

**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

Form C-101  
Revised November 14, 2012

**HOBBS OGD** Energy Minerals and Natural Resources  
**Oil Conservation Division**  
**MAY 03 2013** 1220 South St. Francis Dr.  
Santa Fe, NM 87505

☐ 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 30-025-33696
4. Property Code 302375	5. Property Name W A Weir	6. Well No. 013

**7. Surface Location**

UL - Lot C	Section 35	Township 19S	Range 36E	Lot Idn	Feet from 330	N/S Line North	Feet From 1650	E/W Line West	County Lea
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**8. Proposed Bottom Hole Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
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**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 3639'
16. Multiple N	17. Proposed Depth 7280'	18. Formation Abo	19. Contractor	20. Spud Date 11/26/1996
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**

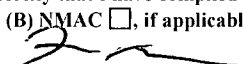
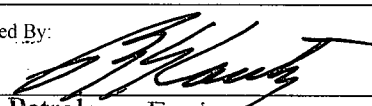
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
S	11"	8-5/8"	24#	1205'	400 sx	
P	7-7/8"	5-1/2"	15.5#	7660'	1150 sx	

**Casing/Cement Program: Additional Comments**

Apache would like to plugback the Lower Abo & complete the Upper Abo as per the attached procedure.
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**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure

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: 		OIL CONSERVATION DIVISION Approved By:  Title: Petroleum Engineer Approved-Date: 05/01/13 Expiration Date: 05/01/15 Conditions of Approval Attached	
Printed name: Fatima Vasquez			
Title: Regulatory Tech I			
E-mail Address: Fatima.Vasquez@apachecorp.com			
Date: 04/30/2013	Phone: (432) 818-1015		

MAY 20 2013

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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 30-025-33696	<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>7</sup> OGRID No. 873	<sup>8</sup> Operator Name Apache Corporation: 303 Veterans Airpark Lane, Suite 3000 Midland, TX 79705	<sup>6</sup> Well Number 013
		<sup>9</sup> Elevation 3639'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	35	19S	36E		330	North	1650	West	Lea

<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><sup>17</sup> OPERATOR CERTIFICATION</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>Signature:  Date: 04/30/2013</p> <p>Printed Name: Fatima Vasquez</p> <p>E-mail Address: Fatima.Vasquez@apachecorp.com</p>	
	<p><sup>18</sup> SURVEYOR CERTIFICATION</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>	
	<p>Certificate Number</p>	

W.A. Weir #13

API # 30-025-33696

Sec 35, T19S, R36E

Elevation: 3651' KB, 3639' GL

TD: 7,660' PBTD: 7,567'

Casing Record: 8-5/8" 24# J-55 @ 1205' w/ 3300 sxs

5-1/2" 15.5# K-55 @ 7,660' w/ 350 sxs. ECP @ 6948 cmt w/ 1150 sxs

Perfs: **Abo:** 7258-63; 7266-75; 7285-89; 7295-7318; 7320-26; 7333-42; 7345-49; 7353-56; 7364-69; 7372-76; 7379-84; 7387-97 w/ 2 jspf. All perfs perforated twice. Total 372 holes.

**Abo:** 7446-7456 w/ 3 jspf (34 holes)

**SQZ Holes:** 7400 w/ 4 jspf. SQZ'd w/ 268 sxs

AFE: PA-13-3740

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 7,400'. Circulate hole clean. POOH.
3. PU and RIH w/ PKR-RBP straddle assembly on WS to 7,281'. Set RBP at 7,281'. TOH 2' and test RBP to 1000 psi. Release PKR and TOH to  $\pm$  7,245' and set PKR.
4. RU swab equipment and swab test the perfs from 7258-7275. Report results to Midland office.
5. Release PKR and TIH to RBP. Latch and release RBP and POOH.
6. MIRU WL. RIH w/ perforating gun and CIBP.
  - a. If 7258-7275 is not communicated with the water leg, set CIBP @ 7,280'.
  - b. If 7258-7275 is communicated with the water leg, set CIBP @ 7,250'.
7. Perforate the upper Abo at 7015-19; 7051-56; 7073-79; 7124-28; 7133-39 w/ 2 jspf using Connex 0.5" diameter BH charges (50 holes). TIH with perforator. **Correlate to Schlumberger Compensated Neutron Litho-Density/NGT log dated 12/11/1996.**
  - a. RIH w/ dump bailer and dump 3 sxs cmt on top of CIBP @ 7,250 if unproductive. RDMO WL.
8. PU and RIH w/ PKR + SN on 2-7/8" tubing. Spot 200 gal acid across the Abo perforations. Set PKR at  $\pm$  6,965'.
9. MIRU Acid Services. Acidize the Abo down the tubing with 2,500 gallons 15% NEFE w/ additives using 100 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 6,965'.
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=3639'  
KB=3651'  
Spud:11/26/96

## Apache Corporation – WA Weir #13

### Wellbore Diagram – Current

Date : 4/25/2013

API: 30-025-33696

#### Surface Location

R. Taylor



330' FNL & 1650' FWL,  
Lot C Sec 35, T19S, R36E, Lea County, NM

#### Surface Casing

8-5/8" 24# J-55 @ 1205' w/ 330 sxs

Hole Size  
=11"

Hole Size  
=7-7/8"

TOC @ 3538'

TAC @ TBD  
SN @ TBD

poor cement from 6968-7567

PKR Stage tool @ 6948. Cement w/ 1150 sxs to surface

TBD: Perf Abo @ 7015-19; 7051-56; 7073-79; 7124-28; 7133-39 w/ 2 jspf (50 holes). Acidized w/ 2500 gal 15% NEFE

TBD: CIBP set @  $\pm$  7250 w/ 3 sxs cmt

10/08: Re-perf @ 7258-7397 w/ 2 jspf. (186 holes). Acidize 7258-7456 w/ 6250 gal 15% NEFE BXDX w/ ASOL

12/96: Perf Abo @ 7258-63; 7266-75; 7285-89; 7295-7318; 7320-26; 7333-42; 7345-49; 7353-56; 7364-69; 7372-76; 7379-84; 7387-97 w/ 2 jspf (186 holes).

Acidized w/ 4400 gal 15% NEFE DI HCL

1/07: 17 Drum scale SQZ w/ chemical pill

3/07: Acidize w/ 2500 gal 15% NEFE w/ 10% zylene w/ 55 gal WCW 2223 & 165 gal XC120

12/96: Perf @ 7400 w/ 4 jspf. SQZ'd w/ 268 sxs

10/08: Perf 7446-56 w/ 3 jspf (34 shots)

#### Production Casing

5-1/2" 15.5# K-55 @ 7660' w/ 350 sxs

PBTD = 7,567'  
MD = 7,660'

