

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

WELL SUMMARY REPORT
(In compliance with rules and regulations pursuant to ORS 520)

Received 12/21/00

NW Natural Northwest Natural Gas IW 24C-23-65
(Company or Operator) (Lease) (Well No.)

Sec. 23 T. 6N R. 5W Surveyed Coordinates (if directional, BHL & SHL): SHL; 967.7' North & 1268.4' East from the SW corner of section 23, T6N; R5W, BHL; 561' S & 136' E from surface location

Wildcat: (or) Field Name: Calvin Creek Storage Field County: Columbia

Signature: *[Handwritten Signature]*

Date: 12/18/00

Position: Construction Manager

Commenced drilling: 4/20/00	Completed drilling: 5/13/00	P&A:
Total depth: MD 2591'	Redrill depth:	
Logs run: Array Induction, BHC Sonic, GR, SP, FMS, USI, CCL		

CASING RECORD

Size of hole	Size of casing	Wt. in lbs. per ft.	Grade Type	Depth	Amount of cement
17 1/2"	13 3/8"	54.5#/ft	H-40	445'	337 sx
12 1/4"	8 5/8"	32#/ft	K-55	1726'	670 sx

Plugs	Geological Marker	Depth
2591' - 1842'	Keasey	585' MD
	Cowlitz	1404' MD
Junk	Clark & Wilson	1725' MD

Perforations or Liner	Size of Casing	From	To	Shots/ft.	Method of Perforating		
					Jet	Bullet	Slotted Liner
	5 1/2"	1851'	1706'				X

Initial Production	Date	Clean Oil bbl/day	Gravity	Percent Water	F.T.P.	F.C.P.	S.I.T.P.	S.I.C.P.

2000