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State of New Mexico
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

JUN 27 '89

ARTESIA OFFICE

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL API NO. 30-015-01715
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. E-7116
7. Lease Name or Unit Agreement Name Empire Abo Unit "F"
8. Well No. 35
9. Pool name or Wildcat Empire Abo
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3665 GR

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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	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 G : 1965.68 Feet From The East Line and 1938.54 Feet From The North Line Section 34 Township 17S Range 28E NMPM Eddy County

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 abandoned existing Abo perfs 6228-6242 & 6250-6276 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-35 Abo Recompletion

DRILLED: 6-60 LAST WO: 1988

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

TD: 6336 PBD: 6301' DATUM: RKB DIST RKB TO GL: 10.5'

CASING INFORMATION:	SIZE	WEIGHT	GRADE	SET @	SX CMT	TOC
SURFACE:	<u>8-5/8"</u>	<u>22.7#</u>	<u> </u>	<u>1000'</u>	<u>650</u>	<u>Surface</u>
INTERMEDIATE:	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
PRODUCTION:	<u>4-1/2"</u>	<u>9.5#</u>	<u>J-55</u>	<u>6336'</u>	<u>850</u>	<u>1350'</u>
LINER:	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
CASING DETAIL:	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

PRESENT PERFORATIONS: 6228'-6242' & 6250'-6276' w/ 2 JSPF

PROPOSED PERFORATIONS: 6159'-70' & 6176'-82', 6120'-30', 6054'-64', & 5986'
- 6000'.

TUBING DATA:	SIZE <u>2-3/8"</u>	WT. <u>4.7</u>	GRADE <u>J-55</u>	THD. <u>8rd</u>	BTMD <u>6285'</u>
	NO. OF JTS. <u>195</u>	MISC. <u>TAC @ 6285 w/ 15,000# tension</u>			

PACKER & MISC.: 192 Jts to TAC

PROCEDURE

1. Notify NMOC 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 tbq. Visually inspect the tbq for workover use.
4. RIH w/ 3.875" GR to PBD @ 6301'. Set CIBP on WL @ 6210'. 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/ 6159'-70' & 6176'-82' (correlate with Schlumberger GR-N dated 6-26-60). If well goes on vacuum swab prior to acidizing.
6. RIH w/ treating Pkr and 2-3/8" production tbq, hydro-testing tbq to 4000 psi, to 6182'. Spot 100 gals across perfs and pull packer to 6050'. Reverse 5 bbls water up tbq and set pkr.

7. Pressure annulus to 500 psi and acidize perfs w/ 1500 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 @ 6150' & test to 500 psi. Perf Abo f/ 6120'-6130' w/ 2 JSPF. Acidize w/ 1500 gals 15% NEFE HCL and evaluate as in steps 5,6,7 & 8.

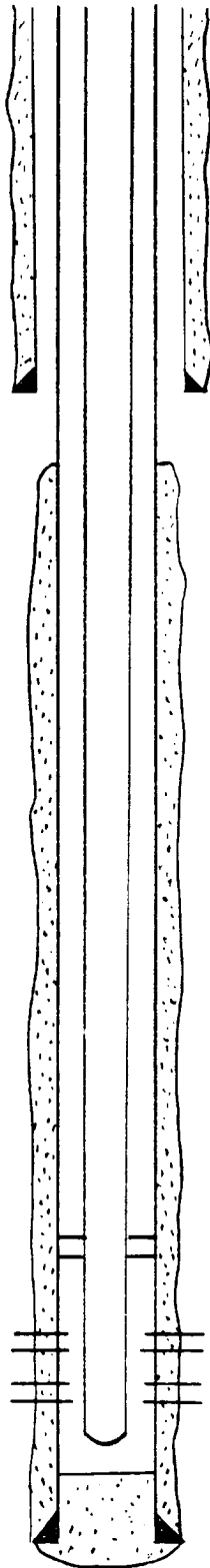
If zone is productive continue with step 13.
If zone is not productive continue with step 10.
10. POH w/ tbg & pkr. WL set CIBP @ 6100' & test to 500 psi. Perf Abo f/ 6054'-6064' w/ 2 JSPF. Acidize w/ 1500 gals 15% NEFE HCL and evaluate as in steps 5,6,7 & 8.

If zone is productive continue with step 13.
If zone is not productive continue with step 11.
11. POH w/ tbg & pkr. Set CIBP @ 5786' & test to 500 psi. Perf Abo f/ 5986'-6000'. Acidize w/ 1500 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 @ 5786' (Top Abo Reef @ 5786') 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	Current Wellbore Diagram		Page No	01
File	EAU F-35	By	JDT	Date 1-89



Drilled 5-60 RKB 10.5'

8 5/8" 22.7# CSG @ 1000' cmt'd w/ 650sx

TOC 4 1/2" CSG @ 1350'

Top of Abo Reef @ 5786'

TAC @ 6167' (192 Jt's FS) Set w/ 15 pts. Tension

Perfs 6228'-6242' 2 JSPF

Perfs 6250'-6276' 2 JSPF

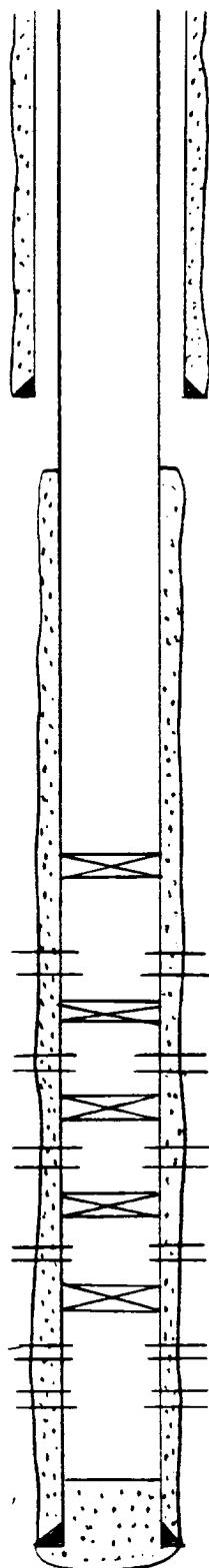
PBD 6301'

TO 6336'

4 1/2" 9.5# J-55 CSG @ 6336' cmt'd w/ 850sx

General Purpose Worksheet

Subject: <u>Proposed Wellbore Drilling</u>	Page No: <u>21</u>
File: <u>EAU - 35</u>	By: <u>JDT</u> Date: <u>1-89</u>



Drilled 4-60

3 1/2" @ 1000'

TOC @ 1350'

Fourth Objective - Perf 5986' - 6000' w/2 JSPF

If unproductive Set CIBP @ 5786' (Top Abo)

Third Objective - Perf 6054' - 6064' w/2 JSPF

If unproductive Set CIBP @ 6040'

Second Objective - Perf 6120' - 6130' w/2 JSPF

If unproductive Set CIBP @ 6100'

First Objective - Perf 6159' - 70' + 6176' - 82' w/2 JSPF

If unproductive Set CIBP @ 6150'

Set CIBP @ 6210'

Perfs 6228' - 6242' 2 JSPF

Perfs 6250' - 6276' 2 JSPF

TD 6336'

4 1/2" @ 6336'