STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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# OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-103
Revised 10-1-78

5a. Indicate Type of Lease: State [X] Fee [ ]

5. State Oil & Gas Lease No.
647-368
647-320 647-363

RECEIVED
SEP 7 1979
O. 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 "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL [X] GAS WELL [ ] OTHER-

7. Unit Agreement Name
Empire Abo Pressure Maintenance Project

2. Name of Operator
ARCO Oil and Gas Company
Division of Atlantic Richfield Company

8. Farm or Lease Name
Empire Abo Unit "G"

3. Address of Operator
Box 1710, Hobbs, New Mexico 88240

9. Well No.
351

4. Location of Well
UNIT LETTER J, 1850 FEET FROM THE South LINE AND 1650 FEET FROM THE East LINE, SECTION 34 TOWNSHIP 17S RANGE 28E NMPM.

10. Field and Pool, or Wildcat
Empire Abo

15. Elevation (Show whether DF, RT, GR, etc.)
3663.2' GL

12. County
Eddy

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

- PERFORM REMEDIAL WORK [ ]
- TEMPORARILY ABANDON [ ]
- PULL OR ALTER CASING [ ]
- PLUG AND ABANDON [ ]
- CHANGE PLANS [ ]
- OTHER [ ]

SUBSEQUENT REPORT OF:

- REMEDIAL WORK [ ]
- COMMENCE DRILLING OPNS. [ ]
- CASING TEST AND CEMENT JOB [ ]
- OTHER Repair Csg Leak [X]
- ALTERING CASING [ ]
- PLUG AND ABANDONMENT [ ]

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

RU 8/9/79, flwd back well, rel pressure, inst BOP & POH w/pkr, pump cavity & 2-3/8" tbg. RIH w/RBP, set BP @ 4516'. RIH w/pkr, set pkr, found csg leak @ 1695'. Set cmt retr @ 1645'. Pmpd into leak w/150 sx Cl C Thik-set cmt w/2% CaCl followed by 75 sx Cl C cmt w/2% CaCl. Leak developed in csg above retr. WOC. RIH w/bit, found TOC @ 1119', drld cmt to 1450'. RIH w/pkr, found csg leak @ 1350'. RIH w/cmt retr, set retr @ 1300'. Pmpd 150 sx Cl C Thik-set cmt cont'g 2% CaCl followed by 75 sx Cl C cmt cont'g 2% CaCl. RO 3½ sx cmt. WOC. Drld cmt 1295-1300', re 1300-1302', cmt 1302-1350', cmt stringers to 1417'. Pressure tested csg to 1800# 30 mins OK. DO retr @ 1645' & cmt to 1695'. Press tested csg to 1800#, fell to 300# in 4 mins. RIH w/RTTS p found csg leak @ 1695'. RIH w/cmt retr, set retr @ 1635'. Pmpd 100 sx Cl C cmt w/4% gel into leak @ 1695'. RO 20 sx cmt. Drld cmt & cmt retr to 1700'. Pressure tested squeeze job to 1800 30 mins OK. Washed sd off BP @ 4516'. POH w/RBP. RIH w/Lok-set pkr & pump to 6000'. On 24 hr potential test 8/28/79 pmpd 718 BO, 0 BW & 298 MCFG, 3000# hyd pump press. GOR 415:1. Final Report.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED [signature] TITLE Dist. Drlg. Supt. DATE 9/4/79

APPROVED BY W. A. Gressett TITLE SUPERVISOR, DISTRICT II DATE SEP 7 1979

CONDITIONS OF APPROVAL, IF ANY: