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## OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-103  
Revised 10-1-

3a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
3. 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"/>		MAR 29 '88		7. Unit Agreement Name	
2. Name of Operator		ARCO Oil and Gas Company		8. Farm or Lease Name	
3. Address of Operator		P.O. Box 1610, Midland, Texas 79702		9. Well No.	
4. Location of Well		UNIT LETTER N 150 FEET FROM THE South LINE AND 1650 FEET FROM THE West LINE. SECTION 33 TOWNSHIP 17S RANGE 28E NMPM.		10. Field and Pool, or Wildcat	
15. Elevation (Show whether DF, RT, GR, etc.)		3659.8 GR		12. County	
				Eddy	

## 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 Recomplete same zone☒

## SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐  
 COMMENCE DRILLING OPNS. ☐  
 CASING TEST AND CEMENT JOBS ☐

ALTERING CASING ☐  
 PLUG AND ABANDONMENT ☐

OTHER ☐

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 abandon existing Empire Abo perms 6162-6176, come up hole and test Empire Abo interval 6128-6140. If the new interval is not productive, two additional intervals (6084-6102 & 6042-6050) have been chosen for possible testing.

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

SIGNED Ken W. LornellTITLE Engr. Tech. 915-688-5672DATE 3-28-88Original Signed By  
Mike WilliamsAPPROVED BY Oil & Gas Inspector  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE MAR 30 1988

WORKOVER PROCEDURE

DATE 1/14/88

WELL NO. & TYPE OF JOB: Empire Abo Unit #H-301 ARCO WI: 34.1407%

JOB TITLE: Plug Back to Upper ABO Interval

DRILLED & COMPLETED: 4/78 LAST WO: 3/81

FIELD: Empire Abo COUNTY: Eddy County, NM PREPARED BY: M.B. Smith

TD: 6378' PBD: 6228' DATUM: RKB DIST RKB TO GL: 11'

TUBINGHEAD: MAKE NA SIZE 7-1/16 PRESSURE RATING 3000 psi

CASING INFORMATION: SIZE WEIGHT GRADE SET @ SX CMT TOC

SURFACE: 8-5/8" 24 K-55 595' 350 Surface

PRODUCTION: 5-1/2" 15.5 K-55 6368' 475 4300' (CBL)

PRESENT PERFORATIONS 6162 - 6176 (2 JSPF)

TUBING SIZE: 2-3/8" WT: 4.7# GRD: J-55 THD: EUE 8R NO JTS: 202 @ 6198'

PACKER & MISC.: Last production test 3/9/87 produced 2 BO, 26 BW and 18  
MCFG in 24 hours. SWI pending evaluation.

PROCEDURE

1. Test anchors. MIRU PU. Check well for pressure and bleed off. Kill well as necessary with produced water. ND wellhead and NU BOP.
2. POH with tubing. Visually inspect tubing and hydrotest as necessary. TIH with a 4-3/4" bit and 5-1/2" casing scraper to 6160' and TOH.
3. RU WL unit and WL set a 5-1/2" CIBP at 6155'. Load the hole with produced water and pressure test the CIBP, 5-1/2" casing and BOP to 500 psi.
4. Perforate the Empire Abo with 2 JSPF from 6128' - 6140'. Correlate to Schlumberger Density/Neutron log dated 4/29/78. Note fluctuation in fluid level after perforating. If well goes on a vacuum proceed with swab testing prior to performing the acid job.
5. TIH with treating packer and 2-3/8" SN on 2-3/8" tubing to 6140'. Spot 100 gal acid across perforations and pull packer up hole to +6110'. Reverse 5 bbls water up tubing and set packer.

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Empire Abo Unit #H-301

Workover Procedure

6. Pressure annulus to 500 psi and acidize the Empire Abo perforations with 1200 gal of 15% NEFE HCL acid at 1-3 BPM. Flush to the bottom perforation with produced water. Maximum wellhead treating pressure should be held below 1000 psi.
7. SWI for 30 minutes and swab test.  
  
If the well is productive continue with step 11.  
  
If the well is not productive continue with step 8.
8. WL set a CIBP at 6120' and perforate the Empire Abo from 6084' to 6090' and from 6096' to 6102' w/2 JSPF. Spot acid and acidize as necessary with 1200 gal of 15% NEFE HCL acid at 1-3 BPM with a 1000 psi maximum wellhead treating pressure.
9. SWI for 30 minutes and swab test.  
  
If the well is productive continue with step 11.  
  
If the well is not productive continue with step 10.
10. WL set a CIBP at 6070' and perforate the Empire Abo from 6042' to 6050' w/2 JSPF. Spot acid and acidize as necessary with 800 gal of 15% NEFE HCL acid at 1-2 BPM with a 1000 psi maximum wellhead treating pressure.
11. POH with tubing and packer. TIH with completion assembly as per production department specifications. TOTPS.

NOTE: Be sure to notify the State when rigging up and prior to performing any plug back operations.

MBS  
KDK

Empire Abo Unit #H-301  
Current Wellbore Configuration

January 22, 1988  
ARCO WI 34.1407%

Location: 150' FSL & 1650' FWL, Sec 33-T17S-R28E, Eddy County, New Mexico  
TD: 6378' PBD: 6228' GL Elev: 3660' RKB: 11' Spud: 4/15/78

