

Submit 1 Copy To Appropriate District Office  
 District I - (575) 393-6161  
 1625 N. French Dr., Hobbs, NM 88240  
 District II - (575) 748-1283  
 811 S. First St., Artesia, NM 88210  
 District III - (505) 334-6178  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 District IV - (505) 476-3460  
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
 Energy, Minerals and Natural Resources

Form C-103  
 Revised July 18, 2013

OIL CONSERVATION DIVISION  
 1220 South St. Francis Dr.  
 Santa Fe, NM 87505

WELL API NO. 30-025-35855
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Wade F Curry (309145)
8. Well Number 005
9. OGRID Number 873
10. Pool name or Wildcat Hardy; Bli (29710)/Hardy; Tu-Drkd (29760)

**SUNDRY NOTICES AND REPORTS ON WELLS**  
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well  Gas Well  Other

2. Name of Operator  
Apache Corporation

3. Address of Operator  
303 Veterans Airpark Lane, Suite 1000 Midland, TX 79705

4. Well Location  
 Unit Letter B : 660 feet from the North line and 1780 feet from the East line  
 Section 7 Township 21S Range 37E NMPM County Lea

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
3509' GL

HOBBS 002  
 AUG 25 2014  
 RECEIVED

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input checked="" type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Apache would like to DHC the following pools: *Per R-order 11363*

Pool Names:	Perforations:
Hardy; Blinebry 29710	Blinebry 5762'-6148' (proposed)
Hardy; Tubb-Drinkard 29760	Tubb/Drinkard 6415'-6831' (existing)

The allocation method will be as follows based on offset production. (See attached application for exception to Rule 303-C.)

	OIL	GAS	WATER
Blinebry	93%	99%	99%
Tubb/Drinkard	7%	1%	1%

Downhole commingling will not reduce the value of these pools. Ownership is the same for each of these pools.

Spud Date: 6/25/2002 Rig Release Date: 7/11/2002

*DHC - HOB - 528*

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

SIGNATURE Reesa Fisher TITLE Sr. Staff Reg Analyst DATE 8/21/2014

Type or print name Reesa Fisher E-mail address: Reesa.Fisher@apachecorp.com PHONE: (432) 818-1062

**For State Use Only**

APPROVED BY: *[Signature]* TITLE \_\_\_\_\_ DATE 09/04/14  
 Conditions of Approval (if any): \_\_\_\_\_

*dm*

## Mae F. Curry #5 (API: 30-025-35855)

### Downhole Commingle Application Discussion

---

#### Summary

The Mae F. Curry #5 (API: 30-025-35855) is located at 660' FNL & 1780' FEL of Section 7, Township 21S & Range 37E, Lea County, NM. The well was drilled in June 2002, and completed and placed on production from the Hardy Tubb-Drinkard in September 2002. It is now planned to complete the Mae F. Curry #5 in the Hardy Blinebry pool, and we request approval to downhole commingle the Hardy Tubb-Drinkard and Hardy Blinebry pools in this well.

#### Discussion

The Hardy-Tubb Drinkard has been producing in the Mae F. Curry #5 since September 2002 and is currently producing at a rate of approximately 4.9 BOPD, 8.9 MCFD, and 4.8 BWPD. Estimated remaining recoverable reserves from the Hardy-Tubb Drinkard are estimated to be 2.4 MBO, 3.6 MMCF, along with 2.6 MBW (see attachments). Remaining oil reserves were determined using decline curve analysis, with remaining gas reserves forecast using a gas-oil ratio of 1.5 MMCF/MB (average over the last 12-months) and remaining water production forecast at a water-oil ratio of 1.1 MBW/MBO (average over the last 12-months).

The Hardy Blinebry has not been completed in the Mae F. Curry #5, however it has been completed and produced commercially from several offset wells, with the average ultimate reserve recovery from the Hardy Blinebry for six of these offset wells estimated to be 32 MBO, 276.1 MMCF, along with 178.6 MBW. These offsets were chosen for evaluation due to their proximity and to the Mae F. Curry #5 and availability of quality production data for the Hardy Blinebry. Based on well logs, the performance of the Hardy Blinebry in the Mae F. Curry #5 is expected to be comparable to these offsets.

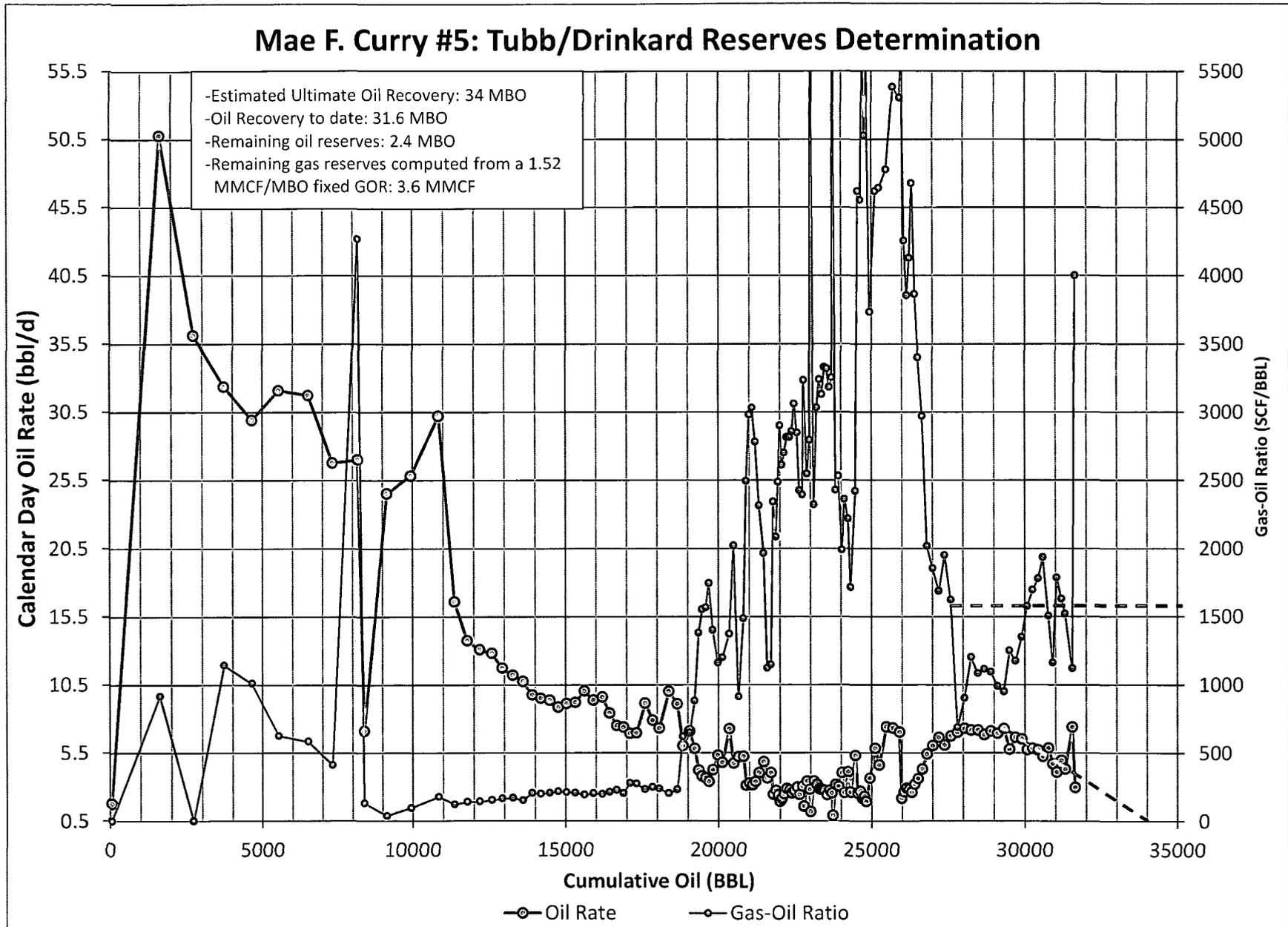
Using the estimated remaining reserve recovery for the Hardy Tubb-Drinkard in the Mae F. Curry #5, and the expected reserve recovery for completing the Hardy Blinebry in the Mae F. Curry #5, a fixed allocation percentage allocation is recommended for the Mae F. Curry #5 as follows:

<b>Mae F. Curry #5: Proposed Allocation Percentages</b>			
<b>Pool</b>	<b>Fluid</b>	<b>Expected Recovery</b>	<b>Percent Allocation</b>
Hardy Blinebry	Oil	32.0 MBO	93.1%
	Gas	276.1 MMCF	98.7%
	Water	178.6 MBW	98.6%
Hardy Tubb-Drinkard	Oil	2.4 MBO	6.9%
	Gas	3.6 MMCF	1.3%
	Water	2.6 MBW	1.4%

## **Attachments**

- A1. Mae F. Curry #5 Production Plot and Remaining Reserve Determination
- A2. Hardy Blinbry Reserve Determination for Offset Wells
- A3. Mae F. Curry #5 Area Map

# A1. Mae F. Curry #5 Production Plot and Remaining Reserve Determination



## A2. Hardy Blinebry Reserve Determination for Offset Wells

Lease	Well No.	API	Hardy Blinebry Production Dates		Hardy Blinebry Cumulative Production to Date			Hardy Blinebry Estimated EUR*			Hardy Blinebry Peak IP30		
			Start	End	Oil (BBL)	Gas (MCF)	Water (BBL)	Oil (BBL)	Gas (MCF)	Water (BBL)	(BOPD)	(MCFD)	
State F-1	1	30-025-35176	May-03	Mar-14	22,292	176,549	203,788	33,000	310,000	400,815	21.2	105.6	
State F-1	10	30-025-27034	Sep-86	Nov-96	34,999	213,861	35,987	40,500	444,500	39,288	32.2	151.5	
State F-1	11	30-025-35466	Jan-04	Mar-14	23,807	113,016	168,201	38,000	160,000	199,426	18.4	44.2	
State F-1	15	30-025-35771	Jan-04	Mar-14	23,526	176,395	57,162	32,000	330,000	98,685	11.6	59.6	
Deck Estate 7	1	30-025-33677	Apr-05	Mar-14	40,654	134,624	35,459	105,000	320,000	86,936	23.6	64.6	
WBDU	25	30-025-26265	Jul-80	Feb-07	21,939	186,114	24,738	25,000	280,000	30,554	19.9	79.7	
H.T. Mattern NCT-C	12	30-025-25547	Mar-78	Sep-87	20,679	131,604	194,812	23,500	132,000	302,856	18.8	156.7	
					<b>Mean**</b>	<b>24,540</b>	<b>166,257</b>	<b>114,115</b>	<b>32,000</b>	<b>276,083</b>	<b>178,604</b>	<b>20.4</b>	<b>99.6</b>
					<b>P50**</b>	<b>22,909</b>	<b>176,472</b>	<b>112,682</b>	<b>32,500</b>	<b>295,000</b>	<b>149,055</b>	<b>19.4</b>	<b>92.7</b>

\*Oil and gas EUR forecast using decline curve analysis. Water forecast using last 12 months average WOR

\*\*Deck Estate 7 #1 excluded from mean and P50 calculations

Lease	Well No.	API	Notes
State F-1	1	30-025-35176	Blinebry placed on production DHC with Tubb/Drinkard May 2003
State F-1	10	30-025-27034	Well produced from the Blinebry only from September 1986 to November 1996
State F-1	11	30-025-35466	Blinebry completed and zone tested to determine allocation. Placed on production DHC with Tubb/Drinkard January 2004
State F-1	15	30-025-35771	Blinebry completed and zone tested to determine allocation. Placed on production DHC with Tubb/Drinkard January 2004
Deck Estate 7	1	30-025-33677	Blinebry completed and zone tested to determine allocation. Placed on production DHC with Drinkard April 2005
WBDU	25	30-025-26265	Blinebry completed and zone tested to determine allocation. Placed on production DHC with Drinkard February 1981
H.T. Mattern NCT-C	12	30-025-25547	Blinebry completed and zone tested to determine allocation. Placed on production DHC with Drinkard January 1979



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

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

**RECEIVED** AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number 30-025-35855		<sup>2</sup> Pool Code 29710		<sup>3</sup> Pool Name Hardy; Blinebry	
<sup>4</sup> Property Code 309145		<sup>5</sup> Property Name Mae F Curry			<sup>6</sup> Well Number 005
<sup>7</sup> OGRID No. 873		<sup>8</sup> Operator Name Apache Corporation: 303 Veterans Airpark Lane, Suite 1000 Midland, TX 79705			<sup>9</sup> Elevation 3509' 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
B	7	21S	37E		660	North	1780	East	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		<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> Order No. DHC-HOB-528			

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				<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><i>Reesa Fisher</i> 08/21/2014 Signature Date</p> <p>Reesa Fisher Printed Name</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>	

State of New Mexico

Energy, Minerals and Natural Resources Department

HOBBS OCD

Form C-102

DISTRICT I  
P.O. Box 1988, Hobbs, NM 88241-1988

Revised February 10, 1984

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION

Submit to Appropriate District Office

P.O. Box 2088

State Lease - 4 Copies

DISTRICT III  
1000 Rio Brazos Rd., Artec, NM 87410

Santa Fe, New Mexico 87504-2088

Fee Lease - 3 Copies

RECEIVED

DISTRICT IV  
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

API Number 30-025-35855	Pool Code 29760	Pool Name Hardy (Tubb - Drinkard)
Property Code 29451	Property Name Mae F. CURRY	Well Number 5
OCRID No. 060778	Operator Name BP America Production Company	Elevation 3509'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	7	21-S	37-E		660	NORTH	1780	EAST	LEA

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.: DHC - HOB - 528

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

LOT 1 36.63 AC									
LOT 2 36.65 AC LOT 3	GEOGRAPHIC LOCATION NAD 27 Y= 547029.8 X= 849729.7 LAT. 32°29'55.61"N LONG 103°11'56.41"W								
LOT 4 36.67 AC									
36.69 AC									

**OPERATOR CERTIFICATION**

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

*Amy T. Spang*  
Signature

Amy T. Spang  
Printed Name

Regulatory Analyst  
Title

3/4/02  
Date

---

**SURVEYOR CERTIFICATION**

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.

FEBRUARY 20, 2002  
Date Surveyed

AWB  
Signature & Seal of Professional Surveyor

*Ronald J. Edson*  
2/23/02  
02.11.0147

Certificate No. RONALD J. EDSON 3239  
GARY EDSON 12641