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to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Santa Fe	
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BLM	
Land Office	
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Operator	

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

RECEIVED
OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

JUN 27 89

O. C. D.

ARTESIA OFFICE

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. Type of Well:

OIL
WELL ☒

GAS
WELL ☐

OTHER

2. Name of Operator

ARCO OIL AND GAS COMPANY

3. Address of Operator

P. O. Box 1610, Midland, Texas 79702

4. Well Location

Unit Letter E : 2220 Feet From The North Line and 25 Feet From The West Line

Section 35 Township 17S Range 28E NMPM Eddy County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

3672.9 GR

WELL API NO.

30-015-21806

5. Indicate Type of Lease

STATE ☒

FEE ☐

6. State Oil & Gas Lease No.

B-11593

7. Lease Name or Unit Agreement Name

Empire Abo Unit "F"

8. Well No.

371

9. Pool name or Wildcat

Empire Abo

11.

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 JOB ☐

OTHER: ☐

12. 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 Abo perms 6186-6200 and test upper intervals in the Abo Zone.

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

SIGNATURE Ken W. Gosnell TITLE Engr. Tech. DATE 6-26-89

TYPE OR PRINT NAME Ken W. Gosnell 915/688-5672 TELEPHONE NO.

(This space for State Use)

ORIGINAL SIGNED BY
MIKE WILLIAMS
SUPERVISOR, DISTRICT II

APPROVED BY _____ TITLE _____ DATE JUN 28 1989

CONDITIONS OF APPROVAL, IF ANY:

WORKOVER PROCEDURE

DATE: 1-89

WELL NO. & TYPE OF JOB: EAU No. F-371 Abo Recompletion

DRILLED: 7-76 LAST WO: _____

FIELD: Abo COUNTY: Eddy, NM BY: Joel Talley

TD: 6400 PBD: 6363' DATUM: RKB DIST RKB TO GL: 10.5'

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>500</u>	<u>Surface</u>
INTERMEDIATE:						
PRODUCTION:	<u>5-1/2"</u>	<u>14&15.5#</u>	<u>K-55</u>	<u>6400'</u>	<u>2205</u>	<u>Surface</u>
LINER:						

CASING DETAIL: DV Tool @ 2587', 15.5# Csg (6400'-6200') & 14# (6200-Surf)

PRESENT PERFORATIONS: 6186'-6200' 2 JSPF

PROPOSED PERFORATIONS: 6136'-45', 6090'-6098', 6036'-44' & 5990'-97'

TUBING DATA:	SIZE <u>2-7/8"</u>	WT. <u>6.5</u>	GRADE <u>J-55</u>	THD. <u>8rd</u>	BTMD <u>6299'</u>
	NO. OF JTS. <u>197</u>	MISC. <u>TAC @ 6160 w/ 16,000# tension</u>			

PACKER & MISC.: 194 Jts to TAC

PROCEDURE

1. Notify NMOCD Commission of intention to recomplete the well.
2. Test anchors. MIRUPU. Check well for pressure and bleed off.
3. POH w/ 2-7/8" production tbkg. Visually inspect the tbkg for workover use.
4. RIH w/ 4.75" GR to PBD @ 6363'. Set CIBP on WL @ 6170'. Load & test csg to 500 psi w/ produced water for 15 minutes. If csg does not hold, RIH w/ pkr and isolate leak for squeeze.
5. Perforate Abo with 2 JSPF f/ 6136'-6145' (correlate with Dresser Atlas GR-CNL dated 7-6-76). If well goes on vacuum swab prior to acidizing.
6. RIH w/ treating Pkr and 2-7/8" production tbkg, hydro-testing tbkg to 4000 psi, to 6145'. Spot 100 gals across perms and pull packer to 6030'. Reverse 5 bbls water up tbkg and set pkr.

7. Pressure annulus to 500 psi and acidize perfs w/ 1000 gals 15% NEFE HCL acid at 1 BPM. Flush to btm perf w/ produced water. Maximum treating pressure is 1000 psi.
8. SI for 30 minutes and record pressure every 10 minutes. Swab and evaluate.

If zone is productive continue with step 13.
If zone is not productive continue with step 9.
9. POH w/ tbg & pkr. WL set CIBP @ 6120' & test to 500 psi. Perf Abo f/ 6090'-6098' w/ 2 JSPF. Acidize w/ 1000 gals 15% NEFE HCL and evaluate as in steps 5,6,7 & 8.

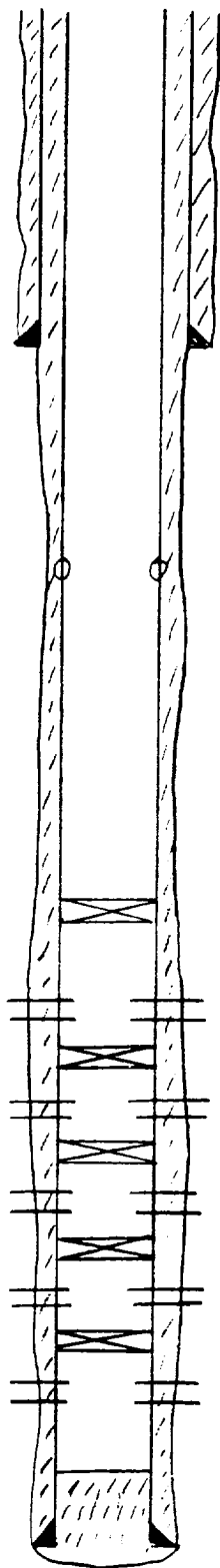
If zone is productive continue with step 13.
If zone is not productive continue with step 10.
10. POH w/ tbg & pkr. WL set CIBP @ 6070' & test to 500 psi. Perf Abo f/ 6036'-6044' w/ 2 JSPF. Acidize w/ 1000 gals 15% NEFE HCL and evaluate as in steps 5,6,7 & 8.

If zone is productive continue with step 13.
If zone is not productive continue with step 11.
11. POH w/ tbg & pkr. Set CIBP @ 6030' & test to 500 psi. Perf Abo f/ 5990'-5997'. Acidize w/ 1000 gals 15% NEFE HCL and evaluate as in steps 5,6,7 & 8.

If zone is productive continue with step 13.
If zone is not productive continue with step 12.
12. POH w tbg & pkr. Set CIBP @ 5888' (Top Abo Reef @ 5888') on WL to TA well pending Engineering Evaluation.
13. POH w/ tbg & pkr. RIH w/ completion assembly as per Production Department specifications. TOTP.

General Purpose Worksheet

Subject	Proposed Wellbore Diagram	Page No	Of
File	EAU F-371	By	JOT
		Date	



Drilled 7-76 RKB 10.5'

8 5/8" 2 4# K-55 csg @ 750'. Cmt'd w/ 500sx cmt. TOC @ surface

DV tool @ 2587'

Top Abo Rec- @ 5888

Fourth Objective - Perf 5990'-5997' w/ 2 JSF
If unproductive set CIBP @ 5888' (Top Abo 5888')

Third Objective - Perf 6036'-6044' w/ 2 JSF
If unproductive set CIBP @ 6030

Second Objective - Perf 6090'-6098' w/ 2 JSF
If unproductive set CIBP @ 6070

First Objective - Perf 6136'-6145' w/ 2 JSF
If unproductive set CIBP @ 6120

Set CIBP @ 6170

Current Perfs 6186'-6200' w/ 2 JSF

PBD 63 63'

5 1/2" 14# & 15.5# J-55 csg @ 6400'. Cmt'd w/ 2205 sx cmt in 2 stages. TOC - surface

TD 6400'