

p NRM 0334355237

C-103 Received 11-17-03
DHC No. Assigned 12-9-03

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

12-9-2003

Posted to
RBDMS

B

DOWNHOLE COMMINGLE CALCULATIONS:

30-025-10218

OPERATOR: Marathon Oil Company

HOB-0062

PROPERTY NAME: Lou Worthan

WNULSTR: 9-E, 11-22-37

SECTION I:

06660

POOL NO. 1 B Linebry Oil+Gas (Oil)

ALLOWABLE AMOUNT

107

428

MCF

4000

60240

POOL NO. 2 Tubb Oil+Gas (Oil)

142

284

MCF

2000

POOL NO. 3 _____

MCF

POOL NO. 4 _____

MCF

POOL TOTALS 249

712

SECTION II:

ABLI 40000

POOL NO. 1 B Linebry Oil+Gas (Oil)

Oil

Gas

100% X 249 = 249

80%

ATUB 50000

POOL NO. 2 Tubb Oil+Gas (Oil)

0%

20%

POOL NO. 3 _____

POOL NO. 4 _____

OIL

GAS

SECTION III:

$107 \div 100\% = 107$

SECTION IV:

$107 \times 100\% = 107$

$107 \times 0\% = 0$

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

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 <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>	
2. Name of Operator Marathon Oil Company	
3. Address of Operator P.O. Box 552 Midland, TX 79702	
4. Well Location Unit Letter <u>E</u> : <u>1,905'</u> feet from the <u>North</u> line and <u>440'</u> feet from the <u>West</u> line Section <u>11</u> Township <u>22s</u> Range <u>37E</u> NMPM Lea County	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,366' - GL	

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

NOTICE OF INTENTION TO:

- PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
DRILL OR ALTER CASING ☐ MULTIPLE COMPLETION ☒
OTHER: ☐

SUBSEQUENT REPORT OF:

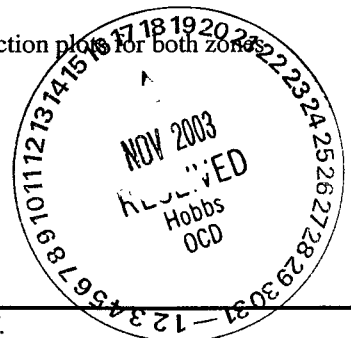
- REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐
OTHER: ☐

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 logs 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

space for State use)

APPROVED BY PAUL F. KAUFZ 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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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

¹ API Number 30-025-10218	² Pool Code 6660	³ Pool Name Blinebry Oil & Gas (Oil)
⁴ Property Code 6488	⁵ Property Name Lou Worthan	⁶ Well Number 9
⁷ OGRID No. 14021	⁸ Operator Name Marathon Oil Company	⁹ Elevation KB 3,366'

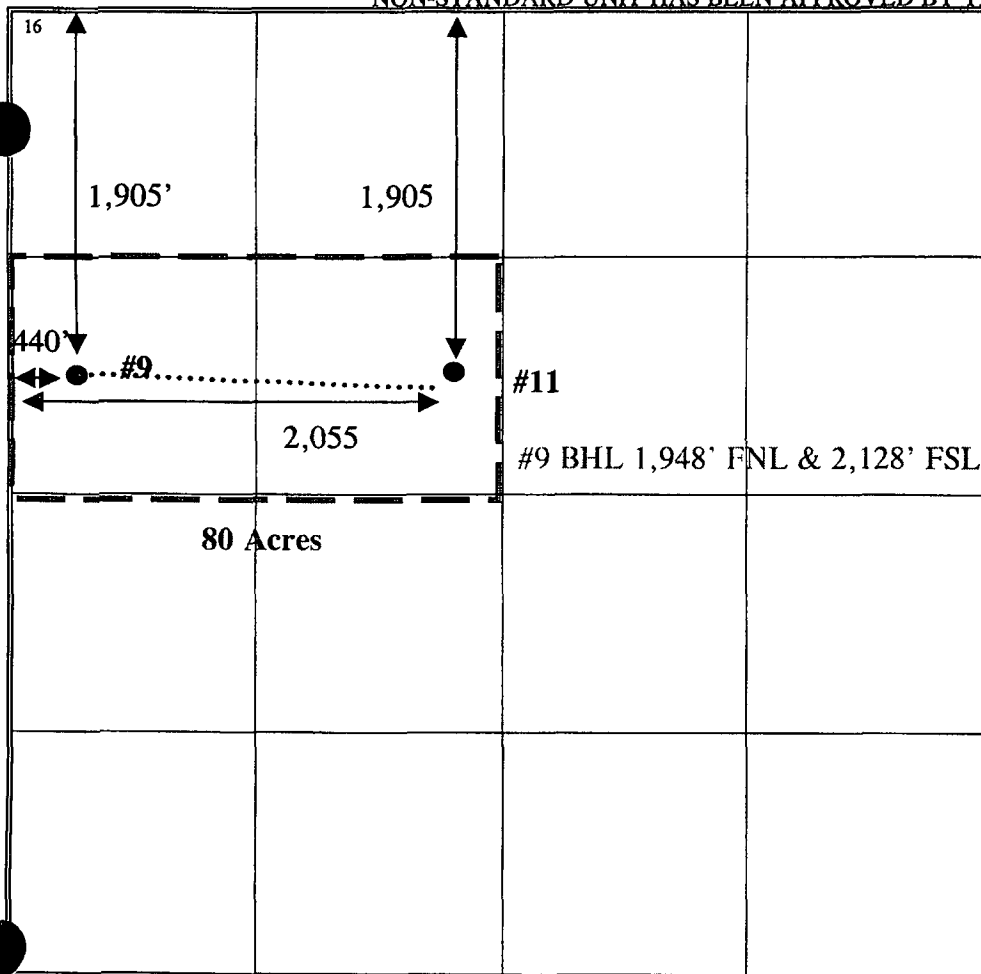
¹⁰ Surface Location

UL or lot no. E	Section 11	Township 22-S	Range 37E	Lot Idn	Feet from the 1,905'	North/South line North	Feet from the 440'	East/West line West	County Lea
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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 80	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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>¹⁷ OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p>Signature Brent Lockhart Printed Name Engineer BDLockhart@MarathonOil.com Title and E-mail Address 3/1/04 Date</p> <p>¹⁸ SURVEYOR CERTIFICATION</p> <p>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.</p> <p>Date of Survey Signature and Seal of Professional Surveyor Certificate Number</p>
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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

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

¹⁰ Surface Location

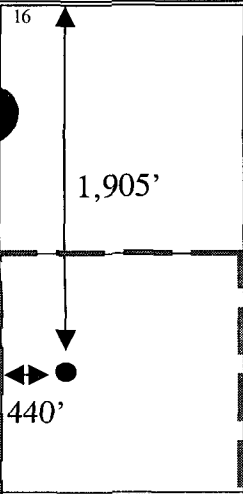
UL or lot no. E	Section 11	Township 22-S	Range 37E	Lot Idn	Feet from the 1,905'	North/South line North	Feet from the 440'	East/West line West	County Lea
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				¹⁸ SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was 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