

4464

REPORT

on

GEOCHEMICAL AND GEOLOGICAL

SURVEYS

REG. DY. AND PINE CLAIMS

SIMILKAMEEN MINING DIVISION

for

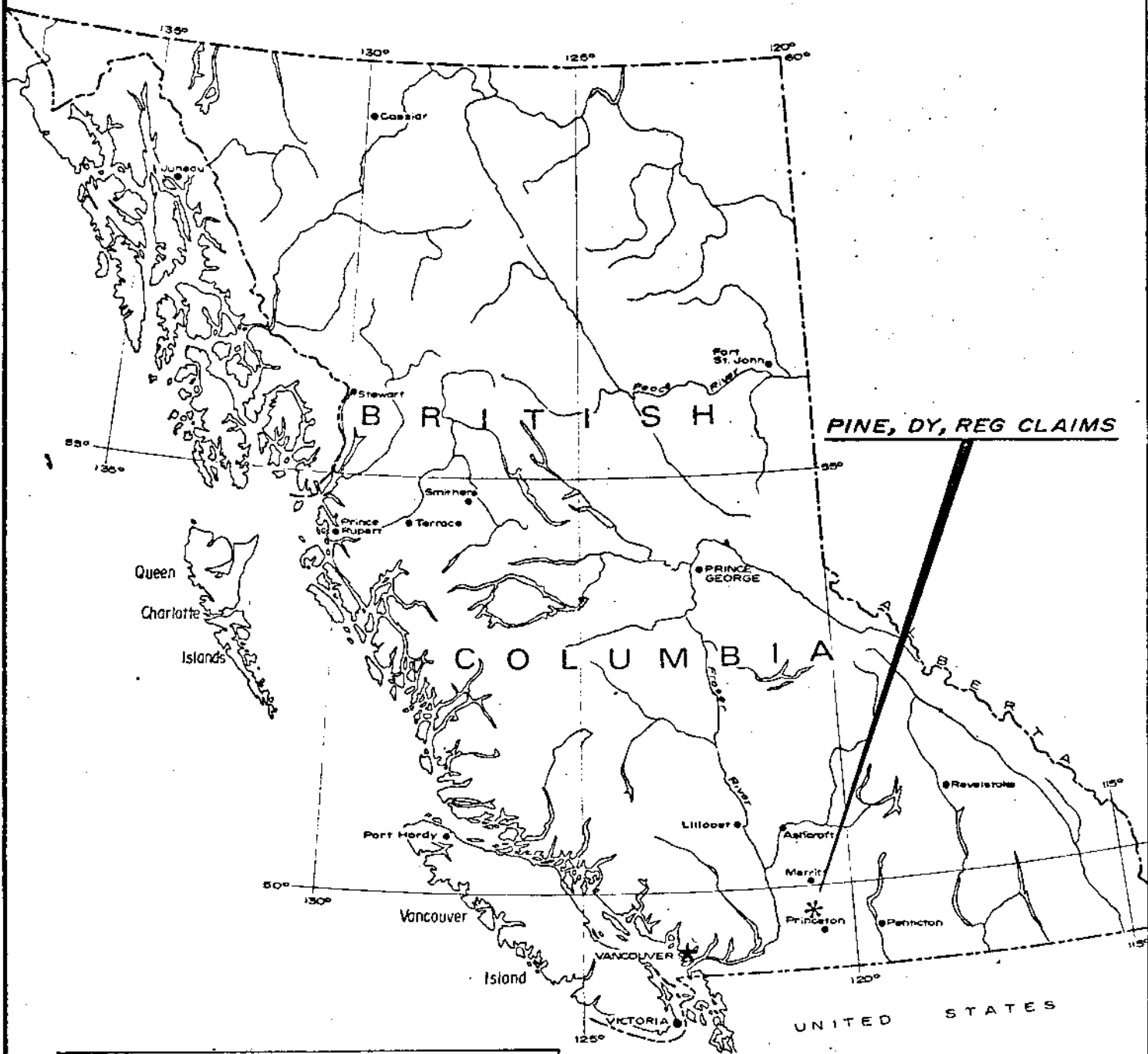
BLUE GULCH EXPLORATIONS LTD. (N.P.L.)

by

John R. Poloni, B. Sc., P. Eng.

June 10, 1973

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 4464 MAP



Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 4464 MAP # 4

BLUE GULCH EXPLORATIONS LTD. (N.P.L.)

PROPERTY LOCATION MAP

SIMILKAMEEN M.D.

JOHN R. POLONI B.Sc., P. Eng.

SCALE: 1" = 136 Miles JULY 6, 1972

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SUMMARY AND CONCLUSIONS

Blue Gulch Explorations Ltd. (NPL), currently controls a block of 59 contiguous mineral claims located near Allison Lake, 16 miles north of Princeton, British Columbia.

Geological and geochemical surveys were undertaken by the author during the period May 23 to June 10, 1973 and assessment was filed on June 18, 1973 to retain the claims in good standing.

The geochemical soil survey indicated only weak anomalies which do not require any further exploration at this time. As not all the claims were covered in the survey, it is recommended further exploration be undertaken on the northerly part of the block, including the Dy (3-8) and the Reg (1-16) claims.

INTRODUCTION

During the period May 23 to June 10, 1973 the author conducted an exploration program consisting of geological mapping and geochemical soil sampling along an established grid of 45.7 line miles, over parts of the Pine, Reg and Dy claims.

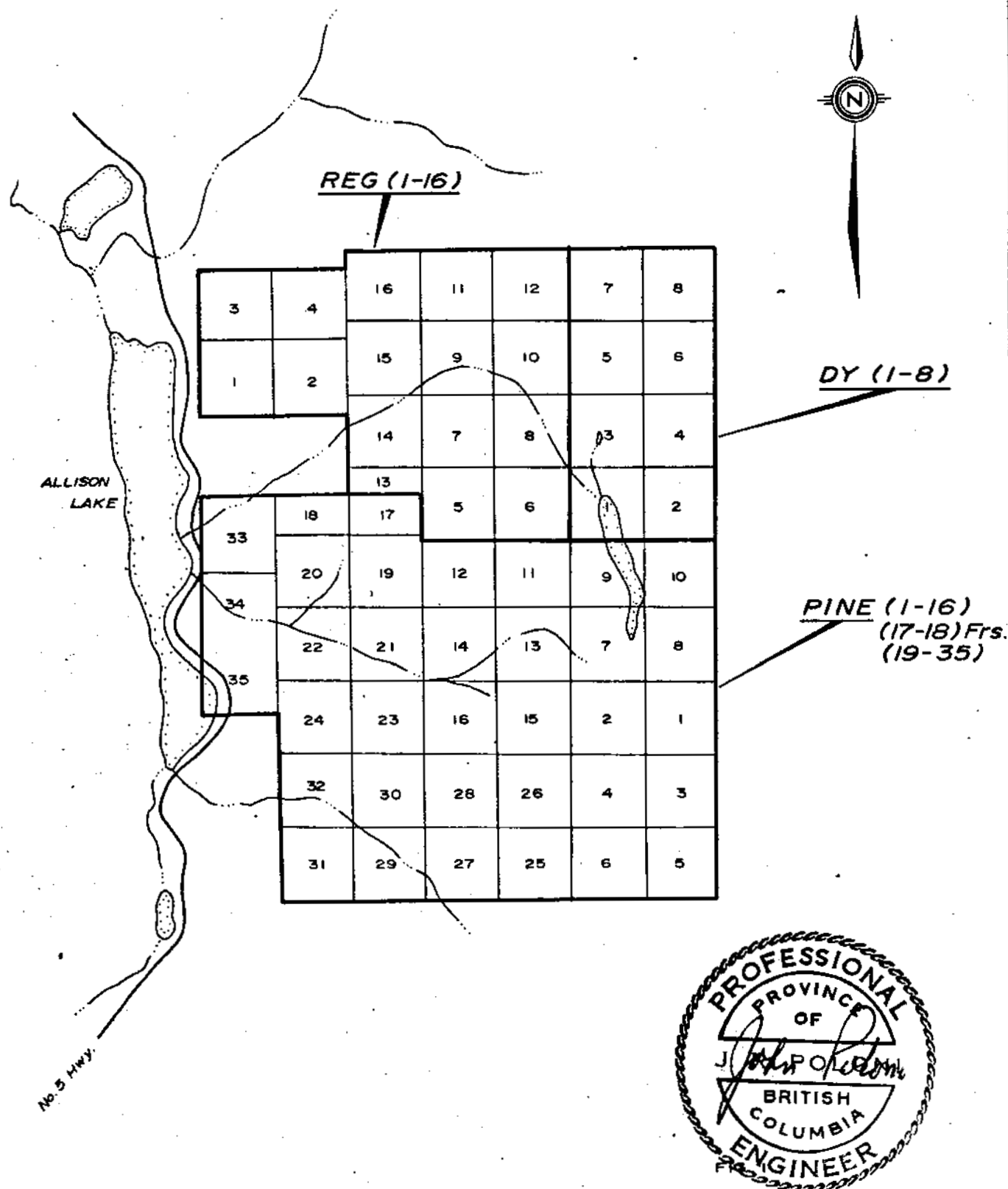
A total of 1096 soil samples were taken and assayed for copper during this program.

Blue Gulch controls this block of 59 contiguous claims located immediately east of Allison Lake, approximately 16 miles north of Princeton, British Columbia.

This report summarizes the results of this exploration work.

LOCATION MAP

Fig #1



Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. **4464** MAP **#1**

BLUE GULCH EXPLORATIONS LTD. (N.P.L.)

CLAIM LOCATION MAP

SIMILKAMEEN M.D.

JOHN R. POLONI B. Sc., P. Eng.

SCALE: 1" = 3000' JULY 6, 1972

PROPERTY

Located at Latitude 49° 24' N. and Longitude 120° 36' W., the property consists of 59 contiguous mineral claims situated immediately east of Allison Lake. The following claims data was obtained from the Department of Mines and Petroleum Resources at Vancouver:

<u>Claim Name</u>	<u>Record No.'s</u>	<u>Expiry Date</u>
Pine 1-16 17 and 18 Fr's	22615 - 48	June 18, 1973
Reg 1-16	23526 - 41	Sept 26, 1973
Dy 1-8	23542 - 49	Sept 26, 1973

Assessment has been applied on June 18, 1973, as follows: Pine (1-7) - 2 years; Pine (8-35), Reg (1-16) and Dy (1-8) - 1 year.

LOCATION AND ACCESS

The claims are located immediately east of Highway #5 at Allison Lake, approximately 16 miles north of Princeton, British Columbia. Old logging roads suitable for four-wheel drive vehicles provide easy access to the property.

A British Columbia hydro electric power line and a gas transmission line cross the claims. The nearest railway facilities are available in Princeton.

PHYSIOGRAPHY, GLACIATION AND CLIMATE

The reader is referred to a report by the author for Blue Gulch Exploration Ltd., dated July 6, 1972, for information relating to the above topics.

HISTORY

Previous exploration, directed by the late Dr. Skerl during 1968, examined a geochemical anomaly which was approximately 1,400 feet in diameter. Bulldozer trenching confirmed the presence of low grade copper.

During December, 1969 and January, 1970, Rae G. Jury of Alrae Engineering Ltd., supervised a diamond drilling program consisting of 2,102 feet of NX size core in 3 holes. This program failed to confirm the extension of the mineralization found in the trenches, in the directions tested.

The present program was designed to examine as much of the property, left untested by the initial surveys, as was possible.

GEOLOGY

Memoir 243, G. S. C. by H. M. A. Rice, 1946, describes Jurassic Coast Intrusive granites and granodiorites, contacting Triassic Nicola Group volcanic and sedimentary rocks as occurring in the area of the claims.

Outcrop frequency is low on the property as is evidenced by Fig #2, but both Nicola Group and Intrusive rocks occur on the claims.

The Allison Lake fault zone, consisting of an en echelon arrangement of closely related faults, occurs immediately east of Allison Lake. This zone is seen to be over 100 feet wide, of gossan-like material, in a road cut near the south end of Allison Lake.

GEOCHEMICAL SOIL SURVEY

A total of 1,096 soil samples of B-horizon material taken along grid lines 400 feet apart at stations 200 feet apart were analysed for copper using the following parameters:

Mesh Size	-	-80
Analytical Method	-	Atomic Absorption
Digestion Method	-	HClO ₄ + HNO ₃

The survey consisted of 45.7 line miles of grid.

Examination and calculation of the analytical data resulted in the following parameters being evolved for anomalous conditions.

Mean	28 ppm copper
Threshold	54 ppm copper
Possibly Anomalous	80 ppm copper
Probably Anomalous	110 ppm copper

The geochemical soil program indicates only low values for copper, generally. Several one and two station anomalies are indicated with values above the "probably anomalous" range. The strongest zone occurring at 0+00 on lines 24+00 and 28+00 N. is believed to be related to the area previously drilled.

COST OF THE EXPLORATION PROGRAM

Period

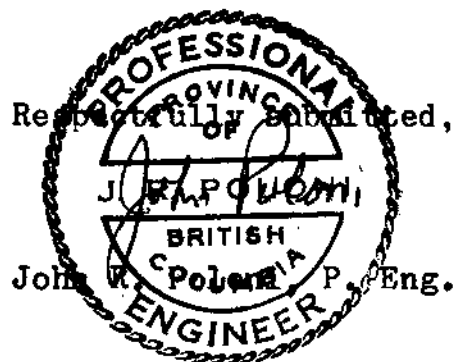
May 23 to June 10, 1973.

Personnel

D. Blanchat	Field Assistant
J. Hudson	Field Assistant
M. Kipling	Field Assistant
J. Poloni	Geologist, P. Eng.

Costs

Geochemical Survey including line grid	
45.7 line miles @ \$90.00 =	\$4,113.00
Geology	800.00
Assays	<u>1,304.65</u>
Total	<u><u>\$6,217.65</u></u>



RECOMMENDATIONS

The soil geochemical program indicates several small zones considered to be "probably anomalous" as defined by the parameters of the survey. These are generally one or two station anomalies which are not unusually strong. The zone outlined at the north-western corner of the surveyed area is believed to be part of the area previously examined by trenching and diamond drilling. No further work is recommended on this part of the property at this time.

Further exploration is recommended to cover the part of the group not surveyed, including Dy(3-8) and Reg(1-16). This program should consist of geological and geochemical surveys.

APPENDIX A

Assay Data

June 12, 1973

Blue Gulch Explorations Ltd., (NPL)
1700 - 777 Hornby Street,
Vancouver, B.C.

Lab 979G

Geochemical analysis for copper

Mesh Size: - 80
Analytical Method: Atomic Absorption
Digestion Method: $\text{HClO}_4 + \text{HNO}_3$

Sample Marked:	Copper ppm	Sample Marked:	Copper ppm	Sample Marked:	Copper ppm
A 1	39	A 26	84	A 51	24
2	12	27	28	52	18
3	26	28	14	53	24
4	74	29	22	54	25
5	16	30	40	55	23
6	22	31	40	56	26
7	14	32	56	57	50
8	20	33	60	58	30
9	27	34	22	59	19
10	15	35	24	60	22
11	50	36	32	61	25
12	34	37	36	62	35
13	20	38	28	63	32
14	32	39	26	64	35
15	22	40	37	65	32
16	30	41	25	66	29
17	16	42	23	67	28
18	22	43	32	68	26
19	38	44	22	69	22
20	32	45	12	70	16
21	46	46	44	71	94
22	62	47	34	72	36
23	38	48	44	73	54
24	44	49	36	74	43
A 25	20	A 50	32	A 75	28

Sample Marked:	Copper	Sample Marked:	Copper	Sample Marked:	Copper
A 76	16	A 111	33	A 146	18
77	17	112	35	147	26
78	30	113	20	148	54
79	70	114	46	149	22
80	20	115	38	150	14
81	20	116	34	151	22
82	14	117	40	152	17
83	18	118	28	153	15
84	24	119	30	155	22
85	22	120	30	156	35
86	29	121	40	157	28
87	30	122	43	158	20
88	33	123	34	159	17
89	19	124	33	160	30
90	19	125	24	161	20
91	20	126	32	162	14
92	24	127	37	163	14
93	26	128	35	164	13
94	23	129	34	165	23
95	22	130	21	166	24
96	40	131	27	167	17
97	46	132	30	168	31
98	24	133	24	169	20
99	32	134	30	170	42
100	46	135	30	171	168
101	32	136	36	172	276
102	28	137	22	173	28
103	56	138	42	174	28
104	24	139	54	175	33
105	38	140	36	176	38
106	33	141	30	177	26
107	30	142	28	178	26
108	25	143	24	179	34
109	35	144	94	180	40
A 110	38	A 145	23	A 181	34

Sample Marked:	Copper ppm	Sample Marked:	Copper ppm	Sample Marked:	Copper ppm
A 182	30	A 217	19	A 252	17
183	37	218	28	253	18
184	37	219	24	254	48
185	17	220	50	255	24
186	43	221	33	256	20
187	43	222	27	257	18
188	15	223	23	258	25
189	14	224	22	259	22
190	18	225	24	260	24
191	30	226	19	261	30
192	26	227	20	262	24
193	17	228	17	263	26
194	14	229	24	264	28
195	19	230	24	265	27
196	8	231	25	266	20
197	25	232	19	267	16
198	15	233	33	268	17
199	12	234	28	269	24
200	20	235	32	270	24
201	42	236	33	271	23
202	22	237	48	272	13
203	20	238	28	273	12
204	28	239	20	274	25
205	120	240	18	275	24
206	22	241	18	276	28
207	19	242	16	277	22
208	38	243	14	278	20
209	39	244	36	279	16
210	36	245	14	280	12
211	38	246	20	281	12
212	22	247	19	282	28
213	30	248	12	283	22
214	17	249	28	284	26
215	28	250	12	285	34
A 216	21	A 251	12	A 286	20

Sample Marked:	Copper	Sample Marked:	Copper	Sample Marked:	Copper
A 287	30	A 322	22	A 357	36
288	36	323	18	358	39
289	36	324	22	359	30
290	48	325	30	360	30
291	40	326	26	361	28
292	30	327	36	362	22
293	44	328	20	363	30
294	42	329	24	364	34
295	44	330	16	365	22
296	40	331	18	366	20
297	36	332	16	367	22
298	38	333	24	368	24
299	34	334	16	369	22
300	28	335	34	370	34
301	54	336	30	371	52
302	42	337	54	372	24
303	40	338 (1)	24	373	20
304	58	338 (2)	10	374	16
305	60	339	16	375	18
306	32	340	10	376	14
307	48	341	30	377	10
308	32	342	22	378	24
309	34	343	18	379	12
310	74	345	34	380	22
311	62	346	44	381	20
312	22	347	36	382	20
313	42	348	34	383	22
314	18	349	52	384	20
315	16	350	22	385	12
316	16	351	36	386	12
317	22	352	26	387	16
318	26	353	26	388	38
319	38	354	25	389	22
320	38	355	28	390	14
A 321	46	A 356	24	A 391	48

Sample Marked:	Copper	Sample Marked:	Copper	Sample Marked:	Copper
A 392	38	A 427	40	A 462	22
393	28	428	30	463	24
394	20	429	40	464	34
395	34	430	38	465	36
396	46	431	40	466	42
397	26	432	44	467	34
398	30	433	50	468	32
399	56	434	40	469	24
400	18	435	32	470	46
401	14	436	40	471	18
402	12	437	42	472	22
403	22	438	53	473	28
404	18	439	46	474	36
405	20	440	46	475	36
406	18	441	48	476	38
407	90	442	36	477	36
408	82	443	54	478	28
409	38	444	46	479	26
410	58	445	36	480	28
411	22	446	30	481	46
412	30	447	64	482	34
413	34	448	98	483	28
414	22	449	70	484	26
415	28	450	46	485	28
416	36	451	36	486	38
417	32	452	44	487	50
418	58	453	42	488	44
419	32	454	106	489	46
420	30	455	34	490	44
421	84	456	40	491	44
422	190	457	40	492	42
423	28	458	56	493	50
424	40	459	56	494	50
425	44	460	14	495	34
A 426	104	A 461	26	A 496	34

Sample Marked:	Copper PPM	Sample Marked:	Copper PPM	Sample Marked:	Copper PPM
A 497	42	A 532	18	A 567	26
498	24	533	20	568	28
499	40	534	12	569	24
500	30	535	12	570	32
501	36	536	14	571	38
502	40	537	12	572	32
503	34	538	20	573	30
504	20	539	32	574	30
505	20	540	40	575	26
506	24	541	42	576	18
507	32	542	28	577	32
50;8	24	543	42	578	26
509	26	544	32	579	36
510	18	545	38	580	42
511	24	546	20	581	24
512	12	547	35	582	38
513	12	548	22	583	40
514	14	549	38	584	28
515	64	550	24	585	24
516	20	551	24	586	26
517	14	552	14	587	26
518	10	553	28	588	63
519	18	554	28	589	18
520	20	555	20	590	42
521	20	556	16	591	34
522	14	557	26	592	20
523	20	558	24	593	30
524	28	559	26	594	34
525	24	560	18	595	46
526	108	561	24	596	50
527	14	562	32	597	36
528	64	563	52	598	34
529	28	564	33	599	20
530	30	565	38	600	14
A 531	14	A 566	44	A 601	56

Sample Marked:	Copper	Sample Marked:	Copper	Sample Marked:	Copper
A 602	30	A 637	36	A 672	20
603	14	638	32	673	14
604	42	639	34	674	18
605	22	640	40	675	14
606	16	641	44	676	14
607	12	642	34	677	12
608	12	643	26	678	12
609	14	644	42	679	14
610	20	645	34	681	22
611	14	646	30	682	42
612	8	647	42	683	36
613	6	648	80	684	34
614	8	649	26	685	10
615	12	650	22	686	30
616	12	651	20	687	24
617	4	652	42	688	34
618	10	653	30	689	28
619	10	654	110	690	34
620	8	655	16	691	34
621	14	656	20	692	30
622	10	657	46	693	34
623	24	658	18	694	30
624	26	659	16	695	34
625	22	660	24	696	34
626	30	661	32	697	68
627	30	662	18	698	42
628	24	663	32	699	42
629	48	664	88	700	38
630	42	665	30	701	22
631	42	666	18	702	16
632	36	667	54	703	18
633	46	668	48	704	16
634	34	669	74	705	18
635	28	670	36	706	14
A 636	32	A 671	16	A 707	20

Sample Marked:	Copper	Sample Marked:	Copper	Sample Marked:	Copper
A 708	16	A 743	34	A 778	12
709	20	744	34	779	30
710	20	745	no sample	780	60
711	22	746	36	781	30
712	39	747	34	782	10
713	22	748	44	783	22
714	24	749	42	784	18
715	22	750	28	785	32
716	26	751	20	786	26
717	20	752	23	787	14
718	20	753	22	788	36
719	40	754	26	789	12
720	26	755	16	790	18
721	13	756	16	791	34
722	13	757	14	792	16
723	76	758	16	793	17
724	14	759	14	794	34
725	20	760	16	795	36
726	40	761	18	796	36
727	13	762	22	797	14
728	12	763	20	798	8
729	13	764	16	799	24
730	16	765	20	800	20
731	16	766	32	801	20
732	13	767	20	802	20
733	42	768	30	803	22
734	33	769	24	804	28
735	36	770	30	805	14
736	24	771	34	806	10
737	26	772	16	80;7	22
738	38	773	22	808	28
739	36	774	16	809	14
740	32	775	14	810	14
741	20	776	36	811	24
A 742	38	A 777	13	A 812	16

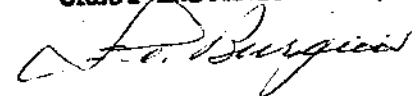
Sample Marked:	Copper	Sample Marked:	Copper	Sample Marked:	Copper
A 813	16	A 848	30	A 884	20
814	22	849	30	885	44
815	14	850	28	886	50
816	24	851	24	887	46
817	22	852	14	888	36
818	16	853	18	889	40
819	16	854	14	890	50
820	10	855	14	891	26
821	16	856	26	892	18
822	10	857	20	893	22
823	8	858	14	894	22
824	18	859	12	895	18
825	20	860	16	896	26
826	22	861	14	897	12
827	28	862	18	898	16
828	28	863	24	899	14
829	12	864	14	900	20
830	22	865	18	901	18
831	30	866	34	902	18
832	20	867	34	903	14
833	32	868	46	904	32
834	28	869	18	905	12
835	28	870	18	906	6
836	44	871	12	907	8
837	30	872	14	908	12
838	38	873	12	909	56
839	44	874	26	910	8
840	46	875	18	911	26
841	48	876	18	912	20
842	36	877	14	913	14
843	34	878	12	914	30
844	44	880	16	915	14
845	24	881	30	916	52
846	30	882	38	919	14
A 847	42	A 883	32	A 920	12

Sample Marked:	Copper	Sample Marked:	Copper	Sample Marked:	Copper
A 921	20	A 932	12	A 997	20
923	12	963	12	998	14
924	4	964	14	999	22
925	16	965	20	1000	22
927	8	966	16	1001	28
928	14	967	12	1002	16
929	12	968	10	1003	38
930	20	969	14	1004	32
932	40	970	20	1005	10
933	26	971	10	1006	24
934	16	972	14	1007	20
935	30	973	6	1008	14
936	12	974	16	1009	20
937	24	975	14	1010	22
938	22	976	12	1011	12
939	22	977	10	1012	16
940	18	978	10	1013	18
941	28	979	24	1014	14
942	26	980	16	1015	12
943	34	981	16	1016	16
944	26	982	24	1017	14
945	32	983	24	1018	16
946	26	984	36	1019	16
947	12	985	34	1020	22
948	26	986	24	1021	18
952	22	987	18	1022	16
953	24	988	28	1023	20
954	14	989	28	1024	18
955	18	990	30	1025	24
956	18	991	42	1026	50
957	24	993	36	1027	34
958	18	993	36	1028	18
959	18	994	52	1029	28
960	12	995	70	1030	28
A 961	12	A 996	24	A 1031	24

Sample Marked:	Copper	Sample Marked:	Copper	Sample Marked:	Copper
A 1032	44	A 1067	12	A 1104	24
1033	44	1068	22	A 1105	24
1034	22	1069	10		
1035	26	1070	10		
1036	36	1072	16		
1037	32	1073	8		
1038	32	1074	16		
1039	46	1075	10		
1040	28	1076	12		
1041	52	1077	16		
1042	32	1079	16		
1043	36	1080	8		
1044	24	1081	14		
1045	22	1082	12		
1046	28	1083	10		
1047	16	1084	10		
1048	24	1085	24		
1049	18	1086	24		
1050	24	1087	24		
1051	16	1088	32		
1052	20	1089	20		
1053	22	1090	18		
1054	16	1091	34		
1055	16	1092	22		
1056	16	1093	18		
1057	14	1094	40		
1058	16	1095	24		
1059	12	1096	36		
1060	12	1097	40		
1061	10	1098	24		
1062	12	1099	22		
1063	10	1100	24		
1064	14	1101	20		
1065	12	1102	22		
A 1066	10	A 1103	24		

Yours truly,

CREST LABORATORIES (B.C.) LTD.,



F. C. Burgess
Chief Assayer

APPENDIX B

References

REFERENCES

1. Cockfield, W.E. 1961, G.S.C. Memoir 249
Geology and Mineral Deposits of Nicola Map
Area, British Columbia.
2. Rice, H.M.A. (1960) G.S.C. Memoir 243,
Geology and Mineral Deposits of the
Princeton Map Area, British Columbia.
3. Geology Exploration and Mining in British
Columbia 1969, 1970. British Columbia
Department of Mines and Petroleum Resources.
4. Report by the author, "Report on the Reg, Dy,
and Pine, Mineral Claims, Allison Lake Area,
Similkameen Mining Division, for Blue Gulch
Exploration Ltd. (N.P.L.), July 6, 1972."

APPENDIX C

Writer's Certificate

CERTIFICATE

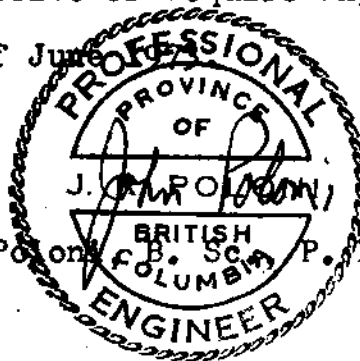
I, John R. Poloni, of 5502 - 8B Avenue, in Delta,
in the Province of British Columbia

DO HEREBY CERTIFY THAT:

1. I am a Consulting Geologist.
2. I am a graduate of McGill University of Montreal, Quebec, where I obtained a B. Sc. degree in Geology in 1964.
3. I am a registered Professional Engineer in the Geological Section of the Association of Professional Engineers of the Province of British Columbia.
4. I have practiced my profession since 1964.
5. I am a Fellow of the Geological Association of Canada and a member of the Canadian Institute of Mining and Metallurgy.
6. I am a member of the Association of Geologists of Quebec.
7. I have supervised the work programs reported on herein.
8. I have no interest in the properties or securities of Blue Gulch Explorations Ltd., nor do I expect to receive or acquire any.

Dated this 10th Day of June

John R. Poloni, P. Eng.

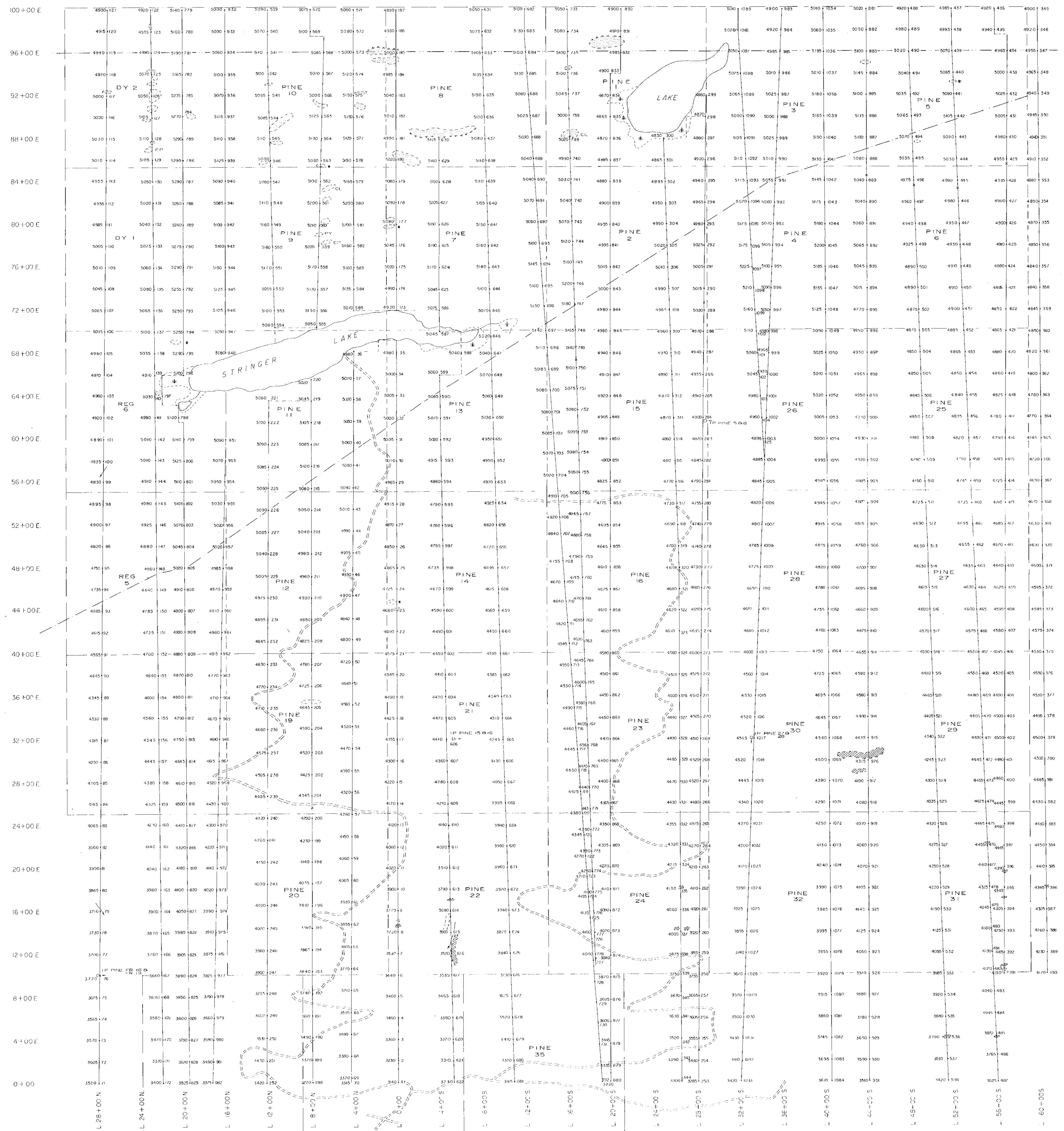


APPENDIX D

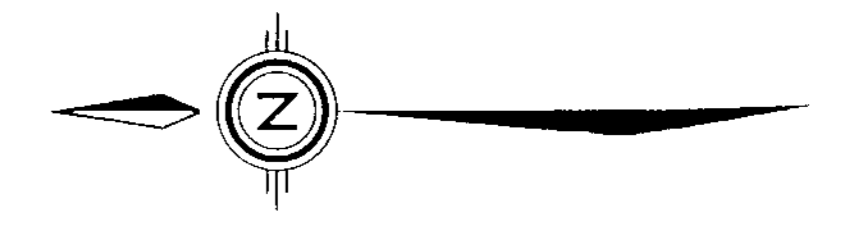
Maps in Pocket

General Compilation Fig #2

Soil Geochemical Plan Fig #3



100+00 E
 96+00 E
 92+00 E
 88+00 E
 84+00 E
 80+00 E
 76+00 E
 72+00 E
 68+00 E
 64+00 E
 60+00 E
 56+00 E
 52+00 E
 48+00 E
 44+00 E
 40+00 E
 36+00 E
 32+00 E
 28+00 E
 24+00 E
 20+00 E
 16+00 E
 12+00 E
 8+00 E
 4+00 E
 0+00



- LEGEND**
- B.C. Hydro Transmission Line
 - Gas Transmission Line
 - Road (4 Wheel Drive)
 - Outcrop
 - CIVIS
 - 4000 200 Soil Sample Location
 - Intermediate 1 elines
 - Claim Boundaries (As per mineral reference map)
 - Claim Post (Arrow indicates direction to No 2 Post)
 - ⊕ Minsh
 - COAST INTRUSIONS (Granodiorite & Quartz Diorite)
 - VOLCANICS (Nicola Group?) Andesite, Angilite, Tuff
 - ⊕ Outcrop contains Aplite Dike - altitude undefined
 - HY Pyrite
 - CH Chert
 - EP Epidote
 - X.M.C. Melchiorite staining on float or lens

**4464
 M2**



FIG. 2
 BLUE GULCH EXPLORATIONS LTD.

ALLISON LAKE PROPERTY
 GENERAL COMPILATION
 SIMILKAMEEN MD., B.C.

JOHN R. POLONI, P. ENG.
 DRAWN BY: D.G. BRANKIN-1 SCALE: 1"=400' DATE: JUNE 10, 1973

