

APPLICATION FOR PERMIT TO DRILL AN OIL OR GAS WELL

(To be accompanied by a \$100 permit fee, a surety bond conditioned as provided by law, and evidence of mineral rights ownership or lease.) This application becomes a permit to drill when signed and dated by DOGAMI in box below.

In compliance with rules and regulations pursuant to ORS 520, application is hereby made for permit to drill

(a gas well) to be known as Northwest Natural Gas Company NNG IW23d-3
 (an oil well) (Company or operator) (Lease) (Well No.)

in SW 1/4 of Sec. 3, T. 6N, R. 5W W.B.&M. Directional? No Yes X
 Survey Coordinates: 800' South and 2500' East from the west 1/4 corner (bottom hole location)

Wildcat: _____ (or) Field Name: Mist Underground Storage County: Columbia
 Elevation of ground above sea level is 1100 feet. All depth measurements are taken from _____
Kelly Bushing, which is 11.4 feet above ground.

Lessor (Mineral Owner): Northwest Natural Gas Company 222
 Address: 220 N.W. Second Avenue, Portland, OR 97209
 Surface Owner: Longview Fibre Company 287
 Address: P.O. Box 667, Longview, WA 98630
 Lessee: Northwest Natural Gas Company 222
 Address: 220 N.W. Second Avenue, Portland, OR 97209

We propose to use the following strings of casing and to land or cement them as herein indicated:

Size of hole	Size of casing	Weight in pounds per foot	Grade/Type	Depth	Amount of cement
17 1/2"	13 3/8"	54.5	K-55	450'	545 SX
12 1/4"	8 5/8"	36.0	K-55	2700'	1200 SX

Geologic Objectives Clark & Wilson Sand

Proposed Depth 3000' TVD

Company/Operator Oregon Natural Gas Development 229

Signature Todd Thomas

Position Senior Operations Superintendent

Date 8/3/90

SEND WELL COMMUNICATION TO:

Name Todd A. Thomas

Address 221 N.W. Second Ave.

Portland, OR 97209

Phone 220-2573 (Day) 359-4956 (Night)

DOGAMI Approved August 29, 19 90
 This well is permitted as a gas injection-well with withdrawal service well, and is not permitted as an exploratory production well. The July 1987 stipulations approved by the State Geologist are conditions of this permit. Notify DOGAMI to witness BOP test.
 By Dennis L. Olmstead
Dennis L. Olmstead, Petroleum Engineer

NOTE: (1) Issuance of this permit is not a finding of compliance with the Statewide Planning Goals or the acknowledged comprehensive plan. (2) Permit expires one year from date of issue. (3) Land use approval must be obtained from the county or city in which the drilling takes place. (4) Unless specifically exempted, permittee is obligated to comply with all current applicable statutes and rules including those adopted after permit issuance.