

surveying operations in those left. Part of our course led up a raise whose vertical angle averaged about 59 degrees, just about the limit of sight through our instruments. Add to the difficulty of setting up the futher circumstance that the draft was a miniature gale down the raise so that the candles had to be held upside down most of the time to persuade them to burn at all and you have some idea of the ease and comfort and lack of profanity that characterizes some mine surveying.

The weather was persistently cloudy and cold with frequent showers. Solar observations were out of the question, also star observations. The bulky volume of the Ephemeris we had lugged along was utterly useless. The only thing approaching a night observation was one taken by a member of the party who was inclined to somnambulism. We found him in brief attire trying to focus on the light on the crusher house. It is necessary to add, perhaps, that he was one of those sort of people who sleep with one eye open.

All in all the trip was pre-eminently successful and it would not be right to close without paying some tribute to the excellent cooking which regaled us during our stay. If we have left with the people of Black Butte an impression half as pleasant as that we carried away, then indeed may the trip be voted fortunate.

Walter M. Eaton, Mining, '09.

