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 22dH-22-65			
(Company or Operator)			(Lease)					(Well N	(Well No.)		
Sec. 22	T. 6N R.	R. 5W Surveyed Coordinates (if directional, BHL & SHL): SHL; N03°03'15"E 2286.41' &									
S86°56'45"E 1915.61' from the SW corner of section 22, T6N, R5W; BHL; 1264.37' N & 1189.94' E from surface location											
Wildcat: (or) Field Name: Calvin Creek Storage Field County: Columbia											
	Signature: odd (Slow x										
Date:	2/24/98 Position: Storage Development Engineer										
				pleted drilling: 1/27/98 P&A:							
Total depth: MD 2746' TVD 1370' Redrill depth:											
Logs run: DIL, GR, SP, FDCN, FMS, Sonic, CET											
	Size of Size of			1	Wt. in lbs.		Grade Type			Amount of	
	hole 17 ½"	1	casing 13 3/8"		per ft.			Depth		cement	
CASING	1 / 72	13 3	/8"	48#/ft		H-40		426	,	300 sx	
RECORD	12 1/4" 8 5/8"		3"	32#/ft		J-55		199	5'	810 sx	
											
											
				Geological Marker					Depth		
Plugs				Keasey Cowlitz					652' MD		
Junk				Clark & Wilson					2036' MD		
	· -										
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	G: 0				Me				thod of Perforating		
	Size of Casing	From	To		Shots/	ft	Jet		Bullet	Slotted Liner	
Perforations	5 1/2"	2740'	2020'			511015/11.		-	Danet	X	
or Liner										_	
Liner											
Clean Oil Percent F.T.P. F.C.P. S.I.T.P. S.I.C.P.											
4		Clean Oil bbl/day	Gravity	Percer Water	Percent Water			F.C.P.	S.I.T.P.	S.I.C.P.	
Initial						-					
Production		<u>L</u>	<u> </u>	1							

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