



Oregon

Theodore R. Kulongoski, Governor

Department of Geology & Mineral Industries

Mineral Land Regulation and Reclamation

229 Broadalbin Street SW

Albany, OR 97321-2246

(541) 967-2039

FAX: (541) 967-2075

www.oregongeology.com

March 19, 2007

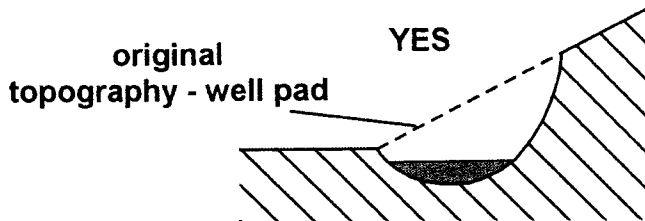
NW Natural
220 NW Second Avenue
Portland OR 97209

Permit to Drill Gas Well

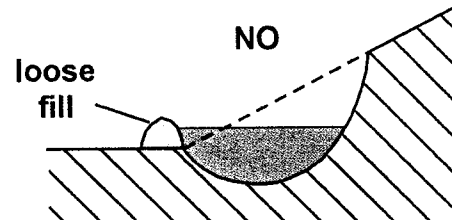
The application to drill a gas well, NWN 44-03-65 (formerly CC 44-03-65), located in Section 3, Township 6N, Range 5W, Columbia County, Mist Gas Field, DOGAMI ID No. 582, API No. 36-009-00366, has been approved with the following conditions:

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.



sump/mud pit excavated below grade



drilling fluids held by loose fill

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 March 19, 2007

by Robert A. Houston
Gary W. Lynch
Assistant Director
Department of Geology

c: Columbia County