

HISTORY OF OIL OR GAS WELL

(Submit in duplicate)

In compliance with rules and regulations adopted pursuant to ORS 520.095 (Chapter 667 OL 1953)

Operator Reserve Oil and Gas Company Field Golden Valley Area
Well No. "Esmond" No. 1 , Sec. 7 , T. 12S R. 1W W.B. & M.
Signed *J.V. Mangold*
Date September 12, 1962 Title Manager-Field Operations
(President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form in reporting the history of all important operations at the well, together with the dates thereof, prior to the first production. Include in your report such information as size of hole drilled to cementing or landing depth of casings, number of sacks of cement used in the plugging, number of sacks or number of feet of cement drilled out of casing, depth at which cement plugs started, and depth at which hard cement encountered. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

May-1962
23 R. B. Montgomery, Drilling Contractor, moved in and rigged up the following portable rotary drilling equipment - A 126' Ideco Cantilever mast; National 75 Double drum drawworks with two GMC 6-71 twin Diesels, 600 HP; One National C-350 7-3/4" X 18" pump with two GMC 6-71 twin Diesels, 600 HP; One National C-250 7-1/4" X 15" pump with one GMC 6-71 twin Diesel, 300 HP; and 4-1/2" Reed IF 18.10#, Range 2, Grade E drill pipe.
25 Cemented 20' of 20" conductor pipe. Spudded in at 10:00 PM. Drilled to 250' with one 15-1/2" bit.
26 Lost circulation at 192', mixed sawdust and gel, regained circulation. Lost circulation at 248', mixed sawdust and gel, regained circulation.
27 Hung open end 4-1/2" drill pipe at 249'. Mixed and pumped in 20 sacks Permanente construction cement treated with 3% CaCl₂. Let stand 4 hours.
28 Drilled 15" hole to 493'. Lost circulation. Hung open end drill pipe at 492', mixed and pumped in 20 sacks construction cement with 3% gel. Let stand 4 hours. Ran in found cement at 485'. Circulated with no returns. Hung drill pipe and pumped in 10 sacks of construction cement at 485', 246' and 186'.
29 Found top of cement at 473', drilled out cement and drilled 15" hole to 513'.
30 Drilled 9-7/8" hole to 555'. Hung drill pipe at 180', mixed and pumped in 25 sacks construction cement. Drilled to 1041' with three 9-7/8" bits.
June-1962
2 Opened hole to 15" to 891'.

Page 1 of 5 pages.

HISTORY OF OIL OR GAS WELL

(Submit in duplicate)

In compliance with rules and regulations adopted pursuant to ORS 520.095 (Chapter 667 OL 1953)

Operator Reserve Oil and Gas Company Field Golden Valley Area
Well No. "Esmond" No. 1 , Sec. 7 , T. 12S R. 1W W.B. & M.
Signed
Date September 12, 1962 Title
(President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form in reporting the history of all important operations at the well, together with the dates thereof, prior to the first production. Include in your report such information as size of hole drilled to cementing or landing depth of casings, number of sacks of cement used in the plugging, number of sacks or number of feet of cement drilled out of casing, depth at which cement plugs started, and depth at which hard cement encountered. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

June-'62
5 Casing and Cementing Data
Ran 896.20' of 10-3/4" 32.75# J-55 casing including 1.20' Baker Guide Shoe. Cemented at 891' with 300 sacks of gel treated construction cement, 177 sacks neat cement and 150 sacks cement with 3% CaCl₂. Lost returns with 180 cu. ft. displacement to go. Cement in place 2:00 AM. Located cement 25' down between strings. Grouted between strings with 20 sacks cement.
6 Landed casing. Installed and tested blowout prevention equipment. Ran 9-7/8" drilling setup. Drilled out plug, cement and shoe, cleaned out to 1041'. Installed formation logging unit. Drilled 1041'-2941' with nineteen 9-7/8" bits.
23 Ran induction electric log and microlog 2943'-892' (Elog measurement). Made up tester.
Formation Test Data
Formation test of interval 2891' to 2941'. Ran Cook tester on 4-1/2" drill pipe with 204' of 7" drill collars with no cushion; 3-1/2" Itco Jars and 1/2" bean in tool. Set 8-1/2" packers at 2884 and 2890' with 50' 4-5/8" perforated tail pipe, including 3 pressure recorders to 2942'. Set packer at 6:00 PM. Initial shut in 6:03 PM to 6:33 PM. Valve open 41 min. from 6:33 PM to 7:20 PM. Date: 6-23-62. Med. strong blow decreasing to very weak. Shut in 7:20 PM to 7:35 PM. Rec. net rise of 144' watery mud. Salinity 407 GPG. Pressure charts showed hydrostatic pressure of 1625 psi, initial shut in 100 psi, initial flow 100 psi, final flow 125 psi, final shut in 125 psi, final hydrostatic 1625 psi. Loaded out tester.
24 Drilled 2941'-4010' with eight 9-7/8" bits.
July-'62
1 Made up tester.
Formation Test Data
Formation test of interval 3974-4010'. Ran Cook tester on 4-1/2"

Page 2 of 5 pages.