

Yates Petroleum Corporation
Lucas Store "KT" State Com No. 1 - B-1111
1980' FNL & 1980' FEL of Section 22-17S-28E
Eddy County, New Mexico

ATTACHMENT:

Perforating and treatment report

WIH w/Tubing Conveyed Gun, Guiberson packer on 2-7/8" tubing, set packer at 10215' and perforated 10252-10262' w/40 .50" holes (4 spf) - had a small blow. Treated perforations w/1000 gallons 7½% MS acid and nitrogen w/ball sealers. Swabbed and swabbed dry. Pulled packer at 10215'.

WIH w/Tubing Conveyed Gun and Guiberson Uni VI packer on 2-7/8" tubing, set packer at 10151'. Perforated 10188-10197' w/36 .50" holes - no shows. Recovered water.

WIH w/CIBP set at 10150'. Dumped 35' of cement on top of plug. WOC. WIH w/Casing gun on wireline and perforated 8580-8628' w/112 .41" holes (4 spf) as follows: 8580-92' w/64 holes; 8612-28' w/48 holes. WIH w/Guiberson Uni VI packer on 2-7/8" tubing, spotted acid and set packer at 8544'. Treated perforations w/2500 gallons 15% DS-30 acid and ball sealers. Swabbed 600' of water/ hour from 5700' w/small show of gas.

WIH w/Retainer set at 8550', squeezed perforations w/150 sacks Class H cement to 4000#, reversed out 49 sacks. WIH w/Tubing Conveyed gun and Guiberson Uni VI packer on 2-7/8" tubing. Set packer at 7814'. Perforated 7850-7890' w/84 .50" holes (4spf) as follows: 7850-7862' w/48 holes; 7870-7874' w/16 holes and 7885-7890' w/20 holes. Swabbed - had slight blow w/trace of gas. Treated perforations w/2000 gallons 15% DS-30 acid and nitrogen w/ball sealers. Swabbed and had trace of gas w/black water.

Loaded tubing, unseated packer and POOH w/tubing and packer. RIH w/RBP on 2-7/8" tubing, set RBP at 7777' and tested to 1500#. Got off RBP and POOH w/tubing. WIH w/Casing Gun on Wireline and perforated 7730-7748' w/32 .34" holes as follows: 7730-38' (8 shots); 7740-48' (8 shots). RIH w/2-7/8" tubing and Guiberson packer, set packer at 7696'. Swabbed - had show of gas TSTM.

WIH and moved RBP to 7697' . POH. WIH w/Tubing Conveyed Guns and Guiberson Uni VI packer on 2-7/8" tubing, set packer at 7425'. Perforated 7450-7460' w/40 .50" holes (4spf). No shows. Acidized perforations w/1000 gallons 15% DS-30 acid and nitrogen. Swabbing w/small show of oil.

Unseated packer and pulled packer. Ran tubing w/top half of on off tool and unseated RBP at 7697' and pulled up to 7440'. Set RBP at 7440'. Pulled tubing out of hole. WIH w/casing gun on wireline and perforated 7431-37' w/12 .34" holes. RIH w/Guiberson packer on 2-7/8" tubing, set packer at 7396'. Swabbed dry. Treated perforations 7431-37' w/1000 gallons 15% DS-30 acid. Swabbed dry and no shows.

WIH and pulled all packers out of hole and squeezed perforations as follows: 7850-7890' w/75 sacks Class H 3/10% CFR-2, 6/10% Halad-9, 5#/sack gilsonite. Pulled tubing out of hole. Set retainer at 7700' and squeezed perforations 7730-7748' w/75 sacks Class H 3/10% CFR-2, 6/10% Halad-9, 5#/sack gilsonite. Pulled tubing out of hole. Set retainer at 7400' & squeezed perforations 7431-7460' w/75 sacks Class H 3/10% CFR-2, 6/10% Halad-9, 5#/sack gilsonite. WOC.

Drilled out cement plugs. COH. WIH w/Casing gun on wireline and perforated 9440-46' w/24 .50" holes (4 spf). WOH. WIH w/Guiberson Uni Vi packer on 2-7/8" tubing, set packer at 9383'. Swabbed and recovered no fluid. Treated perforations w/1000 gallons 15% DS-30 acid. Swabbed dry in 3 runs. No shows. WIH w/casing gun on wireline and perforated 9447-57' w/20 .34" holes. Swabbed and swabbed dry. Treated perforations w/1000 gallons 15% DS-30 acid w/ball sealers. Swabbed dry and no shows.

WIH and set CIBP at 9390'. Dumped 35' of cement on top of plug. WOC. WIH w/casing gun on wireline and perforated 6610-6658' w/40 .34" holes as follows: 6610-12' (3 shots); 6620-24' (5 shots); 6630-34' (8 shots) & 6648-58' (24 shots) POH. WIH w/2-7/8" tubing, Set RBP at 6703' and Guiberson packer at 6578', started swabbing . No show of oil or gas. Treated perforations w/1000 gallons 15% Spearhead acid and ball sealers. Swabbing back a show of oil and gas. Preparing to install pumping equipment.