

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

JUL 18 1984

O. C. D.
ARTESIA, OFFICE

Form C-103
Revised 10-1-78

5. Indicate Type of Lease	State ☒	Fee ☐
6. State Oil & Gas Lease No.	OG-693	

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 ☒ 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 "K"
3. Address of Operator P. O. Box 1710, Hobbs, New Mexico 88240	9. Well No. 15
4. Location of Well UNIT LETTER J 1980 FEET FROM THE South LINE AND 1980 FEET FROM THE East LINE, SECTION 2 TOWNSHIP 18S RANGE 27E NMPM.	10. Field and Pool, or Wildcat Empire Abo
15. Elevation (Show whether DF, RT, GR, etc.) 3458' GR	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 ☐
OTHER ☐

PLUG AND ABANDON ☐
CHANGE PLANS ☐
OTHER ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐
COMMENCE DRILLING OPNS. ☐
CASING TEST AND CEMENT JOB ☐
OTHER Kick Off Out Csg, Drill Horizontal ☒
Drain Hole (same zone) ☐
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 3/30/84. Installed BOP & pressured 2-3/8" x 5 1/2" annulus to 6021' w/1000# for 30 mins OK. POH w/tbg & pkr. CO w/bit to 6074'. RIH w/pkr & set @ 6022' & est inj rate in Abo perms 6040-50' w/ 1 1/2 BPM @ 2000#. Acidized perms 6040-50' w/500 gals 15% HCL. Reset pkr @ 5900' & est inj rate in Abo perms 5970-6000' w/3.2 BPM @ 2000#. Cmt squeezed perms 6040-50' & 5970-6000' w/150 sx C1 H cmt. Rel pkr, PU to 5281' & RO 25 sx cmt, WOC. POH w/pkr. Ran bit & drld cmt 5550-6086'. Press tested squeeze job to 1000# for 30 mins OK. On 5/16/84 ran CBL, good bond 6080-5310'. On 5/21/84 RIH w/whipstock anchor pkr w/key locator. Set top of pkr @ 6032'. Ran Gyro-scope survey. TVD 6021.31', 4 deg. 43 mins N, 23.02 deg. W, 286.17'N, 105.11W. Key locator N76 deg.E. Ran orientation anchor assy w/key locator, latched dn, 2 deg/ft. Whipstock oriented S, 20E. Landed anchor assy in DW-1 pkr @ 6029.89' SLM. Whipstock zenith @ 6022.89'. Shared lug on whipstock. Displ hole w/EP mud system. Milled 4-13/16" hole in csg 6022.79-6026.23. POH w/mill. Ran concave mill & milled 6026.23'-6027.83'. POH w/mill. Ran bit & drld to 6058'. POH w/bit. Ran multi-shot magnetic survey @ each 1' interval 6056-6024'. Hole 74 deg.N, 60 deg.W @ 6056'. Survey @ 6027' (face of WS) 7 1/2 deg. Dev., N48 degW, 74 deg Dev @ 6056'. TVD 6038.03'. Ran bit & drld to 6063'. Ran magnetic multi-shot survey @ 6060', 82 1/2 deg. N, 52 deg.W. TVD 6038.71'. Displ 323.13'N, 21 deg 50'W. Ran pkr to 6015' & displ hole w/fresh wtr. Set pkr @ 6015' & tested 2-3/8 x 5 1/2" annulus to 500#, OK. Ran 1" coiled tbg & acidized Abo drainhole 6023-63' w/1000 gals 15% PAD acid (10% xylene). POH w/CT. On 6/3/84 treated Abo 6023-63' w/6000 gals Injectrol G. POH w/pkr. Ran mill tooth bit & washed 6015-6063'. (Cont'd on back of page)

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

SIGNED Robert C. Ballou TITLE Drllg Engr. DATE 7/12/84

APPROVED BY Leslie A. Clements TITLE Supervisor District II DATE JUL 20 1984
CONDITIONS OF APPROVAL, IF ANY:

Rec gelled injectrol. Circ hole w/FW. POH w/bit. RIH w/4-3/4" bit & displ hole w/EP mud system, drld to 6117', POH w/bit. Ran magnetic multi-shot survey 6063-6117', btm survey @ 6114', 94 deg.N, 57 deg.W. RIH w/bit & drld to 6183'. On 6/8/84 ran magnetic multishot survey 6119-6184'. Btm survey @ 6184', 96 deg. 15'N 56W, 6031.46' TVD, 368.03'N, 224.65'W. Lowered bit to 6183' & displ mud system w/2% KCL wtr. On 6/11/84 set Lok-set pkr @ 6017'. In 3 hrs swbd Abo fm 6123-83', rec 0 BNO, 35 BLW, show of gas. 6/12/84 swbd Abo fm 6023-83', rec 2 BNO, 37 BLW. 6/17/84 ran 1" coiled tbg & acidized 6123-83' w/3000 gals 60/40 xylene acid. POH w/coiled tbg. In 8 hrs swbd 6123-83', rec 26 BNO, 72 BLW, good show gas. Rel pkr & POH. RIH w/compl assy, BP set @ 6019', SN @ 5983'. Ran pump & rods. On 24 hr potential test 7/4/84 pmpd 83 BO, 9 BW, 862 MCFG, GOR 10,385:1. Final Report.