

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other ☐
2. NAME OF OPERATOR
Oxoco Production Corp.
3. ADDRESS OF OPERATOR
P.O. Box 255, Farmington, N.M. 87401
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1450' fS1, 1140' fE1
AT TOP PROD. INTERVAL: same
AT TOTAL DEPTH: same
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

SUBSEQUENT REPORT OF:

☐
☒
☒
☐
☐
☐
☐
☐

5. LEASE

NM-33056

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Rattlesnake Canyon

9. WELL NO.

1

10. FIELD OR WILDCAT NAME
Blanco-Mesaverde

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 20, T32N-R8W, NMPM

12. COUNTY OR PARISH | 13. STATE
San Juan | N.M.

14. API NO.

30-045-2350

15. ELEVATIONS (SHOW DF, KDB, AND WD)
6357' Gr., 6370' KB est.

(NOTE: Report results of multiple completion or zone change on Form 9-331.)

RECEIVED

JUN 10 1983

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Well completion in Mesaverde formation in accord with attached daily drilling summary. Recovery of frac fluid load will continue until well cleaned up enough to shut in for official production test.

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JUN 14 1983

OIL CON. L
DIST. 3

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED William R. Speer TITLE Agent DATE June 10, 1983

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD

JUN 16 1983

*See Instructions on Reverse Side

NMOCC

FARMINGTON DISTRICT
SM

RECEIVED
MAY 31 1963
DIV.

May 29 Sun. Moved in Well Tech completion rig no. 209 and spotted at wellhead. Rigged up Dresser Atlas and ran cement bond log-VDL-CCL from logger T.D. 5862' to 2800'.

May 30 Mon. Shut down for Memorial Day.

May 31 Finished rigging up Well Tech rig no. 209. Installed BOP. Ran in hole with 119 jts. 2 2/8", 4.7# EUE tubing. Tagged PBTD at 5881'. Pressure tested casing to 2500 psi, held O.K. for 30 min. Had on-site inspection made by U.S. Mineral Management Service personnel as requested with Oxoco representative present.

June 1, '83
Wed. Circulated hole with 1% KCl water. Swabbed fluid level to 2100'. Pulled tubing out of hole. Rigged up Dresser-Atlas and perforated Point Lookout section of the Mesa-verde formation with forty-five 0.35" jet shots as follows: 5663,-64,-65,-66,-67,-68,-69,-70,-71,-72,-73,-74,-76,-78,-80,-84,-86,-88,-90,-92,-94, 5700,-02,-26,-28,-29,-30,-32,-33,-34,-38,-39,-40,-41,-42,-43,-44,-46,-48,-50,-64,-66,-68,-71, 5773. No reaction in casing while perforating, no change in fluid level while running or pulling guns. Picked up Baker Model "C" bridge plug and fullbore 4½" packer on 2 3/8" tubing and ran in hole. Isolated perfs from 5764' to 5773', could not break down with water. Spotted 400 gal. 7½% HCl acid in two separate 200 gal. treatments. Perfs broke down after 20 min. at 3000 psi. Isolated perfs from 5726 to 5750'. Pumped in with water. Isolated perfs from 5663 to 5702'. Pumped in with water. All three settings and breakdowns achieved injection rate of 8 BPM at 2250 psi and had ISIP's of a vacuum. Pulled tubing to 4348' and shut in for night.

June 2
Thur. Completed pulling packer and bridge plug from hole. Rigged up NOWSCO and pumped 3250 gal. 7½% HCl acid containing sixty-five 7/8" RCN ball sealers. Achieved 62 BPM rate at 2200 psi and obtained complete ball-out. Dresser-Atlas ran 4½" wire line junk basket to PBTD of 5881'. Recovered 52 balls with 39 having perforation marks. Rigged up NOWSCO and fracture treated down casing with 1% KCl water containing 2.5 lb/1,000 gal friction reducer and 25 lb/1,000 gal. fluid loss additive in pad only. Fraced as follows: 20,000 gal. pad at 61 BPM at 2,000 psi. 40,000 gal. with 1 lb./gal. 20-40 sand at 63 BPM at 1,650 psi. Lost one suction pump on blender at start of 1½ lb/gal. section with rate continually decreasing from 63 BPM to 45 BPM while pumping 1½ lb/gal. Pumped 25,450 gal. with 1½ lb/gal. 20-40 sand at 63 to 45 BPM at 2,200 psi. Sanded off leaving 5700 lbs. sand in casing. Maximum treating pressure 2,620 psi. Total sand pumped through perfs was 72,250 lbs. Load water to recover 2,526 bbls. Ran 2 3/8" tubing open-ended in hole to 3317' Reversed out large sand plug at that depth. Pulled tubing up to 2670' and shut in overnight to allow sand to fall out.

June 3
Fri. Continued in hole with 2 3/8" tubing to tag sand at 4638' Rigged up NOWSCO and cleaned out sand from 4638' to 5870' using KCl water in reverse circulation. Pulled tubing out of hole. Dresser Atlas ran 4½" wire line junk basket to 5650' with no restrictions. Ran Baker wireline set, tubing retrievable bridge plug to 5640'. Pressure tested casing

June 3 (cont'd) to 2500psi, held O.K. Ran 2 3/8" tubing with seating nipple one stand off bottom to 5603'. Spotted 10 gal. sand to bottom of tubing. Pulled tubing up to 3220' Rigged up to swab down. Shut down for night.

June 4
Sat. Swabbed fluid level to 2200'. Pulled tubing out of hole. Rigged up Dresser Atlas and perforated Cliff House and Menefee formations with forty-seven 0.35" jet shots as follows: 5334, 5336, 5338, 5339, 5340, 5341, 5342, 5343, 5344' and 5406', 5408, 5410, 5411, 5412, 5413, 5414, 5415, 5417, 5419, 5422, 5424, 5426, 5428, 5429, 5430, 5432, 5434, 5435, 5436, 5437, 5438' and 5495', 5497, 5501, 5502, 5504, 5505, 5506, 5507, 5508' and 5588', 5590, 5591, 5592, 5594, 5596, 5598'. Ran 2 3/8" tubing with Baker fullbore packer and Model "C" bridge plug. Isolated perfs at 5588' to 5598', would not break down with water at 2500 psi. Spotted 420 gal. 7½% HCl acid (enough to cover all perforated intervals). Broke down perfs with 1200 psi, established an injection rate of 6.2 BPM at 2200 psi, ISIP 600 psi. Isolated perfs at 5495 to 5508', broke down at 1900 psi, established injection rate of 6.0 BPM at 2350 psi, ISIP 900 psi. Isolated perfs at 5406 to 5438', broke down at 1700 psi, established injection rate of 8.3 BPM at 2400 psi, ISIP 400 psi. Isolated perfs at 5334 to 5344', broke down at 1500 psi, established injection rate of 5.2 BPM at 2350 psi, ISIP 700 psi. Pulled packer and bridge plug. Rigged up NOWSCO and established an injection rate of all perfs of 38 BPM at 1900 psi. Pumped 3,780 gal. 7½% HCl acid, dropped 65 rubber ball sealers and obtained complete ball-off. Allowed well to flow back with continuous strong flow. Shut well in and pumped KCl water down casing at 10 BPM rate to assure that balls had cleared 7" intermed. casing. Allowed pressure to decrease until able to run wireline junk basket. Ran junk basket to 5631' and recovered 21 of 65 ball sealers. Rigged up NOWSCO and fracture treated Cliff House-Menefee formations with 73,886 gal. 1% KCl water containing 2.5 lbs/1,000 gal. friction reducer and 47,000 lbs. 20-40 sand as follows: 20,000 gal. pad with 25 lb/1,000 gal. fluid loss additive at 59 BPM injection rate at 2300 psi.; 53,886 gal. with 1 lb/gal. 20-40 sand with initial rate of 65 BPM at 2300 psi. Rate started to decrease and pressure increase after 25,200 gal. of sand-laden fluid had been pumped. Well sanded-off with 47,000 sand in formations. No flush was pumped as well reached pre-determined 2500 psi maximum pressure as decision was made to start flush at 25 BPM rate. ISIP 2800 psi, decreasing to 650 psi in 15 min. Load to recover 2026 bbls. Opened well to atmosphere 1 hr. after shut-in. Flowed frac water with small amount sand at approx. 2 BPM rate. Left well open overnight and throughout Sunday.

June 5 Shut down for Sunday.
Sun.

June 6 Checked well dead on arrival at location. Ran 2 3/8"
Mon. tubing open-ended and tagged sand at 4703'. Cleaned out sand from 4703' to 5412' with reverse circulation. Rig pump was malfunctioning and was not able to keep up with loss of fluids to formation at 5412'. Apparent loss into Menefee perms from 5406' to 5438'. Will replace pump. Pulled tubing up hole to 3157' and established circulation. Circulated tubing clean. Shut well in overnight.

June 7 Opened well to atmosphere and found on vacuum. Lowered
Tues. 2 3/8" tubing to tag sand at 5345'. Rigged up NOWSCO and unloaded hole with nitrogen, maximum pressure 2200 psi. Cleaned out sand using conventional circulation and nitrogen from 5345' to Baker bridge plug at 5640'.

June 8 Ran 2 3/8" tubing with retrieving head for bridge plug
Wed. and string float two joints off bottom. Used conventional circulation with NOWSCO nitrogen to wash down to plug while rotating with power swivel. Latched on to bridge plug at 5640'. Pulled tubing out of hole with plug intact. Ran 2 3/8", 4.7# EUE tubing open-ended with seating nipple one joint off bottom. Tagged sand at 5765' (bottom perf at 5773'). Cleaned out sand from 5765' to 5870' with nitrogen. Landed tubing in wellhead as follows:

174 jts. 2 3/8", 4.7# EUE tbg.	5603.99'
Seating nipple	1.10'
1 jt. 2 3/8", 4.7# EUE tbg.	<u>32.16'</u>

5637.24'

Zero kelly bushing	<u>12.00'</u>
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Tubing landed at (RKB measur.)	<u>5649'</u>
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Total joints in hole= 175.

Installed Christmas tree. NOWSCO pumped nitrogen down tubing to clear fluid from well (well had a fair blow of gas up annulus). Opened tubing to atmosphere to clean up overnight.

June 9 Rigged down Well Tech rig no. 209. Well flowing gas with
Thur. 400 psi casing pressure. Heavy frac water mist prevented accurate guage of gas. Shut well in at 2:45 p.m., 6/9. Will continue clean up well by blowing periodically to recover frac water until able to shut well in for 7 day shutin period for official production test. Final daily report.