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Form 9-331  
Dec. 1973

SEP 1 2 1979

Form Approved.  
Budget Bureau No. 42-R1424

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
C. C. C.  
ARTESIA, OFFICE

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 and Gas Company**  
Division of Atlantic Richfield Company
3. ADDRESS OF OPERATOR  
**Box 1710, Hobbs, New Mexico**
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: **1050' FNL & 100' FEL**  
AT TOP PROD. INTERVAL: Unit letter A  
AT TOTAL DEPTH:
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

5. LEASE  
**NM-025604**
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME  
**Empire Abo Pressure Maintenance Project**
8. FARM OR LEASE NAME  
**Empire Abo Unit "M"**
9. WELL NO.  
**123**
10. FIELD OR WILDCAT NAME  
**Empire Abo**
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
**10-18S-27E**
12. COUNTY OR PARISH  
**Eddy**
13. STATE  
**NM**
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)  
**553.2' GR**

- REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:
- |                      |                          |                          |
|----------------------|--------------------------|--------------------------|
| TEST WATER SHUT-OFF  | <input type="checkbox"/> | <input type="checkbox"/> |
| FRACTURE TREAT       | <input type="checkbox"/> | <input type="checkbox"/> |
| SHOOT OR ACIDIZE     | <input type="checkbox"/> | <input type="checkbox"/> |
| REPAIR WELL          | <input type="checkbox"/> | <input type="checkbox"/> |
| PULL OR ALTER CASING | <input type="checkbox"/> | <input type="checkbox"/> |
| MULTIPLE COMPLETE    | <input type="checkbox"/> | <input type="checkbox"/> |
| CHANGE ZONES         | <input type="checkbox"/> | <input type="checkbox"/> |
| ABANDON*             | <input type="checkbox"/> | <input type="checkbox"/> |
- (other) Log, Run Prod Csg, Cmt & Complete

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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.)\*

Fin drlg 7-7/8" hole to 6225' TD @ 11:30 AM 5/21/79. Ran GR-DLL w/RXO, GR-CNL-FDC log. RIH w/5 1/2" OD 15.5# K-55 csg, set @ 6224'. DV tool set @ 4013'. Cmt'd 5 1/2" OD csg 1st stage w/10 bbls SAM-5 spacer, 150 sx Hal light cmt w/1/4# flocele, 6# salt/sk, 2% CaCl followed by 200 sx 50/50 Poz, 2% Gel, 6# salt/sk, 6/10 of 1% Halad-9. Cmt did not circ. PD @ 2 PM 5/22/79. Cmt'd 2nd stage w/700 sx Hal Light cmt, 1/4# flocele, 6# salt/sk followed by 100 sx Cl C cmt w/6# salt/sk. Cmt did not circ. PD @ 5:30 PM 5/22/79. WOC 72 hrs. Drld DV tool @ 4010'. Pressure tested csg to 1500# for 30 mins OK. CO to 6170' PBD. Ran CBL, bond OK. TOC @ 500' FS. RIH w/2-3/8" OD to 6170'. Displ csg w/2% KCL wtr cont'g corrosion inhibitor. Spotted 15% MCA acid across interval perf'd. POH w/tbg. Perf'd Abo 6015-6030' w/2 JSPF = 30 .50" holes. RIH w/pkr on 2-3/8" tbg, set pkr @ 5921'. Acidized Abo perfs 6015-6030' w/150 gals 15% HCL-LSTNE-FE acid followed by 1000 gals 10# gelled CaCl wtr, 1500 gals gel LC, 1500 gals 15% HCL-LSTNE-FE acid, (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 *[Signature]* TITLE Dist. Drlg. Supt. DATE 9/5/79

(This space for Federal or State office use)

APPROVED BY *[Signature]* TITLE ACTING DISTRICT ENGINEER DATE SEP 11 1979

CONDITIONS OF APPROVAL, IF ANY:

Form 9-331

Empire Abo Unit "M" #123

9/5/79

flushed w/23 BLC. In 7 hrs flwd 46 BNO & 14 BLW. RIH w/cmt retr, set retr @ 5956'. Squeeze cmt w/125 sx Cl C cmt w/6/10% Halad-9 followed by 50 sx Cl C w/2% CaCl. RO 43 sx. WOC. DO cmt & cmt retr. Press tstd squeeze job to 1500# 30 mins OK. CO to 6170' PBD. Perf'd Abo 6050-70' w/2 JSPF. RIH w/pkr on 2-3/8" OD tbg, set pkr @ 6039'. Acidized Abo perfs 6050-70' w/150 gals 15% HCL-LSTNE-FE, 1000 gals 10# gelled CaCl, 1500 gals gelled LC, 1000 gals 15% HCL-LSTNE-FE, flushed w/24 BLC. In 8 hrs swbd 35 BO & 24 BW. Swbd & flwd 9 hrs, rec 64 BNO, 3 BLW. On 24 hr potential test 8/26/79 pmpd 110 BO, 3 BW & 95 MCFG, GOR 869:1. Final Report.

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**SEP 10 1979**

**GEOLOGICAL SURVEY  
ALBANY, NEW YORK**