

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 74136-4224		<sup>2</sup> OGRID Number 00873
		<sup>4</sup> API Number 30 025-36784
<sup>3</sup> Property Code 302327	<sup>5</sup> Property Name B M Marcus	<sup>6</sup> Well No. 004
<sup>9</sup> Proposed Pool 1 Warren; Tubb (Oil)		<sup>10</sup> Proposed Pool 2 Blinebry Oil & Gas

**7 Surface Location**

UL or lot no. C	Section 20	Township 20S	Range 38E	Lot Idn	Feet from the 330	North/South line North	Feet from the 1980	East/Westline West	County Lea
--------------------	---------------	-----------------	--------------	---------	----------------------	---------------------------	-----------------------	-----------------------	---------------

**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
---------------	---------	----------	-------	---------	---------------	------------------	---------------	---------------	--------

**Additional Well Information**

<sup>11</sup> Work Type Code A	<sup>12</sup> Well Type Code O	<sup>13</sup> Cable/Rolary	<sup>14</sup> Lease Type Code P	<sup>15</sup> Ground Level Elevation 3,552'
<sup>16</sup> Multiple Yes	<sup>17</sup> Proposed Depth 7,525' TD / +/- 7,040' PBD	<sup>18</sup> Formation Blinebry/Tubb/Drinkard	<sup>19</sup> Contractor	<sup>20</sup> Spud Date OPEN
Depth to Groundwater		Distance from nearest fresh water well		Distance from nearest surface water
Pit: Liner: Synthetic <input type="checkbox"/> milsthick Clay <input type="checkbox"/>		Pit Volume: bbls		
Closed-Loop System <input type="checkbox"/>		Drilling Method: 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
11"	8-5/8"	24#	1503'	750	0', circ
7-7/8"	5-1/2"	17#	7060'	1960	TOC @ 1350'

<sup>22</sup> 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:**

Abo Open hole fr/ 7059' - 7525' plugged back w/ CIBP @ 7040'  
Drinkard perforations fr/ 6798' - 6898', currently producing

Apache proposes to recomplete this well to include the Blinebry/Tubb/Drinkard via the following procedure:

1. MIRU pulling unit. Clean out to PBTD @ +/- 7040'. POH w/ tbg. RIH w/ RBP and set @ 6700'.
2. RU wireline and perforate Tubb at interval selected by engineer.
3. Acidize and fracture treat Tubb interval. Clean out well. Set RBP @ 6300'.
4. RU wireline and perforate Blinebry at interval selected by engineer.
5. Acidize and fracture treat Blinebry interval. Clean out well and retrieve all RBP's.
6. RWTP from Blinebry/Tubb/Drinkard.

Allocation based on well tests, subtraction tests and fixed percentages from offset production.

Attached reservoir data to support commingling percentage of incremental production.

Please refer to R-11363 ~~HOB-0067~~.

<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: Sophie Mackay

Title: Engineering Tech

E-mail Address: sophie.mackay@apachecorp.com

Date: 09/27/2007

Phone: (918)491-4864

**OIL CONSERVATION DIVISION**

Approved by:

*Chris Williams*

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

Approval Date: **SEP 28 2007** Expiration Date:

Conditions of Approval: Approval to recomplete & test new zone, but cannot produce Downhole commingle until DHC is approved in Hobbs District office according to R-11363.

Permit Expires 1 Year From Approval  
Date Unless Drilling Underway

*Adding Zones*

ALLOCATION OF PRODUCTION OF BM MARCUS#4 WELL  
(ALLOCATION BY ZONE FOR TUBB AND BLINEBRY ZONES BASED ON OFFSET PRODUCERS)

WARREN TUBB			
Well Name	Reserves		Water
	MBO	MMCF	MBW
B.M. Marcus #2 (S Offset)	109	142	16
B.M. Marcus #3 (E Offset)	100	194	54
Burger B20 #1 (S Offset)	60	66	8
SEMU Tubb A#113 (SW Offset)	140	365	26
Fred Turner B #3 (N Offset)	15	47	11
TOTAL	424	814	115
AVERAGE	84.8	162.8	23
ALLOCATION PERCENTAGE	63%	37%	22%

BLINEBRY OIL AND GAS			
Well Name	Reserves		Water
	MBO	MMCF	MBW
B.M. Marcus #2 (S Offset)	37	153	79
B.M. Marcus #3 (E Offset)	24	143	13
Burger B20 #1 (S Offset)	43	108	221
SEMU Tubb A#113 (SW Offset)	42	563	35
Fred Turner B #3 (N Offset)	103	403	68
TOTAL	249	1370	416
AVERAGE	49.8	274	83.2
ALLOCATION PERCENTAGE	37%	63%	78%

TOTAL FOR ALL ZONES	673	2184	531
---------------------	-----	------	-----

**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

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

<sup>1</sup> API Number 30-025-36784		<sup>2</sup> Pool Code 6660	<sup>3</sup> Pool Name Blinebry Oil & Gas
<sup>4</sup> Property Code 302327	<sup>5</sup> Property Name B M Marcus		<sup>6</sup> Well Number 004
<sup>7</sup> OGRID No. 00873	<sup>8</sup> Operator Name Apache Corporation		<sup>9</sup> Elevation 3552'

**<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
C	20	20S	38E		330	North	1980	West	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.					

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;"> <sup>16</sup> 1980         </div>	<div style="text-align: center;"> <sup>17</sup> 330         </div>	<b><sup>17</sup> 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 heretofore entered by the division</i>	
		Signature <i>Sophie Mackay</i>	Date 09/27/2007
		Printed Name Sophie Mackay	
		<b><sup>18</sup> 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	

**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

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

* API Number 30-025-36784		* Pool Code 63280	* Pool Name Warren; Tubb (Oil)
* Property Code 302327	* Property Name B M Marcus		* Well Number 004
* OGRID No. 00873	* Operator Name Apache Corporation		* Elevation 3552'

**<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
C	20	20S	38E		330	North	1980	West	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

* 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.

16					<b><sup>17</sup> 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 entered by the division.
					Signature: <u>Sophie Mackay</u> Date: <u>09/27/2007</u> Printed Name: <u>Sophie Mackay</u>
					<b><sup>18</sup> 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.
					Date of Survey: Signature and Seal of Professional Surveyor:
					Certificate Number

1220 S. St. Francis Dr., Santa Fe, NM 87505

16	330			<p>17 <b>OPERATOR CERTIFICATION</b></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><u>Sophie Mackay</u>      <u>09/27/2007</u>  Signature      Date</p> <p><u>Sophie Mackay</u>  Printed Name</p>
1980				<p>18 <b>SURVEYOR CERTIFICATION</b></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>