

STATE OF OREGON
 DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
 800 NE Oregon Street #28, Portland OR 97232

O&G Permit #:
 529

APPLICATION FOR PERMIT TO DRILL AN OIL OR GAS WELL

API#:
 36-009-00347
 352

(To be accompanied by a \$250 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) (an oil well) to be known

as: OM ~~13-23-65~~ 43A-22-65

NW Natural Northwest Natural Gas Company

OM ~~13-23-65~~

(Company or Operator)

(Lease)

(Well No.)

Sec. 22 T. 6N R. 5W Surveyed Coordinates (if directional, BHL & SHL):

310' W + 2,034' N From

SHL: ~~500' S & 200' West from the West 1/4 corner Sec. 23, T6N, R5W~~

BHL: same as surface SE 1/4 Sec 22

22' W + 2,442' N From SE 1/4 Sec 22 T 6N, R. 5 W

T. 6N, R. 5, W.

Wildcat: (or) Field Name: Calvin Creek-Reichhold Pool

County: Columbia

Elevation of ground above sea level: 875 feet.

All depth measurements are taken from Kelly Bushing which is 9' above ground.

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

We propose to use the following strings of casings 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
9-7/8"	7"	23#	K-55	400 feet	140 sx
6-1/4"	4-1/2"	10.5#	J-55	2300 feet	260 sx

Geologic Objectives: Clark and Wilson Sand
 Proposed Depth: 2270' MD

Company/Operator: NW Natural

DOGAMI approved (date) 3/9/00
 Provide 24-hr. notice to witnesses
 before test
 by: *Don E. ...* DOGAMI

Signature: *Todd A. Thomas*

Position: Storage Development Engineer

Date: 3/14/2000

SEND WELL COMMUNICATION TO:

Name: Todd A. Thomas

Address: 220 Northwest 2nd Ave.
 Portland, OR 97209

Phone:(day) 503/226-4211 ext. 4686 (night) 503/848-2947

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