

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

MISCELLANEOUS APPLICATION
(In compliance with rules and regulations pursuant to ORS 520)

NW Natural (Company or Operator)	NW Natural (Lease)	IW 22H-22-65 (Well No.)
Sec. 22 T. 6N R. 5W	Surveyed Coordinates (if directional, BHL & SHL):	
Of the southwest corner of section 22; T6N; R5W	SHL: 2292' north & 1908' east	
Wildcat:	(or) Field Name: Mist (Calvin Creek Storage)	County: Columbia
		Signature: <u>Todd A. Thomas</u>
Date: <u>11/4/97</u>	Position: <u>Storage Development Engineer</u>	

Use this form for applications to deepen, rework, abandon, or any other proposed procedure on an existing well.

This form must be submitted unless verbal approval had been given. This application becomes a permit when signed and dated by DOGAMI in the box below.

The present condition of the well, including complete casing record, is as follows:

- 13 3/8" casing set at 322'
- 8 5/8" casing set at 1763'
- 1 ft @ 4 holes/ft of perforations at 1040'
- 1 ft @ 4 holes/ft of perforations at 540'
- Baker retrievable cementing packer and 4 jts of 4 1/2" drill pipe cemented inside the 8 5/8" casing at 498' - 624'
- Casing hole inside 8 5/8" casing at 498'

Following is a detailed account of proposed work:
See attached options I, II, IIA & III

Post-it® Fax Note	7671	Date	11-7-97	# of pages	3
To	TODD THOMAS	From	DENNIS OLMSTEAD		
Co./Dept.	NN	Co.	DOGAMI		
Phone #		Phone #	731-4100 x228		
Fax #	503.220.2595	Fax #			

TEST ANNULAR BOP WHEN
REINSTALLED.
CALL DOGAMI TO TAG KICKOFF
PLUG OR ABANDONMENT PLUG

DOGAMI approved (date) NOV 7, 1997

by: Dennis J Olmstead

Company/Operator: NW Natural
 Signature: Todd Thomas
 Position: Storage Development Engineer
 Date: November 4, 1997
 SEND WELL COMMUNICATION TO:
 Name: Todd Thomas
 Address: 220 Northwest 2nd Ave.
Portland, OR 97209
 Phone: day: (503)226-4211 x4686 night: (503)780-4880