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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
ARTESIA, OFFICE

NM OIL CONG. COMMISSION
Draven DD
Artesia, NM 88210

Form Approved
Budget Bureau No. 42-R1424

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 ☐ Convert to Disposal Well

2. NAME OF OPERATOR

Exxon Corporation

3. ADDRESS OF OPERATOR

P.O. Box 1600, Midland, TX 79702

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) 660' FSL & 1980' FEL of Section

AT SURFACE:

AT TOP PROD. INTERVAL:

AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

SUBSEQUENT REPORT OF:

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

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(other) Convert to SW disposal well

5. LEASE
NM-01119

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Yates Federal "C"

9. WELL NO.
11

10. FIELD OR WILDCAT NAME
Avalon Delaware

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 38-20S-28E

12. COUNTY OR PARISH
Eddy

13. STATE
New Mexico

14. API NO.
30-015-24377

15. ELEVATIONS (SHOW DF, KDB, AND WD)

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)*

SEE ATTACHED SHEET

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

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

SIGNED Nancy Andrews TITLE Unit Head DATE 2/15/84

APPROVED BY W. CHESTER (This space for Federal or State office use)
APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

MAR 20 1984

SUBJECT TO LIKE
APPROVAL BY STATE

See Instructions on Reverse Side

Yates Federal C-11
Conversion Procedure
December 30, 1983

1. MIRU. NU BOP's test to 2000 psi. Release pkr and circulate hole full of fresh water. POH.
2. Set CIBP at 3600'. RIH w/squeeze RTTS packer to 3500'. Set pkr and pressure test BP to 2000 psi. Pull and set pkr at 3250'±.
3. Squeeze the perfs (3424-3448) using 150 sx class C, 12 lbs. gilsonite. 2% CaCl₂ per sack. Displace cmt below packer and obtain 2000 psi squeeze pressure. Hesitate displacement as necessary to obtain squeeze.
4. Release pkr and reverse out excess cmt. Pull to 3000' and WOC 12+ hds. Set pkr and pressure test sqze to 2000 psi. Pull and set pkr at 2680'.
5. Squeeze the perfs (2712-2757) using 300 sx class C, 12 lbs gilsonite, 2% CaCl₂ per sack. Displace cmt down to packer.
6. Release pkr and reverse out excess cmt. Pull to 2000' and WOC 12+ hrs. RIH and set pkr at 2650. Test sqze to 2000 psi. Pull and set pkr at 2500'. Test annulus to 1000 psi.
7. Squeeze perfs (2550-2630) using 500 sx class C, 12 lbs. gilsonite, 2% CaCl₂ per sack. Displace to pkr and obtain sqze pressure. Reverse out excess cmt. WOC 12+ hrs test to 2000 psi.
8. RIH w/bit and scraper to drill out cmt plugs. Stop drilling and pressure test to 500 psi at each of the following: depth (interval tested): 2590' (2550-2587); 2640' (2598-2630); 2770' (2712-2757), 3460' (3424-3448).
9. Drill out CIBP at 3600' and RIH to 4500'±. Circulate hole w/brine water. POH.
10. Perforate using a 4" hollow carrier jet casing gun w/premium charges.

<u>Interval</u>	<u>Density</u>	<u>Shots</u>
3955-3982	1 SPF	28
4050-4070	1 SPF	21
4130-4185	1 SPF	56
		<u>105 Shots Total</u>

11. RIH w/retrievable bridge plug (w/ball catcher) and packer. Acidize in 3 stages using inhibited 15% NE HCL.

<u>Stg</u>	<u>BP Depth</u>	<u>Pkr Depth</u>	<u>Acid (Gal)</u>	<u>Balls Dropped</u>	<u>Total Balls</u>
1	4250'	4100'	7000	2 every 3 bbl	110
2	4100'	4020'	2500	-	-
3	4020'	3900'	3500	-	-

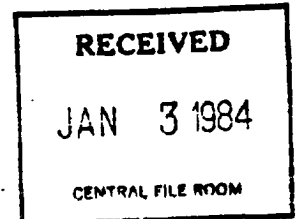
12. Move bridge plug down to 4300'. Pull and set packer to 3850.
13. Run step rate injectivity test.
14. If injectivity is not adequate frac the well with 50,000 gal Dowell YF4PSD (cross linked 3% KCL water) and 52,000 lbs 20/40, 30,000 lbs. 10/20 sand.
 - a. Schedule: 8000 gal YF4PSD Pad
3000 gal YF4PSD w/1 ppg 20/40
4000 gal YF4PSD w/2 ppg 20/40
5000 gal YF4PSD w/3 ppg 20/40
5000 gal YF4PSD w/3 ppg 10/20
 - b. Drop 50 1.1 SG balls during the last 500 gal of step a.
 - c. Repeat step a one time.
 - d. Flush to top perf w/slick 3% KCL water.
15. SION, release pressure and retrieve bridge plug and pkr.
16. RIH w/Baker Lokset nickel cadmium coated packer, on-off tool w/1.875 profile, and downhole shut off valve on 2 7/8" plastic lined tubing to 3900'.
17. Circulate annulus full of fresh water containing 20 gal corexit 7720 and 10 gal corexit 7672 per 100 bbl FW.
18. Set packer and pressure test annulus to 500 psi.
19. Install 1000 psi pressure gauge on annulus valve and put well on disposal.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:

CASE NO. 8013
Order No. R-7408

APPLICATION OF EXXON COMPANY FOR
SALT WATER DISPOSAL, EDDY COUNTY,
NEW MEXICO



ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8 a.m. on November 22, 1983, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 14th day of December, 1983, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Exxon Company, is the owner and operator of the Yates Federal "C" Well No. 11, located 660 feet from the South line and 1980 feet from the East line of Section 31, Township 20 South, Range 28 East, NMPM, Eddy County, New Mexico.

(3) That the applicant proposes to utilize said well to dispose of produced salt water into the Delaware formation, with injection into the perforated interval from approximately 3920 feet to 4200 feet.

(4) That the injection should be accomplished through 2 7/8-inch lined tubing installed in a packer set at approximately 3850 feet; that the casing-tubing annulus should be filled with an inert fluid; and that a pressure gauge or approved leak detection device should be attached to the annulus in order to determine leakage in the casing, tubing, or packer.

which will limit the wellhead pressure on the injection well to no more than 786 psi.

(3) That the Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected fluid from the Delaware formation.

(4) That the operator shall notify the supervisor of the Artesia district office of the Division of the date and time of the installation of disposal equipment so that the same may be inspected.

(5) That prior to use of said well for salt water disposal, the operator shall squeeze cement the perforations from 2550 feet to 2757 feet and from 3424 feet to 3448 feet.

(6) That the operator shall immediately notify the supervisor of the Division's Artesia district office of the failure of the tubing, casing, or packer, in said well or the leakage of water from or around said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

(7) That the applicant shall conduct disposal operations and submit monthly reports in accordance with Rules 702, 703, 704, 705, 706, 708, and 1120 of the Division Rules and Regulations.

(8) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


JOE D. RAMEY,
Director

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