

NEW MEXICO OIL CONSERVATION COMMISSION
MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 21-1-106) Nov 27 2 18 PM '63

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

LEASE Red Hills Unit WELL NO. 1 UNIT 0 S 32 T 25-S R 33-E
DATE WORK PERFORMED 7-16-63 POOL Undesignated
11-21-63

This is a Report of: (Check appropriate block) ☐ Results of Test of Casing Shut-off
☐ Beginning Drilling Operations ☐ Remedial Work
☐ Plugging ☐ Other _____

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

* See Attachment

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 _____
Title _____
Date _____

Name J. F. Williams
Position District Office Manager
Company The Pure Oil Company

Attachment for Form C-103
Red Hills Unit #1
7-15-63 through 11-21-63

Drilled cement inside 4-1/2" DP 6700'-8397'. Attempted to pull 1-5/8" DP out of 4-1/2" DP, 1-5/8" DP parted. Fished 1-5/8" DP out of hole. Ran 9-1/2" bit on 4-1/2" DP to 12,500', drilled cement 12,500'-12,717', lowered bit to 12,860', top of float collar, well gassing. Conditioned and cleaned hole. Ran retainer and set at 12,517', attempted to squeeze with 50 sacks cement, no pressure increase. Squeezed with 100 sacks cement, pressure decreased when cement on formation. Third stage, 200 sacks cement, maximum pressure 6000#, minimum 5400#, 125 sacks in formation. Could not pull DP out of retainer. Washed over fish, recovered same, pulled out of hole. Washed and drilled cement to 13,475'. Ran DST tool to test squeeze at 12,717', recovered part of load water, pressure increased to 2000#, shut in at surface, pressure increased to 2600#. IFP 7375#, FFP 8225#, IHP 10,205#, FHP 10,200#. Pulled test tool. Installed 10,000# WP BOP, 12 hours tested BOP. Squeezed perforations at 12,717' with 500 sacks cement. drilled, washed, and reamed cement stingers 12,938'-13,453', well started blowing, put well on chokes, conditioned mud. Cut core #1 13,475'-13,499', recovered 24' black shale with lime stringers, no porosity, no show. Ran DST tool, set at 12,650', tail pipe at 13,475', 1/2" bottom choke, full water cushion. Tool open 6 hours 24 minutes, attempted to flow through separator, would not work. Flowed to pit, stabilized pressure 1700# at 12 MMCF/D. Opened by-pass on test tool, circulated, lost 650 barrels mud, pulled tool. ISIP 11,400#, IFP 9205#, FFP 4215#, IHP 11,400#, 2 hour FSIP 10,400#, BH temperature 190 deg. Reamed core hole 13,475'-13,499'. Drilled 13,499'-13,612', started losing mud, lost complete returns. Ran RTTS tool, set at 12,650', cemented with 750 sacks cement. Started drilling, well gassing, drilled 13,612'-14,422'. Ran 45 joints, 1878', 8-5/8" OD 49# Liner, top of liner at 12,421', bottom at 14,299'. Cemented with 600 sacks cement with 14% salt added. Set cement retainer at 12,282', cemented with 400 sacks. Squeezed cement and cemented 2nd stage on top of 8-5/8" OD liner with 400 sacks. Third stage, squeezed 200 sacks Pozmix and 200 sacks cement around top of liner. Drilled out retainer, ran DST tool to check squeeze, tool plugged. Drilled cement to 14,228', ran DST tool to check squeeze, indicated flow around top of liner or from inside liner. Ran DST tool to test inside of liner, set packer at 12,400', filled DP with water pressured to 4400#, opened tool for 1 hour. Pulled test tool. Ran RTTS tool, set packer at 12,267', pressured to 7500# for 30 minutes, formation would not take fluid. Pulled RTTS tool, conditioned hole. Ran Gamma Neutron log. Drilled 14,422'-14,473', knocked cone off bit, well started flowing while waiting on fishing tools, recovered fish. Ran temperature survey to locate gas leak, indicated leak around top and bottom of 8-5/8" OD liner. Set 70-sack cement plug 14,360' to 14,200', attempted DST of liner, unable to get below 13,632'. Ran bit to 14,360', found no solid cement. Spotted 115-sack cement plug 14,345'-14,000'. Drilled and washed to 14,265'. Set Baker Model "D" Packer at 12,450'. Ran injectivity test, 60 barrels mud, 6 BPM, 1800#. Followed with 650 sacks cement, tailed in with 100 sacks cement. Staged cement 1/2 BPM at 10 minute stages. Pressure tested. Injectivity test, 20 barrels mud, 4 BPM, maximum 2600#, minimum 2200#. Staged in 750 sacks cement, 17# per gallon slurry, pumped in total of 227 barrels mud between stages. Staged in 500 sacks regular and 300 inferno cement, maximum squeeze pressure 5000#. Drilled cement inside liner 12,419'-12,450', top of packer. Milled over and fished packer out of hole. Drilled cement 12,450'-13,929'. Tested liner at 13,401' and 13,712' with 3000#, held OK. Drilled cement to 14,268', tested with 3000#, broke to 1400#. DST open hole 14,260'-14,268', set packers at 14,178' and 14,183'. Pressured to 5200#, bled pressure at 5 minute intervals, no build-up. Drilled cement 14,268'-14,473', drilled new hole 14,473'-14,732'.

