

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501
RECEIVED BY
JAN 10 1984
O. C. D.
ARTESIA, OFFICE

Form C-103
Revised 10-1-78

5a. Indicate Type of Lease State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No. 647

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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	7. Unit Agreement Name
2. Name of Operator ARCO Oil and Gas Company Division of Atlantic Richfield Company ✓	8. Farm or Lease Name Empire Abo Unit "J"
3. Address of Operator P. O. Box 1710, Hobbs, New Mexico 88240	9. Well No. 27
4. Location of Well UNIT LETTER <u>G</u> <u>1650</u> FEET FROM THE <u>North</u> LINE AND <u>2310</u> FEET FROM <u>East</u> LINE, SECTION <u>5</u> TOWNSHIP <u>18S</u> RANGE <u>28E</u> NMPM.	10. Field and Pool, or Wildcat Empire Abo
15. Elevation (Show whether DF, RT, GR, etc.) 3649' GR	12. County Eddy

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input checked="" type="checkbox"/> Kick off thru csg, drill horizontal drain hole - same zone	CASING TEST AND CEMENT JOBS <input type="checkbox"/>	OTHER <input type="checkbox"/>

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.

Propose to cut csg section 6190-6201' & drill horizontal drainhole to a projected northwesterly direction in order to recover additional oil reserves and reduce gas coning in accordance w/the provisions of Rule 14b of the special Rules and Regulations for the Empire Abo Pressure Maintenance Project.

1. RU, kill well, install BOP & POH w/compl assy.
2. RIH w/pkr on 2-3/8" tbg, set pkr @ 6220' & press test tbg/csg annulus to 1000#. Establish inj rate into perfs 6230-6270'. POH w/pkr. Set cmt retr @ 6215' & cmt squeeze perfs 6230-6270' w/C1 H cmt cont'g 2% CaCl₂. WOC. POH w/tbg. RU for drainhole drlg operations.
3. Run GR-CCL, set 5 1/2" Mod DW-1 whipstock anchor/pkr w/key locator on WL @ 6204'. Run Gyro survey tool & check orientation of key locator. Set whipstock orientation to drill N-70°-W.
4. RIH w/whipstock assy & land in pkr. Whipstock zenith @ 6196'. Shear lug on whipstock. Displ hole w/EP mud system. Cut hole in csg 6190-6201'. Drill 4-3/4" hole to 6236' MD building angle 2°/ft. Run Gyro survey in drainhole.
5. RIH w/pkr, set pkr above whipstock & displ DP w/2% KCL wtr, spot 500 gals acid (7.5% HCL, 7.5% xylene) in ODH. Acidize w/1000 gals acid. Treat ODH w/4000 gals Injectrol-G. SI 24 hrs. DO injectrol to 6236'.
6. Drill stabilized horizontal hole to obtain a 200' horizontal departure. Run multi-shot surveys.

(cont'd on back of page)

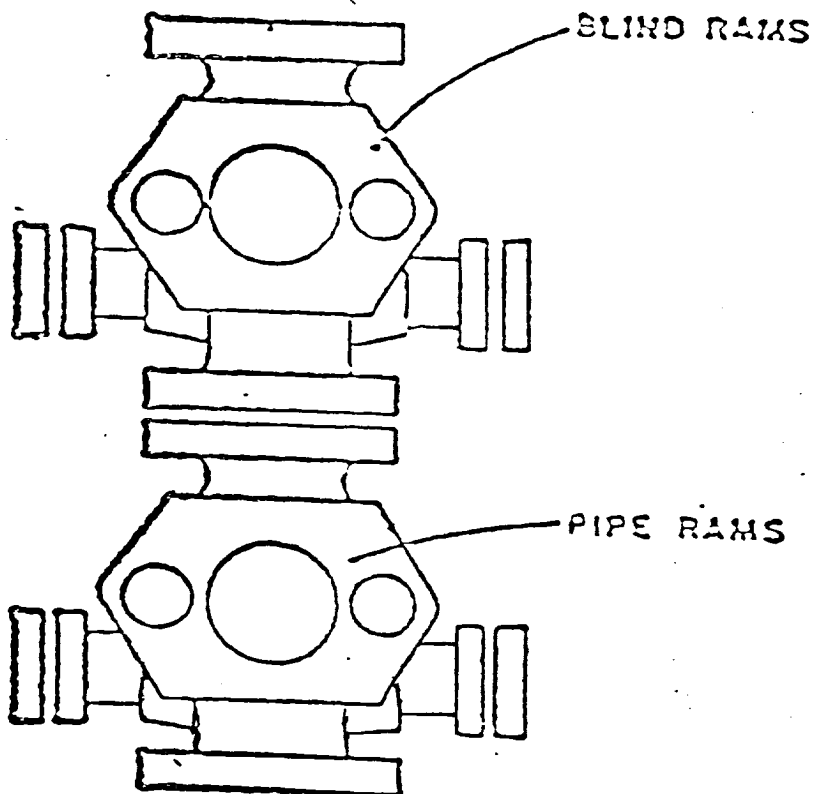
18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED Robert E. Ballou TITLE Drlg. Engr. DATE 1/04/84

APPROVED BY Estie A. Clements TITLE Supervisor District II DATE JAN 17 1984

CONDITIONS OF APPROVAL, IF ANY:

7. When drlg is completed, displace mud system w/2% KCL wtr, spot 2% KCL wtr w/3% ARCO F-651 in drain hole.
8. RIH w/pkr on 2-3/8" OD tbg, set pkr @ 6190'. Swab test & stimulate if necessary. Return to Production.



ARCO Oil & Gas Company

Division of Atlantic Richfield Company

Blow Out Preventer Program

Lease Name Empire Abo Unit "J"

Well No. 27

Location 1650' FNL & 2310' FEL
Sec. 5-18S-28E Eddy County

BOP to be tested when installed on well and will be maintained in good working condition during drilling. All wellhead fittings to be of sufficient pressure to operate in a safe manner.

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OIL CONSERVATION DIVISION

P. O. BOX 2080

SANTA FE, NEW MEXICO 87501

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Revised 10-1-78

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State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.
647

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8. Farm or Lease Name Empire Abo Unit "J"
9. Well No. 27
10. Field and Pool, or Wildcat Empire Abo
12. County Eddy

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

3649' GR

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 JOBS ☐
OTHER Squeeze Abo, Perf Lower in Reef, Acidize & Complete ☒
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.

Rig up, killed well, installed BOP, POH w/compl assy. On 5/22/79 ran cmt retr & set retr @ 6140'. Squeeze cmt d perfs 6158-6208' w/125 sx LWL cmt followed by 50 sx C1 C cmt w/2% CaCl RO 60 sx. WOC. Drld out cmt & cmt retr, drld & pushed CIBP to 6300'. RIH w/Mod R pkr & set @ 6218'. In 10 hrs swbd 5 BNO & 56 BLW. Installed pmpg equipment. On 24 hr test 10/1/79 pmpd 23 BO, 79 BW & 14 MCFG, GOR 609:1. 3200# HP. Final Report.

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

SIGNED <u>L. Dyke</u>	TITLE <u>Dist. Drlg. Supt.</u>	DATE <u>10/4/79</u>
APPROVED BY <u>W. A. Gussitt</u>	TITLE <u>SUPERVISOR, DISTRICT II</u>	DATE <u>OCT 10 1979</u>
CONDITIONS OF APPROVAL, IF ANY:		