

Form 9-331
Dec. 1973Form Approved.
Budget Bureau No. 42-R1424

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 ARCO Oil & Gas Co.

Division Of Atlantic Richfield Co. ✓

3. ADDRESS OF OPERATOR

P.O. Box 1710, Hobbs, New Mexico 88240

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 560' FSL & 3350' FEL

AT TOP PROD. INTERVAL:

AT TOTAL DEPTH: as above

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* ☐

(other)

☐☒☐☐☐☐☐☒

Abo

Repair Water Flow

5. LEASE

LC-031844

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Fren Oil Co.

9. WELL NO.

21

10. FIELD OR WILDCAT NAME

North Cedar Lake Morrow

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

19-17S-31E

12. COUNTY OR PARISH

Eddy

13. STATE

New Mexico

14. API NO.

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

3579' GL

(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.)*

1. Rigged up on 10-30-80. Removed tbg head. Set plug in long string. Pulled SS tbg loose & installed BOP. POH w/SS & LS tbg. Ran bit & scraper to 11,047' PBTD.
2. RIH w/RBP & pkr. Set RBP @ 10,993'. Set pkr @ 6906'. Press tested csg/tbg annulus to 1000#. OK. Pump down tbg into Abo perms 6944-96', established inj rate @ 2 BPM. Moved pkr to 7086', test csg below perms to 1000#, leaked to 600# in 17 mins. Moved pkr to 7390', leaked. Re-set pkr @ 10,813', press tested to 1000#, OK. Btm of leak isolated @ 8375'. POH w/pkr.
3. RIH w/pkr & RBP, set BP @ 7275' w/4 sx sd on top. Spot 250 gals 15% NE acid. POH w/pkr. RIH w/cmt retr, set retr @ 6889'. Squeeze cmtd Abo perms 6944-96' w/100 sx Cl C cmt w/.6% Halad-9 & 100 sx Cl C cmt w/2% CaCl₂. RO 93 sx cmt.
4. Ran CBL-VDL-CCL 6000'-surf. TOC indicated @ 5800'. Perf'd 2 JSPF 5768-70'.
5. RIH w/cmt retr, set @ 5694'. Pmpd 250 sx Cl C cmt w/2% CaCl₂. MP 2100#. RO 1 bbl cmt. Temp survey indicated TOC @ 5100'.

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

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

SIGNED

TITLE

Dist. Drlg. Supt

DATE

1-13-81

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD

JAN 19 1981

U.S. GEOLOGICAL SURVEY
HOBBS, NEW MEXICO

*See Instructions on Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

GPO : 1976 O - 214-148

6. Surf'd 5050-5052' w/2 SPF. Set p. @ 4963'. Established circ thru perfs 5050-5052'. POH w/pkr. Set cmt retr @ 4992'. Pmpd 520 sx HOWCO light, 10# salt, $\frac{1}{4}$ # flocele/sk followed by 200 sx Cl "C" cmt w/2% CaCl_2 . Circ 75 sx HOWCO lite cmt to surf. Max. Squeeze press. 2000#. WOC. Drld out cmt & cmt retr. Press tested squeeze job to 1500# for 30 mins. OK. Drld out cmt retr @ 5694' & cmt. Press test squeeze job to 1500# for 30 mins. OK. Drld out cmt retr @ 6889' & cmt to 7037'. Press test perfs 6944-96' to 1500# for 30 mins. OK.
7. Washed sd off BP @ 7275', reset BP @ 8500', pkr @ 8150' located csg leak @ 8170-8385'. POH w/pkr & BP. RIH w/pkr, spot 150 sx Cl "H" cmt w/5/10% CFR-2, set pkr, press tbg to 5000#. POH w/ pkr & tbg. WOC. Drld out cmt. Press tested squeeze job to 1000# for 30 mins. OK. CO hole to 8490'. RIH w/pkr, set pkr @ 8170', press csg to 1000#, decr to 500# in 10 mins. Re-set pkr @ 8418', press tbg to 1500#, held OK. Re-set pkr @ 8360' & spot 400 gals 15% Reg acid, re-set pkr @ 8016', displ acid @ 1 BPM w/2750#. Spot 100 sx Cl H cmt w/6/10% Halad=9 50 sx Cl "H" Neat. Squeeze press 4000#. POH w/pkr. WOC. Drld out cmt. Press test squeeze job to 1000# for 30 mins. OK. Rec BP @ 8500'. Rec BP @ 10,993'.
8. RIH w/comp assy, latched into Mod "N" pkr 11,050'. Acidized Morrow perfs 11,142-52' & 11,204-18' w/4000 gals 7 $\frac{1}{2}$ % Morrow Flow BC acid w/1000 gals SCF nitrogen/bbl. Flushed w/5% KCL wtr w/1000 SCF nitrogen. Swbbd & kicked off to pit. Flwd 10 hrs on 3/4" ck 55# FTP, 775 MCFG, $\frac{1}{2}$ BW, 4 BC. On 1-7-81 SITP 625#. Opened to sales line ARO 429.4 MCFGPD @ 75# FTP. FINAL REPORT.