

Form 9-331
Dec. 1973Form Approved.
Budget Bureau No. 42-R1424UNITED 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 ☒ gas ☐ other
well well2. NAME OF OPERATOR ARCO Oil & Gas Company
Division of Atlantic Richfield Company ✓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: 660' FSL & 660' FWL

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:

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

SUBSEQUENT REPORT OF:

☒
☐
☒
☒
☐
☐
☐
☐
☒

RECEIVED

OCT 31 1980

U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICONOTE: Report results of multiple completion or zone
change on Form 9-330.)

5. LEASE

LC-029395 (a)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME DEC 12 1980
Turner "A"

9. WELL NO.

4

ARTESIA, NEW MEXICO

10. FIELD OR WILDCAT NAME

Grayburg Jackson (QGSA)

11. SEC., T., R., M., OR BLK. AND SURVEY OR
AREA
18-17S-31E

12. COUNTY OR PARISH Eddy

13. STATE
N M

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
3760' GL

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 9/11/80. POH w/ rods & pump. Install BOP. POH w/ tbg.
2. Set RBP @ 3110', located holes in csg 2280-2340'. Spot 4 sx sd on top of RBP.
3. Ran csg inspection log. RIH w/ cmt retr, set @ 2248'. Squeeze cmtd holes in csg w/ 775 sx Cl "C" cmt cont'g 18% salt, 100 sx Cl "C" cmt w/1% Latex & 2% CaCl₂. Spotted 30' cmt on top of retr.
4. Ran CBL. Perf'd 5½" csg @ 2200-02' w/2 JSPF, set pkr @ 2165'. SITP 750#.
5. POH w/ pkr.
5. RIH w/ cmt retr, set retr @ 2165'. Squeeze cmt perfs 2200-02' w/ 1500 gals Aqua fix & 500 sx Thixment. FP 700#. Ran temp survey. TOC @ 1550'.
6. Perf'd 5½" csg 1410-1412' w/2 JSPF. RIH w/ pkr, pmpd into 5½" x 8-5/8" annulus, hole in 8-5/8" csg @ head. POH w/ pkr.
7. RIH w/ cmt retr, set retr @ 1390'. Cmt squeeze perfs 1410-12' w/ 50 BFW, 410 sx pace setter lite plus 18% salt, 100 sx Cl "C" cmt w/1% latex, 2% CaCl₂. POH w/

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

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

SIGNED Peter W. Chesier TITLE Dist. Drlg. Supt. DATE 10/29/80(Org. Sgd.) PETER W. CHESIER
(This space for Federal or State office use)APPROVED BY _____ TITLE ACTING DISTRICT ENGINEER DATE DEC 10 1980

CONDITIONS OF APPROVAL, IF ANY:

Page #2
Form 9-331
Turner "A" #4
18-17S-31E
Eddy Co., N. M.

- tbgs. WOC. Water flow from 5½" x 8-5/8" annulus. Drld out cmt & cmt retr. Press tested squeeze job to 1500#, bled down to 200# in 10 mins. Acidized perfs w/400 gals 15% HCl.
8. RIH w/ pkr, set @ 1245'. Squeeze cmtd perfs 1410-12' w/ 75 sx Cl "C" cmt plus 1% LWL, 75 sx Cl "C" cmt w/ 2% CaCl₂. Water flow increased to 3 BPH. All cmt washed to pit.
 9. RIH w/ cmt retr, set @ 1372'. Cmtd thru retr w/ 75 bbl FW w/6% CaCl₂, 1 BFW, 500 gals Aqua fix, 1 BFW, 200 sx Cl "C" w/3% CaCl₂, 1 BFW, 500 gals Aqua fix, 1 BFW, 200 sx Cl "C" w/3% CaCl₂, 1 BFW, 500 gals Aqua fix, 1 BFW, 200 sx Cl "C" w/3% CaCl₂. No change in 5½" x 8-5/8" water flow.
 10. Resqueezed perfs 1410-12' w/ 72 BFW w/6% CaCl₂, 1 BFW, 1000 gals Aqua fix, 1 BFW, 350 sx Thiotropic cmt, 12 BFW. Water flow cont'd after squeeze job. Squeeze cmtd perfs 1410-12' w/ 1300 sx Cl "C" cont'g 18% salt, 5% KCL, had water flow back, cmtd w/ 100 sx 1.1% Calseal, Cl "C" cmt, 500 sx Cl "C" w/ 18% salt, 3% KCL, 200 sx Cl "C" w/.6% Halad-4, 0.3% CFR2, 10# salt, 5# KCL, 10% Cal-Seal, no cmt to surf w/tbgs displaced. Water back flwd thru tbgs & 8-5/8" annulus. Squeezed perfs 1410-12' w/1000 sx Cl "H" cont'g 6# salt, 0.3% CFR-2, 2% CaCl₂, dumped 30' cmt on top of retr. 5½" x 8-5/8" annulus flow stopped, trace of air bubbles after SION. Ran temp survey. TOC @ 1349'. Drld out cmt & cmt retr. Small water flow thru 5½" x 8-5/8" annulus after drlg out cmt & retr. Press tested squeeze job to 1500#, dropped to 1300# in 15 mins, remain @ 1300# for 15 mins, OK.
 11. Perf'd 5½" csg @ 589-591' w/ 4 JS. Set cmt retr @ 549'. Cmtd squeeze holes 589-591' w/200 sx Cl "H" cmt w/2% CaCl₂, 6# salt, 6# sd/sk, .3% CFR-2, circ cmt to surf. Dumped 10' cmt on retr. WOC. Drld out cmt & cmt retr @ 549'. Set pkr @ 519'. Press tested squeeze job to 1300#, dropped to 200# in 5 mins. Left shut-in 48 hrs.
 12. Set pkr @ 576', press tested perfs 589-591' w/ 1000# for 30 mins, OK. Press 2-3/8" x 5½" annulus w/ 300#, bled off in 15 mins w/ no back flow. Drld out cmt & retr parts 2156-2163', cmt to 2189'. Had water bubbles in cellar & outside cellar.
 13. RIH w/ RBP & pkr, set BP @ 2090'. Press tested squeeze holes @ 1410-1412' & 589-591', pmpd in each set perfs @ 1/16 BPM @ 1000#, SI 900#, communicated from 500' up inside & outside of cellar. Had water flow ARO 188 BPD over night. Found top 4' of 5½" csg leaking. Rec RBP @ 2090'. Ran bit & csg scraper, hit tight spot @ 2114'. POH w/ bit & scraper. RIH w/ csg swedge, swedged out csg @ 2087', tight spot @ 2156', swedged to 2166'. Had wtr flow ARO 2250 BPD, found top of cmt inside 5½" csg @ 2190'. RIH w/ basket & cut-rite shoe to 2190', cut 1' cmt. Rec RBP parts, 1' cmt core. RIH w/ pkr, set pkr @ 1682', had water flow below pkr, isolated wtr flow 2112-2187'. On 10/18/80 set pkr @ 122' & SI.
 14. POH w/ pkr. RIH w/ cmt retr. Set retr @ 1375'. Squeeze cmtd 1375-2191' w/ 200 sx Cl "C" w/18% salt, 100 sx Cl "C" w/ 2% CaCl₂, spot 1' cmt on top of retr. Spot 10 sx Cl "C" cmt w/2% CaCl₂ plug 1374-1274' (100'). Spot 714' heavy gelled mud. Set cmt retr @ 564', press perfs 589-591' to 900# for 30 mins, OK. Circ cmt to surface w/70 sx Cl "C" cmt w/2% CaCl₂. Filled 5½" csg to surface w/ 5 sx Cl "C" w/2% CaCl₂ cmt, cut off well-head, install regulation dry hole marker, fill cellar w/5 sx Cl "C" cmt cont'g 2% CaCl₂. Clean & level location per BLM stipulations. P & A eff: 10/21/80.
(P & A operations witnessed by Mr. Sonny White of U.S.G.S.)