

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 Wtr Injection Well ☒
2. NAME OF OPERATOR ARCO Oil & Gas Company
Division of Atlantic Richfield Company
3. ADDRESS OF OPERATOR
Box 1710, Hobbs, New Mexico 88240
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) 2310' FNL & 2310' FWL
AT SURFACE: as above
AT TOP PROD. INTERVAL: as above
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:

- ☐
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☒
☐
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☐
☐
☒

☒ Yates Inj. Zone only

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.)*

RU 9/17/80, inst BOP. POH w/tbg & pkr. Set plug in Mod D pkr @ 2826'. RIH w/pkr, set pkr @ 2800'. Tstd plug, OK. Reset pkr @ 2520'. Press csg to 1000# 30 mins OK. Set FBP @ 2520'. Squeezed Yates perms 2621-2771' w/150 sx Cl H LWL cmt, 150 sx Cl H cmt w/6# salt & 5# sd/sk & 200 sx Cl H cmt cont'g 2% CaCl. Squeeze press 2000#. POH w/pkr. Ran bit to TOC @ 2528'. Drld cmt 2528-2785'. Press tstd squeeze job to 1000#, bled to 500# immediately. Ran pkr & set @ 2487'. Pmpd 250 sx LWL cmt, 250 sx Latex w/2% CaCl. Pmpd 500 sx LWL cmt & 100 sx Latex cont'g 2% CaCl. POH w/pkr. Drld cmt 2500-2805'. Press up to 1000#, bled off to 750# immediately. RIH w/pkr, set @ 2487'. Set cmt retr @ 2550'. Resqueezed w/40 BBW, 3 BFW, 500 gals Flo-check, 200 sx Cl H cmt w/6# salt/sk & 2% CaCl, 3 BFW, 500 gals Flo-check, 3 BFW, 200 sx Cl H cmt w/6# salt/sk, 2% CaCl & 5# sd/sk, 100 sx Latex w/2% CaCl, 500 sx Cl H w/6# salt/sk, 5# sd/sk, 3% CaCl, 200 sx Cl H cmt w/6/10 of 1% Halad-4, 3/10 of 1% CFR-2, 6# salt/sk, 5# KCL, 10% EA2, 100 sx Cl H Latex w/2% CaCl. (cont'd on attached Page 2)

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

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

SIGNED George W. Schmidt TITLE Dist Drlg. Supt. DATE 12/5/80

(This space for Federal or State office use)

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

5. LEASE NM-10191	RECEIVED DEC 19 1980 O. C. D. ARTESIA, OFFICE
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
7. UNIT AGREEMENT NAME East Shugart Unit WF	
8. FARM OR LEASE NAME East Shugart Unit	
9. WELL NO. 15	
10. FIELD OR WILDCAT NAME Shugart Yates 7R Qn Grbg	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 34-18S-31E	
12. COUNTY OR PARISH Eddy	13. STATE N.M.
14. API NO.	
15. ELEVATIONS (SHOW DF, KDB, AND WD) 3627' GR	

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

U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

ACCEPTED FOR RECORD

DEC 17 1980

U.S. GEOLOGICAL SURVEY
ROSWell, NEW MEXICO

No squeeze, cleared perfs w/15 BW. Resqueeze thru cmt retr @ 2550' w/500 sx Cl H cmt w/6# salt & 5# sd/sk, 3% CaCl, 200 sx Cl H cmt w/6/10 of 1% Halad-4, 3/10 CFR-2, 6# salt/sk, 5# KCL, 10% Calseal, 100 sx Cl H cmt Latex & 2% CaCl, 200 sx Cl H cmt, 6# salt/sk, 3/10 of 1% CFR-2, 2% CaCl. WOC. DO cmt retr @ 2550' & cmt to 2800'. Press up to 1000#. Bled off immed to 750#, small wtr flow. RIH w/FBP, set @ 2487'. Broke perfs 2621-2771' w/250 gals 15% MCA acid. Pmpd 250 sx Cl H cmt, 8% gel, 125 sx Cl H cmt w/4% CaCl, 250 sx Cl H cmt w/8% gel, 125 sx Cl H cmt, 4% CaCl. POH w/pkr. WOC. DO cmt. No wtr flow. Pmpd into perfs @ 1100# - 3/4 BPM. Found hole in csg @ 2071'. RIH w/RBP, set @ 2485'. Spot sd on top of BP. RIH w/cmt retr, set @ 2020'. Pmpd 100 sx Cl C cmt, 3/10 of 1% Halad-4 followed by 100 sx Cl C cmt, 2% CaCl. SIP 1100#. RO 9 sx cmt. WOC. DO cmt 2020-2084'. Press tested to 1000# 30 mins, test failed. RIH w/pkr, squeezed holes 2070-71' w/200 sx Cl C cmt w/3/10 of 1% Halad-4 & 200 sx Cl C w/2% CaCl, 250 sx Cl C cont'g 8% gel, 1/2# Flocele & 150 sx Cl C w/5# salt/sk, 2% CaCl, 100 sx Cl C cmt w/5# salt/sk, 2% CaCl. WOC. Had 50 GPM wtr flow. POH w/pkr. RIH w/cmt retr, set retr @ 2030'. Squeeze cmtd holes 2070-71' w/400 sx Cl H cmt w/10% gel, 6# salt/sk, 1/2# flocele/sk & 300 sx Cl H cmt w/3/10 of 1% Halad-4, 3% CaCl followed by 500 sx Cl H w/18# salt/sk, 6% gel, 112 sx Cl C cmt w/4/1 Calseal, 5# salt/sk, 3# sd/sk & 3/10 of 1% Halad-9. POH w/tbg. WOC. Drld retr @ 2030' & cmt to 2102'. Press test squeeze job to 1000#. Bled off to 900# in 3 mins. No squeeze. Press would not drop below 900#. Had small flow of wtr. Drld cmt 2102-2133'. Found top of sd @ 2468'. RIH w/RBP, set @ 2108'. Press up on BP, no leak. Set pkr @ 1922'. Pmpd into perfs 2070-71' @ 1850# 1/2 BPM. POH w/pkr. RIH w/cmt retr, set retr @ 2011'. Cmtd perfs 2070-71' w/500 gals Flow check, 200 sx Cl H cmt, 8# salt/sk, 2% CaCl, 100 sx Cl H cmt w/4% CaCl, 100 sx Cl H cmt w/4% CaCl. Over flushed perfs w/3 BW. Squeezed thru retr @ 2011' w/300 sx Cl H cmt w/6# salt/sk, 3/10% CFR-2, 2% CaCl, 6# sd/sk followed by 150 sx Cl H cmt w/6/10% Halad-4, 3/10% CFR-2, 10# salt/sk, 5# KCL, 10% Cal Seal followed by 150 sx Cl H Latex, 2% CaCl. Squeeze press 2400#. RO 30 sx cmt. WOC. DO retr @ 2011' & cmt 2011-2230'. Press tested squeeze job to 1000# 1 hr, no bleed off. Opened csg, had small wtr flow. RIH w/tbg OE, spotted 50 sx Cl H cmt w/8/10 of 1% Halad-9, 1950-2109'. RIH w/pkr, set pkr @ 1850'. Press up to 1200#, no bleed off in 2 hrs. SI w/1200# on tbg. WOC. DO cmt. Press tested csg to 900#, bled back to 850# in 30 mins. Opened tbg & csg, small flow wtr. POH w/pkr. RIH w/FB pkr, set @ 2046'. Spot 250 gals 15% MFC acid over perfs 2070-71'. Pump into perfs w/1600#. POH w/pkr. RIH w/cmt retr, set retr @ 2014'. Squeeze d holes 2070-71' w/200 sx Cl C cmt w/2% CaCl. Max & final press 1500#. RO 5 sx cmt.WOC. DO retr @ 2014' & cmt to 2100'. Press up csg to 900#, bled back to 875# in 30 mins. Had small wtr flow. POH w/bit. RIH w/pkr, set pkr @ 2044'. Spot acid on perfs 2070-71', broke perfs to 1600#. POH w/FBP. RIH w/cmt retr, set retr @ 2044'. Pmpd 5 gals Kero, 25 sx gel w/15 bbls Kero, 200 sx Cl H cmt, 10# salt/sk, no squeeze. Pmpd 5 bbls Kero, 50 sx gel & Kero mix. RO 12 bbls. Spot 5 bbl Cl H cmt w/10# salt/sk. Press to 3500#. WOC. DO retr @ 2044', no cmt on top or below retr. Press tstd csg to 1000#, no leak. Left well open to pit, had small wtr flow on 10/28/80. RIH w/FBP, set @ 1920', pmpd 100 sx Cl H cmt, 200 sx Cl H w/ 2% CaCl, 400 sx Cl H w/8% gel, 200 sx Cl H w/4% CaCl. Press to 2600#, shut tbg valve. WOC. Rel tbg press, no wtr flow. Drld cmt & cmt retr @ 2083', cmt to 2425'. Press tstd csg on 11/1/80 to 1000# 30 mins OK. Op tbg on 11/3/80, had small wtr flow. Set pkr @ 2108'. Had leak tbg side, moved pkr to 2450', had leak tbg side. POH w/pkr. Rec RBP @ 2485'. RIH w/pkr, set pkr @ 2762'. Spot 100 gals 15% Reg acid, break perfs 2070-71'. POH w/pkr. RIH w/cmt retr, set retr @ 2604'. Pmpd 300 BBW, followed by 1000 gals Flo-check, 100 sx Cl C Neat, 3 equal stages of 1000 gals Flo-check, 150 sx Cl C Neat followed by 2000 gals Flo-check, 350 sx Cl C, 3% CaCl. Final 2500#. RO 2 bbls cmt slurry, WOC. DO retr @ 2604' & cmt to 2769'. Circ sd off Mod D @ 2826'. Press test to 1000# 30 mins OK. Bled press off, had small wtr flow. POH w/pkr. Ran CBL 2300-2808'. Perf'd 2763-64' in collar. Dumped 2 sx sd on top of DR plug in Mod D pkr @ 2826'. Top of sd @ 2808'. RIH w/pkr, set pkr @ 2760'. Pumped

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East Shugart Unit #15
12/5/80
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into perfs 2763-64' w/1½ BPM @ 3400#. POH w/pkr. Ran FB pkr, set pkr @ 2540'. Pmpd 200 sx C1 H w/2% CaCl. FSIP 2500#. POH w/pkr. WOC. DO cmt to 2775'. RIH w/pkr, set @ 2760'. Press csg to 900# 30 mins OK. POH w/pkr. Circ sd off DR plug, POH w/DR plug from pkr @ 2826'. RIH w/2-3/8" OD tbg, locator seal assy, set in Mod D pkr @ 2826'. Circ tbg/csg annulus w/corrosion inhibited fluid. Press tested csg to 900# OK. Connect up wellhead for single injection well. On 11/23/80 injected 185 BW @ 750# in 24 hrs into Queen perfs 3315-3811' & 3818-3832'.