

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

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (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. 30-015-22911
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. XO-0647-0405
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 <u>G</u> : <u>1545</u> feet from the <u>NORTH</u> line and <u>1625</u> feet from the <u>East</u> line Section <u>35</u> Township <u>17S</u> Range <u>28E</u> NMPM County <u>Eddy</u>		8. Well Number <u>391A</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3681' GR		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

<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
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 TA wellbore.

1. POOH w/ rods and pump while laying down, TOOH w/ tubing and BHA
2. MIRU wireline, RIH w/ gauge ring, POOH, RIH w/ CIBP, set @ 5980' (top of perms 6035'), POOH
3. RIH w/ dump bailer and spot 4 sxs (35') of cement on top of CIBP, POOH
4. RIH and tag TOC. Record depth of TOC. RD WL
5. TIH w/ tubing (testing in)
6. Test casing. If tests good, circulate hole w/ packer fluid and biocide
- Note: If casing does not test, TA operations will be postponed and the well evaluated for P&A.
7. TOOH w/ tubing while scanning. Perform MIT
8. TA well contact NMOCD 24 hours prior to performing MIT test

NM OIL CONSERVATION  
 ARTESIA DISTRICT

SEP 17 2018

RECEIVED  
 TA status may be granted after a successful MIT test is performed. Contact the OCD to schedule the test so it may be witnessed.

Spud Date: 06/25/1979 Rig Release Date: 08/29/1979

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

SIGNATURE Alicia Fulton TITLE Sr. Staff Reg Analyst DATE 9/17/2018

Type or print name Alicia Fulton E-mail address: alicia.fulton@apachecorp.com PHONE: (432) 818-1088

For State Use Only

APPROVED BY: [Signature] TITLE Staff Mgr DATE 9-20-18  
 Conditions of Approval (if any):



LOE

**Well name:** Empire Abo Unit #391 A  
**API Number:** 30-015-22911  
**County, State:** Eddy, NM  
**Legals:** SEC-33 TWP-17S RGE-28E

**Depths:** 6425' MD 6135' PBTB  
**Producing Interval** 6035-6130'

CSG	OD	Wt/Ft	Cap (bbl/ft)	Top	Set @
Surface	13.375"	54.5#	0.1546	0'	745'
Intermediate	8.625"	28#	0.0624	0'	3010'
Production	5.500"	15.5#	0.0238	0'	6205'

**Engineer:** Alex Hernandez 432-818-1694 (o) [alex.hernandez@apachecorp.com](mailto:alex.hernandez@apachecorp.com)  
**Assistant Foreman:** David Pedroza 575-910-3283 (c) [david.pedroza@apachecorp.com](mailto:david.pedroza@apachecorp.com)  
**Production Foreman:** Javier Berdoza 575-441-5755 (c) [javier.berdoza@apachecorp.com](mailto:javier.berdoza@apachecorp.com)

**What's New:**

- 1) Lay down rods and tubing for inspection
- 2) Set CIBP, cap w/ cement, and test casing integrity
- 3) TA well

**WELL HISTORY**

The well is currently shut in. Last production date was on 11/2017, yielding 0 BO, 0 BW, 1 MCF.

**OBJECTIVE:**

TA well. This well is currently producing from the Abo formation. It is recommended that this well be TA'd for evaluation of uphole potential requiring geological and engineering review. Without the proper geological analysis, we stand a chance to lose valuable resources by prematurely plugging the well at this time.

**PROCEDURE:**

1. POOH w/ rods and pump while laying down, TOOH w/ tubing and BHA
2. MIRU wireline, RIH w/ gauge ring, POOH, RIH w/ CIBP, set @ 5980' (top of perms 6035'), POOH
3. RIH w/ dump bailer and spot 4 sxs (35') of cement on top of CIBP, POOH
4. RIH and tag TOC. Record depth of TOC. RD WL
5. TIH w/ tubing (testing in)
6. Test casing. If tests good, circulate hole w/ packer fluid and biocide  
Note: If casing does not test, TA operations will be postponed and the well evaluated for P&A.
7. TOOH w/ tubing while scanning. Perform MIT
8. TA well

Note: Please contact NMOCD 24 hours prior to performing MIT test.

9/17/2018

# Apache Corporation – Empire Abo Unit #391 A

GL= 3681'  
KB= 11'  
Spud Date: 6/25/1979

## Wellbore Diagram – Current Status

Date: 9/8/2011  
S Hardin

API: 30-015-22911

### Surface Location



1545' FNL & 1625' FEL, Unit G  
Sec 33, T17S, R28E, Eddy County, NM

### Surface Casing

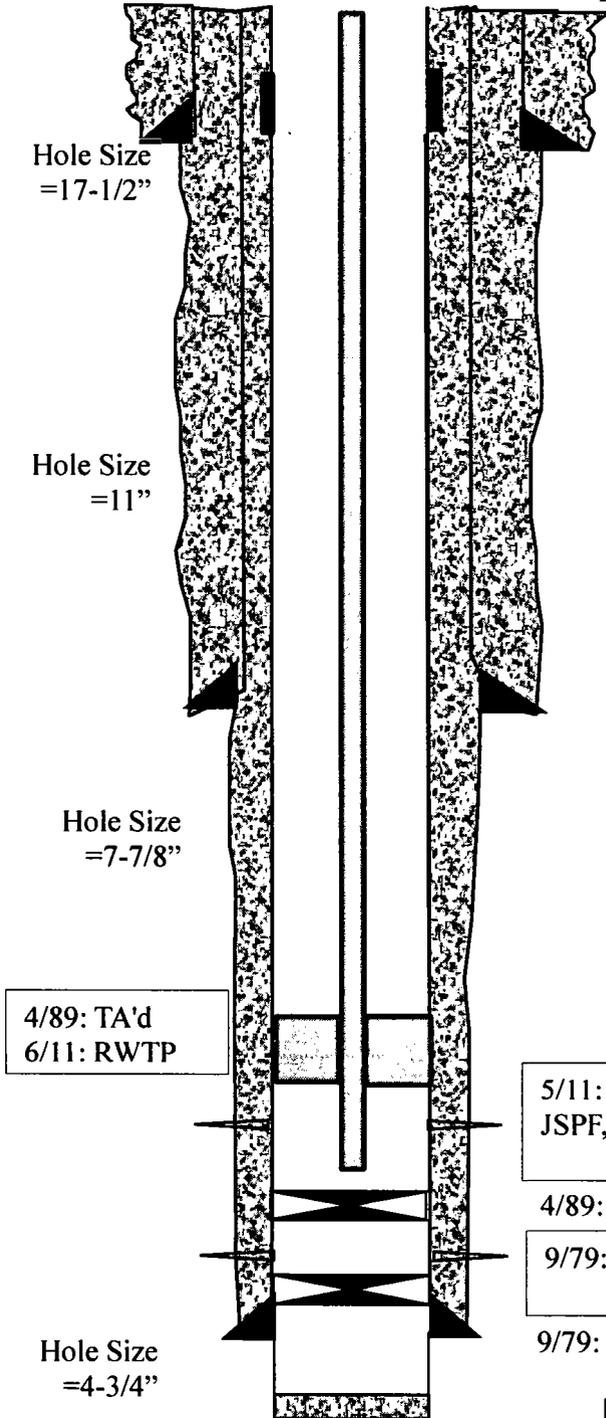
13-3/8" 54.5# K-55 @ 745' cmt w/ 650 sx circ 100 sx to surface

### Intermediate Casing

8-5/8" 28# S-80 @ 3010' cmt w/ 1225 sx circ 275 sx to surface

### Production Casing

5-1/2" 15.5# K-55 @ 6205' cmt w/ 1275 sx circ 150 sx to surface



Hole Size = 17-1/2"

Hole Size = 11"

Hole Size = 7-7/8"

4/89: TA'd  
6/11: RWTP

Hole Size = 4-3/4"

5/11: Perf Upr Abo @ 6035'-66', 6078'-6102', 6116'-30' (2 JSPF, 13 Holes)  
Acidize 2500 gal 15% Anti-Sludge acid

4/89: CIBP @ 6135'

9/79: Perf Abo @ 6142'-6148' (2 JSPF, 12 Holes)  
Acidize w/ 500 gal 15% HCL-LSTNE-FE

9/79: CIBP @ 6183'

PBSD = 6135'  
TD = 6425'

# Apache Corporation – Empire Abo Unit #391 A

GL= 3681'  
KB= 11'  
Spud Date: 6/25/1979

## Wellbore Diagram – Proposed

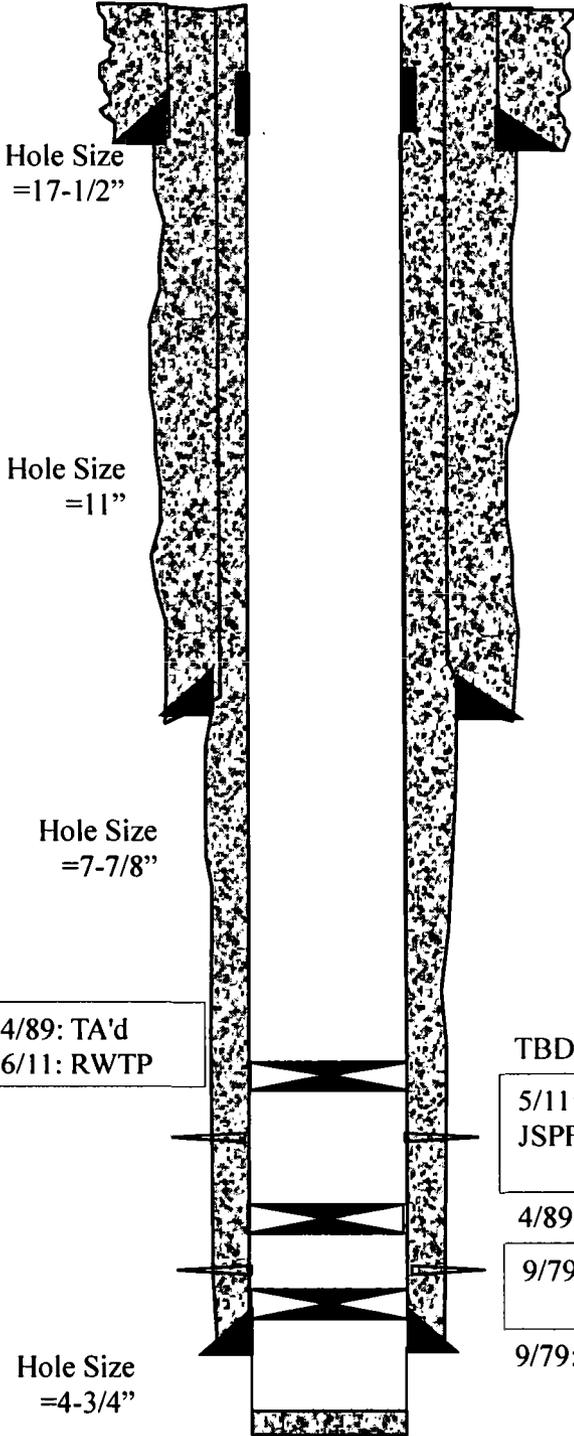
Date: 9/8/2011  
S Hardin

API: 30-015-22911

### Surface Location



1545' FNL & 1625' FEL, Unit G  
Sec 33, T17S, R28E, Eddy County, NM



### Surface Casing

13-3/8" 54.5# K-55 @ 745' cmt w/ 650 sx circ 100 sx to surface

### Intermediate Casing

8-5/8" 28# S-80 @ 3010' cmt w/ 1225 sx circ 275 sx to surface

4/89: TA'd  
6/11: RWTP

TBD: Set CIBP @ 5980' w/35' cmt set via wireline

5/11: Perf Upr Abo @ 6035'-66', 6078'-6102', 6116'-30' (2 JSPF, 13 Holes)  
Acidize 2500 gal 15% Anti-Sludge acid

4/89: CIBP @ 6135'

9/79: Perf Abo @ 6142'-6148' (2 JSPF, 12 Holes)  
Acidize w/ 500 gal 15% HCL-LSTNE-FE

9/79: CIBP @ 6183'

Hole Size  
=4-3/4"

### Production Casing

5-1/2" 15.5# K-55 @ 6205' cmt w/ 1275 sx circ 150 sx to surface

PBTD = 6135'  
TD = 6425'