

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

rec'd 12/28/00

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

NW Natural Northwest Natural Gas IW 24bH-23-65
(Company or Operator) (Lease) (Well No.)

Sec. 23 T. 6N R. 5W Surveyed Coordinates (if directional, BHL & SHL): SHL; 976.5' North & 1256.3' East from the SW corner of section 23, T6N; R5W, BHL; 313' S & 543' E from surface location

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

Signature: *[Handwritten Signature]*

Date: 12/18/00 Position: Construction Manager

Commenced drilling: 6/8/00	Completed drilling: 6/25/00	P&A:
Total depth: MD 2770'	Redrill depth:	
Logs run: Array Induction, BHC Sonic, GR, SP, FMS, USI, CCL		

CASING RECORD	Size of hole	Size of casing	Wt. in lbs. per ft.	Grade Type	Depth	Amount of cement
	17 1/2"	13 3/8"	54.5#/ft	H-40	429'	320 sx
	12 1/4"	8 5/8"	32#/ft	K-55	1870'	650 sx

	Geological Marker	Depth
Plugs	Keasey	596' MD
	Cowlitz	1286' MD
Junk	Clark & Wilson	1866' MD

Perforations or Liner	Size of Casing	From	To	Shots/ft.	Method of Perforating		
					Jet	Bullet	Slotted Liner
	5 1/2"	1851'	2758'				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.