

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  
Energy Minerals and Natural Resources

Form C-101  
May 27, 2004

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

Submit to appropriate District Office

☐ AMENDED REPORT

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

<sup>1</sup> Operator Name and Address APACHE CORPORATION 6120 S YALE AVE, SUITE 1500 TULSA, OK 74136		<sup>2</sup> OGRID Number 000873
<sup>3</sup> Property Code 26474		<sup>4</sup> API Number 30 025-07232
<sup>5</sup> Property Name L.W. WARD		<sup>6</sup> Well No. 3
<sup>9</sup> Proposed Pool 1 BRONCO; SILURO (DEVONIAN)		<sup>10</sup> 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/Westline 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/Westline	County
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**Additional Well Information**

<sup>11</sup> Work Type Code A P	<sup>12</sup> Well Type Code O	<sup>13</sup> Cable/Rotary	<sup>14</sup> Lease Type Code P	<sup>15</sup> Ground Level Elevation 3810'
<sup>16</sup> Multiple NO	<sup>17</sup> Proposed Depth TD	<sup>18</sup> Formation	<sup>19</sup> Contractor	<sup>20</sup> Spud Date 05/19/2003
Depth to Groundwater		Distance from nearest fresh water well		Distance from nearest surface water
Pit: Liner: Synthetic <input type="checkbox"/> milst thick Clay <input type="checkbox"/> Pit Volume: _____ bbls Drilling Method: _____				
Closed-Loop System <input type="checkbox"/> Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

**21 Proposed Casing and Cement Program**

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2"	13 3/8"	EST 54#	319'	450	DID NOT CIRC
12 1/4"	9 5/8"	EST 36#	4546'	1500	2387'
8 3/4"	7	EST 24#	11720'	700	6489'

<sup>22</sup> Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the date on the present productive zone and from proposed productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

**OPERATOR OVERSIGHT**

Current profile: This well is Temporarily Abandoned.

Mississippian perfs from 10,975' - 11,000', below CIBP @ 10,900.

Devonian perfs from 11,634 - 11,650', below CIBP @ 11,700'

1. MIRU completion rig. RIH w/ bit and workstring. Drill out plug @ 10,900. Circulate clean and set CIRC.

2. Establish injection through retainer and squeeze Miss perfs @ 10,975~11,000 with 150 Sacks.

3. POOH & WOC.

4. RIH w/ bit and workstring, drill out cement & retainer. Test squeezed perfs to 300 psi. Drill out fill and scale to CIBP's @ 11,622 & 11,700. Continue to clean out hole to PBTD of 11,770.

5. POOH with bit and perforate Devonian interval selected by engineer

6. RIH w/ packer, set @ +/- 11,600 and acidize w/ 5,000 gal 15% NEFE & divert with RS. Swab back load.

7. POOH w/ packer and clean out to PBTD, POOH and run production equipment. RTP.

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☐ a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

Printed name: AMBER COOKE

Title: ENGINEERING TECH

E-mail Address: AMBER.COOKE@APACHECORP.COM

Date: 06/09/2008

Phone: (918)491-4968

**OIL CONSERVATION DIVISION**

Approved by:

*Chris Williams*

Title: **OC DISTRICT SUPERVISOR/GENERAL MANAGER**

Approval Date: **JUN 27 2008**

Expiration Date:

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 October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

* API Number 30-025-07232		* Pool Code 7410	* Pool Name BRONCO; SILURO (DEVONIAN)
* Property Code 26474	* Property Name L.W. WARD		* Well Number 3
* OGRID No. 000873	* Operator Name APACHE CORPORATION		* Elevation 3810' GL

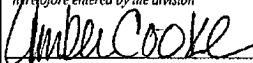
**<sup>10</sup> Surface Location**

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

**<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
* Dedicated Acres 40	* Joint or Infill	* Consolidation Code		* 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.

<div style="text-align: center;">16</div>					<div style="text-align: center;">17</div> <b>OPERATOR CERTIFICATION</b> <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</i> <i>hereby entered by the division</i>  Signature Date 06/06/2008 AMBER COOKE Printed Name
					<div style="text-align: center;">18</div> <b>SURVEYOR CERTIFICATION</b> <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

## Legal Desc

Well Name	LW WARD	Well No. 3
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Field	Bronco; Siluro (Devonian)
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API # 30-025-07232

County	Lea
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State	New Mexico
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Date 6/6/2008

Section 11

Township 13S

Range	38E
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Elevation	3810' GL
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**KB согг**

Description	O.D.	Grade	Weight	Depth	Cmt Sx	TOC	Hole Size
Surface Csg	13 3/8"		54#	319'	450	?	17 1/2"
Inter Csg	9 5/8"		36#	4546'	1,500	2387'	12 1/4"
Prod Csg	7"		24#	11720'	700	6489'	8 3/4"
Tubing							

Hole 17 1/2"	TOC ?
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Hole 12 1/4"
TOC at 2387'

Hole 8 3/4"	
TOC at 6489'	

[illegible]

### Formation Record

FORMATION	DEPTH

## Perforations

UPPER	LOWER

PBTD @ 11770'  
TD @ 11867'

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

**Devonian Perfs: 11,634' - 11,650'**

## Legal Desc

Well Name	LW WARD	Well No. 3
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Field	Bronco; Siluro (Devonian)
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API # 30-025-07232

County

State	New Mexico
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Date 6/6/2008

Section 11

Township 13S

Range

Elevation	3810' GL
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KB corr

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Tubing							

Hole 17 1/2"
TOC ?

Hole 12 1/4"	
TOC at 2387'	

Hole 8 3/4"
TOC at 6489'

[illegible]

### Formation Record

FORMATION	DEPTH

## Perforations

UPPER	LOWER

PBTD @ 11770'  
TD @ 11867'

**CIBP: 10,900'**

**Mississippian Perfs: 10,975' - 11,000'**

**CIBP: 11,622'**

**CIBP: 11,700'**

**Devonian Perfs: 11,634' - 11,650'**