

NEW MEXICO OIL CONSERVATION COMMISSION
MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Order File 1106)

COMPANY The Pure Oil Company P. O. Box 671 - Midland, Texas 79701
(Address)

LEASE Red Hills Unit WELL NO. 1 UNIT 0 S 32 T 25-S R 33-E

DATE WORK PERFORMED 8-14-64 POOL Undesignated

10- 2-64

This is a Report of: (Check appropriate block) ☐ Results of Test of Casing Shut-off

☐ Beginning Drilling Operations

☐ Remedial Work

☐ Plugging

☒ Other Completion work

Detailed account of work done, nature and quantity of materials used and results obtained.

See attached

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____

Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____

Perf Interval (s) _____

Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:

BEFORE

AFTER

Date of Test

Oil Production, bbls. per day

Gas Production, Mcf per day

Water Production, bbls. per day

Gas-Oil Ratio, cu. ft. per bbl.

Gas Well Potential, Mcf per day

Witnessed by _____

(Company)

OIL CONSERVATION COMMISSION

I hereby certify that the information given above is true and complete to the best of my knowledge.

Name _____

Name J. F. Wilkinson

Title _____

Position District Office Manager

Date _____

Company The Pure Oil Company

21,321' Total Depth - Ran electrical logs. Attempted DST #11 20,909' to 20,321', pressured up with nitrogen 1150# at surface, opened tool and packer failed. Pulled test tool, recovered 8000' (52.8 barrels) slightly gas and salt water cut mud. Ran drill pipe open ended to 20,450', 7 hours circulated to set cement plug, pulled 8 joints drill pipe to 20,200', set 80 sacks Trinity Inferno cement plug 20,200' to 19,500'. 15 hours WOC. Pulled drill pipe to 15,823', set 65 sacks Trinity Inferno cement plug 18,523' to approximately 18,000'. Pulled drill pipe to 16,942'. 17 hours WOC. Ran open ended drill pipe to 18,295', top of cement plug. Pulled open ended drill pipe, ran bit and reamer on drill pipe to top of plug 18,295', 5 hours circulated to clean and condition hole, pulled drill pipe, reamer, and bit. Picked up and ran 4-1/2" OD liner, hung liner with bottom at 18,094' and top at 16,700'. Cemented with 166 sacks Trinity Inferno cement with 1% CFR-2, 5/10% HR-4, 10 barrels water, 24 barrels SAP, 10 barrels water for mud flush. Pulled out with TIW setting tool. 7 hours WOC. Ran bit to top of liner at 16,700', no solid cement above liner. Circulated out 3 hours. Closed BOP on 4-1/2" drill pipe and pressured up to 2500# for 40 minutes, held OK. Ran 3-5/8" bit on 2-7/8" drill pipe, washed to 17,829' and drilled cement to 18,007', top of TIW plug. Pressured up to 2500# for 30 minutes, held OK. Ran Welex Gamma Neutron Collar Log 18,005' to 12,000'. Perforated 4-1/2" OD liner 17,637' to 17,638' with 3 3/8" jet shots. Set 4-1/2" SDC retainer at 17,562' to 17,564'. Ran drill pipe with SDC stinger, circulated fluid out of drill pipe. Attempted to break down perforations with 6000 psi, failed. Drilled out retainer at 17,562'. Welex perforated 4-1/2" OD liner 17,663' to 17,684' with 2 jet shots per foot. Set SDC cement retainer at 17,590'. Ran SDC stinger, displaced mud with nitrogen, bled nitrogen off. Pumped in 10 barrels water, 13-1/2 barrels nitrogen, 72 barrels acid, blended with 400 cubic feet per barrel nitrogen, displaced with 138 barrels water blended with 400 cubic feet per barrel nitrogen, reduced nitrogen back slowly to 200 cubic feet per barrel as displacement neared completion. Treating pressure 3 BPM at 3700#, shut in pressure 3200#, after 5 minutes 2100#. Unloaded on various chokes, made gas to pit TSTM. Squeezed perforations 17,663' to 17,684' with Trinity Inferno cement. 17 hours WOC. Pressured up to 2000# for 30 minutes, held OK. Perforated 4-1/2" OD liner in Devonian 17,476' to 17,492' and 17,523' to 17,544' with 2 shots per foot. Acidized perforations 17,476'-92' and 17,523'-44' with 5000 gals. 15% acid and 2000 cubic feet water, flushed with 124 barrels fresh water, 1000 cubic feet water per barrel. Rate 6.2 BPM, average pressure 5200#, maximum 5500#, minimum 5100#. Flowed to pit to clean up. Rigged up heater and separator. 5-1/2 hours flowed, 20/64" choke, at stabilized rate of 7.8 MMCF/D. 3 hours flowed, 26/64" choke, at stabilized rate of 10.4 MMCF/D. Killed well. Ran SDC retainer, set at 17,382' to 17,384', squeezed perforations 17,476' to 17,492' and 17,523' to 17,544' with 150 sacks Trinity Inferno cement. 11 hours WOC. Pressured up to 2000# for 30 minutes, held OK. Set SDC retainer as bridge plug at 16,800', dumped 2 sacks cement on top. Laid down drill pipe. Ran 7-5/8" OD P-110 buttress casing, including 209 joints 33.7# on bottom and 188 joints 39# on top, and set in tie-back sleeve at 12,207'. Tested seal on sleeve to 1800#, held OK. Pumped in 15 barrels water, 24 barrels mud flush, 15 barrels water, 225 sacks Trinity Inferno cement, 10 barrels water, displaced with 525 barrels mud, set seal in sleeve, held OK. 24 hours WOC. Installed tubing head and pack off flange, tested to 8100# for 30 minutes, held OK. Installed and tested Series 2900 BOP. Ran 2-7/8" tubing with 6-1/2" bit, drilled cement and shoe 12,156'-12,207'. Round trip for 5-5/8" bit, circulated out to 16,700'. Perforated 15,190' to 15,191' with 4 jet shots. Set SVDC retainer at 15,117'. Squeezed perforations 15,190'-15,191' with 200 sacks Trinity Inferno cement, SVDC tool failed to close. Cemented through SVDC retainer at 15,137' with 200 sacks Trinity Inferno cement. Squeezed third stage through perforations 15,190' to 15,191' with 200 sacks Trinity Inferno cement. Perforated 14,970' to 14,971' with 4 jet shots. Ran SVDC tool, set at 14,875'-14,877'. Squeezed perforations 14,970'-14,971' with 200 sacks Trinity Inferno cement. 9-1/2 hours WOC. Squeezed perforations 14,970'-14,971' with 200 sacks Trinity Inferno cement. Perforated 14,806' to 14,807' with 4 jet shots. Ran SVDC tool, set at 14,716'-14,718'. Cemented perforations 14,806'-14,807' with 200 sacks cement. Perforated 14,570' to 14,571' with 4 jet shots. Ran SVDC tool, set at 14,480'-14,482'. Squeezed perforations 14,570'-14,571' with 200 sacks Trinity Inferno cement. Perforated 14,436' to 14,437' with 4 jet shots. Ran SVDC retainer, set at 14,348'. Squeezed perforations 14,436'-14,437' with 200 sacks Trinity Inferno cement. 18-1/2 hours WOC. Drilled out SVDC retainer and cement to 14,716'.