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.
City/State/Zip	Portland, OR 97209
Telephone	(503) 226-4211
Fax	(503) 220-2595
Email	Todd.Thomas@nwnatural.com
Prepared by	Todd Thomas

(2) Well Information

Well No.	IW 13b-23-65
DOGAMI ID No.	O & G Permit #539
Drilling Commenced	September 21, 2004
Drilling Completed	October 22, 2004
Date P & A	
Total Depth	2234 ft M.D.
Redrill Depth	
Logs Run	Induction, Sonic, Gamma Ray, Neutron Density, EMI

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Todd A. Thomas — Project Manager — March 4, 2005

Signature — *Title* — *Date*

(3) Casing Record

Size of Hole	Size of Casing	Weight (pounds per foot)	Grade/Type	Depth	Type and Amount of Cement	
17 ½"	13 3/8"	54.5	J-55	442 ft	Class III Type C	82 bbls.
12 ¼"	9 5/8"	36.0	J-55	1435 ft	Halliburton Premium	103 bbls.
12 ¼"	7 5/8"	26.4	K-55	1872 ft	Halliburton Premium	59 bbls.
						bbls.

(4) Plugs & Junk

Plugs / Junk	Geological Marker	Depth
None	Keasey	648' MD
	Cowlitz	1530' MD
	Clark & Wilson	1872' MD

(5) Perforations or Liner

Size of Casing	From	To	Shots/ft.	Method of Perforating		
				Jet	Bullet	Slotted Line
5 1/2"	1824 ft	2014 ft				Baker Excluder

(6) Initial Production

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

SUMMARY REPORT.DOC
Rev. 08/05/03

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Todd A. Thomas — Project Manager — March 4, 2005

Signature — *Title* — *Date*

(3) Daily Operations

Submit a complete history of the well. Include such information as: bit sizes, mud weights, casing sizes and depths set, amount of cement used, drilling depths, fishing, logging, perforating and plugging procedures, and anything else pertinent to the operation. Do not include lithology.

Date	Activities
	See attached

HISTORY - OIL OR GAS WELL.DOC
REV. 08/05/03