

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

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OIL CONSERVATION DIVISION

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

FEB 01 '88

Form C-103  
Revised 10-1-79

O. C. D.  
ARTESIA OFFICE

5a. Indicate Type of Lease

State ☒ Fee ☐

5. State Oil & Gas Lease No.

647-368 647-320  
647-363

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 ✓	8. Farm or Lease Name Empire Abo Unit "F"
3. Address of Operator P.O. Box 1610, Midland, Texas 79702	9. Well No. 373
4. Location of Well UNIT LETTER <u>E</u> <u>1820</u> FEET FROM THE <u>North</u> LINE AND <u>150</u> FEET FROM THE <u>West</u> LINE, SECTION <u>35</u> TOWNSHIP <u>17S</u> RANGE <u>28E</u> NMPM.	10. Field and Pool, or Wildcat Empire Abo
15. Elevation (Show whether DF, RT, GR, etc.) 3679.3 GR	12. County Eddy

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data  
NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐  
OTHER Recomplete same zone ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐  
CASING TEST AND CEMENT JOBS ☐  
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 set CIBP, come up hole and recomplete Empire Abo.

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

SIGNED Kennell

TITLE Engr. Tech. 915-688-5672

DATE 1-27-88

Original Signed By  
Mike Williams

APPROVED BY

TITLE

DATE FEB 4 1988

CONDITIONS OF APPROVAL, IF ANY:

Oil & Gas Inspector

RECEIVED

WORKOVER PROCEDURE

FEB 01 '88

DATE 10/3/87

O. C. D.

WELL NO. & TYPE OF JOB: Empire Abo Unit #F-3787 RESIA, OFFICE ARCO WI: 34.1406%

JOB TITLE: Plug Back to Upper Abo Interval

DRILLED & COMPLETED: 2/79 LAST WO: 6/79

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

TD: 6350' PBD: 6301' DATUM: RKB DIST RKB TO GL: 10'

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	805'	400	Surface

PRODUCTION:	5-1/2"	15.5	K-55	6344'	850	1900' (CBL)
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PRESENT PERFORATIONS Empire Abo 6234-6242

TUBING SIZE: 2-3/8" WT: 4.7# GRD: J-55 THD: EUE 8R NO JTS: 200 @ 6203'

PACKER & MISC.: Baker Lok-set packer set at 6203' with fluid-pak cavity above packer. SI since 4/1/87. Last production test 4/1/87 was 5 BOPD, 646 BWPD and 7 MCFGPD. Hole between 1373 and 1403 squeezed during completion along with DV tool.

PROCEDURE

1. Test anchors. MIRU PU. Check well for pressure and bleed off. Kill well w/produced water as necessary. ND wellhead and NU BOP.
2. TOH with the tubing and packer. Visually inspect the 2-3/8" production tubing. If condition is questionable hydrotest to 3500 psi above the slips on next TIH.
3. WL set a 5-1/2" CIBP at 6180'. Load the hole with produced water and pressure test to 500 psi.
4. Perforate the Empire Abo from 6138' to 6144' with 2 JSPF. Correlate to Dresser Atlas Density/Neutron log dated 3/12/79. 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 6144'. Spot 100 gal acid across perforations and pull packer up hole to +6050'. Reverse 5 bbls water up tubing and set packer.
6. Pressure annulus to 500 psi and acidize the Empire Abo perforations with 800 gal 70/30 15% NEFE HCL acid and xylene at 1-3 BPM. Flush to the bottom perforation with produced water. Maximum treating pressure 1000 psi.

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Empire Abo Unit #F-373  
Workover Procedure

7. SWI for 30 minutes and swab test.

If the well is productive continue with step 10.

If the well is not productive continue with step 8.

8. WL set a CIBP at 6120' and perforate the Empire Abo from 6088 - 6094 w/2 JSPF. Spot acid and acidize as necessary with 750 gal of 15% NEFE HCL acid at 1-3 BPM with a 1000 psi maximum wellhead treating pressure. SI for 30 minutes and swab test.

If the well is productive continue with step 10.

If the well is not productive continue with step 9.

9. WL set a CIBP at 6080' and perforate the Empire Abo from 6050 - 6060 w/2 JSPF. Spot acid and acidize as necessary with 1000 gal of 15% NEFE HCL acid at 1-3 BPM with a 1000 psi maximum wellhead treating pressure. SI for 30 minutes and swab test.
10. POH with tubing and packer. TIH with completion assembly as per production department specifications. TOTPS.

MBS  
KOK  
Lor

Empire Abo Unit #F-373  
Current Wellbore Configuration

October 3, 1987  
ARCO WI 34.1406%

Location: 1820' FNL & 150' FWL, Sec 35-T17S-R28E, Eddy County, New Mexico  
TD: 6350' PBD: 6301' GL Elev: 3679' RKB: 10' Spud: 2/26/79

