

SUMMARY REPORT - 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	Northwest Natural Gas Company
Mailing Address	220 Northwest Second Ave.
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Prepared by	Todd Thomas

(2) Well Information

Well No.	IW 24c-15-65
DOGAMI ID No.	O & G Permit #540
Drilling Commenced	October 28, 2004
Drilling Completed	November 19, 2004
Date P & A	
Total Depth	2359 ft M.D.
Redrill Depth	
Logs Run	Induction, Sonic, Gamma Ray, Neutron Density, EMI

Todd A. Glan
Signature

Project Manager
Title

March 4, 2005
Date

(3) Casing Record

Size of Hole	Size of Casing	Weight (pounds per foot)	Grade/Type	Depth	Type and Amount of Cement
17 1/2"	13 3/8"	54.5	J-55	442 ft	Class III Type C 82 bbls.
12 1/4"	9 5/8"	36.0	J-55	2030 ft	Halliburton Premium 154 bbls.
					bbls.
					bbls.

(4) Plugs & Junk

Plugs / Junk	Geological Marker	Depth
None	Keasey	1150' MD
	Cowlitz	1706' MD
	Clark & Wilson	2027' MD

(5) Perforations or Liner

Size of Casing	From	To	Shots/ft.	Method of Perforating		
				Jet	Bullet	Slotted Line
6 5/8"	1980 ft	2092 ft				Baker Excluder

(6) Initial Production

Date	Clean Oil (bbl/day)	Gravity	Percent Water	FTP	FCP	SITP	SICP