

p NRM 0334355237

C-103 Received 11-17-03

DHC No. Assigned 12-9-03

Order Number HOB-0062		API Number 30-025-10218		Operator 14021 Marathon Oil Company		County Lea	
Order Date		Well Name 6488 Lou Worthan		Number 009		Location	
						E UL	11 Sec
						22S T (+Dir)	
						37E R (+Dir)	
Pool 1	06660	Blinbry Oil+Gas (Oil)		Oil % 100%	Gas % 80%		
Pool 2	60240	Tubb Oil+Gas (Oil)		0%	20%		
Pool 3							
Pool 4							
Comments: Work completed effective _____ Work cancelled effective _____ Supplement _____							

12-9-2003  
Posted to  
RBDMS

DOWNHOLE COMMINGLE CALCULATIONS:

30-025-10218  
HOB-0062

OPERATOR: Marathon Oil Company

PROPERTY NAME: Lou Worthan

WNULSTR: 9-E, 11-22-37

SECTION I:		ALLOWABLE AMOUNT	
06660	POOL NO. 1 <u>B Linebry Oil+Gas (Oil)</u>	<u>107</u>	<u>428</u> MCF <u>4000</u>
60240	POOL NO. 2 <u>Tubb Oil+Gas (Oil)</u>	<u>142</u>	<u>284</u> MCF <u>2000</u>
	POOL NO. 3 _____	_____	_____ MCF
	POOL NO. 4 _____	_____	_____ MCF
POOL TOTALS		<u>249</u>	<u>712</u>

SECTION II:		Oil	Gas
ABLI 40000	POOL NO. 1 <u>B Linebry Oil+Gas (Oil)</u>	100% X 249 = 249	80%
ATUB 50000	POOL NO. 2 <u>Tubb Oil+Gas (Oil)</u>	0%	20%
	POOL NO. 3 _____		
	POOL NO. 4 _____		

<u>OIL</u>	<u>GAS</u>
SECTION III: <u>107 ÷ 100% = 107</u>	_____
SECTION IV: <u>107 X 100% = 107</u>	_____
<u>107 X 0% = 0</u>	_____
_____	_____
_____	_____

Submit 3 Copies To Appropriate District Office  
 District I  
 1625 N. French Dr., Hobbs, NM 88240  
 District II  
 301 W. Grand Ave., 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 and Natural Resources

Form C-103  
 Revised June 10, 2003

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

WELL API NO. 30-025-10218
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 Lou Worthan
8. Well Number #9
9. OGRID Number
10. Pool name or Wildcat Blinebry & Tubb
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,366' - GL

**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  
 Marathon Oil Company

3. Address of Operator  
 P.O. Box 552 Midland, TX 79702

4. Well Location  
 Unit Letter E : 1,905' feet from the North line and 440' feet from the West line  
 Section 11 Township 22s Range 37E NMPM Lea County

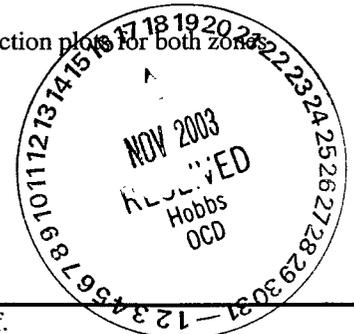
12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

<b>NOTICE OF INTENTION TO:</b>	<b>SUBSEQUENT REPORT OF:</b>
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
PLUG AND ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
CHANGE PLANS <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
DRILL OR ALTER CASING <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>
MULTIPLE COMPLETION <input checked="" 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 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Marathon Oil Company requests authorization to downhole commingle the Blinebry & Tubb pools in the Lou Worthan #9. The scope of the proposed workover is to drill out bridge plugs to reactivate a temporarily abandoned Tubb zone, add selective perforations in the Blinebry from 5,330' - 5,600' and place the well on rod pump.

Please find attached a detailed procedure of the planned work, a wellbore diagram, and production plots for both zones.



DHC Order No. HOB-0062

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

SIGNATURE B. Lockhart TITLE Engineer DATE 11/12/03

Type or print name Brent Lockhart E-mail address: BDLockhart@MarathonOil.com Telephone No. 432-687-8284

APPROVED BY PAUL F. KAUTZ DATE DEC 10 2003  
 Conditions of approval, if any: PETROLEUM ENGINEER

**Lou Worthan Well No. 09  
DHC Attachment**

- i) Pre-approved pool status was established by Division Order R-11363
- ii) Blinebry Oil & Gas – Oil (6660) & Tubb Oil & Gas – Oil (60240)
- iii) Blinebry Oil & Gas – Oil (5,330' – 5,750' and HDH @ TVD 5,650' – 5,750')  
& Tubb Oil & Gas – Oil (5,885' – 6,060')
- iv) Blinebry Oil & Gas – Oil (80% gas & 100% oil) & Tubb Oil & Gas – Oil  
(20% gas & 0% oil). Supported from tests prior to temporary abandonment.
- v) The proposed commingling will not reduce the value of the total remaining  
production
- vi) The ownership and percentages are identical for the zones

**Workover Procedure  
Lou Worthan Well No. 9  
1,905' FNL & 440' FWL, Unit E  
Section 11, T-22-S, R-37-E  
Lea County, New Mexico**

**Date:** 11/12/2003

**WBS #s:**

**AFE Cost:** \$60,000

**WI:** 100.0%    **NRI:** 87.5%

**Elevation:**    **GL:** 3,366'    **KB:** 3,375'    **TD:** 6,462'

**Purpose:**    **Add Upper Blinebry and downhole commingle w/ HDH in Lower Blinebry and Tubb & Place on rod pump**

**Surface Casing:** 13-3/8", 48#, H-40 casing set at 282'.

**Intermediate Casing:** 8-5/8", 32# casing set at 2,799'.

**Production Casing:** 5-1/2", 17# casing set at 6,417'.

**Tubing:**    2-3/8" J-55 tbg, on/off tool, 5-1/2" Baker Lok-Set packer, F Nipple, 5 jts 2-3/8" CS Hydrill

**Current Completion:**    **Lower Blinebry**    HDH drilled at TVD of 5,650' – 5,750'  
Whipstock at 5,620'  
Well is on plunger lift

**Squeezed Perforations:**    **Upper Blinebry**    5,330-5,430 & 5,455-5,502 (4 spf)  
5,535-37, 5,565-5,600 (2 spf)

**TA Perforations (CIBP):**    **Lower Blinebry**    5,630-35, 55-65, 80-90  
5,715-20, 25-35, 40-50 (2 spf)

**TA Perforations (CIBP):**    **Tubb**    5,885-5,938, 48-71, 5,980-6,004 15-33, 42-60 (4 spf)

**Special Considerations:**    Use limited amounts of 2% KCL for kill fluid.  
Verify current tbg tally w/Hobbs office prior to RU.

**Procedure:**

1. Inspect surface location and improve if necessary. Test safety anchors to 22,500#.
2. Catch plunger at surface.
3. MIRU WOR and reverse unit. Kill well w/limited amounts of 2% KCl.
4. ND wellhead. NU 3M BOPE. Release packer and POOH w/2-3/8" tbg string. Visually inspect and replace as necessary.
5. TIH w/retrieving head for Baker bottom trip retrievable whipstock assembly, drill collars, bumper sub on 2-3/8" tbg. Latch onto whipstock at 5,620' and POOH w/ whipstock.
6. TIH w/ 4-3/4" bit, drill collars on 2-3/8" tbg and drill out CIBPs at 5,625 & 5,820', Drill/push CIBPs to PBTD of ~ 6,142'. POOH w/drilling BHA..
7. MIRU Baker Atlas and lubricator. Test lubricator to 1,000 psi. RIH with 4-1/2" carrier loaded with TAG 5000 382 GH 39 gram charges ( EH: 0.46" Pen: 37.4"). Perforate Upper Blinebry with 4 JSPF, 90 deg. from 5,330'-5,430', 5,455'-5,505', 5,535-5,557' & 5,565'-5,600' (868 holes). POOH. RD Baker Atlas.
8. TIH w/5-1/2" washtool. RU Acid Company. Acidize new Blinebry perforations w/ 50 gals/ft of 15% NEFE acid (total of 11,000 gals). Flush w/ 2% KCl water. RD Acid Company. Swab back acid load. TOH w/washtool.
9. TIH w/mud anchor, SN, 2-3/8" tbg, 5-1/2" TAC on 2-3/8" production tbg. Space out tubing w/SN ~6,100 and TAC at 6,450'.
10. ND BOPE and NU wellhead. TIH w/pump & rods. Space out pump. Hang well on. Connect surface equipment. RD WOR and MOL. Start pumping well to production facilities.

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1625 N. French Dr., Hobbs, NM 88240  
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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 June 10, 2003  
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 30-025-10218		<sup>2</sup> Pool Code 6660		<sup>3</sup> Pool Name Blinebry Oil & Gas (Oil)	
<sup>4</sup> Property Code 6488		<sup>5</sup> Property Name Lou Worthan			<sup>6</sup> Well Number 9
<sup>7</sup> OGRID No. 14021		<sup>8</sup> Operator Name Marathon Oil Company			<sup>9</sup> Elevation KB 3,366'

<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
E	11	22-S	37E		1,905'	North	440'	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>13</sup> Dedicated Acres 80		<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

	<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.</i></p> <p>Signature Brent Lockhart Printed Name Engineer BDLockhart@MarathonOil.com Title and E-mail Address 3/1/04 Date</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 Signature and Seal of Professional Surveyor Certificate Number</p>

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Form C-102  
Revised June 10, 2003  
Submit to Appropriate District Office  
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Fee Lease - 3 Copies

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number 30-025-10218		<sup>2</sup> Pool Code 60240		<sup>3</sup> Pool Name Tubb Oil & Gas (Oil)	
<sup>4</sup> Property Code 6488		<sup>5</sup> Property Name Lou Worthan			<sup>6</sup> Well Number 9
<sup>7</sup> OGRID No. 14021		<sup>8</sup> Operator Name Marathon Oil Company			<sup>9</sup> Elevation KB 3,366'

<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
E	11	22-S	37E		1,905'	North	440'	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.
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<sup>16</sup> 				<sup>17</sup> <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</i>  Signature  Brent Lockhart Printed Name Engineer BDLockhart@MarathonOil.com Title and E-mail Address 12/10/03 Date
				<sup>18</sup> <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