

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720

**District II**  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720

**District III**  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170

**District IV**  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

**State of New Mexico**  
**Energy Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 South St. Francis Dr.**  
**Santa Fe, NM 87505**

Form C-101  
Revised November 14, 2012

☐ AMENDED REPORT

**RECEIVED**

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

1. Operator Name and Address Apache Corporation: 303 Veterans Airpark Lane, Suite 3000 Midland, TX 79705		2. OGRID Number 873
		3. API Number 30-025-33551
4. Property Code 302375	5. Property Name W A Weir	6. Well No. 010

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
D	35	19S	36E		330	North	660	West	Lea

**8. Proposed Bottom Hole Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County

**9. Pool Information**

Pool Name Monument; Abo	Pool Code 46970
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**Additional Well Information**

11. Work Type P	12. Well Type O	13. Cable/Rotary R	14. Lease Type P	15. Ground Level Elevation 3648'
16. Multiple N	17. Proposed Depth 7300'	18. Formation Abo	19. Contractor	20. Spud Date 08/30/1996
Depth to Ground water		Distance from nearest fresh water well None within 1/2 mile radius		Distance to nearest surface water None

**21. Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
S	11"	8-5/8"	24#	1212'	450 sx	
P	7-7/8"	5-1/2"	15.5#	7550'	1125 sx	

**Casing/Cement Program: Additional Comments**

Apache would like to plugback the Lower Abo & complete the Upper Abo as per the attached procedure.

**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer

<p>23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that I have complied with 19.15.14.9 (A) NMAC <input type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input type="checkbox"/>, if applicable. Signature: </p> <p>Printed name: Fatima Vasquez</p> <p>Title: Regulatory Tech I</p> <p>E-mail Address: Fatima.Vasquez@apachecorp.com</p> <p>Date: 04/30/2013      Phone: (432) 818-1015</p>	<p><b>OIL CONSERVATION DIVISION</b></p> <p>Approved By: </p> <p>Title: Petroleum Engineer</p> <p>Approved Date: 05/07/13      Expiration Date: 05/07/15</p> <p>Conditions of Approval Attached</p>
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MAY 20 2013

W.A. Weir #10

API # 30-025-33551

Sec 35, T19S, R36E

Elevation: 3660' KB, 3648' GL

TD: 7,550'

PBTD: 7,458'

Casing Record: 8-5/8" 24# J-55 @ 1212' w/ 450 sxs  
5-1/2" 15.5# K-55 @ 7,550' w/ 100 sxs. ECP @ 7062 cmt w/ 1025 sxs

Perfs: **Abo:** 7260-72; 7275-86; 7306-70 w/ 2 jspf (177 holes)

Objective: Test Upper Abo for Production

AFE: PA-13-3707

1. MIRU unit. Kill well as necessary. ND WH. NU BOP. POOH w/ tubing.
2. RU reverse unit. PU 4-3/4" bit, bit sub, and 5-1/2" casing scraper on 2-7/8" tubing to be used as work string. RIH to 7,300'. Circulate hole clean. POOH.
3. PU and RIH w/ RBP-PKR straddle assembly. Set RBP at  $\pm$  7,393'. TIH to 7,250' and set PKR.
4. RU swab equipment and swab test the Abo perfs from 7,260-7,286'. Report results back to Midland.
  - a. *If swab results in 100+ BBLs fluid with a FL near 3900 and no decrease in FL seen; communication present.*
5. Release PKR and TIH to 7,393' and latch and release RBP. TOH.
6. MIRU WL. RIH w/ perforating gun and CIBP and set at
  - a. 7,300' if upper perforations are not in communication with water zone.
  - b. 7,250' if all perforations swab test wet.
7. Perforate the upper Abo at 7093-7101; 7124-28; 7139-47; 7181-90; 7198-7207 w/ 2 jspf using Connex 0.5" diameter BH charges (76 holes). TIH with perforator. RDMO WL. **Correlate to Schlumberger Compensated Neutron Litho-Density/GR log dated 9/12/1996.**
8. PU and RIH w/ PKR + SN on 2-7/8" tubing. Spot 500 gal acid across the Abo perforations. Set PKR at  $\pm$  7,040'.
9. MIRU Acid Services. Acidize the Abo down the tubing with 3,000 gallons 15% NEFE w/ additives using 140 ball sealers to divert spaced throughout the job as a max rate but do not exceed 6,000 psi treating pressure. Displace to bottom perf with 44.5 bbls of flush. Surge balls.
10. Release PRK and TIH to knock balls off perforations. TOH and set PKR at 7,040'.
11. RU swab equipment and recover load and swab test for fluid entry and oil cut. Report results to Midland. RD swab equipment. *If unproductive, SI for evaluation or plugging.*
12. Kill well if necessary. Release PKR and TOH.
13. RIH w/ production equipment as per the Monument office specifications. RDMOPU
14. Set pumping unit and install electrical equipment per Monument office specifications. Return well to production and place into test for 10 days. Have chemical representative test fluids and put well on the appropriate chemical maintenance program.

GL=3648'  
KB=3660'  
Spud:8/30/96

## Apache Corporation – WA Weir #10

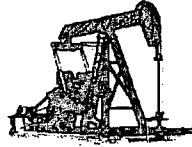
### Wellbore Diagram – Proposed

Date : 4/10/2013

API: 30-025-33551

#### Surface Location

R. Taylor



330' FNL & 660' FWL,  
Lot D Sec 35, T19S, R36E, Lea County, NM

Hole Size  
=11"

#### Surface Casing

8-5/8" 24# J-55 @ 1212' w/ 450 sxs

TOC @ 3600'

TAC @ TBD  
SN @ TBD

Excellent cmt from 5974-7071

External CSG PKR @ 7062. Cmt w/ 1025 sxs to surface

TBD: Perf Abo @ 7093-7101; 7124-28; 7139-47; 7181-90; 7198-7207 w/ 2 jspf (76 holes). Acidized w/ 3000 gal 15% NEFE

TBD: CIBP set @  $\pm$  7300

No cement from 7081-7260

Good cmt from 7240-7458

9/96: Perf Abo @ 7260-72; 75-86; 7306-70 W/ 2 jspf (177 holes).  
Acidized w/ 4368 gal 15% NEFE  
5/05: 7260-7370 acidized w/ 4500 gal 15% HCL

5/05: CIBP pushed to 7430'

#### Production Casing

5-1/2" 15.5# K-55 @ 7550' w/ 100 sxs

PBTD = 7,458'  
MD = 7,550'

7/04: Well  
TA'd

5/05:  
reactivated

Hole Size  
=7-7/8"

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State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office  
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-33551		<sup>2</sup> Pool Code 46970		<sup>3</sup> Pool Name Monument, Abo	
<sup>4</sup> Property Code 302375		<sup>5</sup> Property Name W A Weir			<sup>6</sup> Well Number 010
<sup>7</sup> OGRID No. 873		<sup>8</sup> Operator Name Apache Corporation: 303 Veterans Airpark Lane, Suite 3000 Midland, TX 79705			<sup>9</sup> Elevation 3648'


<sup>10</sup> Surface Location

UL or lot no. D	Section 35	Township 19S	Range 36E	Lot Idn	Feet from the 330	North/South line North	Feet from the 660	East/West line West	County Lea
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<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<sup>12</sup> Dedicated Acres 40.0		<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> Order No.			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

					<p><b><sup>17</sup> OPERATOR CERTIFICATION</b></p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p> 04/30/2013</p> <p>Signature Date</p> <p>Fatima Vasquez</p> <p>Printed Name</p> <p>Fatima.Vasquez@apachecorp.com</p> <p>E-mail Address</p>
					<p><b><sup>18</sup> SURVEYOR CERTIFICATION</b></p> <p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p>
					Certificate Number