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State of New Mexico  
RECEIVED Energy, Minerals and Natural Resources Department

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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

OIL CONSERVATION DIVISION  
JUN 05 '89 P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

O. C. D.  
ARTESIA, OFFICE

WELL API NO.

30-015-22786

5. Indicate Type of Lease  
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.  
8-11593-B

7. Lease Name or Unit Agreement Name

Empire Abo Unit "F"

8. Well No.  
376

9. Pool name or Wildcat  
Empire Abo

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 : 1335 Feet From The North Line and 700 Feet From The West Line  
Section 35 Township 17S Range 28E NMPM Eddy County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)  
3685.3 GR

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 6087-6096 and test upper zones in the Abo.

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 6-1-89  
TYPE OR PRINT NAME Ken W. Gosnell 915/688-5672 TELEPHONE NO.

(This space for State Use)

APPROVED BY ORIGINAL SIGNED BY  
ALICE WILLIAMS TITLE SUPERVISOR, DISTRICT II DATE JUN 5 1989  
CONDITIONS OF APPROVAL, IF ANY:

# WORKOVER PROCEDURE

DATE: 2-89

WELL NO. & TYPE OF JOB: EAU No. F-376 Abo Recompletion

DRILLED: 4-77 LAST WO: 4-87 Completed 6087'-6096'

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

TD: 6357' PBD: CIBP @ 6160' DATUM: RKB DIST RKB TO GL: 11'

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>500</u>	<u>Surface</u>
INTERMEDIATE:						
PRODUCTION:	<u>5-1/2"</u>	<u>15.5#</u>	<u>K-55</u>	<u>6357'</u>	<u>1900</u>	<u>Surface</u>
LINER:						

CASING DETAIL: DV Tool @ 3002'

PRESENT PERFORATIONS: 6087'-6096' w/ 2 JSPF

PROPOSED PERFORATIONS: 6042'-50' & 5994' w/ 2 JSPF

TUBING DATA: SIZE 2-3/8" WT. 4.7 GRADE J-55 THD. 8rd BTMD 6125'  
NO. OF JTS. 196 MISC. Model 'B' TAC @ 5994'

PACKER & MISC.: 192 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/ 2-3/8" production tbg. Visually inspect the tbg for workover use.
4. RIH w/ 4.75" GR to CIBP @ 6160'. Set CIBP on WL @ 6080'. 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/ 6042'-6050' (correlate with Shlumberger GR-CNL/FDL dated 2-9-79). If well goes on vacuum swab prior to acidizing.
6. RIH w/ treating Pkr and 2-3/8" production tbg, hydro-testing tbg to 4000 psi, to 6050'. Spot 100 gals across perfs and pull packer to 5950'. Reverse 5 bbls water up tbg 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 11.

If zone is not productive continue with step 9.

9. POH w/ tbg & pkr. WL set CIBP @ 6035' & test to 500 psi. Perf Abo f/ 5994'6002' w/ 2 JSPF. Spot 100 gals acid, set Pkr @ 5900', Acidize w/ 1000 gals 15% NEFE HCL and evaluate as in steps 5,6,7 & 8.

If zone is productive continue with step 11.

If zone is not productive continue with step 10.

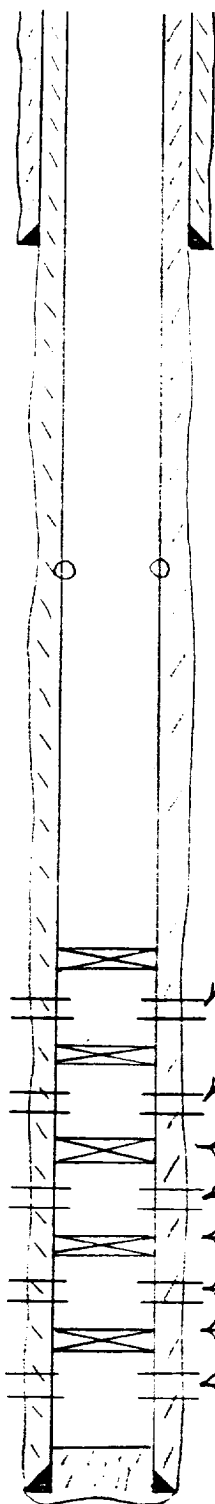
10. POH w tbg & pkr. Set CIBP @ 5970' on WL to TA well pending Engineering Evaluation.

11. POH w/ tbg & pkr. RIH w/ completion assembly as per Production Department specifications. TOTP.

# General Purpose Worksheet

Subject	Wellbore Diagram	Page No	2
File	EAV F-376	By	JCT
		Date	--9

Drilled 1979 SB 11



2 1/2" 24# K-55 Csg @ 800'  
Cmt'd w/ 500sx TOL surface

2 3/8" J-55 47# EVE 71d tbg  
EN @ 6125' 196Jts, 192Jts to TAC

DV tool @ 3002'

Top of Feet @ 5878'

Second Objective - Perf 5994'-6002' w/ 2JSPI  
If unproductive set CIBP @ 5970'

First Objective - Perf 6042'-6050 w/ 2JSPI  
If unproductive set CIBP @ 6035'

Set CIBP @ 6080'

Perfs 6087'-6096'

CIBP @ 6160'

Perfs 6174'-6181'

CIBP @ 6215'

Perfs 6230'-6240'

PBD @ 6302'

TD 6357'

5 1/2" 15.5# K-55 Csg @ 6357'

Cmt'd w/ 1999sx TOL surface