



The Oregon Department of Geology and Mineral Industries
 STATE OF OREGON
 DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
 800 NE Oregon St # 28 Portland, OR 97232

RECEIVED
 NOV 20 2002
 Mined Land Reclamation

HISTORY OF OIL OR GAS WELL
 (In compliance with rules and regulations pursuant to ORS 520)

OM43A.22.65

(Company or Operator) Northwest Natural Gas Company (Lease) NW Natural Gas Co (Well No.) 43 A-22-65

Sec. 22, T6N-R5W Surveyed Coordinates-SHL:2441.8' North & 122.2' W from the SE corner of section 22, T6N-R5W; BHL: 260' S & 99 W from surface location at a measured depth of 1578'

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

Signature: [Signature]

Date: 11/19/02

Position: Project Manager

Use this form in reporting the daily operations at the well. (Operator may use his own forms, but heading of this form must also be completed and submitted.) Please submit a complete history of the well. Include such information as bit sizes, mud weights, casing sizes and depths set, amount of cement used, drilling depths, fishing, logging, perforating, and plugging procedures, and anything else pertinent to the operation. Do not include lithology.

August 27, 2002

Move on and rig up Taylor W.O. Rig number 1 to convert observation well to I/W well. Kill well with produced water. Pumped water at 3 BPM. SICP250 PSI. Bleed down well. Well is flowing gas cut water. Pumped more salt water into well bore at 5 BPM. Shut well in for 15 minutes - SICP 0 PSI.

Removed existing wellhead and installed tubing spool, 9" x 3000 PSI / 7 1/16" x 3000 PSI. Install BOPE, function test and test wellhead connection to 1000 PSI. Secure well and equipment and shut down for night.

August 28, 2002

Pressure test BOPE with DOGAMI rep on site. Tested to 800 PSI. Strap tubing (2 7/8" J-55 EUE). Rig in floor to pick up tubing. Drift tubing and strap in hole with 4.75" bit and scraper. Tagged up at 2235' K.B. Rig up to circulate. Clean out well bore to 2270'. Circulate hole clean. Trip out of hole lay down excess tubing, bit and scraper. Stand back 1500' tubing in derrick. Secure well and equipment and shut down for night.

August 29, 2002

Daily walk around. Held safety and procedures meeting. Well on slight vacuum - fill hole with 6 barrels water. Rig in Halliburton cased hole truck. Run TMD log as per program. Run and set 5.5" easy drill 10 K bridge plug at 1621' K.B. Re-perf hole section from 1615' to 1578' K.B. Make up packer and tail pipe. Trip in hole with packer to 1500' K.B. Secure well and rig. Shut down for night.

August 30, 2002

Daily walk around and safety and procedures meeting. Mix 50 barrels inhibited fresh water. Pump and spot water in casing annulus.

Set packer at 1503.63' K.B. with full string weight. Test packer, tubing, casing annulus and seals to 800 PSI. Hold pressure for 15 minutes. Rig down floor, remove BOP and nipple up wellhead. Rig to swab and swab in well. Flow well to clean. Tear out rig and prepare to move it to next location.

Well schematic is attached.

