

STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
910 State Office Building Portland, OR 97201

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

Northwest Natural Gas Co. Northwest Natural Gas Co. IW 32c-10
(Company or Operator) (Lease) (Well No.)

Sec. 10 T: 6N R: 5W Surveyed Coordinate (if directional, BHL & SHL): SHL= 2520' W & 500' N from the SE corner Sec 10; T6N; R5W--BHL=256' S & 9'E of SHL @ 2090' MD

Wildcat: _____ (or Field Name): Mist Storage County: Columbia
Signature: *John A. Thomas*
Date: 5-Mar-91 Position: Senior Operations Superintendent

Commenced drilling: 12/10/90 Completed drilling: 12/28/90 P & A: no
Total depth: 2749' Redrill depth: _____
Log runs: 2 runs-DIL, SFL, GR Neutron Denstiy, Dipmeter--1 run-Vertilog, Photon

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#	K-55	531'
	12 1/4"	8 5/8"	32#	K-55	2100'	972 sx

	Geological Marker	Depth
Plugs	cement f/2400'-2179'	Clark & Wilson Sand 2100'
Junk	NONE	

Perforations or Liner	Size of Casing	From	To	Shot/ft	Method of Perforating		
					Jet	Bullet	Slotted Liner
	5 1/2"	2179'	2047'			YES	

Initial Production	Date	Clean Oil bbl/day	Gravity	Percent Water	FTP FCP	SITP SICP

1990