

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 13b-11  
(Company or Operator)      (Lease)      (Well No.)

Sec. 11      T6N      5W      Surveyed Coordinate (if directional, BHL & SHL):  
Surface: 272' N & 344' E from the West 1/4 corner Sec. 11, T6N; R5W BHL: 368'S & 101' W at 2214'

Wilcat: \_\_\_\_\_ (or Field Name): Mist Storage      County: Columbia

Date: 1/16/92      Signature: [Signature]      Position: Senior Operations Superintendent

Commenced drilling: 9/18/91      Completed drilling: 9/28/91      P & A: no

Total depth: 2905' MD      Redrill depth: \_\_\_\_\_

Log runs: DIL, Sonic, Gamma Ray, Neutron Density, Dipmeter, Photon, 4-Arm Caliper, Vertilog

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	530'	485 sx
12 1/4"	8 5/8"	32	K-55	2210'	665 sx

Plugs	Geological Marker(s)		Depth
	cement f/ 2619'-2335'	Clark & Wilson	2210'
Junk	N/A		

Perforations or Liner

Size of Casing	From	To	Shot/ft	Method of Perforating		
				Jet	Bullet	Slotted Line
5 1/2"	2333'	2166'				XX

Initial Production

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