

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

clst

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

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO.
30-015-01218

5. Indicate Type of Lease
STATE FEE

6. State Oil & Gas Lease No.
B-752

7. Lease Name or Unit Agreement Name
EMPIRE ABO UNIT "H"

8. Well No.
18

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 Permian

3. Address of Operator
P.O. BOX 1610, MIDLAND, TX 79702

4. Well Location
Init Letter **N** : **330** Feet From The **SOUTH** Line and **2310** Feet From The **WEST** Line
Section **36** Township **17S** Range **27E** NMPM **EDDY** County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)
3644 KB

11. 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"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
OTHER: DEEPEN TO TEST LOWER ABO <input checked="" type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
	CASING TEST AND CEMENT JOB <input type="checkbox"/>
	OTHER: <input type="checkbox"/>

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 DEEPEN 1075' & TEST LOWER ABO AS FOLLOWS:

1. DRILL OUT PLUGS TO 5750.
2. SIZE ABO PERFS 5725-5750.
3. PRESS TEST CSG TO 800#.
4. DEEPEN TO 7000'.
5. RUN 3 1/2" 9.3# LINER & CMT.
6. PERF, TREAT & TEST LOWER ABO.

RECEIVED
APR 10 1996
OIL CON. DIV.
DIST. 2

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

SIGNATURE *Ken W. Gosnell* TITLE AGENT DATE 04-09-95

TYPE OR PRINT NAME KEN W. GOSNELL TELEPHONE NO. 915 688-5672

(This space for State Use)

ORIGINAL SIGNED BY TIM W. GUM
DISTRICT II SUPERVISOR

APPROVE BY _____ TITLE _____ DATE **APR 11 1996**

CONDITIONS OF APPROVAL, IF ANY:

WORKOVER PROCEDURE

DATE: December 13, 1995

WELL & JOB: Empire Abo Unit H-18

DRILLED: 1960

LAST WORKOVER: 9/90 Eliminate Communication Behind Prod Casing

FIELD: Abo

COUNTY: Eddy, NM

BY: W. C. Heard

TD: 5925'

PBD: 813'

DATUM: 12' KB

CASING:	SIZE	WEIGHT	GRADE	SET @	SX CMT	TOC
SURFACE:	8-5/8"	24#		970'	500	surf-circ
PROD:	5-1/2"	15.5#		5925'	250	surf-circ last WO

PERFORATIONS: Abo 5725-5750' open

TUBING: NA SIZE: WEIGHT: GRADE: THREAD: JOINTS: BTM'D @
MISC:

HISTORY AND BACKGROUND: This well was drilled and completed in 1960 as an Abo producer. In 1976, the well was shut in due to high GOR. In May, 1990, it was temporarily abandoned - when CA pulled, packer mandrel parted leaving packer in hole. Packer tagged at 5843' with bit and scraper. Set CIBP at ? - would not test. Set second CIBP at 5701'. Tested casing 5701' to surface to 500 psi. According to records first CIBP set in "top perms" but no exact depth given. In September, 1990, a CBL was run and indicated TOC behind the 5-1/2" production casing at 4430' with a possible bridge at 3600'. The 5-1/2" was perforated at 3540' and cemented with 850 sacks using a CR at 3433'. Circulation was lost during displacement bringing TOC to 982'. The 5-1/2" was perforated at 900' and cemented with 206 sacks using a CR at 813'. Cement circulated. Well left in TA status.

SCOPE OF WORK: Re-enter well, deepen to 6800', log and test Lower Abo.

PROCEDURE

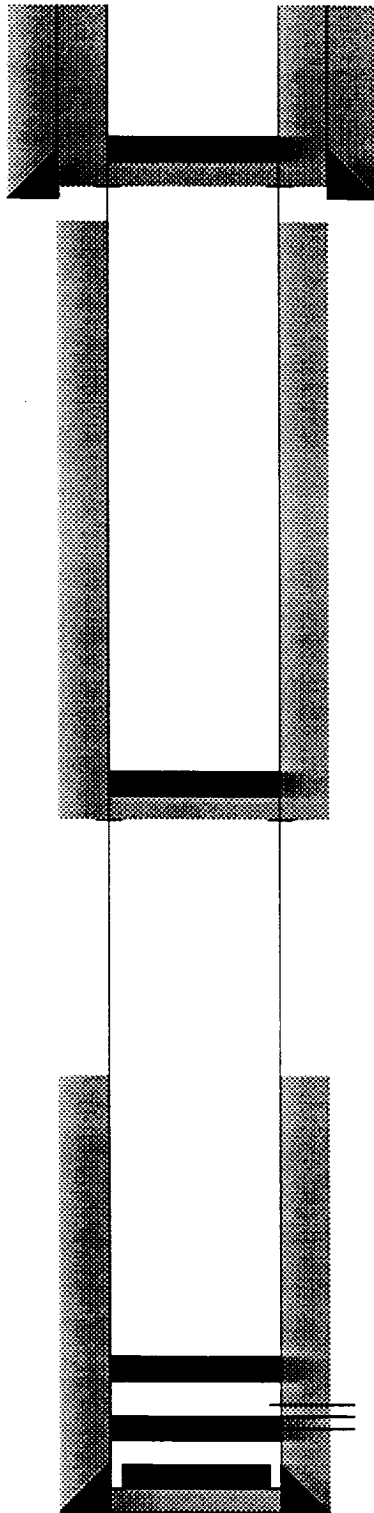
1. MIRU PU. Install wellhead and BOP.
2. TIH with bit and WS. RU reverse unit. DO/CO CR and cement from 813-900'. Test 5-1/2" casing to 800 psi.
3. TIH with bit. DO/CO CR and cement from 3433-3540'. Test 5-1/2" casing to 800 psi. POH.
4. TIH with shoe and 1 joint wash pipe. MO CIBP's at 5701' and 5730' (approximate). FIH and tag packer at 5843'. MO packer. POH.
5. Fish packer as necessary.
6. TIH with service packer and set at 5500'. Establish IR and pressure into Abo perms 5725-5750'. Cemen same as indicated by injection. Release packer and POH.
7. TIH with bit and DC's. DO cement. Test squeeze to 800 psi. DO shoe and new formation to 7000'. Circulate hole clean. POH.
8. RU WL. Run OH logs as per Engineering and Geology. RD WL.

9. Run 3-1/2" liner as follows (bottom to top):
 - 3-1/2" set shoe
 - 1 joint 3-1/2" 9.3# J-55
 - 3-1/2" float collar
 - 1040' + 3-1/2" 9.3# J-55
 - running/setting tool
10. Cement liner with 100 sacks Class H. Release from liner and POH.
11. TIH with bit. CO to TOL and test liner lap to 800 psi. POH.
12. TIH with 2-3/4" blade bit. CO liner and test to 800 psi. POH.
13. RU WL. Run GR-CCL from PBD-TOL. Perf Abo as per Engineering. RD WL.
14. TIH with packer. Acidize Abo as per Engineering. Test. Release packer and POH.
15. Run CA as per Production Department recommendation.

W. C. Heard

J. E. Shields 12/14/95
J. E. Shields

**EMPIRE ABO UNIT H-18
PRESENT STATUS**



8-5/8" 24# casing at 970' with 500 sacks. TOC at surface - circulated

Perf'd 5-1/2" casing at 900' and cemented with 206 sx & CR @ 813'. TOC at surface - circulated.

Perf'd 5-1/2" casing at 3540' and cemented with 850 sx & CR @ 3433'. TOC at 982' - TS.

-430'

CIBP's @ 5701' & ? (approx 5730'). Retrievable production packer @ 5843' - tagged w/bit - w/mandrel parted.

Abo perms 5725-5750'

5-1/2" 15.5# casing at 5925' with 250 sacks. TOC at 4430' - CBL.

TD 5925', PBD 813'

**EMPIRE ABO UNIT H-18
PROPOSED COMPLETION**

