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OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-103
Revised 10-7

3a. Indicate Type of Lease

State ☒Fee ☐

3. 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 DEPTH. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

MAR 29 88

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. 362
4. Location of Well UNIT LETTER <u>A</u> <u>1200</u> FEET FROM THE <u>North</u> LINE AND <u>1200</u> FEET FROM THE <u>East</u> LINE, SECTION <u>34</u> TOWNSHIP <u>17S</u> RANGE <u>28E</u> N.M.P.M.	10. Field and Pool, or Wildcat Empire Abo
15. Elevation (Show whether DF, RT, GR, etc.) 3675.9 GR	12. County Eddy

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 ☐

PLUG AND ABANDON ☐

CHANGE PLANS ☐

OTHER Recomplete same zone ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

COMMENCE DRILLING OPS. ☐

CASING TEST AND CEMENT JOB ☐

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 the existing Empire Abo perfs (6230-6240), come up hole and test Empire Abo interval 6172-6178. If the new interval is not productive, two additional intervals (6124-6136 & 6062-6070) 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 Kenn W. Gornell

TITLE Engr. Tech. 915-688-5672

DATE 3-28-88

Original Signed By
Mike Williams

APPROVED BY Oil & Gas Inspector

TITLE _____

DATE MAR 30 1988

CONDITIONS OF APPROVAL, IF ANY

WORKOVER PROCEDURE

DATE 12/15/87

WELL NO. & TYPE OF JOB: Empire Abo Unit #E-362 ARCO WI: 34.1406%

JOB TITLE: Plug Back to Upper ABO Interval

DRILLED & COMPLETED: 3/79 LAST WO: 9/79

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

TD: 6350' PBD: 6303' 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:	<u>8-5/8"</u>	<u>24</u>	<u>K-55</u>	<u>750'</u>	<u>650</u>	<u>Surface</u>
				<u>DV @ 3800'</u>	<u>1450</u>	<u>Surface</u>
PRODUCTION:	<u>5-1/2"</u>	<u>15.5</u>	<u>J-55</u>	<u>6343'</u>	<u>700</u>	<u>Surface</u>

PRESENT PERFORATIONS 6230 - 6240 (2 JSPF)

TUBING SIZE: 2-3/8" WT: 4.7# GRD: J-55 THD: EUE 8R NO JTS: 200 @ 6175'

PACKER & MISC.: Has a Model "R" packer set at 6175' with a fluid pak
cavity on top. Last production test produced 0 BO, 549 BW and 17 MCFG
5/14/87. Well shut in 6/29/87 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. Release the packer and lower it to +6220'. POH with tubing and packer. Visually inspect tubing and hydrotest as necessary on next trip in hole.
3. RU WL unit and WL set a 5-1/2" CIBP at 6210'. 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 6172' - 6178'. Correlate to Dresser Atlas Density/Neutron log dated 3/14/79. 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 6178'. Spot 100 gal acid across perforations and pull packer up hole to +6080'. Reverse 5 bbls water up tubing and set packer.

Page 2

Empire Abo Unit #E-362
Workover Procedure

6. Pressure annulus to 500 psi and acidize the Empire Abo perforations with 750 gal of 70/30 15% NEFE HCL acid and Xylene at 1-3 BPM. Flush to the bottom perforation with produced water. Maximum wellhead treating pressure 1000 psi.
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 6160' and perforate the Empire Abo from 6124' to 6136' 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. 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 6110' and perforate the Empire Abo from 6062' to 6070' 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.
10. 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
FKK 

Empire Abo Unit #E-362
Current Wellbore Configuration

December 17, 19
ARCO WI 34.1406

Location: 1200' FNL & 1200' FEL, Sec 34-T17S-R28E, Eddy County, New Mexico
TD: 6350' PBD: 6303' GL Elev: 3676' RKB: 11' Spud: 3/2/79

