

PNRM0411748660

C-103 Received 4-5-2004  
DHC No. Assigned 4-26-2004

Order Number	API Number	Operator	County			
HOB-0083	30-025-25568	Marathon Oil Company	Lea			
Order Date	Well Name	Number	Location			
	Low Worthan	018	H UL	11 Sec	22S T (+Dir)	37E R (+Dir)
Pool		Oil %	Gas %			
Pool 1	60240	Tubb Oil & Gas (Oil)	50%	15%		
Pool 2	62700	Wantz Abo	25%	80%		
Pool 3	62730	Wantz Granite Wash	25%	5%		
Pool 4						
Comments: Work completed effective _____ Work cancelled effective _____ Supplement _____						

4-26-2004

Posted  
RBYM & (B)

DHC = 838 (Tubb Oil + Gas (Oil) and Wantz Granite Wash)

DOWNHOLE COMMINGLE CALCULATIONS:

30-025-25568

OPERATOR: Marathon Oil Company

HOB-0083

PROPERTY NAME: Lou Worthan

WNULSTR: 18-H, 11-22-37

SECTION I:		ALLOWABLE AMOUNT		
60240	POOL NO. 1 <u>Tubb Oil + Gas (Oil)</u>	<u>142</u>	<u>284</u> MCF	2000
62700	POOL NO. 2 <u>Wantz Abo</u>	<u>187</u>	<u>1122</u> MCF	6000
62730	POOL NO. 3 <u>Wantz Granite Wash</u>	<u>187</u>	<u>374</u> MCF	2000
	POOL NO. 4 _____			
		<u>516</u>	<u>1780</u> MCF	

SECTION II:		Oil	Gas
POOL NO. 1	<u>Tubb Oil + Gas (Oil)</u>	<u>50%</u> X 516 = 258	15%
POOL NO. 2	<u>Wantz Abo</u>	<u>25%</u>	80%
POOL NO. 3	<u>Wantz Granite Wash</u>	<u>25%</u>	5%
POOL NO. 4	_____		

	<u>OIL</u>	<u>GAS</u>
SECTION III:	<u>142 ÷ 50% = 284</u>	_____
SECTION IV:	<u>284 X 50% = 142</u>	_____
	<u>284 X 25% = 71</u>	_____
	<u>284 X 25% = 71</u>	_____

Submit 3 Copies To Appropriate District Office  
 District I  
 1625 N French Dr., Hobbs, NM 88240  
 District II  
 1301 W. Grand Ave., Artesia, NM 88210  
 District III  
 100 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. 30-025-25568
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 #18
9. OGRID Number
10. Pool name or Wildcat Wantz (Abo), Wantz (Granite Wash) & Tubb
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,355' - 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 3487 Houston, TX 77253

4. Well Location  
 Unit Letter H : 1,905' feet from the North line and 860' feet from the East 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"/>	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"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPLETION <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: Downhole Commingle <input checked="" 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.

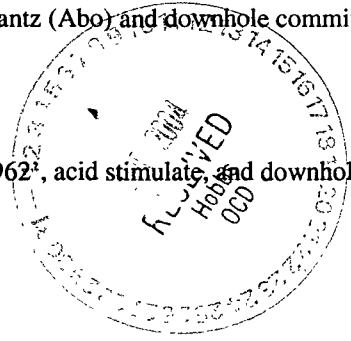
Marathon Oil Company requests authorization to recomplete the Lou Worthan #18 to the Wantz (Abo) and downhole commingle with the existing Wantz (Granite Wash) & Tubb pools.

DHC 838 currently allows for the commingling of Wantz (Granite Wash) & Tubb pools.

The scope of the planned work is to selectively perforate the Wantz (Abo) from 6,511 to 6,962', acid stimulate and downhole commingle with existing of Wantz (Granite Wash) & Tubb pools

Please find attached a wellbore diagram and production plots for both zones

DHC Order No. HOB-0083



I hereby certify that the information above is true and complete to the best of my knowledge and belief.  
 SIGNATURE Brent Lockhart TITLE Engineer DATE 03/30/04

Type or print name Brent Lockhart E-mail address: BDLockhart@MarathonOil.com Telephone No. 713 296 2224

is space for State use)  
 APPROVED BY Paul G. [Signature] TITLE PETROLEUM ENGINEER DATE APR 08 2004  
 Conditions of approval, if any:

**Lou Worthan Well No. 18  
DHC Attachment**

- i) Pre-approved pool status was established by Division Order R-11363
- ii) Tubb Oil & Gas (Oil - 60240), Wantz-Abo (62700) & Wantz-Granite Wash (62730)
- iii) Tubb Oil & Gas (5,756' – 5,962'), Wantz-Abo (6,511' – 6,962') & Wantz-Granite Wash (7,038' – 7,403')
- iv) Tubb Oil & Gas (50% oil & 15% gas), Wantz-Abo (25% oil & 80% gas) & Wantz-Granite Wash (25% oil & 5% gas). 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

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 South First, 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

Form C-102  
Revised August 15, 2000

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

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 <b>30-025-25568</b>		<sup>2</sup> Pool Code <b>62700</b>	<sup>3</sup> Pool Name <b>Wantz Abo</b>
<sup>4</sup> Property Code <b>6488</b>	<sup>5</sup> Property Name <b>Lou Worthan</b>		<sup>6</sup> Well Number <b>18</b>
<sup>7</sup> OGRID No. <b>014021</b>	<sup>8</sup> Operator Name <b>Marathon Oil Company</b>		<sup>9</sup> Elevation <b>G.L. 3355'</b>

<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>H</b>	<b>11</b>	<b>22S</b>	<b>37E</b>	-	<b>1905'</b>	<b>North</b>	<b>860'</b>	<b>East</b>	<b>Lea</b>

<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 <b>40</b>	<sup>13</sup> Joint or Infill <b>Y</b>	<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><b>17 OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p>Signature <i>Tim Chase</i></p> <p>Printed Name <b>Tim Chase</b></p> <p>Title <b>Advanced Engineer Technician</b></p> <p>Date <b>02/03/03</b></p>
	<p><b>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.</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p> <p>Certificate Number    John W. West 676    Ronald J. Eidson 3239 Gary L. Jones 7977</p>

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO

P. O. BOX 2088

ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

IC 5-102  
 revised 10-1-78

All distances must be from the outer boundaries of the Section.

Operator Marathon Oil Company			Lease Lou Worthan			Well No. 18		
Unit Letter H	Section 11	Township 22-S	Range 37-E	County Lea				
Actual Footage Location of Well: 1905 feet from the North line and 860 feet from the East line								
Ground Level Elev. 3355'	Producing Formation Tubb Oil Zone		Pool Tubb Oil and Gas			Dedicated Acreage: 40 Acres		

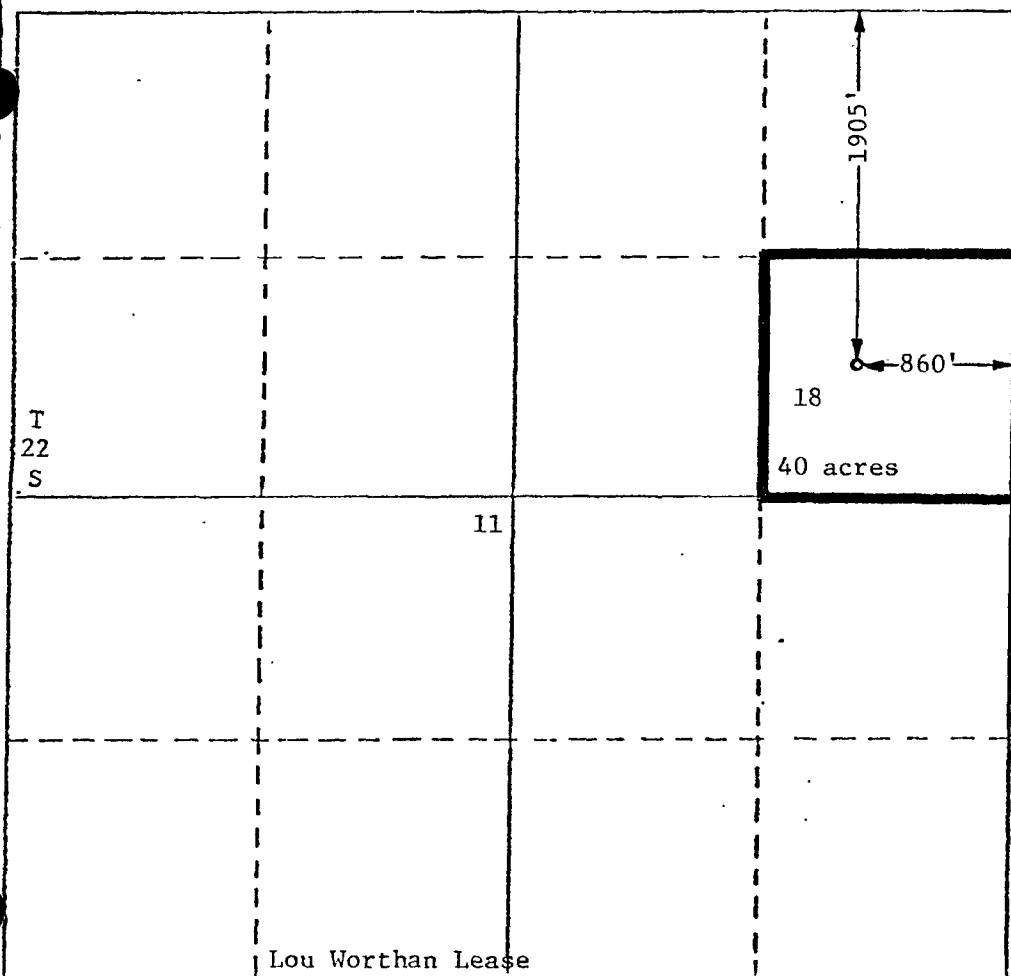
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

Yes  No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Division.

R-37E



CERTIFICATION

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

*Calvin C. Saathoff*

Name  
Calvin C. Saathoff

Position  
Operations Superintendent

Company  
Marathon Oil Company

Date  
March 16, 1981

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 knowledge and belief.

Date Surveyed

Registered Professional Engineer  
and/or Land Surveyor

Certificate No.

