



Oregon

Theodore R. Kulongoski, Governor

Department of Geology & Mineral Industries
Mineral Land Regulation and Reclamation
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June 20, 2005

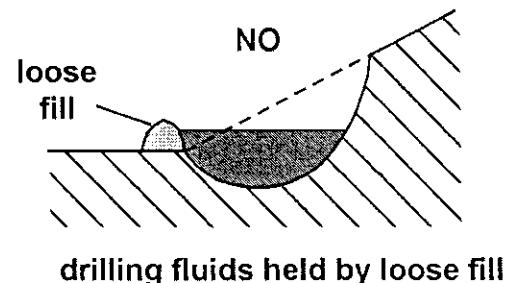
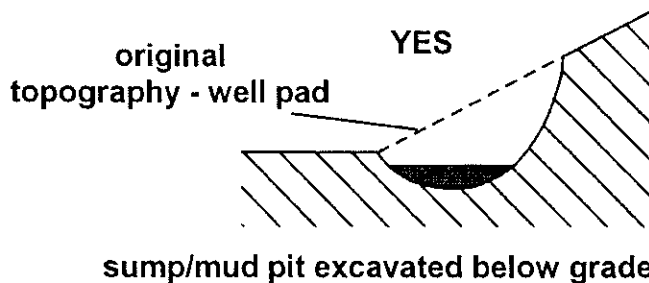
Northwest Natural
220 NW 2nd Avenue
Portland OR 97209

Permit to Drill Gas Well

The application to drill a gas well, IW 32DC-10-65, located in Section 10, Township 6N, Range 5W, Columbia County, Mist Storage, DOGAMI ID No. 545, API No. 36-009-00363, has been approved with the following conditions:

The permittee shall:

1. Construct all sumps/mud pits by excavating below grade with a design and size for holding the drill cuttings and fluid removed from the well. Loose fill material will not be allowed to be used in the construction of the sumps/mud pits for the purposes of water retention.



2. Contact DOGAMI two weeks prior to spud.
3. Provide DOGAMI with a 2-week, a 3 day, and a 24-hour notice to schedule an inspection to witness all BOPE tests conducted prior to drilling out each casing shoe.
4. Per 632-010-0014(C) & (D), the BOPE shall be pressure tested: when installed, prior to drilling out casing shoes, following repairs or reassembly of the preventers that require disconnection a pressure seal in the assembly, and shall be actuated to test proper functioning once each trip or once each week, whichever is more frequent.

Issued on June 21, 2005

by Bob Houston
for
Bob Houston
Petroleum - Geothermal Geologist
Natural Resource Specialist
Mineral Land Regulation and Reclamation

c: Columbia County