

LOCATION: 100-A-182

HYDRAULIC CONDITIONS: Apparent Water Table

PERTINENT OBSERVATIONS: Drilled to 156', blew bulk of drilling fluid from borehole, allowed to recover 30 minutes. Borehole did not yield any water, therefore, alluvium is unsaturated (contact with bedrock is at 87') and bedrock is dry to 156'. No water accumulated in the borehole when drill pipe was added to the drill string at 176'. Water was first detected during drilling at 180'. The drilling fluid did not thin, but the gauges registered an increase in pressure at this depth. The borehole produced approximately 3 to 5 gpm when jetted at a total depth of 196' and continued to produce similar amounts when drilled to a total depth of 215'. Static water level was measured at 171.10' (below top of surface casing) after approximately 19 hours of recovery. This same level was recorded after another 65 hours of recovery.

Water table conditions are presumed present because the static water level is very close to the depth at which water was first detected (less than 9' difference). No water was detected while making a connection to the drill string at 176', but the amount of time that the air pressure was turned off was very short (2 minutes). Furthermore, only 5' of the aquifer was exposed at this time, and this portion of the aquifer may not be very transmissive.