-39

RIO TINTO CANADIAN EXPLORATION LIMITED

LABORATORY REPORT

PARTS PER MILLION

LAB Nº.	SAMPLE Nº. (NMBR)		Cu.	Pb.	Zn.					COMMENTS
121	7811273		29	22	360					
2	274		29	22	370					
3	275		29	22	365					
4	276		29	20	340					
5	277		30	29	1120					
6	278		32	23	570					
7	279		32	24	610					
8	280		38	121	850					
9	281		26	123	260					
130	282		200	275	6000					
1	283		29	29	700					
2	284		33	17	440					
3	285		11	10	590					
4	286		10	ND	6200					
~~5~~	~~STD 3~~		~~32~~	~~6~~	~~55~~					
6	287		19	24	4100					
7	288		63	23	620					
8	289		24	11	970					
9	300		32	16	275					
140	301		27	14	290					
1	302		39	13	610					
2	303		27	13	580					
3	304		55	16	650					
4	305		28	14	330					
~~5~~	~~BLANK~~		~~ND~~	~~ND~~	~~ND~~					
6	306		31	15	640					
7	307		23	13	580					
8	308		27	12	470					
9	309		33	12	390					
150	7811310		37	16	550					
~~1~~	~~7811049~~		~~82~~	~~17~~	~~1160~~					
2	061		39	11	300					
3	165		23	26	710					
4	176		45	19	50					
5	185		53	22	590					
6	235		31	315	7800					
7	253		81	20	250					
8	267		40	18	265					
9	279		35	29	610					
160	7811303		27	15	350					

REPORT Nº. 78-39

RIO TINTO CANADIAN EXPLORATION LIMITED

LABORATORY REPORT

PARTS PER MILLION

LAB Nº.	SAMPLE Nº. (NMBR)		Cu	Pb	Zn					COMMENTS
1	7811 311		24	13	380					
2	312		42	17	730					
3	313		41	16	530					
4	314		49	15	7300					
5	315		34	13	520					
6	316		29	16	710					
7	317		30	18	860					
8	318		42	17	1150					
9	319		28	14	680					
10	320		29	15	320					
1	321		15	8	128					
~~2~~	~~STD 1~~		~~14~~	~~26~~	~~900~~					
3	322		15	5	250					
4	323		17	11	205					
5	324		23	12	560					
6	325		34	8	480					
7	326		43	13	1140					
8	327		32	13	340					
9	328		32	13	295					
20	329		23	13	310					
1	330		24	13	365					
~~2~~	~~BLANK~~		~~ND~~	~~ND~~	~~ND~~					
3	331		28	8	320					
4	332		26	14	275					
5	333		22	11	335					
6	334		28	13	315					
7	335		27	ND	128					
8	336		29	13	290					
9	337		31	14	340					
30	338		22	12	275					
1	339		23	12	375					
2	340		20	10	275					
3	341		23	11	360					
4	342		22	11	300					
5	343		19	9	172					
6	344		16	8	170					
7	345		16	7	170					
8	346		14	7	155					
9	347		12	5	116					
40	7811 348		13	5	96					

REPORT Nº. 78-40

RIO TINTO CANADIAN EXPLORATION LIMITED

LABORATORY REPORT

PARTS PER MILLION

LAB Nº.	SAMPLE Nº. (NMBR)		Co	Pb	Zn					COMMENTS
1	7811065		7	ND	1400c					H. F.
2	066		7	ND	330c					H. F.
3	067		37	11	117c					
4	068		14	8	200c					
5	069		16	4	540					
6	070		8	ND	12 400					H. F.
7	071		12	3	2300					
8	072		30	24	88					
9	073		42	20	1600					
10	074		102	11	380					
1	075		38	15	570					
~~2~~	~~STD 1~~		~~15~~	~~22~~	~~955~~					
3	076		47	17	6100					
4	077		46	23	1150					
5	078		12	1600	23 000					
6	079		72	17	930					
7	080		43	13	375					
8	081		64	13	900					
9	082		48	16	400					
20	083		48	15	850					
1	084		52	71	2700					
~~2~~	~~BLANK~~		~~ND~~	~~ND~~	~~ND~~					
3	085		53	12	610					
4	086		13	ND	295					H. F.
5	087		120	24	530					
6	088		41	25	560					
7	089		102	39	1400					
8	090		52	18	640					
9	091		43	19	405					
30	092		50	23	680					
1	093		37	23	680					
2	094		53	20	1100					
3	095		38	390	1180					
4	096		59	32	300					
5	097		54	17	370					
6	098		40	13	780					
7	099		55	14	730					
8	384		7656	120	850					
9	385		78	30	1270					
40	7811386		78	43	1170					

REPORT Nº. 78-46

RIO TINTO CANADIAN EXPLORATION LIMITED

LABORATORY REPORT

PARTS PER MILLION

LAB Nº.	SAMPLE Nº. (NMBR)		Cu	Pb	Zn					COMMENTS
41	7811 387		71	54	1950					
2	388		72	60	2400					
3	389		60	51	2100					
4	390		59	51	2100					
5	391		57	47	2100					
6	392		50	52	2500					
7	393		63	58	2600					
8	394		66	49	2800					
9	395		61	98	3300					
50	396		54	32	950					
1	397		48	70	2500					
2	398		44	29	1000					
~~3~~	~~STD 2~~		~~32~~	~~375~~	~~275~~					
4	399		53	26	600					
5	400		43	27	650					
6	401		52	21	1600					
7	402		56	39	780					
8	403		50	25	820					
9	404		50	68	2800					
60	405		44	42	1820					
1	406		48	45	2000					
2	407		48	39	2200					
~~3~~	~~BLANK~~		~~10~~	~~10~~	~~N.D~~					
4	408X		45	36	2400					
5	408Y		20	38	460					
6	409		24	30	585					
7	410		26	22	435					
8	411		34	37	940					
9	412		34	21	1000					
70	413		34	20	941					
1	414		53	25	600					
2	415		28	20	580					
3	416		31	18	770					
4	417		68	16	240					
5	418		55	20	800					
6	420		30	9	380					
7	421		31	9	~~450~~	450				
8	422		29	9	490					
9	423		137	11	2200					
80	7811 424		31	10	310					

REPORT Nº. 78-46

RIO TINTO CANADIAN EXPLORATION LIMITED

LABORATORY REPORT

PARTS PER MILLION

LAB Nº.	SAMPLE Nº. (NMBR)		Cu	Pb	Zn					COMMENTS
1	7911614		23	15	360					
2	615		29	23	480					
3	616		34	18	305					
4	747		13	2	102					
5	748		17	10	130					
6	749		49	15	320					
7	750		36	18	220					
8	751		14	9	118					
9	752		20	10	225					
10	753		31	3	112					
1	754 ~~754~~		16	9	108					
~~2~~	~~STD Z~~		~~33~~	~~365~~	~~360~~					
3	755		16	11	195					
4	756		14	9	124					
5	757		13	8	108					
6	758		31	9	600					
7	759		14	9	124					
8	760		59	104	3900					
9	761		55	75	7300					
20	762		69	73	3400					
1	763		44	22	810					
~~2~~	~~BLANK~~		~~ND~~	ND	ND					
3	764		27	35	1250					
4	765		128	26	1450					
5	766		79	18	1700					
6	767		48	21	560					
7	768		56	33	4500					
8	769		69	33	3700					
9	770		26	9	400					
30	801		16	11	135					
1	802		23	9	235					
2	803		16	8	150					
3	804		15	7	~~225~~	128				
4	805		28	13	~~290~~	225				
5	806		35	17	~~452~~	390				
6	807		14	8	~~198~~	132				
7	808		14	8	~~155~~	116				
8	809		15	8	~~215~~	155				
9	810		45	21	~~310~~	315				
40	7911811		35	15	~~45~~	20				

REPORT Nº. 79-55

RIO TINTO CANADIAN EXPLORATION LIMITED

LABORATORY REPORT

PARTS PER MILLION

LAB Nº.	SAMPLE Nº. (NMBR)		Cu	Pb	Zn					COMMENTS
1	7811 617	35	~~47~~	116	770					
2	618		168	295	6600					
3	619		80	22	1950					
4	620		34	18	640					
5	621		31	16	280					
6	622		36	15	280					
7	623		28	15	640					
8	624		36	14	980					
9	625		35	13	1060					
10	626		18	12	125					
1	628		22	10	115					
~~2~~	~~STD I~~		~~15~~	~~28~~	~~720~~					
3	629		22	11	146					
4	630		23	11	190					
5	631		63	16	760					
6	632		33	15	295					
7	633		32	13	550					
8	634		27	16	310					
9	635		29	39	1030					
20	636		56	98	2000					
1	637		45	24	770					
~~2~~	~~BLANK~~		~~<1~~	~~<1~~	~~<10~~					
3	638		29	19	940					
4	639		26	16	280					
5	640		43	13	345					
6	641		35	16	480					
7	642		24	29	350					
8	643		135	35	1900					
9	644		54	16	830					
30	645		58	20	840					
1	646		51	20	360					
2	647		32	250	1170					
3	648		21	17	1700					
4	649		29	175	560					
5	650		5885	41	900					
6	651		64	41	1700					
7	676		33	15	265					
8	677		33	14	290					
9	678		33	23	255					
40	7811679		36	28	700					

REPORT Nº. 78-65

RIO TINTO CANADIAN EXPLORATION LIMITED

LABORATORY REPORT

PARTS PER MILLION

LAB Nº.	SAMPLE Nº. (NMBR)		Cu	Pb	Zn					COMMENTS
41	7811 627		22	12	115					
2	680		23	21	265					
3	681		37	5	195					
4	682		37	12	470					
5	683		16	12	230					
6	684		25	6	98					
7	685		34	11	148					
8	686		23	10	190					
9	687		54	24	570					
50	688		39	27	600					
1	689		17	7	255					
2	690		38	24	395					
~~3~~	~~510 2~~		~~35~~	~~37~~	~~270~~					
4	691		74	13	320					
5	692		28	19	185					
6	693		53	70	780					
7	694		26	14	375					
8	695		30	17	320					
9	696		30	16	380					
60	697		41	15	880					
1	698		33	16	540					
2	699		49	12	900					
~~3~~	~~BLANK~~		~~NIL~~	~~NIL~~	~~NIL~~					
4	770		19	53	325					
5	771		34	41	3000					
6	772		77	42	5100					
7	773		44	33	3800					
8	774		37	30	2900					
9	775		55	25	1900					
70	776		9	11	46					
1	777		6	8	68					
2	778		6	10	48					
3	779		3	11	64					
4	780		19	30	380					
5	781		30	18	610					
6	782		30	18	620					
7	783		28	12	680					
8	784		27	14	650					
9	785		35	14	1000					
80	7811 786		38	15	630					

REPORT Nº. 78-65

RIO TINTO CANADIAN EXPLORATION LIMITED

LABORATORY REPORT

PARTS PER MILLION

LAB Nº.	SAMPLE Nº. (NMBR)		Cu	Pb	Zn					COMMENTS
81	7811787		36	14	265					
2	788		31	17	280					
3	789		34	14	1500					
4	790		34	15	650					
5	791		50	16	870					
6	792		46	13	1080					
7	793		33	14	900					
8	794		35	13	750					
9	795		18	17	98					
90	796		35	13	4000					
1	797		42	14	520					
2	798		31	13	2400					
3	799		28	10	2600					
4	~~STD 3~~		~~38~~	~~5~~	~~56~~					
5	900		32	14	2000					
6	901		34	14	1900					
7	902		37	16	2000					
8	903		29	14	750					
9	904		19	11	160					
100	905		23	16	820					
1	906		29	16	490					
2	907		34	11	4180					
3	908		26	3	560					
4	~~BLANK~~		~~ND~~	~~ND~~	~~ND~~					
5	909		34	16	455					
6	910		33	24	660					
7	911		51	19	650					
8	912		72	24	870					
9	913		147	15	790					
110	914		152	17	670					
1	915		47	18	2000					
2	916		45	16	2100					
3	917		44	17	1450					
4	918		39	15	2100					
5	919		37	16	1250					
6	920		16	15	205					
7	921		460	ND	5300					N.R.
8	922		5	ND	6600					N.R.
9	923		30	7	6800					
120	7811924		4	ND	640					N.R.

REPORT Nº. 7865

RIO TINTO CANADIAN EXPLORATION LIMITED

LABORATORY REPORT

PARTS PER MILLION

LAB Nº.	SAMPLE Nº. (NMBR)		Cu	Pb	Zn					COMMENTS
121	7811 925		5	ND	530					N. S.
2	926		4	ND	11,000					N. S.
3	927		29	12	4000					
4	928		24	17	240					
5	929		20	18	200					
6	930		10	16	110					
7	931		60	9	5500					
8	932		350	2	3700					
9	933		52	14	2900					
130	934		19	21	190					
1	935		46	19	320					
2	936		44	17	1180					
3	937		38	18	830					
4	938		49	16	1250					
~~5~~	~~STD 1~~		~~15~~	~~98~~	~~6400~~					
6	939		43	17	1200					
7	940		27	11	680					
8	941		35	15	570					
9	942		30	14	670					
140	943		31	13	900					
1	944		38	33	6200					
2	945		35	19	2850					
3	946		40	20	4300					
4	947		22	15	1165					
~~5~~	~~BLANK~~		~~ND~~	~~ND~~	~~ND~~					
6	948		29	12	700					
7	949		27	16	670					
8	950		40	16	4250					
9	951		29	13	5800					
150	7811 952		25	15	440					
~~1~~	~~7811 625~~		~~35~~	~~15~~	~~1040~~					
2	637		46	23	~~[illegible]~~	770				
3	648		20	17	1700					
4	685		33	12	1145					
5	720		19	57	310					
6	784		27	14	650					
7	799		28	16	2600					
8	921		455	ND	3300					N. S.
9	927		29	10	4200					
160	7811948		28	12	650					

REPORT Nº. 7865

RIO TINTO CANADIAN EXPLORATION LIMITED

LABORATORY REPORT

PARTS PER MILLION

LAB Nº	SAMPLE Nº. (NMBR)		Cu	Pb	Zn					COMMENTS
1	7811 953		31	13	490					
2	954		24	14	380					
3	955		27	13	690					
4	956		36	14	1250					
5	957		26	12	730					
6	958		25	13	640					
7	959 ~~STD~~		25	13	820					
8	960		13	8	7300					
9	961		33	16	860					
10	962		8	ND	34000					
1	7811 963		24	14	760					
~~2~~	~~STD 2~~		~~31~~	~~390~~	~~295~~					
3	7812 000		31	21	165					
4	7822 001		31	22	215					
5	002		33	23	325					
6	003		44	32	830					
7	004		39	35	395					
8	005		35	23	440					
9	006		25	7	7300					
20	007		37	22	440					
1	008		33	20	900					
~~2~~	~~BLANK~~		~~ND~~	~~ND~~	~~ND~~					
3	009		19	5	7200					
4	010		24	19	680					
5	011		35	18	920					
6	012		41	18	1750					
7	013		36	21	900					
8	014		23	17	240					
9	015		31	19	730					
30	016		26	16	530					
1	017		34	22	830					
2	018		31	20	820					
3	019		21	17	580					
4	020		32	21	820					
5	021		28	17	480					
6	022		24	21	550					
7	023		37	27	410					
8	024		26	23	650					
9	025		27	27	650					
40	7822 026		26	25	650					

REPORT Nº. 78-66

RIO TINTO CANADIAN EXPLORATION LIMITED

LABORATORY REPORT

PARTS PER MILLION

LAB Nº.	SAMPLE Nº. (NMBR)		Cu	Pb	Zn					COMMENTS
121	7822 104		34	12	156					
2	105		37	12	158					
3	106		33	15	325					
4	107		27	12	245					
5	108		38	22	660					
6	109		33	10	270					
7	110		4	ND	690					
8	111		33	14	315					
9	112		29	12	325					
130	113		32	14	315					
1	114		31	13	275					
2	115		43	15	310					
3	116		39	.83	1050	✓				
4	117		24	20	185					
~~5~~	~~STD 2~~		~~31~~	~~.30~~	~~300~~					
6	118		17	22	118					
7	119		34	.52	1350	✓				
8	120		15	14	165					
9	121		15	15	215					
140	122		20	28	570					
1	300		33	.70	1350	✓				
2	301		23	35	400					
3	302		36	30	285					
4	303		23	24	325					
~~5~~	~~BLANK~~		~~ND~~	~~ND~~	~~ND~~					
6	304		30	23	315					
7	305		41	.57	920					
8	306		28	33	440					
9	307		24	32	340					
150	7822308		38	22	440					
~~1~~	~~7822 001~~		~~32~~	~~22~~	~~205~~					
2	011		34	16	910					
3	023		37	25	400					
4	040		31	28	480					
5	056		38	14	1400					
6	071		31	16	870					
7	081		35	1.08	2800					
8	095		48	11	225					
9	112		28	12	325					
160	7822303		23	25	315					

REPORT Nº. 78-66

APPENDIX II

COST STATEMENT

COST STATEMENT

B.C. SIKANNI AREA PROJECTS

GEOLOGICAL, GEOCHEMICAL, & PROSPECTING

9 MAY THROUGH 31 OCTOBER 1978

GENERAL COSTS

FOOD & ACCOMMODATION	
9 Persons, 9 May-18 Sep, 765 Man Days @ $16.67/Man Day	$12,751.00
RIOCANEX EQUIPMENT	
765 Man Days @ $3/Day	2,295.00
FIXED WING, DHC II,	
10 May - 16 Sep @ $1.75/Mile	24,968.00
HELICOPTERS, 206B	
9 May - 24 Sep @ $315/Hour	94,857.00
SUPPLIES	
765 Man Days @ $5.45/Man Day	4,173.00
FUEL, CAMP & HELICOPTERS	10,737.00
REPAIRS TO RIOCANEX EQUIPMENT	209.00
EXPEDITING SERVICES	
9 May - 16 Sep, 130 Days @ $13.88/Day	1,804.00
REPORT PREPARATION	1,235.00
GENERAL COSTS TOTAL	$153,029.00

Cost Statement Cont'd

PROSPECTING

GENERAL COSTS		
@ 32/765		$ 6,401.00
SALARIES & WAGES		
9 Persons 32 Man Days @ $31.65/Man Day		1,012.80
BENEFITS		
@ 25% of Above		253.20
ASSAYS		
Riocanex Lab, 1 Rock Cu/Pb/Zn @ $4.70	4.70	
Bondar-Clegg, 32 element Scan XRF	25.00	
13 Rocks, Ag/Cu/Pb/Zn @ $20.50	266.50	
1 Rock, BA @ $9.50	9.50	
1 Rock, Pb/Zn @ $11.00	11.00	
1 Rock, Au @ $8.50	8.50	325.00
PROSPECTING TOTAL		$7,992.20

Cost Statement Cont'd

GEOCHEMICAL

GENERAL COSTS		
@ 561/765		$112,221.36
SALARIES & WAGES		
9 Persons, 561 Man Days @ $31.65/Man Day		17,755.65
BENEFITS		
@ 25% of Above		4,438.91
GEOCHEMICAL ANALYSIS		
Riocanex Lab, 3003 Soils, Cu/Pb/Zn @ $3.45	$10,360.35	
Chemex Lab, 310 Soils, BA @ $3.00	930.00	
Geochemical Supplies	822.00	
Shipment of Samples Via C.P. Air	314.06	12,426.41
GEOCHEMICAL TOTAL		$146,842.23

Cost Statement Cont'd

GEOLOGICAL

GENERAL COSTS		
@ 64/765	$12,802.42	
SALARIES & WAGES		
9 Persons, 64 Man Days @ $31.65/Man Day	2,025.60	
BENEFITS		
@ 25% of Above	506.40	
GEOLOGICAL TOTAL		$15,334.42

STAKING

GENERAL COSTS		
@ 108/765	$21,604.08	
SALARIES & WAGES		
9 Persons,108 Man Days @ $31.65	3,418.20	
BENEFITS		
@ 25% of Above	854.55	
STAKING TOTAL		$25,876.83
GRAND TOTAL		$196,045.68

COSTS ATTRIBUTABLE TO DOG CLAIMS

Prospecting	$7,992.20 x $\frac{56}{327}$ (units in DOG claims) / (total units)	=	$ 1,368.69
Geological	$15,334.42 x $\frac{56}{327}$	=	$ 2,626.08

Geochemical

Total cost of geochemical programme	$146,842.23	
Number of samples collected	3313	
Cost per sample $146,842.23/3313	$44.32	
Number of samples in vicinity of claims:	167	
Cost attributable to claims: 167 x $44.32		$ 7,401.44

TOTAL COST ATTRIBUTABLE TO CLAIMS $11,396.21

APPENDIX III

CERTIFICATE

CERTIFICATE

1. Geoffrey David Hodgson, with business address in Vancouver, British Columbia, and residential address in North Vancouver, British Columbia, do hereby declare

1. I am a geologist employed by Rio Tinto Canadian Exploration Limited.

2. I graduated from Exeter University, U.K., in 1972 with a BSc (Hons.) degree in geology.

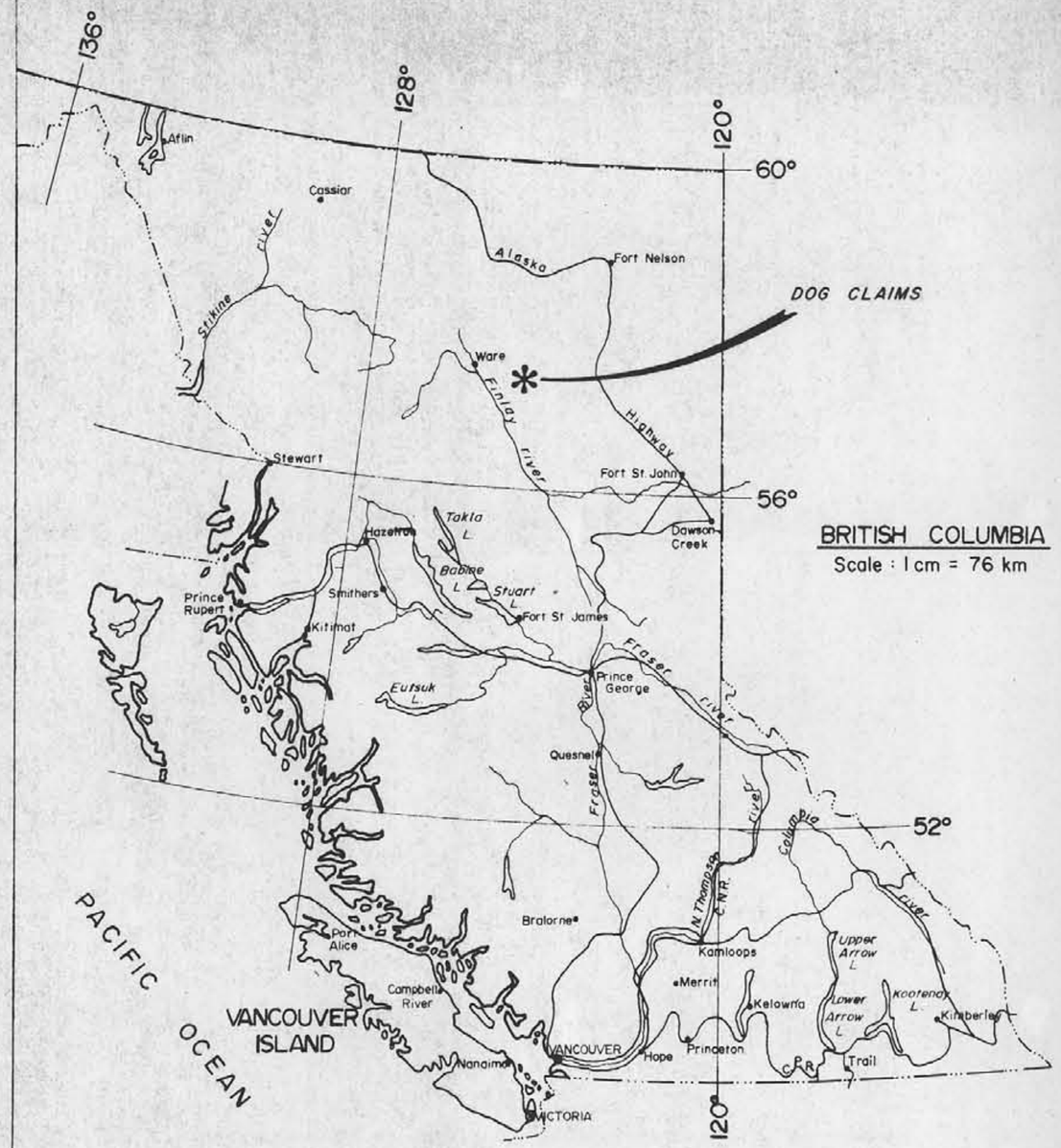
3. I graduated from the University of Alberta in 1976 with an MSc degree in geology.

4. I am a Professional Geologist with the Association of Professional Engineers, Geologists and Geophysicists of Alberta.

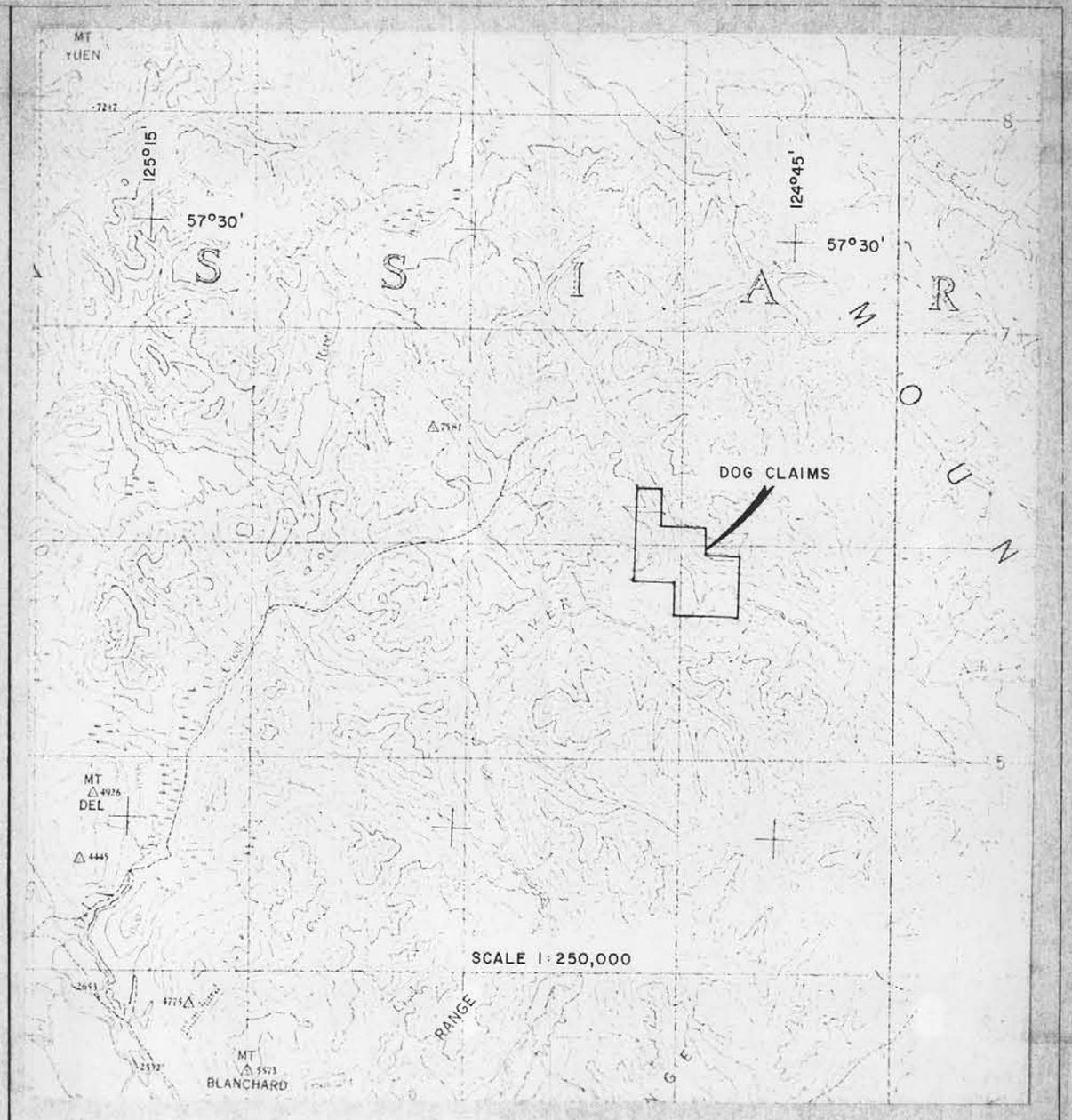
5. From 1970 to 1979 I have been employed on both a temporary and full-time basis by the Geological Survey of Greenland, Research Council of Alberta, University of Alberta, Cominco Ltd., and Riocanex Ltd.

Respectively submitted,

G. D. Hodgson



BRITISH COLUMBIA
Scale : 1 cm = 76 km



N.T.S. 94-F/7

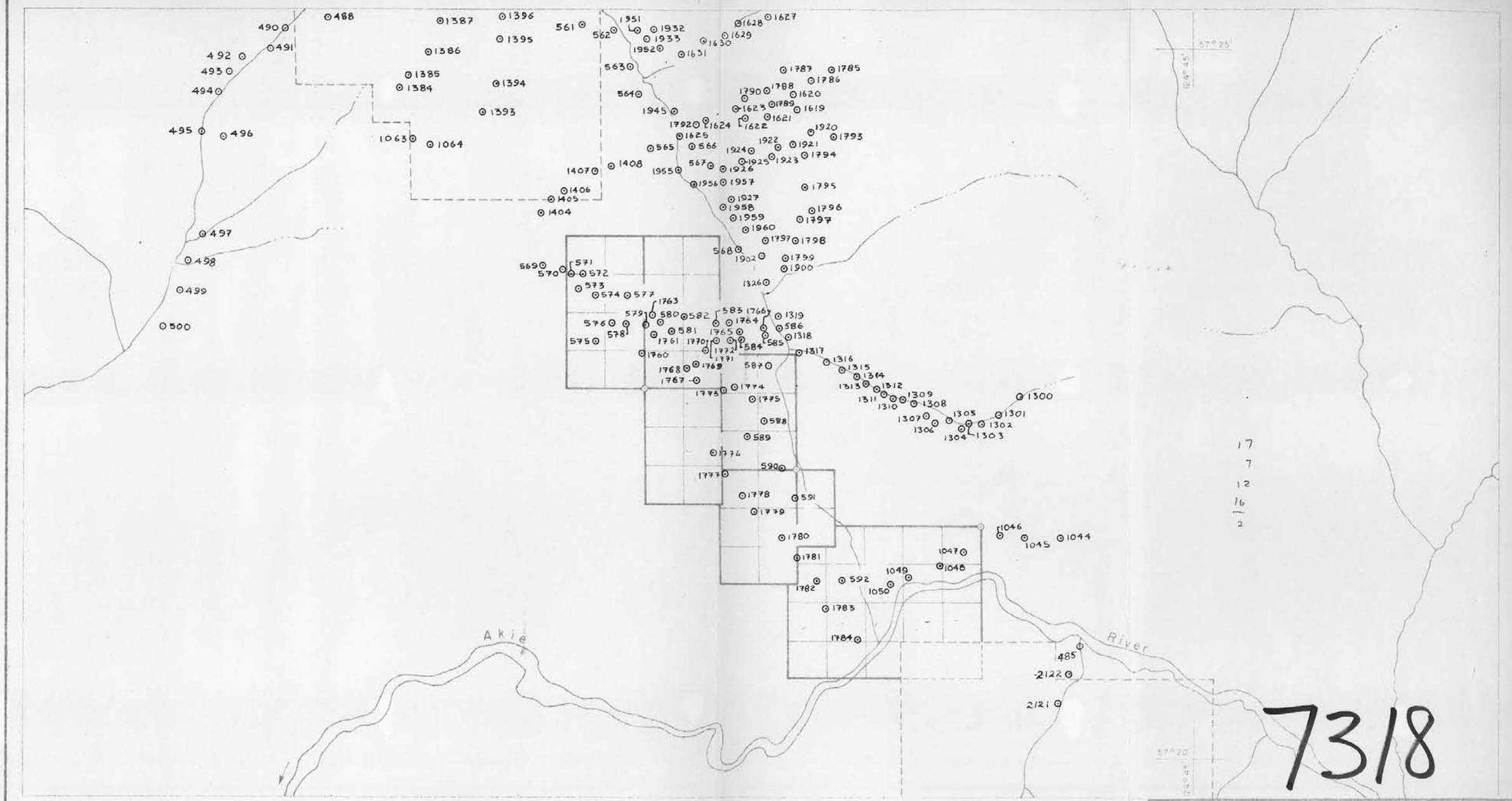
7318

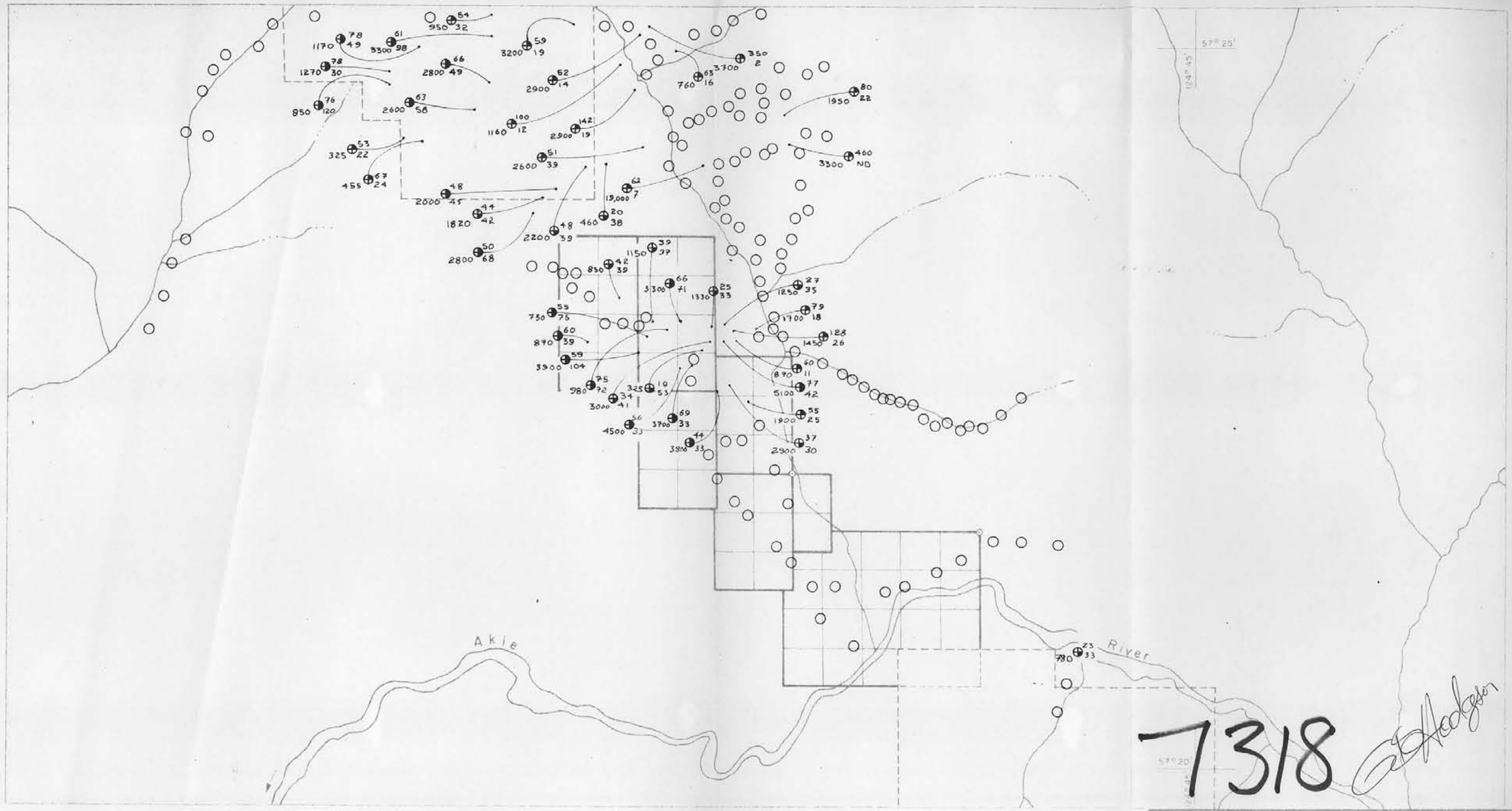
RIO TINTO CANADIAN EXPLORATION LTD.

DOG CLAIMS

LOCATION MAP

APRIL 79 | G.H./y.m. | DWG. L-6563


Akie
River
N.T.S 94 F 7W
SCALE 1:50,000
1000 500 0 1000 2000 3000 4000 Metres
N
LEGEND
⊙1782 Silt sample location & number
All three digit numbers prefixed by 7810
All four digit numbers prefixed by 781
RIO TINTO CANADIAN EXPLORATION LTD.
DOG CLAIMS
SILT SAMPLE LOCATIONS
s. g.
MAR. 1979
DWG. GC-6556
7318



7318

LEGEND

N

○ Silt sample location

ppm Zn ⊕ ppm Cu / ppm Pb

◔ Anomalous

N.T.S 94 F 7W

SCALE 1:50,000

1000 500 0 1000 2000 3000 4000 Metres

RIO TINTO CANADIAN EXPLORATION LTD.

DOG CLAIMS

PPM Cu, Pb, Zn

s. g.	MAR. 1979	DWG. GC-6559