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

API#:

APPLICATION FOR PERMIT TO DRILL AN OIL OR GAS WELL

36-009-00328

(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: IW 22H-22-65

as: IW 22H-22-65

NW Natural Northwest Natural Gas Company IW 22d H-22-65

(Company or Operator) (Lease) (Well No.)

Sec. 22 T. 6N R. 5W Surveyed Coordinates (if directional, BHL & SHL): BHL: 2240' South & 250' West of the N 1/4 corner, sec. 22; T6N; R5W SHL: 2290' North & 1910' East of the SW corner Sec. 22; T6N; R5W

Wildcat: (or) Field Name: Calvin Creek-Al's Pool County: Columbia

Elevation of ground above sea level: 581 feet.

Which is 16 feet

All depth measurements are taken from Kelly Bushing above ground.

Lessor (Mineral Owner): Longview Fibre Co.

Address: P. O. Box 667 Longview, WA 98630

Surface Owner: Longview Fibre Co.

Address: P. O. Box 667 Longview, WA 98630

Lessee: Northwest Natural Gas Company

Address: 220 Northwest Second Ave. Portland, OR 97209

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

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Size of hole	Size of Casing	Weight in	Grade/Type	Depth	Amount of
		pounds per foot			Cement
17-1/2"	13-3/8"	54.50#	H-40	350 feet	250 sx
12-1/4"	8 5/8"	32#	J-55	1800 feet	775 sx

Geologic Objectives: Clark and Wilson Sand Proposed Depth: 2800' MD 1375' TVD

Company/Operator: NW Natural

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DOGAMI Portland

DOGAMI approved (date) 12/9/97

Notify DOGAMI 24 hours prior to BOP tests

by: Dewin 200ms Good\_

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

Signature Jodd a. Il ou

Position: Storage Development Engineer

Date: November 17, 1997

SEND WELL COMMUNICATION TO:

Name: Todd A. Thomas

Address: 220 Northwest 2<sup>nd</sup> Ave.

Portland, OR 97209

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

permitap.doc 11/17/97

