

Larry Martin
NPS-WRD
March 2004

We do not have driller's logs or construction reports for any of the wells at Amistad National Recreation Area. The following information was obtained from our files in Fort Collins.

Pecos River Well

The following information was obtained from an internal National Park Service report by Paul Christensen, dated January 16, 1981.

The well is 625 feet deep. Casing (6-5/8" OD) was cemented in the upper part of the well to a depth of 151.5 feet. The remainder of the well, from 151.5 to 625 feet is uncased. From 151.5 to 625 feet the well has a diameter of 5 inches.

The well obtains most of its water from solution cavities and fractures in the Devils River Limestone. The main water bearing zone is from 595 to 625 feet below ground surface. Several minor water bearing zones (less than 5 gpm) occur at shallower depths (230, 325, 410, 430 feet).

Static water level in the well was approximately 153.5 feet below the top of casing at the time the well was constructed, June 9, 1980.

Diablo East Well

This well is also called "McNamara Well No. 2" in our files. The well is either 480 or 490 feet deep; both numbers are indicated in our files.

The well is reported to have 10 feet of 8-inch casing at the surface. The remainder of the well, from 10 to 480 feet was drilled with a 7½" bit on a rotary drilling rig. The well was drilled by a firm named McNamara-Leavel and was used to furnish water for the grouting operations associated with construction of the dam.

Rough Canyon Well

An 8-inch borehole was drilled to 150 feet and 5½" ID casing was cemented in place. The well was completed by drilling a 5-inch borehole to 300 feet.

Water was encountered at 60 and 100 feet. After cementing, the borehole was dry until a depth of 180 feet where there was a small crevice in the limestone. Additional small water bearing crevice was encountered at 200 feet. A larger crevice was encountered at 240 feet. A "honeycomb" type limestone produced 30 to 70 gpm. Flow was very strong and cold, indicative of spring water.

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The following well log was compiled by Ed Reed, consulting geologist.

<u>Interval, feet</u>	<u>Description</u>
0-30	90% limestone; white chalky to fine crystalline, 10% tan bentonitic clay
30-50	100% limestone; white to cream chalky to VFX trace white bentonitic clay
50-100	Same as above
100-150	Missing
150-160	95% gray VFX limestone w/streaks of calcite, 5% tan bentonitic clay
160-180	100% tan VFX flaky limestone
180-200	100% tan to light gray VFX flaky limestone
200-220	100% light gray soft chalky to VFX limestone
220-250	100% tan VFX to chalky to flaky limestone
250-300	100% tan-light gray chalky to VFX & flaky limestone.

Entire interval (0-300 feet) is in the Salmon Peak Limestone.

Headquarters Well

We have no information for this well.