LIVINGSTON RESERVOIR SITE, CROOK COUNTY

Location: - Sec. 9, T. 49 N., R. 62 W., on Inyan Kara Creek.

Date Examined: - May 24, 1956.

Storage: - 974 acre-feet. Dam 53 feet high.

Geology

The rocks cropping out at the damsite are limestone and shale of the Minnekahta and Opeche formations of Permian age. A short distance upstream, on the south side of the proposed reservoir, is a 100-foot, almost vertical, exposure of red shale and gypsum of the Triassic Spearfish formation.

The rock cropping out at the abutments consists of a light pinkish-gray, hard, finely crystalline limestone that strikes N. 55° W., and dips (upstream) 30° SE. One major joint set is exposed here with N. 85° W. strike and 82° N. dip.

With the exception of some sloughing off from the Spearfish bluff (mentioned above) which would be caused by wave action and resultant silting in of the reservoir, the writer considers the proposed project satisfactory and structurally suitable.

William H. Wilson Ass't. State Geologist February 21, 1957