

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

O. C. D.
ARTESIA OFFICE

Form C-103
Revised 10-1-78

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

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. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER	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. 363
4. Location of Well UNIT LETTER <u>A</u> <u>650</u> FEET FROM THE <u>North</u> LINE AND <u>120</u> FEET FROM <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
15. Elevation (Show whether DF, RT, GR, etc.) 3673.5 GR	12. County Eddy

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

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input checked="" type="checkbox"/> Recomplete same zone

SUBSEQUENT REPORT OF:

REMEDIAL WORK <input type="checkbox"/>	ABANDONING CASING <input type="checkbox"/>
COMMENCE DRILLING OPER. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
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 set CIBP, come up hole and recomplete same zone.

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

SIGNED Ken W. Gosnell TITLE Engr. Tech. 915-688-5672 DATE 1-27-88

Original Signed By
Mike Williams

APPROVED BY Oil & Gas Inspector
CONDITIONS OF APPROVAL, IF ANY:

TITLE Oil & Gas Inspector DATE FEB 4 1988

FEB 01 '88

WORKOVER PROCEDUREDATE 9/25/87 O. C. D.WELL NO. & TYPE OF JOB: Empire Abo Unit #E-363 ARCO WI: 34.1406% ARTESIA, OFFICEJOB TITLE: Test Existing Perfs/Plug Back and ReperforateDRILLED & COMPLETED: 11/79 LAST WO: 12/86FIELD: Empire Abo COUNTY: Eddy County, NM PREPARED BY: M.B. SmithTD: 6350' PBD: 6178' DATUM: RKB DIST RKB TO GL: 10.5'TUBINGHEAD: MAKE NA SIZE 7-1/16 PRESSURE RATING 3000 psi

CASING INFORMATION:	SIZE	WEIGHT	GRADE	SET @	SX CMT	TOC
SURFACE:	<u>8-5/8"</u>	<u>24</u>	<u>K-55</u>	<u>800'</u>	<u>450</u>	<u>Surface</u>
				<u>DV @ 3025'</u>	<u>1050</u>	<u>Surface</u>
PRODUCTION:	<u>5-1/2"</u>	<u>15.5</u>	<u>K-55</u>	<u>6350'</u>	<u>600</u>	<u>3025' (CBL)</u>

PRESENT PERFORATIONS Empire Abo 6150-6156 (14 Holes)TUBING SIZE: 2-3/8" WT: 4.7# GRD: J-55 THD: EUE 8R NO JTS: 195 @ 6118'

PACKER & MISC.: Baker Lok-set packer set at 6118' with 6000 lbs tension.
Fluid-Pac cavity above packer. SI since 4/1/87. Last production test
3/8/87 was 8 BOPD, 245 BWPD and 26 MCFGPD.

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. Swab test the current Empire Abo perforations and report influx of fluid to Midland.
3. Assuming the original perforations are noncommercial, POH with tubing and packer (visually inspect the tubing, Hydro-test to 3500 psi above the slips if the tubing condition is questionable). WL set a 5-1/2" CIBP at 6130'. Load the hole with produced water and pressure test to 500 psi.
4. Perforate the Empire Abo from 6090' to 6096' with 2 JSPF (14 holes). Correlate to Dresser Atlas Density/Neutron log dated 2/11/79. 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 6096'. Spot 100 gal acid across perforations and pull packer up hole to +6040'. 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% NEFB 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 #E-363

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 6080' and perforate the Empire Abo from 6052 - 6060 w/2 JSPF. Spot acid and Acidize as necessary with 800 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 6042' and perforate the Empire Abo from 6032 - 6038 w/2 JSPF. Spot acid and Acidize as necessary with 600 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
Q

Empire Abo Unit #E-363
Current Wellbore Configuration

September 2, 1987
ARCO WI 34.1406x

Location: 650' FNL & 120' FEL, Sec 34-T17S-R28E, Eddy County, New Mexico
TD: 6350' PBD: 6178' GL Elev: 3674' RKB: 10.5' Spud: 11/30/79

External Casing Packer at 421'

Squeeze holes 1544-46. Sqz'd
w/125 sx 2/79. Cmt circ to
surface.

DV tool at 3025'

8-5/8", 24#, K-55 casing set
at 800' in 12-1/4" hole and
cemented to surface w/450 sx.

195 joints 2-3/8", 4.7#, J-55
EUE 8R tubing w/Baker Lok-set
packer set at 6118'. Fluid -
Pac cavity above packer.

5-1/2" CIBP at 6178'

5-1/2" CIBP at 6240'

Empire Abo Perfs: 6150 - 6156

Empire Abo Perfs: 6198 - 6214

Empire Abo Perfs: 5920 - 6016

5-1/2", 15.5 casing set at
6350' 7-7/8" hole w/DV tool
at 3025' cmt'd as follows:
1st Stage: 600 sx. TOC @ 3025
2nd Stage: 1050 sx. Cmt Circ

