

## ENERGY AND MINERALS DEPARTMENT

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## OIL CONSERVATION DIVISION

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

Form C-103  
Revised 10-7-

5a. Indicate Type of Lease  
State ☒ Fee ☐

5. State Oil & Gas Lease No.

B-11538-7

## 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.)

RECEIVED  
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 "G"
3. Address of Operator P.O. Box 1610, Midland, Texas 79702	9. Well No. 361
4. Location of Well UNIT LETTER <u>I</u> , <u>2400</u> FEET FROM THE <u>South</u> LINE AND <u>300</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
15. Elevation (Show whether DF, RT, GR, etc.) 3670.5 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 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 abandon existing Empire Abo perfs 6230-6240, come up hole and test Empire Abo interval 6028-6042. If the new interval is not productive, an additional interval (5966-5994) has 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 Kenneth Gosnell TITLE Engr. Tech. 915-688-5672 DATE 3-28-88

Original Signed By  
Mike Williams

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

TITLE \_\_\_\_\_ DATE MAR 30 1988

WORKOVER PROCEDURE

DATE 12/23/87

WELL NO. & TYPE OF JOB: Empire Abo Unit #G-361 ARCO WI: 34.1407%

JOB TITLE: Plug Back to Upper ABO Interval

DRILLED & COMPLETED: 2/79 LAST WO: 4/79

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

TD: 6350' PBD: 6256' 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-55 800' 450 Surface

PRODUCTION: 5-1/2" 15.5 K-55 6350' 415 Surface

PRESENT PERFORATIONS 6230 - 6240 (2 JSPF)

TUBING SIZE: 2-3/8" WT: 4.7# GRD: J-55 THD: EUE 8R NO JTS: 196 @ 6137'

PACKER & MISC.: Has a Model "R" packer set at 6137' with a Kobe cavity  
on top. Last production test produced 2 BO, 395 BW and 17 MCFG 5/14/87  
Well shut in 6/25/87 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. 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 6100'. 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 6028' - 6030', 6034' to 6036' and 6040' - 6042'. Correlate to Schlumberger Density/Neutron log dated 2/27/79. 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 6042'. Spot 100 gal acid across perforations and pull packer up hole to +5940'. Reverse 5 bbls water up tubing and set packer.

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Empire Abo Unit #G-361  
Workover Procedure

6. Pressure annulus to 500 psi and acidize the Empire Abo perforations with 750 gal of 15% NEFE HCL acid at 1-2 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 9.  
  
If the well is not productive continue with step 8.
8. WL set a CIBP at 6020' and perforate the Empire Abo from 5966' to 5970' and from 5974' to 5994' w/2 JSPF. Spot acid and acidize as necessary with 2000 gal of 15% NEFE HCL acid at 1-2 BPM with a 1000 psi maximum wellhead treating pressure. SI for 30 minutes and swab test.
9. 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

OK

Empire Abo Unit #G-361  
Current Wellbore Configuration

December 23, 1987  
ARCO WI 34.1407%

Location: 2400' FSL & 300' FEL, Sec 34-T17S-R28E, Eddy County, New Mexico  
TD: 6350' PBD: 6256' GL Elev: 3671' RKB: 11' Spud: 2/12/79

