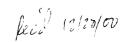
## STATE OF OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES 800 NE Oregon Street #28, Portland OR 97232



## WELL SUMMARY REPORT

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

NW Natural		Northwest Natural Gas							OM 43a-22-65						
(Company or Operator)			(Lease)						(Wel	(Well No.)					
	C. 6N R. :	Coordinates (if directional, BHL & SHL): W; BHL; 260' S & 99' W from surface loca						SHL; 2441.8' North &							
122.2' W from	the SE corner of	of sectio	on 22, 16	N, R5	W; BHL;	260 8 8	& 99' W	from suri	ace 10	cation at	a me	asured depth (	31 13 /	8	
Wildcat: (or) Field					Name: Calvin Creek Storage Field County: Columbia									<del></del>	
							Sign	ature:	1-0	Da.	7	low	/		
									-			<del></del>			
Date: 12/18/00 Position: Construction Manager															
Commonadd	willing: 5/24/00			Comple	stad drilli	na: 6/5/	00		P&	- Δ ·				<del></del>	
Commenced drilling: 5/24/00 Total depth: MD 2317'			Completed drilling: 6/5/00 P&A  Redrill depth:							.A.					
	ay Induction, Bl	HC Soni													
	Size of		Size o	·t		Wt. in lb		Grade					A m	ount of	
	hole		casing		per ft.		Type		I		Depth	epth		Amount of cement	
	12 1/4"		8 5/8"		32#/ft			H-40		444'			180	sx	
CASING RECORD	7 7/8"		5 1/2"		15.5#/ft		J-55		2318		2318		330	SX	
RECORD	1 110		J 1/4			13.31111		333					550		
		·													
						-21-99									
					<u>l</u>							. <del></del>			
					Geological Marker							Depth			
Plugs					Keasey							685' MD			
				Cowlitz							1323' MD				
Junk				Clark & Wilson 1575' MD											
			,					<del></del>							
							1		1	Method o	of 1	Perforating			
	Size of								Wichlod of		71	Terrorating			
	Casing		From		То		Shots/:		Jet		Bi		S	lotted Liner	
Perforations or	5 ½"		1578' 1625'		1615' 1706'		1 shot/ft		X						
Liner			1768'		1816'										
			1822'		1832'										
			338' 718		1875'										
		Clean	Clean Oil			Percen		F.T.P.		F.C.P.		S.I.T.P.		S.I.C.P.	
Initial	Date	bbl/da	ıy	Grav	ity	Water									