

MISCELLANEOUS APPLICATION - OIL OR GAS WELL

STATE OF OREGON • DEPT OF GEOLOGY & MINERAL INDUSTRIES • 229 BROADALBIN ST SW • ALBANY OR 97321

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

**(1) Permittee Information**

Name	NW Natural Gas Company
Mailing Address	220 Northwest Second Ave.
City/State/Zip	Portland, OR 97209
Telephone	503-226-4211
Fax	503-220-2586
Email	Todd.thomas@nwnatural.com
Prepared by	Todd Thomas
On Site Contact	Ed Vader
Phone (day)	(780) 712-2986
Phone (night)	(780) 712-2986
Other	

**(2) Well Information**

Well Name	IW 33d-3-65
DOGAMI ID No.	36-009-00238

**(3) Proposed Work**

Deepen	<input type="checkbox"/>
Rework	<input checked="" type="checkbox"/>
Abandon	<input type="checkbox"/>
Other	<input type="checkbox"/>

FEB 22 2007

*Todd Thomas*  
Signature

*Project Manager*  
Title

*2/20/07*  
Date

**(4) Present Condition of Well**

Size of hole	Size of Casing	Weight in pounds per foot	Grade/Type	Depth	Cemented Interval	Perforations (number and depth)	Tubing detail (type and location)
17 1/2"	13 3/8"	54.5	K-55	570'	570 - surface	N/A	
12 1/4"	8 5/8"	32	K-55	2640'	2640' - surface		
15 "	5 1/2"	15.5	K-55	2683' - 2603'		liner	
	5 1/2"	17	K-55	2534' - surface			

**(5) Wellhead Pressure (psi)**

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**(6) Detailed account of proposed work. (For P&As, describe the abandonment and site reclamation plan.)**

Plug back and convert well to an underground gas storage observation well. See Attached.
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**(7) P&A Design**

Type of Cement	Cement Additives Type % by weight	Location of Plugs (Intervals)		Capacity of Plugging Interval		Volume of Cement		Excess Volume of Cement	
		ft.	ft.	bbls/ft.	bbls	bbls	bbls		
	% by weight		ft.		bbls/ft.		bbls		bbls
	% by weight		ft.		bbls/ft.		bbls		bbls
	% by weight		ft.		bbls/ft.		bbls		bbls
	% by weight		ft.		bbls/ft.		bbls		bbls