

DOMESTIC

IRRIGATION

INDUSTRIAL



Willamette Drilling Company, Inc.

Well Drilling Contractors

7365 O'Neil Rd. N.E.
SALEM, OREGON 97303

Phone 393-1757

June 8, 1981



At owners request we are providing additional details explaining more accurately what we did to the well.

NOTES:

#1 A 10 inch seal pipe was installed to a total depth of 58'8". This was done to hold open seal hole during placement of cement grout. The outside diameter of the seal pipe was 10.750 inches, at the bottom was a drive shoe with a diameter of nearly 12 inches. During installation of this seal pipe, the pipe fell on its own accord at roughly 47 feet for a distance of approximately 1½ to 2 ft. The seal pipe fell again at approximately 52 feet for a distance of approximately 1 to 1½ feet. The seal pipe could not be driven any further than 58'8". The pipe was removed as the grout was placed in sealing annulus.

#2 The accuracy of the well log from 70 feet on down is poor due to the diameter of the old borehole and new borehole being the same. There was some problems with alignment in the old borehole so that the new well may be oblong and may have a diameter slightly larger than the old well. Due to these problems and unstable broken rock starting at 75 feet, a neoprene packer was placed at 102 feet.

#3 Unusable water was determined to be present before reconstruction was started from tests that was previously performed. The depth of strata is only approximate since water was being produced from the existing borehole. This flow of water made determination of where water first occurred nearly impossible.

#4 During the drilling of the seal bore from 58 feet to 70 feet the returning water recovered during the drilling process changed color from a light brown color to a light gray color, however some brown clayish materials were present as these materials were filling the old borehole and were being removed during the redrilling process

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