

RELEASE 8-28-93

Mid-Continent Region
Production United States
OIL CONSERVATION DIVISION
RECEIVED



**Marathon
Oil Company**

P.O. Box 552
Midland, TX 79702-0552
Telephone 915/682-1626

July 26, 1993

Energy, Minerals, & Natural Resources Department
New Mexico Oil Conservation Division
P O Box 2088
Santa Fe, New Mexico 87504-2088

Attention: David R. Catanach

RE: Downhole Commingle Request
W. S. Marshall "B" No. 9
Unit K, Sec. 27, T-21-S, R-37-E
Lea County, New Mexico

Dear Mr. Catanach:

Marathon Oil Company requests administrative approval to downhole commingle the Blinebry and Wantz Abo in the W. S. Marshall "B" No. 9. This well is currently completed in the Wantz Abo Pool.

Additional data relative to this commingling is listed below:

1. A lease plat is attached showing the location of this well.
2. A special C-116 test is included providing a test for the Wantz Abo zone. The well is currently pumping at the rate of 3 BOPD, 29 MCFPD, 1 BWPD.
3. The Blinebry is currently TA'd in this well. Expected production is 14 BOPD & 100 MCFPD.
4. A decline curve for the Wantz Abo is included along with a curve for the Blinebry prior to being shut-in in 1973.
5. Estimated shut-in bottom hole pressures are 980 psi for the Blinebry (estimated from the static fluid level) and 1170 psi for the Wantz Abo (estimated from the BHP of Marshall No. 7).
6. Working interest and royalty ownership in all formations is the same.

7. The quality of the crude is virtually identical and downhole commingling will not reduce the commercial value. The value of the crude is as follows:

<u>ZONE</u>	<u>OIL GRAVITY</u>	<u>QUALITY</u>	7-13-93
			<u>PRICE \$/BBL</u>
Blinebry	38	Sour	\$16.50
Wantz Abo	37	Sour	\$16.50

8. The following allocation percentages are suggested based upon the ratio of expected production from each zone:

<u>ZONE</u>	<u>OIL</u>	<u>EXPECTED PROD. BOPD</u>	<u>GAS</u>	<u>EXPECTED PROD. MCFPD</u>
Blinbry	82%	14	78%	100
Wantz Abo	<u>18%</u>	<u>3</u>	<u>22%</u>	<u>29</u>
	100%	17 BOPD	100%	129 MCFPD

9. By copy of this letter, we are notifying the offset operators of this proposed commingling. If the operators have no objections, we ask that they execute the attached waiver and return one copy to the NMOCD and another to my attention at the letterhead address.

Respectfully,

Thomas M. Price

Thomas M. Price
Advanced Engineering Technician

tmp\jo\93242

Enclosure

xc: Offset Operators (certified mail)
NMOCD District I, Hobbs, New Mexico

COMMINGLE PRE-APPLICATION

STATE LAND OFFICE RULES 1.053-1.055 APPLY TO COMMINGLING OIL AND GAS PRODUCTION FROM NEW MEXICO STATE LANDS. PLEASE PROVIDE THE FOLLOWING INFORMATION SO THAT WE CAN DETERMINE WHETHER OR NOT A COMMINGLE APPLICATION PACKAGE SHOULD BE SUBMITTED.

1. BRIEFLY DESCRIBE WHAT YOU PROPOSE TO DO.

Marathon Oil Company is requesting approval to downhole commingle production from the Wantz Abo and the Blinebry Oil & Gas in the W. S. Marshall "B" No. 9.

2. FILL IN THE FOLLOWING INFORMATION FOR EACH WELL.

WELL NUMBER	LEGAL DESCRIP.	LESSEE OF RECORD	N. M. LEASE NUMBER	FORMATION
9	K:S27,T21S,R37E	Marathon	4649	Wantz Abo
9	K:S27,T21S,R37E	Marathon	4649	Blinebry Oil & Gas

NAME: Thomas M. Price
COMPANY: Marathon Oil Company
PHONE NUMBER: 915-682-1626

IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT THE OIL, GAS AND MINERALS DIVISION AT (505) 827-5744.

TMPJO\93243

kkcs 06-04-91

[illegible]

[illegible]

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

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

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

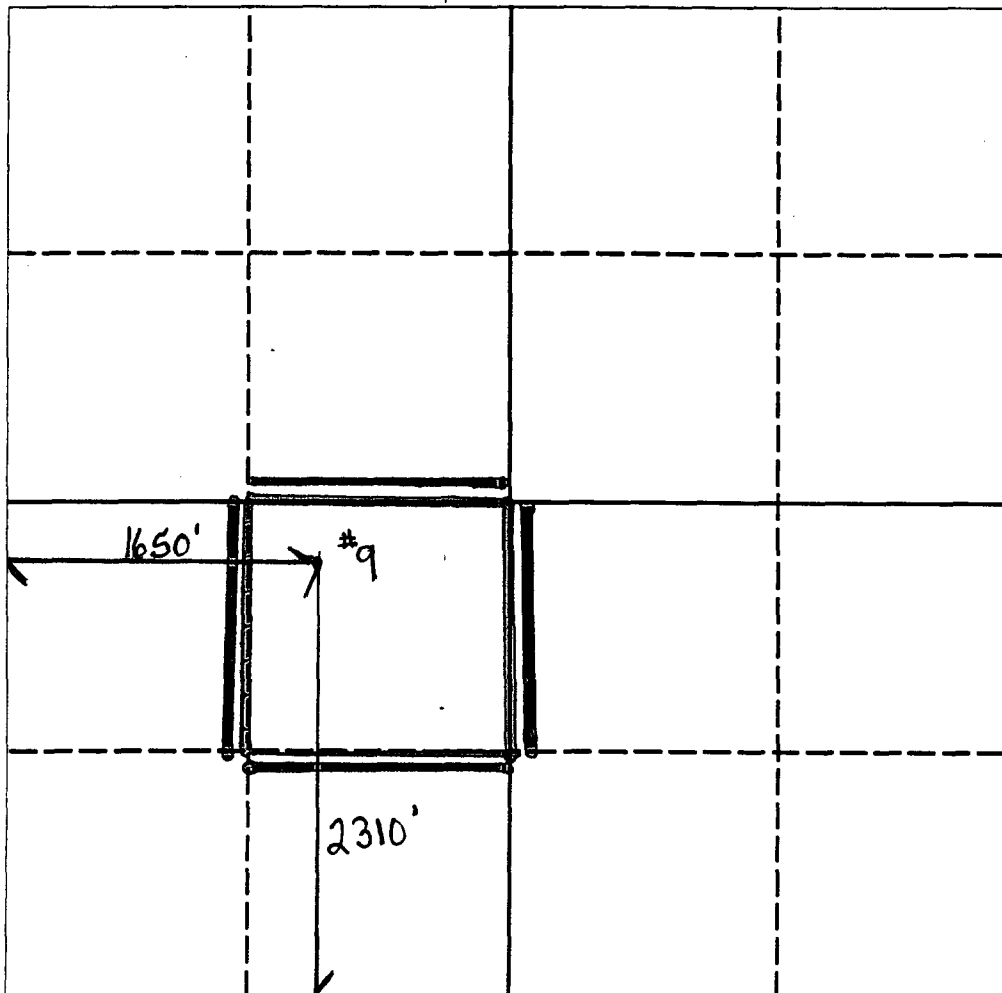
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator MARATHON OIL COMPANY			Lease W. S. MARSHALL "B"		Well No. 9
Unit Letter K	Section 27	Township 21 S	Range 37 E	County Lea	NMPM
Actual Footage Location of Well: 2310 feet from the South line and 1650 feet from the West line					
Ground level Elev. 3413	Producing Formation BLINEBRY		Pool BLINEBRY OIL & GAS	Dedicated Acreage: 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 interest 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 interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

Signature
Thomas M. Price
Printed Name
Thomas M. Price
Position
Adv. Engin. Tech.
Company
Marathon Oil Company
Date
July 13, 1993

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 knowledge and belief.

Date Surveyed

Signature & Seal of
Professional Surveyor

Certificate No.

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

Submit 2 copies to Appropriate District Office.
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240
DISTRICT II
P.O. Drawer DD, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-116
Revised 1/1/89

OIL CONSERVATION DIVISION

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

GAS - OIL RATIO TEST

Operator Marathon Oil Company		Pool WANTZ ABO		County LEA										
Address P.O. Box 552, Midland, Texas, 79702		TYPE OF TEST - (X)		Completion ☐ Special ☒										
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW. ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT/BBL	
		U	S	T						R	WATER BBL.S.	GRAV. OIL		OIL BBL.S.
W. S. MARSHALL "B"	9	K	27	21	37	07-14-93	P	M	24	1	37	3	29	9667

Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.
Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F.
Specific gravity base will be 0.60.
Report casing pressure in lieu of tubing pressure for any well producing through casing.

(See Rule 301, Rule 1116 & appropriate pool rules.)

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

Signature

THOMAS M. PRICE ADV. ENGINEERING TECH.

Printed name and title

7-26-93

Date

915-682-1626

Telephone No.

Retrieval Code: 150.025.21S37E27K00BL

EXHIBIT 9

1000 Lease: W S MARSHALL B

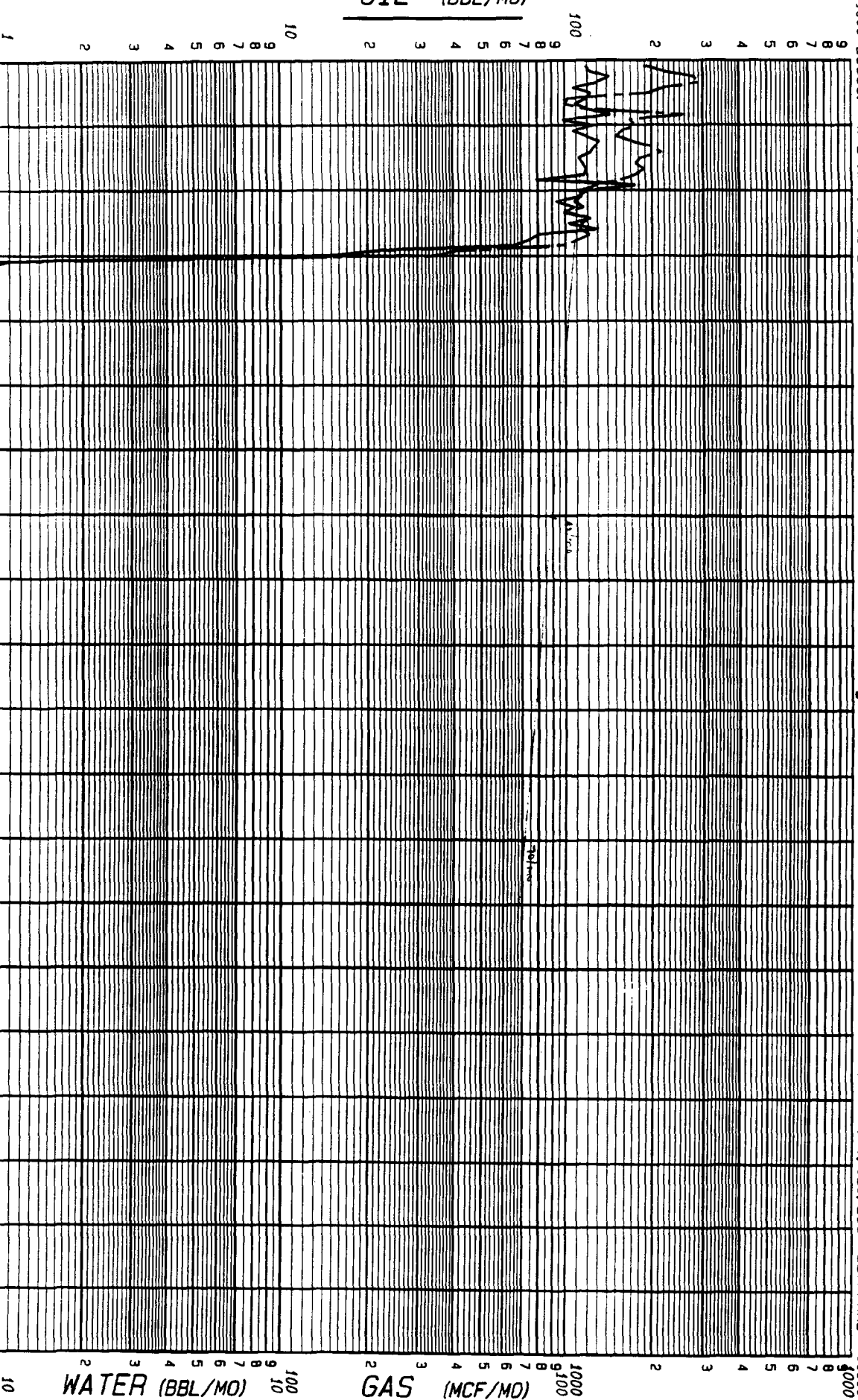
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Retrieval Code: 150, 025, 21537E27KPKAB

Oil & Gas Lease

OIL (BBL/MO)



WATER (BBL/MO)

GAS (MCF/MO)

F.P. Date

County: LEA
Field: WANTZ
Reservoir: ABO
Operator: MARATHON OIL CO
Oil Cum: 5264
Location: 27K 21S 37E

State: NM
AB

EXHIBIT 7

Date: 06-10-93