



Oregon

Theodore R. Kulongoski, Governor

Department of Geology & Mineral Industries

Mineral Land Regulation and Reclamation

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July 8, 2005

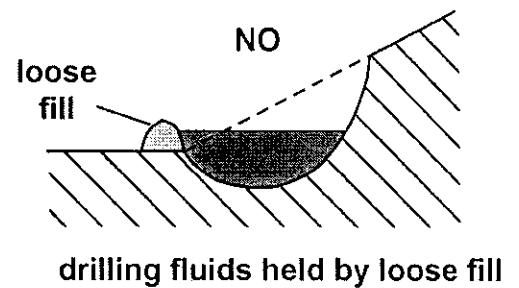
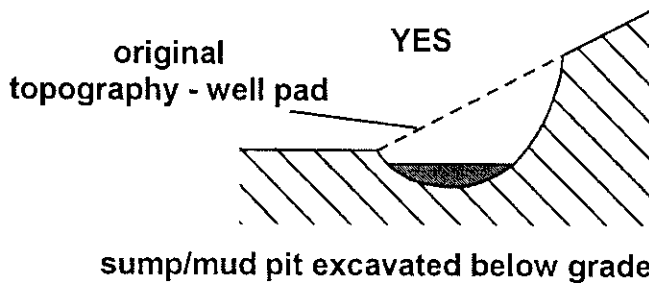
Northwest Natural
220 NW 2nd Avenue
Portland OR 97209

Permit to Drill Gas Well

The application to drill a gas well, OM 23C-11-65, located in Section 11, Township 6N, Range 5W, Columbia County, Mist Storage, DOGAMI ID No. 543, API No. 36-009-00361, 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 7/8, 2005

by Bob Houston

Bob Houston
Petroleum - Geothermal Geologist
Natural Resource Specialist
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c: Columbia County