

pDSM1424623804

Order Number	API Number	Operator	County				
DHC HOB-528	30- 025-35855	APACHE CORP	LEA				
Order Date	Well Name	Number	Location				
08/29/2014	MAE F CURRY	005.	B UL	7 Sec	21S T (+Dir)	37E R (+Dir)	
		Oil %	Gas %	Wtr %			
Pool 1	29710	HARDY; BLINEBRY	93%	99%			
Pool 2	29760	HARDY; TUBB-DRINKARD	7%	1%			
Pool 3							
Pool 4							
Comments: Entered into ABQMS 9/03/14 dn							

POSTED BY & WHEN dm 9/3/2014

ORDER NUMBER DHC-HOB-528 API NUMBER 30-025-35855 OPERATOR APACHE CORP COUNTY/LEASE LEA / FEE
ORDER DATE 08/28/2014 WELL NAME MAE F CURRY WELL # 005 UL B SEC 7 T(+Dir) 21S R(+Dir) 37E

		OIL %	GAS%	WTR%
POOL 1	<u>29710</u> <u>HARDY; BLINEBRY</u>	<u>93%</u>	<u>99%</u>	
POOL 2	<u>29760</u> <u>HARDY; TUBB-DRINKARD</u>	<u>7%</u>	<u>1%</u>	
POOL 3				
POOL 4				

DOWNHOLE COMMINGLE CALCULATIONS:

SECTION I

ALLOWABLE AMOUNTS

POOL 1	<u>HARDY; BLINEBRY</u>	<u>107</u>	<u>214</u>	MCF
POOL 2	<u>HARDY; TUBB-DRINKARD</u>	<u>142</u>	<u>852</u>	MCF
POOL 3				MCF
POOL 4				MCF
POOL TOTALS		<u>249</u>	<u>1066</u>	

SECTION II:

OIL

GAS

POOL 1 HARDY; BLINEBRY 93%
POOL 2 HARDY; TUBB-DRINKARD 7% x 249 = 17.43
POOL 3 _____
POOL 4 _____

SECTION III: OIL 7% ÷ 142 = 2028.57 ⁽²⁰²⁹⁾ GAS

SECTION IV: 93% x 2029 = 1886.97 ⁽¹⁸⁸⁷⁾
7% x 2029 = 142.03 ⁽¹⁴²⁾

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 Clyde 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 OGD
 AUG 25 2014
 RECEIVED

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

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

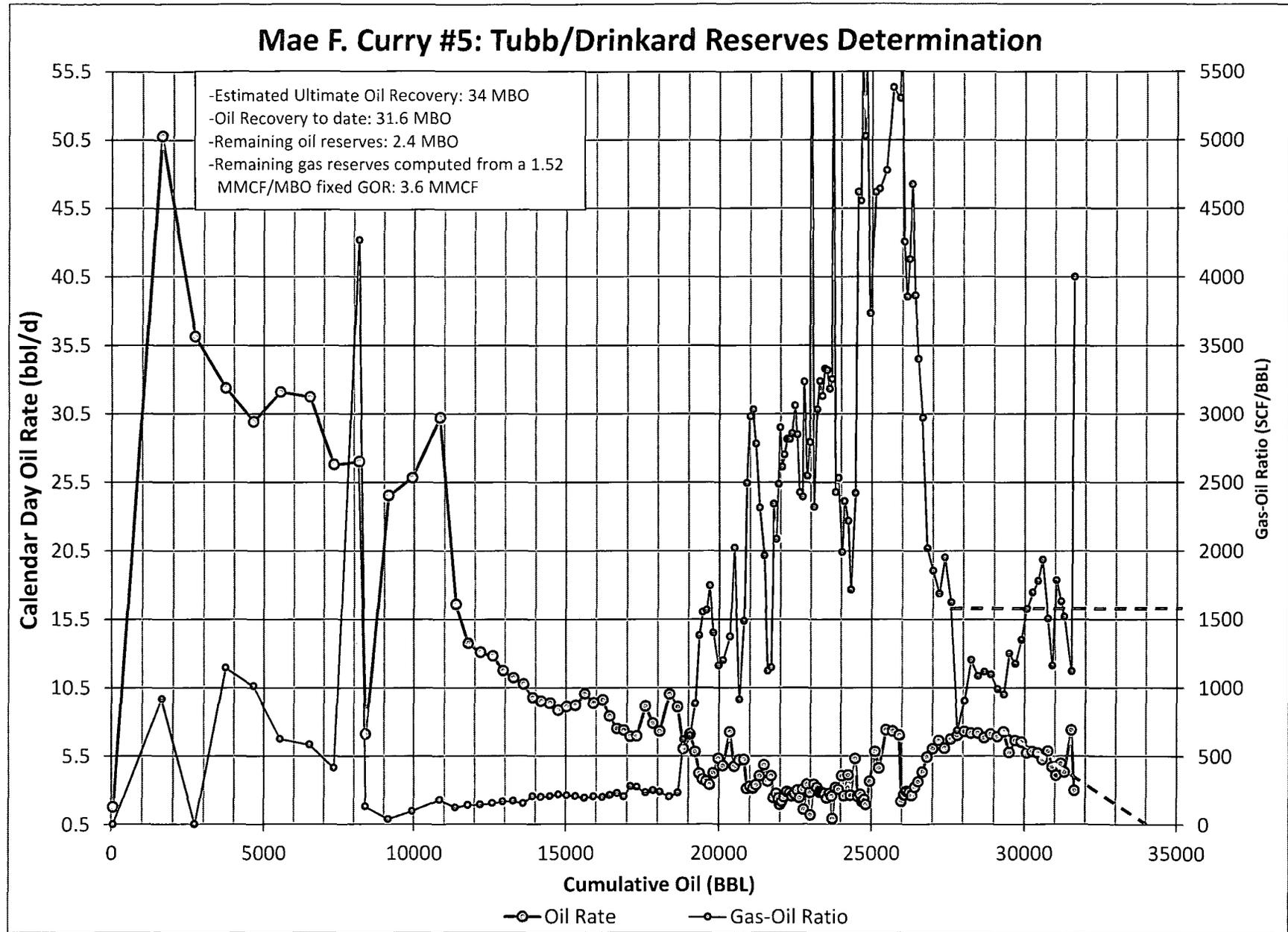
Using the estimated remaining reserve recovery for the Hardy Tubb-Drinkard in the Mae F. Curry #5, and the expected reserve recovery for completing the Hardy Blinebry in the Mae F. Curry #5, a fixed allocation percentage allocation is recommended for the Mae F. Curry #5 as follows:

Mae F. Curry #5: Proposed Allocation Percentages			
Pool	Fluid	Expected Recovery	Percent Allocation
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

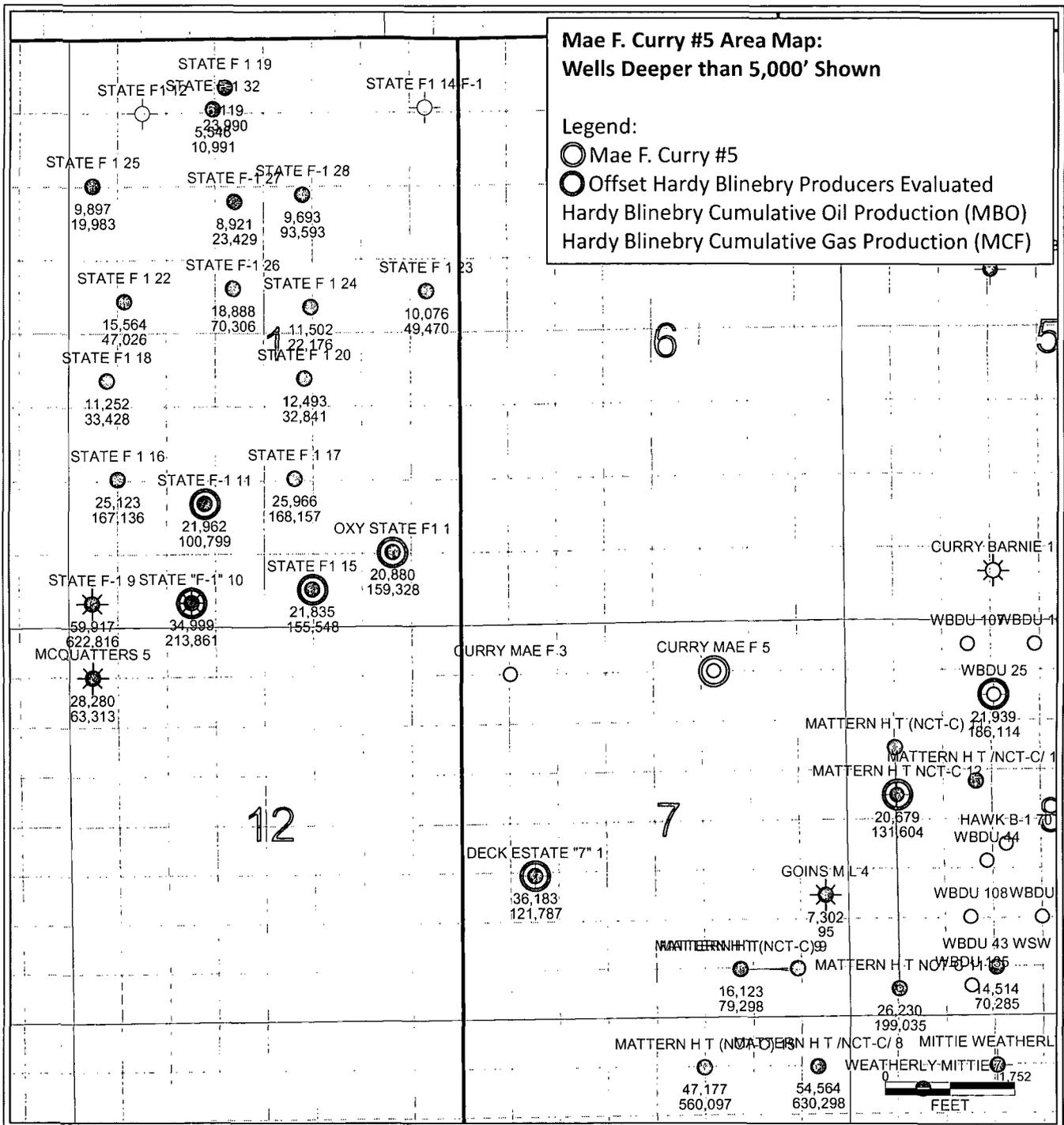
Lease	Well No.	API	Hardy Blinebry Production Dates		Hardy Blinebry Cumulative Production to Date			Hardy Blinebry Estimated EUR*			Hardy Blinebry Peak IP30		
			Start	End	Oil (BBL)	Gas (MCF)	Water (BBL)	Oil (BBL)	Gas (MCF)	Water (BBL)	(BOPD)	(MCFD)	
State F-1	1	30-025-35176	May-03	Mar-14	22,292	176,549	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	
					Mean**	24,540	166,257	114,115	32,000	276,083	178,604	20.4	99.6
					P50**	22,909	176,472	112,682	32,500	295,000	149,055	19.4	92.7

*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

A1. Mae F. Curry #5 Area Map



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
HOBBES OGD
AUG 25 2014
RECEIVED AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-35855	² Pool Code 29710	³ Pool Name Hardy; Blinebry
⁴ Property Code 309145	⁵ Property Name Mae F Curry	
⁷ OGRID No. 873	⁸ Operator Name Apache Corporation: 303 Veterans Airpark Lane, Suite 1000 Midland, TX 79705	⁶ Well Number 005
		⁹ Elevation 3509' 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
B	7	21S	37E		660	North	1780	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. 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>¹⁷ 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>¹⁸ 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>	

HOBBS OCD

Form C-102

Revised February 10, 1994

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

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

DISTRICT III
1000 Rio Bravo Rd., Artesia, NM 87410

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

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies
AUG 25 2014

RECEIVED

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
OGRID 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
40									
Dedicated Acres					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	GEOGRAPHIC LOCATION NAD 27 Y= 547029.8 X= 849729.7 LAT. 32°29'55.61"N LONG 103°11'56.41"W								
LOT 3 36.67 AC									
LOT 4 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

Ronald J. Edson
Signature & Seal of Professional Surveyor

02.11.0147

Certificate No. RONALD J. EDSON 3239
GARY EDSON 12641