

District I
1625 N. French Dr , Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S St Francis Dr , Santa Fe, NM 87505

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

Form C-101
June 16, 2008

Submit to appropriate District Office

☐ AMENDED REPORT

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

¹ Operator Name and Address Apache Corporation		² OGRID Number 000873
		³ API Number 30 - 025-07232
⁴ Property Code 26474	⁵ Property Name L.W. Ward	⁶ Well No. 3
⁹ Proposed Pool 1 Bronco; Wolfcamp (7600)		¹⁰ Proposed Pool 2

7 Surface Location

UL or lot no J	Section 11	Township 13S	Range 38E	Lot Idn	Feet from the 1983'	North/South line SOUTH	Feet from the 1515'	East/West line EAST	County LEA
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8 Proposed 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
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Additional Well Information

¹¹ Work Type Code P	¹² Well Type Code O	¹³ Cable/Rotary	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3810'
¹⁶ Multiple NO	¹⁷ Proposed Depth PBTD: +/- 10,900'	¹⁸ Formation Wolfcamp	¹⁹ Contractor	²⁰ Spud Date OPEN

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
NO CHANGE					

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Current Profile:

Sqz'd Mississippian Perfs @ 10,975'-11,000'

Devonian Perfs @ 11,634'-11,650', currently producing

Apache proposes to plug back the Devonian and move up hole to re-complete the Wolfcamp formation via the following procedure:

1. MIRU pulling unit. Pull production equipment
2. Set CIBP @ +/- 10,900' w/2 sx of cmt
3. Run CBL and CNL logs
4. Perforate the Wolfcamp at interval selected by engineer.
5. Isolate and acidize the Wolfcamp
6. Place well on production from the Wolfcamp via rod pump.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief

Signature.

Amber Cooke

Printed name: Amber Cooke

Title: Production Engineering Tech

E-mail Address: amber.cooke@apachecorp.com

Date: 06/18/2009

Phone: 918-491-4968

OIL CONSERVATION DIVISION

Approved by:

[Signature]

Title: PETROLEUM ENGINEER

Approval Date:

Expiration Date

JUN 29 2009

Conditions of Approval Attached ☐

**Permit Expires 2 Years From Approval
Date Unless Drilling Underway
Plugback**

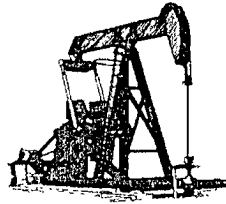
Apache Corporation – L.W. Ward #3

Wellbore Diagram – Current Status

Date: 6/17/09

A Cooke

GL= 3810'



30-025-07232

Surface Location

1983' FSL & 1515' FEL, Sec 11,
T:13S, R:38E, JH Gibson Survey
Lea, NM

Hole Size
= 17-1/2"

TOC @
?

Hole Size
= 12-1/4"

TOC @
2387'

Hole Size
= 8-3/4"

TOC @
6489'

13-3/8" 54# csg @ 319' cmt'd w/450 sx

TUBING DETAIL

Qty	Description	Length	Depth

9-5/8" 36# csg @ 4546' cmt'd w/1500 sx

7" csg 24# @ 11720' cmt'd w/700 sx

Sqz'd Mississippian Perfs: 10,975'-11,000'

Silurian/Devonian Perfs: 11,634'-11,650'

Sqz'd Open Hole

PBTD = 11,770'

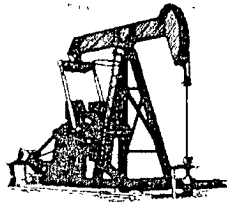
TD = 11,867'

Apache Corporation – L.W. Ward #3

Wellbore Diagram – Proposed Status

Date: 6/17/09
A Cooke

GL= 3810'



30-025-07232

Surface Location

1983' FSL & 1515' FEL, Sec 11,
T:13S, R:38E, JH Gibson Survey
Lea, NM

Hole Size
= 17-1/2"

TOC @
?

Hole Size
= 12-1/4"

TOC @
2387'

Hole Size
= 8-3/4"

TOC @
6489'

13-3/8" 54# csg @ 319' cmt'd w/450 sx

TUBING DETAIL			
Qty	Description	Length	Depth

9-5/8" 36# csg @ 4546' cmt'd w/1500 sx

Wolfcamp Perfs: EST 9,050'-9,186'

CIBP @ +/-10,900' w/2 sx of cmt

Sqz'd Mississippian Perfs: 10,975'-11,000'

Silurian/Devonian Perfs: 11,634'-11,650'

7" csg 24# @ 11,720' cmt'd w/700 sx

Sqz'd Open Hole

PBTD = +/-10,900'

TD = 11,867'

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JUN 22 2009
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State of New Mexico
Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-07232	² Pool Code 7600	³ Pool Name Bronco; Wolfcamp
⁴ Property Code 26474	⁵ Property Name L W Ward	⁶ Well Number 3
⁷ OGRID No. 000873	⁸ Operator Name Apac Corporation	⁹ Elevation 3810' GL

¹⁰ Surface Location

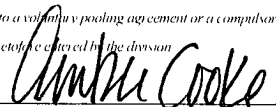
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	11	13S	38E		1983'	South	1515'	East	Lea

¹¹ 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

¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

¹⁶				¹⁷ OPERATOR CERTIFICATION <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>  06/18/2009 Signature _____ Date _____ Amber Cooke Printed Name _____
				¹⁸ SURVEYOR CERTIFICATION <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> Date of Survey _____ Signature and Seal of Professional Surveyor _____ Certificate Number _____

1515'

1983'