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Cangold Limited
Rimfire Minerals Corporation

2003 GEOLOGICAL, GEOCHEMICAL AND DIAMOND DRILLING REPORT ON THE THORN PROPERTY

Volume II – Figures

Located in the Sutlahine River Area
Atlin Mining Division
NTS 104K/10W
58° 32' North Latitude
132° 47' West Longitude

-prepared for-
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Vancouver, British Columbia, Canada
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&
RIMFIRE MINERALS CORPORATION
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GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

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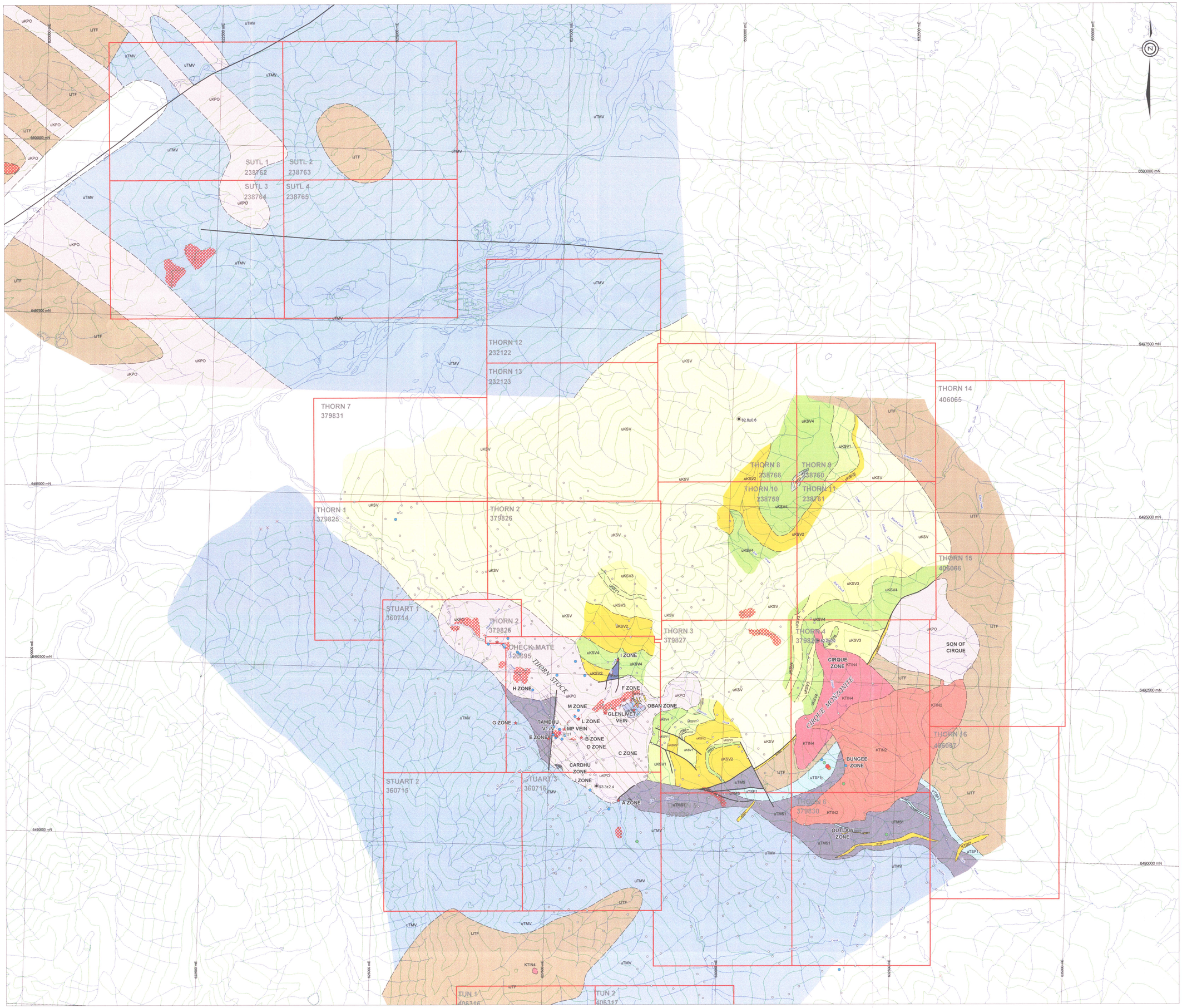
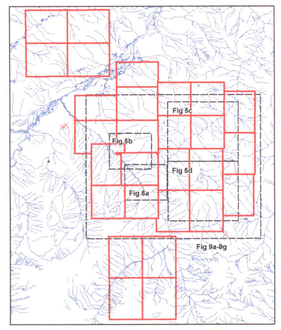
February, 2004

VOL 2 OF 2



KEY MAP (1:150,000)



LITHOLOGICAL LEGEND

LATE CRETACEOUS OR TERTIARY

KTIN INTRUSIVE DYKES, SILLS AND STOCKS

- KTIN1 — Rhyolite dykes and sills: aphanitic or feldspar+quartz-phyric
- KTIN2 — Biotite-hornblende granodiorite: fine to coarse-grained, local miarolitic cavities
- KTIN3 — Basalt/andesite dykes: fine-grained, dark green to brown, weakly magnetic, aphyric or feldspar ± phyric, calcite amygdules common
- KTIN4 — Monzonite and diorite
- KTIN5 — Hornblende lamprophyre dykes

LATE CRETACEOUS

uKSV SUBAERIAL VOLCANIC ROCK

- uKSV1 — Dacite/andesite tuff, lapilli tuff and block tuff: Maroon to grey-brown, matrix-supported
- uKSV2 — Rhyolitic tuff and agglomerate
- uKSV3 — Rhyolite
- uKSV4 — Andesite
- uKSV5 — Basalt
- uKSV6 — Ash tuff

uKBX BRECCIA PIPE

- uKBX1 — Magmatic-hydrothermal breccia: fragments dominantly of uKPO but with fewer fragments of other porphyritic lithologies, rhyolite dykes, massive pyrite, pale blue chalcedony, foliated Stuhini(?) andesite and rebrecciated breccia matrix , typically fragment-supported, fragments angular to rounded up to >1 m diameter, weakly chlorite and sericite-altered
- uKBX2 — Equivalent to uKBX1 but moderately to strongly sericite-altered with 1-3% disseminated pyrite; some alteration pre-dates brecciation
- uKBX3 — Mottled, matrix-rich breccia: 5-20%, angular to sub-rounded, pebble-sized fragments in a fine-grained groundmass locally characterized by abundant feldspar ± biotite phenocrysts; 1-2% pyrite, weakly to strongly sericite-altered
- uKBX4 — Crackle breccia: uKPO with abundant thin fractures, locally grades into uKBX

uKPO GRANODIORITE PORPHYRY

- uKPO1 — Coarse-grained feldspar-biotite porphyry: 15-40% anhedral 1-5mm feldspar, 15-30% euhedral equant 3-6mm glassy quartz and 5-15% euhedral equant 3-6mm biotite phenocrysts
- uKPO2 — Fine-grained feldspar-biotite porphyry: 30% anhedral 0.5mm feldspar, 0-5% subhedral 2-4mm quartz and 5% euhedral equant 4mm biotite phenocrysts
- uKPO3 — Coarse-grained feldspar-biotite porphyry; strongly fractured and faulted with moderate to strong sericite ±clay alteration

LOWER TO MIDDLE JURASSIC

Laberge Group - Takwahoni Formation

uTF CLASTIC SEDIMENTARY ROCK

UPPER TRIASSIC

Sinwa Formation

uTSF LIMESTONE AND LESSER CLASTIC ROCK

- uTSF1 — Limestone
- uTSF2 — Argillite

Stuhini Group

uTMV MAFIC VOLCANIC ROCK

- uTMV1 — Pillow basalt
- uTMV2 — Andesitic lapilli tuff
- uTMV3 — Massive andesite: dark green, aphyric, aphanitic to fine-grained
- uTMV4 — Feldspar-augite porphyry: dark green, fine to medium-grained, sparse <1mm feldspar and augite phenocrysts

uTMS MARINE SEDIMENTARY ROCK

- uTMS1 — Interbedded siltstone and wacke: well-bedded
- uTMS2 — Argillite
- uTMS3 — Limestone

Geology adapted in part from Adamson (1985b), Walton (1984), Evans (1999), Awmack (2000, 2002) Geochronolgy from Mihalynuk et al. (2003) and A. Simmons (pres. comm)

SYMBOLS

- Lithological contact, inferred
- Gossan
- Fault
- 82.2±0.2 — U/Pb geochronolgy sample location with age (Ma) and error
- 91±1 — Ar/Ar geochronology sample location with age (Ma) and error

EM conductors (mhos)

- >100
- 50 to 100
- 10 to 50
- 1 to 10
- 0

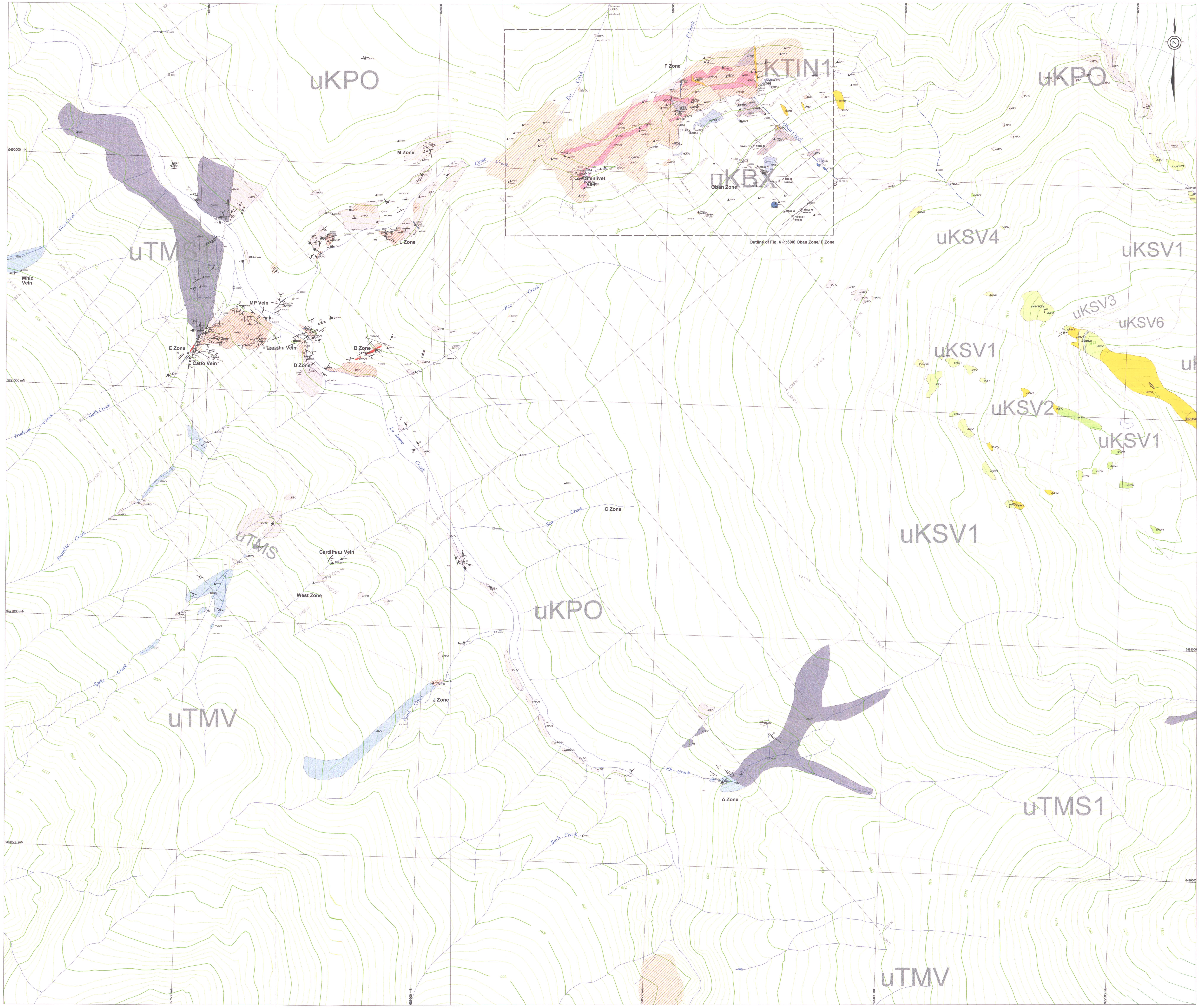
0 200 400 600 1600 metres

RIMFIRE MINERALS CORPORATION

THORN PROPERTY

INTERPRETED GEOLOGY

EQUITY	Date: FEB 2004	Scale: 1:20,000	Figure: 4
	U.T.M. Zone: UTM8 - NAD83	Mining District: ATLIN	
	N.T.S.: 104K/10	Date/Province: BC	



SAMPLE	Au_ppb	Ag_ppm	As_ppm	Cu_ppm	Pb_ppm	Sb_ppm	Zn_ppm
3389	1,764	913.5	47,310	92,721	763	13,871	11,234
3390	2,014	255.8	5,227	11,518	1,294	4,950	1,933
3391	3,982	215.8	18,795	43,316	37	5,367	1,936
3392	19	0.9	316	841	72	4	221
3393	4,582	74.9	165	874	508	65	345
3394	65	1.3	235	370	175	-3	1,017
3395	123	15.3	17,893	3	205	88	624
3396	199	31.3	5,642	45	1,039	68	7,724
3397	76	15	4,055	1	719	100	1,833
3398	32.5	14.45	951.5	5	1,301.5	39	736
3399	341	40.6	795	135	1,878	51	1,084
3400	711	204.6	1,357	19	8,998	74	6
51201	15,650	1,033.3	33,948	51,947	472	14,508	1,545
124001	3,480	5,434.4	194	917	19,728	12,354	35,070
129057	750	224	33,100	50,000	765	8,230	2,490
129059	874	285	42,500	50,000	1,030	9,570	2,740
129060	13,840	2,900	50,000	50,000	1,995	10,000	1,945
129061	30	8	520	1,260	50	130	55
129062	5,000	564	50,000	50,000	1,325	10,000	2,360
129063	4,100	391	42,600	50,000	435	10,000	145
206601	7,450	712.9	8,645	13,496	2,546	7,449	2,836
206602	6,360	294.7	1,224	2,242	5,722	3,159	36,926
206603	1,460	85.8	497	1,611	405	923	673
206604	114.3	4.6	253	41	305	24	684
206605	147	4.9	118	112	67	52	44
206606	178.5	25.7	247	761	715	325	497
206607	19,480	1,634.7	67,030	99,999	559	26,146	3,764
206608	7,930	1,397.1	32,000	62,312	716	25,507	492
206609	145.1	5.8	256	319	130	91	235
206610	415.7	141.1	274	427	42,113	362	99,999
206611	2,290	414.9	5,630	10,376	567	5,242	489
206612	214	24.3	183	596	1,926	280	1,955
206613	1,790	18.7	72	109	213	57	2,433
206614	3,260	74.1	124	33	246	256	44
206615	3,120	93.1	193	81	143	393	60
206616	1,410	41.5	515	1,065	87	367	302
206617	8,130	286	638	641	239	1,213	35
206618	6,780	431.15	12,865	24,796	262	4,747	959
206622	37	-0.3	14	13	7	4	4
206623	18.2	0.6	126	60	71	3	36
206624	101.1	1.4	26	211	20	12	3
206625	704.9	3.3	55	428	125	12	15
206626	10.8	-0.3	6	26	15	-3	29
206628	133.7	3	1,738	183	398	113	1,391
206630	17	0.5	29	55	7	11	31
206631	75.4	8.1	183	251	4,249	4	5,657
206632	2,150	59.4	607	3,082	169	180	93
206633	1,460	113.3	3,299	9,713	5,223	1,231	9,347
206634	3,220	380.1	3,482	7,893	371	6,288	863
206636	2,240	207.6	3,963	28,767	4,411	22	11,695
206637	5,040	311.2	8,584	23,817	1,017	1,703	3,030
206638	132.2	696.2	860	16,482	18,178	60	2,946
206639	71.8	5.3	37,000	369	97	17	93
206640	22.3	2.7	133	1,431	95	12	165
206643	504.6	8.9	2,519	749	142	33	558
206644	1,238.3	23.7	3,695	1,998	319	17	216
206648	296.7	3.2	155	270	19	22	847
206649	1,180	431.4	4,580	12,234	2,952	4,131	1,760
206651	2,790	910.6	789	2,226	7,491	2,282	16,572
206652	1,430	396.4	5,510	16,834	2,667	6,584	1,442
206653	1,210	78.3	1,000	874	8,608	831	38,441
206654	1,790	102.2	383	1,642	2,179	706	7,121
206655	2,810	113	403.5	1,101.5	955	1,051.5	682.5
206656	4,560	388.7	739	3,115	1,801	1,699	1,147
206657	1,830	309.7	4,040	8,539	2,619	4,786	2,451
206658	1,480	328.4	10,516	26,479	6,361	21,535	4,066
206659	654.1	18.9	1,830	86	5,802	1,506	3,539
206660	218.6	0.7	3,132	13	58	26	171
206661	450.1	7.4	194	69	222	22	78
206662	1,940	79.8	978	1,314	227	1,145	53
206663	1,420	189.1	1,971	5,946	754	2,216	4,579
206801	23	1.9	98	40	269	10	153
206802	581.4	92.9	4,953	14,480	276	2,418	2,802
206803	59	5.9	256	92	536	30	615
206804	578.9	138.1	3,050	6,848	69	1,824	481
206805	11.9	0.7	113	333	23	8	244
206806	712.5	13.4	118	60	104	29	155
206807	796.7	22	146	277	296	88	171
206808	24,140	1,066.7	34,650.5	88,267	583.5	23,421.5	13,573
206809	83	6.8	566	663	323	147	259
206810	205.8	9.2	211	435	31	143	146
206811	3,423.9	76.4	326	468	139	378	142
206814	22,130	2,413.5	38,103	99,999	162	29,314	3,502
206815	2,730	51.6	289	719	320	300	51
206817	5,310	399.9	7,790	22,995	133	3,729	326
206818	3,310	260	1,510	3,076	115	1,718	27
206819	319.5	6.1	169	313	16	58	19
206820	654.4	20.5	459	1,986	17	365	73
206821	725.8	237.9	3,468	1,134	24,802	98	99,999
206822	360.9	21.9	1,767	5,367	410	248	897
206823	14.7	1	1,238	662	204	20	567
206824	1,240	127.2	8,764	18,514	476	3,692	377
206825	81	11.9	539	164	112	134	92
206826	4,450	306.3	4,933	12,029	1,613	11,896	1,732
206827	850	28.3	279	99	113	532	37
206828	930	99.5	5,451	15,420	335	1,070	1,359
206829	120	166	12,299	37,539	232	1,960	1,371
206830	3,010	6.5	16,568	467	957	47	5,749
206831	830	23.9	1,750	3,624	44	395	239
206832	345.8	12.7	4,065	156	822	22	828
206833	14.05	2.75	80.5	44	843.5	6.5	846.5
206843	854	20.7	370	1,573	310	121	144
206844	1,280	52.8	903	1,392	765	82	514
206845	14	8.7	27	9,854	24	3	14
206846	4	0.5	4	88	11	-3	50
206847	158	4.8	157.5	49	168.5	30	921
206987	22	1.8	280	36	36	19	707
206988	1,370	1,989.9	9,063	579	17,931	14,490	11,225
206989	14	17	1,197	33	4,854	1,084	9,391
206990	1,850	1,903.9	9,788	1,028	17,400	15,858	3,758
206991	888.2	1,259.3	6,584	442	19,122	13,568	22,051
206992	1,510	604.8	9,333	1,178	17,315	16,164	22,960
206993	1,920	3,072.8	3,527	1,002	15,661	16,723	99,999
206994	444	491.9	6,718	116	19,452	7,644	3,695
206995	5	9.7	77	12	599	88	396
206996	42.4	8.3	184	114	2,799	4	3,789
206997	20,200	2,261.1	61,284	99,999	447	18,062	3,068
206998	148.3	33.2	607	960	219	241	126
209601	6,210	137.4	512	4,337	254	3,899	92
209602	13,570	181.2	1,384	6,628	297	5,190	72
209603	25,930	391.3	2,786	14,346	273	9,751	61
209604	58	1.7	31	55	35	20	74
209605	520	166.1	10,241	409	7,700	1,970	8,258
209606	5,320	1,222.6	76,129	1,072	16,835	13,999	53,553
209607	29	15.5	2,866	47	665	77	1,024
209608	57	10.2	7,594	34	420	81	840
209609	1,570	133.3	1,298	1,907	9,284	722	59,508
209610	2,750	388.85	4,973	2,028.5	19,081.5	4,435	10,762
209611	1,350	237.4	1,218	2,543	858	2,278	360
209612	2,010	120	261	253	17,446	120	99,999
209613	2,970	1,297.9	61,234	99,999	1,986	21,010	6,846
209614	1,500	562.5	11,809	31,695	545	8,332	4,395
209615	233	16.1	565	1,092	379	251	251
209616	1,170	1,169.5	99,999	88,704	700	21,580	2,127
209617	1,360	796.8	26,123	67,956	4,312	17,778	5,026
209618	20,390	2,579.5	99,999	72,541	795	21,403	4,287
209619	2,820	306.7	1,488	3,319	1,644	2,922	550
209620	11,740	1,354.9	97,172	99,999	553	19,405	1,195
209621	844.9	168.1	1,151	3,010	3,055	1,489	948
209622	2,060	661.8	4,581	17,869	15,956	6,102	44,751
209623	10,450	305	775	1,655	3,912	804	6,450
209624	1,600	352.7	1,267	4,017	5,337	2,146	2,873
209625	678.5	235.8	5,409	16,268	1,314	4,470	1,584
209626	616.3	6.8	298	157	233	7	97
209627	8,050	510.3	26,156	99,999	375	6,772	8,035
209628	1,590	318.5	24,013	58,459	391	4,983	1,273
209629	367.3	1.8	269	110	12	11	16
209630	23.2	1.4	197	48	539	4	577
209631	10,830	89.8	291	57,878	27	375	732
209632	36.8	2.6	24	713	833	9	13,195
209633	18.5	4.1	526	648	2,672	6	6,727
209634	5.7	0.7	81	45	38	4	2,055
209641	21.5	0.3	9,536	46	17	105	97
275977	5,730	159	2,890	7,900	262	1,895	565
275978	21,500	2,990	10,000	10,000	648	10,000	2,060
275979	1,370	1,480	2,130	10,000	10,000	5,910	10,000
275980	240	99	559	1,515	1,010	599	466
277055	80	3.4	362	10	166	20	44
277056	690	81.8	5,410	132	2,370	245	363
277057	105	10.9	1,555	47	394	25	1,620
277058	12,950	596	4,550	10,000	193	10,000	46
277501	10	0.4	184	158	40	-2	114
277502	20	1.5	238	25	18	5	11
277503	170	8.3	177	406	31	64	55
277504	210	83.7	681	111	309	2,020	20
277505	20	0.5	142	6	27	5	23
277506	20	0.8	230	6	28	7	760
277507	30	0.5	367	22	32	3	120
277508	110	0.3	71	2	33	2	15
277509	10	0.3	191	21	37	3	149
277510	-10	-0.2	35	21	14	3	72
277514	30	1	315	31	352	4	108
277515	10	0.4	3	68	50	-2	468
277536	10	0.2	-2	21	18	2	19
277537	190	5.2	78	189	32	47	8
277538	30	2.4	41	4	45	4	19
277539	7,220	418	1,410	4,960	1,950	1,980	786
277540	10	0.7	142	6	19	4	46
277541	170	2.6	23	23	54	7	36
277542	20	-0.2	92	20	26	4	67
277543	2,130	279	712	3,740	1,960	1,130	319
277544	40	1.9	141	84	558	14	217
277547	-0.01	0.4	42	41	9	29	285
277548	60	0.6	117	12	37	3	3
277555	2,320	90.1	214	995	443	271	4,560

SAMPLE	Au_ppb	Ag_ppm	As_ppm	Cu_ppm	Pb_ppm	Sb_ppm	Zn_ppm
277556	860	25.9	109	338	350	73	4,500
277557	800	698	7,730	10,000	243	10,000	791
277558	20	47	4,030	166	985	55	500
277559	40	5	7,900	42	142	72	873
277560	500	135	980	154	1,575	203	465
277561	20	1.6	306	23	40	8	128
277652	60	3.7	208	78	592	15	4,030
277653	70	2.6	197	26	97	7	29
277654	4,770	218	874	3,600	326	2,230	36
277655	400	10.8	250	297	126	104	19
277656	2,850	1,215	2,090	10,000	10,000	4,170	10,000
277657	6,570	1,320	9,810	10,000	1,545	5,590	2,610
277658	800	128	2,870	7,590	523	2,070	664
277659	530	174	4,840	10,000	549	4,670	2,690
277660	1,670	159	1,885	5,120	2,000	1,585	1,475
277661	1,150	82.4	1,400	3,830	1,860	1,410	10,000
277662	780	79.5	311	473	264	170	3,770
277664	70	7.5	109	207	1,450	27	3,640
277665	150	26.1	340	455	98	407	110
277666	120	4.2	151	14	358	19	238
277667	1,760	1,090	8,630	10,000	7,180	6,900	10,000
277668	270	11.2	102	26	465	30	606
277669	140	8.4	155	42	413	31	588
277670	100	4.7	180	19	411	14	509
277671	470	18.9	235	131	711	47	1,040
277672	220	3.2	165	10	278	5	56
277673	5,130	1.4	10,000	11	22	172	19
277674	890	112	2,250	470	7,490	212	7,320
277675	2,040	48.8	417	125	10,000	104	10,000
277718	150	9.2	10,000	29	824	196	3,330
L Zone	14,360	802.7	23,302	59,626	210	13,229	1,343

LITHOLOGICAL LEGEND

LATE CRETACEOUS OR TERTIARY

KTIN INTRUSIVE DYKES, SILLS AND STOCKS
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- KTIN4 Monzonite and diorite
- KTIN5 Hornblende lamprophyre dykes

LATE CRETACEOUS

uKSV SUBAERIAL VOLCANIC ROCK
- uKSV1 Dacitic/andesitic tuff, lapilli tuff and block tuff: Maroon to grey-brown, matrix-supported
- uKSV2 Rhyolitic tuff and agglomerate
- uKSV3 Rhyolite
- uKSV4 Andesite
- uKSV5 Basalt
- uKSV6 Ash tuff

uKBX BRECCIA PIPE
- uKBX1 Magmatic-hydrothermal breccia: fragments dominantly of uKPO but with fewer fragments of other porphyritic lithologies, rhyolite dykes, massive pyrite, pale blue chalcedony, foliated Stuhini(?) andesite and rebrecciated breccia matrix , typically fragment-supported, fragments angular to rounded up to >1 m diameter, weakly chlorite and sericite-altered
- uKBX2 Equivalent to uKBX1 but moderately to strongly sericite-altered with 1-3% disseminated pyrite; some alteration pre-dates brecciation
- uKBX3 Mottled, matrix-rich breccia: 5-20%, angular to sub-rounded, pebble-sized fragments in a fine-grained groundmass locally characterized by abundant feldspar ±biotite phenocrysts; 1-2% pyrite; weakly to strongly sericite-altered
- uKBX4 Crackle breccia: uKPO with abundant thin fractures, locally grades into uKBX

uKPO GRANODIORITE PORPHYRY
- uKPO1 Coarse-grained feldspar-biotite porphyry: 15-40% anhedral 1-5mm feldspar, 15-30% euhedral equant 3-6mm glassy quartz and 5-15% euhedral equant 3-6mm biotite phenocrysts
- uKPO2 Fine-grained feldspar-biotite porphyry: 30% anhedral 0.5mm feldspar, 0-5% subhedral 2-4mm quartz and 5% euhedral equant 4mm biotite phenocrysts
- uKPO3 Coarse-grained feldspar-biotite porphyry; strongly fractured and faulted with moderate to strong sericite ±clay alteration

LOWER TO MIDDLE JURASSIC

Laberge Group - Takwahoni Formation
- lJTF CLASTIC SEDIMENTARY ROCK

UPPER TRIASSIC

Sinwa Formation
uTSF LIMESTONE AND LESSER CLASTIC ROCK
- uTSF1 Limestone
- uTSF2 Argillite

Stuhini Group
uTMV MAFIC VOLCANIC ROCK
- uTMV1 Pillow basalt
- uTMV2 Andesitic lapilli tuff
- uTMV3 Massive andesite: dark green, aphyric, aphanitic to fine-grained
- uTMV4 Feldspar-augite porphyry: dark green, fine to medium-grained, sparse <1mm feldspar and augite phenocrysts

uTMS MARINE SEDIMENTARY ROCK
- uTMS1 Interbedded siltstone and wacke: well-bedded
- uTMS2 Argillite
- uTMS3 Limestone

SYMBOLS
- Fault lineation
- Magmatic flow foliation
- Dyke (inclined, vertical)
- Jointing (inclined, vertical)
- Bedding (inclined, vertical)
- Foliation (inclined, vertical)
- Fracturing
- Faulting (inclined, vertical)
- Veining (inclined, vertical)
- Outcrop
- Lithological contact (defined, inferred)
- Vein
- Gossan
- Syn mineralization, fault (triangle indicates dip direction)
- Post-mineralization, fault (rectangle indicates dip direction)
- △ ▲ sample — Rock sample (float, outcrop)
- Soil sample (grid, reconnaissance)
- □ sample — Silt sample
- DDH — Drill hole
- Legal corner post (located, approximate)
- Camp location
- Helicopter pad

ALTERATION TYPES

AL alunite	BA barite	CA calcite
CB Fe-carbonate	CL chlorite	CY clay
EP epidote	KF K-spar	MS sericite
QZ quartz veining	SI silica	
m moderate	s strong	tr trace
w weak		

0 50 100 150 250
metres

M2

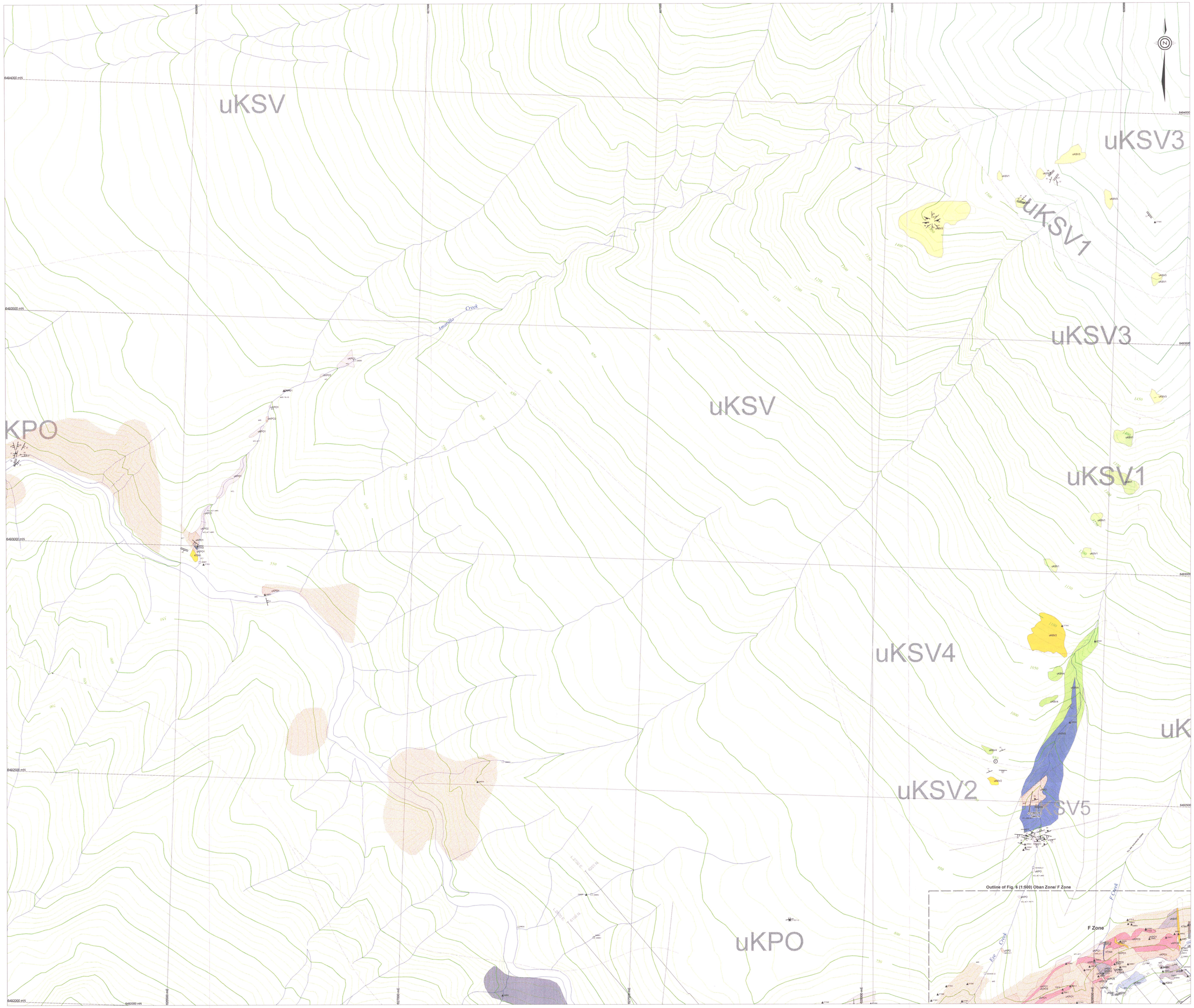
RIMFIRE MINERALS CORPORATION

THORN PROPERTY

LA JAUNE SOUTH AREA GEOLOGY AND SAMPLE LOCATIONS

EQUITY

Date	Scale	Figure
FEB, 2004	1:2500	5a
U.T.M. Zone: UTM8 - NAD83	Mining District: ATLIN	
N.T.S.: 104K/10	State/Province: BC	



ROCK SAMPLE RESULTS

SAMPLE	Au_ppb	Ag_ppm	As_ppm	Cu_ppm	Pb_ppm	Sb_ppm	Zn_ppm
3395	123	15.3	17,893	3	205	88	824
3397	76	15	4,055	1	719	100	1,833
3398	32.5	14.45	951.5	5	1,301.5	39	736
3399	341	40.6	795	135	1,878	51	1,084
3400	711	204.6	1,357	19	8,998	74	6
206626	10.8	-0.3	6	26	15	-3	29
206628	133.7	3	1,738	183	398	113	1,391
206629	142.3	9.7	54	19	48	39	10
206649	1,180	431.4	4,580	12,234	2,952	4,131	1,760
206651	2,790	910.6	789	2,226	7,491	2,282	16,572
206652	1,430	396.4	5,510	16,834	2,867	6,584	1,442
206653	1,210	78.3	1,000	874	8,608	831	38,441
206654	1,790	102.2	383	1,642	2,179	706	7,121
206655	2,810	113	403.5	1,101.5	955	1,051.5	682.5
206656	4,560	388.7	739	3,115	1,801	1,699	1,147
206657	1,830	309.7	4,040	8,539	2,619	4,786	2,451
206658	1,480	328.4	10,516	26,479	6,361	21,535	4,066
206662	1,940	79.8	978	1,314	227	1,145	53
206634	314.5	13.2	210	54	4,655	18	2,040
206635	11.5	0.7	26	16	69	6	212
206637	1,400	51.9	3,930	11,644	89	765	72
206638	4.8	-0.3	8	23	22	-3	35
206639	3.2	-0.3	19	19	22	-3	41
206640	4,170	255.9	4,893	11,502	573	5,492	212
206641	1,790	74.8	422	1,029	501	598	106
206642	9,280	759.9	1,219	2,982	635	1,973	187
206647	156	4.8	197.5	49	166.5	30	921
209605	520	186.1	10,241	409	7,700	1,970	8,258
209606	5,320	1,222.6	76,129	1,072	16,835	13,999	53,553
209607	29	15.5	2,866	47	665	77	1,024
209608	57	10.2	7,594	34	420	81	840
209609	1,570	133.3	1,296	1,907	9,284	722	59,506
209610	2,750	388.85	4,973	2,028.5	19,081.5	4,435	10,762
209611	1,350	237.4	1,218	2,543	858	2,278	360
209613	2,970	1,297.9	61,234	99,999	1,986	21,010	6,846
209614	1,500	562.5	11,809	31,695	545	8,332	4,395
209615	233	18.1	565	1,052	379	251	251
209616	1,170	1,189.5	99,999	88,704	700	21,580	2,127
209617	1,360	796.8	26,123	67,956	4,312	17,778	5,026
209619	2,820	306.7	1,488	3,319	1,644	2,922	550
209623	10,450	305	775	1,655	3,912	804	6,450
209624	1,600	352.7	1,267	4,017	5,337	2,146	2,873
209625	678.5	235.8	5,409	16,268	1,314	4,470	1,584
209641	21.5	0.3	9,536	46	17	105	97
275980	240	99	559	1,515	1,010	599	466
277506	20	0.8	230	6	28	7	760
277508	110	0.3	71	2	33	2	15
277509	10	0.3	191	21	37	3	146
277510	-10	-0.2	35	21	14	3	72
277514	30	1	315	31	352	4	108
277515	10	0.4	3	68	50	-2	468
277542	20	-0.2	92	20	26	4	67
277545	10	1.2	-2	81	10	3	68
277549	10	-0.2	12	4	23	2	34
277556	860	25.9	109	338	350	73	4,500
277557	800	698	7,730	10,000	243	10,000	791
277656	2,850	1,215	2,090	10,000	10,000	4,170	10,000
277657	6,570	1,320	9,810	10,000	1,545	5,590	2,810
277658	800	128	2,870	7,590	523	2,070	664
277659	530	174	4,940	10,000	549	4,670	2,690
277660	1,670	159	1,685	5,120	2,000	1,585	1,475
277661	1,150	82.4	1,400	3,830	1,960	1,410	10,000
277662	780	79.5	311	473	264	170	3,770
277663	620	4.9	463	49	512	29	182
277707	839	269	8,670	10,000	1,405	5,360	1,385
277708	1,710	546	10,000	10,000	1,010	10,000	2,190
277709	210	18.9	419	374	174	259	59
277710	1,560	139	2,960	5,000	500	2,410	155
277711	53	2.8	134	36	232	28	76
277712	2,000	405	10,000	10,000	1,085	10,000	1,215
277713	56	4	303	195	160	102	30
277714	923	373	10,000	10,000	1,870	9,540	2,040

LITHOLOGICAL LEGEND

LATE CRETACEOUS OR TERTIARY

KTIN INTRUSIVE DYKES, SILLS AND STOCKS

- KTIN1 Rhyolite dykes and sills; aphanitic or feldspar+quartz-phyric
- KTIN2 Biotite-hornblende granodiorite: fine to coarse-grained, local miarolitic cavities
- KTIN3 Basalt/andesite dykes: fine-grained, dark green to brown, weakly magnetic, aphyric or feldspar - phyric, calcite amygdules common
- KTIN4 Monzonite and diorite
- KTIN5 Hornblende lamprophyre dykes

LATE CRETACEOUS

uKSV SUBAERIAL VOLCANIC ROCK

- uKSV1 Dacitic/andesitic tuff, lapilli tuff and block tuff: Maroon to grey-brown, matrix-supported
- uKSV2 Rhyolitic tuff and agglomerate
- uKSV3 Rhyolite
- uKSV4 Andesite
- uKSV5 Basalt
- uKSV6 Ash tuff

uKBX BIRCUDA PIPE

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uKPO GRANODIORITE PORPHYRY

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LOWER TO MIDDLE JURASSIC

Laberge Group - Takwahoni Formation

- LTF CLASTIC SEDIMENTARY ROCK

UPPER TRIASSIC

Stuhini Group

- uTSF LIMESTONE AND LESSER CLASTIC ROCK
  - uTSF1 Limestone
  - uTSF2 Argillite

Stuhini Group

- uTMV MAFIC VOLCANIC ROCK
  - uTMV1 Pillow basalt
  - uTMV2 Andesitic lapilli tuff
  - uTMV3 Massive andesite: dark green, aphyric, aphanitic to fine-grained
  - uTMV4 Feldspar-augite porphyry: dark green, fine to medium-grained, sparse <1mm feldspar and augite phenocrysts
- uTMS MARINE SEDIMENTARY ROCK
  - uTMS1 Interbedded siltstone and wacke: well-bedded
  - uTMS2 Argillite
  - uTMS3 Limestone

SYMBOLS

- Fault lineation
- Magmatic flow foliation
- Dyke (inclined, vertical)
- Jointing (inclined, vertical)
- Bedding (inclined, vertical)
- Foliation (inclined, vertical)
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- ▲ sample — Rock sample (float, outcrop)
- Soil sample (grid, reconnaissance)
- sample — Silt sample
- DDH — Drill hole
- Legal corner post (located, approximate)
- Camp location
- H — Helicopter pad

ALTERATION TYPES

AL	alunite	BA	barite
CB	Fe-carbonate	CL	chlorite
EP	epidote	KF	K-spar
QZ	quartz veining	SI	silica
m	moderate	s	strong
w	weak		

CA	calcite	
CY	clay	
MS	sericite	
tr	trace	

0 50 100 150 250 metres

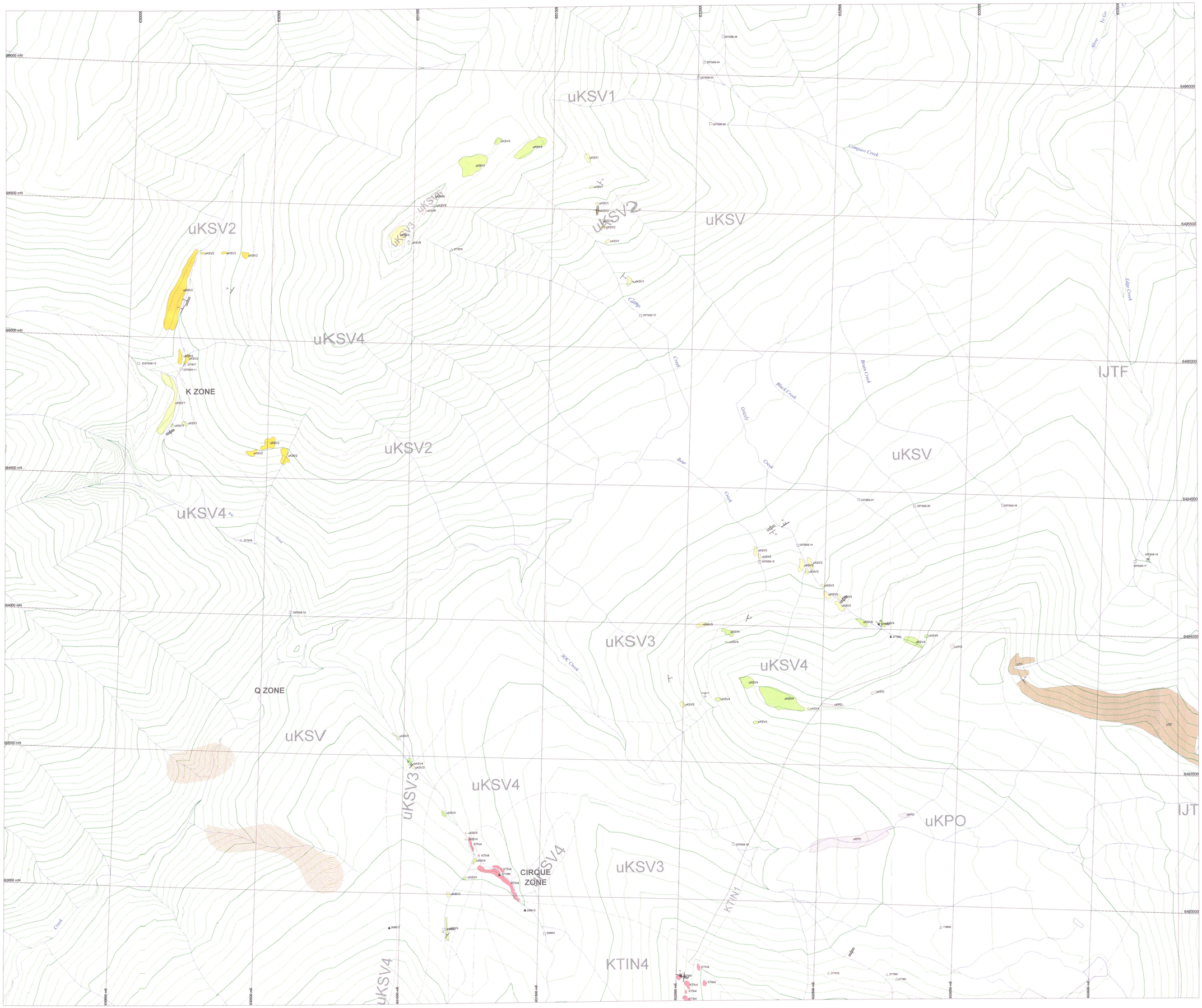
RIMFIRE MINERALS CORPORATION

THORN PROPERTY

LA JAUNE CENTRAL AREA GEOLOGY AND SAMPLE LOCATIONS

Date	FEB. 2004	Scale	1:2500
U.T.M. Zone	UTM8 - NAD83	Mining District	ATLIN
N.T.S.	104K/10	State/Province	BC

Figure 5b



ROCK SAMPLE RESULTS

SAMPLE	Au_ppb	Ag_ppm	As_ppm	Cu_ppm
118,958	-5	1.2	70	405
206,812	49	2	19	986
206,813	28.8	1.1	20	22
277,060	20	0.7	24	288
277,550	10	0.09	8.4	34.6
277,676	-10	0.79	4.6	5.8
277,677	1,240	5.56	79.6	7,320
277,678	1,510	8.59	134.5	95.9
277,679	180	290	747	9,250
277,680	450	54.8	455	3,690
277,681	20	32.2	1,205	89.6
277,682	-10	3.88	56.5	200
277,683	-10	4.79	42.4	364

LITHOLOGICAL LEGEND

LATE CRETACEOUS OR TERTIARY

KTIN INTRUSIVE DYKES, SILLS AND STOCKS

- KTIN1 Rhyolite dykes and sills: aphanitic or feldspar+quartz-phyric
- KTIN2 Biotite-hornblende granodiorite: fine to coarse-grained, local miarolitic cavities
- KTIN3 Basalt/andesite dykes: fine-grained, dark green to brown, weakly magnetic, aphyric or feldspar - phyric, calcite amygdules common
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LATE CRETACEOUS

uKSV SUBAERIAL VOLCANIC ROCK

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- uKSV5 Basalt
- uKSV6 Ash tuff

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- uKBX2 Equivalent to ukBX1 but moderately to strongly sericite-altered with 1-3% disseminated pyrite; some alteration pre-dates brecciation
- uKBX3 Mottled, matrix-rich breccia: 5-20%, angular to sub-rounded, pebble-sized fragments in a fine-grained groundmass locally characterized by abundant feldspar ±biotite phenocrysts; 1-2% pyrite; weakly to strongly sericite-altered
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- Magmatic flow foliation
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CB	Fe-carbonate	CL	chlorite
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w	weak	tr	trace

CA calcite
CY clay
MS sericite

0 50 100 150 250
metres

RIMFIRE MINERALS CORPORATION

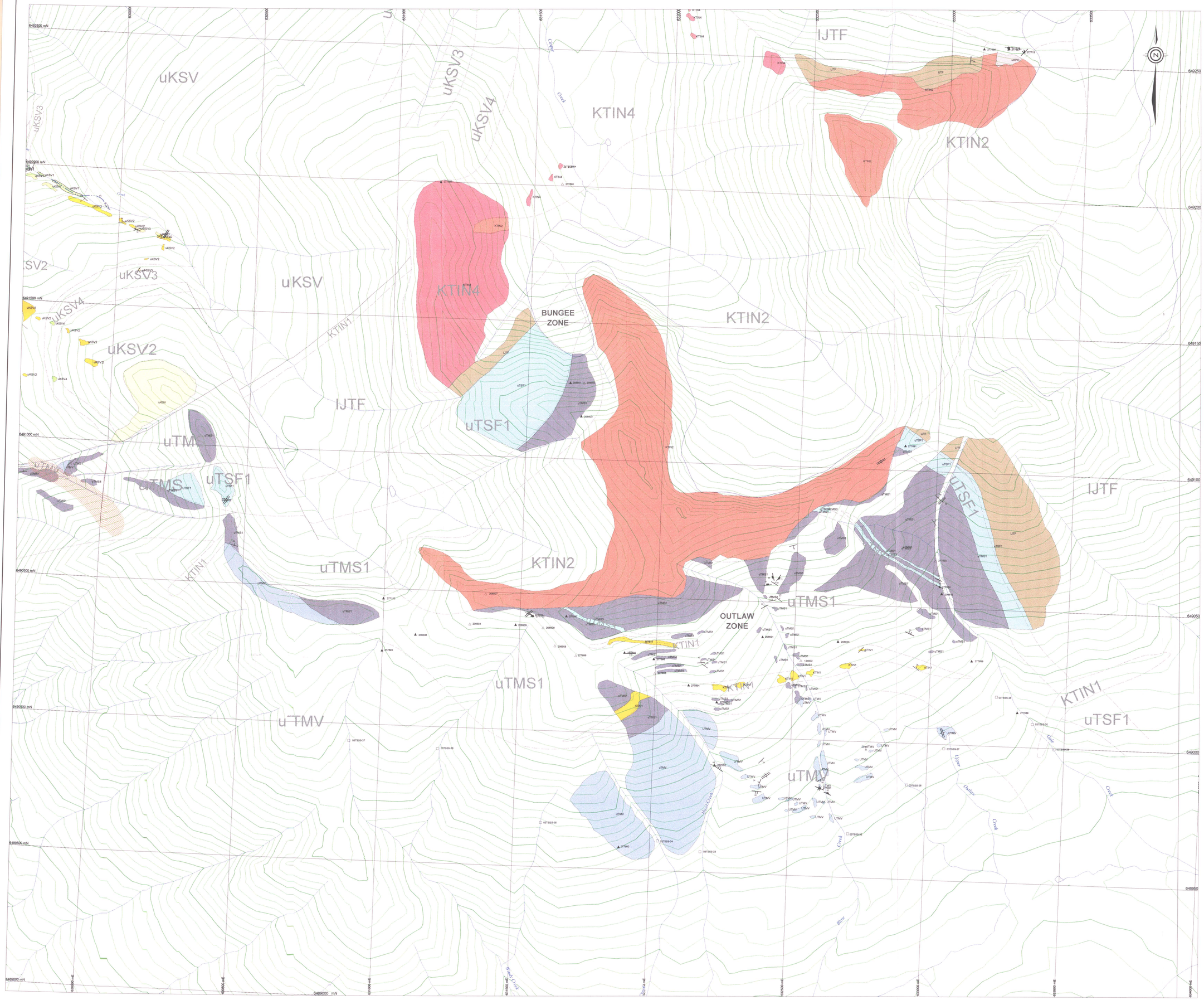
THORN PROPERTY

CIRQUE AREA GEOLOGY AND SAMPLE LOCATIONS

EQUITY

Date	FEB, 2004	Scale	1:5,000
U.T.M. Zone	UTM8 - NAD83	Mining District	ATLIN
N.T.S.	104K10	State/Province	BC

Figure 5c



ROCK SAMPLE RESULTS

SAMPLE	Au_ppb	Ag_ppm	As_ppm	Cu_ppm	Pb_ppm
277,051	-0.01	0.05	20	5.1	1.6
277,052	-0.01	0.35	97	81.3	2.5
277,053	670	1.55	133	426	6.4
277,054	10	0.13	122	34.4	8.1
277,151	120	3.21	74.9	172.5	8.3
277,152	30	0.83	120	105	23.2
277,684	-10	0.04	471	3.6	5.5
277,685	20	4.74	38.5	159	85
277,686	10	-0.01	0.1	0.3	0.2
277,687	5,750	2.29	10,000	119	0.2
277,688	30	1.68	238	1,190	20.8
277,689	40	0.39	4,260	12.6	88.7
277,690	-10	0.18	77.3	83.8	9.7
277,691	-10	0.1	88	23.5	3.2
277,692	100	1.78	982	74.4	11.3
277,693	20	0.98	283	272	35.7
277,694	250	1.34	944	254	15.4
277,695	1,450	14.05	10,000	988	412
277,696	1,470	8.58	9,660	430	1,135
277,697	760	28.6	713	1,280	1,890
277,698	40	0.38	9,940	121.5	11.6
277,699	280	1.11	3,600	99.6	17.8
277,700	2,130	28.6	78.2	822	52.6
277,059	105	3.3	5,620	120	29
277,715	80	0.2	3,340	17	46
277,716	-10	1.7	76	53	61
277,717	10	2.1	1,270	319	51
124,002	36	11	149	791	594
206,501	17.1	8.6	16	24	76
206,502	10.3	6.7	1,239	64	49
206,503	61.8	5.2	34	55	26
206,504	372.2	1.6	56	10	30
206,505	884.6	5.2	280	195	22
206,506	249.4	1.7	276	34	144
206,507	1.9	-0.3	8	2	3
206,508	170.4	3.3	1,360	82	16
206,509	773.2	4.7	1,453	307	262
206,619	48	2.9	70	75	7
206,620	98.55	1.5	151	140	7
206,621	20.4	-0.3	297	9	3

LITHOLOGICAL LEGEND

LATE CRETACEOUS OR TERTIARY

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uKPO GRANODIORITE PORPHYRY

- ukPO1 Coarse-grained feldspar-biotite porphyry: 15-40% anhedral 1-5mm feldspar, 15-30% euhedral equant 3-6mm glassy quartz and 5-15% euhedral equant 3-6mm biotite phenocrysts
- ukPO2 Fine-grained feldspar-biotite porphyry: 30% anhedral 0.5mm feldspar, 0-5% subhedral 2-4mm quartz and 5% euhedral equant 4mm biotite phenocrysts
- ukPO3 Coarse-grained feldspar-biotite porphyry; strongly fractured and faulted with moderate to strong sericite ±clay alteration

LOWER TO MIDDLE JURASSIC

Laberge Group - Takwahoni Formation

IJTF CLASTIC SEDIMENTARY ROCK

UPPER TRIASSIC

Sinwa Formation

uTSF LIMESTONE AND LESSER CLASTIC ROCK

- uTSF1 Limestone
- uTSF2 Argillite

Stuhini Group

uTMV MAFIC VOLCANIC ROCK

- uTMV1 Pillow basalt
- uTMV2 Andesitic lapilli tuff
- uTMV3 Massive andesite: dark green, aphyric, aphanitic to fine-grained
- uTMV4 Feldspar-augite porphyry: dark green, fine to medium-grained, sparse +1mm feldspar and augite phenocrysts

uTMS MARINE SEDIMENTARY ROCK

- uTMS1 Interbedded siltstone and wacke: well-bedded
- uTMS2 Argillite
- uTMS3 Limestone

SYMBOLS

- Magmatic flow foliation
- Dyke (inclined, vertical)
- Jointing (inclined, vertical)
- Bedding (inclined, vertical)
- Foliation (inclined, vertical)
- Fracturing
- Faulting (inclined, vertical)
- Veining (inclined, vertical)
- Outcrop
- Lithological contact (defined, inferred)
- Vein
- Gossan
- Syn mineralization, fault (triangle indicates dip direction)
- Post-mineralization, fault (rectangle indicates dip direction)
- ▲ sample — Rock sample (float, outcrop)
- Soil sample (grid, reconnaissance)
- □ sample — Silt sample
- DDH — Drill hole
- Legal corner post (located, approximate)
- Camp location
- (H) — Helicopter pad

ALTERATION TYPES

AL	alunite	BA barite	CA calcite
CB	Fe-carbonate	CL chlorite	CY clay
EP	epidote	KF K-spar	MS sericite
QZ	quartz veining	SI silica	
m	moderate	s strong	tr trace
w	weak		

MINISTRY OF ENERGY, MINES AND PETROLEUM RESOURCES
GEOLOGICAL SURVEY BRANCH

0 50 100 150 250 metres

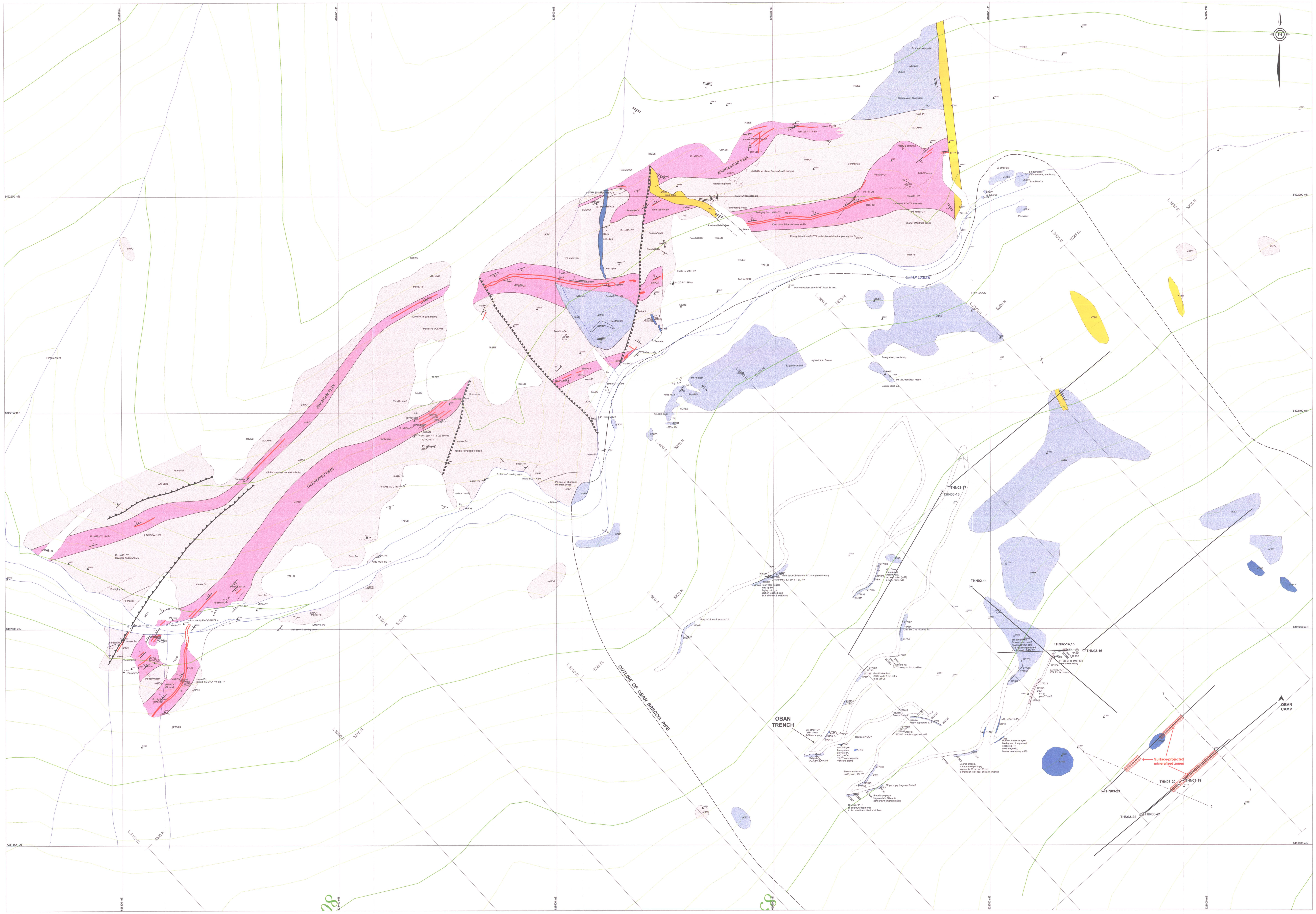
RIMFIRE MINERALS CORPORATION

THORN PROPERTY

OUTLAW AREA GEOLOGY AND SAMPLE LOCATIONS

Date	FEB, 2004	Scale	1:5,000
U.T.M. Zone	UTM8 - NAD83	Mining District	ATLIN
N.T.S.	104K/10	State/Province	BC

Figure 5d



2003 CHANNEL SAMPLE RESULTS

SAMPLE	Au_ppb	Ag_ppm	As_ppm	Cu_ppm	Pb_ppm	Sb_ppm	Zn_ppm
277001	10	1.6	112	53	142	18	214
277002	10	1.2	28	67	45	8	101
277003	10	0.5	21	76	42	4	136
277004	10	0.4	23	79	34	5	174
277005	20	0.7	108	34	32	5	72
277006	30	0.6	282	42	44	7	144
277007	30	0.6	420	36	39	6	75
277008	20	0.6	201	57	41	4	100
277009	20	0.6	183	44	36	3	95
277012	10	0.4	32	65	30	4	48
277013	10	0.2	35	74	40	4	49
277014	10	0.2	32	51	34	3	82
277015	-10	-0.2	30	46	33	3	112
277016	-10	-0.2	26	92	32	2	196
277017	10	0.2	27	45	59	2	349
277018	10	0.2	30	20	30	3	122
277019	-10	0.3	28	56	25	10	116
277020	10	0.2	29	74	28	18	150
277021	10	0.2	32	35	55	6	455
277022	10	0.3	22	84	40	2	623
277023	70	3.4	172	152	214	26	375
277024	10	0.8	27	51	28	5	873
277025	20	4.3	187	283	889	24	1,180
277026	150	104	495	335	10,000	202	5,170
277027	10	7.7	257	93	3,040	15	261
277028	10	2.4	207	69	320	7	194
277029	10	1.8	198	206	110	11	675
277030	20	2.4	314	432	323	9	1,515
277031	20	2.4	321	215	135	15	1,080
277032	20	2.5	511	140	252	14	483
277033	30	0.5	174	61	53	3	565
277034	20	-0.2	25	13	23	-2	25
277035	-10	-0.2	16	6	25	-2	25
277036	-10	-0.2	27	11	33	-2	37
277037	-10	-0.2	26	12	24	-2	50
277038	-10	0.2	14	8	22	-2	24
277039	-10	0.7	24	164	46	5	1,525
277040	10	0.6	18	126	40	3	476
277041	-10	0.7	26	203	57	4	785
277042	20	0.7	30	98	67	4	1,140
277043	-10	0.9	36	96	56	3	999
277044	-10	0.7	29	88	40	2	896
277045	10	0.7	21	151	47	-2	1,275
277046	10	0.4	26	104	23	2	482
277047	-10	0.5	22	126	33	-2	378
277048	10	0.6	25	148	43	-2	427
277101	10	0.5	11	174	36	-2	506
277102	10	0.5	19	167	37	-2	731
277103	10	0.6	15	150	44	-2	880
277104	-10	-0.2	10	13	25	2	52
277105	-10	-0.2	14	16	24	-2	76
277106	10	0.2	22	47	33	2	69
277107	-10	0.4	35	93	59	6	148
277108	-10	7.6	255	10	2,030	20	1,610
277109	-10	2.2	328	10	693	20	855
277110	10	1.7	199	20	418	13	883
277111	-10	3.4	494	16	519	20	720
277112	10	7	1,045	13	1,075	29	1,480
277113	10	5.7	851	11	723	28	777
277114	10	4.3	907	11	488	18	650
277115	-10	13	1,595	11	718	35	344
277551	50	2.3	82	42	78	10	76
277552	30	3.9	127	29	47	33	22
277553	150	2.5	89	16	48	4	82
277554	20	0.6	58	13	30	3	49
277601	727	150	633	16	1,695	864	17
277602	966	182	936	13	3,580	1,790	13
277603	285	107	2,860	40	6,230	1,250	77
277604	182	45.9	3,750	25	1,890	274	117
277605	221	30.7	4,800	21	2,550	288	279
277606	80	14.1	4,240	49	1,240	156	2,080
277607	7	0.3	92	60	48	8	222
277608	47	2.2	169	15	356	22	127
277609	41	2.4	77	27	69	21	134
277610	27	1.6	158	30	52	23	170
277611	33	2	248	21	91	17	168
277612	52	3	306	30	102	21	285
277613	204	2.5	119	28	245	18	112
277614	50	1.4	144	13	238	9	85
277615	-5	-0.2	17	19	24	9	211
277616	-5	0.4	32	72	30	24	122
277617	-5	-0.2	33	108	31	24	152
277618	-5	-0.2	306	15	22	3	161
277621	-5	-0.2	25	9	24	2	165
277622	-5	-0.2	21	9	27	3	106
277623	-5	-0.2	121	10	28	2	108
277624	-5	-0.2	16	10	28	2	76
277625	-5	-0.2	11	11	24	3	83
277626	-5	0.2	19	19	23	2	40
277627	-5	0.3	21	19	26	3	32
277628	15	0.3	89	27	82	5	91
277629	5	0.2	59	27	70	4	154
277630	11	0.2	78	30	45	5	82
277631	6	0.2	36	29	34	6	62
277632	9	0.5	70	40	108	6	45
277633	18	0.2	120	28	43	6	137
277634	7	0.2	86	41	32	11	76
277635	23	2.5	78	15	96	4	40
277636	5	0.2	50	30	36	4	57
277637	-5	-0.2	31	25	24	2	133
277638	-5	-0.2	28	14	23	3	54
277641	-5	-0.2	20	16	19	2	47
277642	-5	-0.2	39	14	25	5	102
277643	-5	-0.2	57	14	24	8	142
277644	20	0.8	152	39	43	16	86
277645	10	0.2	117	24	46	6	87
277646	40	0.6	303	35	92	9	117
277647	70	1.4	209	28	268	8	523
277648	10	0.4	52	29	30	7	65
277649	10	0.4	61	31	26	8	66
277650	10	-0.2	188	33	33	9	82
277701	137	9.7	86	80	164	37	27
277702	7,040	748	10,000	10,000	581	10,000	1,135
277703	693	91.6	2,520	3,550	258	1,540	237
277704	89	3.4	153	88	196	26	152
277705	10,900	1,470	10,000	10,000	918	10,000	1,290
277706	75	15.5	292	144	826	97	357
277707	839	269	8,670	10,000	1,405	5,360	1,365
277708	1,710	546	10,000	10,000	1,010	10,000	2,190
277709	210	18.9	419	374	174	259	59
277710	1,560	139	2,960	5,000	500	2,410	155
277711	53	2.8	134	36	232	28	76
277712	2,000	405	10,000	10,000	1,085	10,000	1,215
277713	56	4	303	195	160	102	30
277714	923	373	10,000	10,000	1,870	9,540	2,040
277010/1	10	0.35	30.5	50	56.5	3	73.5
277049/5	10	0.8	24	349.5	46.5	-2	355.5
277619/2	-5	-0.2	38.5	10	25.5	4.5	189.5
277639/4	-5	-0.2	19.5	14.5	23.5	2	69.5

LITHOLOGICAL LEGEND

LATE CRETACEOUS OR TERTIARY

KTIN INTRUSIVE DYKES, SILLS AND STOCKS
- KTIN1 Rhyolite dykes and sills: aphanitic or feldspar+quartz-phyric
- KTIN2 Biotite-hornblende granodiorite: fine to coarse-grained, local miarolitic cavities
- KTIN3 Basalt/andesite dykes: fine-grained, dark green to brown, weakly magnetic, aphyric or feldspar - phyric, calcite amygdules common
- KTIN4 Monzonite and diorite
- KTIN5 Hornblende lamprophyre dykes

LATE CRETACEOUS

uKSV SUBAERIAL VOLCANIC ROCK
- uKSV1 Dacitic/andesitic tuff, lapilli tuff and block tuff: Maroon to grey-brown, matrix-supported
- uKSV2 Rhyolitic tuff and agglomerate
- uKSV3 Rhyolite
- uKSV4 Andesite
- uKSV5 Basalt
- uKSV6 Ash tuff

uKBX BRECCIA PIPE
- uKBX1 Magmatic-hydrothermal breccia: fragments dominantly of uKPO but with fewer fragments of other porphyritic lithologies, rhyolite dykes, massive pyrite, pale blue chalcedony, foliated Stuhini(?) andesite and rebrecciated breccia matrix, typically fragment-supported, fragments angular to rounded up to >1 m diameter, weakly chlorite and sericite-altered
- uKBX2 Equivalent to uKBX1 but moderately to strongly sericite-altered with 1-3% disseminated pyrite; some alteration pre-dates brecciation
- uKBX3 Mottled, matrix-rich breccia: 5-20%, angular to sub-rounded, pebble-sized fragments in a fine-grained groundmass locally characterized by abundant feldspar ±biotite phenocrysts; 1-2% pyrite; weakly to strongly sericite-altered
- uKBX4 Crackle breccia: uKPO with abundant thin fractures, locally grades into uKBX

uKPO GRANODIORITE PORPHYRY
- uKPO1 Coarse-grained feldspar-biotite porphyry: 15-40% anhedral 1-5mm feldspar, 15-30% euhedral equant 3-6mm glassy quartz and 5-15% euhedral equant 3-6mm biotite phenocrysts
- uKPO2 Fine-grained feldspar-biotite porphyry: 30% anhedral 0.5mm feldspar, 0-5% subhedral 2-4mm quartz and 5% euhedral equant 4mm biotite phenocrysts
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LOWER TO MIDDLE JURASSIC

Laberge Group - Takwahoni Formation
- lJTF CLASTIC SEDIMENTARY ROCK

UPPER TRIASSIC

Sinwa Formation

uTSF LIMESTONE AND LESSER CLASTIC ROCK
- uTSF1 Limestone
- uTSF2 Argillite

Stuhini Group

uTMV MAFIC VOLCANIC ROCK
- uTMV1 Pillow basalt
- uTMV2 Andesitic lapilli tuff
- uTMV3 Massive andesite: dark green, aphyric, aphanitic to fine-grained
- uTMV4 Feldspar-augite porphyry: dark green, fine to medium-grained, sparse <1mm feldspar and augite phenocrysts

uTMS MARINE SEDIMENTARY ROCK
- uTMS1 Interbedded siltstone and wacke: well-bedded
- uTMS2 Argillite
- uTMS3 Limestone

SYMBOLS

- Fault lineation
- Magmatic flow foliation
- Dyke (inclined, vertical)
- Jointing (inclined, vertical)
- Bedding (inclined, vertical)
- Foliation (inclined, vertical)
- Fracturing
- Faulting (inclined, vertical)
- Veining (inclined, vertical)
- Outcrop
- Lithological contact (defined, inferred)
- Vein
- Gossan
- Syn mineralization, fault (triangle indicates dip direction)
- Post-mineralization, fault (rectangle indicates dip direction)
- △ ▲ sample — Rock sample (float, outcrop)
- Soil sample (grid, reconnaissance)
- □ sample — Silt sample
- DDH — Drill hole
- Legal corner post (located, approximate)
- Camp location
- Helicopter pad

ALTERATION TYPES

AL alunite	BA barite	CA calcite
CB Fe-carbonate	CL chlorite	CY clay
EP epidote	KF K-spar	MS sericite
QZ quartz veining	SI silica	
m moderate	s strong	tr trace

0 25 50
meters

RIMFIRE MINERALS CORPORATION

THORN PROPERTY

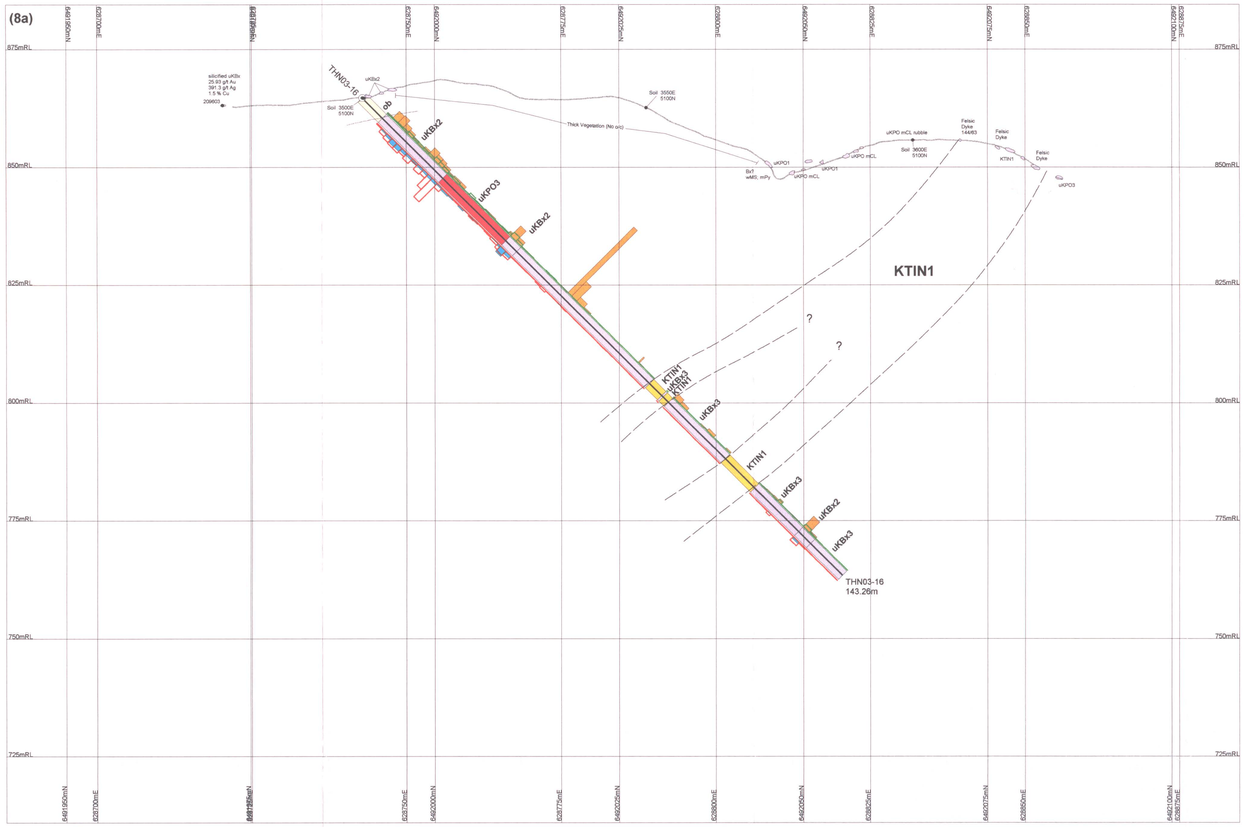
OBAN / F ZONE AREA GEOLOGY AND GEOCHEMISTRY

M6

EQUITY

Date: FEB, 2004	Scale: 1:500	Figure: 6	
U.T.M. Zone: UTM8 - NAD83	Mining District: ATLIN		
N.T.S.: 104K/10	State/Province: BC		

(8a)



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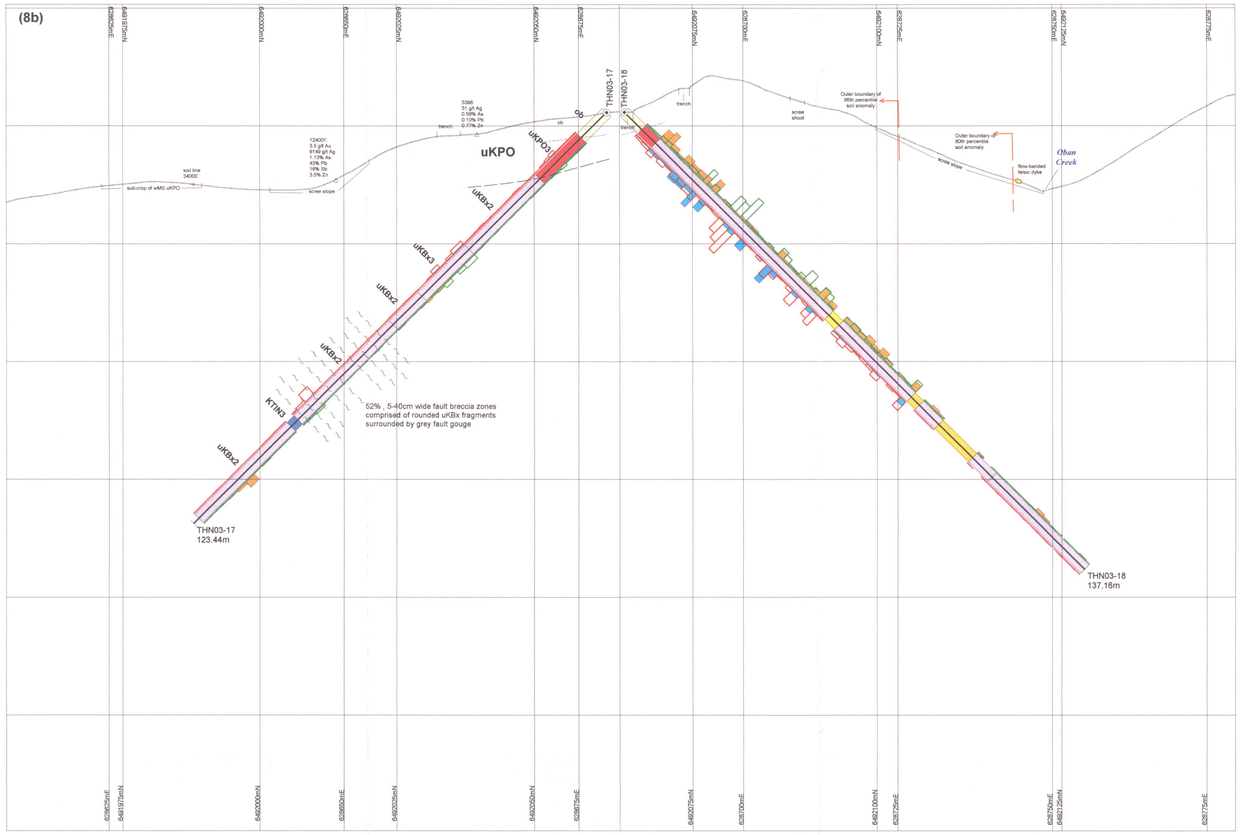

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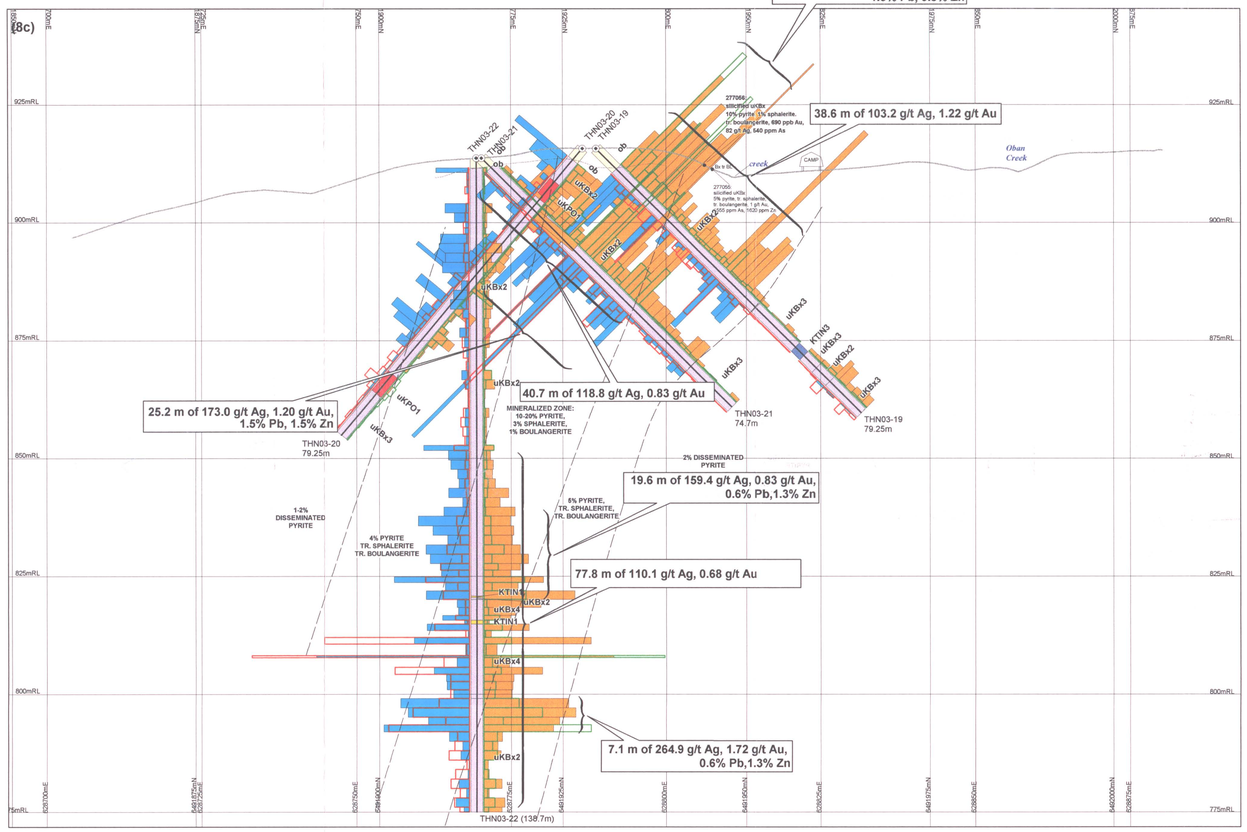

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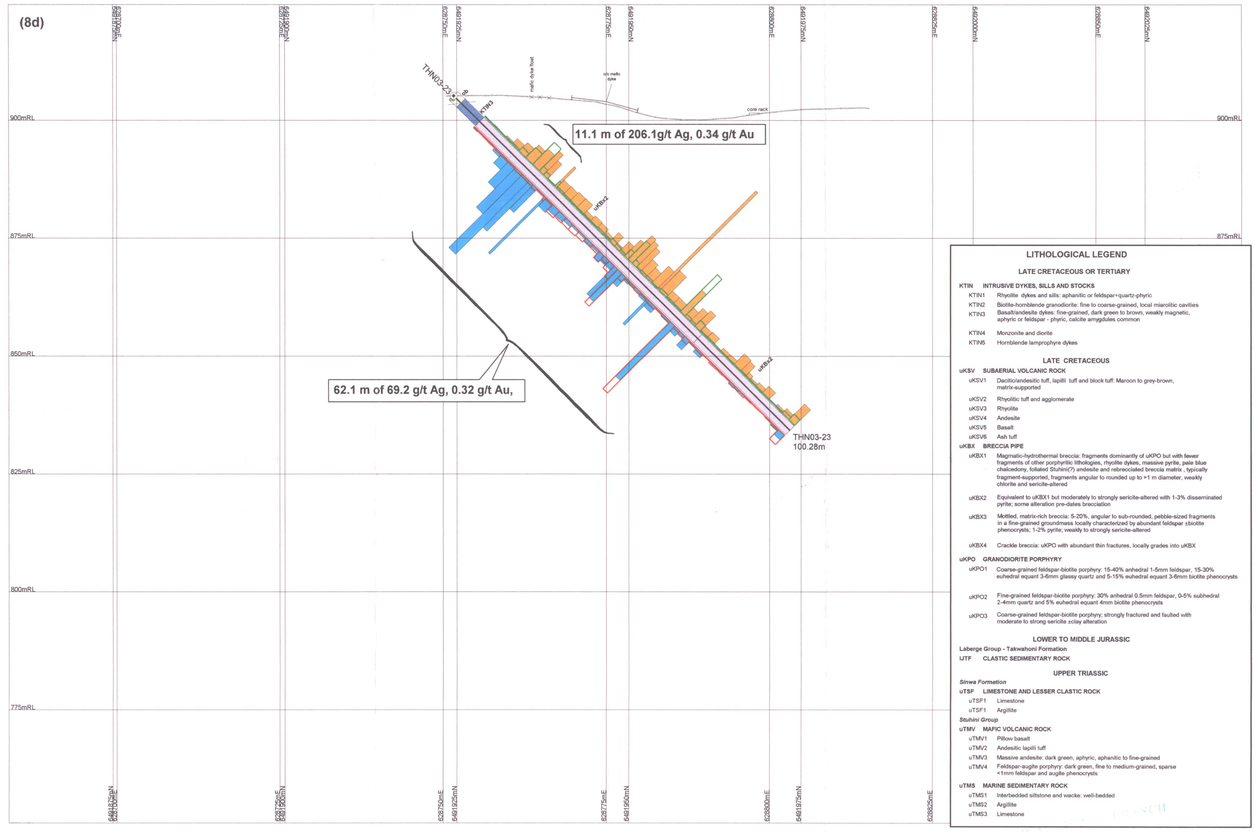

LITHOLOGICAL LEGEND

LATE CRETACEOUS OR TERTIARY

KTIN INTRUSIVE DYKES, SILLS AND STOCKS

- KTIN1 Rhyolite dykes and sills: aphanitic or feldspar+quartz-phyric
- KTIN2 Biotite-hornblende granodiorite: fine to coarse-grained, local miarolitic cavities
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- KTIN4 Monzonite and diorite
- KTIN5 Hornblende lamprophyre dykes

LATE CRETACEOUS

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- uKSV1 Dacitic/andesitic tuff, lapilli tuff and block tuff: Maroon to grey-brown, matrix-supported
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- uKSV3 Rhyolite
- uKSV4 Andesite
- uKSV5 Basalt
- uKSV6 Ash tuff

uKBX BRECCIA PIPE

- uKBX1 Magmatic-hydrothermal breccia: fragments dominantly of uKPO but with fewer fragments of other porphyritic lithologies, rhyolite dykes, massive pyrite, pale blue chalcedony; foliated Stuhini(?) andesite and rebrecciated breccia matrix , typically fragment-supported, fragments angular to rounded up to >1 m diameter, weakly chlorite and sericite-altered
- uKBX2 Equivalent to uKBX1 but moderately to strongly sericite-altered with 1-3% disseminated pyrite; some alteration pre-dates brecciation
- uKBX3 Mottled, matrix-rich breccia: 5-20%, angular to sub-rounded, pebble-sized fragments in a fine-grained groundmass locally characterized by abundant feldspar clisolite phenocrysts; 1-2% pyrite; weakly to strongly sericite-altered
- uKBX4 Crackle breccia: uKPO with abundant thin fractures, locally grades into uKBX

uKPO GRANODIORITE PORPHYRY

- uKPO1 Coarse-grained feldspar-biotite porphyry: 15-40% anhedral 1-5mm feldspar, 15-30% euhedral equant 3-6mm glassy quartz and 5-15% euhedral equant 3-6mm biotite phenocrysts
- uKPO2 Fine-grained feldspar-biotite porphyry: 30% anhedral 0.5mm feldspar, 0-5% subhedral 2-4mm quartz and 5% euhedral equant 4mm biotite phenocrysts
- uKPO3 Coarse-grained feldspar-biotite porphyry; strongly fractured and faulted with moderate to strong sericite ±clay alteration

LOWER TO MIDDLE JURASSIC

Laberge Group - Takwahoni Formation

UTF CLASTIC SEDIMENTARY ROCK

UPPER TRIASSIC

Stikine Formation

uTSF LIMESTONE AND LESSER CLASTIC ROCK

- uTSF1 Limestone
- uTSF1 Argillite

Stuhini Group

uTMV MAFIC VOLCANIC ROCK

- uTMV1 Pillow basalt
- uTMV2 Andesitic lapilli tuff
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- uTMV4 Feldspar-augite porphyry: dark green, fine to medium-grained, sparse <1mm feldspar and augite phenocrysts

uTMS MARINE SEDIMENTARY ROCK

- uTMS1 Interbedded siltstone and wacke: well-bedded
- uTMS2 Argillite
- uTMS3 Limestone

0 25 50
meters

HoleID

Zn Histogram
1cm = 2 %

Pb Histogram
1 cm = 1%

Ag Histogram
1 cm = 100 ppm Ag

Au Histogram
1 cm = 500 ppb

EOH

RIMFIRE MINERALS CORPORATION

THORN PROPERTY

2003 THORN DRILL SECTIONS

	Date: FEB 2004	Scale: 1:500	Figure: 8
	G.T.M. Zone: UTM8 - NAD83	Mining District: ATLIN	
	N.T.S: 104K/10	State/Province: BC	

OBAN INSET AREA

OBAN INSET AREA (1:5000)

Thorn Claims Outline

Au (ppb) in soils
- +724 (>98th %tile)
- 110 to 724 (>90-98th %tile)
- 53 to 110 (>80-90th %tile)
- 17 to 53 (>50-80th %tile)
- <17 (<50th %tile)

Au (ppb) in silts
- +215 (>99th %tile)
- 50 to 215 (>95-99th %tile)
- 26 to 50 (>90-95th %tile)
- 16 to 26 (>80-90th %tile)
- <16 (<80th %tile)

Anomalous zone

not analyzed

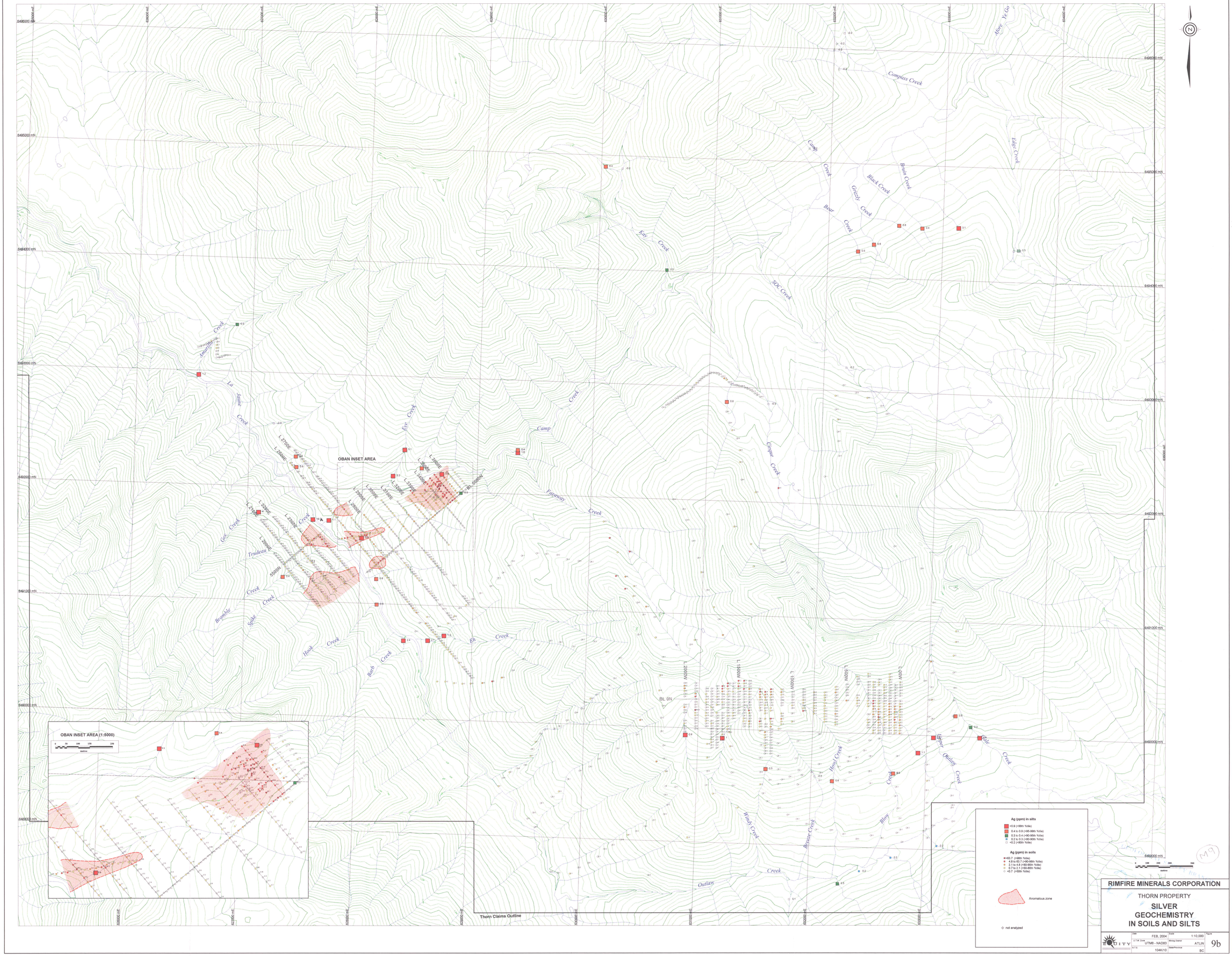
RIMFIRE MINERALS CORPORATION

THORN PROPERTY

GOLD GEOCHEMISTRY IN SOILS AND SILTS

Date	FEB, 2004	Scale	1:10,000
U.T.M. Zone	UTM8 - NAD83	Mining District	ATLIN
N.T.S.	104K/10	State/Province	BC

Figure 9a



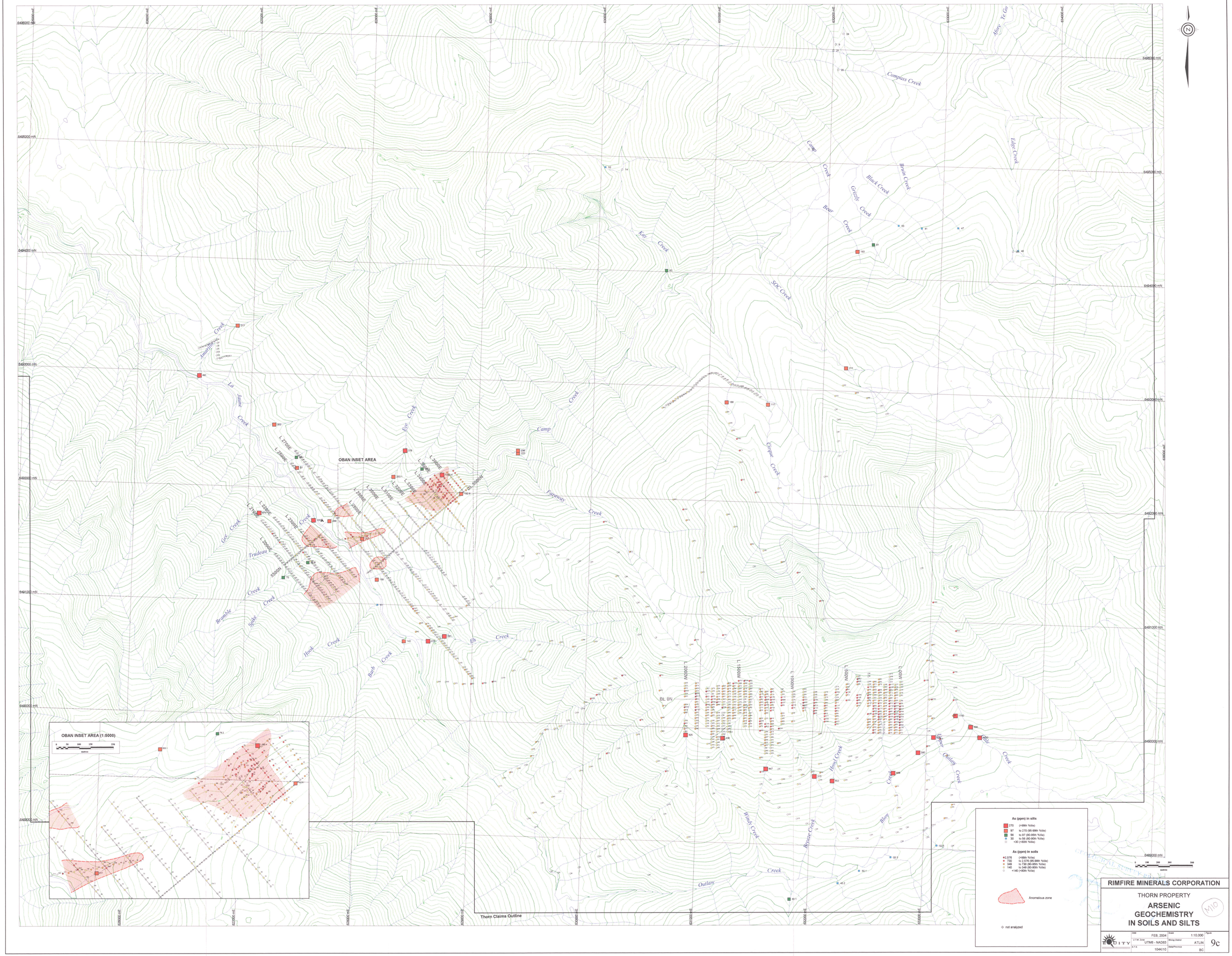
RIMFIRE MINERALS CORPORATION

THORN PROPERTY

SILVER GEOCHEMISTRY IN SOILS AND SILTS

Date	FEB, 2004	Scale	1:10,000
UTM Zone	UTM8 - NAD83	Mining District	ATLIN
N.T.S.	104K/10	State/Province	BC

Figure 9b



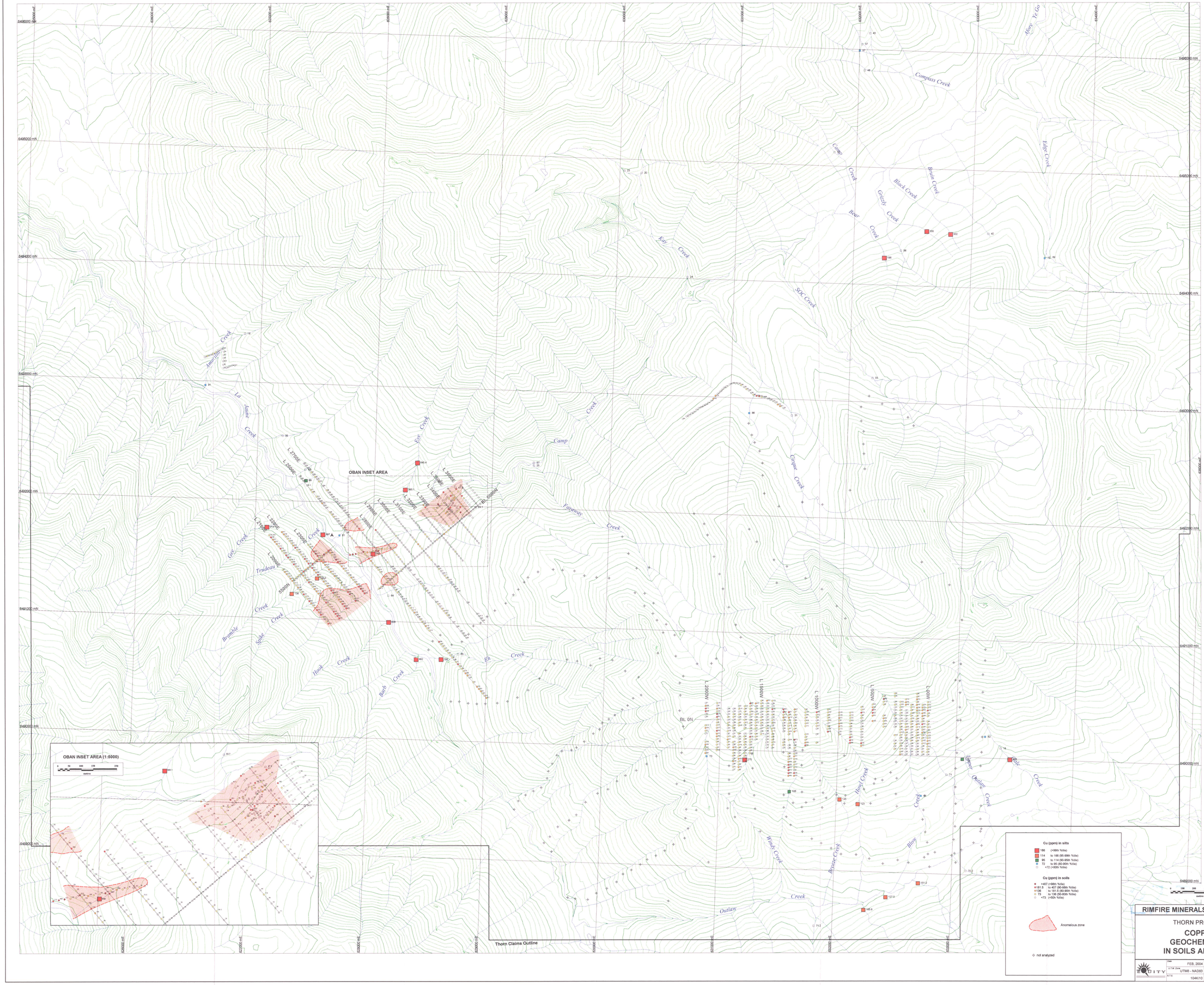
RIMFIRE MINERALS CORPORATION

THORN PROPERTY

ARSENIC GEOCHEMISTRY IN SOILS AND SILTS

Date	FEB, 2004	Scale	1:10,000
U.T.M. Zone	UTM8 - NAD83	Mining District	ATLIN
N.T.S.	104K/10	State/Province	BC

Figure 9c



RIMFIRE MINERALS CORPORATION

THORN PROPERTY

COPPER GEOCHEMISTRY IN SOILS AND SILTS

Date: FEB, 2004	Scale: 1:10,000	Figure: 9d	
U.T.M. Zone: UTM8 - NAD83	Mining District: ATLIN		
N.T.S.: 104K/10	State/Province: BC		

OBAN INSET AREA

OBAN INSET AREA (1:5000)

Thorn Claims Outline

Pb (ppm) in silts

87 (>99th %tile)
39 to 67 (95-99th %tile)
26 to 39 (90-95th %tile)
17 to 26 (80-90th %tile)
<17 (<80th %tile)

Pb (ppm) in soils

3,517.3 (>98th %tile)
453.3 to 3,517.3 (90-98th %tile)
194 to 453.3 (80-90th %tile)
68.5 to 194 (50-80th %tile)
<68.5 (<50th %tile)

Anomalous zone

not analyzed

RIMFIRE MINERALS CORPORATION

THORN PROPERTY

LEAD GEOCHEMISTRY IN SOILS AND SILTS

Date	FEB, 2004	Scale	1:10,000
U.T.M. Zone	UTM8 - NAD83	Mining District	ATLIN
N.T.S.	104K/10	State/Province	BC

Figure 9e

OBAN INSET AREA

OBAN INSET AREA (1:5000)

Thorn Claims Outline

Sb (ppm) in silts
- 13 (>99th %tile)
- 5.2 to 13 (95-99th %tile)
- 3.2 to 5.2 (90-95th %tile)
- 1.8 to 3.2 (80-90th %tile)
- <1.8 (<80th %tile)

Sb (ppm) in soils
- 685 (>98th %tile)
- 45 to 685 (90-98th %tile)
- 16 to 45 (80-90th %tile)
- 7 to 16 (50-80th %tile)
- <7 (<50th %tile)

Anomalous zone

not analyzed

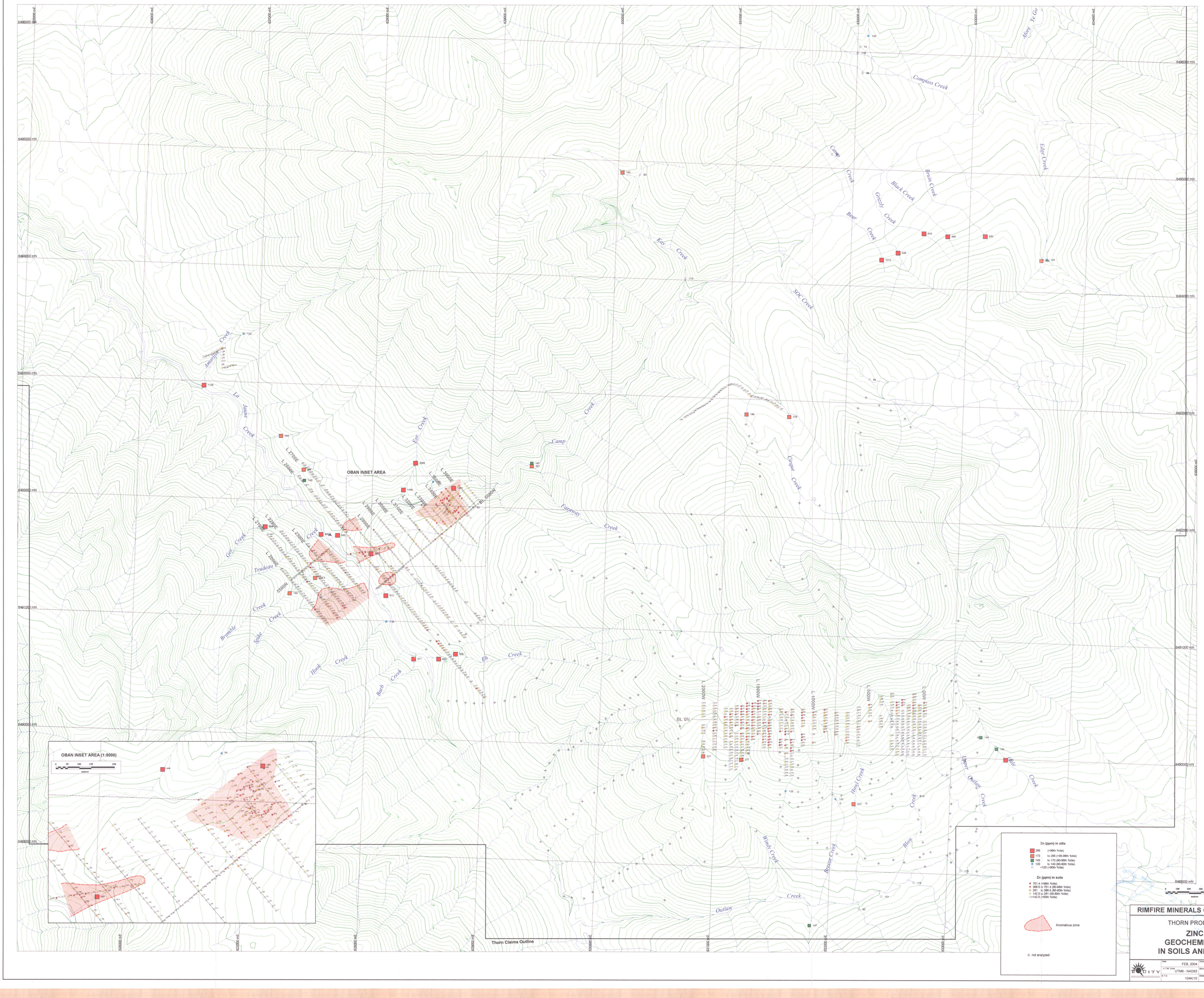
RIMFIRE MINERALS CORPORATION

THORN PROPERTY

ANTIMONY GEOCHEMISTRY IN SOILS AND SILTS

Date	FEB, 2004	Scale	1:10,000
U.T.M. Zone	UTM8 - NAD83	Mining District	ATLIN
N.T.S.	104K/10	Province	BC

Figure 9f



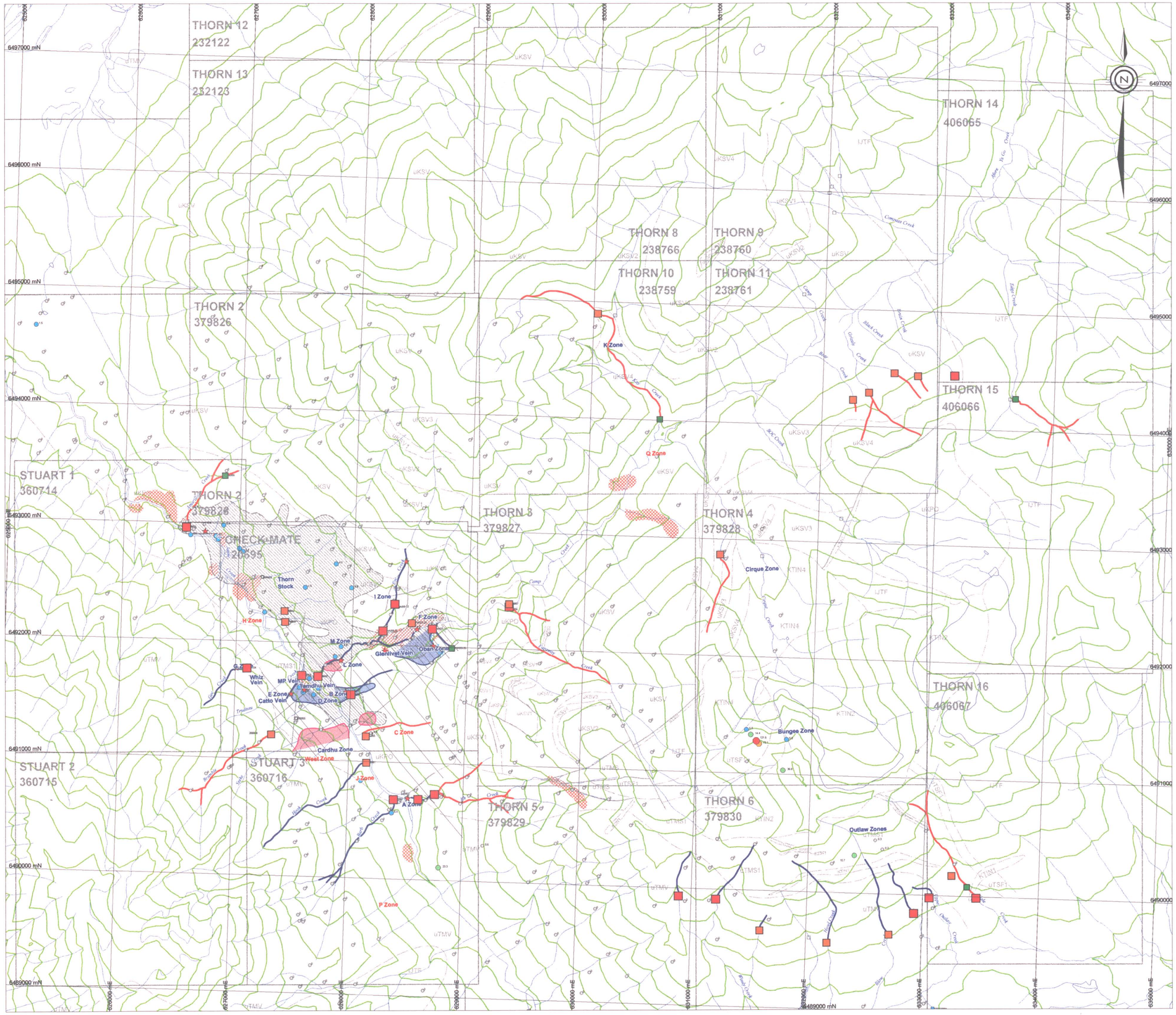
RIMFIRE MINERALS CORPORATION

THORN PROPERTY

ZINC GEOCHEMISTRY IN SOILS AND SILTS

Date	FEB, 2004	Scale	1:10,000
U.T.M. Zone	UTM8 - NAD83	Mining District	ATLIN
N.T.S.	104K/10	State/Province	BC

Figure 9g



LITHOLOGICAL LEGEND

LATE CRETACEOUS OR TERTIARY

KTIN INTRUSIVE DYKES, SILLS AND STOCKS

- KTIN1 Rhyolite dykes and sills: aphanitic or feldspar+quartz-phyric
- KTIN2 Biotite-hornblende granodiorite: fine to coarse-grained, local miarolitic cavities
- KTIN3 Basalt/andesite dykes: fine-grained, dark green to brown, weakly magnetic, aphyric or feldspar - phyric, calcite amygdules common
- KTIN4 Monzonite and diorite
- KTIN5 Hornblende lamprophyre dykes

LATE CRETACEOUS

uKSV SUBAERIAL VOLCANIC ROCK

- uKSV1 Dacitic/andesitic tuff, lapilli tuff and block tuff: Maroon to grey-brown, matrix-supported
- uKSV2 Rhyolitic tuff and agglomerate
- uKSV3 Rhyolite
- uKSV4 Andesite
- uKSV5 Basalt
- uKSV6 Ash tuff

uKBX BRECCIA PIPE

- uKBX1 Magmatic-hydrothermal breccia: fragments dominantly of uKPO but with fewer fragments of other porphyritic lithologies, rhyolite dykes, massive pyrite, pale blue chalcedony, foliated Stuhini(?) andesite and rebrecciated breccia matrix , typically fragment-supported, fragments angular to rounded up to >1 m diameter, weakly chlorite and sericite-altered
- uKBX2 Equivalent to uKBX1 but moderately to strongly sericite-altered with 1-3% disseminated pyrite; some alteration pre-dates brecciation
- uKBX3 Mottled, matrix-rich breccia: 5-20%, angular to sub-rounded, pebble-sized fragments in a fine-grained groundmass locally characterized by abundant feldspar ±biotite phenocrysts; 1-2% pyrite; weakly to strongly sericite-altered
- uKBX4 Crackle breccia: uKPO with abundant thin fractures, locally grades into uKBX

uKPO GRANODIORITE PORPHYRY

- uKPO1 Coarse-grained feldspar-biotite porphyry: 15-40% anhedral 1-5mm feldspar, 15-30% euhedral equant 3-6mm glassy quartz and 5-15% euhedral equant 3-6mm biotite phenocrysts
- uKPO2 Fine-grained feldspar-biotite porphyry: 30% anhedral 0.5mm feldspar, 0-5% subhedral 2-4mm quartz and 5% euhedral equant 4mm biotite phenocrysts
- uKPO3 Coarse-grained feldspar-biotite porphyry; strongly fractured and faulted with moderate to strong sericite ±clay alteration

LOWER TO MIDDLE JURASSIC

Laberge Group - Takwahoni Formation

lJTF CLASTIC SEDIMENTARY ROCK

UPPER TRIASSIC

Sinwa Formation

uTSF LIMESTONE AND LESSER CLASTIC ROCK

- uTSF1 Limestone
- uTSF2 Argillite

Stuhini Group

uTMV MAFIC VOLCANIC ROCK

- uTMV1 Pillow basalt
- uTMV2 Andesitic lapilli tuff
- uTMV3 Massive andesite: dark green, aphyric, aphanitic to fine-grained
- uTMV4 Feldspar-augile porphyry: dark green, fine to medium-grained, sparse <1mm feldspar and augile phenocrysts

uTMS MARINE SEDIMENTARY ROCK

- uTMS1 Interbedded siltstone and wacke: well-bedded
- uTMS2 Argillite
- uTMS3 Limestone

Ag (ppm) in silts

- >0.9 (>99th %tile)
- 0.4 to 0.9 (95-99th %tile)
- 0.3 to 0.4 (90-95th %tile)
- 0.2 to 0.3 (80-90th %tile)
- <0.2 (<80th %tile)

EM conductors (mhos)

- >100
- 50 to 100
- 10 to 50
- 1 to 10
- 0

Mineral occurrence:

- Zone examined in 2000/2002/2003
- Zone reported by Julian Mining but not yet examined
- gossan

Soil geochemical anomaly:

- related to known mineralization
- not related to known mineralization

Silt geochemistry:

- anomaly related to known mineralization
- anomaly not related to known mineralization

Resistivity low: <240 ohm-m

0 200 400 600 1000
metres

RIMFIRE MINERALS CORPORATION

THORN PROPERTY

EXPLORATION POTENTIAL

EQUITY

Date	FEB 2004	Scale	1:20,000
U.T.M. Zone	UTM8 - NAD83	Mining District	ATLIN
N.T.S.	104K/10	State/Province	BC

Figure 10