



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

ADMINISTRATIVE ORDER DHC-1112

Marathon Oil Company
P.O. Box 552
Midland, Texas 79702-0552

RECEIVED
MAR 3 0 1995

Attention: Mr. Thomas M. Price

OIL CON. DIV.
DIST. 3

*Jicarilla Apache Well No.16-E
Unit A, Section 34, Township 26 North, Range 5 West, NMPM,
Rio Arriba County, New Mexico.
Blanco Mesaverde and Basin Dakota Pools*

Dear Mr. Price:

Reference is made to your recent application for an exception to Rule 303-A of the Division Rules and Regulations to permit the subject well to commingle production from both pools in the wellbore.

It appearing that the subject well qualifies for approval for such exception pursuant to the provisions of Rule 303-C, and that reservoir damage or waste will not result from such downhole commingling, and correlative rights will not be violated thereby, you are hereby authorized to commingle the production as described above and any Division Order which authorized the dual completion and required separation of the two zones is hereby placed in abeyance.

In accordance with the provisions of Rule 303-C-4., total commingled oil production from the subject well shall not exceed 30 barrels per day, and total water production shall not exceed 60 barrels per day. The maximum amount of gas which may be produced daily from the well shall be determined by Division Rules and Regulations or by the gas allowable for each respective prorated pool as printed in the Division's San Juan Basin Gas Proration Schedule.

Assignment of allowable to the well and allocation of production from the well shall be on the following basis:

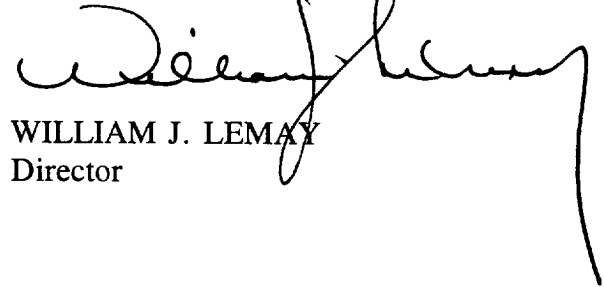
Blanco Mesaverde Pool	Oil 33%	Gas 25%
Basin Dakota Pool	Oil 67%	Gas 75%

FURTHER: The operator shall notify the Aztec District Office of the Division upon implementation of the commingling process.

Pursuant to Rule 303-C-5, the commingling authority granted by the order may be rescinded by the Division Director if, in his opinion, conservation is not being best served by such commingling.

Approved at Santa Fe, New Mexico on this 28th day of March, 1995.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION



WILLIAM J. LEMAY
Director

S E A L

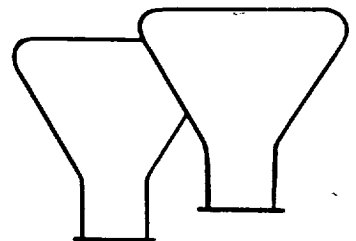
WJL/BES

cc: Oil Conservation Division - Aztec ✓

Ernie Busch

From: Ernie Busch
To: David Catanach
Subject: MARATHON OIL CO (DHC)
Date: Tuesday, March 28, 1995 7:52AM
Priority: High

JICARILLA APACHE #16E
A-34-26N-05W
RECOMMEND: APPROVAL



**EPA METHOD 8090
 NITROAROMATICS AND CYCLIC KETONES**

Client: _____
 Sample ID: _____
 Laboratory Number: _____
 Chain of Custody: _____
 Sample Matrix: _____
 Preservative: _____
 Condition: _____

QA/QC
 Matrix Blank
 0219TBM
 N/A
 Soil
 Cool
 Cool and Intact

Project #: _____
 Date Reported: _____
 Date Sampled: _____
 Date Received: _____
 Date Extracted: _____
 Date Analyzed: _____
 Analysis Requested: _____

N/A
 03-03-95
 N/A
 02-19-95
 03-02-95
 TCLP

Parameter	Concentration	Det. Limit	Regulatory Limit
Pyridine	ND	0.020 (mg/L)	5.0 (mg/L)
Hexachloroethane	ND	0.020 (mg/L)	3.0 (mg/L)
Nitrobenzene	ND	0.020 (mg/L)	2.0 (mg/L)
Hexachlorobutadiene	ND	0.020 (mg/L)	0.5 (mg/L)
2,4-Dinitrotoluene	ND	0.020 (mg/L)	0.13 (mg/L)
Hexachlorobenzene	ND	0.020 (mg/L)	0.13 (mg/L)

SURROGATE RECOVERY:

Parameter

Percent Recovery

2-fluorobiphenyl

102 %

Method:

Method 1311, Toxicity Characteristic Leaching Procedure
 Test Methods for Evaluating Solid Waste, SW-846, USEPA,
 July 1992.

Method 3510, Separator Funnel Liquid-Liquid Extraction,
 Test Methods for Evaluating Solid Waste, SW-846, USEPA,
 July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones,
 Test Methods for Evaluating Solid Waste, SW-846,
 USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C
 section 261.24, July 1, 1992.

ND = Parameter not detected at the stated detection limit.
 N/A = Not Applicable.

Comments: QA/QC for samples 8206, 8213 - 8216, 8220.

Analyst

Review



**Marathon
Oil Company**

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

Mr. David Catanach
State of New Mexico
Oil Conservation Division
Energy and Minerals Department
2040 South Pacheco
Santa Fe, New Mexico 87505

RE: Request for Exception to Rule 303-A.
Downhole Commingling
Jicarilla Apache # 16-E
UL "A", 825' FNL & 955' FEL
Sec 34, T-26-N, R-5-W
Blanco Mesa Verde and Basin Dakota Pools
Jicarilla Field
Rio Arriba County, New Mexico

Dear Mr. Catanach:

Marathon Oil Company requests administrative approval for an exception to Rule 303-A to permit the downhole commingling of the Mesa Verde and Basin Dakota zones in the referenced well.

A velocity string was installed in this well in Jan-94 to facilitate the reestablishment of Mesa Verde production. Commingling will allow for the more efficient operation of artificial lift equipment. Moreover downhole commingling would allow both zones to be artificially lifted to an abandonment BHP of 100 PSI, maximizing the productive life of the wellbore and reducing waste.

Enclosed is pertinent data supporting this application as outlined in Rule 303-A. If additional information is necessary, please contact me at 915-687-8324. Your prompt consideration of this issue is greatly appreciated.

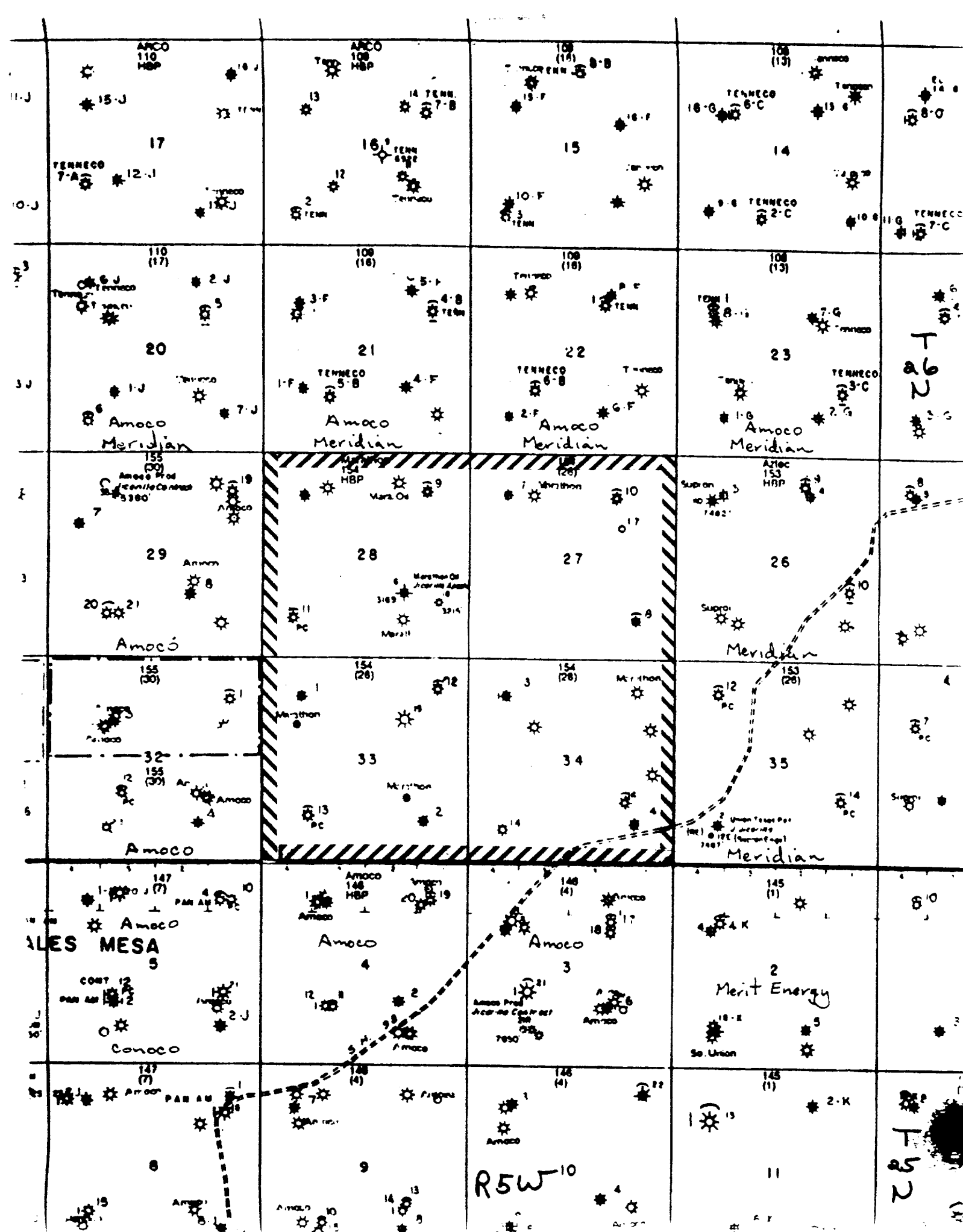
Sincerely,

Thomas M Price

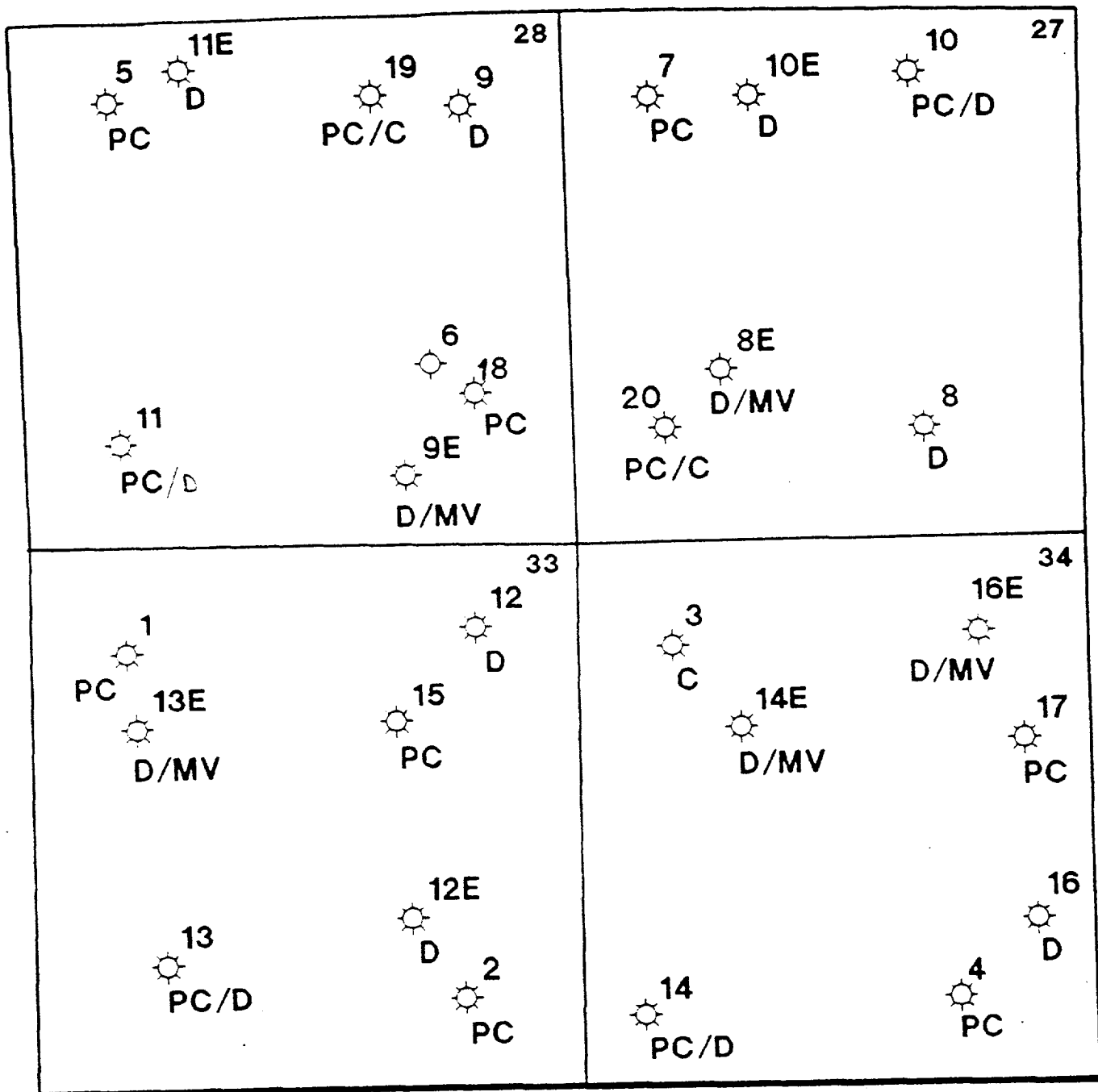
Thomas M. Price
Advanced Engineering Technician

REQUEST FOR EXCEPTION TO RULE 303A
JICARILLA APACHE # 16-E API# 30-039-22434
UL"A" 825' FNL & 955' FEL
SEC.34, T-26-N, R-5-W
RIO ARRIBA CO., NEW MEXICO
BLANCO MESA VERDE AND BASIN DAKOTA POOLS

- A: Operator
Marathon Oil Company
P.O. Box 552
Midland, Texas 79702
- B: Plats and Offset Operators
Attached
- C: C-116's
Attached
- D: Production Decline Curves
Attached
- E: Estimated Bottomhole Pressures
Mesa Verde 914 PSI @ 5278 Feet
Basin Dakota 930 PSI @ 5278 Feet
- F: Product Characteristics
Previous commingling of these zones by other operators in this area have shown that the produced fluids are compatible and commingling will not cause formation damage.
- G: Value
Marathon receives the same price for product from both zones and value will not be adversely affected.
- H: Production Allocation
- | <u>POOL</u> | <u>BOPD</u> | <u>MCFPD</u> | <u>BWPD</u> |
|---------------------|-------------|--------------|-------------|
| Mesa Verde | 1 | 59 | 1 |
| <u>Basin Dakota</u> | <u>2</u> | <u>174</u> | <u>3</u> |
| TOTAL | 3 | 233 | 4 |
-
- Allocated Percentages
- | <u>POOL</u> | <u>BOPD%</u> | <u>MCFPD%</u> | <u>BWPD</u> |
|---------------------|--------------|---------------|-------------|
| Mesa Verde | 33.3 | 25.3 | 25 |
| <u>Basin Dakota</u> | <u>66.7</u> | <u>74.7</u> | <u>75</u> |
| TOTAL | 100 | 100 | 100 |
- I: Ownership
Ownership of all zones is in common and correlative rights will not be compromised.
- J: Offset Operator Notification
By copy of this letter we are notifying all offset operators (see list, Item C) of the proposed commingling, by certified mail.



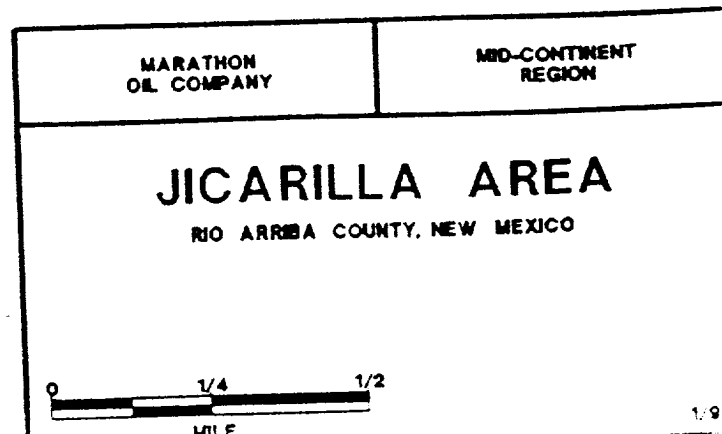
R 5 W



T
26
N

JICARILLA AREA

PC PICTURED CLIFFS
C CHACRA
MV MESA VERDE
D DAKOTA



**OFFSETTING OPERATORS TO MARATHON OIL COMPANY'S
JICARILLA APACHE LEASE
SECTIONS 27, 28, 33, & 34, T-26-N, R-5-W,
RIO ARriba COUNTY, NEW MEXICO**

**Amoco Production Company
P. O. Box 800
Denver, CO 80201-0800**

**Meridian Oil Inc.
P. O. Box 4289
Farmington, NM 87401-4289**

**Conoco Inc.
10 Desta Dr., Ste. 100W
Midland, TX 79705-4500**

**Merit Energy Corp.
P. O. Box 351
Midland, TX 79702-0351**

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

Form C-116
Revised 1/1/89

GAS - OIL RATIO TEST

Operator Marathon Oil Company		Pool Blanco Mesa Verde		County Rio Arriba												
Address P.O. Box 552, Midland, TX 79702		TYPE OF TEST - (X)		Completion ☐ Special ☒												
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	S I Z E	CH O K E S I Z E	T B G. P R E S S.	D A I L Y A L L O W - A B L E	L E N G T H O F T E S T H O U R S	P R O D. D U R I N G T E S T			G A S - O I L R A T I O C U F T / B B L		
		U	S	T							R	W A T E R B B L S.	G R A V. O I L		O I L B B L S.	G A S M C F.
Jicarilla Apache	8E	K	27	26	5	2-27-95	F	64/64	144	M	24	2	58.0	2	41	20500
	9E	O	28	26	5	2/19/95	F	64/64	178	M	24	2	58.0	2	57	28500
	13E	E	33	26	5	2/17/95	F	64/64	200	M	24	0	58.0	2	78	39000
	14E	F	34	26	5	2/26/95	F	64/64	300	M	24	4	58.0	1	11	11000
	16E	A	34	26	5	2/21/95	F	64/64	212	M	24	1	58.0	1	59	59000
INFORMATIONAL USE ONLY																

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.

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



Signature

Thomas M. Price

Printed name and title

3/2/95

Date

915-687-8324

Telephone No.

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

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 Basin Dakota		County Rio Arriba												
Address P.O. Box 552, Midland, TX 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.	GAS M.C.F.	
INFORMATIONAL USE ONLY	8E	K	27	26	5	2/22/95	F	64/64	190	M	24	3	56.6	1	209	209000
	9 E	O	28	26	5	2/23/95	F	64/64	160	M	24	0	56.6	3	193	64333
	13E	E	33	26	5	2/18/95	F	64/64	142	M	24	4	56.6	2	132	66000
	14E	F	34	26	5	2/25/95	F	64/64	154	M	24	2	56.6	2	100	50000
	16E	A	34	26	5	2/16/95	F	64/64	139	M	24	3	56.6	2	174	87000

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.

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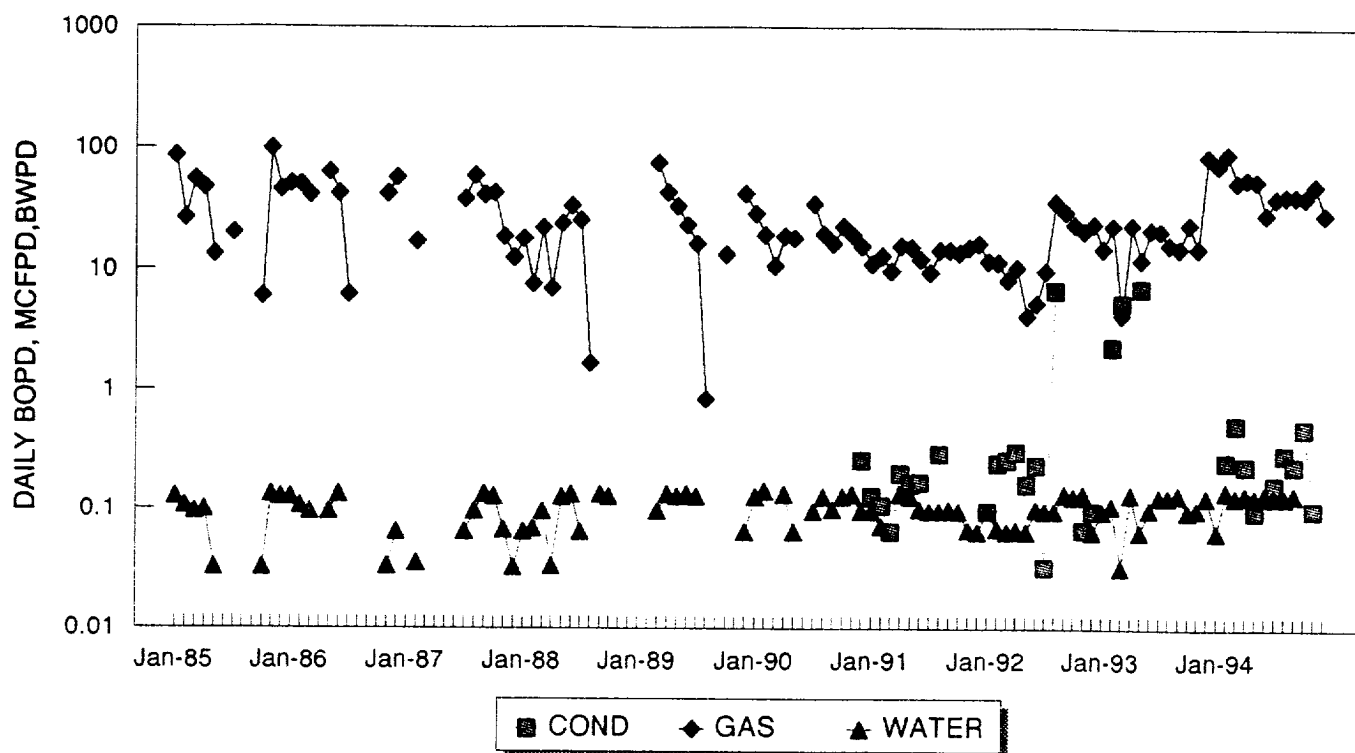
3/2/95

Date

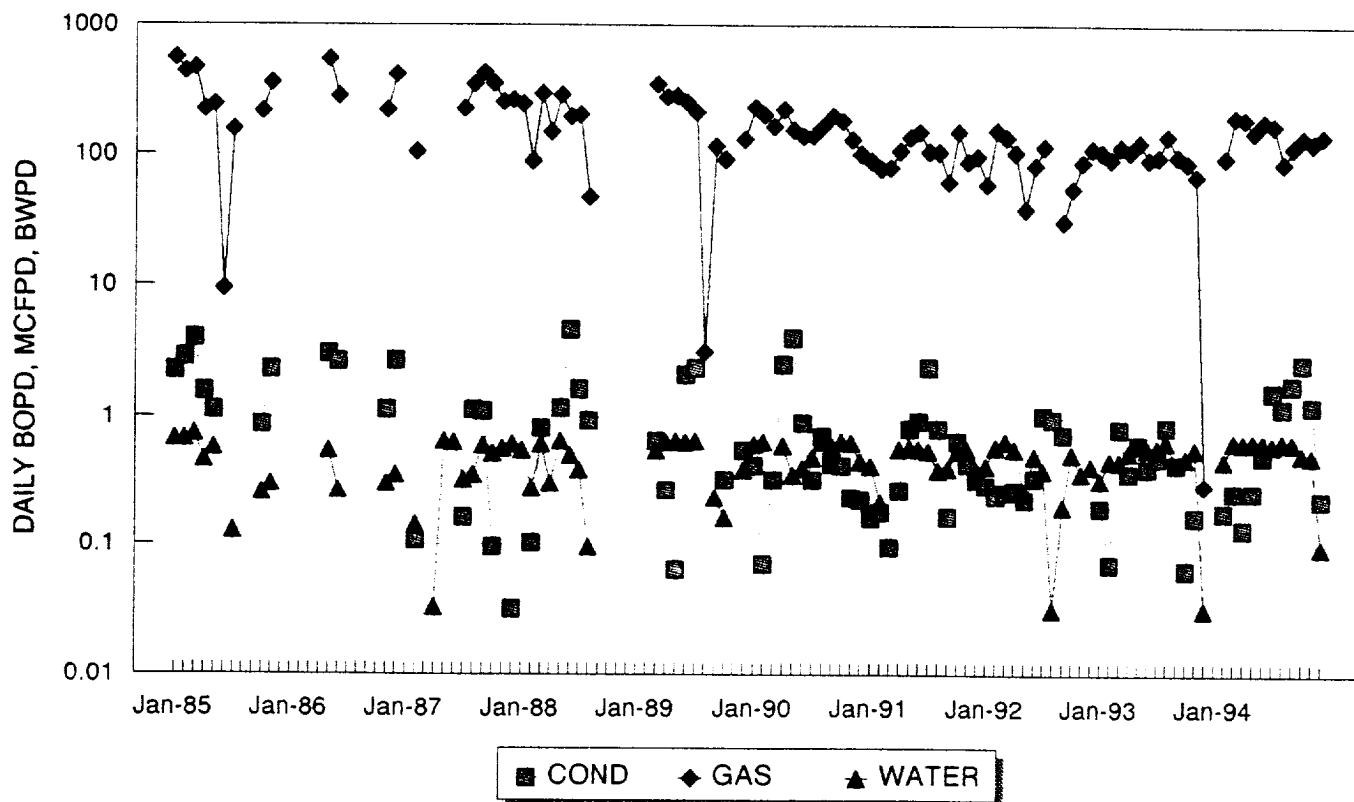
915-687-8324

Telephone No.

JICARILLA APACHE 16E MESA VERDE



JICARILLA APACHE 16E BASIN DAKOTA





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

March 3, 1995

Amoco Production Company
P. O. Box 800
Denver, Colorado 80201-0800

Re: Request for Exception to Rule 303-A
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Jicarilla Apache No. 16E
UL "A" 825' FNL & 955' FEL
Sec. 34, T-26-N, R-5-W
Mesa Verde and Basin Dakota Pools
Jicarilla Field
Rio Arriba County, New Mexico

Gentlemen:

Marathon Oil Company has filed an application with the New Mexico Oil Conservation Division to downhole commingle the referenced well. Please find enclosed a copy of the application as outlined in Rule 303-A.

If you are in agreement and waive all objections to the downhole commingling, please sign below and mail the original to the NMOCD, 2040 South Pacheco, Santa Fe, NM 87505, Attn: David Catanach.

Sincerely,

A handwritten signature in cursive script that reads 'Thomas M. Price'.

Thomas M. Price
Advanced Engineering Technician

TMP/9510.d/r
Enclosure

Agreed and accepted this _____ day of _____ 1995

by _____, as representative of

_____.



**Marathon
Oil Company**

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

March 3, 1995

Meridian Oil Inc.
P. O. Box 4289
Farmington, New Mexico 87401-4289

Re: Request for Exception to Rule 303-A
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UL "A" 825' FNL & 955' FEL
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P.O. Box 552
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Telephone 915/682-1626

March 3, 1995

Conoco Inc.
10 Desta Drive, Suite 100W
Midland, Texas 79705-4500

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Thomas M. Price
Advanced Engineering Technician

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Enclosure

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

March 3, 1995

Merit Energy Corp.
P. O. Box 351
Midland, Texas 79702-0351

Re: Request for Exception to Rule 303-A
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Advanced Engineering Technician

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by _____, as representative of
