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	OM 12-22-65
(Company or Operator)	(Lease)	(Well No.)

Sec. 22   T. 6N   R. 5W   Surveyed Coordinates (if directional, BHL & SHL):   SHL; S03°05'16"W 2267.48' &

S86°54'44"E 1224.03' from the NW corner of section 22, T6N, R5W; BHL; 110.97' N & 536.75' W from surface location

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

Signature: Jodd Thomas

Date: 2/5/98   Position: Storage Development Engineer

Commenced drilling: 8/25/97	Completed drilling: 9/11/97	P&A:
Total depth: MD 2337' TVD 2243'	Redrill depth:	
Logs run: DIL, GR, SP, FMS, FDCN, Sonic		

CASING RECORD

Size of hole	Size of casing	Wt. in lbs. per ft.	Grade Type	Depth	Amount of cement
12 ¼"	8 5/8"	24#/ft	J-55	343'	220 sx
7 7/8"	5 ½"	15.5#/ft	J-55	2300'	480 sx

Plugs   Cement Whipstock Plug @ 1484'

Junk   Bit, stablizer, 6 ¼" monel DC, stablizer,
2-6"Steel drill collars, 1 HWDP
130' of fish left in original hole @ 1586'

Geological Marker	Depth
Keasey	792' MD
Cowlitz	1256' MD
Clark & Wilson	1501' MD

Perforations or Liner

Size of Casing	From	To	Shots/ft.	Method of Perforating Jet	Bullet	Slotted Liner
5 ½"	1502'	1852'	1 shot/ft		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.

wellsumm.doc 2/11/98