

**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

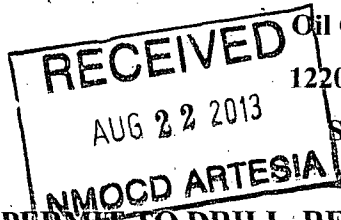
State of New Mexico

Form C-101  
Revised July 18, 2013

Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

☒ AMENDED REPORT



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

Operator Name and Address Apache Corporation 303 Veterans Airpark Lane, Suite 3000, Midland, TX 79705		OGRID Number 873
Property Code 309164		API Number 30-015-03188
Property Name Empire Abo Unit		Well No. 45

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
E	30	17 S	29 E		2310	North	330	West	Eddy

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	Pool Code
Empire; Abo - replaces APD dated 7-24-13. Will now inject water.	

Additional Well Information

11. Work Type D	12. Well Type I	13. Cable/Rotary R	14. Lease Type S	15. Ground Level Elevation 3,660'
16. Multiple No	17. Proposed Depth 6375'	18. Formation Empire; Abo	19. Contractor	20. Spud Date upon approval
Depth to Ground water >100'		Distance from nearest fresh water well 2,647'		Distance to nearest surface water >mile

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf.	11"	8-5/8"	24	724'	300 sx	GL
Prod.	7-7/8"	5-1/2"	14 & 15.5	6,375	600 sx	1,180'

Casing/Cement Program: Additional Comments

Will drill to original TD (6375) & complete as injector (5998-6334).
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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
	2,000	2,000	

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 ☐ and/or 19.15.14.9 (B) NMAC ☐, if applicable.

Signature:

*Brian Wood*

Printed name: Brian Wood

Title: Consultant

E-mail Address: brian@permitswest.com

Date: August 20, 2013

Phone: (505) 466-8120

OIL CONSERVATION DIVISION

Approved By:

*T. C. Shepard*

Title:

"Geologist"

Approved Date:

*8/22/2013*

Expiration Date:

*8/22/2015*

Conditions of Approval Attached

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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 30-015-03188	<sup>2</sup> Pool Code 22040	<sup>3</sup> Pool Name Empire; Abo
<sup>4</sup> Property Code 309164	<sup>5</sup> Property Name Empire Abo Unit	<sup>6</sup> Well Number 45
<sup>7</sup> OGRID No. 873	<sup>8</sup> Operator Name Apache Corporation	<sup>9</sup> Elevation 3,660' GL

<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
E	30	17 S	29 E		2310	North	330	West	Eddy

<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	<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.

<sup>16</sup> 				<sup>17</sup> <b>OPERATOR CERTIFICATION</b> 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 offered by the division.
				Signature Date 8-20-13
				Printed Name brian@permitswest.com
				E-mail Address
				<sup>18</sup> <b>SURVEYOR CERTIFICATION</b> 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. Dec. 7, 1960 Date of Survey Signature and Seal of Professional Surveyor: Original survey by James Brown on file with OCD
				Certificate Number 542

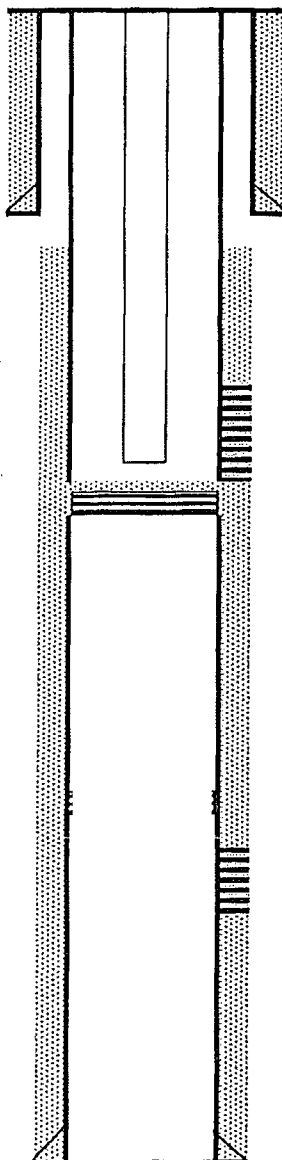
# Apache Corp.

GROUP:	Permian North	DATE:	Mar. 13, 2012
FIELD:	Artesia (BP)	BY:	Sarah Hardin
LEASE/UNIT:	Empire Abo Unit	WELL:	B-45
COUNTY:	Eddy	STATE:	New Mexico
API:	30-015-03188		

Unit Letter E, Section 30, T-17-S, R-29-E  
Spud Date: 12/30/60

KB = 11'  
GL = 3660'

"As Is"



8 5/8" 24# J-55 Set @ 724'  
CMT W/ 300 SX (SURF/CIRC)

2 7/8" TUBING @ 5897'

## ABO SHALE

8/98: Perf @ 5998'-6180' w/1 JSPF  
8/98: Acidized w/3150 gals 15% NEFE  
8/98: Frac w/61140# 20/40 sand  
8/98: Possible CR @ 6198' w/cmt (Did not state that it was drilled out in reports)

## ABO

2/71: Perf @ 6207', 6209', 6216', 6235', 6244', 6247', 6260', 6278', 6283', 6289' w/1 JSPF  
2/71: Acidized w/5000 gals 20% LSTNE  
3/71: Acidized w/5000 gals 20% LSTNE  
8/71: Frac'd w/20000 gals mod brine & 35000 # 20/40 sand @ 17.9 BPM  
9/88: Perf @ 6212'-6246'  
9/88: Acidized w/1400 gals  
8/98: Sq'd 6207'-6289' w/125 sx Class C cmt  
9/88: CIRC @ 6265'

## ABO

8/71: 6306'-6311' w/1 JSPF  
8/71: Acidized w/1500 gals 20% HCL-NE

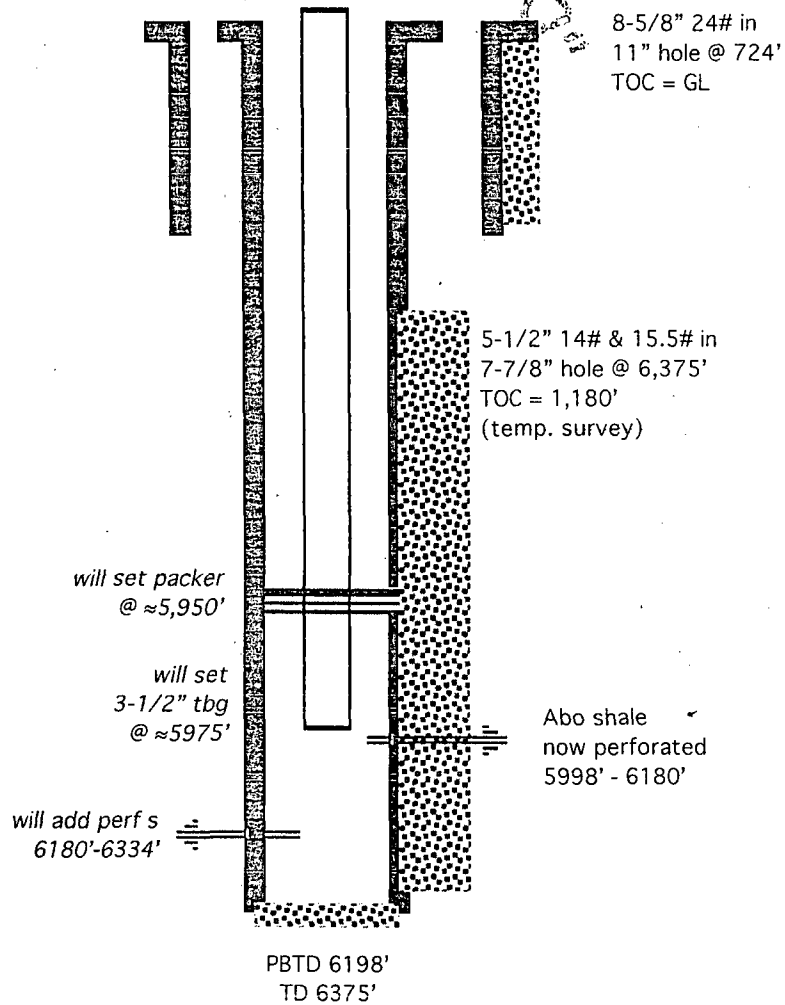
## ABO

1/61: Perf @ 6269'-92', 6306'-11', 6328'-34'  
1/61: Acidized w/3000 gals acid  
2/71: Sq'd perfs w/250 sx Class C

5 1/2" 14/15.5# J-55 Set @ 6375'  
CMT W/ 600 SX & 50 gal latex (TOC=1180')

TD: 6375'  
PBD: 6198'

# PROPOSED CONVERSION OF EMPIRE ABO UNIT 45



(not to scale)