

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)

NW Natural Northwest Natural Gas IW 32H-22-65
(Company or Operator) (Lease) (Well No.)

Sec. 22 T. 6N R. 5W Surveyed Coordinates (if directional, BHL & SHL): SHL; N86°47'54"^W 2085.04' &
S03°12'06"E 1827.47' from the NE corner of section 22, T6N, R5W; BHL; 1078.63' S & 896.51' W from surface location

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

Signature: _____

Date: 2/23/98

Position: Storage Development Engineer

Commenced drilling: 11/18/97	Completed drilling: 12/6/97	P&A:
Total depth: MD 2600' TVD 1628'	Redrill depth:	
Logs run: DIL, GR, SP, FDCN, FMS, Sonic, CET		

	Size of hole	Size of casing	Wt. in lbs. per ft.	Grade Type	Depth	Amount of cement
CASING RECORD	17 1/2"	13 3/8"	48#/ft	H-40	377'	330 sx
	12 1/4"	8 5/8"	32#/ft	J-55	1802'	700 sx

	Geological Marker	Depth
Plugs	Keasey	1109' MD
	Cowlitz	1526' MD
Junk	Clark & Wilson	1808' MD

	Size of Casing	From	To	Shots/ft.	Method of Perforating		
					Jet	Bullet	Slotted Liner
Perforations or Liner	5 1/2"	2600'	1802'				X

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