

**MERIDIAN OIL**

OIL CONSERVATION DIVISION  
RECEIVED

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April 21, 1994

New Mexico Oil Conservation Division  
Attn: Mr. Bill LeMay  
P.O. Box 2088  
310 Old Santa Fe Trail  
Santa Fe, New Mexico 87501

RE: San Juan 29-4 Unit #201  
Unit A, Section 31, T29N, R04W  
Rio Arriba County, New Mexico  
Downhole Commingling Request

Dear Mr. LeMay:

Meridian Oil Inc. is applying for an administrative downhole commingling order for the referenced well in the Pictured Cliffs and the Basin Fruitland Coal fields. The ownership of the zones to be commingled is common. The offset operator/owners to this well are John E. Schalk, Ruth Zimmerman Trust, Max B. Rotholz, Thomas & Mary Dugan, Langdon D. Harrison, Kerr-McGee Corp., Robert P. Tinnin, MAR Oil & Gas, H.O. Pool Trust, EJE Brown Company, Kathleen Quinn., and Richmond Petroleum. A letter has been sent to the Bureau of Land Management and to the above mentioned notifying them of this downhole commingle.

The Fruitland Coal and Pictured Cliffs wells producing in this area operated by Meridian are marginally productive. Based on offset production in this area, drilling of separate wells and dual completions to produce the Fruitland Coal and Pictured Cliffs are not economically justified. The only economical way to recover the Fruitland Coal and Pictured Cliffs reserves in this drill block is to downhole commingle production from both zones in this well.

It is proposed to complete the Pictured Cliffs formation and test its production. It is then proposed to set a bridge plug above the Pictured Cliffs, perforate and stimulate the Fruitland Coal, and test its production. The bridge plug will then be removed, and both zones produced through a single string of tubing. The reservoir characteristics of each of the subject zones are such that underground waste will not be caused by the proposed commingling. Neither producing interval makes oil, and only minimal amounts of similar water are produced in the offset wells. The average shut-in pressures in the area for the Pictured Cliffs and Fruitland Coal are 1065 and 1040 psi, respectively.

The allocation of the commingled production will be calculated using the attached allocation formula. This formula is based on offset Pictured Cliffs production performance (material balance) and volumetrics, and uses accepted Reservoir Engineering methods to allocate the Pictured Cliffs reserves. This addresses the Fruitland Coal producing characteristics of early life inclining production rates.

New Mexico Oil Conservation Division  
Mr. Bill LeMay  
San Juan 29-4 Unit #201  
Downhole Commingling Request  
Page Two

Approval of this commingling application will allow for the prevention of wasted resources and protection of correlative rights. Included with this letter are plats showing ownership of offsetting leases for both the Pictured Cliffs and Fruitland Coal, a copy of the letter to the BLM and an allocation formula.

Sincerely,

A handwritten signature in black ink, appearing to read "John D. Clayton for JDC". The signature is stylized and cursive.

John D. Clayton  
Regional Engineer

SHL/rjp  
Attachments

cc: Frank T. Chavez - NMOCD/Aztec

# MERIDIAN OIL

April 21, 1994

Bureau of Land Management  
1235 La Plata Highway  
Farmington, NM 87401

RE: San Juan 29-4 Unit #201  
Unit A, Section 31, T29N, R04W  
Rio Arriba County, New Mexico  
Downhole Commingle Request

Gentlemen:

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The purpose of this letter is to notify you of Meridian's application. If you have no objections to the NMOCD issuing a commingling order, we would appreciate your signing this letter and returning the original to Mr. LeMay at the following address with a copy to this office:

Mr. William LeMay  
New Mexico Oil Conservation Division  
P.O. Box 2088  
Santa Fe, NM 87501

Your prompt attention to this matter would be appreciated.

Yours truly,



John D. Clayton  
Regional Engineer

**The undersigned hereby waives objection to the referenced Downhole Commingle Request.**

COMPANY/OWNER: \_\_\_\_\_

TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_

**MERIDIAN OIL**

April 21, 1994

John E. Schalk  
P.O. Box 25825  
Albuquerque, NM 87125

**RE: San Juan 29-4 Unit #201  
Unit A, Section 31, T29N, R04W  
Rio Arriba County, New Mexico  
Downhole Commingle Request**

Gentlemen:

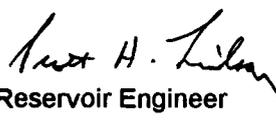
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Reservoir Engineer

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**TITLE:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

# MERIDIAN OIL

April 21, 1994

Max B. Rotholz  
1323 North Fulton  
Wharton, TX 77488

RE: San Juan 29-4 Unit #201  
Unit A, Section 31, T29N, R04W  
Rio Arriba County, New Mexico  
Downhole Commingle Request

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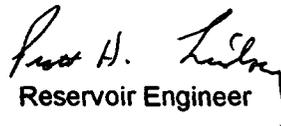
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**TITLE:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

# MERIDIAN OIL

April 21, 1994

Ruth Zimmerman  
Attn: Hazel Hart  
842 Muirlands Vista Way  
La Jolla, CA 92037

RE: San Juan 29-4 Unit #201  
Unit A, Section 31, T29N, R04W  
Rio Arriba County, New Mexico  
Downhole Commingle Request

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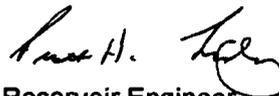
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COMPANY/OWNER: \_\_\_\_\_

TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_

**MERIDIAN OIL**

April 21, 1994

Thomas & Mary Dugan  
P.O. Box 420  
Farmington, NM 87499

RE: San Juan 29-4 Unit #201  
Unit A, Section 31, T29N, R04W  
Rio Arriba County, New Mexico  
Downhole Commingle Request

Gentlemen:

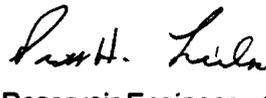
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**TITLE:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**MERIDIAN OIL**

April 21, 1994

Langdon D. Harrison  
7517 Tamarron Place, N.E.  
Albuquerque, NM 87109

RE: San Juan 29-4 Unit #201  
Unit A, Section 31, T29N, R04W  
Rio Arriba County, New Mexico  
Downhole Commingle Request

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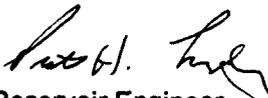
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**TITLE:** \_\_\_\_\_

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# MERIDIAN OIL

April 21, 1994

Kerr-McGee Corp.  
P.O. Box 11050  
Midland, TX 79702

RE: San Juan 29-4 Unit #201  
Unit A, Section 31, T29N, R04W  
Rio Arriba County, New Mexico  
Downhole Commingle Request

Gentlemen:

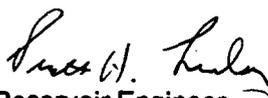
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**DATE:** \_\_\_\_\_

# MERIDIAN OIL

April 21, 1994

Robert P. Tinnin  
P.O. Box 1885  
Albuquerque, NM 87103

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Unit A, Section 31, T29N, R04W  
Rio Arriba County, New Mexico  
Downhole Commingle Request

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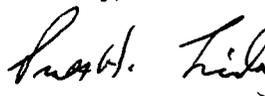
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**DATE:** \_\_\_\_\_

# MERIDIAN OIL

April 21, 1994

MAR Oil & Gas  
P.O. Box 5155  
Santa Fe, NM 87502

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Unit A, Section 31, T29N, R04W  
Rio Arriba County, New Mexico  
Downhole Commingle Request

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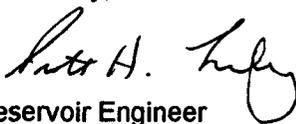
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# MERIDIAN OIL

April 21, 1994

H.O. Pool Trust  
Attn: Debbie Burney  
P.O. Box 25189  
Oklahoma City, OK 73125

RE: San Juan 29-4 Unit #201  
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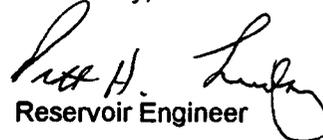
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TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_

# MERIDIAN OIL

April 21, 1994

EJE Brown Company  
c/o Nationsbank of Texas, N.A.  
P.O. Box 2546  
Forth Worth, TX 76113-2546

RE: San Juan 29-4 Unit #201  
Unit A, Section 31, T29N, R04W  
Rio Arriba County, New Mexico  
Downhole Commingle Request

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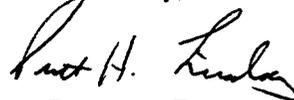
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TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_

# MERIDIAN OIL

April 21, 1994

Kathleen Quinn  
c/o Sunwest Bank of Albuquerque, N.A.  
Attn: Gail McBrearty  
P.O. Box 26900  
Albuquerque, NM 87125

RE: San Juan 29-4 Unit #201  
Unit A, Section 31, T29N, R04W  
Rio Arriba County, New Mexico  
Downhole Commingle Request

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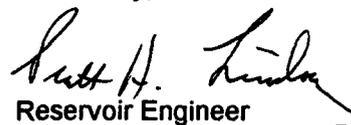
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COMPANY/OWNER: \_\_\_\_\_

TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_

# MERIDIAN OIL

April 21, 1994

Richmond Petroleum  
2651 N. Harwood, Suite 500  
Dallas, TX 75020

RE: San Juan 29-4 Unit #201  
Unit A, Section 31, T29N, R04W  
Rio Arriba County, New Mexico  
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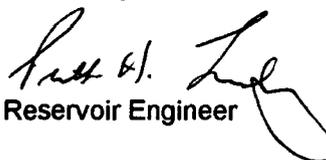
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**TITLE:** \_\_\_\_\_

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# S.J. 29-4 UNIT #201

## MONTHLY GAS PRODUCTION ALLOCATION FORMULA

### GENERAL EQUATION

$$Q_t = Q_{ftc} + Q_{pc}$$

WHERE:  $Q_t$  = TOTAL MONTHLY PRODUCTION (MCF/MONTH)  
 $Q_{ftc}$  = FRUITLAND COAL (FTC) MONTHLY PRODUCTION  
 $Q_{pc}$  = PICTURED CLIFFS (PC) MONTHLY PRODUCTION (MCF/MONTH)

REARRANGING THE EQUATION TO SOLVE FOR  $Q_{ftc}$ :

$$Q_{ftc} = Q_t - Q_{pc}$$

ANY PRODUCTION RATE OVER WHAT IS CALCULATED FOR THE PICTURED CLIFFS (PC) USING THE APPLIED FORMULA IS FRUITLAND COAL (FTC) PRODUCTION.

PICTURED CLIFFS (PC) FORMATION PRODUCTION FORMULA IS:

$$Q_{pc} = Q_{pci} * e^{-\{D_{pc}\}(t)}$$

WHERE:  $Q_{pci}$  = INITIAL PC MONTHLY FLOW RATE (CALCULATED FROM FLOW TEST)  
 $D_{pc}$  = PICTURED CLIFFS MONTHLY DECLINE RATE CALCULATED FROM:  
 $D_{pc} = (Q_{pci} - Q_{pcabd}) / N_{p(pc)}$   
See Determination of  $Q_{pci}$  and PC Estimated Ultimate Recovery (EUR)  
 $Q_{pcabd} = 300$  MCF/M

WHERE:  $N_{p(pc)}$  = PICTURED CLIFFS ESTIMATED ULTIMATE RECOVERY (EUR)  
 $P^* \times 1.16 \text{ MMCF/PSI}^{**} \times R_f$   
 $P^*$  = INITIAL RESERVOIR PRESSURE (7 DAY SIBHP)  
 $R_f$  = RECOVERY (FIELD ANALOGY): = 0.95  
 $**$  DETERMINED FROM MATERIAL BALANCE (FIELD ANALOGY) AND VOLUMETRIC RESERVES (LOG ANALYSIS)

By calculating PC EUR FROM SIBHP and determining PC initial flow rate,  $D_{pc}$  can then be estimated utilizing the previously described parameters

THUS:  $Q_{ftc} = Q_t - Q_{pci} * e^{-\{D_{pc}\}(t)}$

WHERE: (t) IS IN MONTHS

REFERENCE: Thompson, R. S., and Wright, J. D., "Oil Property Evaluation", pages 5-2, 5-3, 5-4.

# **S.J. 29-4 UNIT #201**

## **DETERMINATION OF $Q_{pci}$ : (INITIAL PICTURED CLIFFS MONTHLY PRODUCTION)**

$$\underline{Q_{pci} = Q_{t(1)} \times Q_{pc(p)} / \{Q_{pc(p)} + Q_{ftc(p)}\}}$$

### **WHERE:**

**$Q_{t(1)}$  = FIRST MONTH TOTAL PRODUCTION (MCF)**

**$Q_{pc(p)}$  = FINAL PICTURED CLIFFS FLOW TEST (MCFPD)**

**$Q_{ftc(p)}$  = FINAL FRUITLAND COAL FLOW TEST (MCFPD)**

# S.J. 29-4 UNIT #201

EXAMPLE DETERMINATION OF:

(a)  $N_p(pc)$   
(b)  $Q_{pci}$   
(c)  $D_{pc}$

PC EUR  
INITIAL PC MONTHLY FLOW RATE  
PC MONTHLY DECLINE RATE

## (a) DETERMINATION OF $N_p(pc)$

$$N_p(pc) = 1.16 \text{ (MMCF/PSI)} \times P^* \text{ (PSI)} \times R_f$$

$$P^* = 1065 \text{ PSI (FROM 7 DAY SIBHP)}$$

$$N_p(pc) = 1.16 \text{ MMCF/PSI} \times 1065 \text{ PSI} \times 0.95$$

$$\underline{N_p(pc) = 1174 \text{ MMCF}}$$

## (b) DETERMINATION OF $Q_{pci}$

$$Q_{pci} = Q_{t(1)} \times \left\{ \frac{Q_{pc(p)}}{Q_{pc(p)} + Q_{ftc(p)}} \right\}$$

$$\begin{aligned} Q_{t(1)} &= 15,000 \text{ MCF} \\ Q_{pc(p)} &= 500 \text{ MCF/D} \\ Q_{ftc(p)} &= 400 \text{ MCF/D} \end{aligned}$$

1ST MONTH TOTAL PRODUCTION  
PC FLOW TEST  
FTC FLOW TEST

$$Q_{pci} = 15,000 \text{ MCF/M} \times \left\{ \frac{500 \text{ MCF/D}}{500 \text{ MCF/D} + 400 \text{ MCF/D}} \right\}$$

$$\underline{Q_{pci} = 8,333 \text{ MCF/M}}$$

## (c) DETERMINATION OF $D_{pc}$

$$D_{pc} = (Q_{pci} - Q_{pcabd}) / N_{pc}$$

$$Q_{pcabd} = 300 \text{ MCF/M}$$

$$D_{pc} = (8,333 \text{ MCF/M} - 300 \text{ MCF/M}) / (1,174,000 \text{ MCF})$$

$$\underline{D_{pc} = 0.007 / M}$$

$$\underline{\text{THUS: } Q_{ftc} = Q_{t(MCF/M)} - 8,333 \text{ (MCF/M)} \times e^{\{-(0.007(1/M))\}} \times t(M)\}}$$

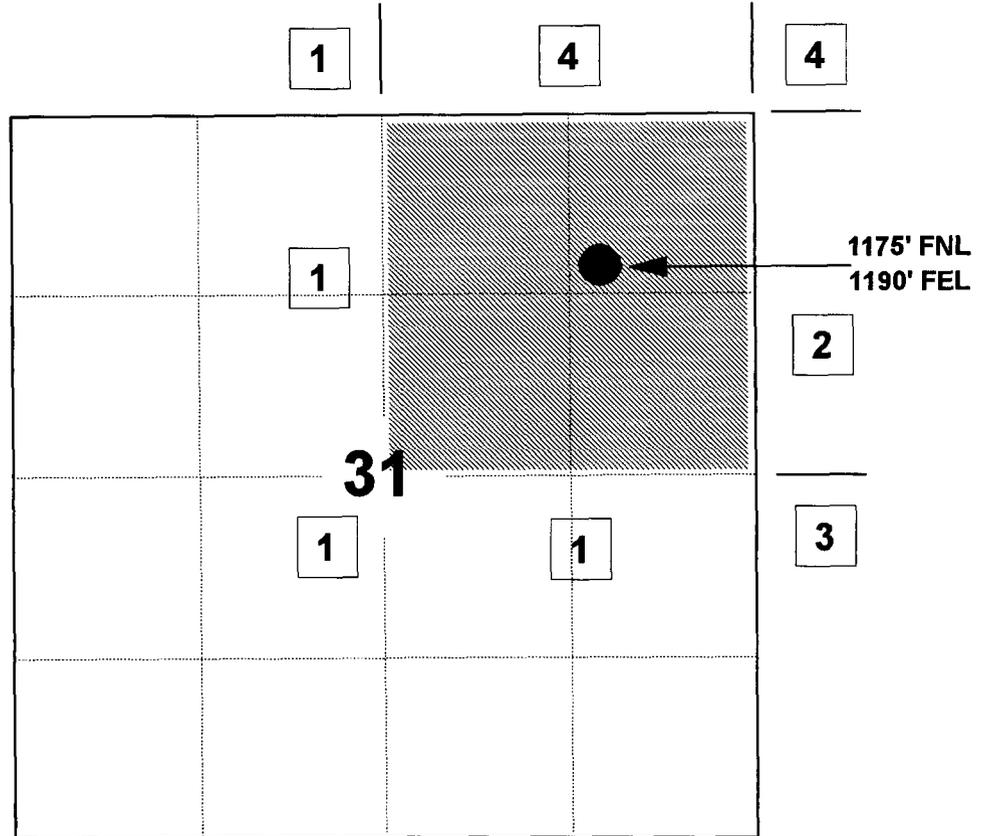
# MERIDIAN OIL INC

## SAN JUAN 29-4 UNIT #201

### OFFSET OPERATOR \ OWNER PLAT

Pictured Cliffs / Fruitland Coal Formation Commingle Well

Township 29 North, Range 4 West



1) Meridian Oil Inc

2) John E. Schalk

PO Box 25825, Albuquerque, NM 87125

3) Meridian Oil Inc &

John E. Schalk

4) See Attached

Pictured Cliffs Formation

Ruth Zimmerman Trust  
Attn: Hazel Hart (Sister)  
842 Muirlands Vista Way  
La Jolla, CA 92037

Max B. Rotholz  
1323 North Fulton  
Wharton, TX 77488

Thomas & Mary Dugan  
P.O. Box 420  
Farmington, NM 87499

Langdon D. Harrison  
7517 Tamarron Place, N.E.  
Albuquerque, New Mexico 87109

Kerr-McGee Corp.  
Post Office Box 11050  
Midland, Texas 79702

Robert P. Tinnin  
P.O. Box 1885  
Albuquerque, NM 87103

MAR Oil & Gas  
P.O. Box 5155  
Santa Fe, NM 87502

H.O. Pool Trust  
Attn: Debbie Burney  
P.O. Box 25189  
Oklahoma City, OK 73125

EJE Brown Company  
c/o Nationsbank of Texas, N.A.  
P.O. Box 2546  
Fort Worth, TX 76113-2546

Kathleen Quinn  
c/o Sunwest Bank of Albuquerque, N.A.  
Attn: Gail McBrearty  
P.O. Box 26900  
Albuquerque, NM 87125

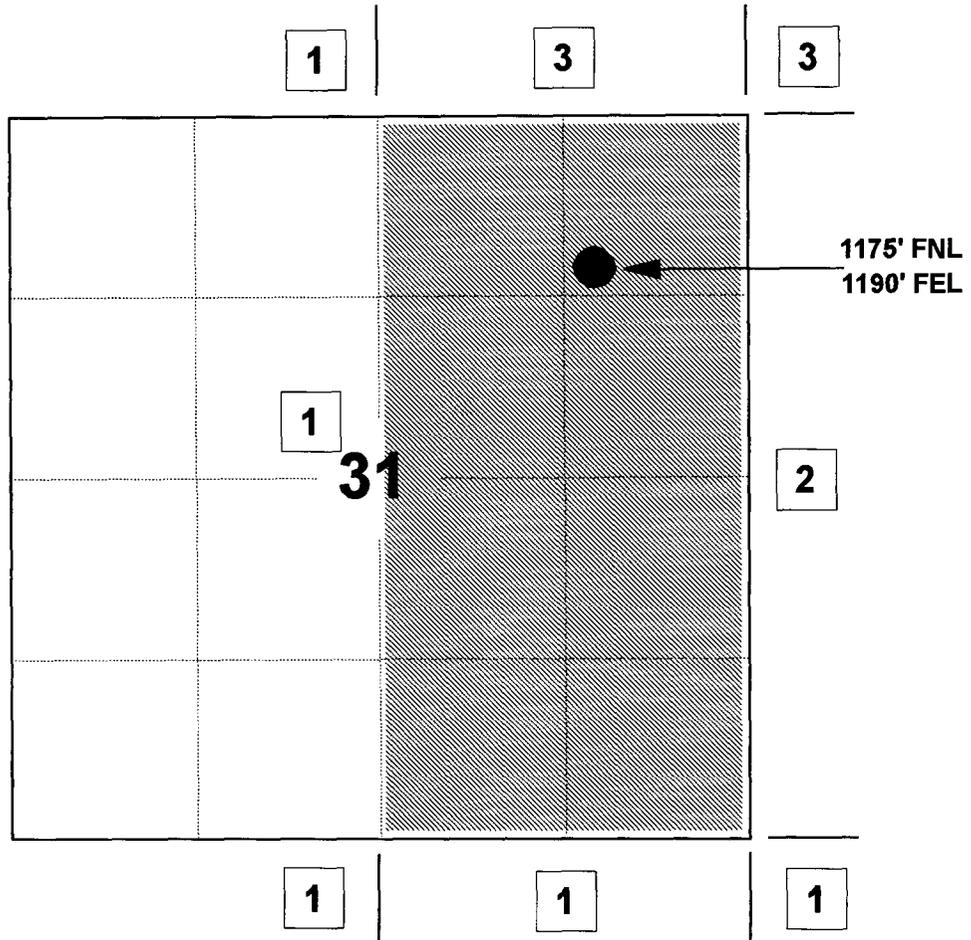
# MERIDIAN OIL INC

## SAN JUAN 29-4 UNIT #201

### OFFSET OPERATOR \ OWNER PLAT

Pictured Cliffs / Fruitland Coal Formation Commingle Well

Township 29 North, Range 4 West



1) Meridian Oil Inc

2) Richmond Petroleum

2651 N. Harwood, Ste 500, Dallas, TX 750201

3) See Attached

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Ruth Zimmerman Trust  
Attn: Hazel Hart (Sister)  
842 Muirlands Vista Way  
La Jolla, CA 92037

Max B. Rotholz  
1323 North Fulton  
Wharton, TX 77488

Thomas & Mary Dugan  
P.O. Box 420  
Farmington, NM 87499

Langdon D. Harrison  
7517 Tamarron Place, N.E.  
Albuquerque, New Mexico 87109

Kerr-McGee Corp.  
Post Office Box 11050  
Midland, Texas 79702

Robert P. Tinnin  
P.O. Box 1885  
Albuquerque, NM 87103

MAR Oil & Gas  
P.O. Box 5155  
Santa Fe, NM 87502

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Attn: Gail McBrearty  
P.O. Box 26900  
Albuquerque, NM 87125

94 MAY 2 AM 8 50 April 21, 1994

MAR Oil & Gas  
P.O. Box 5155  
Santa Fe, NM 87502

RE: San Juan 29-4 Unit #201  
Unit A, Section 31, T29N, R04W  
Rio Arriba County, New Mexico  
Downhole Commingle Request

Gentlemen:

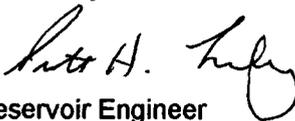
Meridian Oil Inc. is in the process of applying for a downhole commingling order from the New Mexico Oil Conservation Division (NMOCD) for the referenced well located in Rio Arriba County, New Mexico. The approved application will commingle the Pictured Cliffs and the Basin Fruitland Coal fields.

The purpose of this letter is to notify you of Meridian's application. If you have no objections to the NMOCD issuing a commingling order, we would appreciate your signing this letter and returning the original to Mr. LeMay at the following address with a copy to this office:

Mr. William LeMay  
New Mexico Oil Conservation Division  
P.O. Box 2088  
Santa Fe, NM 87501

Your prompt attention to this matter would be appreciated.

Yours truly,

  
Reservoir Engineer

The undersigned hereby waives objection to the referenced Downhole Commingle Request.

COMPANY/OWNER: MAR OIL & GAS Corp for a Down  
TITLE: PRESIDENT  
DATE: 4/29/94

**MERIDIAN OIL**

NEW MEXICO OIL CONSERVATION DIVISION  
RECEIVED

'94 MAR 6 AM 8 50

April 21, 1994

EJE Brown Company  
c/o Nationsbank of Texas, N.A.  
P.O. Box 2546  
Forth Worth, TX 76113-2546

RE: San Juan 29-4 Unit #201  
Unit A, Section 31, T29N, R04W  
Rio Arriba County, New Mexico  
Downhole Commingle Request

Gentlemen:

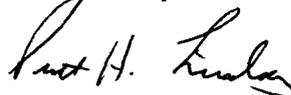
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Santa Fe, NM 87501

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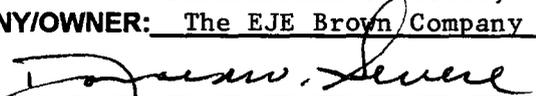
Yours truly,

  
Reservoir Engineer

**The undersigned hereby waives objection to the referenced Downhole Commingle Request.**

NationsBank of Texas, N.A. in its Fiduciary Capacity

COMPANY/OWNER: The EJE Brown Company

TITLE:   
Donald W. Severe, Vice President

DATE: 5/2/94

**MERIDIAN OIL**

April 21, 1994

Ruth Zimmerman  
Attn: Hazel Hart  
842 Muirlands Vista Way  
La Jolla, CA 92037

RE: San Juan 29-4 Unit #201  
Unit A, Section 31, T29N, R04W  
Rio Arriba County, New Mexico  
Downhole Commingle Request

Gentlemen:

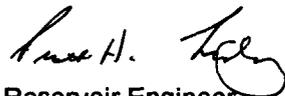
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Mr. William LeMay  
New Mexico Oil Conservation Division  
P.O. Box 2088  
Santa Fe, NM 87501

Your prompt attention to this matter would be appreciated.

Yours truly,

  
Reservoir Engineer

The undersigned hereby waives objection to the referenced Downhole Commingle Request.

COMPANY/OWNER: Ruth Zimmerman Trust  
TITLE: Trustee  
DATE: 5/9/94

RECEIVED APR 28 1994

MERIDIAN OIL CONSERVATION DIVISION  
RECEIVED

1994 MAY 27 AM 8 50

April 21, 1994



*DAC-1002*

Thomas & Mary Dugan  
P.O. Box 420  
Farmington, NM 87499

RE: San Juan 29-4 Unit #201  
Unit A, Section 31, T29N, R04W  
Rio Arriba County, New Mexico  
Downhole Commingle Request

Gentlemen:

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Mr. William LeMay  
New Mexico Oil Conservation Division  
P.O. Box 2088  
Santa Fe, NM 87501

Your prompt attention to this matter would be appreciated.

Yours truly,

*Scott H. LeMay*  
Reservoir Engineer

The undersigned hereby waives objection to the referenced Downhole Commingle Request.

COMPANY/OWNER: *Thomas A. Dugan*  
Thomas A. Dugan

TITLE: \_\_\_\_\_

DATE: *5-24-94*

MERIDIAN OIL CORPORATION DIVISION  
RECEIVED

94 JUN 7 AM 8 50

April 21, 1994

RECEIVED

By \_\_\_\_\_

MAY 3 1 1994

TRUST MINERALS  
SECTION

H.O. Pool Trust  
Attn: Debbie Burney  
P.O. Box 25189 P.O. BOX 5825  
Oklahoma City, OK 73125 DENVER CO 80217

First Interstate Bank of Denver, N.A.  
TRUST DEPT 023-

P. O. BOX 5825 T.A.

DENVER, CO 80217

RE: San Juan 29-4 Unit #201  
Unit A, Section 31, T29N, R04W  
Rio Arriba County, New Mexico  
Downhole Commingle Request

Gentlemen:

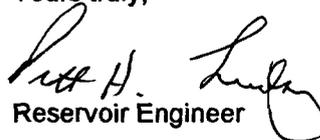
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Mr. William LeMay  
New Mexico Oil Conservation Division  
P.O. Box 2088  
Santa Fe, NM 87501

Your prompt attention to this matter would be appreciated.

Yours truly,

  
Reservoir Engineer

The undersigned hereby waives objection to the referenced Downhole  
Commingling Request. FIRST INTERSTATE BANK OF DENVER, N.A. agent  
for FIRST INTERSTATE BANK OF ARIZONA, N.A.

COMPANY/OWNER:   
Terry L. Oliver,  
TITLE: Assistant Vice President & Trust Officer

DATE: \_\_\_\_\_

Microsoft Mail v3.0 IPM.Microsoft Mail.Note  
From: Ernie Busch  
To: David Catanach  
Subject: MERIDIAN OIL INC. (DHC)  
Date: 1994-05-17 08:47  
Priority: R  
Message ID: 2551C188  
Conversation ID: 2551C188

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WELL NAME & NO.      SAN JUAN 28-4 UNIT #201  
LOCATION                      A-31-29N-04W  
RECOMMEND                  APPROVAL

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