

THE DEMER & KEYS SCHEELITE DEPOSIT IN THE SOUTHERN PART
OF THE BIG HORN MOUNTAINS, WASHAKIE COUNTY, WYO.

Location

The deposit visited is located in the NW $\frac{1}{4}$, SW $\frac{1}{4}$, Sec. 24, T.41 N., R. 87 W. on the headwaters of the Middle Fork of the Powder River. The claim may be reached by car from Armino, the nearest railroad point, by following a dirt road, marked "To The Bighorn Mountains," for approximately thirty miles to the Demer & Keys Sheep Camp. Beyond this point it is necessary to travel approximately two miles by jeep to the claims.

The claimants are B.J. Keys and Z.D. Demer of Worland, Wyoming. The property is owned by Z.D. Demer, Worland.

Geology and Mineralization

The scheelite occurs as small pods and lenses (varying from microscopic size to as large as 1 $\frac{1}{2}$ inches in diameter) disseminated in a massive quartz vein which strikes N. 75° W. and dips 70° NE. The footwall of the vein, which is essentially quartz-biotite schist containing small veins of quartz is devoid of tungsten mineralization.

The schist, which is the predominant rock in the area, and the scheelite-quartz vein are assumed to be pre-Cambrian in age.

The operators have a 2 foot by 5 foot portion of the vein exposed in a small pit which is 25 feet long, 6 feet wide, and 12 feet deep.

Since the property was examined by the writer in the daylight, the use of the mineralight was severely curtailed. The mineralization appears to be fairly consistant along the strike of the uncovered vein, but it shows signs of "pinching out" at depth.

The operators report that the results of two assays of the scheelite, by different assayers, to be approximately 15% WO_3 . These were not representative assays, and it is this writers opinion that representative assays will be considerably less.

The writer recommended that the operators conduct a close examination along the strike of the scheelite-quartz vein and also extend their operations further down the dip of the vein. A more representative sampling for future assays was also advised.

The operators also report similar scheelite-quartz outcrops within a two mile radius of their present claim. These were not examined by the writer.

Signed,
William H. Wilson
William H. Wilson
Assistant State Geologist
Geological Survey of Wyoming
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