

**TRENCHING, SOIL SAMPLING,
ASSAY AND GEOLOGICAL MAPPING
AT THE LONE STAR (KLONDIKE)
PROPERTY, NTS 115 O -14**

By: T. Liverton Ph.D., C.Geol. F.G.S.

Claims:

The following groups: BAD, STAM, NUG, CHI, RED, LB, WIN, CAL, ON, JOE, RON,
DN, OYRO, ND, DE, VI, UELD, RADO, RJ, AC, CIM, SYNDICATE, KH, REX,
NUGGET, LLIB as detailed on the following pages.

Centre of claim block: 63°52'N, 139°15'W

Lonestar Gold Corp.

Field work performed from 21st September to
18th October 2011

PROPERTY DESCRIPTION AND LOCATION

The Lone Star property consists of 699 contiguous quartz claims and 14 Crown Grants centred on the Lone star mine in the historical Klondike goldfield. These cover an approximate area of 130 km². Details of claims are as follows:

Schedule " A " Claims optioned to Lonestar Gold Inc .
Ownership = KSMC 55% KGC 45 % Lonestar optioned 100 %

Grant No.	ClaimName	ClaimNo.	Claim Holder	Recorded	NTS
YC17895	BAD	1	Klondike Gold Corp. - 100%.	05/04/2000	115O14
YC17896	BAD	2	Klondike Gold Corp. - 100%.	05/04/2000	115O14
YC17897	BAD	3	Klondike Gold Corp. - 100%.	05/04/2000	115O14
YC17898	BAD	4	Klondike Gold Corp. - 100%.	05/04/2000	115O14
YC17899	BAD	5	Klondike Gold Corp. - 100%.	05/04/2000	115O14
YC17900	BAD	6	Klondike Gold Corp. - 100%.	05/04/2000	115O14
YC19901	BAD	9	Klondike Gold Corp. - 100%.	05/04/2000	115O14
YC19902	BAD	10	Klondike Gold Corp. - 100%.	05/04/2000	115O14
YC19903	BAD	11	Klondike Gold Corp. - 100%.	05/04/2000	115O14
YC19904	BAD	12	Klondike Gold Corp. - 100%.	05/04/2000	115O14
YC19905	BAD	14	Klondike Gold Corp. - 100%.	05/04/2000	115O14
YC19906	BAD	15	Klondike Gold Corp. - 100%.	05/04/2000	115O14
YC19907	BAD	16	Klondike Gold Corp. - 100%.	05/04/2000	115O14
YC19908	BAD	7	Klondike Gold Corp. - 100%.	06/04/2000	115O14
YC19909	BAD	8	Klondike Gold Corp. - 100%.	06/04/2000	115O14
YC27202	Stam	1	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27203	Stam	2	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27204	Stam	3	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27205	Stam	4	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27206	Stam	5	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27207	Stam	6	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27208	Stam	7	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27209	Stam	8	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27210	Stam	9	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27211	Stam	10	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27212	Stam	11	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27213	Stam	12	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27214	Stam	13	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27215	Stam	14	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27216	Stam	15	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27217	Stam	16	Klondike Gold Corp. - 100%.	14/08/2003	115O14

YC27218	Stam	17	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27219	Stam	18	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27220	Stam	19	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27221	Stam	20	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27222	Stam	21	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27223	Stam	22	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27224	Stam	23	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27225	Stam	24	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27226	Stam	25	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27227	Stam	26	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27228	Stam	27	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27229	Stam	28	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27230	Stam	29	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27231	Stam	30	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27232	Stam	31	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27233	Stam	32	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27234	Stam	33	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27235	Stam	34	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27236	Stam	35	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27237	Stam	36	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27238	Stam	37	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27239	Stam	38	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27240	Stam	39	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27241	Stam	40	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27242	Stam	41	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27243	Stam	42	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27244	Stam	43	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27245	Stam	44	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27246	Stam	45	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27247	Stam	46	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27248	Stam	47	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27249	Stam	48	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27250	Stam	49	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27251	Stam	50	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27252	Stam	51	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC27253	Stam	53	Klondike Gold Corp. - 100%.	14/08/2003	115O14
YC28449	Nug	1	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28450	Nug	2	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28451	Nug	3	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28452	Nug	4	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28453	Nug	5	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28454	Nug	6	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28455	Nug	7	Klondike Gold Corp. - 100%.	09/09/2003	115O14

YC28456	Nug	8	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28457	Nug	9	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28459	Chi	1	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28460	Chi	2	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28461	Chi	3	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28462	Chi	4	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28463	Chi	5	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28464	Chi	6	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28465	Chi	7	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28466	Chi	8	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28467	Chi	9	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28468	Chi	10	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28469	Chi	11	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28470	Chi	12	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28471	Chi	13	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28472	Chi	14	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28473	Red	1	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28474	Red	2	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28475	Red	3	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28476	Red	4	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28477	Red	5	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28478	Red	6	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28479	Red	7	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28480	Red	8	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28481	Red	9	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28482	Red	10	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28483	Red	11	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28484	Red	12	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28485	Red	13	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28486	Red	14	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28487	Red	15	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28488	Red	16	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28489	Red	17	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28490	Red	18	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28491	Red	19	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28492	Red	20	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28539	LB	1	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28540	LB	2	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28541	LB	3	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28542	LB	4	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28543	LB	5	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28544	LB	6	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28545	LB	7	Klondike Gold Corp. - 100%.	09/09/2003	115O14

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YC28632	LB	94	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28633	LB	95	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28634	LB	96	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28635	LB	97	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28636	LB	98	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28637	LB	99	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28638	LB	100	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28639	LB	101	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28640	LB	102	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28641	LB	103	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28642	LB	104	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28643	LB	105	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28644	LB	106	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28645	LB	107	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28646	LB	108	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28647	LB	109	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28648	LB	110	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28649	LB	111	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28650	LB	112	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28651	LB	113	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28652	LB	114	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28653	LB	115	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28654	LB	116	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28655	LB	117	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28656	LB	118	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28657	LB	119	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28658	LB	120	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28659	LB	121	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28660	LB	122	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28661	LB	123	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28662	LB	124	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28663	LB	125	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28664	LB	126	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28665	LB	127	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28666	LB	128	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28667	LB	129	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28668	LB	130	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28669	LB	131	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC28670	LB	132	Klondike Gold Corp. - 100%.	09/09/2003	115O14
YC30697	Win	1	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30698	Win	2	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30699	Win	3	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30700	Win	4	Klondike Gold Corp. - 100%.	27/04/2004	115O14

YC30701	Win	5	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30702	Win	6	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30703	Win	7	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30704	Win	8	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30705	Win	9	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30706	Win	10	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30707	Win	11	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30708	Win	12	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30709	Win	13	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30710	Win	14	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30711	Win	15	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30712	Win	16	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30713	Win	17	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30714	Win	18	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30715	Win	19	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30716	Win	20	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30717	Win	21	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30718	Win	22	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30719	Win	23	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30720	Win	24	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30721	Win	25	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30722	Win	26	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30723	Win	27	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30724	Win	28	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30725	Win	29	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30726	Win	30	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30727	Win	31	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30728	Win	32	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30729	Win	33	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30730	Win	34	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30731	Win	35	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30732	Win	36	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30733	Win	37	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30734	Win	38	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30735	Win	39	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30736	Win	40	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30737	Win	41	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30738	Win	42	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30739	Win	43	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30740	Win	44	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30741	Win	45	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30742	Win	46	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30743	Win	47	Klondike Gold Corp. - 100%.	27/04/2004	115O14

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YC30787	Win	91	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30788	Win	92	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30789	Win	93	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30790	Win	94	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30791	Win	95	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30792	Win	96	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30793	Win	97	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30794	Win	98	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30795	Win	99	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30796	Win	100	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30797	Win	101	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30798	Win	102	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30799	Win	103	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30800	Win	104	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30801	Win	105	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30802	Win	106	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30803	Win	107	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30804	Win	108	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30805	Win	109	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30806	Win	110	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30807	Win	111	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30808	Win	112	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30809	Win	113	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30810	Win	114	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30811	Win	115	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30812	Win	116	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30813	Win	117	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30814	Win	118	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30815	Win	119	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30816	Win	120	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30817	Win	121	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30818	Win	122	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30819	Win	123	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30820	Win	124	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30821	Win	125	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30822	Win	126	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30823	Win	127	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30824	Win	128	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30825	Win	129	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30826	Win	130	Klondike Gold Corp. - 100%.	27/04/2004	115O14
YC30827	Win	131	Klondike Gold Corp. - 100%.	30/04/2004	115O14
YC30828	Win	132	Klondike Gold Corp. - 100%.	30/04/2004	115O14
YC30829	Win	133	Klondike Gold Corp. - 100%.	30/04/2004	115O14

YC30830	Win	134	Klondike Gold Corp. - 100%.	30/04/2004	115O14
YC30831	Win	135	Klondike Gold Corp. - 100%.	30/04/2004	115O14
YC30832	Win	136	Klondike Gold Corp. - 100%.	30/04/2004	115O14
YC30833	Win	137	Klondike Gold Corp. - 100%.	30/04/2004	115O14
YC30834	Win	138	Klondike Gold Corp. - 100%.	30/04/2004	115O14
YC30835	Win	139	Klondike Gold Corp. - 100%.	30/04/2004	115O14
YC30836	Win	140	Klondike Gold Corp. - 100%.	30/04/2004	115O14
YC30837	Win	141	Klondike Gold Corp. - 100%.	30/04/2004	115O14
YC30838	Win	142	Klondike Gold Corp. - 100%.	30/04/2004	115O14
YC30839	Win	143	Klondike Gold Corp. - 100%.	30/04/2004	115O14
YC30840	Win	144	Klondike Gold Corp. - 100%.	30/04/2004	115O14
YC30841	Win	145	Klondike Gold Corp. - 100%.	30/04/2004	115O14
YC30842	Win	146	Klondike Gold Corp. - 100%.	30/04/2004	115O14
YC30843	Win	147	Klondike Gold Corp. - 100%.	30/04/2004	115O14
YC30844	Win	148	Klondike Gold Corp. - 100%.	30/04/2004	115O14
YC30845	Win	149	Klondike Gold Corp. - 100%.	30/04/2004	115O14
YC30846	Win	150	Klondike Gold Corp. - 100%.	30/04/2004	115O14
YC30847	Win	151	Klondike Gold Corp. - 100%.	30/04/2004	115O14
YC30848	Win	152	Klondike Gold Corp. - 100%.	30/04/2004	115O14
YC30849	Win	153	Klondike Gold Corp. - 100%.	30/04/2004	115O14
YC30850	Win	154	Klondike Gold Corp. - 100%.	30/04/2004	115O14
YC30851	Win	155	Klondike Gold Corp. - 100%.	30/04/2004	115O14
YC30852	Win	156	Klondike Gold Corp. - 100%.	30/04/2004	115O14
YC32830	Cul	1	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC32831	Cul	2	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC32832	Cul	3	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC32833	Cul	4	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC32834	Cul	5	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC32835	Cul	6	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC32836	Cul	7	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC32837	Cul	8	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC32838	Cul	9	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC32839	Cul	10	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC32840	Cul	11	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC32841	Cul	12	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC32842	Cul	13	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC32843	Cul	14	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC32844	Cul	19	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC32845	Cul	20	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC32846	Cul	21	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC32847	Cul	22	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC32848	Cul	23	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC32849	Cul	24	Klondike Gold Corp. - 100%.	09/06/2004	115O14

YC32850	Cul	25	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC32851	Cul	26	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC32852	Cul	27	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC32853	Cul	28	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC32864	Cal	1	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC32865	Cal	2	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC32866	Cal	3	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC32867	Cal	4	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC32868	Cal	5	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC32877	Cal	19	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC32879	Cal	21	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC32881	Cal	23	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC32883	Cal	25	Klondike Gold Corp. - 100%.	09/06/2004	115O14
YC33726	On	1	Klondike Gold Corp. - 100%.	17/06/2004	115O14
YC33727	On	2	Klondike Gold Corp. - 100%.	17/06/2004	115O14

Y 65536	Joe	1	Arbor Resources Inc. - 100%.	23/05/1972	115O14
Y 65537	Joe	2	Arbor Resources Inc. - 100%.	23/05/1972	115O14
Y 65538	Joe	3	Arbor Resources Inc. - 100%.	23/05/1972	115O14
Y 65539	Joe	4	Arbor Resources Inc. - 100%.	23/05/1972	115O14
Y 99613	Joe	5	Arbor Resources Inc. - 100%.	26/05/1975	115O14
Y 99614	Joe	6	Arbor Resources Inc. - 100%.	26/05/1975	115O14
Y 99615	Joe	7	Arbor Resources Inc. - 100%.	26/05/1975	115O14
Y 99616	Joe	8	Arbor Resources Inc. - 100%.	26/05/1975	115O14
Y 99617	Joe	9	Arbor Resources Inc. - 100%.	26/05/1975	115O14
Y 99618	Joe	10	Arbor Resources Inc. - 100%.	26/05/1975	115O14
YA10300	Ron	1	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10301	Ron	2	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10302	Ron	3	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10303	Ron	4	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10304	Ron	5	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10305	Ron	6	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10306	Ron	7	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10307	Ron	8	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10308	Ron	9	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10309	Ron	10	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10310	Ron	11	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10311	Ron	12	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10312	Ron	13	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10313	Ron	14	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10314	Ron	15	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10315	Ron	16	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10316	Ron	17	Arbor Resources Inc. - 100%.	08/07/1977	115O14

YA10317	Ron	18	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10318	Ron	19	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10319	Ron	20	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10320	Ron	21	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10321	Ron	22	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10322	Ron	23	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10323	Ron	24	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10324	Ron	25	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10325	Ron	26	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10326	Ron	27	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10327	Ron	28	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10328	Ron	29	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10329	Ron	30	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10330	Ron	31	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10331	Ron	32	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10332	Ron	33	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10333	Ron	34	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10334	Ron	35	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10335	Ron	36	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10336	Ron	37	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10337	Ron	38	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10338	Ron	39	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA10339	Ron	40	Arbor Resources Inc. - 100%.	08/07/1977	115O14
YA32783	DN	1	Arbor Resources Inc. - 100%.	06/07/1979	115O14
YA32784	DN	2	Arbor Resources Inc. - 100%.	06/07/1979	115O14
YA32828	Oyro		Arbor Resources Inc. - 100%.	18/07/1979	115O14
YA32946	DN	11	Arbor Resources Inc. - 100%.	07/08/1979	115O14
YA32947	DN	12	Arbor Resources Inc. - 100%.	07/08/1979	115O14
YA32948	DN	13	Arbor Resources Inc. - 100%.	07/08/1979	115O14
YA32949	DN	14	Arbor Resources Inc. - 100%.	07/08/1979	115O14
YA32950	DN	15	Arbor Resources Inc. - 100%.	07/08/1979	115O14
YA32951	DN	16	Arbor Resources Inc. - 100%.	07/08/1979	115O14
YA32952	DN	17	Arbor Resources Inc. - 100%.	07/08/1979	115O14
YA32953	DN	18	Arbor Resources Inc. - 100%.	07/08/1979	115O14
YA32954	DN	19	Arbor Resources Inc. - 100%.	07/08/1979	115O14
YA32955	DN	20	Arbor Resources Inc. - 100%.	07/08/1979	115O14
YA32956	DN	21	Arbor Resources Inc. - 100%.	07/08/1979	115O14
YA32957	DN	22	Arbor Resources Inc. - 100%.	07/08/1979	115O14
YA32958	DN	23	Arbor Resources Inc. - 100%.	07/08/1979	115O14
YA32959	DN	24	Arbor Resources Inc. - 100%.	07/08/1979	115O14
YA32960	DN	25	Arbor Resources Inc. - 100%.	07/08/1979	115O14
YA32961	DN	26	Arbor Resources Inc. - 100%.	07/08/1979	115O14
YA47082	DN	10	Arbor Resources Inc. - 100%.	08/08/1979	115O14

YA47083	DN	27	Arbor Resources Inc. - 100%.	08/08/1979	115O14
YA47084	DN	28	Arbor Resources Inc. - 100%.	08/08/1979	115O14
YA47085	DN	29	Arbor Resources Inc. - 100%.	08/08/1979	115O14
YA47086	DN	30	Arbor Resources Inc. - 100%.	08/08/1979	115O14
YA47087	DN	31	Arbor Resources Inc. - 100%.	08/08/1979	115O14
YA47088	DN		Arbor Resources Inc. - 100%.	08/08/1979	115O14
YA47089	ND		Arbor Resources Inc. - 100%.	08/08/1979	115O14
YA47090	DN	1	Arbor Resources Inc. - 100%.	09/08/1979	115O14
YA47091	DN	2	Arbor Resources Inc. - 100%.	09/08/1979	115O14
YA47604	DN	32	Arbor Resources Inc. - 100%.	14/09/1979	115O14
YA47605	DN	33	Arbor Resources Inc. - 100%.	14/09/1979	115O14
YA47890	DN	3	Arbor Resources Inc. - 100%.	11/10/1979	115O14
YA47891	DN	4	Arbor Resources Inc. - 100%.	11/10/1979	115O14
YA47892	DN	5	Arbor Resources Inc. - 100%.	11/10/1979	115O14
YA47893	DN	6	Arbor Resources Inc. - 100%.	11/10/1979	115O14
YA47894	DN	7	Arbor Resources Inc. - 100%.	11/10/1979	115O14
YA47895	DN	8	Arbor Resources Inc. - 100%.	11/10/1979	115O14
YA47896	DN	9	Arbor Resources Inc. - 100%.	11/10/1979	115O14
YA49724	ND	1	Arbor Resources Inc. - 100%.	16/05/1980	115O14
YA49725	ND	2	Arbor Resources Inc. - 100%.	16/05/1980	115O14
YA49726	ND	3	Arbor Resources Inc. - 100%.	16/05/1980	115O14
YA49727	ND	4	Arbor Resources Inc. - 100%.	16/05/1980	115O14
YA49728	ND	5	Arbor Resources Inc. - 100%.	16/05/1980	115O14
YA49729	ND	6	Arbor Resources Inc. - 100%.	16/05/1980	115O14
YA49730	ND	7	Arbor Resources Inc. - 100%.	16/05/1980	115O14
YA49731	ND	8	Arbor Resources Inc. - 100%.	16/05/1980	115O14
YA49732	ND	9	Arbor Resources Inc. - 100%.	16/05/1980	115O14
YA49733	ND	10	Arbor Resources Inc. - 100%.	16/05/1980	115O14
YA49734	ND	11	Arbor Resources Inc. - 100%.	16/05/1980	115O14
YA49735	ND	12	Arbor Resources Inc. - 100%.	16/05/1980	115O14
YA49736	ND	13	Arbor Resources Inc. - 100%.	16/05/1980	115O14
YA49737	ND	14	Arbor Resources Inc. - 100%.	16/05/1980	115O14
YA49738	ND	15	Arbor Resources Inc. - 100%.	16/05/1980	115O14
YA49739	ND	16	Arbor Resources Inc. - 100%.	16/05/1980	115O14
YA49740	ND	17	Arbor Resources Inc. - 100%.	16/05/1980	115O14
YA49741	ND	18	Arbor Resources Inc. - 100%.	16/05/1980	115O14
YA49742	ND	19	Arbor Resources Inc. - 100%.	16/05/1980	115O14
YA49743	ND	20	Arbor Resources Inc. - 100%.	16/05/1980	115O14
YA49744	ND	21	Arbor Resources Inc. - 100%.	16/05/1980	115O14
YA49745	ND	22	Arbor Resources Inc. - 100%.	16/05/1980	115O14
YA55250	DE	1	Arbor Resources Inc. - 100%.	24/04/1981	115O14
YA55251	DE	2	Arbor Resources Inc. - 100%.	24/04/1981	115O14
YA55252	DE	3	Arbor Resources Inc. - 100%.	24/04/1981	115O14

YA55253	DE	4	Arbor Resources Inc. - 100%.	24/04/1981	115O14
YA55254	DE	5	Arbor Resources Inc. - 100%.	24/04/1981	115O14
YA55255	DE	6	Arbor Resources Inc. - 100%.	24/04/1981	115O14
YA55256	DE	7	Arbor Resources Inc. - 100%.	24/04/1981	115O14
YA55257	DE	8	Arbor Resources Inc. - 100%.	24/04/1981	115O14
YA55258	DE	9	Arbor Resources Inc. - 100%.	24/04/1981	115O14
YA55259	DE	10	Arbor Resources Inc. - 100%.	24/04/1981	115O14
YA55260	DE	11	Arbor Resources Inc. - 100%.	24/04/1981	115O14
YA55261	DE	12	Arbor Resources Inc. - 100%.	24/04/1981	115O14
YA55262	DE	13	Arbor Resources Inc. - 100%.	24/04/1981	115O14
YA55263	DE	14	Arbor Resources Inc. - 100%.	24/04/1981	115O14
YA55285	VI	1	Arbor Resources Inc. - 100%.	22/05/1981	115O14
YA55286	VI	2	Arbor Resources Inc. - 100%.	22/05/1981	115O14
YA55287	VI	3	Arbor Resources Inc. - 100%.	22/05/1981	115O14
YA55288	VI	4	Arbor Resources Inc. - 100%.	22/05/1981	115O14
YA55295	VI	11	Arbor Resources Inc. - 100%.	22/05/1981	115O14
YB38769	UELD	2	Arbor Resources Inc. - 100%.	12/09/1990	115O14
YB38768	UELD	1	Arbor Resources Inc. - 100%.	12/09/1990	115O14
YB17193	Rado	187	Arbor Resources Inc. - 100%.	17/06/1988	115O14
YB17192	Rado	186	Arbor Resources Inc. - 100%.	17/06/1988	115O14
YB17190	Rado	183	Arbor Resources Inc. - 100%.	17/06/1988	115O14
YB17189	Rado	182	Arbor Resources Inc. - 100%.	17/06/1988	115O14
YB17188	Rado	181	Arbor Resources Inc. - 100%.	17/06/1988	115O14
YB17187	Rado	180	Arbor Resources Inc. - 100%.	17/06/1988	115O14
YB17186	Rado	179	Arbor Resources Inc. - 100%.	17/06/1988	115O14
YB17069	Rado	58	Arbor Resources Inc. - 100%.	17/06/1988	115O14
YB17068	Rado	57	Arbor Resources Inc. - 100%.	17/06/1988	115O14
YB17067	Rado	56	Arbor Resources Inc. - 100%.	17/06/1988	115O14
YB17066	Rado	55	Arbor Resources Inc. - 100%.	17/06/1988	115O14
YA55296	VI	12	Arbor Resources Inc. - 100%.	22/05/1981	115O14
YA64216	RJ	1	Arbor Resources Inc. - 100%.	21/07/1981	115O14
YA64217	RJ	2	Arbor Resources Inc. - 100%.	21/07/1981	115O14
YA64218	RJ	3	Arbor Resources Inc. - 100%.	21/07/1981	115O14
YA64219	RJ	4	Arbor Resources Inc. - 100%.	21/07/1981	115O14
YA64220	RJ	5	Arbor Resources Inc. - 100%.	21/07/1981	115O14
YA64221	RJ	6	Arbor Resources Inc. - 100%.	21/07/1981	115O14
YA64222	RJ	7	Arbor Resources Inc. - 100%.	21/07/1981	115O14
YA64223	RJ	8	Arbor Resources Inc. - 100%.	21/07/1981	115O14
YA64224	RJ	9	Arbor Resources Inc. - 100%.	21/07/1981	115O14
YA64225	RJ	10	Arbor Resources Inc. - 100%.	21/07/1981	115O14
YA64226	RJ	11	Arbor Resources Inc. - 100%.	21/07/1981	115O14
YA64227	RJ	12	Arbor Resources Inc. - 100%.	21/07/1981	115O14
YA64228	RJ	13	Arbor Resources Inc. - 100%.	21/07/1981	115O14

YA64229	RJ	14	Arbor Resources Inc. - 100%.	21/07/1981	115O14
YA64230	RJ	15	Arbor Resources Inc. - 100%.	21/07/1981	115O14
YA64231	RJ	16	Arbor Resources Inc. - 100%.	21/07/1981	115O14
YA64232	RJ	17	Arbor Resources Inc. - 100%.	21/07/1981	115O14
YA64233	RJ	18	Arbor Resources Inc. - 100%.	21/07/1981	115O14
YA64234	RJ	19	Arbor Resources Inc. - 100%.	21/07/1981	115O14
YA64235	RJ	20	Arbor Resources Inc. - 100%.	21/07/1981	115O14
YA64236	RJ	21	Arbor Resources Inc. - 100%.	21/07/1981	115O14
YA64237	RJ	22	Arbor Resources Inc. - 100%.	21/07/1981	115O14
YA64238	RJ	23	Arbor Resources Inc. - 100%.	21/07/1981	115O14
YA64239	RJ	24	Arbor Resources Inc. - 100%.	21/07/1981	115O14
YA64240	RJ	25	Arbor Resources Inc. - 100%.	21/07/1981	115O14
YA64241	RJ	26	Arbor Resources Inc. - 100%.	21/07/1981	115O14
YA64242	RJ	27	Arbor Resources Inc. - 100%.	21/07/1981	115O14
YA64243	RJ	28	Arbor Resources Inc. - 100%.	21/07/1981	115O14
YA64244	RJ	29	Arbor Resources Inc. - 100%.	21/07/1981	115O14
YA64245	RJ	30	Arbor Resources Inc. - 100%.	21/07/1981	115O14
YA64246	RJ	31	Arbor Resources Inc. - 100%.	21/07/1981	115O14
YA64247	RJ	32	Arbor Resources Inc. - 100%.	21/07/1981	115O14
YA64276	AC	7	Arbor Resources Inc. - 100%.	05/08/1981	115O14
YA64277	AC	8	Arbor Resources Inc. - 100%.	05/08/1981	115O14
YA64278	AC	9	Arbor Resources Inc. - 100%.	05/08/1981	115O14
YA64279	AC	10	Arbor Resources Inc. - 100%.	05/08/1981	115O14
YA64281	AC	11	Arbor Resources Inc. - 100%.	05/08/1981	115O14
YA64519	CIM	2	Arbor Resources Inc. - 100%.	01/09/1981	115O14
YA64520	CIM	1	Arbor Resources Inc. - 100%.	01/09/1981	115O14
YA64521	CIM	4	Arbor Resources Inc. - 100%.	01/09/1981	115O14
YA64522	CIM	3	Arbor Resources Inc. - 100%.	01/09/1981	115O14
YA65523	VI	16	Arbor Resources Inc. - 100%.	20/05/1983	115O14
YA65525	VI	18	Arbor Resources Inc. - 100%.	20/05/1983	115O14
YA65550	VI	43	Arbor Resources Inc. - 100%.	20/05/1983	115O14
YA65551	VI	44	Arbor Resources Inc. - 100%.	20/05/1983	115O14
YA65605	RJ	49	Arbor Resources Inc. - 100%.	02/06/1983	115O14
YA65606	RJ	50	Arbor Resources Inc. - 100%.	02/06/1983	115O14
YA65615	RJ	59	Arbor Resources Inc. - 100%.	02/06/1983	115O14
YA65616	RJ	60	Arbor Resources Inc. - 100%.	02/06/1983	115O14
YA65618	RJ	62	Arbor Resources Inc. - 100%.	02/06/1983	115O14
YA65629	AC	14	Arbor Resources Inc. - 100%.	02/06/1983	115O14
YA65631	AC	16	Arbor Resources Inc. - 100%.	02/06/1983	115O14
YA65632	AC	17	Arbor Resources Inc. - 100%.	02/06/1983	115O14
YA65633	AC	18	Arbor Resources Inc. - 100%.	02/06/1983	115O14
YA65634	AC	19	Arbor Resources Inc. - 100%.	02/06/1983	115O14
YA65635	AC	20	Arbor Resources Inc. - 100%.	02/06/1983	115O14

YA65636	AC	21	Arbor Resources Inc. - 100%.	02/06/1983	115O14
YA65637	AC	22	Arbor Resources Inc. - 100%.	02/06/1983	115O14
YA65638	AC	23	Arbor Resources Inc. - 100%.	02/06/1983	115O14
YA65640	AC	25	Arbor Resources Inc. - 100%.	02/06/1983	115O14
YA65641	AC	26	Arbor Resources Inc. - 100%.	02/06/1983	115O14
YA79245	Syndicate	48	Arbor Resources Inc. - 100%.	16/09/1983	115O14
YA79250	Syndicate	53	Arbor Resources Inc. - 100%.	16/09/1983	115O14
YA79251	Syndicate	54	Arbor Resources Inc. - 100%.	16/09/1983	115O14
YA79252	Syndicate	55	Arbor Resources Inc. - 100%.	16/09/1983	115O14
YA79253	Syndicate	56	Arbor Resources Inc. - 100%.	16/09/1983	115O14
YA79257	Syndicate	60	Arbor Resources Inc. - 100%.	16/09/1983	115O14
YA79258	Syndicate	61	Arbor Resources Inc. - 100%.	16/09/1983	115O14
YA79259	Syndicate	62	Arbor Resources Inc. - 100%.	16/09/1983	115O14
YA79260	Syndicate	63	Arbor Resources Inc. - 100%.	16/09/1983	115O14
YA79263	Syndicate	66	Arbor Resources Inc. - 100%.	16/09/1983	115O14
YA79264	Syndicate	67	Arbor Resources Inc. - 100%.	16/09/1983	115O14
YA79265	Syndicate	68	Arbor Resources Inc. - 100%.	16/09/1983	115O14
YA79266	Syndicate	69	Arbor Resources Inc. - 100%.	16/09/1983	115O14
YA79268	Syndicate	71	Arbor Resources Inc. - 100%.	16/09/1983	115O14
YA79269	Syndicate	72	Arbor Resources Inc. - 100%.	16/09/1983	115O14
YA79270	Syndicate	73	Arbor Resources Inc. - 100%.	16/09/1983	115O14
YA79271	Syndicate	74	Arbor Resources Inc. - 100%.	16/09/1983	115O14
YA79274	Syndicate	77	Arbor Resources Inc. - 100%.	16/09/1983	115O14
YA79275	Syndicate	78	Arbor Resources Inc. - 100%.	16/09/1983	115O14
YA79276	Syndicate	79	Arbor Resources Inc. - 100%.	16/09/1983	115O14
YA79277	Syndicate	80	Arbor Resources Inc. - 100%.	16/09/1983	115O14
YA79278	Syndicate	81	Arbor Resources Inc. - 100%.	16/09/1983	115O14
YA79279	Syndicate	82	Arbor Resources Inc. - 100%.	16/09/1983	115O14
YA79280	Syndicate	83	Arbor Resources Inc. - 100%.	16/09/1983	115O14
YA80506	KH	1	Arbor Resources Inc. - 100%.	18/06/1984	115O14
YA80507	KH	2	Arbor Resources Inc. - 100%.	18/06/1984	115O14
YA80508	KH	3	Arbor Resources Inc. - 100%.	18/06/1984	115O14
YA80509	KH	4	Arbor Resources Inc. - 100%.	18/06/1984	115O14
YA80510	KH	5	Arbor Resources Inc. - 100%.	18/06/1984	115O14
YA80511	KH	6	Arbor Resources Inc. - 100%.	18/06/1984	115O14
YA80512	KH	7	Arbor Resources Inc. - 100%.	18/06/1984	115O14
YA80513	KH	8	Arbor Resources Inc. - 100%.	18/06/1984	115O14
YA80514	KH	9	Arbor Resources Inc. - 100%.	18/06/1984	115O14
YA80515	KH	10	Arbor Resources Inc. - 100%.	18/06/1984	115O14
YA84204	Rex	22	Arbor Resources Inc. - 100%.	10/07/1984	115O14
YA84206	Rex	24	Arbor Resources Inc. - 100%.	10/07/1984	115O14
YA84208	Rex	26	Arbor Resources Inc. - 100%.	10/07/1984	115O14
YA84210	Rex	28	Arbor Resources Inc. - 100%.	10/07/1984	115O14

YA84212	Rex	30	Arbor Resources Inc. - 100%.	10/07/1984	115O14
YA84213	Rex	31	Arbor Resources Inc. - 100%.	10/07/1984	115O14
YA84218	Rex	36	Arbor Resources Inc. - 100%.	10/07/1984	115O14
YA84219	Rex	37	Arbor Resources Inc. - 100%.	10/07/1984	115O14
YA84220	Rex	38	Arbor Resources Inc. - 100%.	10/07/1984	115O14
YA84221	Rex	39	Arbor Resources Inc. - 100%.	10/07/1984	115O14
YA84222	Rex	40	Arbor Resources Inc. - 100%.	10/07/1984	115O14
YA84223	Rex	41	Arbor Resources Inc. - 100%.	10/07/1984	115O14
YA88228	Nugget	1	Arbor Resources Inc. - 100%.	14/10/1986	115O14
YA88229	Nugget	2	Arbor Resources Inc. - 100%.	14/10/1986	115O14
YA88230	Nugget	3	Arbor Resources Inc. - 100%.	14/10/1986	115O14
YA88231	Nugget	4	Arbor Resources Inc. - 100%.	14/10/1986	115O14
YA88232	Nugget	5	Arbor Resources Inc. - 100%.	14/10/1986	115O14
YA88233	Nugget	6	Arbor Resources Inc. - 100%.	14/10/1986	115O14
YA88234	Nugget	7	Arbor Resources Inc. - 100%.	14/10/1986	115O14
YA88235	Nugget	8	Arbor Resources Inc. - 100%.	14/10/1986	115O14
YA88236	Nugget	9	Arbor Resources Inc. - 100%.	14/10/1986	115O14
YA88237	Nugget	10	Arbor Resources Inc. - 100%.	14/10/1986	115O14
YC64000	LLIB	1	Klondike Star Mineral Corporation - 100%.	16/07/2008	115O14
YC75501	LLIB	2	Klondike Star Mineral Corporation - 100%.	16/07/2008	115O14
YC75502	LLIB	3	Klondike Star Mineral Corporation - 100%.	16/07/2008	115O14
YC75503	LLIB	4	Klondike Star Mineral Corporation - 100%.	16/07/2008	115O14
YC75504	LLIB	5	Klondike Star Mineral Corporation - 100%.	16/07/2008	115O14
YC75505	LLIB	6	Klondike Star Mineral Corporation - 100%.	16/07/2008	115O14

Lone Star Property Crown Granted Mineral Claims

Claim Name	Lot No.	Acres	Group	Plan No.	Year of Survey	Dominion Land Surveyor
Yankee Girl	105	47.18	1052	8938	1901	Edwards, G.
Esther Edna	106	42.02	1052	8939	1901	Edwards, G.
New Bonanza	408	43.2	1052	10565	1909	Barwell, C.S.W.
Niobe	409	5.5	1052	10565	1909	Barwell, C.S.W.
Lone Star	410	41.2	1052	10565	1909	Barwell, C.S.W.
Zulu Chief	411	33.4	1052	10565	1909	Barwell, C.S.W.
Victoria	86		1052	6429	1901	Barwell, C.S.W.
Porphyry Lode	104	41.72	1052	8939	1901	Edwards, G.
Swastika	533		1052	22086	1937	Dickson, H.G.

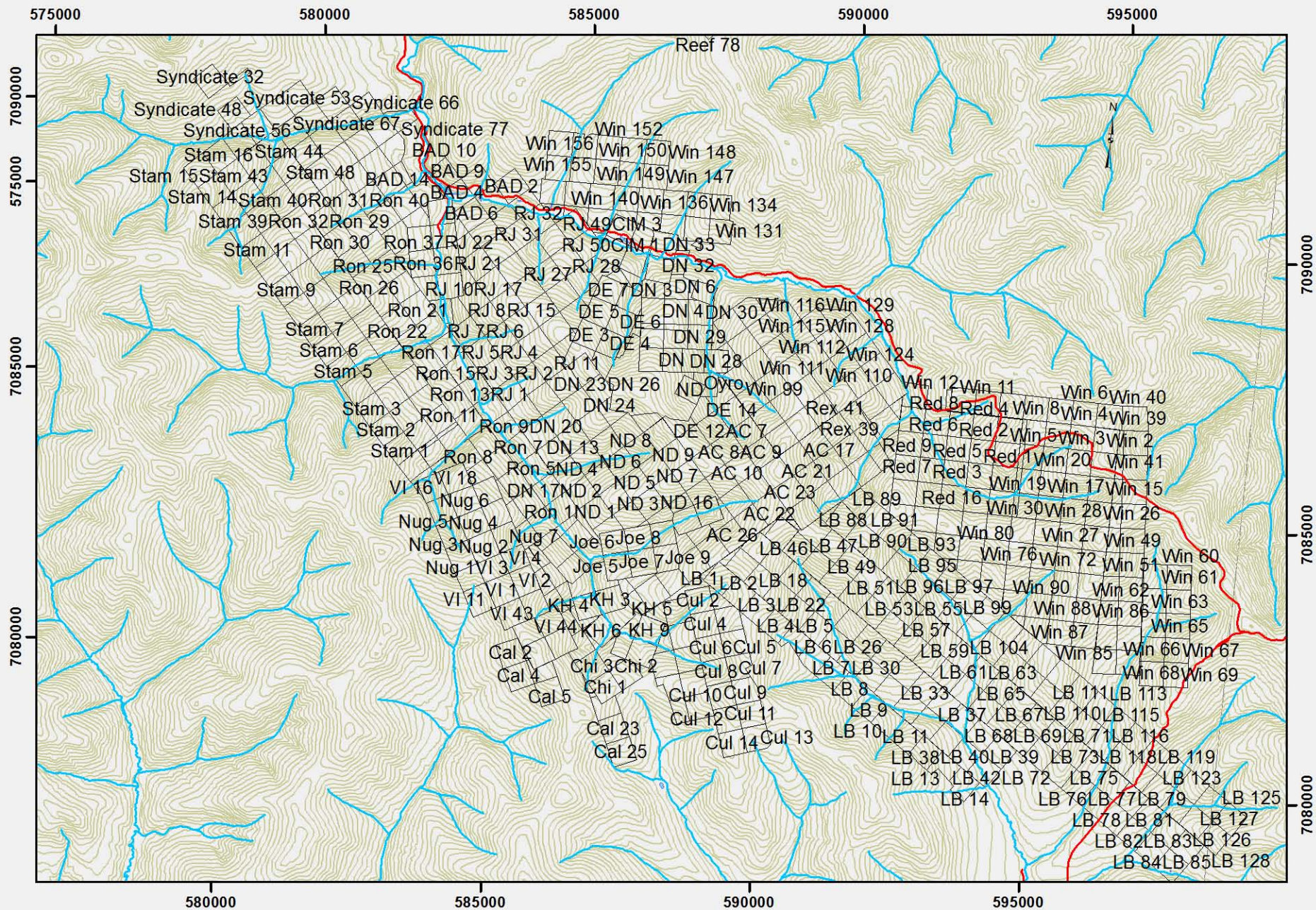
Udas	534		1052	22086	1937	Dickson, H.G.
Cato	535		1052	22086	1937	Dickson, H.G.
Thistle	536		1052	22086	1937	Dickson, H.G.
New Bonanza #2	424	51.5	1052	10595	1909	Gibbon, J.
Argyle	223	43.35	1052	6575	1902	Fawcett, A.

Notes:

These claims have been legally surveyed ca. 1901-1937

The grants are registered in the name of Arbor Resources.

The Argyle claim is separate from the others - it lies at the junction of Adams Gulch and Bonanza creek & is overlain by Class A land claims



Lone Star property - claims

Zone 7, Wad 83, Yukon Albers Projection

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APPENDICES

Appendix 1.

S. Frizzi: Trench sampling Campaign at
“Nugget” Zone

Appendix 2.

J.K. Mortensen: Lithogeochemical Studies of Gold-
Bearing Felsic Schist Units in the Boulder Lode Area,
Lone Star Ridge

Appendix 3.

J.K. Mortensen: Geology and Gold Mineralization
in the Lone Star Ridge and Eldorado Creek Areas and
Recommendations for Exploration

Appendix 4.

Assay certificates

Note: all UTM coordinates are Nad83, zone 7

SUMMARY

The Lone Star property covers the historical region of the Klondike Gold Rush. The claims extend from the Violet mine in the west over the ridge that contains the Lone Star mine between Eldorado and Bonanza Creeks and southeast from Adams Gulch to Quartz Creek (Fig. 1).

2011 WORK

The 2011 work on the Lone Star claim block consisted of four separate work programmes:

- a) Backhoe trenching at 90° to two existing trenches and exposure of a 6m vertical section in the Boulder lode area to investigate the relationship of structure to gold grade;
- b) Enlarging trenches and channel sampling in the Nugget zone to investigate sampling strategy;
- c) Sampling along the Ridge road from near Grand Forks to the Calder Summit ridge to obtain C-horizon soil and corresponding rock samples.

TABLE 1 GEOCHEMICAL SAMPLING SUMMARY

AREA	SAMPLE TYPE	NUMBER	ANALYSIS
Tr 87-16	Rock channel	34	~~Multi-element &~~ Au
Bulk 06-02	Rock channel	16	~~Multi-element &~~ Au
Nugget	Rock channel	45	~~Multi-element &~~ Au
Ridge road	C-horizon soil	139	Multi-element & Au

- d) A reinterpretation of trace element analyses from the 2005 drilling has been made by Professor J.K. Mortensen. Various lithological units may be 'fingerprinted' and the method shows promise as a detailed mapping tool.

The first work was performed within the existing Lone Star Crown Grants and is included here to record the geological information and to provide an introduction for the planned 2012 work. The Nugget zone and Ridge road sampling is reported here as the 2011 assessment work. Separate reports by Professor J.K. Mortensen and Sandro Frizzi are appended.

ACCESSIBILITY, CLIMATE, INFRASTRUCTURE AND PHYSIOGRAPHY

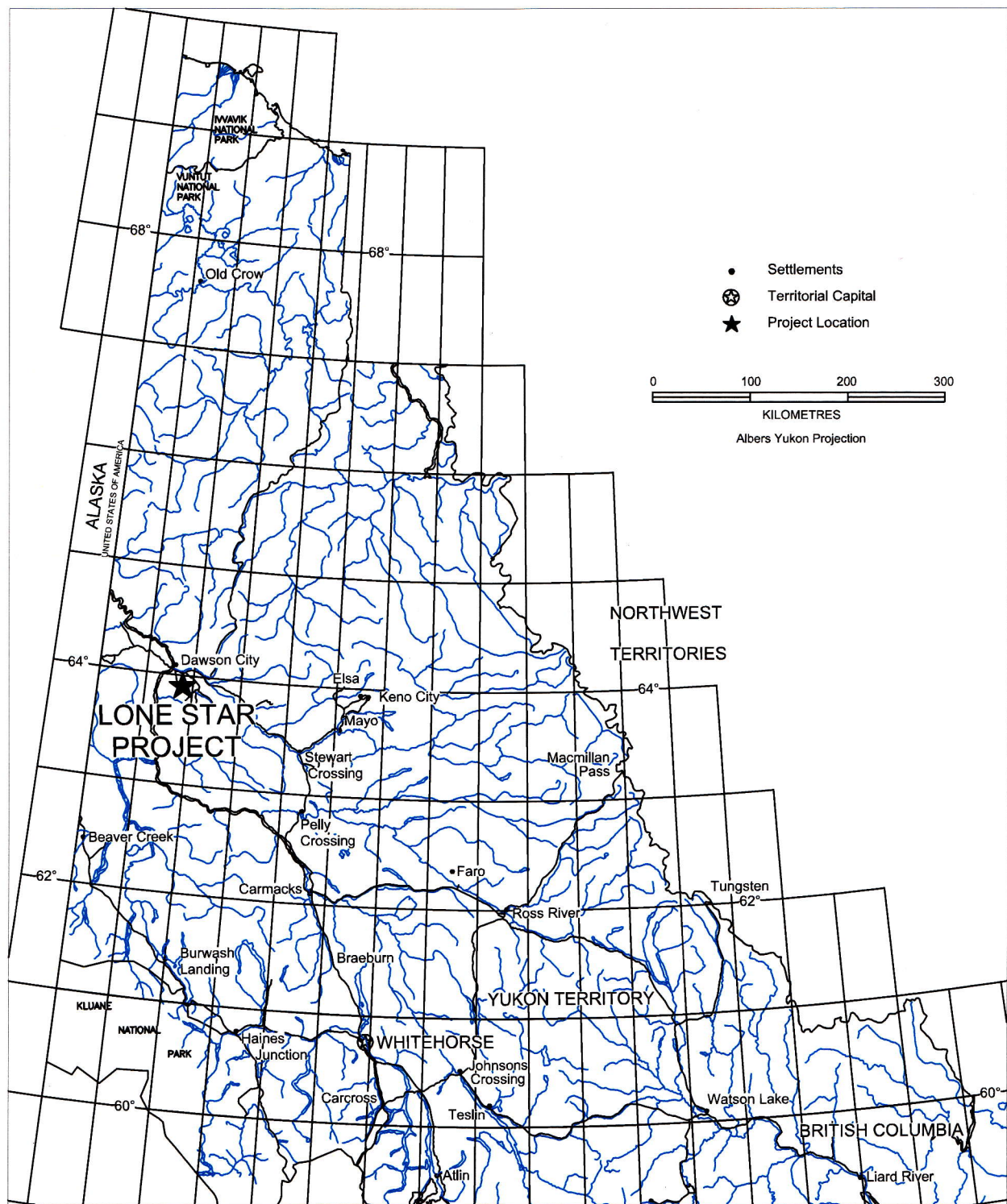
The Klondike region consists of rugged topography of rounded hills and V-section valleys since this region was not recently glaciated (Nelson and Jackson, 2003). The hills have therefore a more subdued profile than the eastern Yukon, with cliffs being only prominent along the Yukon River valley. Weathering of the region has had a lengthy history, resulting in few natural fresh rock exposures and weathering profiles that may reach 10m depth.

Dawson City is on the Yukon River at 1050' (320m) elevation and the highest peak on the claim block, Eldorado Dome is at 1175m. The immediate environs of the claims have been historically denuded of large timber by cutting either to supply mines and fuel boilers or by forest fires and is now covered by regrowth of spruce, poplar, birch and alder. Only the very highest ridges are covered by dwarf willow & birch ("buckbrush").

The Klondike Gold Fields have been the target of prospectors and placer gold miners since 1896. The region therefore, is very accessible by road and trail. Dawson City is approximately 480 km from Whitehorse along the Klondike Highway which is now a completely sealed two-lane road. A 5000'x100' gravel surface, lighted Yukon Government airfield at 1214' (370m) elevation serves Dawson. A gravel airstrip at 2100' (640m) elevation suitable for light STOL aircraft with approximately 800' useable exists on the claim block at Eldorado Creek. Dawson is served by a scheduled service of twin-engined aircraft from Whitehorse and by highway there are regular freight services. Dawson City offers normal town facilities such as hotels, restaurants, grocery, clothing and hardware stores, garage and engineering supplies and has two bulk fuel depots.

The major valleys (Bonanza and Hunker Creeks) have summer maintained graded gravel roads linking with the Klondike Highway. Eldorado Creek has a gravel mining road (approximately 26 km to the airstrip from Dawson) and many ridges are traversed by four wheel drive trails. Access roads to Quartz Creek and the Indian River or Sulphur Creek to Granville are mostly maintained by the placer miners and their condition varies according to the weather.

The climate is sub-arctic, with a comparatively low annual precipitation. The workable summer season extends from late May until mid October, by which time nightly temperatures are below freezing and there are a few centimetres of snow remaining on the ground. Winter temperatures may drop to at least -40°C for up to six weeks in January and February, although during the past seven years there have been generally more milder winters. Summer rainfall is highly variable and unpredictable, with some years being sufficiently dry to cause water supply problems for placer mining operations. Water supply for camp is available from an excellent spring 1 km higher up the valley than the old Klondike Star camp site.



KLONDIKE STAR MINERAL CORP.

Lone Star Project Location Map

SCALE: 1 : 6,000,000

DATE: OCTOBER 15, 2007

FIGURE 1

AGREEMENTS

Klondike Gold Corp. originally held 100% interest in the Lone Star claims and crown grants. Under an earn-in agreement Klondike Star Mineral Corp. carried out the 2005-2008 exploration and earned a 55% beneficial interest. The two companies have agreed to combine their interests and collectively grant an option to Lonestar gold Corp., who commenced exploration work on the property in September 2011.

Lonestar Gold Corp. is the operator of the project. Lonestar earns a 50% property interest by spending \$2,750,000 on work commitments over 2 years and issuing \$ 2,750,000 worth of its shares to the Optionor. The price of the shares issued is deemed to be the same price as the shares that are issued to finance the work commitment. After the 50% interest has been earned Lonestar gold may continue to exercise the rest of the option and acquire up to 100%, or it may call a joint venture with Klondike Gold Corp. or Klondike Star Mineral Corp. Lonestar will remain the operator.

PERMITS IN PLACE

A No. 3 Land Use Permit is in place to cover exploration activity and a water licence is in place to cover the use of creek water to supply the bulk test mill.

INTRODUCTION

Prospecting for the hard-rock source of the Klondike placer deposits has been ongoing since 1898. The Violet and Lone Star mines were in operation from approximately 2011 until the outbreak of the First World War, but no hard-rock gold production has taken place since. The Lone Star ridge is the obvious place to search for lode gold since it separates the two most productive placer-bearing creeks of the Klondike: Bonanza and Eldorado. Recent research (Chapman et al., 2010) has shown that the placer gold was indeed derived from adjacent ridges. The Lone Star ridge has been investigated by various large exploration efforts involving geochemistry, geophysics and drilling since 1986. Only since 2004 has any effort been made to understand the structural setting of the mineralization. Assessment reports by Klondike Star mineral Corp. are listed in the bibliography. During 2009-2010 the property remained idle and some work was commenced by Lone Star Gold Corp. late in the 2011 season. This work which was mainly aimed at testing sampling techniques at Lone Star is reported herein. A new soil geochemical sampling programme was also commenced and this effort produced five areas that are anomalous in gold and which deserve follow-up work in 2012. This sampling, plus trenching and channel sampling at the Nugget zone are presented here as assessment work. Details of the Lone Star work are included to provide documentation of our current knowledge of the property, but that work is not admissible as assessment.

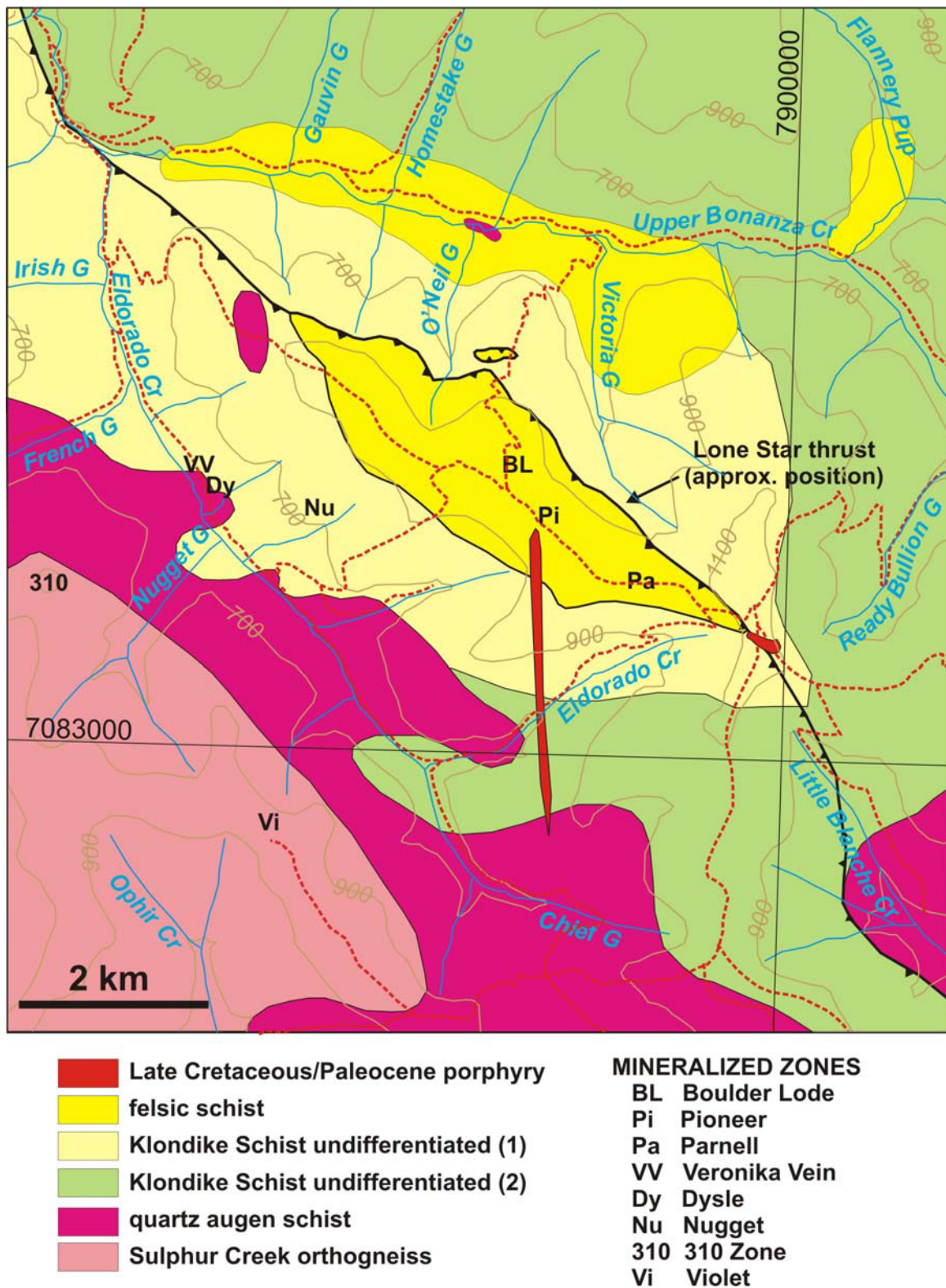


Figure 2. Simplified geological map of the Lone Star property, showing the main distribution of lithological assemblages and locations of main gold-bearing zones.

GEOLOGY OF THE LONE STAR RIDGE

A summary of the geology of the Lone Star mine area follows. More extensive discussions are found in the published papers and assessment reports listed in the bibliography.

The Bonanza-Eldorado-Hunker region is underlain by the Klondike Schist, which is correlated with units of the Yukon-Tanana terrane which extends from Alaska to the southern Yukon and B.C. The Yukon-Tanana terrane is now considered to include those Devonian-Mississippian strata of continental affinity which are overlain by volcanic arc successions that include backarc and island arc tectonic. These units are now polydeformed and, over a regional scale, show a range of metamorphic grade from lower greenschist to amphibolite and have been intruded by Mississippian to Permian granitoids

The northwestern Klondike area is underlain by three recognisable thrust fault bounded assemblages that constitute the mid Permian Klondike Schist. Assemblage I consists of three units: quartz augen schist; the Sulphur Creek orthogneiss; and intercalated chloritic schist, metagabbro, amphibolite, quartzite and felsic schist, which crops out in the Lone Star area.

Table 2: Summary comparison of thrust slices (in relative structural order) in the Klondike area relevant to gold exploration (based on field observations and discussions with Jim Mortensen).

Thrust slice	Rocks	Metamorphic grade	Textural reconstitution	Metamorphic structures	Late metamorphic folds
Klondike Schist (may include 2-3 slices)	Micaceous schist, quartzofeldspathic schist	Upper greenschist facies (biotite zone)	Pervasive recrystallisation, coarse metamorphic grain size	Pervasive coarse mica foliation, strong metamorphic segregation,	Common, spaced micaceous cleavage, abundant mica recrystallisation
Nasina Schist	Dark (graphitic?) micaceous schist	Middle greenschist facies	Pervasive recrystallisation, fine metamorphic grain size	Pervasive slaty foliation, weak metamorphic segregation	Common, spaced fracture cleavage, minimal mica recrystallisation
Greenstones	Metabasic rocks	Lower greenschist facies	Variable recrystallisation, fine metamorphic grain size	Minor foliation development	None?

In the immediate claim block area Jim Mortensen has mapped quartz- and quartz feldspar-augen schist, interpreted as being a metamorphosed subvolcanic intrusion (his unit Pas) on the immediate west side of Eldorado Creek. The Eldorado to Bonanza ridge (Lone Star) is underlain by unit Pfs: felsic schists, interpreted to have been derived from a sequence of tuffs, cherty tuffs and cherts on the 27 Pup side and over the Lone Star area (Figs. 16 to 18). The east side of the ridge is largely unit Pms: chlorite schist, mafic meta-volcanics.

STRUCTURAL GEOLOGY AND MINERALIZATION

In the Klondike ductile completely isoclinal F_1 folding transposed original bedding into parallelism with axial planar foliation such that F_1 fold hinges are rarely seen. During this ductile deformation the rocks were metamorphosed to chlorite-biotite facies (and in some regions to amphibolite grade). F_2 folds are isoclinal and often E to NE vergent. In the Klondike, regional scale thrust faulting occurred during the D_3 event and folding F_3 produced open folds. This deformation is quite pervasive locally (i.e., at outcrop scale). with generally tight-similar style folds with NW trend. Note that F_3 crenulations developed in the fold hinges define an L_3 lineation. A penetrative axial planar foliation (S_3) is often developed in the more micaceous schist. Deformation D_4 is conjugate angular kink folds and possible macroscopic warping (km-scale) of the penetrative foliation. This produced pervasive folding and complex refolded folds. Fold styles range from tight similar to chevron folds (both are observed in the Lone Star region) and broad open folds. F_4 fold axes are at a high angle to F_3 fold axes and may appear as two conjugate sets: N to NE and E to SE.

The attitude of S_2 foliation in the Eldorado-Bonanza area describes a ridge-scale macroscopic antiformal structure whose NE limb is sheared by a thrust fault low on the NE side of the Lone Star ridge. This is indicated by sheared serpentinite, soapstone and graphitic phyllite encountered during the 2004 trenching (trench 04-17) and in the 2006 excavations: trenches 06TR03 to -05.

Table 3: Summary of principal structural events relevant to the structure of hydrothermal gold deposits rocks (shown from oldest, bottom, to youngest, top) that affect the Klondike Schist, as compiled in this study. *Age of events is deduced from regional considerations, through discussions with Jim Mortensen.

Event	Designation in Klondike Schist	Main feature	Orientation	Mineralisation	Deformation	Age*
Normal fault	Normal fault	Gouge zones	NW to N	Pyrite in silicified schist	Regional extension	Cretaceous?
Mesothermal veins	Discordant quartz veins	Massive quartz veins	Variable, often NW	Au, pyrite, other sulphides	Local extension	?
Kink folds	F ₄	Angular folds, faults, shears	Two orthogonal, N to NE; E to SE		Compression	?
Thrust	Sthrust	Thrust shears	Low dip		Compression	Jurassic?
Late metamorphic folds	S ₃	Recumbent folds, spaced cleavage	Variable		Compression	Permian?
Pervasive foliation	S ₂	Foliation, isoclinal folds	Variable		Compression	Permian?
First foliation	S ₁	Foliation, segregations	Variable		Compression	Permian?
Deposition	S ₀	Bedding etc	Not seen	Sulphides in some rocks		Permian?

Detailed mapping over the Lone Star-Pioneer area has produced a reinterpretation of the macroscopic structures above the Lone Star thrust fault. The immediate succession of felsic schist at the Lone Star has been disrupted by northward striking brittle faulting. This faulting would likely be coeval with the larger fault zones marked by gouge such as are found along Eldorado Creek and at the Dysle prospect (27 Pup), i.e. they would represent a D₅ deformation. These are expressed as regularly spaced moderately to steeply dipping, roughly N-S trending normal faults (typically 5-25cm of clay gouge)

with submetre to 10s of metres displacement, and are observed throughout the Lone Star.

Two types of quartz vein are common in the Klondike:

a) foliaform veins that are typically concordant with transposed bedding and which may be up to metres thick, but which are usually lenticular. These are almost ubiquitously barren of gold and,

b) discordant veins that carry sulphide (pyrite, with minor galena, chalcopyrite and tetrahedrite) mineralization and visible gold which is both commonly contained in selvages of pyrite (or after weathering, pseudomorphs of goethite/limonite) and as free gold grains in the white quartz. The discordant veins are rarely up to 2-3m thick and can persist for hundreds of metres strike length. Some spectacular gold grades are reported from this vein type.

The majority of discordant veins occupy approximately planar, smooth sided fractures. Most are typically several cm thick, but some are up to 0.5 m thick. Many of the veins mapped typically terminate as gradually tapering structures in 2 dimensions. Timing of the discordant, mineralized quartz veining is likely immediately after D_4 .

Gold occurs in the following structures that are discordant to the prominent S_2 foliation in the schist:

(a) veins parallel to D_4 axial planes (typically < 0.2m thick),

(b) shallow-dipping late- D_4 extensional veins, typically ≤ 0.2 m thick and at least in Trench 87-16, spaced ≤ 1 m apart with grades very variable but < 20g/t (the importance of these veins has only been recognized during the 2011 work) and,

(c) in brittle microfaults with approximately 310° strike and which show limonite staining at surface (i.e., they were pyritic).

In addition to structurally controlled gold mineralization the metal is disseminated at low grades within the felsic schist (derived from a dacite-rhyodacite protolith) at Lone Star.

Jim Mortensen considers this to have been syngenetic (VMS) mineralization.

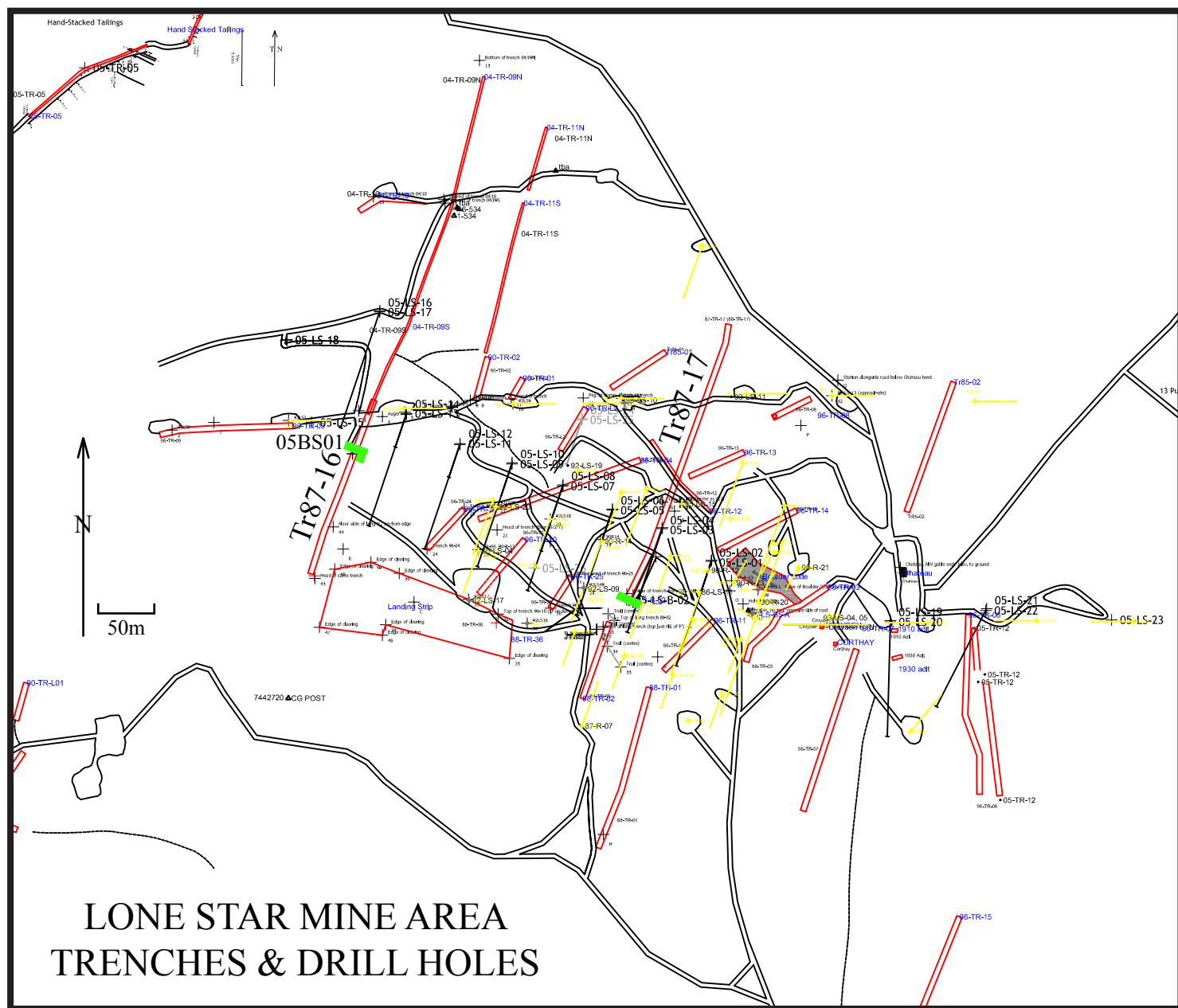


Figure 3. Location of Trenches 87-16 & 87-17 and 2011 trenching sites (shown in green)

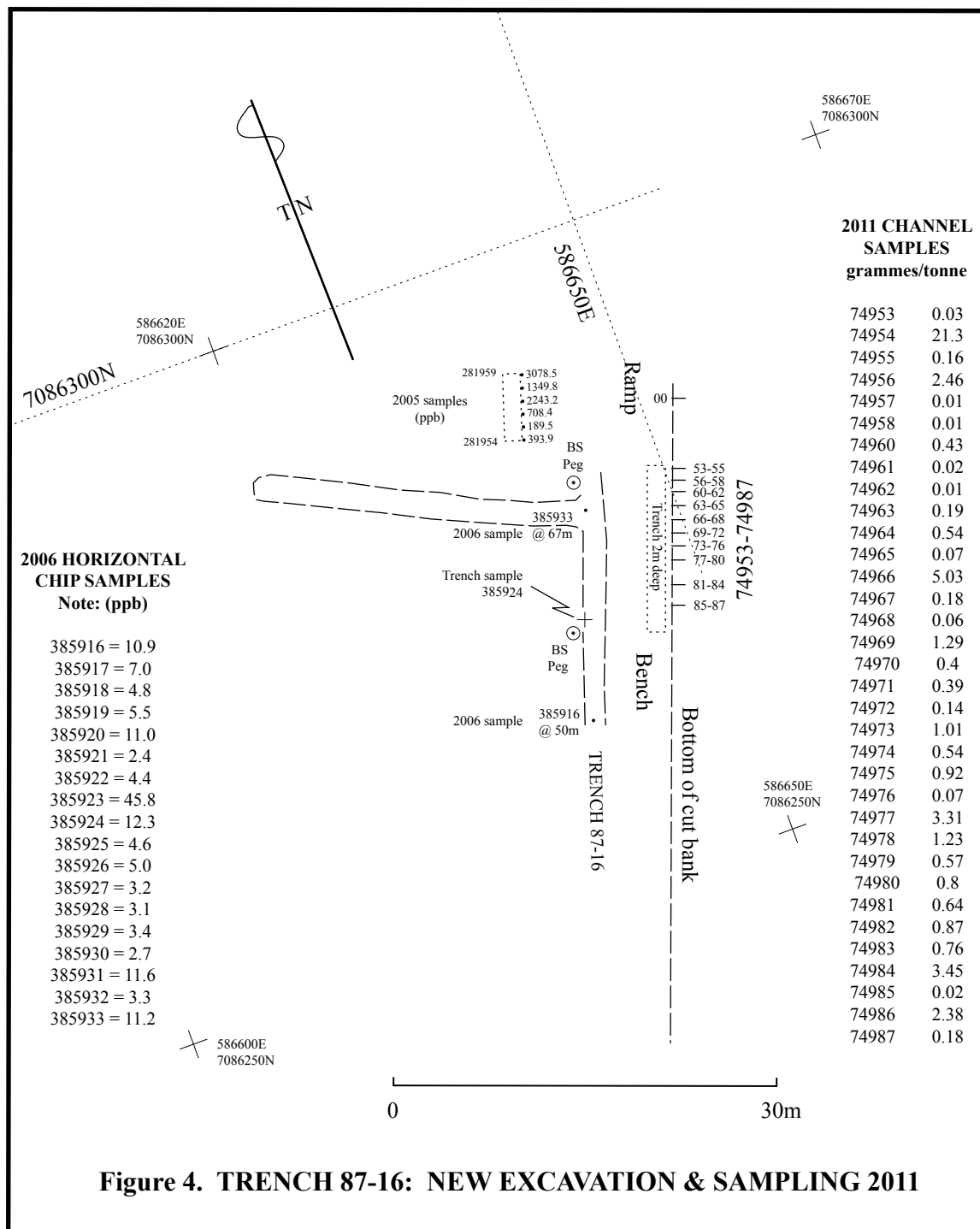
2011 WORK:

TRENCHING AT LONE STAR

Two sites were chosen for trenching, both being adjacent to the location of 2005-6 bulk sample sites. This work was to evaluate improved sampling techniques and the effect of discordant structures on gold mineralization. It was planned to carry out sampling of the new cuts using channel samples, typically 10-15 cm wide, oriented to cut obvious structures or S_2 foliation at a high angle. The quantity of material collected was 3-4 times the weight of the chip samples taken in 2005-6 and care was taken to collect all fines from the cuts.

At trench 87-16 (Figs. 4 & 5) a short cross trench was cut westward from the existing historical trench. The bench on the east side of the old trench was deepened and extended to the west to provide a 3-4 metre high vertical face which was sampled at regular intervals over a 12 metre length and mapped for the whole length exposed. After mapping and sampling a trench was dug a further 3m deep into the bench to expose geology. This trench could not be safely sampled, but it served to demonstrate vertical continuity of low angle extensional structures. The vertical face exposed two significant structures: a series of 10-20 cm thick shallow-dipping discordant (late D_4) extensional quartz veins and at its southern end a D_5 brittle fault zone marked by >1m of gouge material (Fig. 6). This latter fault strikes very obliquely across trench 87-16 and would have been incorporated in some of the 2005 bulk samples. The eastern cross cut exposed various joints and microfaults (Fig. 4). Results of assays are given in both the profile of the vertical cut and plan (Figs. 4 & 6). Values obtained from the channel sampling were significantly higher (to 21g/t) than those obtained from chip sampling in 2005-6 and it is obvious that the shallow-dipping quartz veins control the grade at this locality. A calculation of average grade for the whole 12m long panel (Table 2) gave a value of 0.89g/t, consistent with that of the adjacent bulk sample.

At bulk sample site 05-02 (trench 87-17) a new trench was excavated at a right angle to the historical cut through the bulk sample site (Figs. 7, 8 & 9). This new cut exposed many joints and brittle microfaults, some of which carried limonite, indicating that pyrite had likely been present. Oriented channel samples were again taken. Assays



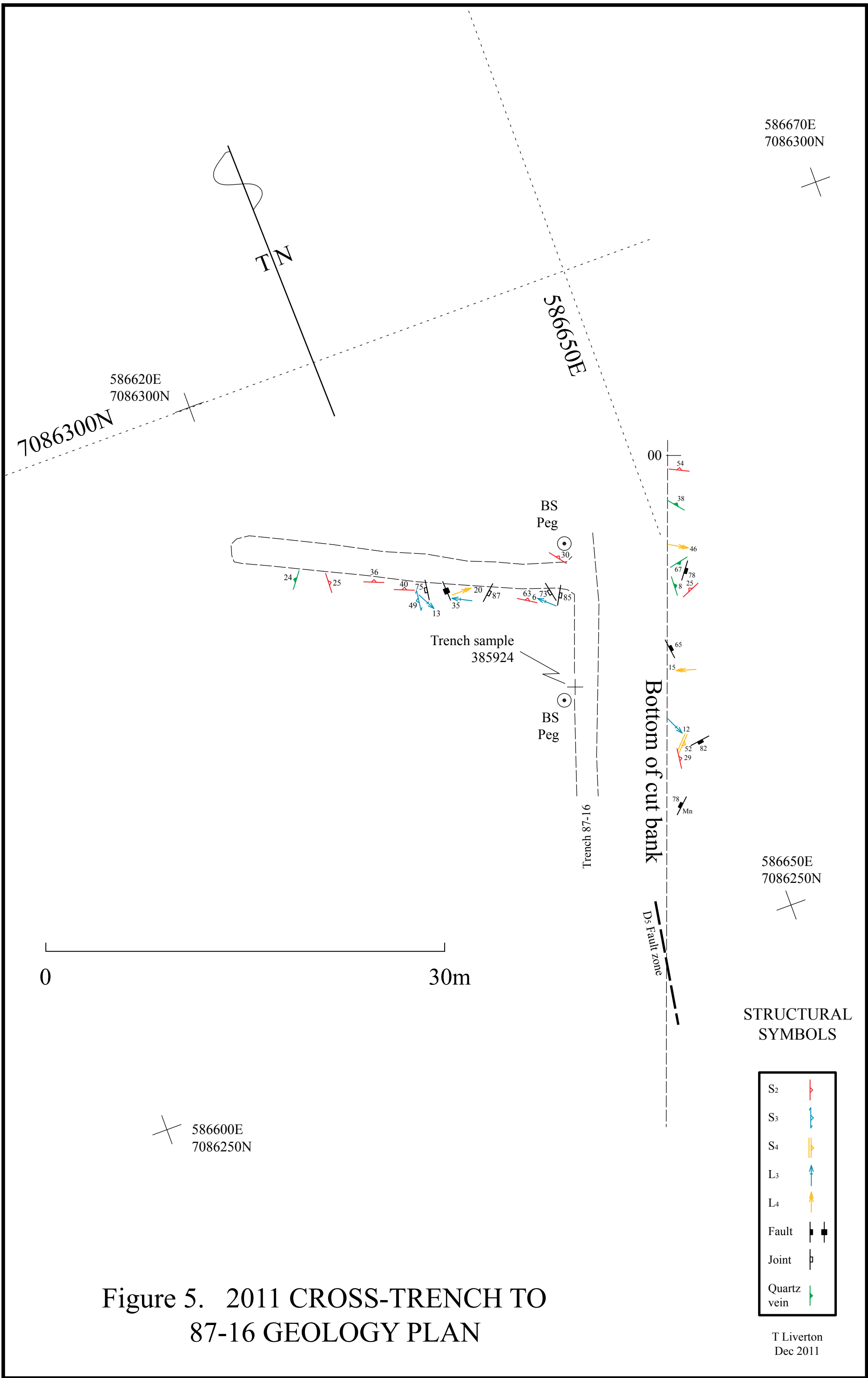
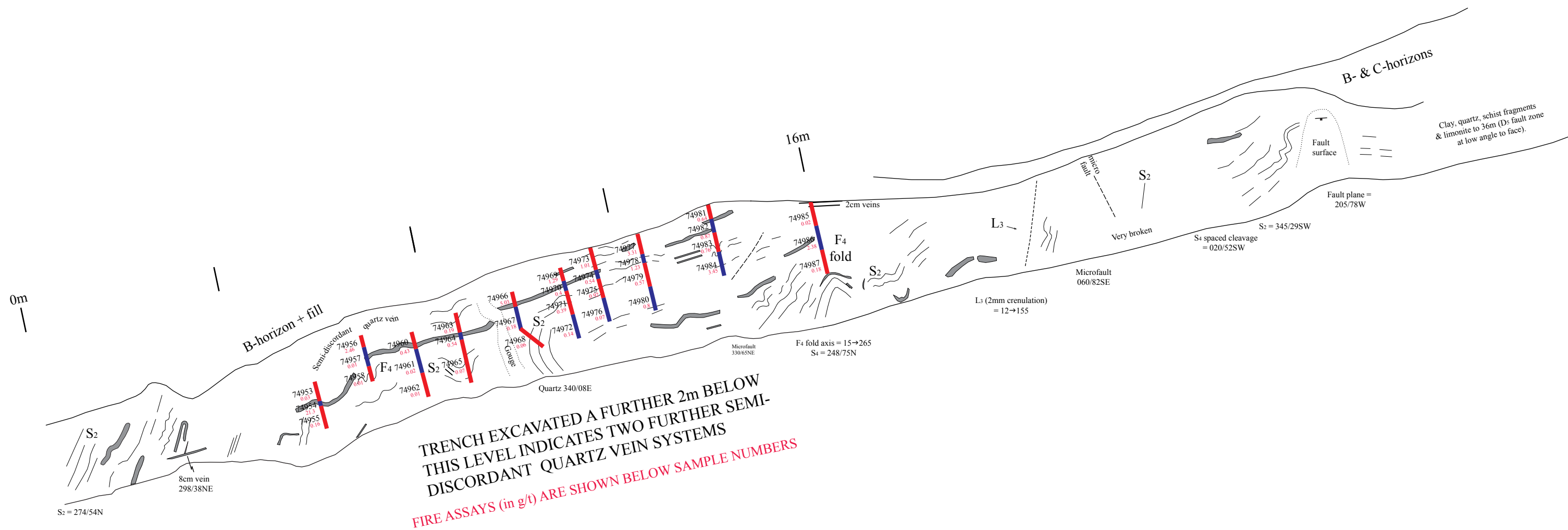


Figure 5. 2011 CROSS-TRENCH TO
87-16 GEOLOGY PLAN



TRENCH 87-16: SKETCH OF EXCAVATION OF EAST BANK AND SAMPLING (FACING EAST)

Sampling: T. Liverton September 2011, drawn T.L. December 2011

AZIMUTHS SHOWN ARE RELATIVE TO MAGNETIC NORTH.
MAGNETIC VARIATION 2011 = 22.6 deg. E.

Figure 6.

revealed that only the microfaults on 312° strike carried gold. Some disseminated gold in schist was indicated at the east end of the sampled face: 0.11 and 0.20g/t (Fig. 9).

SAMPLE No.	CHANNEL AT	LENGTH	GRADE	LENGTH x GRADE
74953	5.5m	0.57	0.03	0.02
74954	5.50	0.13	21.30	2.77
74955	5.50	0.69	0.16	0.11
74956	6.50	0.31	2.46	0.76
74957	6.50	0.56	0.01	0.01
74958	6.50	0.48	0.01	0.00
74960	7.70	0.48	0.43	0.20
74961	7.70	0.71	0.02	0.01
74962	7.70	0.75	0.01	0.01
74963	8.50	0.58	0.19	0.11
74964	8.50	0.21	0.54	0.12
74965	8.50	1.31	0.07	0.09
74966	9.75	0.42	5.03	2.09
74967	9.75	0.71	0.18	0.13
74968	9.75	0.83	0.06	0.05
74969	10.80	0.36	1.29	0.46
74970	10.80	0.30	0.40	0.12
74971	10.80	0.72	0.39	0.28
74972	10.80	0.72	0.14	0.10
74973	11.50	0.68	1.01	0.68
74974	11.50	0.26	0.54	0.14
74975	11.50	0.59	0.92	0.55
74976	11.50	0.71	0.07	0.05
74977	12.50	0.59	3.31	1.97
74978	12.50	0.25	1.23	0.31
74979	12.50	0.71	0.57	0.41
74980	12.50	0.71	0.80	0.57
74981	14.00	0.45	0.64	0.29
74982	14.00	0.38	0.87	0.33
74983	14.00	0.59	0.76	0.45
74984	14.00	0.71	3.45	2.46
74985	16.00	0.69	0.02	0.01
74986	16.00	0.71	2.38	1.70
74987	16.00	0.74	0.18	0.13
SUM		19.62		17.48

AVERAGE GRADE = **0.89 g/t**

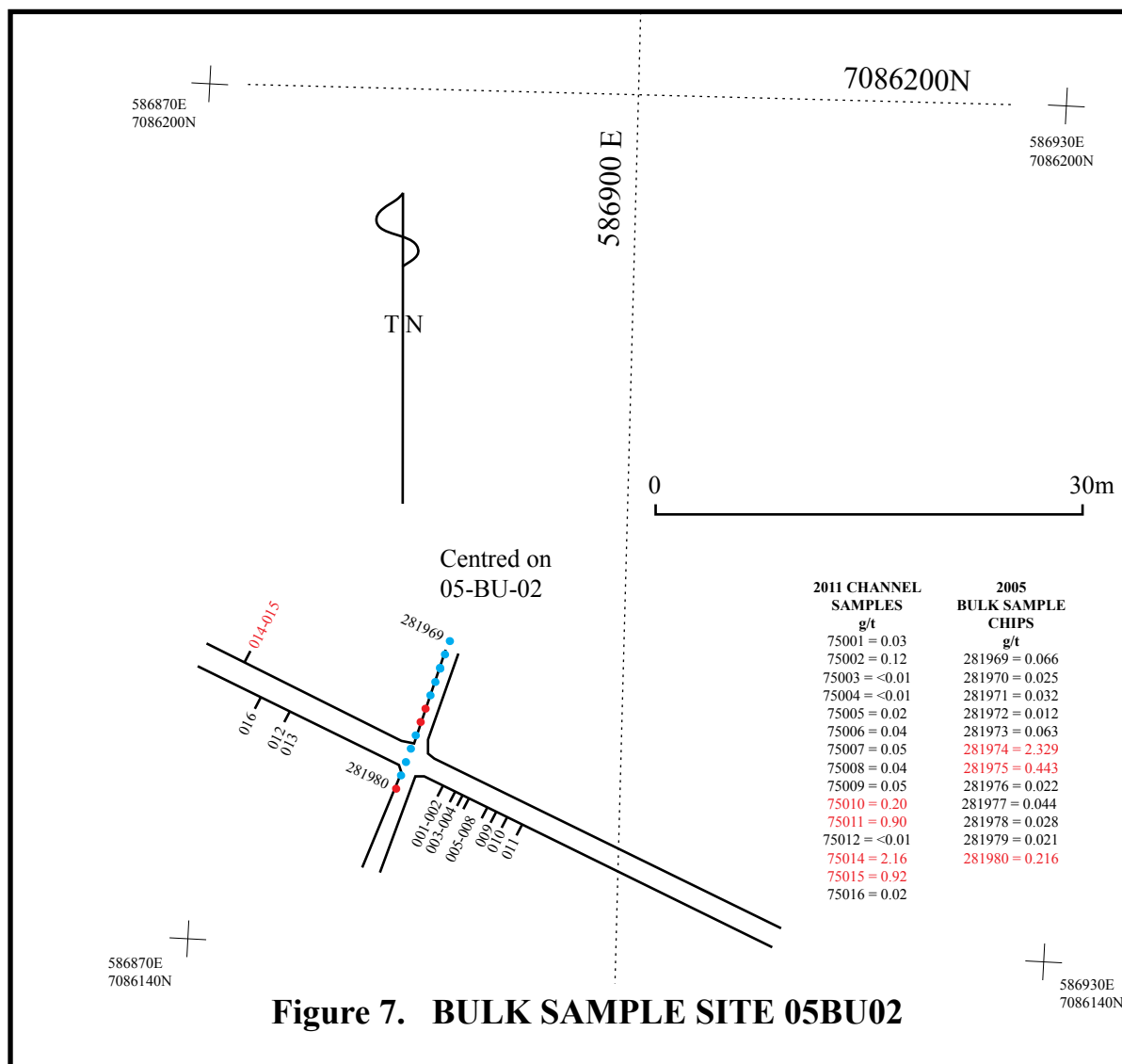
Table 4. Average grade calculation for Trench 87-16 vertical panel

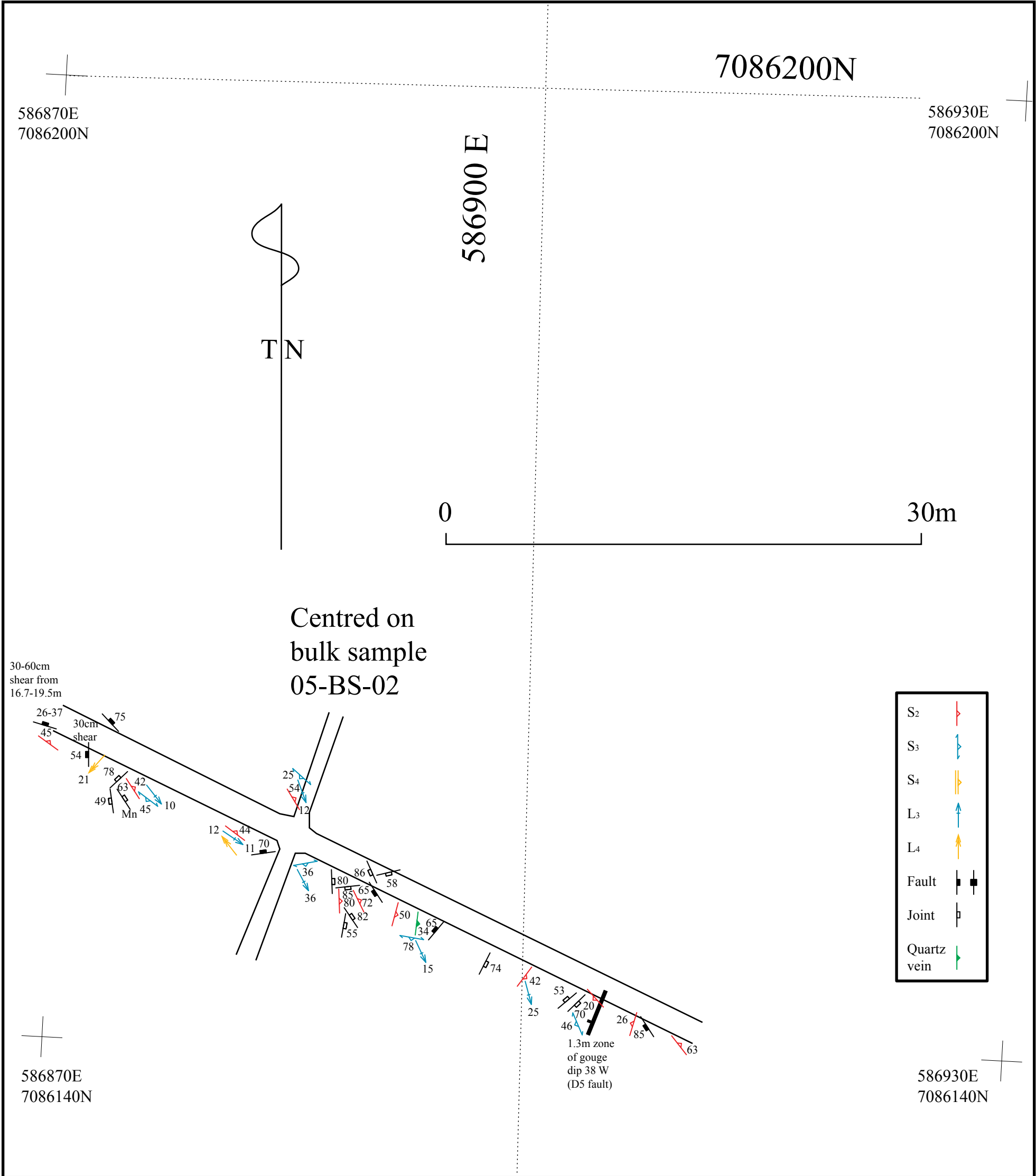
This series of vertical channel samples represents a panel of approximately 2 metres height by 11.5 metres length.

TRENCHING AT NUGGET ZONE

Some of the old trenches from 2006 were cleaned out and new pits dug with the backhoe. A report by Sandro Frizzi is appended (App. 1). The channel samples taken by him, which were typically four times the weight of the 2006 chip sampling reported grades that are consistent with the 2006 bulk sample grades (Figs. 11 & 12). It is apparent that at the Nugget zone most gold reports from the quartz veins. Grades within the schist are low, however the immediate selvages to those veins do carry significant gold. The pyritic schist is notably mineralized.

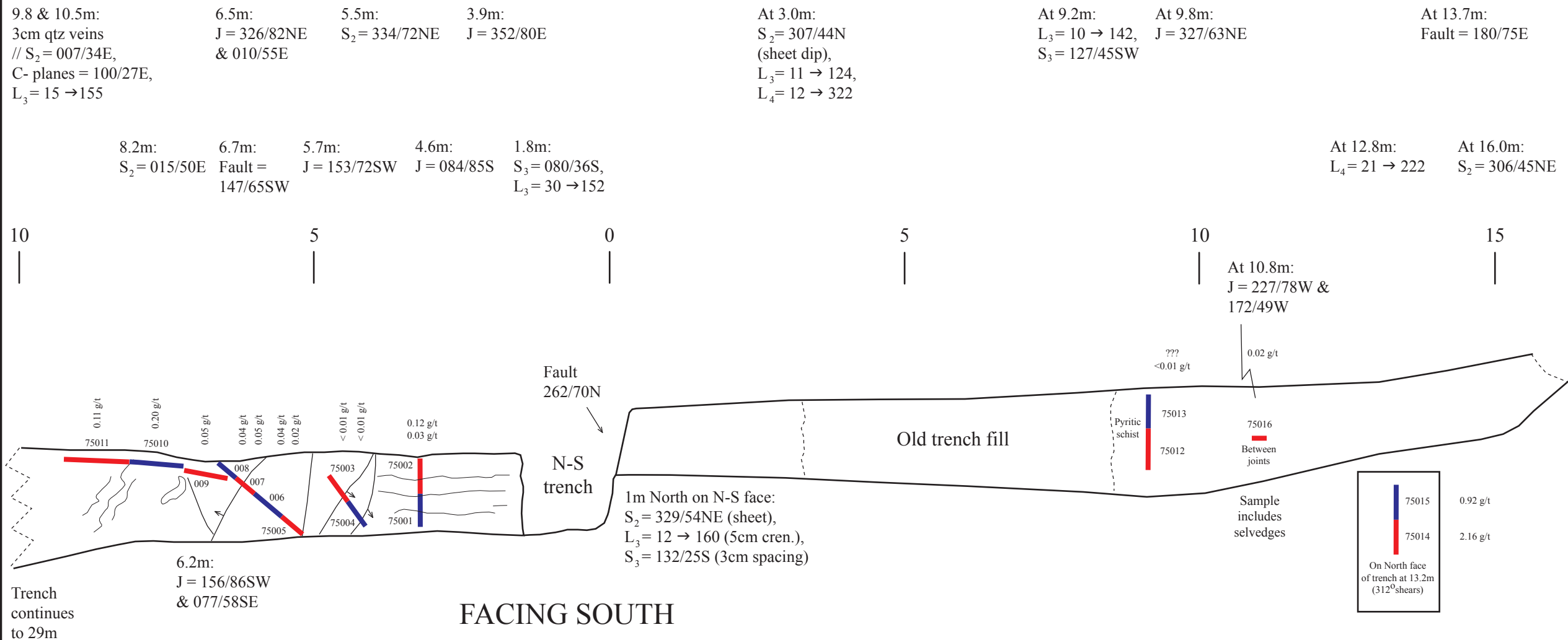
The assay results, with brief descriptions are given in Table 5.





2011 CROSS-TRENCH TO TRENCH 87-17: GEOLOGY
D₂ to D₄ STRUCTURES

Figure 8.

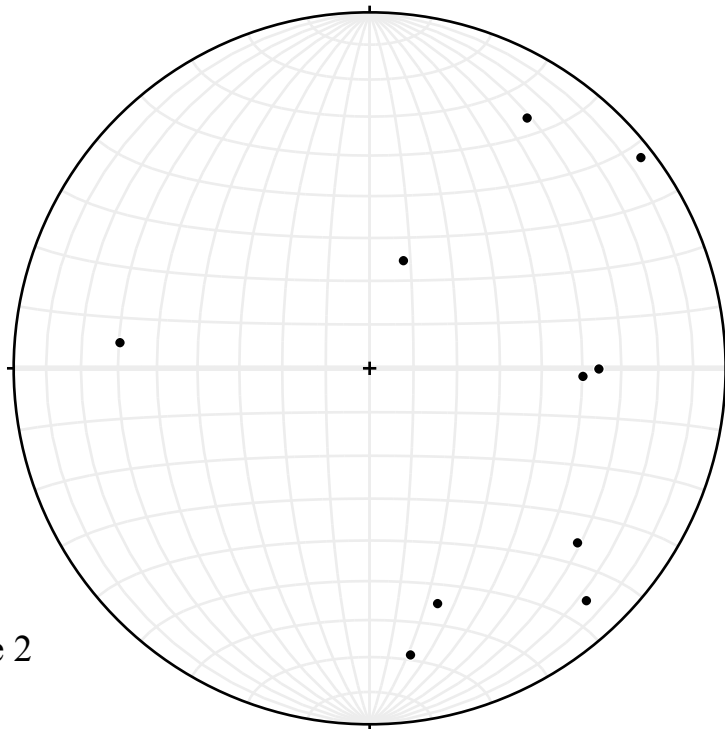


PROFILE OF CROSS-TRENCH (116° True) THROUGH BULK SAMPLE SITE 05-BU-02 STRUCTURAL MEASUREMENTS & CHANNEL SAMPLING

Azimuths shown are relative to true north
T. Liverton, October 2011

Figure 9.

Poles to faults
Bulk sample site 2



Poles to joints
Bulk sample site 2

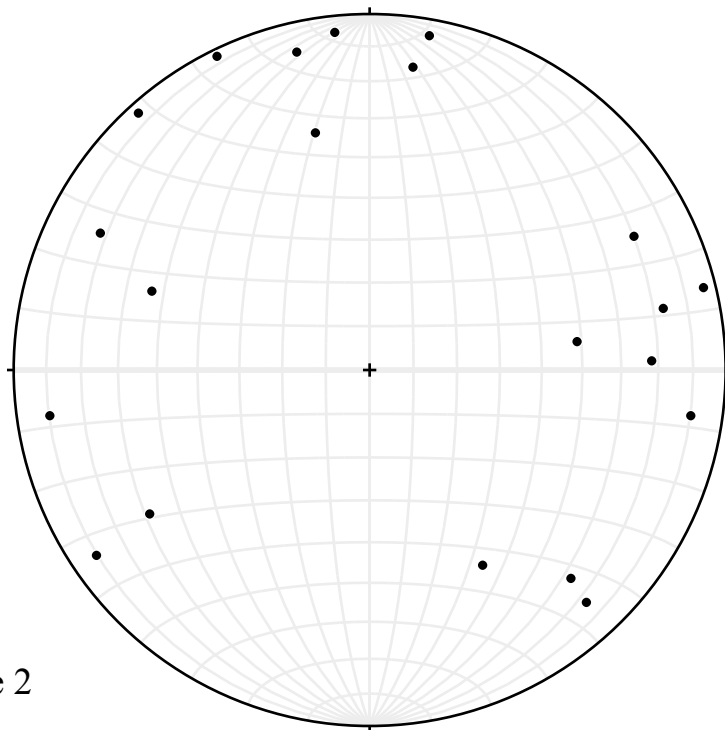
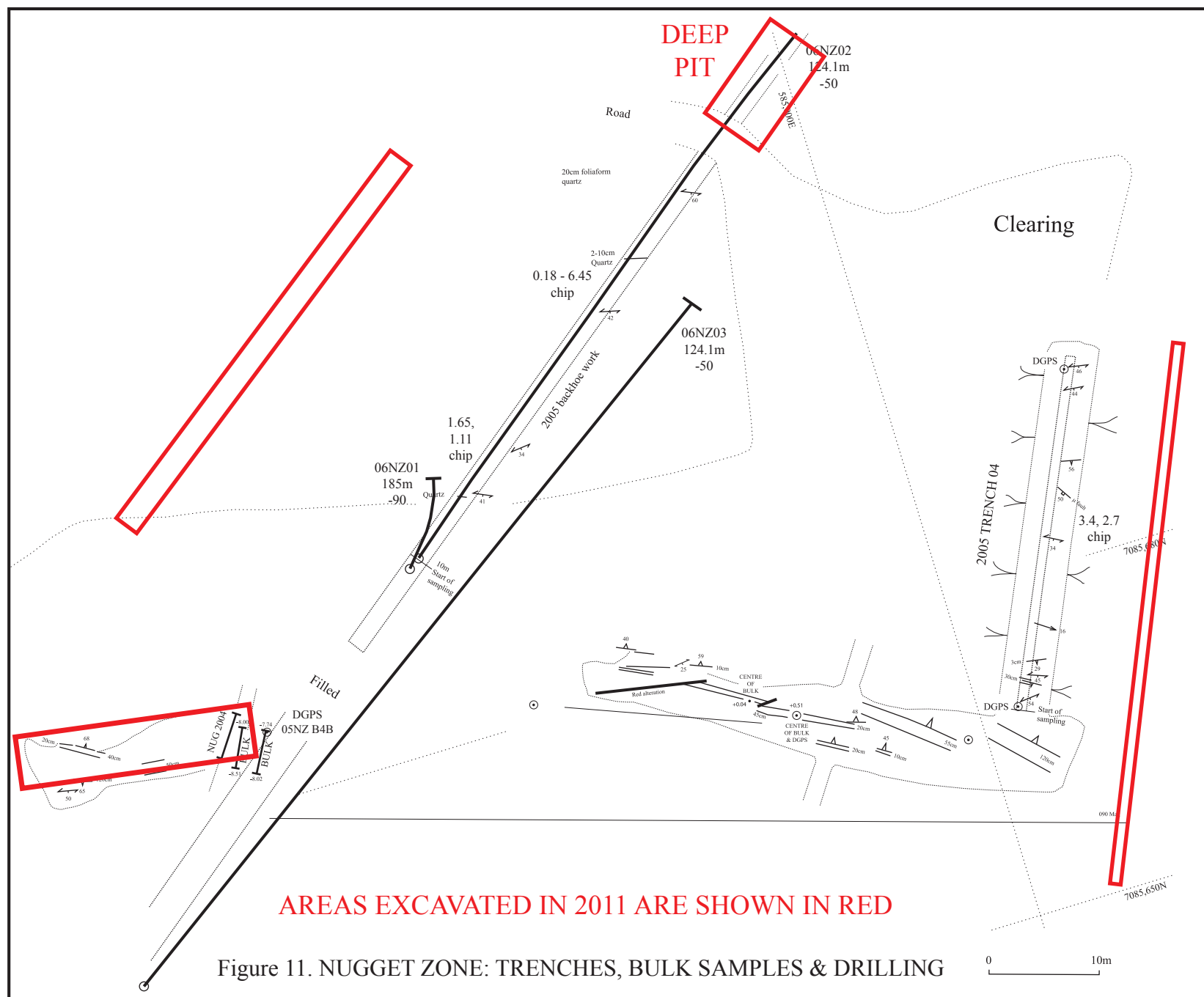


Figure 10. Equal area stereograms of microfaults and joints in the new cross-trench at bulk sample site 05-02

Table 5. Assays from Nugget zone

NUMBER	UTM E	UTM N	TYPE	ASSAY, GOLD Au-AA26 ppm
74801	584919	7085690.3	Qtz vein 3cm thick	0.01
74802	584919	7085690.3	Panel 50x100cm	0.01
74803	584921.5	7085689.8	Panel 50x50cm	0.02
74804	584924.4	7085689.4	Schist above vein	2.55
74805	584924.4	7085689.4	Vein, 15cm	0.19
74806	584924.4	7085689.4	Schist selvedge	20.4
74807	584925.7	7085689.2	50x50cm panel, pyritic schist	7.34
74808	584925.7	7085689.2	50x50cm panel, pyritic schist	11.75
74809	584924	7085688.8	Qtz vein + selvedge	0.71
74810	584925.8	7085688.8	Qtz vein + selvedge	0.91
74811	584928	7085689.4	Schist	1.81
74812	584928	7085689.3	Vein	0.14
74813	584928	7085688.8	Schist	0.58
74814	584933.9	7085687.8	2cm vein	4.18
74815	584936.4	7085687.4	2cm vein	3.08
74816	584935.2	7085687.5	N-S vein	4.21
74817	584935.2	7085687.5	Panel	3.6
74818	584943	7085708	Upper panel	0.01
74819	584943	7085708	Upper panel	0.01
74820	584943	7085708	Lower panel	0.03
74821	584943	7085708	Lower panel	0.02
74822	585019	7085649	2m horizontal channel	<0.01
74823	585021	7085650	2m horizontal channel	0.01
74824	585022	7085651	2m horizontal channel	0.02
74825	585024	7085652	2m horizontal channel	0.72
74826	585025	7085653	2m horizontal channel	0.24
74827	585028	7085655	2m horizontal channel	<0.01
74828	585029	7085656	2m horizontal channel	<0.01
74829	585031	7085657	2m horizontal channel	<0.01
74830	585033	7085658	2m horizontal channel	<0.01
74831	585034	7085659	2m horizontal channel	<0.01
74832	585036	7085660	2m horizontal channel	<0.01
74833	585038	7085661	2m horizontal channel	0.03
74834	585039	7085662	2m horizontal channel	1.06
74835	585041	7085663	2m horizontal channel	0.03
74836	585043	7085664	2m horizontal channel	<0.01
74837	585045	7085666	2m horizontal channel	<0.01
74838	585024	7085656	Vein	0.82
74839	585024	7085656	Vein	8.28
74840	585024	7085656	Selvedge	1.35
74841	585024	7085656	Selvedge	15.1
74842	585032	7085669	Vein	0.06
74843	585032	7085669	Vein	0.04
74844	585032	7085669	Selvedge	0.02
74845	585032	7085669	Selvedge	0.02



74801 = 2cm vein, 1.5m sample along vein
 74802 = 20cm vein, 50 x 100cm panel
 74803 = 50 x 50cm panel
 74804 = schist
 74805 = quartz vein
 74806 = schist below vein
 74807 = 50 x 50cm panel: pyritic schist
 74808 = 50 x 50cm panel: pyritic schist
 74809 = vein + selvage
 74810 = same vein
 74811 = selvage of schist
 74812 = vein
 74813 = selvage, same vein
 74814 to 16 = vein + selvage
 74817 = panel sample

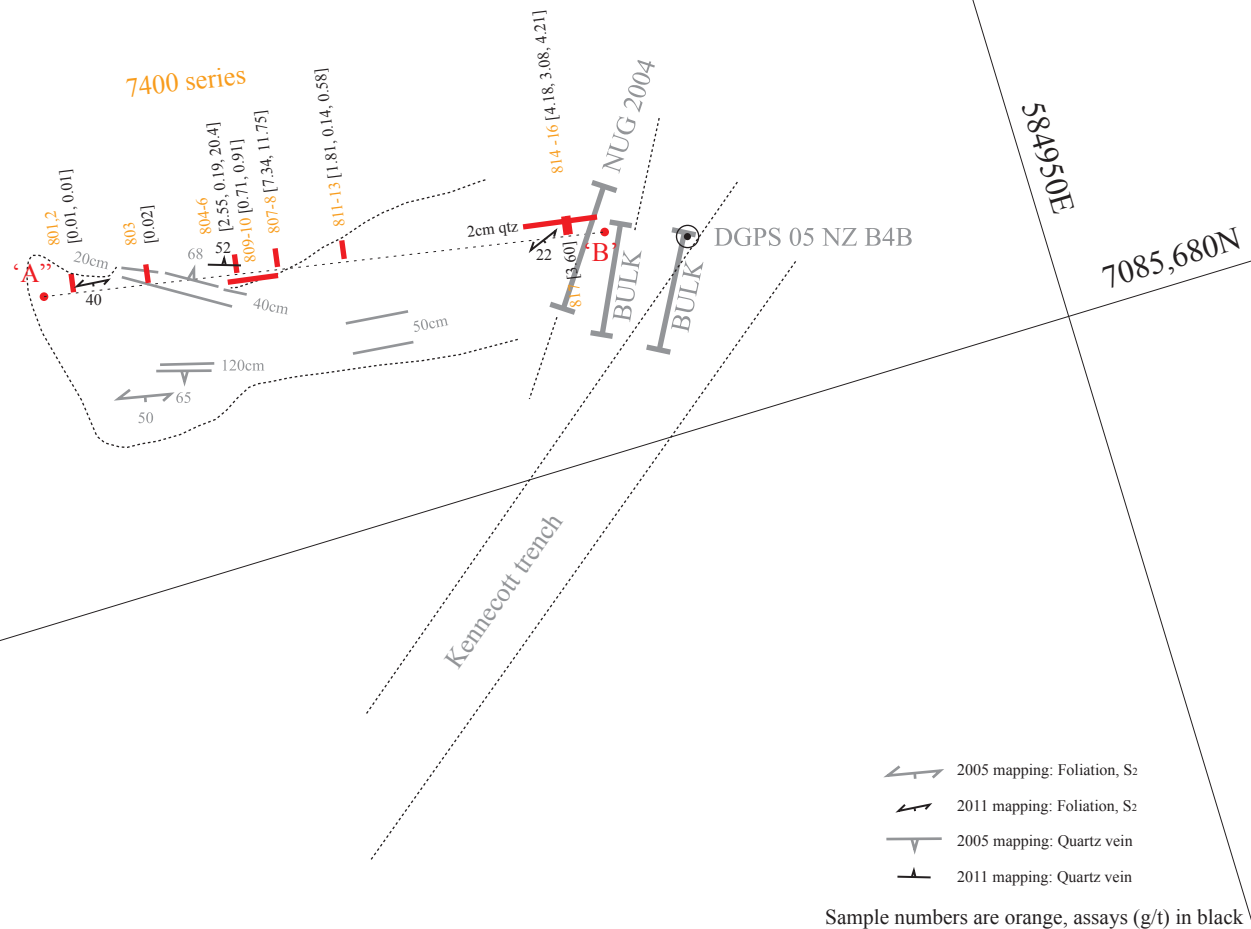


Fig. 12. NUGGET ZONE. 2011 CHANNEL AND PANEL SAMPLES FROM WESTERN ZONE

SAMPLE PREPARATION

The channel samples from the three areas reported above were crushed in a jaw crusher to predominantly minus 5mm size and were then split from one to three times, depending on quantity, with a 1/2 inch Jones riffle splitter. Assay samples were packed into sealed polyweave bags which were sent to the preparation laboratory. Duplicate splits were stored at the Eldorado core shack. These operations were carried out either by or under the supervision of the author as Q.P. for the project.

BACKHOE EXCAVATION AND SOIL SAMPLING ON THE RIDGE ROAD

Pits were dug alongside the Ridge road to a depth of approximately 3m and outcropping rock was broken loose. Kraft bags of C-horizon soil were collected as well as pieces of representative rock: one or more pieces of each lithology present, including quartz. Rocks samples, which were frozen and covered in soil were stored at the Eldorado core shack to be washed and selected for analysis in 2012. The soil bags were air dried, packed into sealed polyweave bags and shipped to the ALS Chemex preparation laboratory in Whitehorse for analysis by four acid digestion and 48 element ICPMS analysis. Gold was also determined by the Au- TL42 procedure (aqua regia / ICPMS). Plots of various possible pathfinder elements follow. These plots (Fig. 14) show the distance along the Ridge road calculated from GPS readings at each site.

Figure 14. Plots of soil geochemistry from the ridge road sampling.

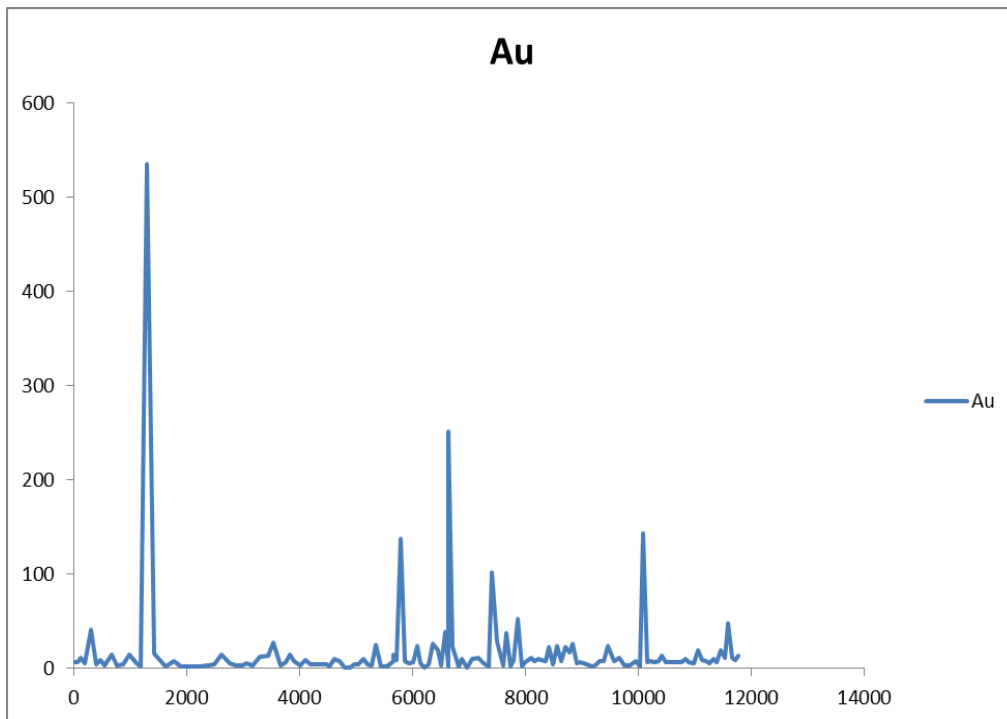


Fig. 14a. Au (ppb in C-horizon soils) vs. distance along road from N end

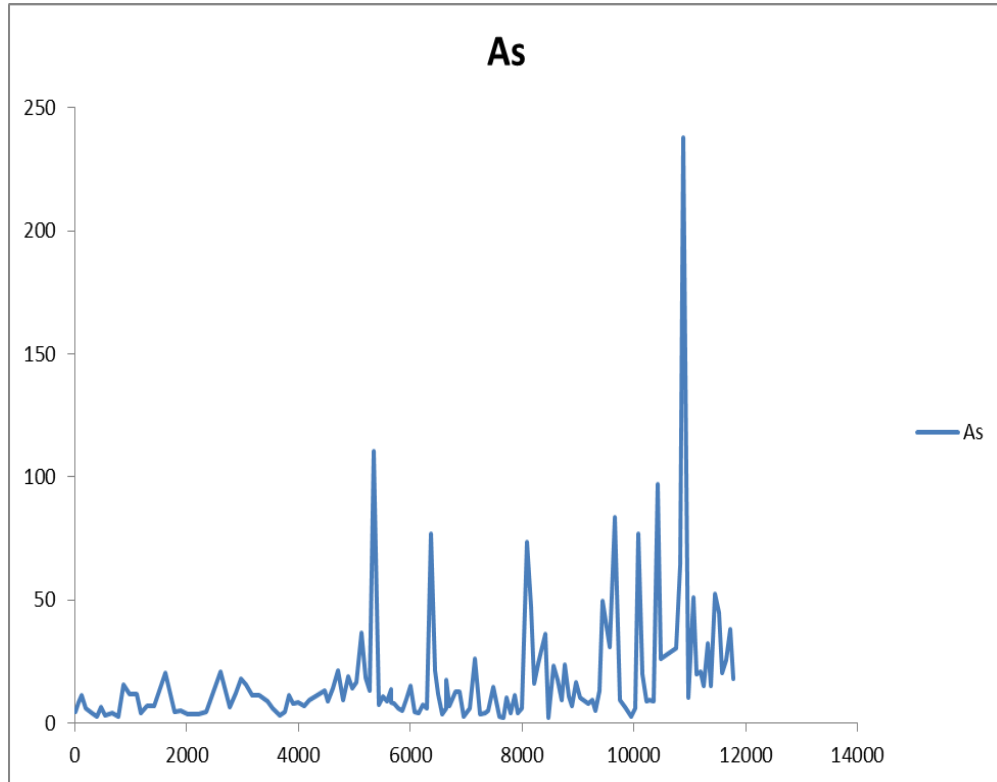


Figure 14b. As (ppm in C-horizon soils) vs. distance along road from N end

The interpretation of drill hole data by Jim Mortensen indicates that high arsenic is associated only with quartz veins. Coincidence of the As anomalies with gold may indicate separate D₄ vein sources.

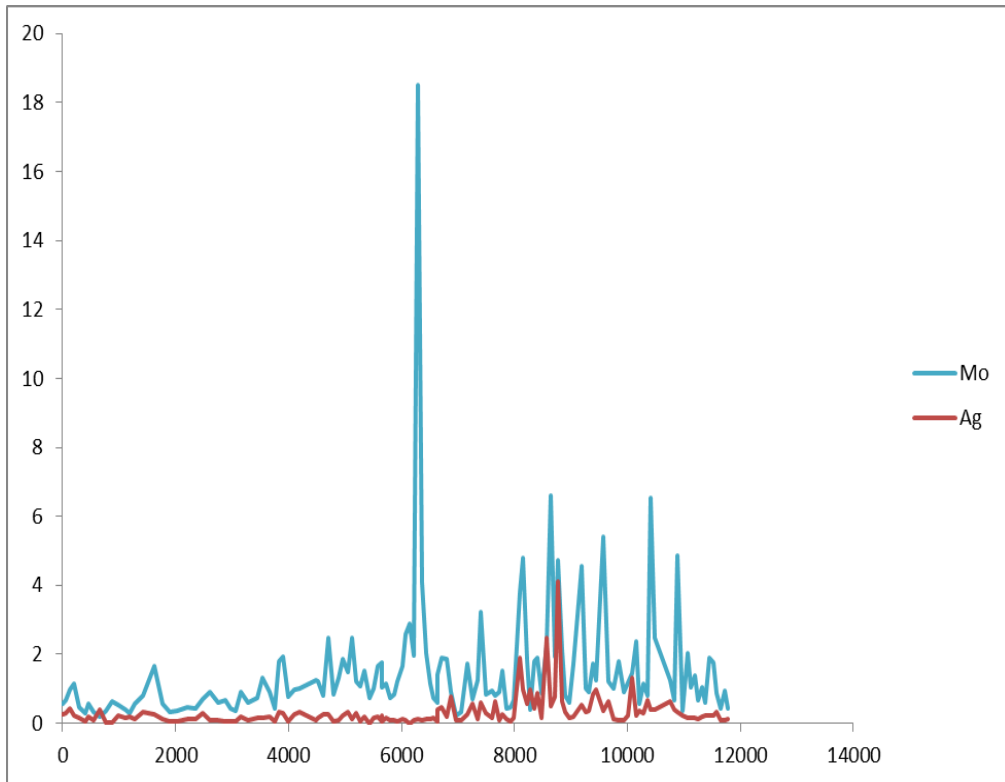


Figure 14c. Mo & Ag (ppm in C-horizon soils) vs. distance along road from N end.

Base metal anomalies may indicate either a quartz vein source or that of disseminated mineralization in the felsic schist (a syngenetic source).

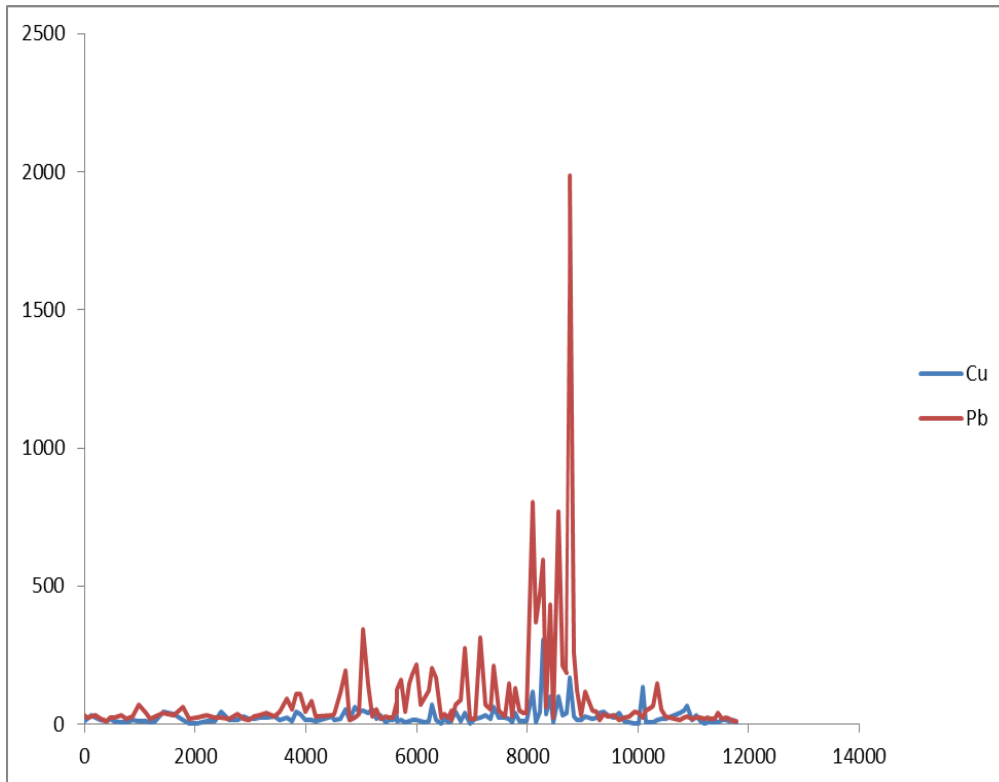


Figure 14d. Cu & Pb (ppm in C-horizon) vs. distance along road from N end

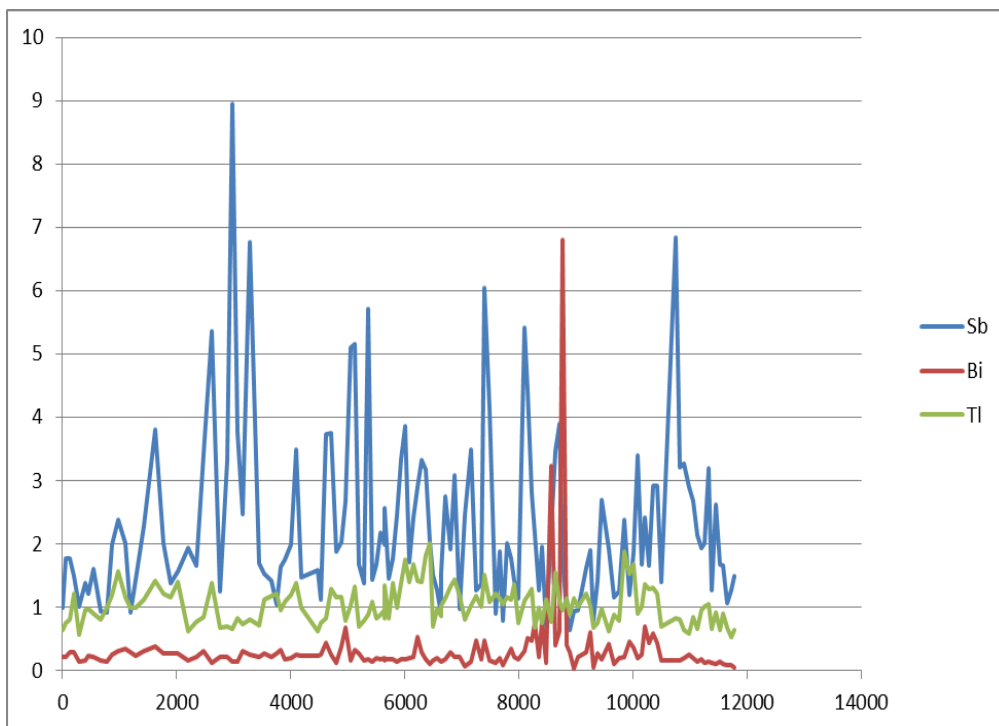


Figure 14e. Sb, Bi & Tl vs. distance along road from N end.

Only the Bi shows a clear anomaly (that is also within the region of anomalous lead.)

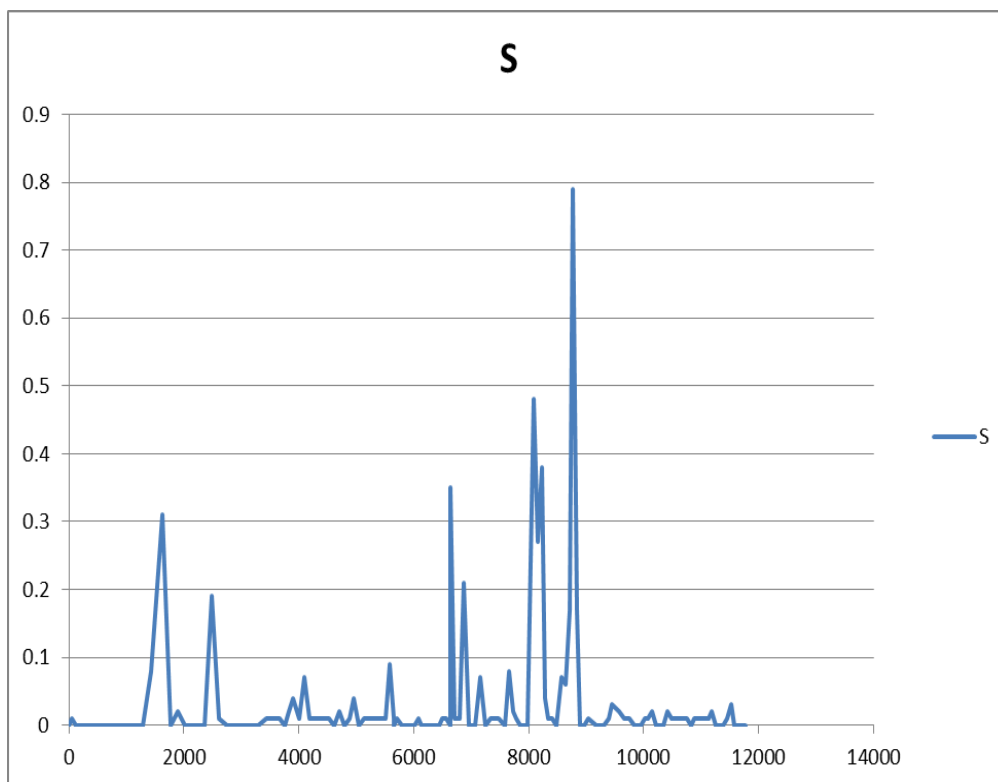


Figure 14f. S (%) vs. distance along road from N end.

Sulphur shows partial correspondence with As & Bi. Only in the case of 6638m (specimen 73751) does S correlate directly with gold. The peak at 8100m correlates with As, Pb, and Sb. This may indicate presence of sulphosalts. The highest peak at $\approx 8700\text{m}$ correlates with Ag, Pb and Bi.

Anomalies are as follows:

Gold is obviously anomalous at 1284, 5789, 6638, 7396 and 10,081metres (samples 74929, 74884, 73760, 73751 and 73795 respectively). It only correlates directly with sulphur (i.e., obvious pyrite) at 6638m (specimen 73751) and there also with Ag. Gold is not perfectly coincident with any of the elevated base metals.

Silver, bismuth, lead, copper, zinc, and selenium are anomalous at 8770m (specimen 73779 and in various anomalous combinations of these elements from 8092m (73769) to 8770m. **Arsenic**, although not exactly coincident with these anomalies is elevated throughout this zone. The interval is not anomalous in gold. An isolated **molybdenum** anomaly is found at 6287m (specimen 74891).

Whether the gold anomalies represent mineralization disseminated through the schist or in discrete quartz veins is uncertain. Low arsenic might be taken to indicate disseminated mineralization (although one would expect soluble elements to be transported downslope from a gold source and hence to perhaps be separated from the gold). The base metal anomalous zone from 8092-8770m could well indicate continuation of syngenetic mineralization past Eldorado Dome since there is little evidence for quartz veining at surface. Testing of the five gold and one base metal anomalies will require C-horizon $\pm$ rock sampling on a limited grid basis using either auger or rubber-tyred backhoe.

LITHOGEOCHEMISTRY & STRUCTURAL GEOLOGY

A reinterpretation of whole rock and trace element chemistry of drill core from the 2005 exploration programme has been commenced by Professor Jim Mortensen. His preliminary report is appended. He has demonstrated that relatively immobile trace element contents will differentiate between the various lithologies within the Klondike schist that 2007 whole-rock data indicated to be meta- rhyolite, -rhyodacite and –basaltic andesite. A very sharp boundary between rock in drill core termed “micaceous quartzite” (meta-rhyolite) and the felsic schist (rhyodacite and basaltic andesite protoliths) is recognised, together with considerable ‘texture’ within the felsic schist that might delineate mappable units. The ability to trace stratigraphy will greatly aid structural interpretation.

A further report on the need to refine our structural geology in the Lone Star area is also appended. Structures mapped during the sampling of the new Lone Star excavations indicate that whereas the D₃ folds and crenulations have a relatively constant

trend in the immediate Lone Star area, the D₄ structures have varying orientation. Structural mapping by Doug Mackenzie and Dave Craw (e.g., MacKenzie et al., 2007) recognised the D₄ deformation event and on a regional scale correlated this deformation with gold mineralization in structures that cross-cut the prominent foliation in the schist. There were, however two different orientations of the D₄ style folds. We do not know whether one or perhaps both fold systems in the same outcrop are critical to mineralization.

OTHER PHYSICAL WORK

In addition to the backhoe sampling along the Ridge road a much larger Caterpillar backhoe was brought onto the property by Dave Laurensen in an attempt to excavate the part of the JF Zone between the 2006 and 2007 trenches. A trench of approximately 30m metres length was dug, but by the time it had penetrated to fairly fresh rock the excavation was overhanging and too deep to safely enter. A further attempt to dig a stepped trench will be made in 2012. Other physical work on the claim block consisted of use of Laurensen's D8 bulldozer to clean up the badly eroded sections of the Gay Gulch road and the hairpins at the northern end of the Ridge road.

DISCUSSION

The excavation and channel sampling carried out in the Lone Star and Nugget zones has demonstrated that collection of rock along a fairly constant cross section and in quantities of 2-4 kg per metre yields assays that are significantly higher than those resulting from chip sampling and which are also reasonably consistent with earlier obtained bulk sample results. Panel samples taken in this manner may be used to assess grade.

Sampling across structures reveals where the gold is distributed. Two significant auriferous structures were identified at Lone Star. The flat-lying D₄ extensional veins similar to those described by MacKenzie et al. from the Boulder Lode opencut are the principal grade-carrying feature at the north end of trench 87-16. Their being repeated at < 1m vertical intervals allows some optimism for generation of significant tonnage at grades of approximately 1g/t. The 310° striking limonite-filled microfaults at Bulk Sample site 06-02 are a further source of gold at that locality. Disseminated gold has been demonstrated there also, albeit at a low grade.

Channel sampling at the Nugget zone has demonstrated that the larger size of sample, taken to include all fine material results in higher grade results than chip sampling in 1kg amounts. There the grades shown are in the same range as those reported by the 2006 bulk sampling.

The Ridge road soil and rock sampling programme has revealed five regions of anomalous gold and abroad zone of base metal anomaly. These regions need to be followed up during the 2012 season with either grid auger sampling or backhoe trenching. This exploration method is rapid and relatively inexpensive. It produces C-horizon soil and rock that may be confidently analysed. In addition, rock lithogeochemistry may be used once the existing rock samples are cleaned and in any future sampling elsewhere on the claims. The pits may also be examined next summer to obtain structural data (about a third of the pits showed in situ rock, but there was not time to map the structures).

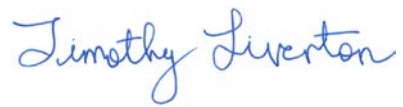
Further very detailed structural mapping is needed at the Lone Star. A first approach to investigating this will be to map the Lone Star trenches to identify structural domains. Detailed surface rock sampling to both investigate gold grades and lithogeochemistry needs to be performed concurrently with this structural work.

RECOMMENDATIONS

The 2011 work has indicated various avenues for exploration and further research into the gold mineralization at Lone Star.

1. All surface sampling should be performed using channel samples that are oriented according to local structure. A size of 2-3kg / metre would be typical of the requirement.
2. The existing trenches and horizontal exposures in the Lone Star area are to be mapped in detail to identify structural domains. Sampling should be linked to this mapping to determine gold distribution. Any suitable rock samples should be submitted for 4-acid digestion / ICPMS analysis as well as for gold to allow lithogeochemical mapping. The largest amount of structural and grade information would be obtained if the Boulder Lode opencut is cleaned out for mapping and sampling at the start of the summer.
3. The roadside geochemical sampling has been successful in identifying gold and base metal anomalies. The method should be extended along the Ridge road to the Violet mine and along other roads on the claim block. This will be particularly useful if rock samples and structural data are obtained concurrently.
4. To refine the lithogeochemistry, drill core from the 2005-6 drilling should be re-examined early in the coming season to compare the chemical 'units' with observable texture and mineralogy. Initially, holes 05-02 and 05-09 should be logged, but then the other holes may be re-examined. This work is best performed by one or two people to ensure consistency of classification. This work will be also useful in defining a 'lithocode' for use in core logging.

5. Once these preceding refinements in recognition of structure pertinent to mineralization and lithogeochemistry are developed at Lone Star the methods may be extended to cover the claim block.

A handwritten signature in blue ink that reads "Timothy Liverton". The script is cursive and fluid, with the first name and last name clearly distinguishable.

T. Liverton Ph.D. C.Geol. F.G.S.

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Mortensen, J.K., Chapman, R., LeBarge, W. and Crawford, E. 2006. Compositional studies of placer and lode gold from western Yukon: Implications for lode sources. *In: Yukon Exploration and Geology 2005*, D.S. Emond, G.D. Bradshaw, L.L. Lewis and L.H. Weston (eds.), Yukon Geological Survey, p. 247-255.

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associated with orogenic veins in the Klondike Schist, Yukon. *In: Yukon Exploration and Geology* 2007, D.S. Emond, L.R. Blackburn, R.P. Hill and L.H. Weston (eds.), Yukon Geological Survey, p. 215-234.

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STATEMENT OF QUALIFICATIONS

Timothy Liverton

I, Timothy Liverton, geologist of 102 Komish Court, Watson Lake, Yukon, state that:

That I have the following qualifications: BSc in geology and geophysics from the University of Sydney 1965, BSc (Honours) in economic geology from the University of Adelaide 1968 and PhD from Royal Holloway, University of London 1992. I have 45 years' experience in mineral exploration and mining of lode tin, skarn and porphyry tungsten, porphyry copper, vein and unconformity uranium, VMS base metals, lode and skarn gold, industrial minerals and placer tin and gold. I am a member of the Geological Association of Canada, Geological Society of America, Society of Economic Geologists and the Geological Society of London. By virtue of my validation as a Chartered Geologist I am a Qualified Person under N.I. 43-101 rules.

I carried out fieldwork on the Lone Star property between 2004 and 2007 when the claims were operated by Klondike Gold Corp. and Klondike Star Mineral Corp. and then as a consultant to Lonestar Gold Corp. between August and October 2011.

I hold no shares or interest in Lonestar Gold Corp.



Timothy Liverton

COST STATEMENT

Labour /man-hrs	\$	33000
Equipment rental	\$	33700
Professional fees	\$	17000
lab assay cost	\$	5100
Total	\$	88100

APPENDICES

Figure 13. Ridge road sample sites and geochemical anomalies.

Tables of analyses.

Lithogeochemical studies of gold-bearing felsic schist units in the Boulder Lode area, Lone Star ridge. J.K. Mortensen, Ph.D., P. Eng., pp. 21

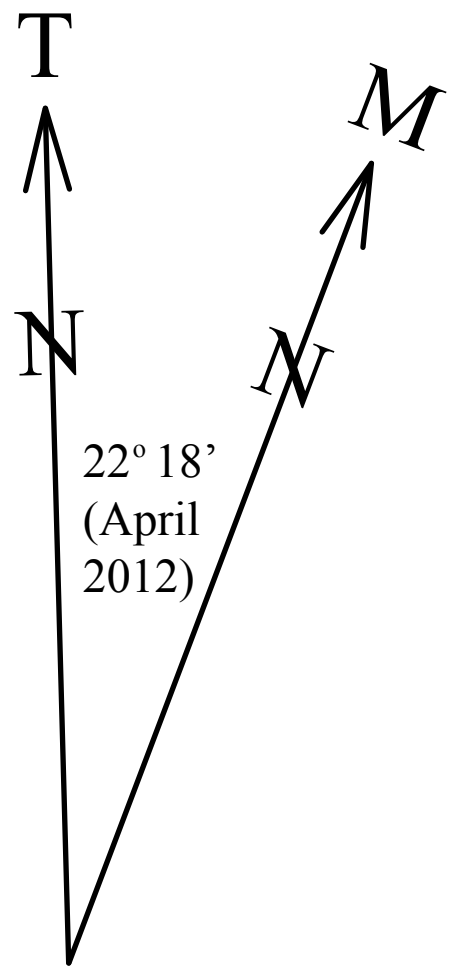
Geology and gold mineralization in the Lone Star ridge and Eldorado Creek areas and recommendations for exploration.

J.K. Mortensen, Ph.D., P. Eng., pp.10

September 2011, Trench sampling Campaign at “Nugget” Zone.

Sandro Frizzi, pp.10.

Klondike Gold Corp. Lonestar Property Ridge Sampling 2011



Legend

Lonestar Property

Claim Group

Soil Geo-chem. 2011

Ridge Sampling

Ridge Sampling Route

Sites

Historic workings

Landmarks

Historic mining

Transportation and trails

Exploration roads

Quad trails

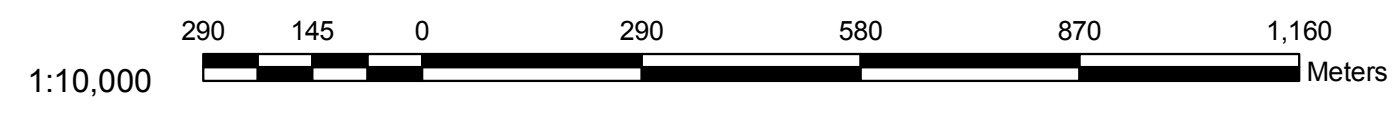
Roads

Secondary roads

Land parcels

Buildings

FN Settlement Land



Projection: UTM Zone 7
Datum: NAD83
Coordinates are in meters.
Map Created: 27.03.2012.
Topographic: NTDB (NRCAN)
Road Network: Canvec
Exploration Roads: Klondike Star Mineral Corp.
Cadastral: CCM (NRCAN)
Current as of January 6, 2012.
Ridge Sampling - Lonestar Gold Ltd. 2011
Exploration Database: Lonestar Gold Ltd. 2011.
Shaded Relief: DOE (YG)

Figure 13.
Geochemical anomalies:
T. Liverton March 2012

Map produced by: Trish Hume
Map it Out - Custom Cartography
Dawson, Yukon

TABLES OF ANALYSES

1. Nugget Zone. Assays for gold.
2. Lonestar. Trench 87-16. Assays for gold.
3. Ridge road. Analyses, including gold.

1. NUGGET ZONE

WH11243302 - Finalized

CLIENT : "LONGOL - Lonestar Gold Inc."

of SAMPLES : 45

DATE RECEIVED : 2011-11-05 DATE FINALIZED : 2011-12-04

PROJECT : "Lonestar"

CERTIFICATE COMMENTS : ""

PO NUMBER : " "

	Au-AA26		
SAMPLE	Au		
DESCRIPTION	ppm		
74801	0.01	74824	0.02
74802	0.01	74825	0.72
74803	0.02	74826	0.24
74804	2.55	74827	<0.01
74805	0.19	74828	<0.01
74806	20.4	74829	<0.01
74807	7.34	74830	<0.01
74808	11.75	74831	<0.01
74809	0.71	74832	<0.01
74810	0.91	74833	0.03
74811	1.81	74834	1.06
74812	0.14	74835	0.03
74813	0.58	74836	<0.01
74814	4.18	74837	<0.01
74815	3.08	74838	0.82
74816	4.21	74839	8.28
74817	3.6	74840	1.35
74818	0.01	74841	15.1
74819	0.01	74842	0.06
74820	0.03	74843	0.04
74821	0.02	74844	0.02
74822	<0.01	74845	0.02
74823	0.01		

2. LONE STAR TRENCH 87-16

WH11230803 - Finalized

CLIENT : "LONGOL - Lonestar Gold Inc."

of SAMPLES : 65

DATE RECEIVED : 2011-11-05 DATE FINALIZED : 2011-12-07

PROJECT : "Lonestar"

CERTIFICATE COMMENTS : ""

PO NUMBER : " "

Au-AA26

SAMPLE	Au	SAMPLE	Au
DESCRIPTION	ppm	DESCRIPTION	ppm
74953	0.03	74985	0.02
74954	21.3	74986	2.38
74955	0.16	74987	0.18
74956	2.46	75001	0.03
74957	0.01	75002	0.12
74958	0.01	75003	<0.01
74960	0.43	75004	<0.01
74961	0.02	75005	0.02
74962	0.01	75006	0.04
74963	0.19	75007	0.05
74964	0.54	75008	0.04
74965	0.07	75009	0.05
74966	5.03	75010	0.2
74967	0.18	75011	0.9
74968	0.06	75012	<0.01
74969	1.29	75014	2.16
74970	0.4	75015	0.92
74971	0.39	75016	0.02
74972	0.14	75021	0.01
74973	1.01	75022	0.01
74974	0.54	75023	2.11
74975	0.92	75024	5.61
74976	0.07	75025	0.45
74977	3.31	75026	0.91

74978	1.23	75027	0.02
74979	0.57	75028	0.2
74980	0.8	75029	<0.01
74981	0.64	75030	0.04
74982	0.87	75031	0.02
74983	0.76	75032	0.05
74984	3.45		

3. RIDGE ROAD GEOCHEMISTRY ANALYSES, INCLUDING GOLD

SAMPLE	Cumulative distance along road	Ag	Al	As	Ba	Be	Bi
74901	0	0.25	6.7	4.5	2830	2.73	0.21
74903	55	0.3	6.95	8.4	2630	2.69	0.21
74905	126	0.44	7.77	11.4	2380	2.89	0.28
74907	195	0.21	8.34	5.9	3700	3.51	0.29
74909	293	0.15	6.46	4.3	1970	2.25	0.14
74911	399	0.06	7.39	2.9	3980	3.87	0.16
74913	459	0.18	7.79	6.3	3290	3.32	0.23
74915	544	0.09	7.45	3	3680	3.25	0.21
74917	661	0.38	6.66	4.1	2810	3.18	0.15
74919	767	0.02	7.75	2.8	3630	3.66	0.13
74921	869	0.02	9.42	15.6	3760	4.14	0.25
74923	982	0.21	8.25	11.8	3930	4.49	0.31
74925	1109	0.14	6.33	11.6	4320	3.12	0.35
74927	1186	0.19	7.22	4	3000	2.62	0.28
74929	1284	0.12	6.9	6.9	2360	2.8	0.23
74931	1421	0.34	7.16	6.9	3010	2.89	0.3
74949	1621	0.25	9.23	20.5	4100	3.68	0.38
74947	1775	0.11	8.18	4.4	3760	3.85	0.26
74945	1892	0.06	7.49	5	4740	3.15	0.26
74943	2024	0.06	7.47	3.6	4200	3.57	0.27
74941	2205	0.11	5.94	3.8	1600	1.76	0.16
74939	2353	0.11	6.77	4.7	1830	2.25	0.21
74937	2477	0.28	7.48	12.5	3370	2.49	0.31
74935	2611	0.08	8.23	21.1	4180	3.61	0.12
74933	2761	0.09	6.25	6.7	1640	1.98	0.22
74851	2879	0.06	7.33	12.3	1620	2	0.21
74852	2976	0.06	8.06	18.2	1810	1.64	0.14
74853	3059	0.04	8.34	15.4	2310	2.23	0.13
74854	3162	0.2	7.57	11.5	1800	1.86	0.3
74855	3291	0.08	8.02	11.2	2010	2.09	0.25
74856	3440	0.14	7.91	8.8	2260	2.29	0.22
74857	3534	0.15	9.01	6.1	3640	3.11	0.27
74858	3662	0.2	8.88	3.3	2500	3.13	0.21
74859	3752	0.07	9.1	4.8	4160	3.9	0.26
74860	3832	0.33	8.3	11.1	2670	2.55	0.33
74861	3905	0.3	7.37	7.9	2390	1.72	0.18
74862	3999	0.07	8.33	8.4	2730	2.79	0.19
74863	4099	0.27	8.95	7	3270	2.68	0.25
74864	4187	0.31	8.41	9.3	3000	2.62	0.23
74865	4477	0.1	7.36	13.3	1870	1.85	0.23
74866	4519	0.15	7.79	8.8	1750	2.21	0.25
74867	4620	0.25	7.31	14.4	1740	1.81	0.44
74868	4708	0.25	10.05	21.4	3660	2.9	0.24
74869	4793	0.04	9.57	9.6	3630	3	0.12
74870	4881	0.08	9.27	19	3910	2.64	0.38

SAMPLE	Cumulative distance along road	Ag	Al	As	Ba	Be	Bi
74871	4962	0.21	7.57	14.2	2110	1.84	0.68
74872	5042	0.31	8.33	16.7	2820	1.99	0.16
74873	5126	0.13	8.92	36.6	3410	2.83	0.32
74874	5197	0.28	7.44	18.4	2030	1.8	0.27
74875	5277	0.06	7.05	13.3	1920	2.32	0.16
74876	5351	0.2	7.58	110.5	1710	1.93	0.17
74877	5435	<0.01	8.5	7.3	2860	3.09	0.13
74878	5505	0.14	8.03	10.9	2290	2.39	0.19
74879	5576	0.19	8.1	9	2350	2.24	0.17
74880	5650	0.07	8.37	13.7	2500	2.67	0.19
74881	5650	0.22	7.35	11	1910	2.74	0.16
74882	5650	0.06	9.24	8.4	3610	4.19	0.17
74883	5716	0.16	7.07	8	1600	2.85	0.18
74884	5789	0.1	8.75	5.9	2780	4.64	0.17
74885	5865	0.09	7.18	5.3	1960	3.55	0.14
74886	5933	0.06	7.98	9.9	2230	4.48	0.18
74887	6008	0.11	8.81	15.1	2720	5.32	0.18
74888	6077	0.1	11.75	4.4	3450	4.93	0.19
74889	6144	<0.01	9.03	4.3	3390	4.59	0.21
74890	6215	0.08	8.67	7.3	3250	4.97	0.53
74891	6287	0.12	9.39	6	2670	4.96	0.28
74892	6361	0.08	8.51	76.7	3980	4.72	0.18
74893	6441	0.13	9.08	21.3	3120	6.06	0.1
74894	6502	0.11	7.15	12	1740	2.8	0.16
74895	6572	0.16	8	3.6	2940	3.75	0.19
74896	6638	0.05	7.22	6.2	1940	3.41	0.14
73751	6638	0.41	7.68	17.5	3040	2.77	0.13
73752	6704	0.47	7.32	6.8	2660	2.13	0.18
73753	6806	0.18	8	12.5	2320	3.59	0.29
73754	6878	0.76	8.87	12.5	3290	3.52	0.22
73755	6963	0.08	7.23	2.7	2400	3.26	0.21
73756	7060	0.1	7.84	5.9	3060	3.03	0.07
73757	7158	0.25	7.39	26.2	2750	2.37	0.14
73758	7252	0.56	8.79	3.6	3880	3.72	0.47
73759	7340	0.12	8.12	4	4020	3.09	0.17
73760	7396	0.59	8.29	5	4270	3.25	0.47
73761	7489	0.29	8.43	14.5	2640	2.75	0.15
73762	7596	0.14	7.67	2.6	2940	2.44	0.11
73763	7664	0.62	9.09	2.4	6230	3.43	0.2
73764	7729	0.09	8.08	10.1	3790	2.79	0.09
73765	7791	0.26	8.94	4.2	4590	3.53	0.22
73766	7862	0.11	8.42	11.2	3780	3.38	0.34
73767	7925	0.04	9.26	4.3	6170	4.11	0.22
73768	7987	0.17	7.88	6	2970	2.76	0.18
73769	8092	1.91	8.45	73.7	3810	1.82	0.31

SAMPLE	Cumulative distance along road	Ag	Al	As	Ba	Be	Bi
73770	8152	0.98	8.23	47.2	5630	1.63	0.51
73771	8224	0.58	9.12	15.9	3140	2.06	0.47
73772	8285	0.96	9.07	24.3	1660	1.68	0.75
73773	8347	0.42	8.55	29.5	3660	3.14	0.22
73774	8414	0.87	8.53	36.3	2770	2.54	0.78
73775	8478	0.15	8.83	2.1	4170	3.29	0.11
73776	8565	2.46	8.42	23.1	2490	1.96	3.23
73777	8638	0.49	9.41	17.3	3470	3.32	0.39
73778	8708	0.76	8.45	9.3	3040	2.61	0.62
73779	8770	4.1	9.21	23.9	3330	1.74	6.8
73780	8834	0.65	8.87	10.8	5160	2.87	0.4
73781	8900	0.31	7.49	7	1890	1.37	0.28
73782	8968	0.17	8.22	16.6	1970	2.55	0.02
73783	9038	0.19	8.1	10.1	3840	2.56	0.22
73784	9185	0.54	8.68	7.8	3210	3.59	0.28
73785	9254	0.32	8.08	9.5	3500	2.87	0.6
73786	9314	0.35	7.4	5.2	2590	1.79	0.05
73787	9388	0.83	9.34	13.1	3430	2.31	0.27
73788	9448	0.97	9.42	49.5	3540	2.46	0.18
73789	9574	0.37	7.31	30.9	1590	4.03	0.42
73790	9664	0.64	7.89	83.6	3410	1.94	0.1
73791	9754	0.12	7.7	9.2	2880	2.13	0.19
73792	9844	0.09	9.83	6.6	4680	3.01	0.21
73793	9944	0.1	10.1	2.8	5630	3.74	0.46
73794	10018	0.22	11	5.9	6500	4.16	0.36
73795	10081	1.33	9.19	77	2720	1.62	0.2
73796	10148	0.23	9.31	20	3600	3.82	0.25
73797	10217	0.36	10.5	9.1	5700	3.11	0.7
73798	10281	0.29	9.62	9.4	4600	4.86	0.44
73799	10350	0.67	9.99	9	5520	4.84	0.59
73800	10419	0.39	9.08	97.2	3990	4.39	0.44
73801	10489	0.39	7.75	26.1	2900	2.09	0.16
73851	10756	0.62	8.21	30.3	3260	1.67	0.15
73852	10829	0.38	8.38	64.6	4510	2.44	0.15
73853	10891	0.33	7.9	238	3620	1.93	0.2
73854	10976	0.21	10.45	10.1	3630	1.67	0.24
73855	11061	0.17	7.99	51	4150	2.63	0.19
73856	11127	0.14	7.04	20	3290	2.28	0.13
73857	11193	0.14	8.48	21.1	5520	2.76	0.17
73858	11258	0.12	8.69	15	4320	3.06	0.12
73859	11319	0.18	8.15	32.3	4470	2.7	0.14
73860	11381	0.22	6.56	15.1	3060	1.8	0.12
73861	11449	0.24	8.31	52.7	3860	2.59	0.1
73862	11521	0.23	7.59	44.7	3020	1.74	0.13
73863	11585	0.31	8.22	20.6	3560	2.05	0.1

SAMPLE	Cumulative distance along road	Ag	Al	As	Ba	Be	Bi
73864	11655	0.08	8.83	25.7	4200	2.05	0.09
73865	11717	0.1	7.83	37.9	2540	1.77	0.09
73866	11776	0.13	8.5	17.9	4190	1.9	0.04
74951		0.25	7.89	10.2	3180	2.19	0.24

SAMPLE	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
74901	0.28	0.28	95.5	4.8	11	3.71	10.8	1.71
74903	0.68	0.41	106	7.7	29	6.77	21.3	2.45
74905	0.98	0.42	95.5	11.4	52	8.17	31	3.88
74907	1.33	0.45	111.5	11.1	55	11.25	25.9	3.84
74909	0.81	0.21	79.4	5.2	30	3.38	17.1	2.19
74911	0.13	0.16	109.5	2	7	8.34	9.9	2.24
74913	0.88	0.17	105	9.5	30	10.65	18.8	3.53
74915	0.68	0.22	99.8	3.3	14	6.79	9.7	2.12
74917	0.1	0.39	87	1.8	3	11.3	8.6	1.6
74919	0.2	0.19	65.1	1.9	7	7.62	6.5	2.11
74921	0.36	0.22	112	3.5	15	10.85	14.1	2.4
74923	0.27	0.22	128.5	2.2	9	13.9	11.3	2.03
74925	0.92	0.26	94.9	2.6	11	4.93	12.4	2.16
74927	0.18	0.2	78	1.8	7	6.97	6.6	1.93
74929	0.49	0.12	114	3.5	20	6.56	10.6	1.92
74931	0.28	0.21	92.8	5.4	25	8.02	43.1	2.7
74949	0.19	0.09	136.5	3.7	30	15.65	35.5	3.64
74947	0.19	0.08	147	2.5	15	8.44	14.1	2.2
74945	0.06	0.06	93.9	1.2	7	5.05	3.7	1.75
74943	0.05	0.12	81.3	1.4	7	7.06	4.5	1.96
74941	0.95	0.16	130.5	5.2	28	3.07	12.3	1.77
74939	0.69	0.07	121.5	4.1	22	4.99	8.9	1.8
74937	0.33	0.06	109	3.4	31	4.11	44.7	3.1
74935	0.65	0.14	56	10.1	33	7.03	15.6	3.37
74933	0.74	0.07	121	6.9	39	3.23	16.8	2.36
74851	1.12	0.12	81.8	10	64	7.66	27.2	3.95
74852	2.46	0.08	67	15.3	97	5.88	17.4	4.39
74853	1.01	0.08	105.5	8.5	60	12.75	18.6	3.67
74854	1.22	0.13	78.2	9.5	72	7.22	22.3	3.83
74855	1.23	0.18	88.1	8.8	64	5.67	22.3	3.64
74856	1.24	0.1	92	10.6	106	4.61	26.1	3.44
74857	0.47	0.07	121.5	4.1	36	5.36	16.5	2.78
74858	0.29	0.11	158.5	3.1	26	3.21	25.5	2.71
74859	0.28	0.06	93	5	44	9.23	9.2	2.54
74860	0.58	0.31	99.4	8.3	65	7.54	45.2	3.73
74861	0.42	0.16	84.6	4.3	61	5.92	34.7	3.63
74862	0.75	0.14	88.9	7	114	4.25	13.8	3.55
74863	0.59	0.09	103	4.6	60	5.8	15.9	3.72
74864	0.47	0.14	107.5	5.9	49	4.98	10.6	3.25
74865	1	0.07	76.4	10.4	70	3.74	26.7	3.75
74866	0.72	0.07	96.2	8.1	50	3.87	14.3	3.26
74867	1.23	0.3	84	7.9	58	5.9	20.1	3.38
74868	1.46	0.44	93.3	10.6	85	5.67	52.8	4.79
74869	1.69	0.25	92.7	8.9	76	4.96	16.1	4.57
74870	1.02	0.19	75.4	9.6	71	5.03	60.9	4.98

SAMPLE	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
74871	0.9	0.07	78.1	7.8	61	5.35	46	4.21
74872	1.2	0.78	80.5	6.1	63	5.59	49.1	3.53
74873	1.18	0.6	68.2	12	79	9.59	40.2	4.51
74874	0.65	0.19	88.4	12.3	73	5.2	53.1	3.95
74875	0.54	0.06	94.3	7.3	42	3.93	20.9	2.81
74876	1.28	0.18	75.5	14	78	8.66	33.9	4.35
74877	0.36	0.11	53.3	5	24	9.42	7.3	2.33
74878	0.71	0.15	92	10.7	62	12.2	15.8	3.44
74879	0.53	0.11	73	7.7	67	5.3	15.4	3.65
74880	0.5	0.37	90.7	11.9	59	6.91	26.9	3.31
74881	0.8	0.09	106	7.3	37	5.72	25.6	2.64
74882	0.23	0.26	153	2.7	14	11.55	11.4	2.12
74883	0.54	0.14	91.6	6.6	31	4.91	14.4	2.44
74884	0.07	0.04	101	1.1	4	9.97	5.8	1.48
74885	0.2	0.11	172.5	2.1	10	4.92	11.4	1.53
74886	0.12	0.12	308	1.7	7	8.9	14.9	1.72
74887	0.09	0.13	423	1.9	6	10	15.6	1.88
74888	0.04	0.05	191	1.6	3	6.92	9.3	2.18
74889	0.02	0.02	55.9	0.4	2	9.89	5.2	1.71
74890	0.07	0.12	155.5	1.1	4	9.18	9	1.55
74891	0.08	0.07	65.2	0.9	4	9.48	72.7	1.57
74892	0.04	0.08	91.6	0.7	2	11.55	16.8	1.44
74893	0.09	<0.02	52.6	1.4	2	11.85	3.5	1.68
74894	0.68	0.12	106.5	10	42	3.55	18.4	2.86
74895	0.02	0.02	85.5	1.5	6	3.99	6.1	1.6
74896	0.36	0.08	73	5.1	21	3.35	11.6	1.89
73751	0.13	0.11	100	4.5	57	3.41	16.9	4.11
73752	0.3	0.39	87.6	24.2	388	9.18	46.3	5.03
73753	0.24	0.06	62	3.7	19	4.82	12.5	2.21
73754	0.19	0.59	84.9	11.5	67	10.15	40.2	4.15
73755	0.02	0.03	68.6	1.2	4	3.28	4.3	1.25
73756	0.65	0.13	92.3	6.2	26	3.94	19.6	3.25
73757	0.27	0.04	104.5	3.1	23	4.1	21.7	3.16
73758	0.05	0.73	140.5	3.8	6	4.01	30.2	2.47
73759	0.06	0.03	118	1.7	9	3	18.4	2.47
73760	0.07	0.41	55.2	16.1	102	6.47	61.1	4.37
73761	0.81	0.28	95.7	10.5	45	6.02	25.8	3.79
73762	0.09	0.14	117	8.7	39	7.74	24	3.28
73763	0.03	0.03	85.2	0.6	8	3.32	18.4	2.71
73764	0.15	0.02	69.4	1.8	13	1.88	7.3	2.5
73765	0.15	0.07	151	2.4	13	3.79	40.9	2.78
73766	0.21	0.09	90.9	6.6	24	6.11	11.1	2.96
73767	0.1	0.2	98.2	2.8	10	6.4	9.1	2.43
73768	0.41	0.03	120.5	5.1	30	2.89	12.6	2.46
73769	0.2	0.32	73.1	1.1	170	6.78	115.5	4.75

SAMPLE	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
73770	0.27	0.06	55	2.3	136	2.22	8.8	2.15
73771	0.31	0.78	47.7	5	41	16.65	46.8	3.51
73772	0.19	1.01	10.7	15	180	5.04	307	8.39
73773	0.31	1.27	131.5	12.5	55	5.63	37.5	3.69
73774	0.2	2.28	171.5	22.7	89	4.95	101	5.57
73775	0.09	0.03	91.5	1.8	14	9.3	8.2	1.93
73776	0.11	1.07	38.1	3.7	88	2.36	102.5	6.49
73777	0.14	0.07	56.7	1.7	35	3.26	34.4	3.73
73778	0.12	0.23	53.5	3.8	113	3.33	42.6	3.49
73779	0.17	2.05	90.7	6.5	7	10.15	168.5	5.43
73780	0.06	0.44	105.5	2.1	22	2.46	27	3.07
73781	0.34	0.82	78	6.9	28	3.82	17.2	2.94
73782	0.16	0.24	93.4	5.7	26	9.29	13.4	2.67
73783	0.19	0.8	106	8.2	25	4.32	29	2.92
73784	0.19	1.32	110.5	10.1	43	15.85	20.6	3.37
73785	0.18	0.25	76.4	5.4	28	2.22	22.8	3.22
73786	0.47	0.57	81.3	13.1	91	7.59	39.4	4.85
73787	2.07	0.69	70.1	20.8	102	9.71	46.8	5.58
73788	0.52	0.86	90.3	17.3	71	14.2	30.2	5.79
73789	1	0.35	119.5	13.9	67	14.85	24.4	4.61
73790	0.33	0.89	70.1	15.1	126	4.94	40.6	3.98
73791	0.59	0.22	107.5	6.6	38	4.18	11.9	2.79
73792	0.42	0.36	92.5	4	4	5.52	5.2	2.26
73793	0.07	0.12	59.1	0.6	5	16.5	1.8	2.28
73794	0.09	0.15	100.5	2.4	2	16.6	2.4	2.66
73795	0.32	0.7	92.3	31.9	111	11.45	135	7.49
73796	0.2	0.43	190	5.8	17	6.25	6.7	2.29
73797	0.14	0.23	117.5	4	12	11.8	6.2	2.82
73798	0.14	0.39	174.5	2.2	13	13.85	5.2	2.13
73799	0.09	0.57	170	1.2	2	12.7	14.4	2.59
73800	0.1	0.34	121	2.9	20	7.36	19.2	2.44
73801	0.96	0.36	117	10.4	71	6.38	21	3.9
73851	0.98	0.48	95.9	25.5	84	9.74	39.4	4.37
73852	0.26	0.23	110	22	87	9.23	48.7	3.56
73853	0.57	0.31	103	39.4	183	5.03	66.2	5.45
73854	0.34	0.04	53.4	8	30	5.41	16.4	4.55
73855	0.38	0.2	115.5	14.6	35	5.06	33.4	4.35
73856	0.64	0.16	69.4	7.4	36	5.51	10.2	2.74
73857	0.08	0.11	51	2	7	5.79	3.8	2.09
73858	0.23	0.13	110.5	2	11	9.97	6.3	2.01
73859	0.19	0.14	120	1.9	11	9.3	6	1.66
73860	0.29	0.15	49.1	3.3	18	3.61	5.7	1.71
73861	0.16	0.2	142.5	3.6	16	6.26	8.2	2.4
73862	0.52	0.26	67.1	6.5	36	3.9	16.9	3.25
73863	0.53	0.57	96.3	7.5	31	7.94	16.4	3.36

SAMPLE	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
73864	0.24	0.17	78.5	8.4	12	4.73	11.6	3.55
73865	0.47	0.12	64.3	9	35	3.36	13.3	3.55
73866	0.33	0.07	69.2	4.4	15	5.51	6.6	3.14
74951	0.41	1.07	111	5.9	60	8.8	74.9	4.46

SAMPLE	Ga	Ge	Hf	In	K	La	Li	Mg
74901	19.25	0.26	3.5	0.085	2.31	76.2	31	0.46
74903	19.3	0.22	2.7	0.084	2.36	51.4	37.9	0.71
74905	22.5	0.25	3.4	0.095	2.49	49	53	1.07
74907	25.8	0.29	4	0.108	3.97	57.5	61.2	2.27
74909	17.3	0.22	3.2	0.071	2.28	44	24.8	0.66
74911	24.4	0.27	3.3	0.107	2.75	60	41.3	0.72
74913	24.1	0.3	4	0.11	2.94	54.9	51.5	1.18
74915	21.7	0.26	3.3	0.095	3.15	58.8	45.2	0.97
74917	20.7	0.24	3.2	0.081	2.3	54.3	31.8	0.46
74919	24.2	0.2	3.4	0.115	3.2	27.4	35.9	0.86
74921	28.3	0.27	5.3	0.125	5.06	56	45.8	1.47
74923	30.7	0.21	4.3	0.132	5.12	64.6	45.1	1.25
74925	22.9	0.2	2.2	0.116	3.09	38.3	31.9	0.68
74927	21.2	0.17	3.8	0.122	2.78	56.2	30.4	0.7
74929	21.4	0.21	3.3	0.099	3.39	61.3	25.1	0.83
74931	25.1	0.21	2.9	0.095	4.06	44.3	28.8	1.09
74949	29.9	0.22	3.3	0.09	5.37	69	32.9	1.53
74947	26.8	0.19	5	0.13	4.83	51.4	45.7	1.51
74945	22.4	0.16	4.6	0.133	3.62	43.9	20.3	0.9
74943	25.8	0.17	6.2	0.142	4.95	37.9	28.4	1.18
74941	15.05	0.18	3	0.057	2.45	56.4	18	0.53
74939	18.85	0.17	3.2	0.098	3.22	63.7	24.2	0.83
74937	22.3	0.19	2.3	0.079	3.55	57.8	23.6	1.18
74935	29.6	0.13	2.5	0.073	5.09	23.5	39.1	1.68
74933	16.85	0.18	3.1	0.059	2.14	64.8	21.8	0.69
74851	19.45	0.15	2.1	0.059	2	40.8	39.9	1.25
74852	17.7	0.14	1.5	0.051	2.35	32.8	34.1	2.05
74853	23.5	0.13	1.2	0.078	2.69	51.6	41.5	1.59
74854	18.6	0.13	1.6	0.048	1.93	45.3	35.7	1.21
74855	19.9	0.13	1.7	0.06	2.23	43	31.2	1.25
74856	21.8	0.19	2.5	0.074	2.2	43.7	33.5	1.85
74857	25.3	0.19	3.3	0.092	3.69	63.4	35.4	1.41
74858	26.1	0.22	4.8	0.099	4.2	75.8	57.2	1.55
74859	27.7	0.15	1.6	0.114	3.82	35.6	65.9	2.3
74860	22.5	0.17	3.2	0.092	2.94	49.6	54.3	1.4
74861	20.4	0.13	2.9	0.059	3.01	41.6	37.7	1.31
74862	23	0.14	3.3	0.068	3.3	44.2	38	1.47
74863	25.3	0.16	3.5	0.081	4.11	49.7	48.3	1.33
74864	22.3	0.15	1.9	0.083	2.88	49.5	38.2	1.31
74865	17.95	0.12	2.8	0.057	1.7	37.3	33.6	1
74866	20.9	0.16	3.2	0.077	2.66	49.6	37.2	1.19
74867	18.8	0.14	1.6	0.073	1.83	41.5	28.9	1.08
74868	27.2	0.17	3.9	0.1	3.81	46.1	39.3	1.52
74869	25.8	0.16	3	0.076	3.78	44.5	36.3	1.86
74870	25	0.14	3	0.075	3.61	33.4	30.7	1.72

SAMPLE	Ga	Ge	Hf	In	K	La	Li	Mg
74871	19.6	0.12	2.4	0.055	2.19	38.3	36.4	1.56
74872	22.8	0.16	3.6	0.085	2.8	41.5	28.7	1.19
74873	26.2	0.21	4.5	0.1	3.68	31.3	34.3	1.44
74874	19.75	0.19	2.7	0.071	2.04	46.1	34.5	1.19
74875	21	0.21	3.1	0.083	2.66	51.9	24.5	0.99
74876	20.5	0.21	1.9	0.076	1.82	38.9	38.9	1.37
74877	25.5	0.14	4.4	0.088	3.93	22.9	36.9	1.33
74878	20.9	0.2	2.5	0.079	2.16	45.7	35.9	1.36
74879	23.2	0.17	2.5	0.079	2.35	41.4	30.6	0.98
74880	24.1	0.19	2.7	0.1	2.72	45.4	39.4	0.88
74881	21.4	0.21	3.6	0.085	3.12	42.9	41.7	1.06
74882	29.3	0.24	4.4	0.133	4.54	66.7	45.8	1.35
74883	20.4	0.2	3.3	0.084	2.28	42.1	29.5	0.82
74884	29.3	0.19	4	0.125	3.98	41.4	47.1	0.98
74885	22.6	0.28	4.2	0.091	2.77	95.1	28.3	0.64
74886	27.1	0.38	5	0.111	3.9	137	32.5	0.86
74887	31.6	0.2	5	0.121	5.08	47.7	46	0.95
74888	33.7	0.22	6.4	0.125	5.17	47.1	49.6	1.58
74889	31.4	0.13	5.9	0.136	5.76	22.1	54.2	1.59
74890	28	0.2	3	0.118	4.36	50.1	48.9	1.17
74891	29.1	0.24	5.2	0.12	5.27	43.5	93	1.52
74892	27.7	0.25	5.3	0.122	6.26	61.3	61	1.32
74893	32.3	0.21	6.1	0.149	5.4	28.7	60.5	1.13
74894	21	0.24	3.4	0.083	2.77	59.4	33	1.12
74895	24.5	0.2	4.5	0.11	4.11	36.9	27.5	1.15
74896	21.3	0.19	3.9	0.085	3.44	32.4	34.6	1.01
73751	22.9	0.16	1	0.077	3.16	50.8	20.9	0.63
73752	21.5	0.17	3.4	0.078	2.3	43.6	50.1	2.91
73753	26.2	0.13	4.3	0.134	4.47	24	37	1.36
73754	29.3	0.19	3	0.106	3.93	45.1	45.3	1.08
73755	22	0.13	4.6	0.1	4.2	16.9	26.6	1.22
73756	24.3	0.18	3.4	0.071	4.05	48.6	34.5	1.45
73757	20.8	0.15	2.7	0.104	3.38	56.9	25.1	0.9
73758	28.9	0.24	4.1	0.124	4.58	66.4	32.3	1.5
73759	26	0.21	3.6	0.106	4.02	54	34	1.47
73760	30	0.15	4.3	0.123	4.18	22.7	51.8	1.88
73761	24.4	0.16	2	0.079	3.36	47	48.5	1.53
73762	21.4	0.22	3.6	0.075	4.53	62	35	2.21
73763	30	0.15	4.2	0.151	5.09	39.8	26.1	1.14
73764	24.9	0.14	3.5	0.125	4.45	33.9	21.9	1.23
73765	27.9	0.25	2.8	0.123	4.95	72.6	39.6	1.71
73766	25.1	0.18	1	0.076	3.63	48.2	27	1.21
73767	29.9	0.15	2.8	0.136	5.49	35.3	45.6	1.41
73768	22.5	0.22	4	0.098	3.24	57.4	35.3	1.15
73769	22.2	0.16	4.5	0.107	3.44	36	49.4	1.34

SAMPLE	Ga	Ge	Hf	In	K	La	Li	Mg
73770	19.45	0.13	3.8	0.061	4.87	26	19.5	1.73
73771	25.2	0.13	4.3	0.098	4.58	20.4	49.1	1.46
73772	20.1	0.12	0.8	0.135	2.25	4.2	63.9	4.62
73773	26.3	0.22	2.9	0.103	3.94	59.8	46.4	1.49
73774	24.1	0.22	5.1	0.134	2.73	67.8	51.9	1.75
73775	27.5	0.16	5.7	0.121	4.44	40.1	40.8	1.35
73776	23.5	0.13	2.3	0.155	3.53	17.2	35.5	4.29
73777	29.3	0.15	5.5	0.112	5.9	23.4	44.6	1.76
73778	24.2	0.14	3.6	0.117	4.16	23.3	29.4	2.39
73779	23.4	0.23	2.5	0.456	4.21	42.4	54.1	2.44
73780	25.8	0.16	4	0.11	5.05	48.7	38.9	1.5
73781	16.85	0.16	2.6	0.087	2.29	43.8	26.6	1.53
73782	23.1	0.18	3	0.075	4.52	49.3	40.9	1.09
73783	23.3	0.17	3.8	0.097	4	53.1	44.4	1.52
73784	30	0.2	3.7	0.145	5.27	47.4	63.6	1.47
73785	24	0.14	2.7	0.092	4.53	40.1	27.5	1.26
73786	19.8	0.19	2	0.066	3.1	42.9	39.5	1.84
73787	25.2	0.18	1.1	0.074	3.7	36.5	108.5	1.84
73788	27.5	0.21	0.7	0.109	4.31	44.7	62.4	1.97
73789	17.35	0.22	2.8	0.056	1.73	79.3	43.9	1.01
73790	19.5	0.12	0.6	0.066	2.58	23.3	31.4	1.29
73791	19.95	0.14	1.2	0.057	2.06	42.3	46	1.33
73792	29.6	0.13	0.7	0.094	3.04	31.1	36.3	1.83
73793	33.2	0.17	0.8	0.104	5.44	29	63.4	1.78
73794	40.1	0.28	0.9	0.133	5.09	57.5	77	1.94
73795	23.3	0.3	0.4	0.091	2.73	64.9	48.5	2.71
73796	26.4	0.25	2.4	0.109	3.61	64.3	33	0.88
73797	30.2	0.17	1.2	0.099	3.99	40.9	79.6	2.13
73798	30.8	0.19	2.3	0.132	5.24	57.6	61	1.31
73799	34.8	0.32	1.4	0.171	4.24	76.7	77.4	2.43
73800	29	0.22	4.5	0.113	4.11	55.8	43.2	1.15
73801	20.2	0.28	1.7	0.055	2.62	93.5	37.5	1.06
73851	22.3	0.21	0.9	0.079	2.53	52	39.6	1.38
73852	23.6	0.25	0.4	0.096	2.74	63.4	47.4	1.35
73853	21.5	0.24	1.7	0.104	2.08	47.7	62.4	1.78
73854	21.5	0.14	0.7	0.073	3.48	28.3	38.8	1.27
73855	24	0.31	2	0.091	2.75	71.5	52.8	0.89
73856	22	0.21	2.2	0.089	2.69	31.8	38.7	0.9
73857	25.1	0.11	2.1	0.104	4.29	20.4	29.8	0.8
73858	24.9	0.15	1.1	0.107	3.42	36	26.5	0.66
73859	22.5	0.2	1.5	0.1	3.47	68.7	24.9	0.62
73860	15.75	0.1	1.7	0.061	2.54	22.4	21.3	0.44
73861	24.4	0.2	2.5	0.093	3.57	65.8	34.2	0.77
73862	19.55	0.17	1.3	0.085	2.1	34.1	29.6	0.83
73863	22.7	0.19	1.7	0.136	2.99	43.6	34.9	1.09

SAMPLE	Ga	Ge	Hf	In	K	La	Li	Mg
73864	23.6	0.16	1.6	0.092	3.55	32.5	31.2	1.1
73865	19.05	0.15	1.8	0.063	2.34	34	24.9	0.86
73866	22.6	0.19	1.5	0.072	3.04	36	26.7	0.9
74951	23.3	0.2	3.3	0.093	4.22	59.2	27.5	2.58

SAMPLE	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
74901	541	0.57	2.83	14.4	5.6	250	30.7	124
74903	385	0.68	1.7	15.6	13.4	290	23.2	135
74905	599	0.96	1.38	15.3	20.8	760	27.4	139
74907	487	1.14	1.05	20	23.3	970	31.7	186
74909	257	0.45	2.04	14.1	11.6	330	18.3	102.5
74911	239	0.29	2.31	17.7	4.8	100	10.3	165
74913	474	0.55	1.44	16.6	15.7	390	23.1	166.5
74915	265	0.32	1.76	18.3	6.3	130	24.9	168.5
74917	274	0.18	2.58	13.6	2.5	130	32.4	153
74919	181	0.35	2.35	18.8	4	80	18	184.5
74921	266	0.62	0.8	23.3	7.8	290	30.1	211
74923	393	0.54	0.78	19.2	5	140	71	189.5
74925	333	0.4	1.73	16.3	5.4	90	42.4	129.5
74927	199	0.28	2.44	16.5	3.1	170	20.1	166
74929	439	0.55	1.38	14.9	9.6	150	29.6	176.5
74931	446	0.81	1.59	16	10.2	460	40.3	155
74949	282	1.66	0.71	18	8.4	640	33.9	196
74947	318	0.57	1.03	20.5	6.1	100	62.4	188
74945	174	0.34	1.91	16.9	2.8	80	20.5	199.5
74943	200	0.37	0.99	19.8	2.9	100	24.1	184.5
74941	521	0.48	1.43	12.8	10.6	130	33.4	110
74939	310	0.43	1.26	13.9	9.9	200	25.9	158
74937	281	0.71	1.48	12.5	9.1	410	25.4	151.5
74935	495	0.9	0.89	11.4	12.2	380	19.6	129.5
74933	500	0.6	1.47	13.6	16.4	140	36	110.5
74851	383	0.66	1.24	12.5	25.5	330	21	97.1
74852	703	0.44	1.61	10.9	28.5	520	13.5	87.4
74853	492	0.37	2	16	17.9	690	27	119
74854	521	0.92	1.38	12.7	20.7	310	32	100
74855	388	0.61	1.5	12.8	17.7	160	41.5	111
74856	407	0.73	1.28	14.4	34.3	200	26.7	87.7
74857	296	1.31	1.48	13.7	12.3	210	43.4	167.5
74858	345	0.89	1.64	18.2	7.3	250	92.1	192
74859	256	0.42	1.07	17.8	13.7	110	52.6	134.5
74860	487	1.79	1.23	11.7	23.1	370	108.5	149.5
74861	364	1.93	0.96	6.9	11.9	340	111	165.5
74862	494	0.76	1.65	13.2	12.8	220	45	153
74863	357	0.98	1.14	8.1	12.6	330	85.3	190.5
74864	244	1	0.94	14.3	16.5	190	29.3	127.5
74865	418	1.26	1.43	12.1	25.5	210	33.1	87
74866	315	1.22	1.27	13.8	19.8	170	38.6	120.5
74867	419	0.79	1.45	12.3	18	200	115	105
74868	558	2.49	1.13	7.7	19	540	195.5	174
74869	670	0.85	1.22	12.9	15.2	280	16	160
74870	641	1.3	1	15	14.8	430	23.6	164.5

SAMPLE	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
74871	566	1.87	1.34	11.3	19	360	36.3	106.5
74872	708	1.48	1.48	12.2	14.3	420	345	148.5
74873	592	2.47	0.92	7.3	20.6	440	143.5	153
74874	549	1.2	1.32	12.4	26.1	340	30	98.1
74875	341	1.09	1.3	15.7	16.4	150	51.9	113.5
74876	516	1.51	1.38	12.7	32.3	530	21.4	89.8
74877	229	0.73	1.17	16.5	9.3	230	29.9	152.5
74878	406	1.02	1.24	14.1	22.6	230	24.4	112
74879	300	1.67	1.62	14.2	16.5	480	25.9	118
74880	360	1.76	1.62	14.2	22.8	280	85.2	148.5
74881	356	1.21	1.22	14.4	19.2	380	42.8	152
74882	242	1.04	1.25	18.4	6.9	120	127.5	236
74883	305	1.14	1.78	12.7	14.8	250	158.5	164.5
74884	160	0.74	1.79	15.3	2.2	80	43.3	249
74885	238	0.84	2.47	12.2	5	90	148.5	190
74886	335	1.21	1.64	17.4	4.2	120	183.5	261
74887	533	1.64	1.01	20.9	3.1	90	215	324
74888	255	2.58	1.38	18.2	1.7	80	72.2	291
74889	158	2.9	0.45	23.7	1	80	97.8	135.5
74890	229	1.96	1.78	18.7	2.1	70	121.5	225
74891	140	18.5	0.77	17.5	2	60	204	215
74892	181	4.08	0.1	18.4	1.2	70	168	280
74893	291	2.02	0.51	19.3	2.2	50	24.9	299
74894	373	1.16	1.21	14.4	20.5	210	36.4	123
74895	182	0.72	1.83	13.9	2.8	100	24.1	180.5
74896	255	0.61	1.36	14.3	12.1	160	48.4	167.5
73751	324	1.43	1.91	4.7	12.3	670	15.4	175.5
73752	1020	1.88	1.56	8.6	36.6	790	72.4	68.8
73753	215	1.86	0.93	16.7	10	140	86	189
73754	553	0.91	2.08	13.9	16.3	930	277	191
73755	107	0.24	0.98	12.4	2.8	70	18.9	199
73756	421	0.31	1.24	8.3	9.5	430	19	142
73757	279	1.73	1.29	14.1	7.9	280	312	178.5
73758	617	0.71	1.35	17.7	5.4	190	69.2	181.5
73759	252	1.24	1.47	16.9	3.2	210	52.9	150
73760	1120	3.23	1.35	6.4	15.7	500	213	122.5
73761	690	0.84	1.23	12.2	17.7	310	50.9	125.5
73762	358	0.94	0.6	8.5	13.8	370	28.9	164.5
73763	333	0.8	1.54	17.1	3.3	180	148.5	168
73764	330	0.9	1.44	19	5.2	160	27.8	174.5
73765	356	1.51	0.97	22.1	6.4	190	130.5	167.5
73766	400	0.44	1.8	13.4	8.3	210	49.5	146
73767	351	0.46	1.12	22.3	5.2	130	40.8	170.5
73768	275	0.68	1.51	14.2	12.4	170	40.3	127
73769	206	3.8	1.3	8.9	40.8	1000	803	123

SAMPLE	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
73770	281	4.79	0.5	9.9	10.1	410	370	175.5
73771	342	1.84	0.55	10.3	10.6	450	476	146
73772	1560	0.4	1.72	2	54	430	597	37.3
73773	874	1.78	1.49	13.9	23.1	400	61.4	143.5
73774	1820	1.88	2.46	13	32.7	810	435	83.7
73775	263	0.86	1.75	18.6	5.9	190	25.4	158.5
73776	985	2.26	0.78	3	18.5	520	768	67.9
73777	256	6.61	0.58	10.2	6.6	430	212	147
73778	486	1.94	1.42	7.9	12.4	460	186	95
73779	993	4.73	1	5.7	5.3	1030	1985	157.5
73780	439	2.13	1.61	19.8	6.7	390	258	188.5
73781	698	0.79	3.22	6.9	10.5	860	120.5	109
73782	378	0.61	1.23	13.3	9	610	33	159.5
73783	859	1.74	1.82	15.2	10.2	530	116	142
73784	2190	4.57	0.95	15.2	21	520	50.7	143
73785	520	1.02	1.68	13.9	10.2	650	45.2	168
73786	1080	0.89	1.41	10.5	24.9	1280	16.7	103.5
73787	1540	1.72	1.15	11.6	28.8	880	35.7	90.7
73788	474	1.26	0.98	14.6	20.6	1320	26.9	138.5
73789	824	5.4	1.44	14.8	36.9	1000	32.2	82.2
73790	988	1.21	1.43	10.7	34.4	940	14	107
73791	379	1	1.52	13.1	15.1	280	22.5	88.2
73792	180	1.79	2.16	13.4	1.4	130	27	74.2
73793	118	0.89	0.81	15.5	1.9	90	45	177.5
73794	277	1.19	1.46	18.6	1.8	260	39.7	165
73795	2010	1.45	1.48	9.3	33.8	890	23.4	72.8
73796	522	2.38	2.21	16.9	7.9	550	50.6	136.5
73797	470	0.57	1.93	14.4	3.6	200	56.6	123.5
73798	415	1.16	1.02	22	7.1	280	64.7	167
73799	1040	0.79	0.93	23.8	2.4	140	149.5	137.5
73800	270	6.55	1.75	16.4	9.7	180	53.6	163.5
73801	1560	2.46	1.48	10.8	25.8	660	29.8	117.5
73851	1280	1.24	1.5	13.6	35.9	640	16.6	99.8
73852	661	0.67	1.33	18.4	30.5	450	23.7	104
73853	972	4.85	0.92	9.6	77.2	410	27.4	70.2
73854	397	0.36	1.47	7.4	18.3	270	18.9	123
73855	996	2.04	1.11	16.3	25.1	450	23.2	108.5
73856	393	1.03	1.04	14.1	17.6	260	24.6	113
73857	235	1.39	1.05	12.9	3.6	140	17.6	144.5
73858	221	0.67	1.64	14.3	5.4	60	22	189
73859	299	1.03	1.02	11.7	5.1	140	21.6	150
73860	307	0.61	1.7	10	7.4	160	18.7	111.5
73861	522	1.88	1.29	12.8	6.4	170	41.2	155
73862	385	1.76	1.86	11.5	14.6	310	19.5	89.1
73863	477	0.86	1.54	12.8	14.1	350	23.8	113

SAMPLE	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
73864	666	0.43	1.7	11.1	8.9	340	18.7	107.5
73865	447	0.94	1.65	9.5	14.1	290	13	84.8
73866	239	0.43	1.71	10.9	5.4	300	11.9	104
74951	890	0.92	0.85	14.8	16.1	960	258	182.5

SAMPLE	Re	S	Sb	Sc	Se	Sn	Sr	Ta
74901	<0.002	<0.01	0.99	13.1	2	3.1	67.1	1.05
74903	<0.002	0.01	1.76	15.5	2	2.9	124.5	1.14
74905	<0.002	<0.01	1.76	20.9	2	3.1	146.5	1.02
74907	0.002	<0.01	1.48	25	2	3.7	143	1.34
74909	<0.002	<0.01	1.01	14.4	2	2.5	143	1
74911	<0.002	<0.01	1.37	17.3	2	3.9	46.2	1.21
74913	<0.002	<0.01	1.21	20.5	2	3.4	112.5	1.07
74915	<0.002	<0.01	1.6	15.3	2	3.6	126.5	1.34
74917	<0.002	<0.01	0.93	12.6	2	3	36.7	0.92
74919	<0.002	<0.01	0.91	17.3	2	4.3	51.5	1.31
74921	<0.002	<0.01	1.98	19	2	4.5	88.8	1.66
74923	<0.002	<0.01	2.37	12.8	3	4.8	60.8	1.42
74925	0.002	<0.01	2	10.7	4	4	111.5	1.24
74927	0.002	<0.01	0.91	11.3	1	3.8	50.1	1.18
74929	0.002	<0.01	1.43	11.2	2	3.6	104.5	1.08
74931	<0.002	0.08	2.28	10.9	2	4.4	85.5	1.2
74949	<0.002	0.31	3.8	14.2	2	4.2	113.5	1.26
74947	0.002	<0.01	2	13.2	1	5.3	60.2	1.58
74945	<0.002	0.02	1.38	12.5	1	4.4	53.9	1.13
74943	<0.002	<0.01	1.57	11.6	3	5	30.1	1.5
74941	<0.002	<0.01	1.93	9.2	1	2.3	170.5	1.01
74939	0.002	<0.01	1.65	9.9	1	3.2	124	1.07
74937	<0.002	0.19	3.41	12.2	4	3.3	106	0.84
74935	<0.002	0.01	5.36	13	3	3.4	80.3	0.83
74933	0.003	<0.01	1.25	11.1	2	2.4	144.5	1.02
74851	0.005	<0.01	3.33	17.3	<1	2.1	208	0.9
74852	0.005	<0.01	8.95	19.4	1	1.8	286	0.8
74853	0.003	<0.01	3.77	19.6	<1	2.6	140.5	1.16
74854	0.005	<0.01	2.47	14.1	<1	2.1	210	0.91
74855	0.002	<0.01	6.76	14.7	<1	2.3	205	0.99
74856	<0.002	0.01	1.69	16.5	2	2.9	223	1.01
74857	0.006	0.01	1.53	12.5	<1	4.3	102.5	1
74858	0.002	0.01	1.41	12.3	<1	4.4	61.4	1.38
74859	0.005	<0.01	1.04	12.4	1	5.1	64.9	1.47
74860	0.003	0.02	1.63	14.4	<1	3.4	114	0.71
74861	0.004	0.04	1.74	12.5	<1	2.4	73.5	0.43
74862	0.004	0.01	1.99	12.9	<1	3.3	115	1.02
74863	0.005	0.07	3.48	16.8	<1	3.5	117	0.46
74864	0.004	0.01	1.47	10.8	<1	3.5	103	1.14
74865	0.004	0.01	1.58	14	<1	2.3	201	0.88
74866	0.004	0.01	1.11	12	<1	3.1	138	0.95
74867	0.002	<0.01	3.73	13.7	<1	2	180	0.95
74868	0.003	0.02	3.74	19.6	<1	3.2	112	0.54
74869	0.002	<0.01	1.87	19.3	<1	3	146	0.9
74870	0.002	0.01	2.02	17.3	<1	3.1	83.7	1.09

SAMPLE	Re	S	Sb	Sc	Se	Sn	Sr	Ta
74871	0.006	0.04	2.67	13	<1	2.6	166	0.84
74872	<0.002	<0.01	5.09	17.5	2	3.4	116	0.86
74873	<0.002	0.01	5.16	22.7	2	3.4	95.2	0.5
74874	<0.002	0.01	1.68	18.2	2	2.6	138.5	0.85
74875	<0.002	0.01	1.37	14.9	1	3.1	124.5	1.13
74876	<0.002	0.01	5.7	19.9	2	2.5	214	0.86
74877	<0.002	0.01	1.44	8.3	1	4.5	81	1.13
74878	<0.002	0.01	1.68	15.9	2	3.2	147	1.05
74879	<0.002	0.09	2.17	17.2	2	3.2	133	1
74880	<0.002	0.01	1.99	16.9	2	3.3	113	1
74881	<0.002	0.01	2.15	15	2	3.4	145.5	1.04
74882	<0.002	<0.01	2.57	15.1	2	5.2	65.3	1.38
74883	<0.002	0.01	1.46	12.5	2	3.5	104.5	0.92
74884	<0.002	<0.01	1.77	11.5	1	6.2	30	1.1
74885	<0.002	<0.01	2.46	11.6	2	4.1	56.6	0.82
74886	<0.002	<0.01	3.34	12.6	2	5.1	43.5	1.38
74887	<0.002	<0.01	3.86	12.6	2	6	38.9	1.63
74888	<0.002	0.01	1.72	10.8	2	7.1	31.1	1.18
74889	<0.002	<0.01	2.42	8.3	1	6.4	16	1.82
74890	<0.002	<0.01	2.9	12.2	2	5.8	26.5	1.45
74891	<0.002	<0.01	3.33	10.6	2	6	22.7	1.3
74892	<0.002	<0.01	3.18	13.2	2	5.1	35.5	1.53
74893	<0.002	<0.01	2.02	13.9	2	6.9	23.4	1.53
74894	<0.002	0.01	1.5	17	2	3.2	144.5	0.94
74895	<0.002	0.01	1.26	11.4	1	6	17.1	0.71
74896	<0.002	<0.01	0.88	13	1	3.6	80.7	0.98
73751	0.002	0.35	1.55	19.6	2	2.5	132	0.24
73752	<0.002	0.01	2.74	20.1	1	2.4	75.1	0.62
73753	0.002	0.01	1.91	10.7	1	5.1	59.8	1.27
73754	0.002	0.21	3.08	18.7	3	3.9	75.1	0.96
73755	0.003	<0.01	0.97	7.9	2	4.4	19.1	0.79
73756	0.003	<0.01	2.46	13.3	2	2.7	107	0.39
73757	0.002	0.07	3.49	12.4	2	3.3	90.7	0.75
73758	0.002	<0.01	1.26	11.1	3	5.1	34	1.36
73759	0.002	0.01	1.35	12.5	2	4.5	33.1	1.03
73760	<0.002	0.01	6.04	16.7	3	4.3	47.1	0.33
73761	<0.002	0.01	4.14	16.1	2	2.7	126	0.8
73762	<0.002	<0.01	0.89	12.7	2	2.4	27.1	0.42
73763	<0.002	0.08	1.87	14.3	<1	5.3	48.8	0.69
73764	0.002	0.02	0.78	12.4	2	3.7	69.1	1.12
73765	<0.002	0.01	2.01	13.8	2	4.7	53	1.66
73766	<0.002	<0.01	1.77	10.8	1	3.8	62.4	0.94
73767	0.002	<0.01	1.42	14	1	5	60.1	1.52
73768	0.003	<0.01	1.14	12.1	3	3.5	97	0.92
73769	<0.002	0.48	5.41	19.4	3	2.6	113	0.49

SAMPLE	Re	S	Sb	Sc	Se	Sn	Sr	Ta
73770	<0.002	0.27	4.43	20.9	3	2.4	66.9	0.46
73771	0.003	0.38	2.81	16.4	4	4.2	91.2	0.69
73772	<0.002	0.04	2.16	35.4	4	4.8	49.9	0.13
73773	0.003	0.01	1.27	17.3	2	3.6	73.8	0.84
73774	<0.002	0.01	1.95	23.5	3	4.5	64.8	0.77
73775	<0.002	<0.01	0.7	12.9	3	6.3	37.7	1.37
73776	<0.002	0.07	2.23	25.8	2	8.7	31.9	0.17
73777	0.002	0.06	3.46	15	4	7.9	47.7	0.59
73778	<0.002	0.17	3.9	23	2	4.5	84.3	0.55
73779	0.002	0.79	1.73	16.6	7	13.8	258	0.42
73780	0.002	0.17	0.94	12.9	1	4.2	84.2	1.13
73781	<0.002	<0.01	0.64	9.8	<1	2.2	50.6	0.41
73782	0.002	<0.01	0.93	11.2	2	3.1	21.9	0.98
73783	0.003	0.01	0.96	12.8	4	3.4	51	1.06
73784	<0.002	<0.01	1.62	13.5	5	6.1	33	1.09
73785	0.003	<0.01	1.89	12.1	3	3.6	35.9	0.97
73786	0.002	<0.01	0.79	20.7	2	2.2	44.5	0.63
73787	0.003	0.01	1.41	28.3	2	2.5	75.7	0.8
73788	0.003	0.03	2.69	30.3	<1	2.9	59.7	1.04
73789	0.003	0.02	1.91	16	<1	1.9	234	0.87
73790	0.005	0.01	1.15	17.7	<1	2	43.4	0.8
73791	0.006	0.01	1.24	12.2	<1	2.8	145	0.97
73792	0.002	<0.01	2.37	12.3	<1	4.8	90.8	1.13
73793	0.004	<0.01	1.2	6.7	<1	5.4	29.8	1.63
73794	0.006	0.01	1.86	12	<1	7.9	49.4	1.71
73795	0.004	0.01	3.4	40	3	1.9	39.2	0.7
73796	0.003	0.02	1.67	13.2	<1	4.8	64.6	1.23
73797	0.005	<0.01	2.42	12.4	<1	7.1	79.5	1.32
73798	0.003	<0.01	1.65	13.1	<1	7.1	52.3	1.7
73799	0.005	<0.01	2.91	14.7	<1	7.3	68.8	1.91
73800	0.005	0.02	2.91	13.6	4	5.3	42.9	1.16
73801	0.003	0.01	1.39	15.5	<1	2.4	155	0.77
73851	0.002	0.01	6.84	28.4	3	2.3	118	1.01
73852	<0.002	<0.01	3.21	27.1	3	2.8	46.8	1.32
73853	<0.002	0.01	3.27	31.9	3	2.3	126	0.75
73854	<0.002	0.01	2.9	16.5	1	2.3	53.8	0.51
73855	<0.002	0.01	2.68	25.3	3	3.1	145.5	1.06
73856	<0.002	0.01	2.14	18	2	2.8	130	1.09
73857	0.003	0.02	1.93	14.7	2	3.4	55.2	0.92
73858	<0.002	<0.01	2	11.2	1	3.5	61.7	1.13
73859	<0.002	<0.01	3.19	10.5	2	3.5	69	0.98
73860	0.003	<0.01	1.26	7.4	2	2.3	76.4	0.84
73861	0.002	0.01	2.62	13.5	2	3.3	59.9	1.01
73862	<0.002	0.03	1.68	16.2	1	2.2	115.5	0.82
73863	<0.002	<0.01	1.65	18.2	3	3.2	105.5	0.92

SAMPLE	Re	S	Sb	Sc	Se	Sn	Sr	Ta
73864	0.002	<0.01	1.06	20.7	2	2.4	58.3	0.77
73865	<0.002	<0.01	1.27	15.3	2	1.9	104	0.68
73866	<0.002	<0.01	1.48	17.4	1	2	64.9	0.77
74951	0.002	0.23	1.81	13.7	3	2.9	120	1.1

SAMPLE	Te	Th	Ti	Tl	U	V	W	Y
74901	<0.05	14	0.172	0.64	4.9	21	3.2	41.1
74903	<0.05	14.1	0.289	0.74	4.2	51	2.7	30.9
74905	<0.05	13.9	0.428	0.8	3.6	86	5.8	28
74907	0.05	14.6	0.496	1.22	5.2	80	2.5	44
74909	<0.05	13.3	0.323	0.56	3.6	54	2.2	24.3
74911	<0.05	18.2	0.168	0.96	4.1	17	4.8	30.7
74913	<0.05	15	0.416	0.97	3.3	63	4	31
74915	<0.05	16.6	0.247	0.9	4.3	30	2.5	31.6
74917	<0.05	12.9	0.116	0.8	4.3	9	3	30.8
74919	<0.05	14.6	0.169	0.99	3.8	17	1.9	19
74921	<0.05	19.4	0.266	1.2	5.1	30	3	25.7
74923	<0.05	20.1	0.152	1.57	5.6	18	3.1	31.5
74925	0.06	14.9	0.174	1.15	5.2	21	3.2	24.8
74927	<0.05	17.6	0.158	0.99	5.3	13	3	26
74929	<0.05	20	0.202	0.98	4.4	38	2.4	25.1
74931	<0.05	17.6	0.297	1.11	4.6	38	4.5	16.5
74949	0.05	27.1	0.38	1.41	7.4	47	7.3	17.1
74947	<0.05	24.3	0.206	1.21	4.8	26	4.1	19.6
74945	<0.05	17	0.137	1.16	5.1	13	3.5	16.7
74943	<0.05	13.1	0.151	1.39	6.4	12	2.9	12.8
74941	0.05	16.1	0.3	0.61	3.4	51	2.4	20.6
74939	<0.05	21.6	0.236	0.77	3.8	40	2.4	20.8
74937	0.07	21.1	0.308	0.85	5.1	49	4.3	14.6
74935	<0.05	13.7	0.282	1.38	4.8	51	5.9	20.8
74933	<0.05	18.7	0.307	0.68	2.8	71	2.6	20.4
74851	<0.05	12.7	0.44	0.69	2.9	112	3	27.3
74852	<0.05	9.9	0.615	0.66	2.9	133	3.7	25.7
74853	<0.05	16.5	0.555	0.82	3.6	94	2.7	32.1
74854	<0.05	12.3	0.474	0.73	2.9	116	2.1	22.4
74855	<0.05	13.3	0.455	0.81	3.2	107	4.5	20.5
74856	<0.05	13.8	0.408	0.72	3.5	103	2.7	26.9
74857	<0.05	20	0.283	1.12	5	62	3.3	18.7
74858	<0.05	22.3	0.283	1.18	6.7	45	3.2	16
74859	<0.05	19.4	0.23	1.22	2.6	51	3.2	18.6
74860	<0.05	16.4	0.331	0.95	6	99	2.4	17.9
74861	<0.05	12.4	0.286	1.08	3.7	90	2.7	9.5
74862	<0.05	17	0.364	1.2	5.7	80	2.8	26.6
74863	0.05	17	0.23	1.37	5.8	84	3.2	14.7
74864	<0.05	15.3	0.316	0.99	2	83	2.8	9.7
74865	<0.05	12.4	0.418	0.62	3	123	1.6	19.3
74866	<0.05	15.8	0.345	0.74	3.6	93	2	16.6
74867	<0.05	12.3	0.451	0.83	3	100	2.8	22
74868	<0.05	14.9	0.321	1.28	5.2	114	2.7	23.8
74869	<0.05	16.1	0.447	1.15	5.1	96	3.4	28.3
74870	<0.05	14.2	0.497	1.15	5	94	4.6	22.5

SAMPLE	Te	Th	Ti	Tl	U	V	W	Y
74871	0.08	13.4	0.387	0.79	3.6	95	1.8	15.4
74872	0.05	12.2	0.389	1.02	3.5	91	3.2	19.8
74873	0.05	12.7	0.283	1.33	4.6	104	3.1	25
74874	0.05	13.1	0.416	0.7	3.4	113	2.1	21.3
74875	<0.05	16.2	0.315	0.79	2.8	80	1.9	15.2
74876	<0.05	12.5	0.454	0.87	3	133	3.7	27.9
74877	<0.05	18.6	0.192	1.09	3.9	41	3	15.8
74878	0.05	17.5	0.374	0.82	2.9	103	2	20.6
74879	<0.05	13.5	0.425	0.87	4.1	99	4.1	10.3
74880	<0.05	15.4	0.393	0.96	3.1	96	2.8	19.8
74881	<0.05	17.6	0.263	0.83	4.4	68	2.4	23.2
74882	<0.05	23.7	0.162	1.34	5.2	30	4.2	22.6
74883	<0.05	15.9	0.234	0.83	4.4	63	2.2	14.2
74884	0.05	17.7	0.084	1.38	3.8	10	3.4	15
74885	<0.05	20.8	0.117	0.98	6.3	21	2.4	25.8
74886	<0.05	26.3	0.12	1.38	6.7	17	3.1	48.3
74887	<0.05	29.4	0.124	1.74	5.6	13	4	22.8
74888	<0.05	31.1	0.091	1.4	6.3	6	4.1	15.5
74889	<0.05	15.4	0.093	1.68	7.1	3	4.4	13.3
74890	<0.05	20.2	0.097	1.42	3.8	8	2.5	21.4
74891	<0.05	19.5	0.092	1.39	6.5	9	3	28.3
74892	<0.05	25.2	0.079	1.83	8.6	4	3.8	30.9
74893	<0.05	23.4	0.091	2	6.7	7	3	27.7
74894	<0.05	16.6	0.296	0.7	3.4	81	2.1	18.3
74895	<0.05	18.6	0.076	0.97	3.9	11	2.5	9.6
74896	<0.05	19.1	0.174	0.86	3.3	41	2.2	13.8
73751	<0.05	15.9	0.159	1.03	3	73	3.6	8.7
73752	<0.05	12.8	0.324	1.14	5.5	123	2.7	22.6
73753	0.11	22	0.178	1.32	4.3	35	2.4	13.2
73754	<0.05	20.3	0.369	1.43	5.4	77	3.5	24.6
73755	<0.05	15	0.068	1.18	4.5	7	2	8.8
73756	<0.05	18.9	0.234	0.8	3.3	48	2.4	17.4
73757	<0.05	29.9	0.226	1.02	3.4	41	2.2	12.3
73758	<0.05	27.6	0.178	1.18	4.4	13	3.6	11.6
73759	<0.05	22.3	0.17	1	4.8	17	3.1	9.2
73760	<0.05	15.8	0.175	1.5	7.2	77	4.6	21.2
73761	<0.05	15.6	0.34	1.09	4.2	80	3.1	28.6
73762	0.05	24.7	0.271	1.22	3.3	51	1.7	10.8
73763	<0.05	16.2	0.166	1.13	3.5	17	3.2	6.6
73764	<0.05	12.3	0.206	1.05	2.6	27	1.8	8.5
73765	<0.05	23.7	0.227	1.15	3.8	26	2.9	17.6
73766	<0.05	20.3	0.245	1.11	2.6	37	4.2	21.4
73767	<0.05	15.8	0.204	1.35	2.7	21	3	18.8
73768	<0.05	19.2	0.255	0.74	3.4	57	1.9	17.9
73769	0.12	15.9	0.277	1.1	4.4	101	3.4	12.7

SAMPLE	Te	Th	Ti	Tl	U	V	W	Y
73770	0.09	9.8	0.35	1.18	2.5	112	3.8	8.4
73771	<0.05	8.9	0.276	1.28	3.3	100	4	12.8
73772	0.09	1.9	0.276	0.67	1.1	215	2.6	8
73773	<0.05	18.4	0.328	0.98	5.1	66	3	31.4
73774	0.05	28.3	0.345	0.75	11.5	66	2.8	41.1
73775	<0.05	19.4	0.158	1.12	4.5	20	2.7	14.3
73776	0.07	4.2	0.222	0.77	5.2	169	3.9	7.4
73777	<0.05	8.5	0.206	1.55	4.2	75	4	7.2
73778	<0.05	6.8	0.326	1.09	5.7	162	3.6	7.9
73779	0.27	8.6	0.416	0.96	8.2	46	3.9	22.4
73780	0.06	19.1	0.26	1.14	4.1	30	3	12.3
73781	<0.05	15.3	0.248	0.87	2.8	34	1.5	11.7
73782	<0.05	16.8	0.317	1.14	4.8	37	2.1	31.5
73783	0.06	18.2	0.292	1.01	4.9	35	2.2	24.4
73784	0.07	13.9	0.362	1.22	4.2	51	3.8	32.9
73785	0.09	17.5	0.298	1.02	3	45	2.1	16.7
73786	<0.05	11.6	0.42	0.68	2.1	117	1.1	38.2
73787	<0.05	10.2	0.523	0.74	3	218	2.4	53.7
73788	<0.05	12.3	0.674	0.97	3.6	165	3.2	43.1
73789	0.06	12.7	0.477	0.62	3.6	131	2.3	35.7
73790	0.05	9.9	0.396	0.87	2.7	150	2	17.3
73791	<0.05	12.6	0.295	0.78	2.3	73	1.3	24.1
73792	<0.05	13.8	0.243	1.88	5.4	30	2.2	35.6
73793	<0.05	12.1	0.103	1.52	2.1	25	2.3	28.1
73794	<0.05	16.8	0.191	1.68	3.4	31	3	54.3
73795	<0.05	12.3	0.522	0.89	4.1	227	3.8	54
73796	<0.05	21	0.155	1	4.3	32	2.5	35.2
73797	0.05	17.6	0.209	1.36	3.1	54	2.2	28
73798	<0.05	24.3	0.149	1.29	2.8	25	3.2	26.1
73799	<0.05	32.5	0.122	1.31	4.6	9	2.6	67.2
73800	<0.05	25.6	0.122	1.22	5.1	35	2.4	23.9
73801	<0.05	13.4	0.33	0.7	3	105	1.9	47.8
73851	0.06	9.3	0.486	0.82	2.8	174	3.2	41.3
73852	0.05	12.5	0.488	0.81	1.8	116	3.8	33.3
73853	0.08	13.1	0.323	0.64	2.1	123	2	31.1
73854	<0.05	7.9	0.293	0.58	1.5	115	2	14
73855	0.06	13.2	0.36	0.84	3.2	92	4.5	35.8
73856	<0.05	9.2	0.29	0.66	2.1	67	2.5	16
73857	<0.05	8.2	0.135	0.96	2.6	18	3.9	21.3
73858	<0.05	11.8	0.146	1	2.3	23	5.2	28
73859	<0.05	13.4	0.126	1.04	4.2	22	2.5	57
73860	<0.05	8.5	0.169	0.65	2.3	35	2.5	19.3
73861	<0.05	12.6	0.211	0.92	4.6	37	3.6	47.3
73862	<0.05	8.9	0.353	0.64	3.5	79	2.2	26.7
73863	<0.05	10.5	0.336	0.89	2.8	70	2.9	32

SAMPLE	Te	Th	Ti	Tl	U	V	W	Y
73864	<0.05	9.8	0.317	0.67	3	53	2.9	33.7
73865	<0.05	10.1	0.337	0.53	2.6	80	2.6	19.4
73866	0.06	10	0.312	0.64	3	55	3.9	29.8
74951	<0.05	22.1	0.426	1.37	9.7	58	2.6	38.6

SAMPLE	Zn	Zr	Au, ppb
74901	78	123	6
74903	80	94.4	6
74905	119	132.5	11
74907	152	143	5
74909	71	105.5	41
74911	82	111	4
74913	105	143.5	9
74915	91	109.5	3
74917	83	107.5	15
74919	104	116	3
74921	99	184	4
74923	107	114.5	15
74925	111	66.7	5
74927	93	119	2
74929	67	90.9	535
74931	104	76.4	16
74949	102	92	2
74947	89	140.5	8
74945	98	142	2
74943	104	190	2
74941	46	89.1	2
74939	57	88.9	3
74937	62	66	4
74935	133	70	14
74933	67	88.9	5
74851	92	77.1	3
74852	84	41.3	3
74853	103	48.3	5
74854	86	60.4	3
74855	102	61.7	12
74856	77	77.6	13
74857	85	108.5	27
74858	134	164.5	3
74859	100	55.2	6
74860	192	125	14
74861	186	122	7
74862	108	103	3
74863	124	131	9
74864	75	60.5	4
74865	79	103.5	4
74866	83	106.5	2
74867	128	61.2	10
74868	238	165.5	7
74869	162	105	1
74870	147	109.5	1

SAMPLE	Zn	Zr	Au, ppb
74871	112	86.8	4
74872	285	125	4
74873	248	165	10
74874	118	93.1	4
74875	108	95.4	3
74876	113	63.9	25
74877	81	116	2
74878	75	78.2	2
74879	75	85.8	3
74880	155	86.2	7
74881	93	106.5	14
74882	148	128	14
74883	127	95.1	9
74884	88	106.5	138
74885	96	116.5	8
74886	118	135.5	5
74887	124	145	6
74888	97	173	24
74889	95	153	5
74890	125	85.8	1
74891	127	140.5	4
74892	127	144.5	26
74893	94	159	19
74894	85	102.5	3
74895	89	122	39
74896	80	106.5	2
73751	100	35.4	251
73752	221	109	23
73753	102	107.5	2
73754	167	101.5	10
73755	66	111	1
73756	73	91.9	10
73757	96	72.5	11
73758	269	101.5	5
73759	161	97.8	2
73760	184	131.5	102
73761	126	57	28
73762	107	91.2	3
73763	158	106	38
73764	106	84.6	2
73765	174	73.8	9
73766	79	29.1	52
73767	115	68.7	2
73768	77	101	6
73769	121	144	11

SAMPLE	Zn	Zr	Au, ppb
73770	65	119.5	8
73771	231	121	10
73772	889	24.6	9
73773	251	83.4	7
73774	596	144.5	23
73775	86	133.5	4
73776	766	81.1	24
73777	182	154.5	7
73778	272	101.5	23
73779	609	67.2	17
73780	276	106	26
73781	221	69.4	5
73782	102	72.6	6
73783	228	103.5	5
73784	163	105	2
73785	158	68.9	4
73786	124	60.6	8
73787	134	49	7
73788	165	27.1	24
73789	111	108.5	8
73790	144	27.3	11
73791	85	44.1	3
73792	81	25.8	3
73793	73	26.3	8
73794	86	32.5	2
73795	118	18.7	143
73796	107	74.2	6
73797	86	38.1	8
73798	154	70.2	6
73799	143	47.7	8
73800	105	142	13
73801	98	66.8	6
73851	108	29.6	6
73852	105	12.5	10
73853	140	59.5	6
73854	92	22.7	5
73855	98	78.1	19
73856	81	71.4	9
73857	109	55.8	8
73858	114	32.9	5
73859	92	41.1	10
73860	67	49.5	6
73861	128	66.9	19
73862	145	135	11
73863	153	52	48

SAMPLE	Zn	Zr	Au, ppb
73864	97	52.6	11
73865	73	56.2	9
73866	85	48.2	13
74951	468	98.6	4

Aqua Regia Digestion

Although some base metals may dissolve quantitatively, in the majority of geological matrices, data reported from an aqua regia leach should be considered as representing only the leachable portion of the particular analyte. The recovery percentages for many analytes from more resistive minerals can be very low, but the acid leachable portion can also be an excellent exploration tool.

In order to report the widest possible concentration range, this method uses both the ICP-MS and the ICP-AES techniques. Minimum sample size is 1g.

51 elements by aqua regia, ICP-MS and ICP-AES

ANALYTES & RANGES (ppm)								CODE	PRICE PER SAMPLE (\$)
Ag	0.01-100	Cs	0.05-500	Mo	0.05-10,000	Sr	0.2-10,000	ME-MS41	23.20
Al	0.01-25%	Cu	0.2-10,000	Na	0.01%-10%	Ta	0.01-500		
As	0.1-10,000	Fe	0.01%-50%	Nb	0.05-500	Te	0.01-500		
Au	0.2-25	Ga	0.05-10,000	Ni	0.2-10,000	Th	0.2-10,000		
B	10-10,000	Ge	0.05-500	P	10-10,000	Ti	0.005%-10%		
Ba	10-10,000	Hf	0.02-500	Pb	0.2-10,000	Tl	0.02-10,000		
Be	0.05-1,000	Hg	0.01-10,000	Rb	0.1-10,000	U	0.05-10,000		
Bi	0.01-10,000	In	0.005-500	Re	0.001-50	V	1-10,000		
Ca	0.01%-25%	K	0.01%-10%	S	0.01%-10%	W	0.05-10,000		
Cd	0.01-1,000	La	0.2-10,000	Sb	0.05-10,000	Y	0.05-500		
Ce	0.02-500	Li	0.1-10,000	Sc	0.1-10,000	Zn	2-10,000		
Co	0.1-10,000	Mg	0.01%-25%	Se	0.2-1,000	Zr	0.5-500		
Cr	1-10,000	Mn	5-50,000	Sn	0.2-500				

Four Acid "Near-Total" Digestion

In most cases, this procedure quantitatively dissolves nearly all elements for the majority of geological materials. However, it may sometimes be necessary to use even stronger dissolution techniques such as fusions in order to get fully quantitative results.

In order to report the widest possible concentration range, this method uses both the ICP-MS and ICP-AES techniques. Minimum sample size is 1g.

48 elements by four-acid, ICP-MS and ICP-AES

ANALYTES & RANGES (ppm)								CODE	PRICE PER SAMPLE (\$)
Ag	0.01-100	Cs	0.05-500	Na	0.01%-10%	Sr	0.2-10,000	ME-MS61	27.90
Al	0.01%-50%	Fe	0.01%-50%	Nb	0.1-500	Ta	0.05-100		
As	0.2-10,000	Ga	0.05-10,000	Ni	0.2-10,000	Te	0.05-500		
Ba	10-10,000	Ge	0.05-500	P	10-10,000	Th	0.2-10,000		
Be	0.05-1,000	Hf	0.1-500	Pb	0.5-10,000	Ti	0.005%-10%		
Bi	0.01-10,000	In	0.005-500	Rb	0.1-10,000	Tl	0.02-10,000		
Ca	0.01%-50%	K	0.01%-10%	Re	0.002-50	U	0.1-10,000	ME-MS61m	37.75
Cd	0.02-1,000	La	0.5-10,000	S	0.01%-10%	V	1-10,000		
Ce	0.01-500	Li	0.2-10,000	Sb	0.05-10,000	W	0.1-10,000		
Co	0.1-10,000	Mg	0.01%-50%	Sc	0.1-10,000	Y	0.1-500		
Cr	1-10,000	Mn	5-100,000	Se	1-1,000	Zn	2-10,000		
Cu	0.2-10,000	Mo	0.05-10,000	Sn	0.2-500	Zr	0.5-500		

Note: To include Hg by a separate procedure in the suite of elements above, please request ME-MS61m instead of ME-MS61.

A full suite of rare earth elements can be added to this package, keeping in mind that this data will represent the acid leachable portion of the rare earth elements only. To include rare earth elements in the suite of elements above, please request ME-MS61r instead of ME-MS61.

ANALYTES & RANGES (ppm)								CODE	PRICE PER SAMPLE (\$)
Dy	0.05-1,000	Gd	0.05-1,000	Nd	0.1-10,000	Tb	0.01-1,000	ME-MS61r	3.65 (add on price)
Er	0.03-1,000	Ho	0.01-1,000	Pr	0.03-1,000	Tm	0.01-1,000		
Eu	0.03-1,000	Lu	0.01-1,000	Sm	0.03-1,000	Yb	0.03-1,000		

Lithogeochemical Studies of Gold-Bearing Felsic Schist Units in the Boulder Lode Area, Lone Star Ridge

Report prepared for Lonestar Gold, Inc.

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Introduction

Variably pyritic felsic schists in the vicinity of the Boulder Lode occurrence on Lone Star Ridge in the north-central part of the Klondike District (Fig. 1) have been shown by MacKenzie et al. (2008a) to contain disseminated gold at significant levels (up to several grams/tonne). These authors noted that some gold-bearing felsic schist intervals in 2005 drill holes by Klondike Star did not show elevated As contents, unlike intervals that contain gold-bearing discordant quartz veins, which are typically at least moderately anomalous for As. They concluded, based on more fine-scale re-sampling of the gold-bearing schist intervals, that two generations of gold are present in the felsic schist units. One is only locally present and is specifically associated with discordant quartz veins and elevated As contents, and a second style is more pervasive in portions of the felsic schist unit and is not obviously associated with either veins or elevated levels of As. Two possible explanations of the disseminated gold occurrences were offered by MacKenzie et al. (2008); either the gold (and possibly the spatially associated “spotted” alteration in host schists) was part of a diffuse epigenetic alteration associated with the discordant quartz veins, or the gold was syngenetic within the schists, possibly related to minor volcanogenic massive sulphide occurrences that occur locally in the schist package (Mortensen et al., 2006).

The felsic schist unit is very heterogeneous both in terms of composition and texture in surface exposures and in drill core. As yet it has not proven possible to identify reliable marker units within the felsic schist package that can be used to trace stratigraphy or to constrain the geometry of folds and/or faults in the area. An additional complication in trying to sort out the geology of the Boulder Lode area is that logging of drill core in the past has been done by many different people, and it is therefore difficult to correlate subtly different lithologies even between adjacent drill holes with any confidence. Similarly surface mapping of trenches and natural outcrops has been done by several different people, each of whom would describe the same rock unit in the same outcrop quite differently, again making correlations across the map area nearly impossible. A surface mapping exercise of the Boulder Lode area by Seymour Iles and Ethan Allen in 2007 while employed by Klondike Star demonstrated that correlations between subtly different lithologies within the felsic schist package may be possible in some cases if all of the surface exposures are mapped by the same person or persons.

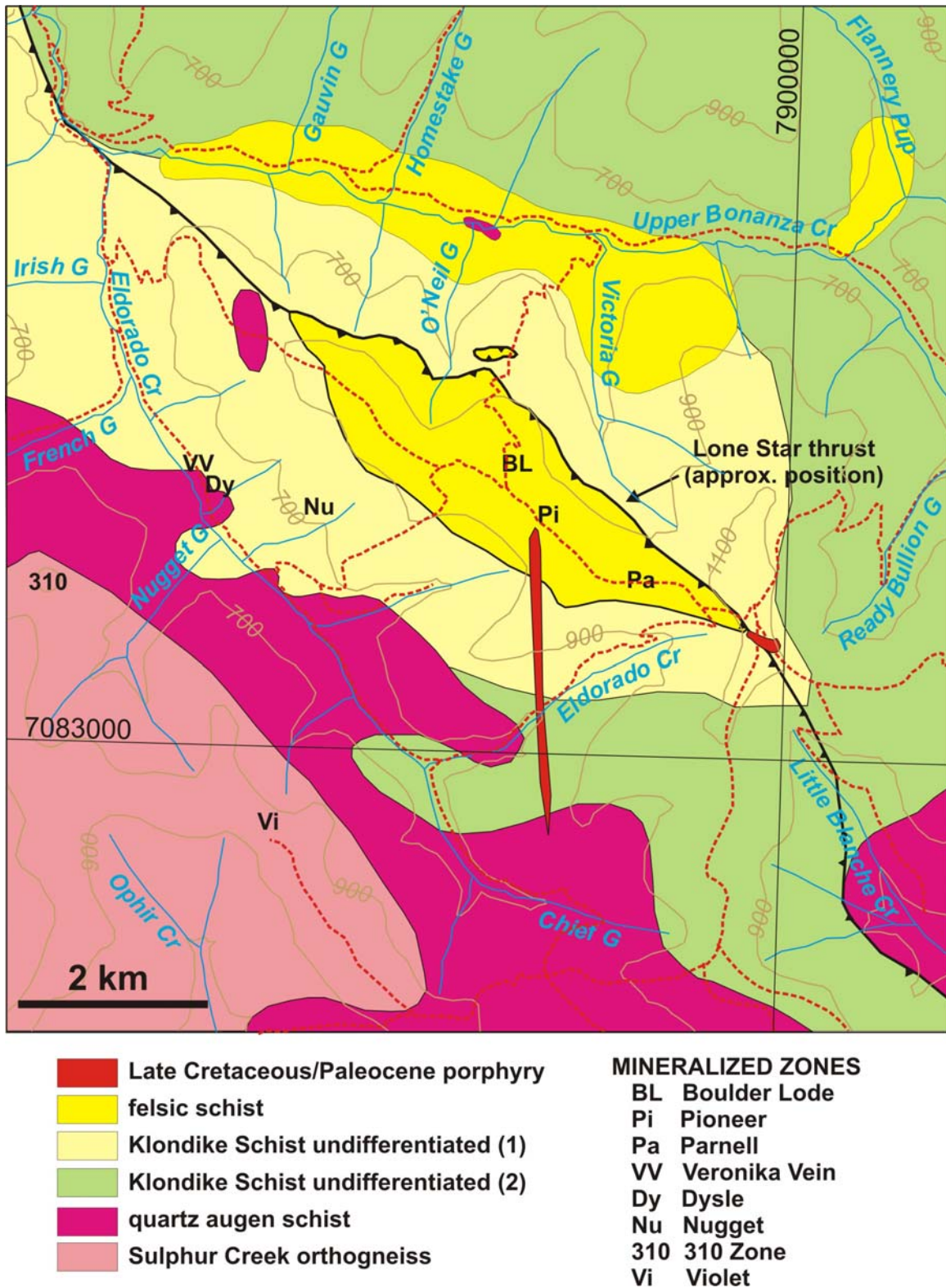


Figure 1. Simplified geological map of the Lone Star property, showing the main distribution of lithological assemblages and locations of main gold-bearing zones.

Lithogeochemistry offers an alternative, unbiased way to map and interpret the various subunits of the felsic schist package in the Boulder Lode area that can potentially form the basis for correlations between various drill holes, and between drill holes and surface exposures. Multi-element geochemical analyses (4-acid digestion) are available from all 27 of the 2005 Klondike Star drill holes in the vicinity of the Boulder Lode on Lone Star Ridge. A detailed examination of these data has revealed several lithogeochemical signatures that correlate closely with gold content and to some extent with lithological units distinguished during initial logging of the core. Research quality geochemical analyses done by Tim Liverton in 2006 on a suite of representative rock units selected from the 2005 drill holes have been used to verify the multi-element geochemical analyses. Preliminary results of this study suggest that it is possible to construct a chemostratigraphic framework for the felsic schist unit in the vicinity of the Boulder Lode. Distinctive rock units can be broken out that have very consistent geochemical signatures, and elevated gold values related to the presence of disseminated gold appear to be consistently associated with specific rock units.

Geochemical Datasets

Two separate geochemical datasets from 2005 Klondike Star diamond drill holes in the Boulder Lode area are available for study. The first consists of multi-element analyses of 0.5 to 1m intervals for all of the 27 holes drilled in this area in 2005 (“multi-element data”). These analyses were done using a standard 4-acid digestion method, and fire assays were subsequently performed for intervals that yielded highly anomalous gold contents. The second dataset (“ICP-MS data”) comprises 19 research quality whole rock geochemical analyses of representative unmineralized rock samples selected from the 2005 drill core; these analyses were obtained by Tim Liverton in 2006, and were done using a lithium metaborate flux prior to dissolution, followed by an ICP-MS multi-element analysis. The two datasets are not directly comparable, because the 4-acid digestion method cannot guarantee full dissolution of all mineral phases present; hence, contents of some elements such as Ti, Al, Zr, U, and Th that may be contained within relatively insoluble minerals such as zircon will likely be under-estimated. The lithium metaborate flux method, on the other hand, ensures complete dissolution of even the most refractory minerals. However, research quality whole rock analyses are much more costly and time-consuming to obtain than the conventional multi-element analyses, which are commonly done routinely for drill core assay. Ideally it would be possible to extract meaningful geochemical discriminants from the multi-element data that could be applied directly to interpretation of drill assay data. To that end only the Au values from the multi-element analyses from the 2005 drill holes have been used in the following study (the fire assays from these samples are generally reasonably close to the values obtained by the multi-element analyses).

The following sections include, 1) a brief petrochemical interpretation based only on the ICP-MS analyses (modified slightly from Mortensen, 2006); 2) a comparison of the two datasets for samples using only data from drill hole 05-LS-01; and 3) an assessment of the utility of

geochemical discriminants based on the multi-element data for identifying and tracing subunits and gold-bearing horizons within the felsic schist unit in the Boulder Lode area.

Petrochemical Interpretation of Representative Schist Samples from the Boulder Lode Area

A total of 19 complete analyses were carried out on selected samples from 2005 drill core, using ICP-MS analysis following lithium metaborate fusion of samples. These were obtained by Tim Liverton on samples selected to be reasonably representative of the main visually identifiable lithologies observed in the drill core. Sample locations and descriptions are listed in Table 1.

Table 1. Representative samples for whole rock geochemistry from 2005 drill holes (T. Liverton, unpublished data).

DDH	INTERVAL (m)	LITHOLOGY	Plotting Symbol
LS 01	19.20 - 20.12	micaceous quartzite with carbonate-chlorite 'spots'	Open blue square
LS 01	30.78 - 31.70	micaceous quartzite	Blue square
LS 01	46.33 - 47.24	quartz-muscovite schist with carbonate	Open blue square
LS 01	73.76 - 74.68	quartz-muscovite schist with green mica and carbonate	Open blue square
LS 01	103.33 - 104.24	pyritic quartz-muscovite schist	Pink diamond
LS 01	124.36 - 125.27	meta-volcanic	Pink diamond
LS 02	69 - 70	homogeneous spotted quartz-muscovite schist	Open blue square
LS 04	61 - 62	homogeneous spotted quartz-muscovite schist	Open blue square
LS 07	54 - 55	epidote rich quartz-muscovite schist	Blue square
LS 07	107 - 108	meta-volcanic	Pink diamond
LS 07	109 - 110	green exhalite (metachert?)	Pink diamond
LS 07	114 - 115	green and pink exhalite (metachert?)	Pink diamond
LS 10	112 - 113	heavily carbonate altered schist	Open blue square
LS 13	152 - 153	pink exhalite (metachert?)	Pink diamond
LS 16	9m - 10m	quartz-muscovite schist with stilpnomelane	Blue square
LS 16	106.8 - 107.9	chloritized quartz-muscovite schist	Red circle
LS 16	122.0 - 123.15	carbonate-altered quartz-muscovite schist with stilpnomelane and chlorite	Red circle
LS 16	150.0 - 150.29	quartz-muscovite schist	Blue square
LS 26	120 - 121	pink exhalite (metachert?)	Pink diamond

The following observations resulted from a preliminary petrochemical interpretation of the data set by Mortensen (2006):

1. Major element data plotted on a LeBas type plot of total alkalis vs. SiO₂ suggests that the most of the sampled schist units in the Lone Star area fall in the dacite and rhyolite fields, with two samples (LS16-106.8 and -122.0) that were identified as chloritized quartz-muscovite schist or carbonate altered quartz-muscovite schist with chlorite falling in the basalt and basaltic andesite field (Fig. 2A). All but one of the analyses falls in the subalkaline field according to the Irvine and Baragar discriminant. Major elements are commonly mobile in what are presumed to be mainly altered and metamorphosed submarine volcanic and volcanoclastic rock units such as this, however, and immobile

trace elements are generally considered to more reliably record the primary compositions of the rock units.

2. On ratio-ratio plots of immobile trace elements the data define remarkably consistent groupings in the rhyolite, dacite/rhyodacite and andesite/basaltic andesite fields (Fig. 2B). This suggests that the units identified as being possible exhalites (“very fine grained and siliceous; possibly metachert?”) based on hand sample identification are actually rhyolitic in composition and in fact do not contain excessive amounts of SiO_2 . They are compositionally distinct from (more evolved than) the more “normal” felsic schist in the Lone Star area, which falls in the rhyodacite and dacite fields. Similarly the two chlorite-bearing samples appear to have originally been mafic to intermediate in composition. The Zr/TiO_2 ratio provides a good discriminant between these three main rock types.
3. Plots of various immobile elements and element-element ratios against major elements suggest that limited mobility of the major elements has occurred.

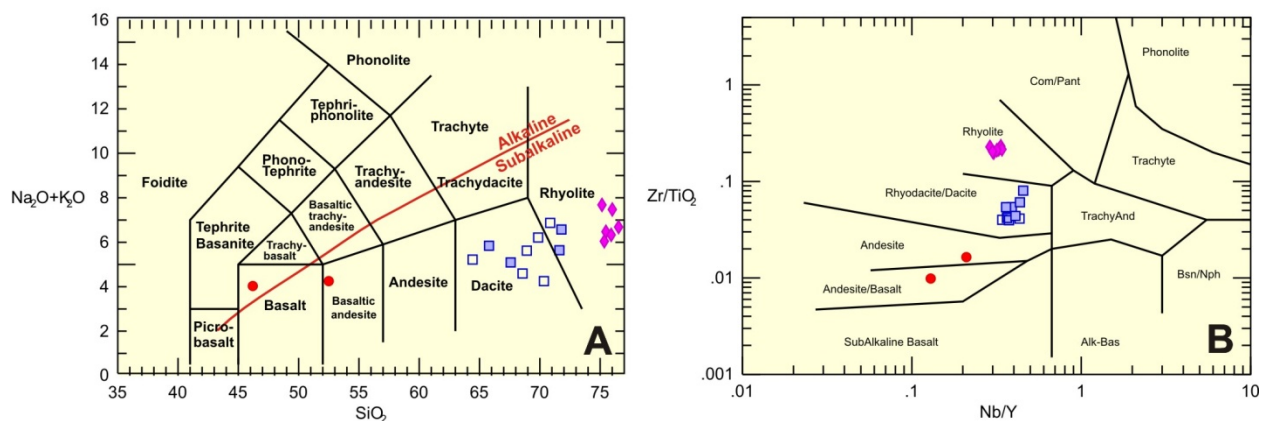


Figure 2. Major and trace element discriminant plots for schists from Lone Star Ridge.

The protoliths of the felsic schist are interpreted to have been submarine felsic volcanic and volcanoclastic rocks, and most of the locally abundant pyrite within some of the rocks is interpreted to be syngenetic in origin. This is consistent with the presence of narrow conformable layers of fine grained galena and sphalerite within pyritic felsic schist in the vicinity of the Boulder Lode that give Pb isotopic compositions consistent with being Kuroko-type VMS occurrences (Mortensen et al., 2006). Submarine volcanic rocks deposited in the vicinity of submarine vents are commonly enriched in elements such as Mn. This and other possible hydrothermal alteration overprints on the schist samples were also evaluated using the geochemical dataset. Preliminary conclusions are as follows:

1. It was suspected that several of the fine grained rhyolitic samples might include a hydrothermal Mn component because of their pink (or green and pink banded) appearance (possible presence of piemontite, a pinkish Mn-rich epidote?). Measured Mn contents, however, are all relatively low (Fig. 3A) and the more pinkish samples did not display obviously elevated Mn contents. I therefore conclude that at least on the basis of this sample suite there is no evidence for any exhalative Mn enrichments in the felsic schists. The cause of the pink and green coloration is uncertain, but it may simply reflect the oxidation state of contained Fe.

2. Similarly it was speculated that the bright green color of some of the muscovite in some of the schists might reflect reflect V-rich compositions (“roscoelite”); however, there is no indication of any V-enrichment in the samples (although no samples with abundant bright green muscovite were analyzed) (Fig. 3B).
3. Carbonate-chlorite “spotting” is quite prominent in some sections of the drill core, as are some sections that contain relatively abundant disseminated carbonate. These carbonate-enriched zones appear to be spatially associated with gold-bearing drill intersections. The carbonate-bearing samples do yield elevated [total C as CO₂] values (Fig. 3C); however, this parameter is negatively correlated with any of the elements that might be a proxy for gold mineralization contained in discordant veins within the schist (e.g., Ag, As). It is therefore uncertain whether the carbonate is necessarily directly related to the gold.
4. A plot of [total S] vs. As (Fig. 3D) appears to show two distinct trends. One shows no correlation between the two elements and may reflect the presence of pyrite that is not related to gold (possibly metamorphic pyrite). The other trend shows a strong positive correlation between the two elements and may reflect the presence of traces of arsenopyrite, and hence represent a weak hydrothermal effect associated with gold mineralization. It is interesting to note that the three samples that show this apparent positive correlation are the three dacitic/rhyodacitic samples that do not contain notable amounts of carbonate, which supports the contention that the carbonate may not be related to gold. The very small number of samples, however, makes this conclusion highly speculative.

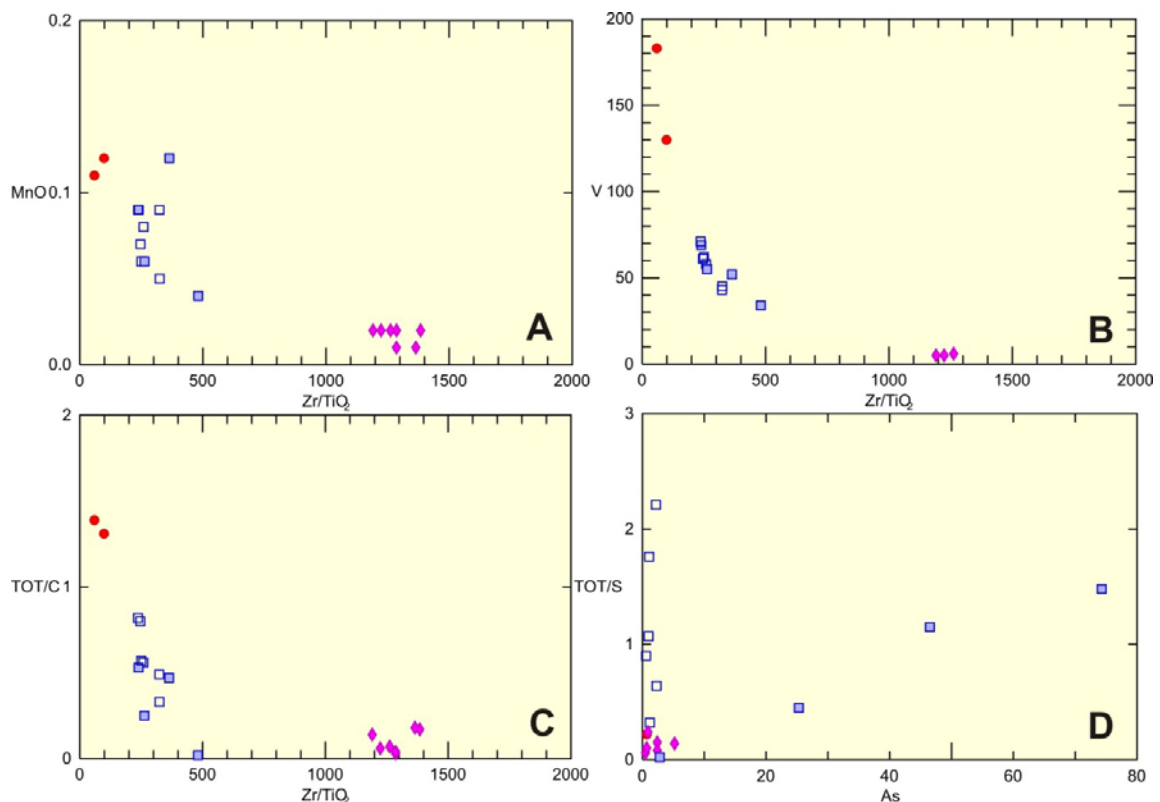


Figure 3. Major and trace element plots for evaluating the presence of possible exhalative components and/or hydrothermal alteration effects in schists from Lone Star Ridge.

The main conclusions from the reconnaissance investigation of the ICP-MS data from the suite of lithogeochemical samples are:

1. There are at least three distinct rock units present within the felsic schist package in the Boulder Lode area on Lone Star Ridge. Despite the highly varied appearance of these samples in drill core the three subunits display tightly clustered compositions on immobile element ratio plots and indicate that the compositions of the schists in this area are restricted to rhyolites, rhyodacites/dacites, and basaltic andesites/andesites.
2. With the exception of pyrite, there is no evidence for a significant exhalative component in any of the schist units that were analyzed, even in units that were interpreted in the field and in drill core to be quartzites (metacherts; now known to be rhyolites).
3. The “spotted” texture that is observed in some felsic schist samples do contain somewhat elevated CO₂ contents (total C as CO₂); however, it is unclear whether these anomalous CO₂ contents are associated with gold.

Comparison of Multi-Element and ICP-MS Analyses of 2005 Drill Core

Multi-element analyses using 4-acid digestion of 1m intervals in drill hole 05-LS-01 are compared in Figure 4 to analyses of 6 samples from the same hole analyzed using lithium metaborate fusion and ICP-MS analysis. The multi-element data clearly shows significant variability down the hole, and there is a distinct break in rock type at a depth of approximately 97m. Four of the ICP-MS analyses are from the upper “quartz muscovite schist” unit (metadacite/rhyodacite) and two are from the lower “quartzite” unit (metarhyolite). This will be discussed in detail in the following section. The purpose of this figure is to demonstrate that the contents of various metals and many other elements obtained from the multi-element analyses is essentially identical to that obtained by the ICP-MS method, suggesting that the multi-element data can be used with some confidence to reflect the composition of the host rocks and not just the amount of contained metal. The discrepancies in measured P content between the two methods probably reflect how P content is reported (as P₂O₅ in the ICP-MS analyses and as elemental P in the multi-element analyses). P should be mainly contained in apatite, which would be completely dissolved by the 4-acid digestion. The pattern of relatively high P in the “quartz-muscovite schist unit” and low P in the “quartzite unit” is consistent. U contents are substantially higher in the ICP-MS data set; this is probably because most U would have been contained in zircons, which would not be completely dissolved by the 4-acid method. Interestingly, measured Th contents agree quite closely between the two methods, although it would have been expected that much (perhaps most) of the Th would also be contained mainly in zircons. Elements such as Ti and Al are expected to be contained in a variety of silicate and refractory accessory phases, and show poor agreement between the two methods. The conclusion of this assessment is that geochemical data obtained from 4-acid digestion and standard multi-element analysis can be used, although with some caution, for characterizing lithogeochemical differences between lithologies. Note that this may not be the case for other

rock types in the Lone Star Ridge area, in which the various elements that have been used here might be partially hosted by more refractory mineral phases.

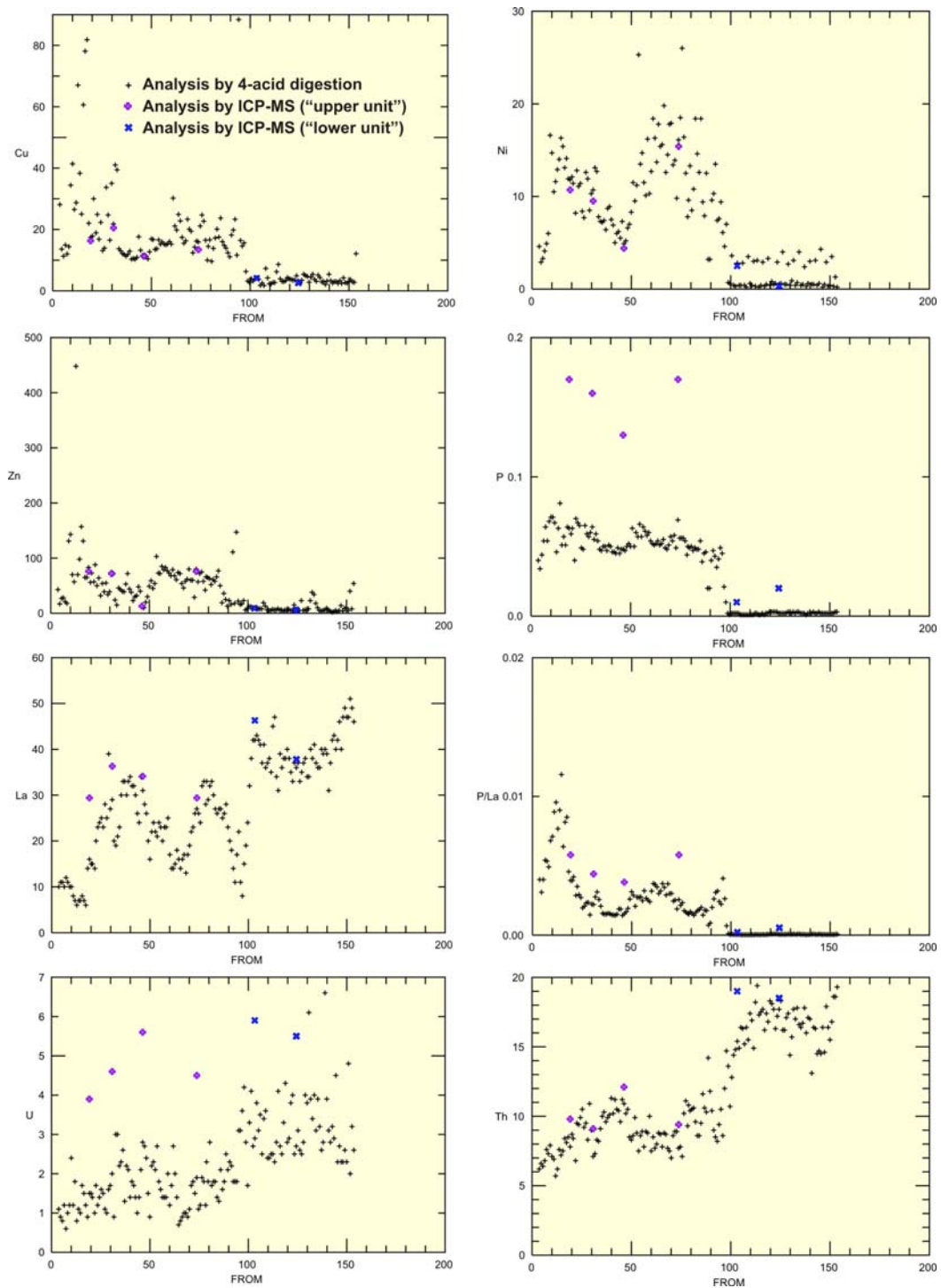


Figure 4. Comparison of geochemistry of schist samples from drill hole 05-LS-01 using multi-element analyses following 4-acid digestion and ICP-MS analyses following lithium metaborate fusion and dissolution.

Assessment of the Utility of Multi-Element Analyses for Discrimination between Sub-Units in the Felsic Schist in the Boulder Lode Area

Data from two drill holes (LS-02 and LS-09) were investigated initially, in part because these were the holes that had been examined previously by MacKenzie et al. (2008). Both of these holes were collared in a variably pyritic quartz-muscovite schist unit (dacite/rhyodacite composition according to the petrochemical investigation discussed above) that locally displayed “spotted” alteration (2-3 mm diameter “spots” of chlorite, carbonate and rarely pyrite). In addition, this rock unit consistently contained elevated gold contents. The lower portion of both drill holes was logged as micaceous quartzite (rhyolitic in composition) with minor pyrite, which for the most part yielded only background levels of gold. Various element-element and element-ratio plots for the two drill holes, as well as a series of plots of element concentration and element ratio variation with depth are shown in Figure 5. Symbols for individual analyses are coded according to the Au content from the multi-element analysis (not the fire assay), in the following ranges: <10 ppb, 10-50 ppb, 50-100 ppb, 100-500 ppb, 500-1000 ppb, 1000-5000 ppb, and >5000 ppb.

Several observations are immediately apparent from the plots:

1. On plots of S vs. Fe (Figs. 5A and B) many analyses fall on a line with a slope of ~ 1.16 , which is consistent with the Fe being carried entirely in pyrite. Most samples with elevated Au contents contain relatively abundant S (and hence are relatively pyritic); however, they also contain a substantial amount of Fe that is not carried as pyrite.
2. Anomalous Au contents are almost entirely restricted to the upper quartz-muscovite schist unit (metadacite/rhyodacite) and only occasional, very weakly anomalous Au values have been obtained from the lower quartzite (metarhyolite) unit (Figs. 5C and D).
3. As contents are generally very low (as previously pointed out by MacKenzie et al., 2008; Figs. 5C and D; note the different scale of the two figures). Gold-bearing discordant veins throughout the Klondike are typically associated with elevated As-in-soil anomalies although arsenopyrite has only been rarely observed in the veins. It is assumed for this study that elevated Au values that are associated with strongly anomalous As values probably reflect the presence of discordant veins. In plots of log Au vs. As (Figs. 5E and F) for the two drill holes, it is clear that although there are some spikes to much higher As values, the vast majority of the samples, including most of the samples with moderate to high Au contents, contain <5 ppm As (again note the difference in scale on the As axis). This suggests that most of the anomalous Au samples are not related to discordant veins, at least not within the volume of rock that was sampled (it is conceivable that As may be contained only within veins, and not within alteration of adjacent wall rocks). Based on a simple statistical evaluation of the ~ 4590 As analyses obtained from whole rock samples in the 2005 drilling in the Lone Star Ridge area the threshold for anomalous As is ~ 50 ppm.
4. Mn is elevated but variable in the upper quartz-muscovite schist unit and is consistently very low in the lower quartzite unit (Figs. 5G and H).

5. The upper quartz-muscovite schist unit displays consistently elevated P contents and depleted La and Th contents with respect to the lower quartzite unit (Figs. 5I-L) (the reason for anomalously high P contents in several samples with high Au contents in hole LS-09 is unknown). These are elements that are most likely to reflect original lithology rather than an epigenetic hydrothermal overprint, and hence may be useful for identifying and characterizing different primary lithologies. It is interesting that there is some “texture” to the geochemical signal from the upper unit – in particular there is a narrow interval in hole LS-02 between 77 and 83m that shows depleted P, slightly elevated La and strongly elevated Th contents. This interval was logged as essentially the same lithology as that above and below; however, the geochemical signature suggests that it represents a different lithology, much more akin to the lower “quartzite” unit that is present from 97.5m to the end of the hole.
6. The geochemical differences between lithologies can be enhanced by examining element ratios such as P/La and P/Th (Figs. 50 to R). The P/Th plot in particular shows very dramatic differences between the upper quartz-muscovite schist and lower quartzite units, although some caution must be used in applying this discriminant because some of the Th in these rock units might be contained in insoluble zircon grains (see discussion above). The P/Th plot for hole LS-02 shows depletions between both 47 and 59m and especially between 77 and 83m (Fig. 5Q), implying a somewhat different lithology in those intervals. The plots of Ni contents, and to a lesser extent Cr contents, for this hole (Figs. 6S and U) are consistent with this, and suggests that slightly more evolved (felsic) lithology is contained within the upper unit in these intervals.

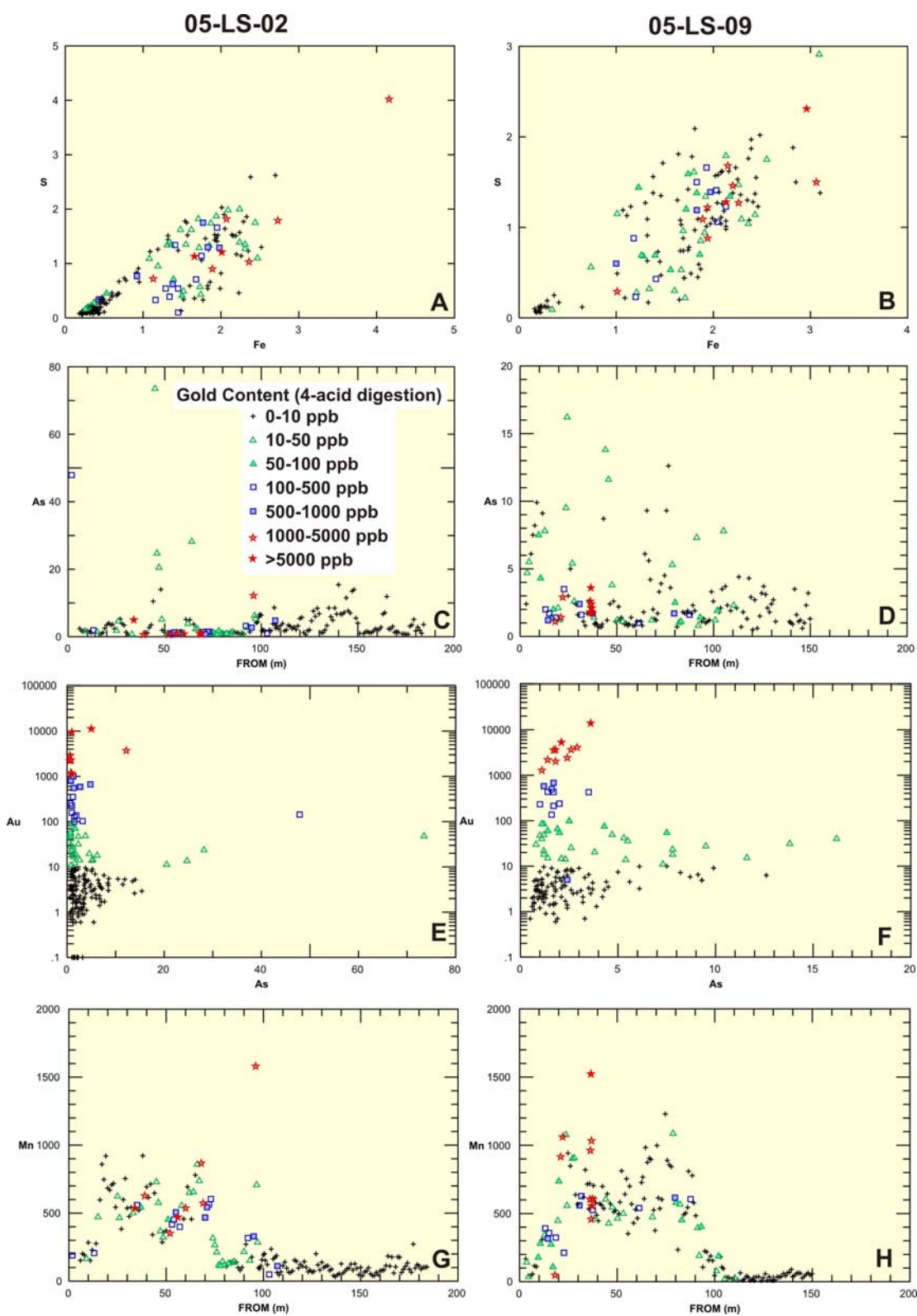


Figure 5. Plots of multi-element analytical data from drill holes 05-LS-02 and 05-LS-09. Analyses are color-coded according to measured gold content.

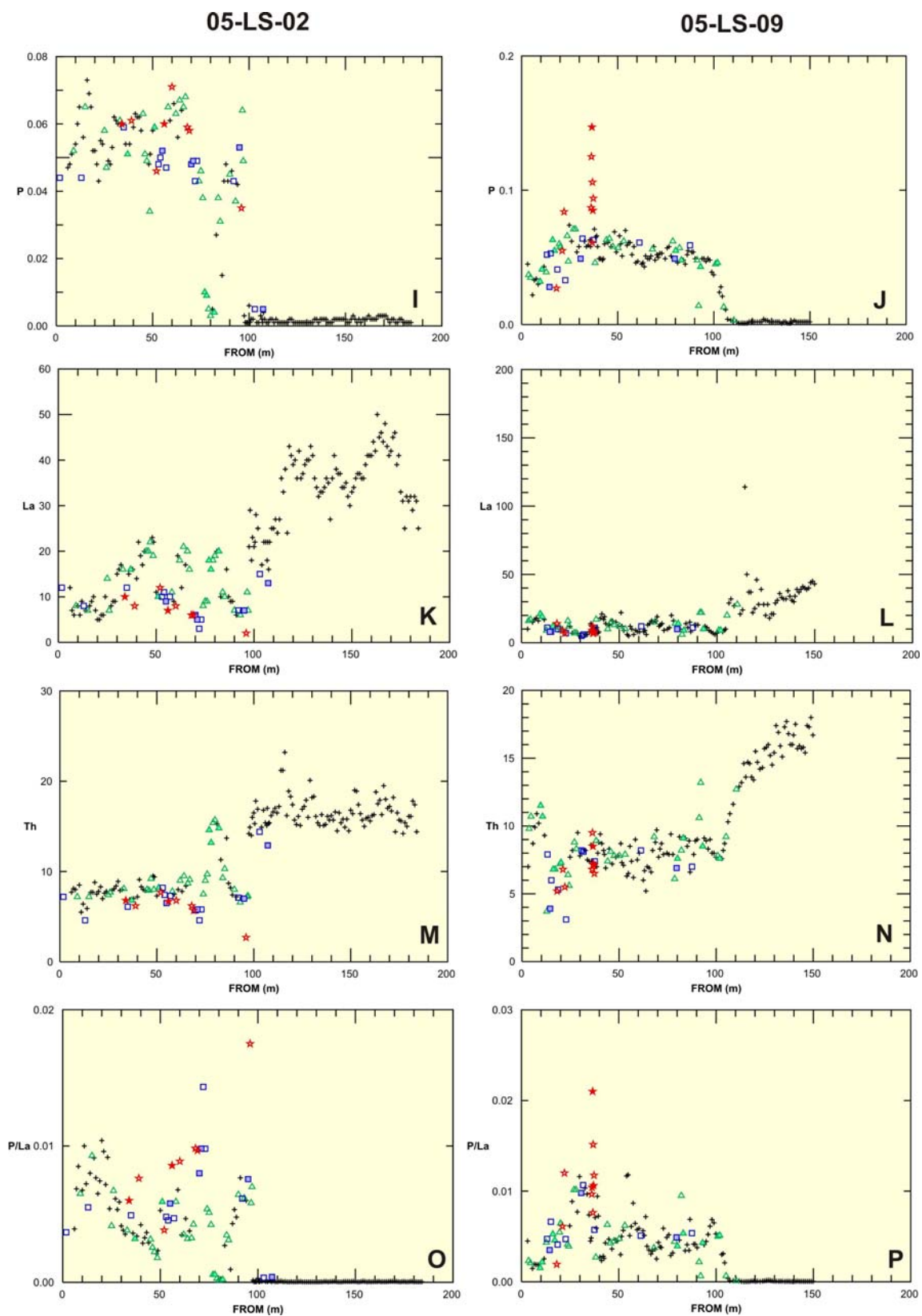


Figure 5 (continued). Plots of multi-element analytical data from drill holes 05-LS-02 and 05-LS-09.

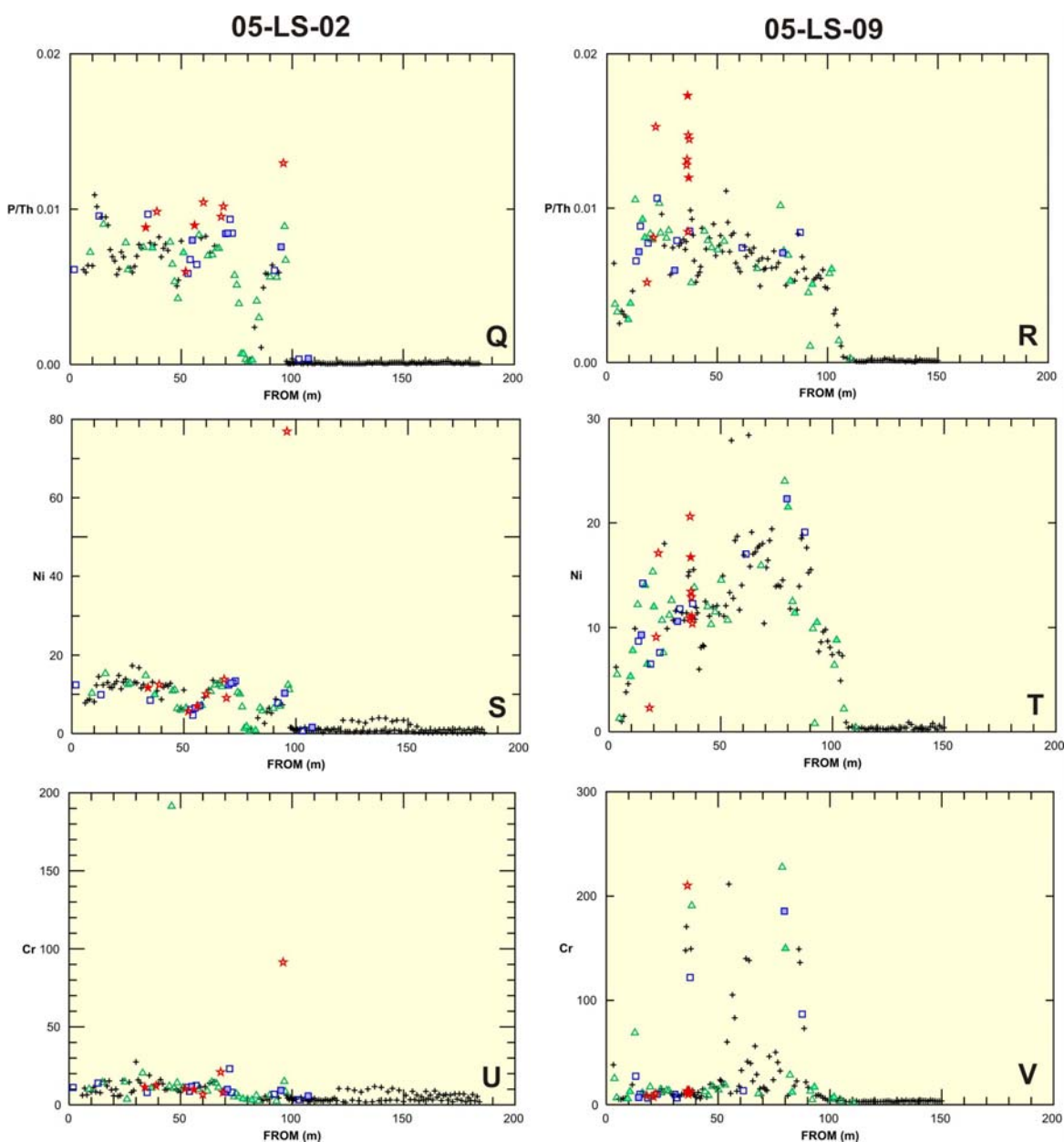


Figure 5 (continued). Plots of multi-element analytical data from drill holes 05-LS-02 and 05-LS-09.

From the observations outlined above, it appears that two main lithologies can be readily identified in drillholes LS-02 and L-09 on the basis of the multi-element geochemical data. The upper “quartz-muscovite schist” (metamorphosed dacite/rhyodacite) and lower “quartzite” (metamorphosed rhyolite) units can be clearly distinguished in terms of a number of the geochemical criteria shown in Figure 5; however, the breaks in terms of Ni content and P/La and P/Th ratios are particularly distinctive and consistent. Subdivisions of the upper unit are somewhat more subtle; however, for example the interval from 75-85m in hole LS-02 can be

readily distinguished as being geochemically (and presumably lithologically) on the basis of P and Ni content, as well as P/La and P/Th ratios.

Drill holes 05-LS-02 and 05-LS-09 are 200m apart, suggesting that the geochemical discriminants shown here can be applied at least on a local scale. It may therefore be possible to construct a chemostratigraphic framework for the felsic schist unit in the Boulder Lode area. Because disseminated gold appears to be associated with very specific rock units, such a framework could provide very valuable constraints for identifying marker units or horizons, and tracking particularly favourable rock units or horizons in drill core throughout the property. Because most of the elements and element ratios that are being used as discriminants would be expected to be relatively immobile in surface weathering or hydrothermal alteration environments, the geochemical signatures should also be applicable for surface samples and potentially for data from reverse circulation holes.

Application of the “Chemostratigraphic” Approach to Understanding Local and Property-Scale Geology on Lone Star Ridge

In order to fully evaluate the applicability of this approach, analytical data for all 27 of the 2005 drill holes by Klondike Star in the vicinity of the Boulder Lode have been plotted, using measured Ni contents and calculated P/La and P/Th ratios as lithological discriminants (Fig. 6). Consistent geochemical breaks are apparent in most of the plots. The distinction between the upper “quartz muscovite schist” and the lower “quartzite” to the west of the Boulder Lode, along a strike length of at least 500m in holes 05-LS-01 to -19 and 05-LS-26 and -27, is very distinct. It is evident that for the first time we have a means of recognizing and tracing stratigraphy within the felsic schist package.

Using this break as a marker horizon to constrain the subsurface geology in the Boulder Lode area suggests a considerably different fold geometry than was previously indicated by Iles and Allen in their 2007 interpretative cross sections, which were based on their surface mapping and proposed correlations between surface exposures and drill core. A first-order implication of the new “chemostratigraphic” interpretation is that the “quartz-muscovite schist” unit, which hosts virtually all of the gold in the Boulder Lode area, appears to form a shallow NW-trending synform, rather than a steeply NE-dipping slab. This reinterpreted geometry, together with the observation that much (perhaps most) of the gold in the Boulder Lode area is lithologically controlled within the quartz-muscovite schist unit, may help to better explain the extent and relatively flat-lying orientation of gold-enriched zones in the Boulder Lode area that were identified by Tim Liverton in his preliminary resource calculation for the area in 2007.

A preliminary assessment of the lithogeochemical data from five 2005 drill holes in the vicinity of the Veronika Vein and Dysle Zone near the bed of Eldorado Creek leads to two conclusions. First, rock units similar in composition to the “quartz-muscovite schist” and “quartzite” in the Boulder Lode area do not appear to be present in these areas. Second, only minor amounts of gold were encountered in the drilling in these areas, and it appears to be closely correlated with elevated levels of As, suggesting the gold in this part of the property may

be largely, or entirely, controlled by discordant veins rather than occurring as disseminations in the host schists. More work is needed on the geochemical data set from this area.

The author will continue to work with Tim Liverton to apply this “chemostratigraphic” approach to reinterpreting the structure of the Boulder Lode area and testing the extension of the gold-bearing lithological units to the southeast into the Pioneer and Parnell areas. This work will include both reinterpretation of all of the 2005 diamond drill holes in the Boulder Lode area as well as those in the Veronika Vein and Dysle Zone areas on Eldorado Creek. We will also attempt to utilize any multi-element geochemical data available from trench sampling and reverse circulation drill holes on the property to extend the chemostratigraphic assessment of the Lone Star property.

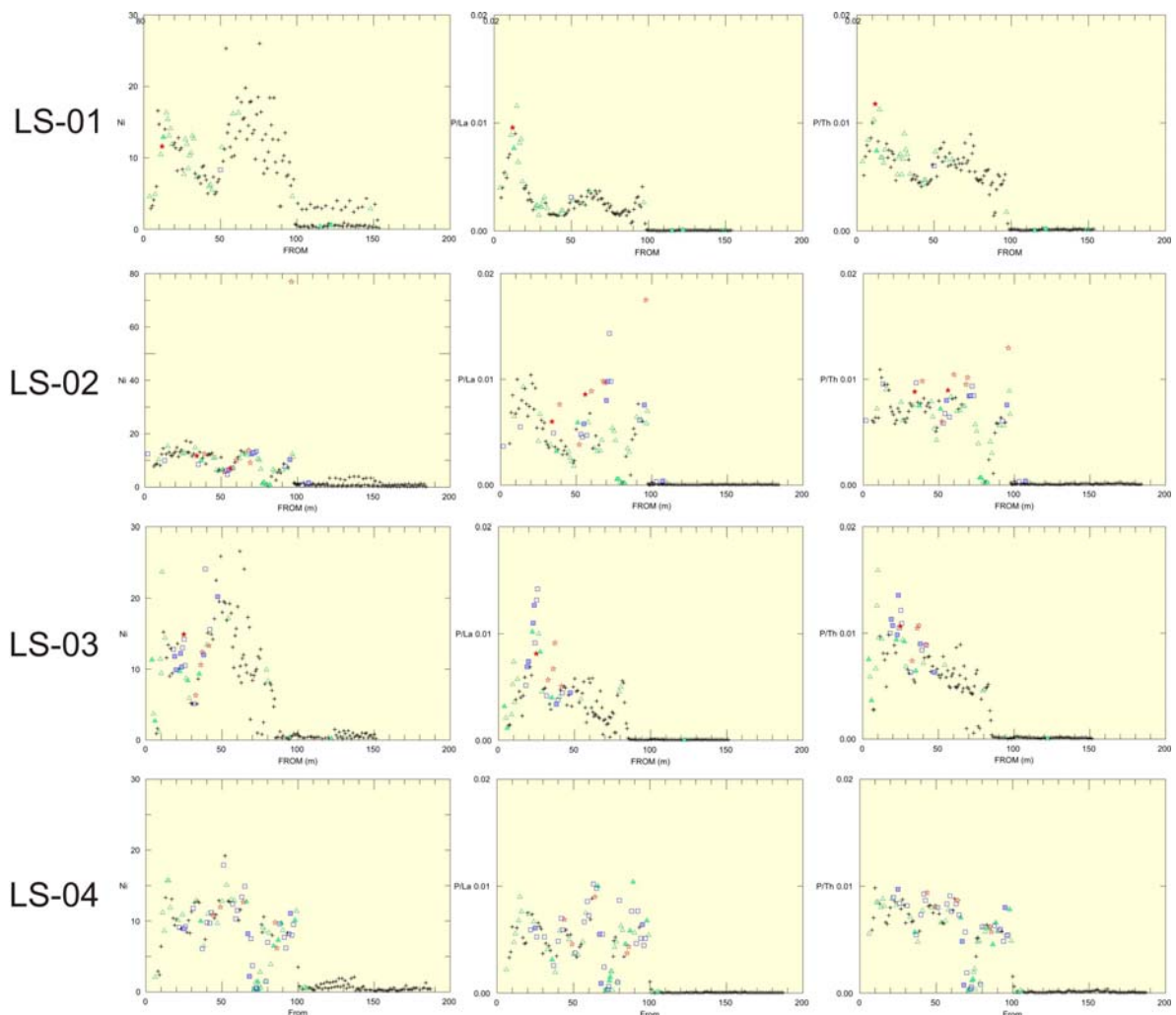


Figure 6. Chemostratigraphic data for drill holes 05-LS-01 to -04.

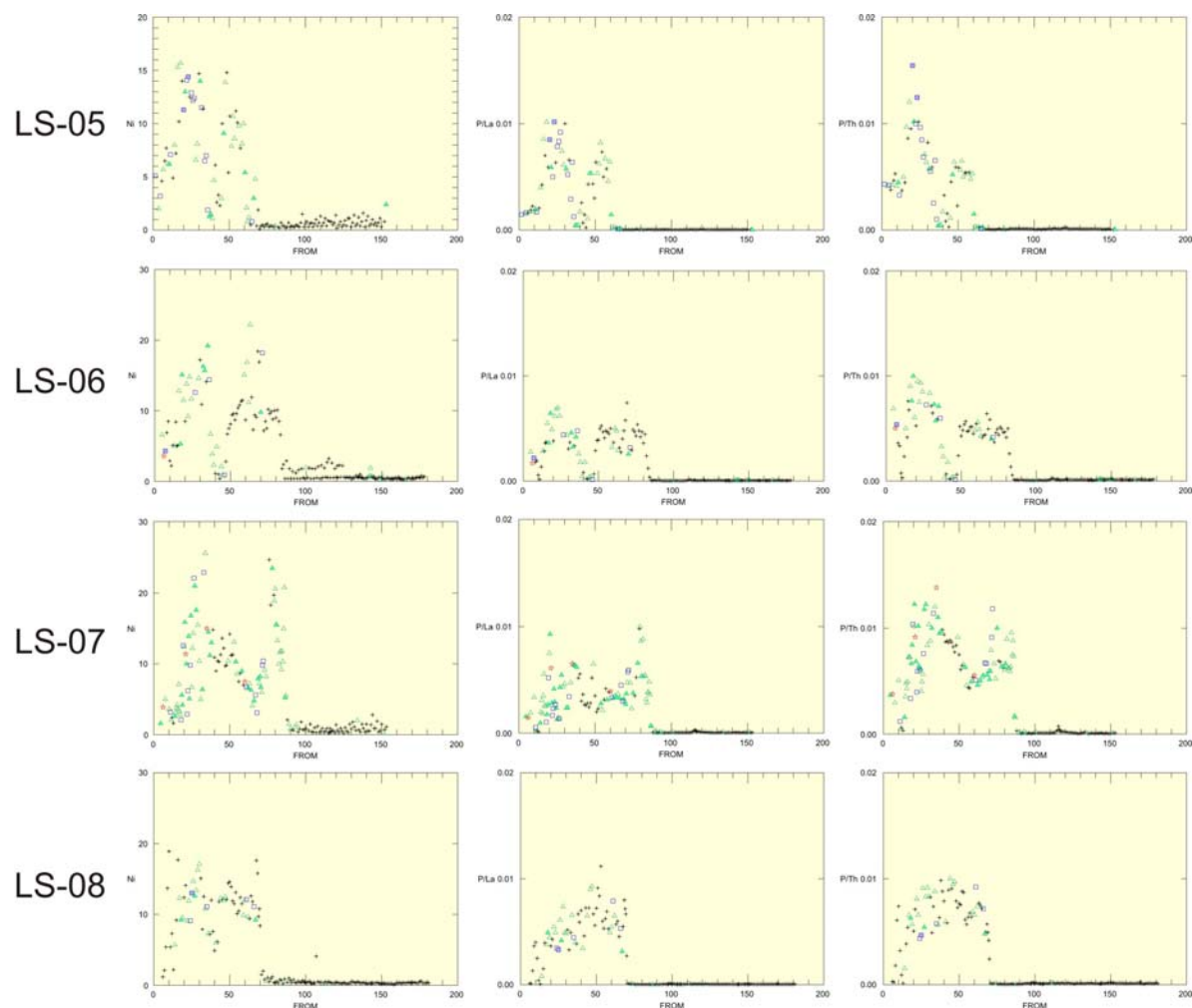


Figure 6 (continued). Chemostratigraphic data for drill holes 05-LS-05 to -08.

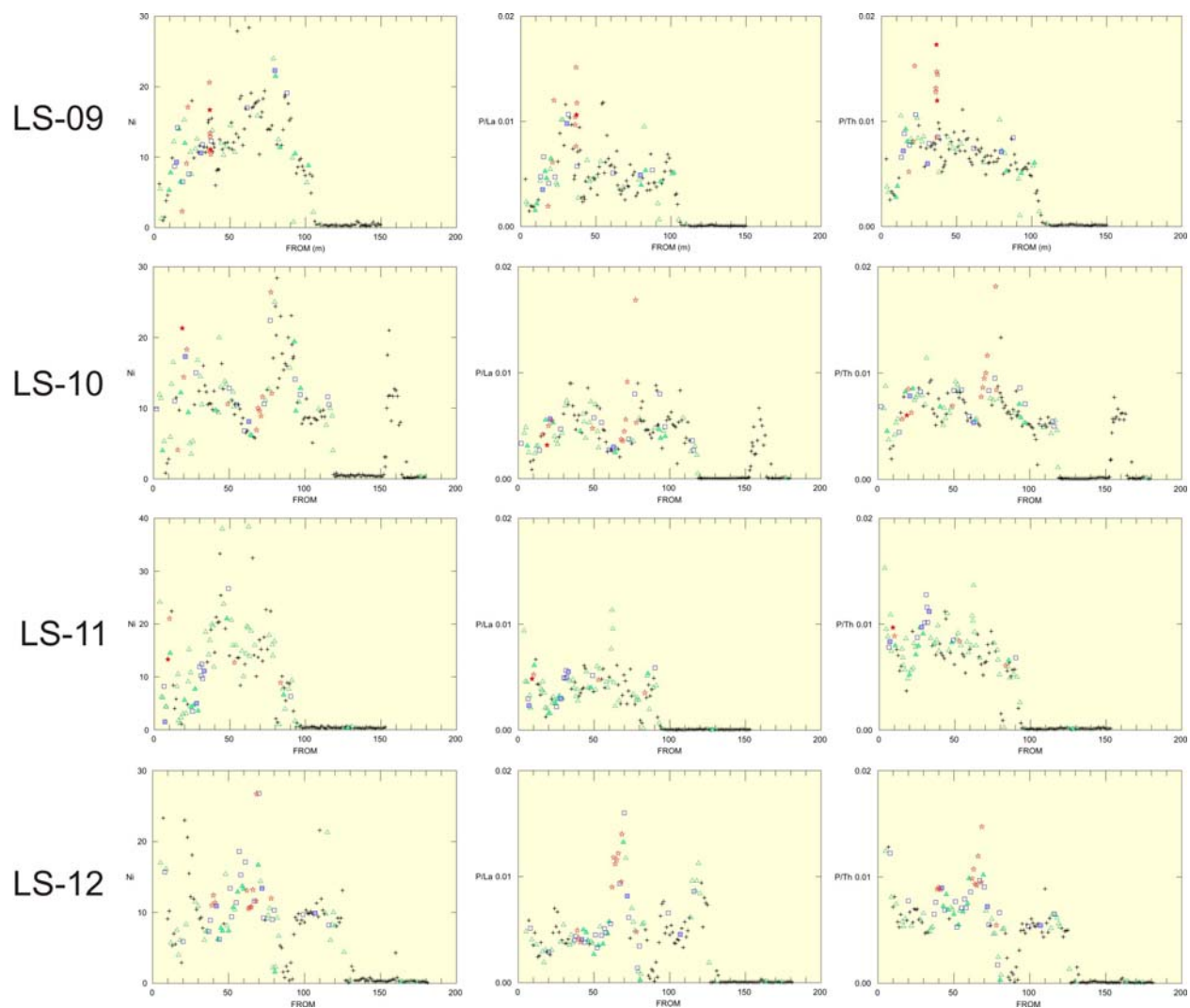


Figure 6 (continued). Chemostratigraphic data for drill holes 05-LS-09 to -12.

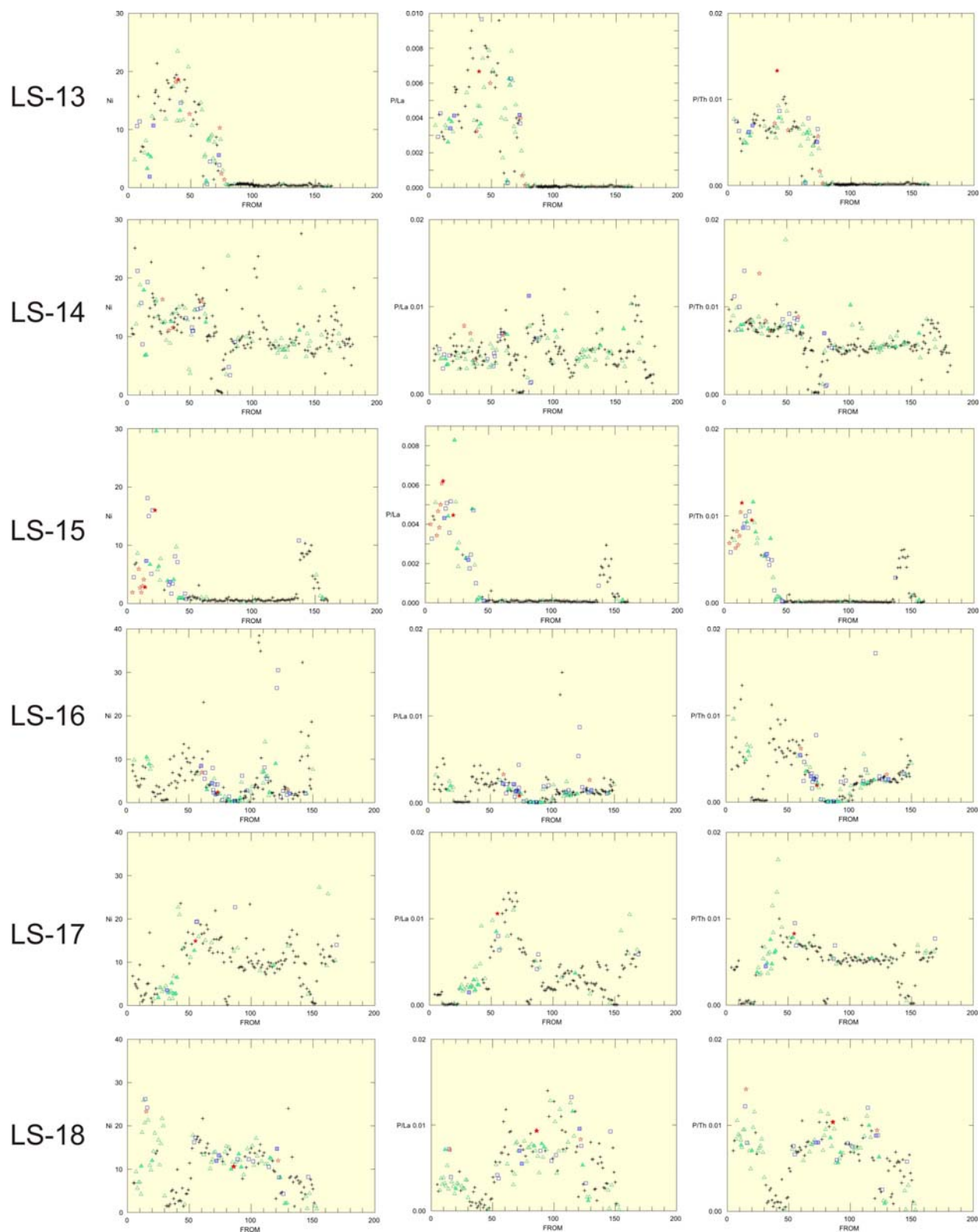


Figure 6 (continued). Chemostratigraphic data for drill holes 05-LS-13 to -18.

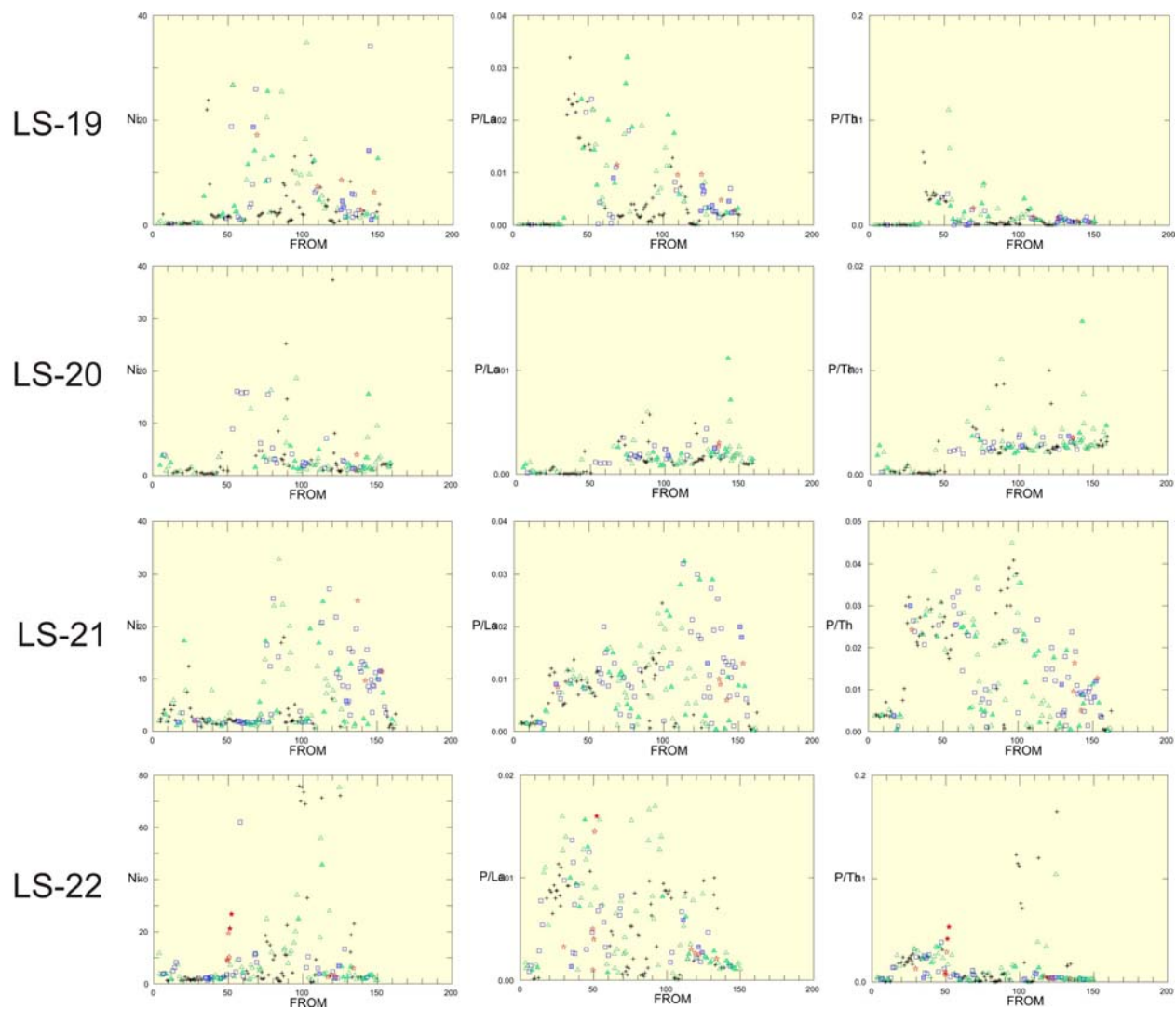


Figure 6 (continued). Chemostratigraphic data for drill holes 05-LS-19 to -22.

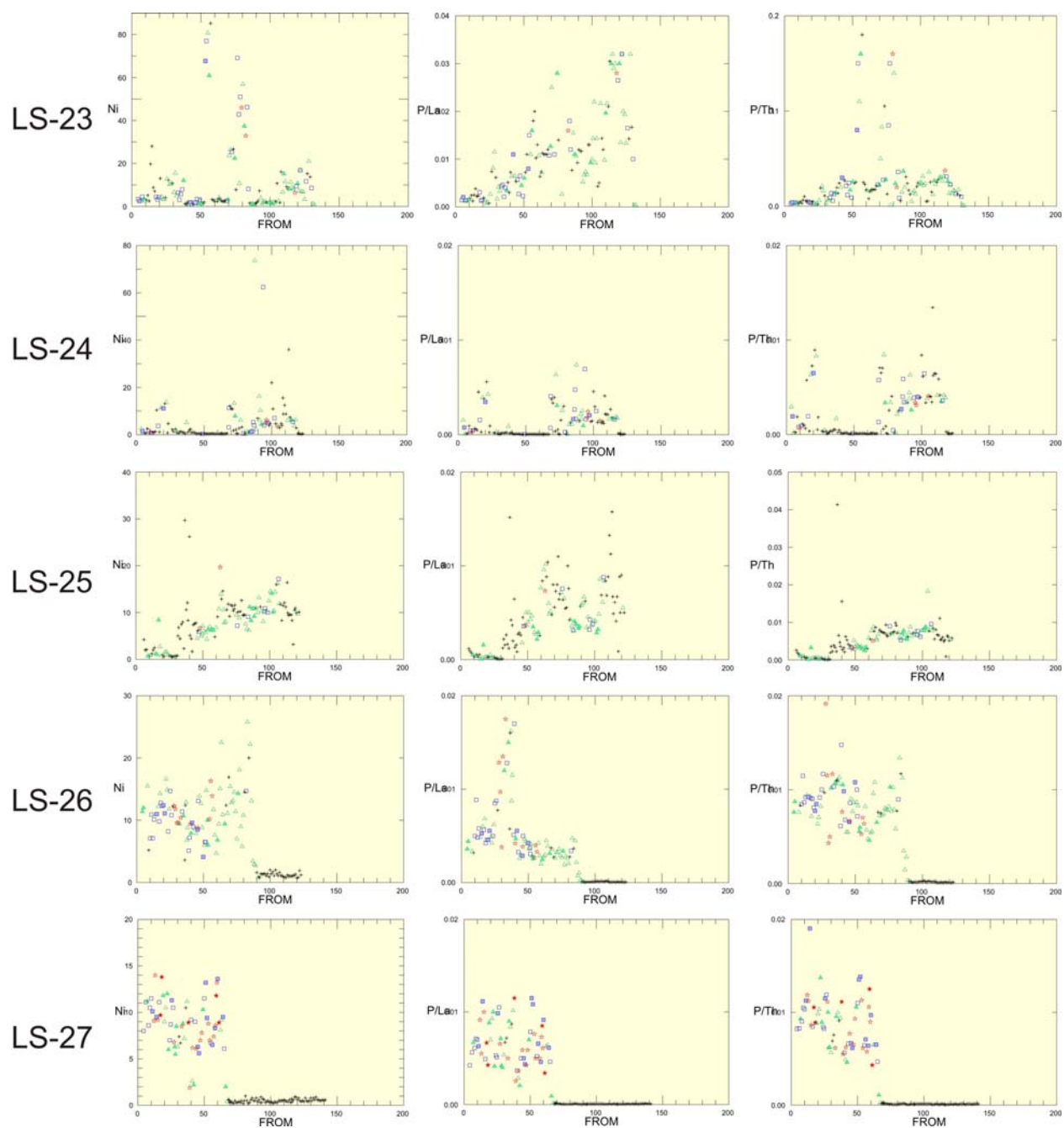


Figure 6 (continued). Chemostratigraphic data for drill holes 05-LS-23 to -27.

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Geology and Gold Mineralization in the Lone Star Ridge and Eldorado Creek Areas and Recommendations for Exploration

Report prepared for Lonestar Gold, Inc.

J.K. Mortensen, Ph.D., P.Eng.

November 28, 2011

Introduction

The author spent four days (October 13-16) in Dawson reviewing our current understanding of the geology of the Klondike District with Tim Liverton and specifically discussing the geology and lode gold mineralization in the vicinity of the Lone Star Ridge and Eldorado Creek. Some time was also spent in the field examining specific geological relationships in outcrop and drill core. The following discussion summarizes the main conclusions that arose from that visit, but also draws heavily on work in the Klondike by the author over the past 29 years, as well as subsequent discussions with a number of other research colleagues with Klondike expertise. Ideas and suggestions presented here are solely the responsibility of the author.

Geology of the Lone Star Ridge area

Geological mapping of the entire Klondike District, including the Lone Star Ridge area, was carried out by the author in 2006-07. A detailed structural analysis of the Lone Star area was carried out at the same time by Doug MacKenzie, together with Dave Craw and Tim Liverton, as part of this study, and results of this analysis were summarized by MacKenzie et al. (2008a). A detailed lithological legend was constructed; this subdivided the Klondike Schist assemblage, which underlies most of the Klondike, into nine regionally mappable units. Four of these (Sulphur Creek orthogneiss, augen schist, felsic schist and Klondike Schist undifferentiated) occur as mappable units in the Lone Star Ridge and Eldorado Creek areas, and several other schist units (mafic schist, carbonaceous schist, and micaceous quartzite) occur as bodies that are too small to show at a 1:50,000 scale. In addition, serpentinized ultramafic rocks occur along a major structure on the north slope of Lone Star Ridge.

The geology of Lone Star Ridge includes a northwest-trending zone (probably a synformal infold) of variably pyritic felsic schist (muscovite and quartz-muscovite schist) along the crest of the ridge in the immediate vicinity of the Lone Star mine, and extending to the southeast past the Pioneer and Parnell occurrences, and for approximately 1 km to the northwest of the Boulder Lode. Most of the rest of the ridge is underlain by Klondike Schist undifferentiated, which is a package of mainly quartz-muscovite-chlorite $\pm$ carbonate schist with small areas of quartz augen schist, carbonaceous schist and felsic schist. On the southwest side of the ridge the Klondike Schist undifferentiated unit passes downwards into quartz ($\pm$ feldspar) augen schist that underlies much of the Eldorado Creek valley. This unit passes southwestwards, apparently gradationally,

into pinkish, blocky weathering foliated biotite quartz monzonite of the Sulphur Creek orthogneiss.

The dominant structure in the vicinity of the Lone Star Ridge is the Lone Star thrust, which is a gently southwest-dipping thrust structure that is exposed in trenches and roadcuts along the Victoria Creek access road to the Lone Star mine at the head of No. 7 Pup, and in trenches and drillholes at the head of O'Neil Gulch. The trace of the Lone Star thrust to the northwest and southeast has been inferred on the basis of structural relationships and limited outcrop data. The thrust is inferred to pass under the entire Lone Star Ridge. Sheared serpentinite is present along the thrust in several localities between the heads of No. 7 Pup and O'Neil Gulch, and in the inferred position of the thrust near the mouth of Boulder Gulch. Strongly sheared carbonaceous schist also occurs in several areas along the thrust.

Two early deformation events (D1 and D2) affected the Klondike in latest Permian time and produced pervasive ductile recrystallization foliations and completely transposed compositional layering within all rock units on the property. D3 deformation was mainly ductile, and is characterized by a well developed crenulation fabric and northeast-verging mesoscopic (and possibly macroscopic) folds with rounded hinges and shallowly southwest-dipping axial planes. D3 fabrics are very well developed in the immediate vicinity of the Lone Star Thrust and are also commonly observed in highly micaceous rock units elsewhere on the property. More massive rock units such as the quartz augen schist and Sulphur Creek orthogneiss typically do not display D3 fabrics. D4 deformation is characterized by ductile-to-brittle style structures, including kink folds, high angle reverse faults, locally developed spaced fracture cleavages, and conjugate fracture sets. D4 folds mainly trend north to northwest with upright axial surfaces. In some parts of the property a separate set of structures that are similar in character to the D4 structures as described above and are interpreted by MacKenzie et al. (2008a) to have formed during the D4 event have a more east-west trend. The northerly-trending D4 structures are dominant, however, both in the Lone Star Ridge area and elsewhere in the Klondike. D4 deformation appears to be concentrated into relatively narrow "deformation corridors" 10s to 100s of metres in width. The D5 deformation event in the Klondike comprises steeply dipping to vertical fault zones with much gouge development. These structures are mainly northeast-trending, and are inferred from regional evidence to be Late Cretaceous in age.

Lode mineralization in the Lone Star Ridge area

There are two distinct styles of lode gold mineralization in the Lone Star Ridge area, and there is evidence that any other styles exist at the present level of exposure or within the mass of rock that was eroded to produce the Klondike placer deposits. The two styles of mineralization are:

1. Gold in discordant orogenic quartz veins. This is the main style of lode gold occurrence that has been observed and explored in many parts of the Klondike. Gold occurs in

quartz ($\pm$ carbonate, barite) veins that crosscut the dominant foliation and compositional layering in the host schists. The veins themselves are typical fissure veins that mainly represent single stage infillings of extensional structures. Veins occur both individually (e.g., Pioneer occurrence) and as clusters or swarms comprising veins at two or more orientations (e.g., Boulder Lode, Nugget Zone, Dysle Zone). Individual veins or vein swarms do not appear to have substantial lateral extent, although this may in part reflect poor exposure. The longest single vein zone that has been defined thus far is at the Nugget Zone, in which the vein system can be traced for 50-60m along strike. Individual discordant veins elsewhere in the Klondike have been mapped for up to 250m in strike length. Gold in the orogenic veins is closely associated with pyrite, which tends to be concentrated along the margins of the veins. Free gold has only rarely been observed within the interior of the veins; for this reason there is typically no correlation between vein width and amount of contained gold. Gold content is commonly roughly correlated with As content in the vein systems, although arsenopyrite is only rarely observed. Base metals are also rare in the veins, and consist of scattered grains of galena, generally within the interior of veins, suggesting that the gold was introduced mainly prior to the base metals. The discordant veins are interpreted to be localized in zones of extension within D4 deformation corridors (MacKenzie et al., 2008a), either in the axial planes of D4 kink folds or in conjugate fracture sets related to the D4 event.

2. Disseminated gold in felsic schist. Assay results from several drill holes in the vicinity of the Boulder Lode at the Lone Star mine indicate that a significant amount of gold (up to several grams/tonne) occurs locally as disseminations within pyritic felsic schists (MacKenzie et al., 2008b). Although there are gold-bearing discordant quartz veins in the general vicinity of some of the disseminated gold-bearing intervals, many of these intervals do not contain discordant veins, suggesting that the disseminated and vein-hosted gold are not related. The disseminated gold appears to be confined to specific lithological units in the felsic schist package, and in some but not all cases there is a spatial association between disseminated gold and a “spotted” texture in the schist. These “spots” are typically 2-3 mm in diameter, and consist of chlorite with minor pyrite and ferroan carbonate. The “spots” appear to overprint and must therefore postdate foliation in the schists. There are two possible explanations for the nature and origin of the disseminated gold; either it is “primary” within the schist, possibly related to minor syngenetic base metal (VMS) occurrences that have been described within the felsic schist package in the Lone Star area and elsewhere in the Klondike by Mortensen et al. (2006), or it is part of a broad alteration envelope that is associated with discordant quartz veins and only affected specific rock units. This issue is addressed in greater detail in a later section of this report.

Lode Gold Exploration in the Lone Star Ridge Area

Several issues that relate directly to the overall gold potential in the Lone Star Ridge area, and how to best evaluate it, are discussed below.

Implications of past placer gold production from Bonanza and Eldorado creeks. Recorded and anecdotal evidence indicates that at least 10 Moz of placer gold, and possibly considerably more than this, has been recovered from Bonanza and Eldorado creeks (including both creek and White Channel Gravel deposits). Shape and compositional studies of placer and lode gold in the northern Klondike by Chapman et al. (2010) conclusively demonstrate that the vast majority of this gold was derived from a ~2.5 by 4 km area on Lone Star Ridge itself, approximately centred on the Lone Star mine. Only a very minor component appears to have been contributed from upper Bonanza Creek (above the mouth of Victoria Gulch or from right limit tributaries such as Gauvin or Homestake gulches), or from left limit tributaries into Eldorado Creek or lower Bonanza Creek. Placer gold production in the northern Klondike can only have come from the discordant vein systems, since gold that occurs as disseminations in felsic schist is far too fine grained to report to the placers. These observations indicate that a major concentration of gold existed, probably within discordant vein systems of the type now seen on Lone Star Ridge, within the volume of rock that has been eroded from above the ridge. There is limited evidence regarding how much erosional downcutting this area has experienced, although it must have been at least several vertical kilometres. Assuming that the style of discordant veining in the rock mass that has been eroded was similar to that at the present level of exposure, there is no reason to think that we are at or near the bottom of the mineralized zone (although this is of course possible).

Extent of discordant vein systems. Examination of the discordant vein systems in outcrop, trenches and drillholes in the Lone Star Ridge area suggests that they typically do not have great lateral or vertical extent (<100 m in maximum length and probably <30 m in width, based on vein systems in the Nugget, Dysle and Veronika zones). Structural studies by MacKenzie et al. (2008a) indicate that the discordant veins are localized within D4 deformation “corridors”, which are also typically of limited areal extent. If this is correct, then the individual vein systems, at least at the present level of erosion, represent local high-grade “sweet spots” within the rock mass, but may not be large enough to form mineable targets by themselves. There is no way to determine whether now-eroded vein systems that were present at higher levels in the mineralized zone were more continuous and/or extensive, or what the grade of these systems might have been.

Geophysical survey results. IP surveys across the crest of Lone Star Ridge suggest that in general areas of high chargeability correspond to the presence of abundant disseminated pyrite (usually within the felsic schist unit) and areas of low resistivity correspond to areas of faulting and brecciation. The resolution of the surveys is poor in some parts of the property; hence the IP

results can only be used as a general guide to the location of the pyritic schist and fault or fracture zones. Nonetheless the surveys provide key information for better understanding the geology of the area of interest.

Disseminated gold in felsic schists. MacKenzie et al. (2008b) were not able to determine whether disseminated gold in the felsic schist units at Lone Star was related to alteration around discordant quartz veins or to pre-existing gold within specific lithologies. Geochemical investigations are currently underway by the author, using both standard multi-element analyses (4-acid digestion) carried out by Klondike Star on core from drill holes in the vicinity of the Boulder Lode, together with research-grade whole rock geochemical analyses of unmineralized rock units from the area previously obtained by Tim Liverton (see Mortensen, 2006). Results of this work thus far suggest that:

- it appears to be possible to use geochemistry to distinguish different lithological sub-units within the felsic schist package, and potentially to construct a chemostratigraphic framework for this package with distinct marker units. These sub-units can be characterized using relatively immobile elements and element ratios, and should therefore be recognizable and mappable both in weathered surface exposures and drill core
- the disseminated gold is associated with rock units with very specific geochemical characteristics
- the “spotted” alteration style does not appear to be associated with discordant veins

Work is on-going on this chemostratigraphic approach; however, based on results thus far I tentatively conclude that the disseminated gold is unrelated to and predates the discordant veining. It is likely related to syngenetic VMS base and precious metal occurrences that have been documented within felsic schists both on Lone Star Ridge and elsewhere in the Klondike. This has critical implications for the evaluating the extent and location of gold-bearing schist horizons outside of the drilled area in the immediate vicinity of the Boulder Lode.

Lone Star thrust. Lode gold occurrences on Lone Star Ridge appear to be entirely confined to the area in the hangingwall of the Lone Star thrust (with the possible exception of intervals of anomalous gold encountered in a drill hole interpreted to have penetrated through the thrust at the head of O’Neil Gulch). The reason for this is unclear, since similar lithologies occur in both the hangingwall and footwall of the thrust. We considered the possibility that the thrust might actually be a D4 rather than D3 structure, and might bound rock masses in which D4 minor structures that controlled gold were better developed in the hangingwall block. However, based on mapping and structural analysis thus far the Lone Star thrust appears to be similar to all other D3 thrusts in the Klondike in every way, so at this point it seems most likely that it is also a D3

structure. There is no obvious way that the thrust could be involved in D4 deformation, or to have affected the distribution of gold mineralization.

D4 deformation as an exploration tool. The nature and significance of the D4 deformation event in the Klondike was only recognized relatively late in the mapping and structural studies of the area in 2007, and has not been completely assessed. The precise relationship between D4 deformation and gold-bearing discordant vein systems are therefore still not well understood. Detailed structural studies by MacKenzie et al. (2008a) showed fairly conclusively that all known gold-bearing quartz veins are contained within D4 deformation zones. However, not all D4 deformation zones contain quartz veins; therefore structural mapping by itself cannot as yet be utilized to target mineralized zones. Clearly there must be other critical factors that have contributed to the localization of gold. In addition, the nature of the east-west trending D4 structures and their relationship to gold-bearing veins has not yet been assessed.

Lode gold potential southwest of Eldorado and Bonanza creeks. As mentioned previously, shape and compositional studies of placer gold in the Bonanza and Eldorado creek drainages suggests that only a very minor proportion of gold recovered from these deposits was derived from the left limit (southwest side) of Bonanza and Eldorado creeks. At least three lode gold occurrences are known from this area (Violet and 310 Zone on the left limit of Eldorado Creek, and the Plinc occurrence on the left limit of Boulder Gulch, which is a left limit tributary into Bonanza Creek); however, from available data none of them appears to be of significant extent. Gold-bearing veins from the left limit occurrences are generally similar in character to those elsewhere in the Lone Star area and have been assumed to be part of the same mineralizing system (e.g., Chapman et al., 2010). However, these occurrences yield considerably lower homogenization temperatures (195-200° for Violet vs. 275-325° for other occurrences; Rushton et al., 1993), and substantially higher Ag and Hg contents. It is therefore possible that the Violet, 310 Zone and Plinc occurrences may not be directly related to the rest of the vein systems, or may represent veins that formed later, or at a shallower depth, than the rest of the veins. We may also only be seeing the very upper portions of the left limit occurrences at the present level of exposure, and it is conceivable that higher grade or more extensive mineralization may be present at depth in these areas.

Evidence for lode gold potential in upper Victoria Gulch. The least explored areas on the Lone Star Ridge area are the lower and middle portions of the left limit slope on Victoria Gulch above the mouth No. 13 Pup (left limit tributary of Victoria Gulch below the Boulder Lode). Gold-bearing discordant veins are present at several locations along the ridge crest immediately above this area. Numerous gold-bearing discordant veins have been documented in the Boulder Lode area, a single gold-bearing vein has been recognized at the Pioneer occurrence, and several small discordant veins with anomalous gold contents are present in trenches on the Parnell occurrence. The slope down to Victoria Gulch is north-facing, permanently frozen, and has almost no

outcrop; for these reasons the area has remained essentially unexplored. Colluvium is typically poorly developed on such permanently frozen north- and northeast-facing slopes in the western Yukon, and conventional soil geochemistry generally does not adequately reflect the presence of underlying mineralized zones. Victoria Gulch has been placer mined almost to the head; however, the gulch is quite narrow and there is only a minor amount of gravel present above the mouth of No. 13 Pup. Victoria Gulch has historically been considered to only contain significant placer gold below the mouth of No. 7 Pup, but this is clearly not entirely true.

There is abundant outcrop along the bed of Victoria Gulch above the mouth of No. 13 Pup, and this has been examined on a reconnaissance basis by the author as well as by Tim Liverton and Doug MacKenzie. Rock units exposed include pyritic felsic schist similar to that at the Boulder Lode, as well as mafic schist. Strong D4 deformation structures are present in many of the outcrops. There are also numerous discordant quartz veins, many containing pyrite, in outcrop, and abundant angular blocks of discordant quartz veins, some up to 1m in width, in float on the left limit of the creek. There is no record of any of these veins having been sampled for gold content.

Recommendations for Future Work

Gold-bearing discordant veins occur both as isolated single veins and as vein clusters or swarms (as at the Nugget, Dysle, Veronika and Boulder Lode zones). Based on our present understanding of the geology and nature of gold mineralization on Lone Star Ridge, it appears that the various discordant vein systems that have been discovered thus far are of too limited lateral and vertical extent to be mined individually. In addition, discordant veins outside of the main vein swarms are too widely spaced to form minable targets. This underscores the importance of the disseminated gold in felsic schist units, since gold-bearing wall rocks can obviously contribute to forming a bulk-minable resource with high grade “sweet spots” represented by the discordant vein swarms. Two main questions arise that must be answered in order to evaluate the gold potential of the property:

1. What is the lateral and vertical extent of the discordant vein systems? This has not been determined completely for any of the known vein swarms and it is therefore impossible as yet to fully evaluate the individual vein systems as minable targets. Detailed bulldozer trenching and diamond drilling to test the along-strike and down-dip extent of the gold zones is required as a very high priority. The rheology of host rocks in various parts of Lone Star Ridge may be an important factor to consider, since discordant vein systems in the relatively incompetent mica-rich schists along the crest of Lone Star Ridge in Boulder Lode area may be very different in character and possibly extent from those developed in more competent units such as the Klondike Schist undifferentiated unit (Nugget and Veronika zones), quartz augen schist (Dysle and 310 zones) or Sulphur Creek orthogneiss (Violet zone).
2. The nature and extent of disseminated gold in the pyritic felsic schist units in the vicinity of the Boulder Lode and along strike to the northwest and southeast must be assessed in order

to evaluate the potential for bulk minable targets in this area. The chargeability anomaly defined by the IP survey over the property can be used to roughly outline the surface extent and geometry of the pyritic felsic schist unit. Preliminary results of geochemical studies of the felsic schists now being carried out by the author suggest that it may be possible to construct a detailed chemostratigraphic subdivision of the felsic schist package, to identify the specific sub-units that carry disseminated gold, and to track them in surface exposures and drill core. This would serve two purposes; first, it would provide marker units or horizons that could be used to better constrain the nature of folding and faulting that has affected the felsic schist package, and second, it would allow the favourable gold-bearing units to be traced outside of the immediate Boulder Lode area. The geochemical study of samples and data from the general vicinity of the Boulder Lode (based mainly on 2005 Klondike Star drill holes) will be completed within the next few weeks. Tim Liverton is now reviewing available analytical results to determine whether usable data sets are available from diamond or reverse circulations drill holes, or from trench samples, from elsewhere on Lone Star Ridge. Assuming that a coherent story comes out of the initial study we will be able to test its application outside of the Boulder Lode area before the 2012 field season.

It is critical to evaluate the gold potential of the left-limit slope of upper Victoria Gulch. Therefore, a high priority for early in the 2012 season should be to revisit the bedrock exposures in the bed of Victoria Gulch above No. 13 Pup and sample all of the discordant quartz veins, both in outcrop and float, for gold and multi-element analysis. It also may be possible to collect samples of colluvium above the creekbed. Results of this work would help determine whether undiscovered gold-bearing vein systems are present on the slope above Victoria Gulch. If the results are positive then a means must be found to obtain contour lines of geochemical samples across the slope. This will require either trenching to bedrock (likely to be difficult) and/or auger drilling. It is uncertain at this point how thick the colluvium is likely to be in different parts of the slope.

The potential for gold-bearing quartz veins or rock units at depth beneath Lone Star Ridge is unknown. It has been proposed that one or more deep holes be drilled in 2012 to assess this. Deciding where to collar such holes will be critical, and drill locations should be selected to test as many of the questions and issues outlined in this report as possible.

The relationship between D4 deformation and gold vein systems needs to be better understood in order to be able to utilize structural studies to help predict the location, geometry and extent of discordant veins on the Lone Star property. Doug MacKenzie is the expert on this, and I recommend that he be brought in early in the 2012 season, first of all to train all of the Lonestar exploration crews on how to recognize and map D4 structures and then to continue investigating the role of D4 deformation on localizing gold on the property.

Exploring the Lone Star property using conventional soil geochemistry is complicated by three factors. First, because of permafrost on north- and northeast-facing slopes conventional

soil geochemistry is of little use in such areas. Second, any area that was covered by White Channel Gravels is likely to show at least trace amounts of gold in soils that has no relationship to underlying geology (this was shown clearly by geochemical surveys carried out by Arbor Resources in the 1980s). Finally, surficial materials in large portions of the Lone Star Ridge area, particularly along the crest and on the slope down to Eldorado Creek and towards the head of No. 7 Pup, have been so completely disrupted by lode exploration and placer gold operations that geochemical sampling of surficial materials will be of dubious value. Hand or power auger sampling of the C-horizon may be of use in some of these areas, where it can be certain that no local disruption has taken place.

Assessing the gold potential of the areas southwest of Eldorado and Bonanza Creeks is not a trivial problem. Much of this area consists of permanently frozen north- or northeast-facing slopes and conventional soil geochemistry will be of limited use. There are several known gold occurrences in the area (Violet, 310 Zone, Plinc, as well as several small galena-bearing vein occurrences on lower French Gulch), and one or more vein systems must have been feeding the relatively rich (but small) placer pay streak on Irish Gulch. With the exception of these areas, however, it is impossible to identify other areas on which to focus new work. I recommend that a detailed ridge-and-spur sampling program be carried out using hand augers to obtain C-horizon material for analysis from throughout the area. This survey should cover all of the main ridge crests and as far down the spurs as is possible (the crests of the spurs should be thawed relatively early in the season and so amenable to sampling). Several crosslines of auger sampling should be done across the veins in the Violet area, and perhaps a couple of contour lines across and below the 310 Zone and Plinc occurrence. This work should be done as early in the season as possible, so that results will be back from the labs early enough that they can be used to make decisions regarding new work in the area.

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Lone Star Corporation:

September 2011, Trench sampling Campaign at “Nugget” Zone
Map number 115 O 14
UTM Zone 07
Magnetic variation: 22 32'

By geologist Sandro Frizzi

TUESDAY 20 Sept 2011,

Trench 11/1

This is an old trench, dug by Klondike Star in 2004.



Lone Star Gold Corp. cleaned the west end of the trench for a total of m 18.74 in order to re-sample the rocks in a more appropriate way.

The sampled section has been delimited by peg A (located at m 0) on the west-end and by peg B (located at m 18.74) on the east-end (the trench is running at 102 degrees).

UTM at peg A: 07 V 0584916-7085688

UTM at peg B: 07 V 0584934-7085683

The depth of the trench is around m 1.40 at peg A and just few centimeters at peg B.

Trench 11/1 is cutting a package of gray-silvery mica-schist superficially rusty, weathered and disturbed. A strong foliation (S2 event) is present in the major part of the outcrop. The origin of these schist is probably metavolcanic.

Quartz veins and veinlets and quartz segregation in lens and lumps are running through the package of schist in different directions or filling up different type of cavity. Thus the silicification in this area is not particularly abundant like in other areas of this same property.

We decided to collect a big amount of the same specimen for every samples (few kilos per bag), in order to be able to conduct different type of analysis. The area is important: has been well known for showing the highest amount of gold in the property in proven samples assayed by labs.

Here it's a description of the samples collected at this trench, mostly along the north wall or along the floor:

-sample **74801**: at m 1 from peg A.

Quartz rock-chips collected along a small discordant veinlet (3 cm wide) running for m 1.5 in a diagonal along the N wall.

The strike is 300, the dip is 46 NE. No visible mineralization along the vein, rusty along the selvedge zone. The quartz is less milky than in other veins. Nothing particular noticeable along the hosting schists.



-sample **74802**: at m1 from peg A.

Panel sample (cm 50 x cm 100) collected in the schist hosting the veinlets previously sampled. The main foliation of the schists (S2) is measuring: strike 95 and dip 40 SW.

-sample **74803**: at m 3.50 from peg A.

Panel sample (cm 50 x cm 50) collected along the north wall, in schists. The main foliation (S2) here is so oriented: strike 104, dip 40 SW.

-sample **74804**: at m 6.40 from peg A.

Schists hosting a discordant quartz vein (above the vein). Nothing particular noticeable in these schists beside a small number of very little well formed cubes of weathered pyrite.

-sample **74805**: at m 6.40 from peg A.

Quartz vein running for a couple of meters at 288 degrees with a dip of 52 NE degrees. Milky quartz, cm 15 wide, no mineralization is visible. Some rusty parts along the vein.

-sample **74806**: at m 6.40 from peg A.

Schists hosting the discordant quartz vein previously sampled (the portion down the vein). The strike of S2 is 120, the dip is 14 SW. Here it's possible to measure the direction of L4: 38-150.

Nothing particular is noticeable on these schists.



-samples **74807-74808**: at m 7.80 from peg A.

Panel samples (cm 50 x cm 50) on schists with a conspicuous presence of well formed, little (mm 1 – mm 8) cubic crystals of pyrite.

-samples **74809-74810**: between m 6.00 and m 7.70 from peg A.

Samples collected along the same discordant quartz vein (selvedge zone included) in an interval of m 1.70. Milky quartz with rusty edges and some visible pyrite increasing toward E (m 7.70).

-samples **74811-74812-74813**: at m 10.00 from peg A.

Three samples crossing a big undetermined quartz vein (possibly a segregation) apparently running diagonally (NW-SE) along the floor of the trench (320). The quartz is milky, apparently sterile, very compact. Sample 74811 has been collected from the schist on the W side of the vein. Sample 74812 has been collected along the vein (selvedge zone included). Sample 74813 has been collected from the schist on the E side of the vein.

Nothing particular to signal about this area.

-samples **74814-74815**: between m 16.00 and m 18.50 from peg A.

Interesting little vein (cm 2) intruded in schist along a possible fault running W-E

at 98 degrees along the floor, toward the end of the trench.

The little vein is very mineralized, specially along the narrow selvage zone (mm 4). It's a discordant vein.

The quartz is less milky, more spongy and crystallized than has commonly been observed in the bigger veins. The schists hosting this vein don't show any



particular characteristic which is worth mentioning.

-sample **74816**: at m 17.40 from peg A.

Similar veinlet running normal to the previous, in direction S-N, at 02 degrees. This vein is joining the previous from south at m 17.40, but is not crossing it (it stops at the vein). This little vein it seems to be filling a fracture in an extensional area.

-sample **74817**: at m 17.50 from peg A.

Panel sample in the schists located in the proximity of the two veinlets. The main foliation (S2) here is showing strike 68 and dip 22 SE.

Nothing particular to be recorded.

End of sampling at Trench 11 / 1

WEDNESDAY 21 Sept 2011

Trench 11 / 2

Another already existing trench (Klondike Star 2005) that we decided to re-investigate.

In this case we cleaned only the very beginning (west-side) for m 5.76 (with peg A signing m 0, peg B signing m 5.76).

The Trench is more a pit than a trench and it's particularly deep (m 3.20) in order



to expose non-weathered rocks.

Trench 11/2 is running in a SW-NE direction (36).

It's located at an approximate distance of m 50 N from Trench 11/1.

The exposed rocks are metavolcanic mica-schists, more greenish (from chlorite) than those at Trench 11/1.

The general orientation of the main foliation (S2) is clearly measurable along the south-face wall of the pit and it's: strike 78, dip 30 SE.

No quartz, under any form (veins or segregation) is visible at this trench.

No visible mineralization is noticeable.

No relevant structures (faults or folds) have been recorded.

We collected 4 samples, carved from in two panels traced in the schists along the south-face wall.

-samples **74818-74819**: between m 3.50 and m 4.20 from peg A.

Two bags collected from the upper panel (from m 0 to m 1.60 of depth)

-samples **74820-74821**: between m 3.50 and m 4.20 from peg A.

Two bags collected from the lower panel (from m 1.60 to m 3.20 of depth).



Note: Essays conducted in the past (2005 by Klondike Star) at Nugget Zone, have proven a gold presence in schists. At Trench 11/2 we are testing the package of schist in order to verify the reliability of this information which it will be extremely important for our research.

End of sampling at Trench 11 / 2

FRIDAY 23 Sept 2011,

Trench 11 / 3.

The 11/3 is a new trench, dug by Simon Lucas for Lone Star Gold during this September 2011.

The location, the direction and the length of this trench have been choose by the company's exploration manager, Senior Geologist and PhD Tim Liverton, in order to verify the possible continuity of a strong gold presence in the area, tested and proved by Klondike Star Mineral Exploration Corp (2004-2007).

Visible gold has been collected during the exploration seasons of 2004, 2005 and 2006 with different techniques, on several quartz veins running along trenches located near the proximity of this area (the "Nugget Zone"). Presence of gold (certified from lab essay) it's also extended to part of the schists sampled along few of these trenches.

Trench 11/3 is long m.31.40 (from peg A, at m 0, to peg B, at m 31.40).
UTM at peg A (SW): 07 V 0585019 – 7085649.
UTM at peg B (NE): 07 V 0585038 – 7085678.

The average depth from the surface is m 1.60 with a width between m 1.70 and m 2.00.

The orientation of the trench is SW-NE (36).

The trench is cutting a package of grey-greenish mica-schist, probably metavolcanics, very foliated.

The orientation of the main foliation (S2) generally is:

- at m 5.00 from peg A: strike 130, dip 22 SW
- at m 15.70 from peg A: strike 112, dip 36 SW
- at m 26.60 from peg A: strike 88, dip 44 SE.



Few quartz veins (two) and only small quartz segregation are visible along the trench.

The first vein is clearly visible, it's running (strike 288, dip 40 NE) across the floor and along the walls of the trench at m 8.5 from peg A.

It's a milky-quartz discordant vein, with a variable width of 30-40 centimeters.

The quartz is showing extended rusty areas but no visible mineralization. The selvedge zone (few millimeters) is rusty and blackish and, once again, there is no visible mineralization.

We sampled all along the vein (samples **74838-74839**) and then all the proximity along the schist hosting the vein (samples **74840-74841**).

The second quartz vein is crossing the floor of the trench at m 23.50 from peg A.

It's not easy to classified this vein (part of an older vein-system? Simply a segregation?) for the reason that it's seem to be deeply disturbed by different phases of deformation. The quartz is milky, brittle and rusty.

The vein is apparently running along the walls too (like a vein) in a series of fractured quartz blocks.

The width is passing from the cm 25 along the floor to the cm 7–15 along the walls. Lens of quartz are located at different levels, feeding the suspect that we



can be in front to a tricky segregation vein-type like.

Anyway, without loose our time in speculation, we sample the quartz all along this extension (samples **74842-74843**) and along the hosting schists beside it (samples **74844-74845**).

Other quartz segregation in the trench can be observed in very small lens distributed here and there, lacking significance for our research.

In general we can affirm that the level of silicification along these trenches is scarce, certainly below what's noticeable in other trenches disseminated along different areas of this property.

From peg A (m 0) to peg B (m 31.40), we collected 16 samples (from **74822** to **74837**), one every two meters, along a channel 20 cm wide, carved in the south-face wall of the trench.



End of sampling at Trench 11/3.

Every single one of the samples collected will be mechanically pulverized, mixed and divided in two bags: one bag will be sent to a certified Lab for assay and the other one will be kept in storage by Lone Star Gold Corporation, for further analysis. The results of the trench-sampling campaign at “Nugget Zone” should be produced within the next two months.

Dawson City, 26 Sept 2011

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