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VERNON AREA PROSPECT EXAMINATIONS

On October 2 - 4, 1987 I examined three properties and several road cuts in the Vernon area of B.C. accompanied by Daryl Stinson. It was hoped that composite rock chip samples of variably pyritic zones known to Stinson might contain precious metal values. Unfortunately, of thirty samples collected by myself only two contained above background values in gold - silver and both of these were only weakly anomalous. I conclude that the Pillar Lake, Falkland and Trinity Valley properties have little or no potential for precious metal discoveries.

The **Pillar Lake** property, located 12 kilometers northwest of Falkland is open ground immediately west of Pillar Lake. Stinson refers to this as the Snuffbox property. At some time in the past, five or six trenches have been excavated by bulldozer on a flat-topped, north trending ridge. Two meters or so of glacial gravel lie on top of a thin, irregular cap of flat lying Tertiary basalt. Strongly foliated and distorted Nicola Group black argillites and platy limestones lie beneath the basalts. Samples 87WR240 - 242 are pyritic graphitic argillites with quartz-calcite stringers. Sample WR241 contains very weakly anomalous silver (3.1 ppm) copper (109 ppm) and zinc values (384 ppm). The other samples contain only background values. I could not determine why the trenching had been undertaken in the past and can see no encouragement to recommend future work.

A small, rusty outcrop of weakly pyritic mafic metavolcanics on the Bolean Creek road, sampled as 87WR243 contained no significant metal values. Pyritic sericite schists are exposed in a small creek cliff face 500 feet east of the bridge at mile 5 of the Pillar Lake road. Sample WR244 from this locality also contained no significant metal values.

The **Falkland** property, referred to as the 'Spanish' property by Stinson, is located 5 kilometers east of Falkland, north of Mount Connaught and south of Bolean Lake. Stinson has staked, but not recorded, 18 units previously explored by geochemistry, I.P. and trenching by El Paso (AB property, Gerry Noel, Assessment Report 4830). The main trench exposes Nicola Group interbedded chlorite schists and quartz-sericite schists which were probably mafic and felsic volcanic tuffs before metamorphism. Chalcopyrite (malachite, azurite) pyrite occur as disseminations in

several bands up to 1 meter thick through a section about 20 meters wide exposed along a 100 meter strike length. Samples WR246-252 contain copper values up to 1.4% with up to 5-9 ppm Ag and 125 ppb Au. Zinc and arsenic values are weakly anomalous. The mineralized section dips parallel to the hillslope and appears to be an isolated erosional outlier about 100 meters in diameter with no significant tonnage potential. A soil geochemical survey by El Paso confirms this interpretation. Sample WR245 of vuggy quartz-carbonate vein float uphill from the trench contains no significant metal values. Samples WR253 - 255 are from quartz vein stockworks in grey phyllites exposed on the Bolean Lake road. Metal values are at background levels.

The Trinity property, located 12 kilometers north of Lumby is underlain by graphitic black argillite - siltstone (probable Nicola Group) and quartz-sericite-pyrite schist and foliated biotite granodiorite of unknown affinity. Eight samples of granodiorite and schist (samples 1-8) collected by Stinson and three samples WR 256-268 collected by the author contain no significant metal values. An outcrop of quartz-sericite-pyrite schist with greater than 10% pyrite located on the highway at Trinity Valley also contained no significant values (WR 259). Pyritic tuffaceous schist on the highway 12 kilometers north of Trinity Valley (WR 260, 261) also contains only background metal values.

Analytical results are not encouraging and I can see no real potential in these properties for significant precious metal discoveries. The Nicola equivalent host rocks are, however, geologically favourable and a number of precious metal occurrences are located in the Vernon area. Continued support of Stinson and his associates in the form of assaying assistance could prove to be rewarding in the future.



November 10, 1987

C.J. Westerman





(VALUES IN PPM)	AG	AS	CU	MO	PB	ZN	AU-PPB
87NR 240	1.9	20	57	6	33	203	4
87NR 241	3.1	46	109	11	68	384	32
87NR 242	2.3	62	11	1	39	17	5
87NR 243	1.0	27	50	5	21	90	12
87NR 244	2.3	6	154	1	32	70	24
87NR 245	1.1	16	8	1	18	12	9
87NR 246	3.1	122	14322	1	40	220	13
87NR 247	3.3	88	6877	1	24	259	12
87NR 248	3.9	33	4284	3	14	160	54
87NR 249	.7	1	135	2	19	89	4
87NR 250	.7	34	251	1	19	95	13
87NR 251	5.1	38	8400	2	23	217	112
87NR 252	5.9	11	11818	9	34	123	125
87NR 253	.3	1	132	1	10	44	6
87NR 254	.3	2	105	1	11	22	8
87NR 255	.2	2	21	2	8	15	2
87NR 256	1.0	17	99	12	34	211	4
87NR 257	.7	6	79	8	28	174	7
87NR 258	.9	1	31	1	14	52	7
87NR 259	2.4	8	147	2	45	73	4
87NR 260	2.8	48	66	3	28	145	3
87NR 261	2.3	8	85	1	24	78	8

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(VALUES IN PPM)	AG	AS	CU	PB	SR	ZN	AU-PPB
1	.3	3	61	52	2	27	2
2	.3	9	77	33	3	13	4
3	1.3	2	172	31	4	102	2
4	.5	12	87	27	3	32	2
5	1.0	20	83	24	3	42	3
6	1.4	16	178	30	4	65	4
7	.9	26	45	50	2	77	2
9	1.9	34	31	43	3	53	2