



To: Dr. W. J. McMillan
Senior Geologist

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Our File:

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Re: Notes on Address to M.E.G. Feb. 25th by
A.F. Reeve on the Black Dome Mountain
Au-Ag Prospect

The following are the salient points of the address:

1. The Black Dome Au-Ag prospect is only one of many notable local mineral occurrences in the repertoire of Bert Reeves - others include the Harper Creek, Robb Lake, Godden Creek, and the Vena River deposits.
2. Since Barrier Reef Ltd. first began exploration in area in 1977 there have been 106 diamond drill hole tests totalling 28,500 feet.
3. The principal mineralization is hosted in what is believed to be gently dipping Eocene andesite (200 m thick) and rhyolite (70 m thick) beds, capped by Oligocene basalt and underlain by Kingsvale-type volcanics.
4. The target of exploration is a mile long fissure vein system striking northeasterly.
5. The upper profile of the vein, mainly in the hornblende andesite unit, is sharp walled and vuggy with much cocks comb quartz filling.
6. The lower profile of the vein is mainly in the rhyolite where silicification of the wall rock locally extends for tens of feet laterally due to replacement.
7. Gange on the fault locally controls the ore.
8. Jasper and carbonates may accompany the milk quartz, pyrite is scarce, fine tetrahedrite locally coats breccia fragments, and free grains of gold are rarely viewed.
9. Calculations indicate that the first development level will contain approx. 300,000 tons grading 1/3 oz. gold and 3 oz. silver. Peripherally there is another 145,000 tons grading 1/2 oz. gold and 3 oz. silver.
10. Geochemical response over the mineralized zone is variable, ranging in the soils from several hundred ppb gold to zero. Silver generally gives a poor response in the soils.


B. N. Church
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