

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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.)		WELL API NO. 30-015-01551
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator Apache Corporation		6. State Oil & Gas Lease No. 647
3. Address of Operator 303 Veterans Airpark Lane, Suite 1000 Midland, TX 79705		7. Lease Name or Unit Agreement Name Empire Abo Unit (309164)
4. Well Location Unit Letter <u>M</u> : <u>500</u> feet from the <u>South</u> line and <u>820</u> feet from the <u>West</u> line Section <u>26</u> Township <u>17S</u> Range <u>28E</u> NMPM County <u>Eddy</u>		8. Well Number <u>037</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) <u>3684' GL</u>		9. OGRID Number 873
		10. Pool name or Wildcat Empire; Abo (22040)

12. 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 checked="" type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Apache would like to perform the following work:

Producing Interval: 5,745-6,122'

Objective: TA Wellbore. Currently performing geological and petrophysical studies to determine feasibility for recompletion. Evaluating wellbore to bring it back to production.

Procedure:

1. POOH with rods and pump
2. Set a CIBP @ 5,700' and dump bail 35' of cmt
3. Circulate fluid and pressure test casing to 500 psi
4. Record the test on a chart and submit to OCD for approval

Spud Date:

Rig Release Date:

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

SIGNATURE

Isabel Hudson

TITLE Regulatory Analyst

DATE 01/09/2017

Type or print name Isabel Hudson

E-mail address: isabel.hudson@apachecorp.com

PHONE: (432) 818-1142

For State Use Only

APPROVED BY:

Boyd

TITLE

DTI SUPERVISOR

DATE

09 JAN 17

Conditions of Approval (if any):

Signature

January 6, 2017

Empire ABO Unit # D-37

Legal Name: Empire ABO Unit #037

API # 30-015-01551

Eddy County, NM

Producing Interval: 5,745-6,122'

Objective: TA Wellbore. Currently performing geological and petrophysical studies to determine feasibility for recompletion. Evaluating wellbore to bring it back to production.

Procedure:

1. POOH with rods and pump
2. Set a CIBP @ 5,700' and dump bail 35' of cmt
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GL=3684'
KB=3695'
Spud Date: 5/18/60

Apache Corporation – Empire Abo Unit #D-37

Wellbore Diagram – Current Status

Date: 11/11/11
S Hardin

API: 30-015-01551

Surface Location



500' FSL & 820' FWL, Unit M
Sec 26, T17S, R28E, Eddy County, NM

Surface Casing

8-5/8" 28# @ 750' w/ 300 sx to surface

9/75: Sq'd holes in csg @ 1020'-1040' w/ 200 sx Cl C

10/75: Sq'd holes in csg @ 1240'-1250' w/ 200 sx cmt

4/69: Perf csg @ 1264'-65' (4 holes) & sq'd w/ 325 sx cmt
Cl C circ to surf, DO cmt in csg

9/19/97: Perf Abo Shale @ 5790'-5810'
Acidize w/ 1300 gals 7-1/2% HCL

9/29/97: Add Perfs to Abo Shale @ 5745', 54', 62', 5833', 40', 45',
58, 62', 70', 74', 77', 5901', 08', 19', 24', 33' w/ 1 JSPF, 16 holes

9/97: CR @ 6012'

9/75: Perf Abo @ 6030', 32', 34', 36', 44', 46', 48', 50', 52', 54', 58
1/77: Acidize w/ 5000 gals xylene 15% HCL
9/97: Sq'd perfs

6/60: Perf Abo @ 6080'-6100'
Acidized w/ 5000 15% regular acid
11/74: Sq'd perfs w/ 100 sx Cl H

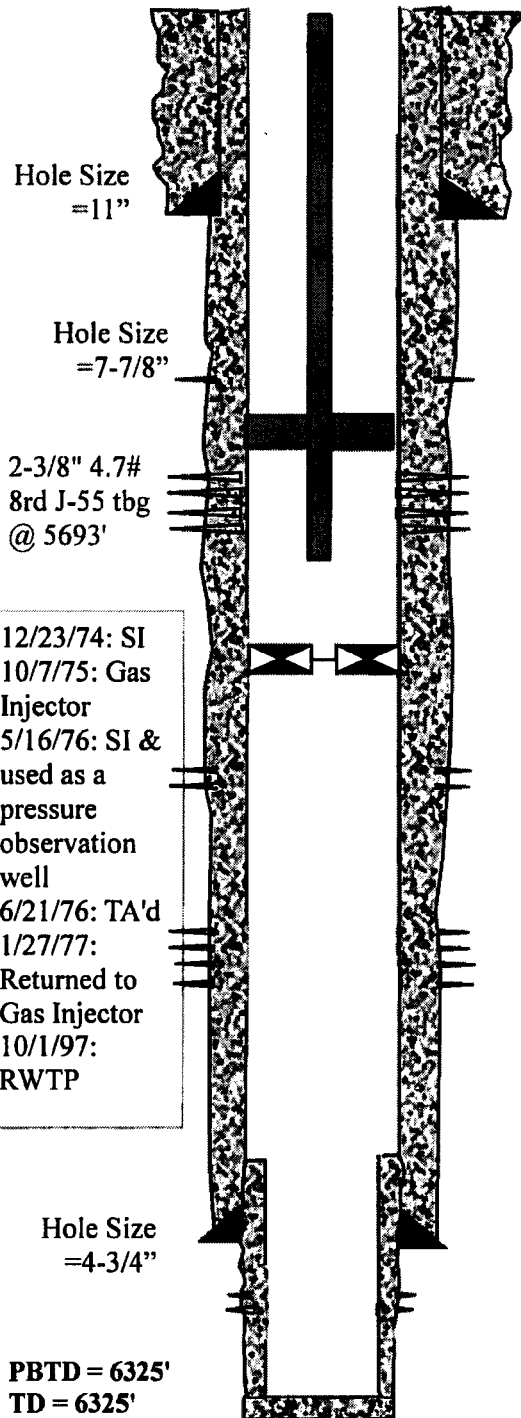
1/77: Perf Abo @ 6080'-6122' w/ 1 JSPF, 41 holes
1/77: Acidize w/ 5000 gals xylene 15% HCL
9/97: Sq'd perfs

12/74: Perf Abo @ 6230', 32', 34', 36', 38', 40', 42', 44', 46', 48',
50', 52', 54', 56', 58', 60', 62', 64', 66', 68', 70' w/ 2 JSPF, 80 holes
Acidized w/ 500 gals 15% HCL-LSTNE & 1000 gals 15%
LSTNE & 8000 gals DAD (75% acidm 25% xylene)
9/75: Sq'd w/ 200 sx Cl C

Production Casing

5-1/2" 15.5# @ 6227' w/ 150 sx cmt & 125
units HYS 400 to surface

2-7/8" 6.5# tubing for liner set @ 6175'-6325' w/ 25 sx cmt



PBTD = 6325'
TD = 6325'
(originally TD =
6227', deepened in
11/74)

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1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator Apache Corporation		6. State Oil & Gas Lease No. 647
3. Address of Operator 303 Veterans Airpark Lane, Suite 1000 Midland, TX 79705		7. Lease Name or Unit Agreement Name Empire Abo Unit (309164)
4. Well Location Unit Letter <u>K</u> : <u>1650</u> feet from the <u>South</u> line and <u>2310</u> feet from the <u>West</u> line Section <u>32</u> Township <u>17S</u> Range <u>28E</u> NMPM County <u>Eddy</u>		8. Well Number <u>026B</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) • 3671' GL		9. OGRID Number 873
		10. Pool name or Wildcat Empire; Abo (22040)

12. 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 checked="" type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Apache would like to perform the following work:

Producing Interval: 5,807-6,067'

Objective: TA Wellbore. Currently performing geological and petrophysical studies to determine feasibility for recompletion. Evaluating wellbore to bring it back to production.

Procedure:

1. POOH with rods and pump
2. Set a CIBP @ 5,780' and dump bail 35' of cmt
3. Circulate fluid and pressure test casing to 500 psi
4. Record the test on a chart and submit to OCD for approval

Spud Date:

03/13/1960

Rig Release Date:

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

SIGNATURE

Isabel Hudson

TITLE Regulatory Analyst

DATE 01-09-2017

Type or print name Isabel Hudson

E-mail address: isabel.hudson@apachecorp.com

PHONE: (432) 818-1142

For State Use Only

APPROVED BY:

Baughman

TITLE

DE SUPERVISOR

DATE

09 JAN 17

Conditions of Approval (if any):



January 6, 2017

Empire ABO Unit # G-26

Legal Name: Empire ABO Unit #026B

API # 30-015-01661

Eddy County, NM

Producing Interval: 5,807-6,067'

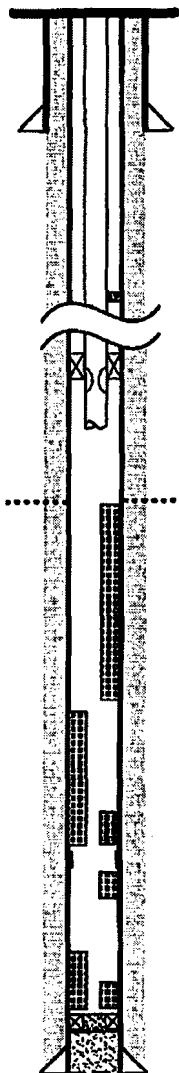
Objective: TA Wellbore. Currently performing geological and petrophysical studies to determine feasibility for recompletion. Evaluating wellbore to bring it back to production.

Procedure:

1. POOH with rods and pump
2. Set a CIBP @ 5,780' and dump bail 35' of cmt
3. Circulate fluid and pressure test casing to 500 psi
4. Record the test on a chart and submit to OCD for approval

Empire Abo Unit 'G' 26

Potential
Perforation
Zones



- KB at 3682' above sea level (Used as the Datum)
- Flowing well
- Top of Cement at surface
- 8-5/8" - 24# casing set at 760' (11" hole)
- 4 Squeeze holes at 2410', Squeezed off
- PKR set at 5740', SN set at 5741
- Tubing: 181jts (5725'), 2 3/8", 4.7#, ELE 8rd, J-55
- Top of Abo at 5808'
- Perforations 5807' - 5908' w/ 2 JSFF
- Perforations 5914' - 5982' w/ 2 JSFF
- Perforations 5966' - 5982' Squeezed off
- Tight spot in 5 1/2" casing at 5994'
- Perforations 5998' - 6010' w/ 2 JSFF
- Perforations 6038' - 6068' w/ 2 JSFF
- Perforations 6054' - 6067', w/ 7 holes total
- Packer pushed to 6075' w/ other junk
- FBTD at 6079'
- 5-1/2" - 15.5# casing set at 6083' (7 7/8" hole)

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1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator Apache Corporation		6. State Oil & Gas Lease No. B 2071-17
3. Address of Operator 303 Veterans Airpark Lane, Suite 1000 Midland, TX 79705		7. Lease Name or Unit Agreement Name Empire Abo Unit
4. Well Location Unit Letter P : 330 feet from the South line and 660 feet from the East line Section 27 Township 17S Range 28E NMPM County Eddy		8. Well Number 036
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3678' GL		9. OGRID Number 873
		10. Pool name or Wildcat Empire; Abo (22040)

12. 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 ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Apache would like to perform the following work:

Producing Interval: 5,728-923'

Objective: TA Wellbore. Currently performing geological and petrophysical studies to determine feasibility for recompletion. Evaluating wellbore to bring it back to production.

Procedure:

1. POOH with rods and pump
2. Set a CIBP @ 5,685' and dump bail 35' of cmt
3. Circulate fluid and pressure test casing to 500 psi
4. Record the test on a chart and submit to OCD for approval

Spud Date:

Rig Release Date:

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

SIGNATURE

Isabel Hudson

TITLE Regulatory Analyst

DATE 01/09/2017

Type or print name Isabel Hudson

E-mail address: isabel.hudson@apachecorp.com

PHONE: (432) 818-1142

For State Use Only

APPROVED BY:

[Signature]

TITLE

DIS SUPERVISOR

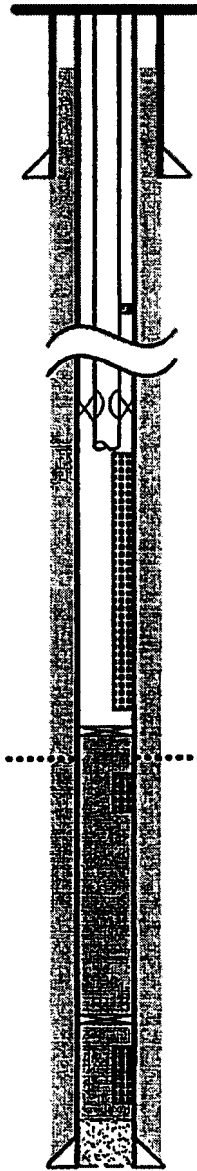
DATE

09 JAN 17

Conditions of Approval (if any):

Empire Abo Unit 'D' 36

Potential
Perforation
Zones



--- KB at 3673' above sea level (Used as the Datum)
Pumping Well

--- Top of Cement at 150'

--- 8-5/8" - 22.7# casing set at 751 (11' hole)

--- Hole in casing at 1525', Squeezed off

--- SN set at 5688', AC set at 5689' w/ 31 Mud Anchor
--- Tubing: 182jts (5678'), 2 3/8", 4.7#, ELJ 8rd, J-55

--- Perforations 5728' - 5923' w/ 1JSFF (27 holes total)

--- CR set at 5940'

--- Top of Abo at 5960'

--- Perforations 5970' - 6000', Squeezed off

--- CR set at 6160'

--- Perforations 6160' - 6225', Squeezed off

--- FBTD at 6240'

--- 5-1/2" - 14# casing set at 6271 (7 7/8" hole)



January 6, 2017

Empire ABO Unit # D-36
Legal Name: Empire ABO Unit #036
API # 30-015-01582
Eddy County, NM
Producing Interval: 5,728-923'

Objective: TA Wellbore. Currently performing geological and petrophysical studies to determine feasibility for recompletion. Evaluating wellbore to bring it back to production.

Procedure:

1. POOH with rods and pump
2. Set a CIBP @ 5,685' and dump bail 35' of cmt
3. Circulate fluid and pressure test casing to 500 psi
4. Record the test on a chart and submit to OCD for approval