

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

3a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
3. State Oil & Gas Lease No.	
E-7832	

SUNDRY NOTICES AND REPORTS ON WELLS

ARTESIA, OFFICE

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 "E"
3. Address of Operator P.O. Box 1610, Midland, Texas 79702	9. Well No. 36
4. Location of Well UNIT LETTER <u>A</u> <u>966.59</u> FEET FROM THE <u>North</u> LINE AND <u>660</u> FEET FROM THE <u>East</u> LINE, SECTION <u>34</u> TOWNSHIP <u>17S</u> RANGE <u>28E</u> NMPM.	10. Field and Pool, or Wildcat Empire Abo
11. Elevation (Show whether DF, RT, GR, etc.) 3673 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 <u>Recomplete same zone</u> <input checked="" type="checkbox"/>	CASING TEST AND CEMENT JOB <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 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 Ken W. Hosnell TITLE Engr. Tech. 915-688-5672 DATE 1-27-88

Original Signed By
Mike Williams

FEB 4 1988

APPROVED BY Oil & Gas Inspector TITLE Oil & Gas Inspector DATE 1-27-88

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED

FEB 01 '88

WORKOVER PROCEDURE

O. C. D.

DATE 10/3/87

WELL NO. & TYPE OF JOB: Empire Abo Unit #E-36 ARCO WI: 34.1406%

JOB TITLE: Plug Back to Upper Abo Interval

DRILLED & COMPLETED: 6/60 LAST WO: 11/78

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

TD: 6345' PBD: 6314' DATUM: RKB DIST RKB TO GL: 13'

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

CASING INFORMATION: SIZE WEIGHT GRADE SET @ SX CMT TOC
SURFACE: 8-5/8" 22.7 NA 887' 450 Surface

PRODUCTION: 4-1/2" 9.5 J-55 6345' 750 Reported
950' (TS)

PRESENT PERFORATIONS Empire Abo 6258-6288

TUBING SIZE: 2-3/8" WT: 4.7# GRD: J-55 THD: EUE 8R NO JTS: 189 @ 5928'

PACKER & MISC.: Guiberson KVL-30 Packer set at 5928' with 11,000 lbs
compression with a Kobe cavity on top. Last production test 3/13/87
was 1 BO, 445 BW and 122 MCFG. Well SI 3/31/87.

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. Pick up enough tubing to lower packer to the top of the perforations at 6258' and TOH with the tubing and packer. Visually inspect the tubing and hydrotest to 3500 psi above the slips on next trip in the hole.
3. WL set a 5-1/2" CIBP at 6220'. Load the hole with produced water and pressure test to 500 psi.
4. Perforate the Empire Abo from 6160' to 6174' with 2 JSPF. Correlate to Schlumberger LL/GR/N log dated 7/15/60. Note fluctuation in fluid level after perforating. If well goes on a vacuum proceed to swabbing operation prior to performing the acid job.
5. TIH with treating packer and 2-3/8" SN on 2-3/8" tubing to 6174'. Spot 100 gal acid across perforations and pull packer up hole to +6070'. Reverse 5 bbls water up tubing and set packer.
6. Pressure annulus to 500 psi and acidize the Empire Abo perforations with 1500 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.

Page 2

Empire Abo Unit #E-36
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 6140' and perforate the Empire Abo from 6104 - 6110 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 6090' and perforate the Empire Abo from 6067 - 6076 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
KDK


Empire Abo Unit #E-36
Current Wellbore Configuration

October 3, 1987
ARCO WI 34.14061

Location: 967' FNL & 660' FEL, Sec 34-T17S-R28E, Eddy County, New Mexico
TD: 6345' PBD: 6314' GL Elev: 3672' RKB: 13' Spud: 6/29/60

