

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 23a-22-65
(Company or Operator) (Lease) (Well No.)

Sec. 22 T. 6N R. 5W Surveyed Coordinates (if directional, BHL & SHL): SHL; N03°03'15"E 2280.65' & S86°56'45"E 1923.76' from the SW corner of section 22, T6N, R5W; BHL; 375.37' S & 730.41' E from surface location

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

Signature: *Yadd A. Glous*

Date: 2/10/98 Position: Storage Development Engineer

Commenced drilling: 9/19/97	Completed drilling: 10/9/97	P&A:
Total depth: MD 2298' TVD 2069'		Redrill depth:
Logs run: DIL, GR, SP, FMS, FDCN, Sonic, Caliper, EMT, 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	355'	269 sx
	12 1/4"	8 5/8"	32#/ft	J-55	1394'	460 sx

	Geological Marker	Depth
Plugs	Keasey	644' MD
	Cowlitz	1140' MD
Junk	Clark & Wilson	1394' MD

	Size of Casing	From	To	Shots/ft.	Method of Perforating		
					Jet	Bullet	Slotted Liner
Perforations or Liner	5 1/2"	1359'	1470'				X

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