

# Rhodes B Federal #7

## EUR Determination

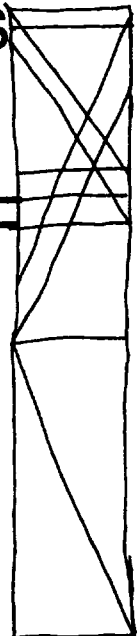
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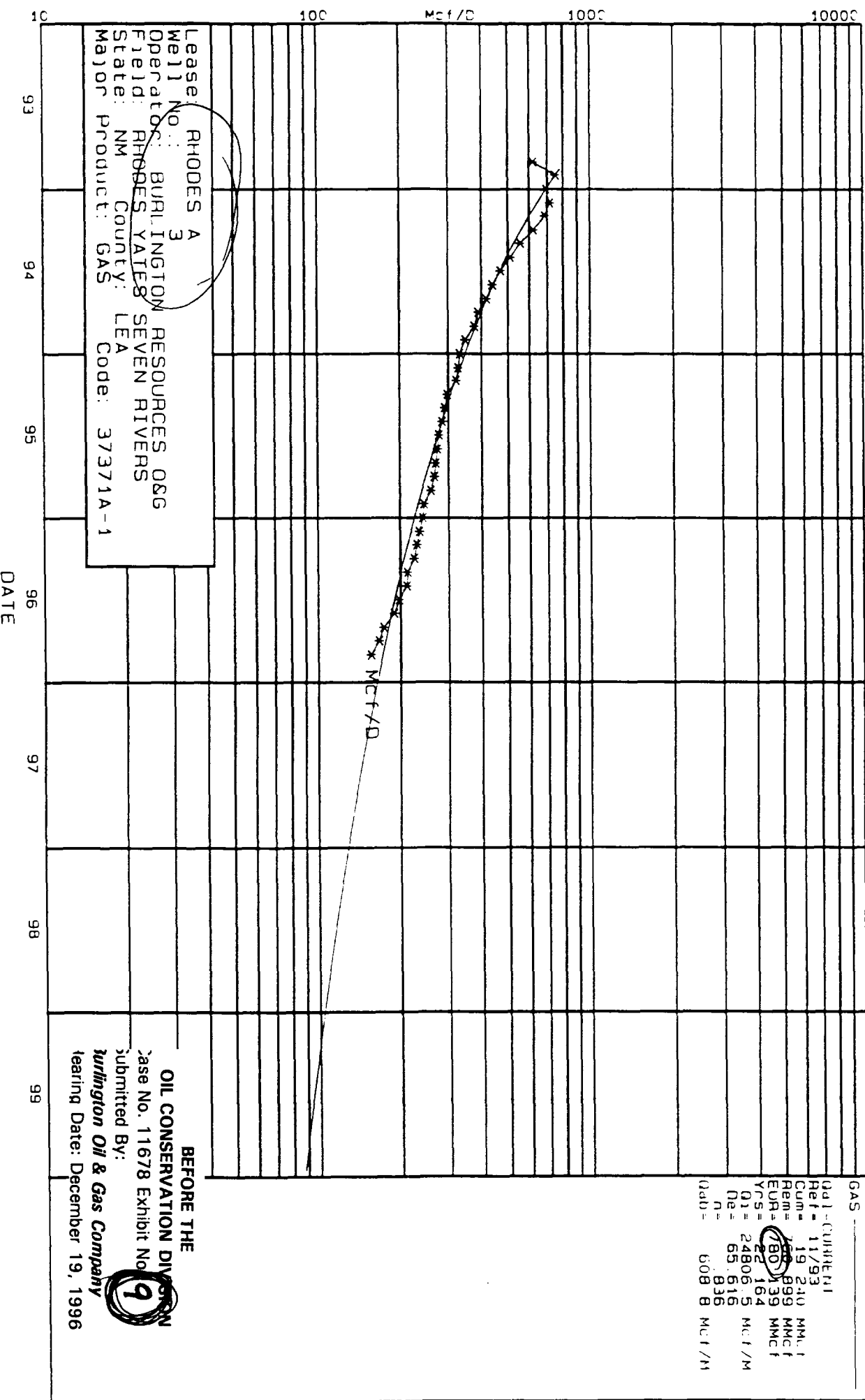
Production Decline Curve Analysis

Rhodes A #3 and #4 Analogies

EUR

585 MMCF





10 100 Mcf/D 1000 10000

Lease: RHODES A  
Well No.: 4  
Operator: BURLINGTON RESOURCES O&G  
Field: RHODES YATES SEVEN RIVERS (GAS)  
State: NM County: LEA  
Major Product: GAS Code: 58309A-1

DATE

93

94

95

96

97

98

99

Mcf/D

BEFORE THE  
OIL CONSERVATION DIVISION  
Case No. 11678 Exhibit No. 10  
Submitted By:  
Burlington Oil & Gas Company  
hearing Date: December 19, 1996

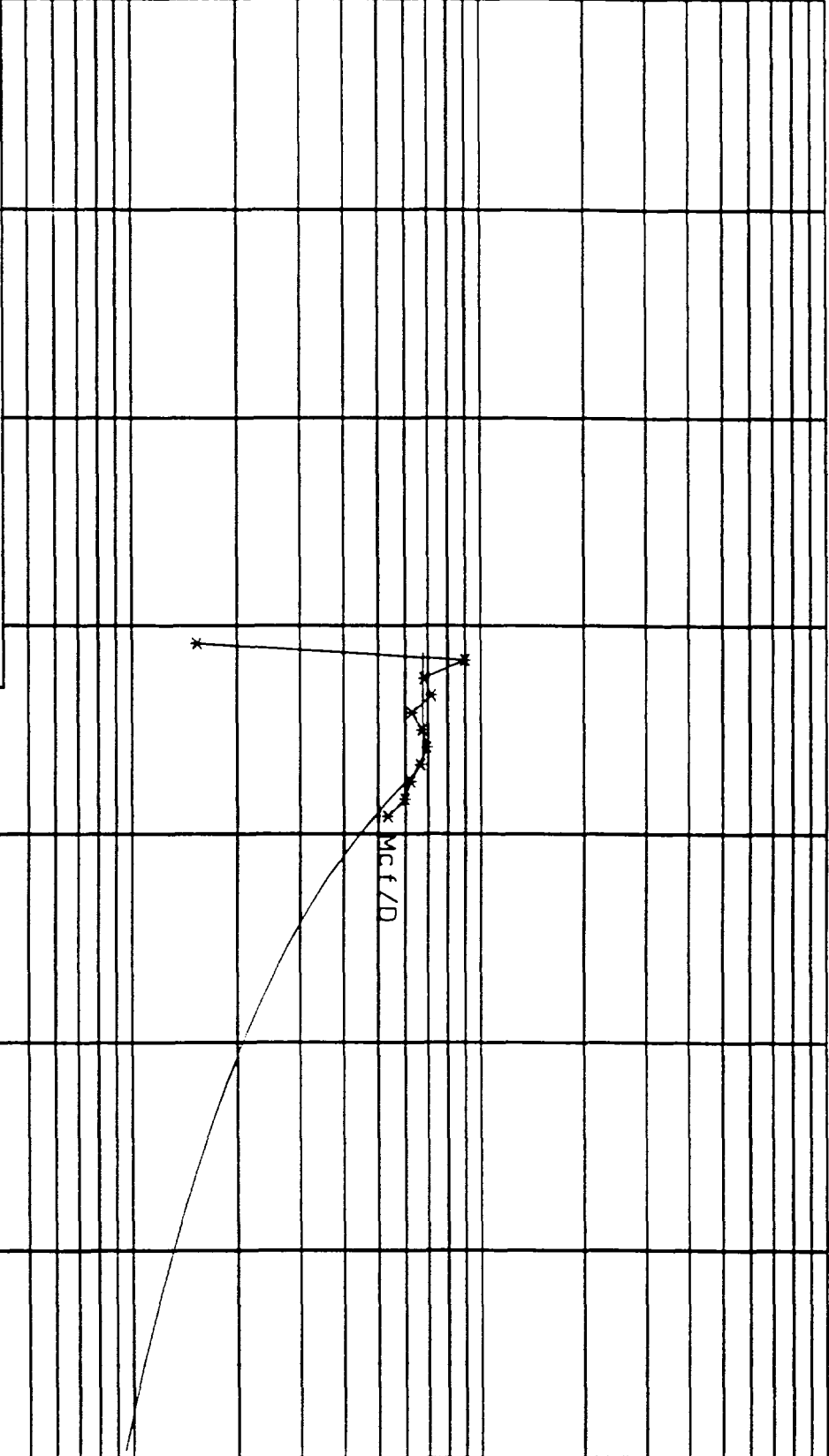
GAS —  
Qd1 - CURRENT  
Ref = 08/95  
Cum = 55,746 MMcf  
Rem = 589,731 MMcf  
EUR = 645,477 MMcf  
YRS = 11.583  
Q1 = 37574.9 Mcf/M  
De = 78.120  
n = 590  
Qd0 = 610.2 Mcf/M

10000 1000 100 Mcf/C

Lease: RHODES B FEDERAL  
Well No.: 7  
Operator: BURLINGTON RESOURCES O&G  
Field: RHODES YATES SEVEN RIVERS  
State: NM County: LEA  
Major Product: GAS Code: 59915A-1

DATE

93 94 95 96 97 98 99



BEFORE THE  
OIL CONSERVATION DIVISION  
Case No. 11678 Exhibit No. 11  
Submitted By:  
*Burlington Oil & Gas Company*  
hearing Date: December 19, 1996

GAS  
Qa1=CURRENT  
Ref = 02/96  
Cum = 4.763 MMcf  
Rem = 5.237 MMcf  
EUR = 583.978 MMcf  
YFS = 14.832  
Q1 = 20531.3 Mcf/M  
De = .000  
n = .000  
Qad = 606.7 Mcf/M

# Rhodes B Federal #7

## Drainage Area

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EUR

585 MMCF

### Reservoir Properties

Reservoir Pressure

668 psia

Average Pay

81 Feet

Average Porosity

20%

Water Saturation

22%

Drainage Area

25 Acres

# **Rhodes 23 Federal #1**

## **Vertical Well Proposal**

### **Reserve and Cost Summary**

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Drainage Area

25 Acres

Average Pay

100 Feet

EUR

710 MMCF

Investment

\$235M

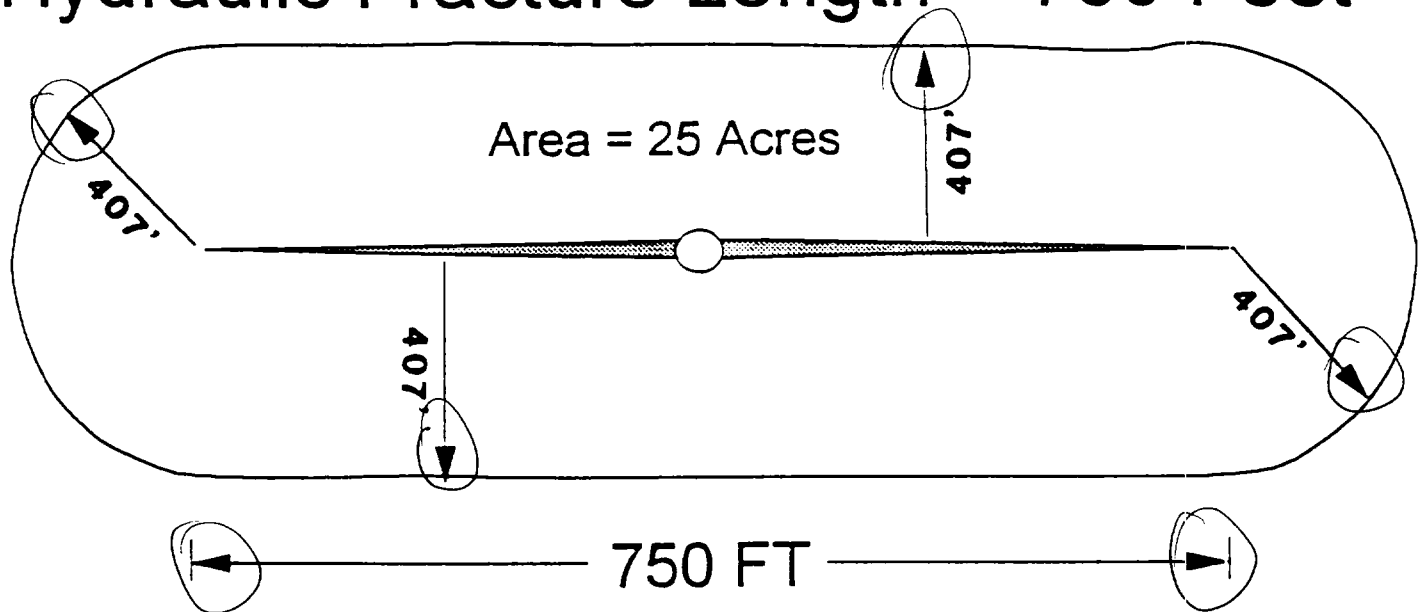
# Rhodes 23 Federal #1

## Horizontal Well Drainage Area

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### Rhodes B Federal #7

Drainage Area 25 Acres  
Hydraulic Fracture Length 750 Feet



### Hydraulic Fracture Plan View

Radius of Drainage Area 407 Feet

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### Rhodes 23 Federal #1

Horizontal Lateral  
Radius of Drainage Area  
Drainage Area

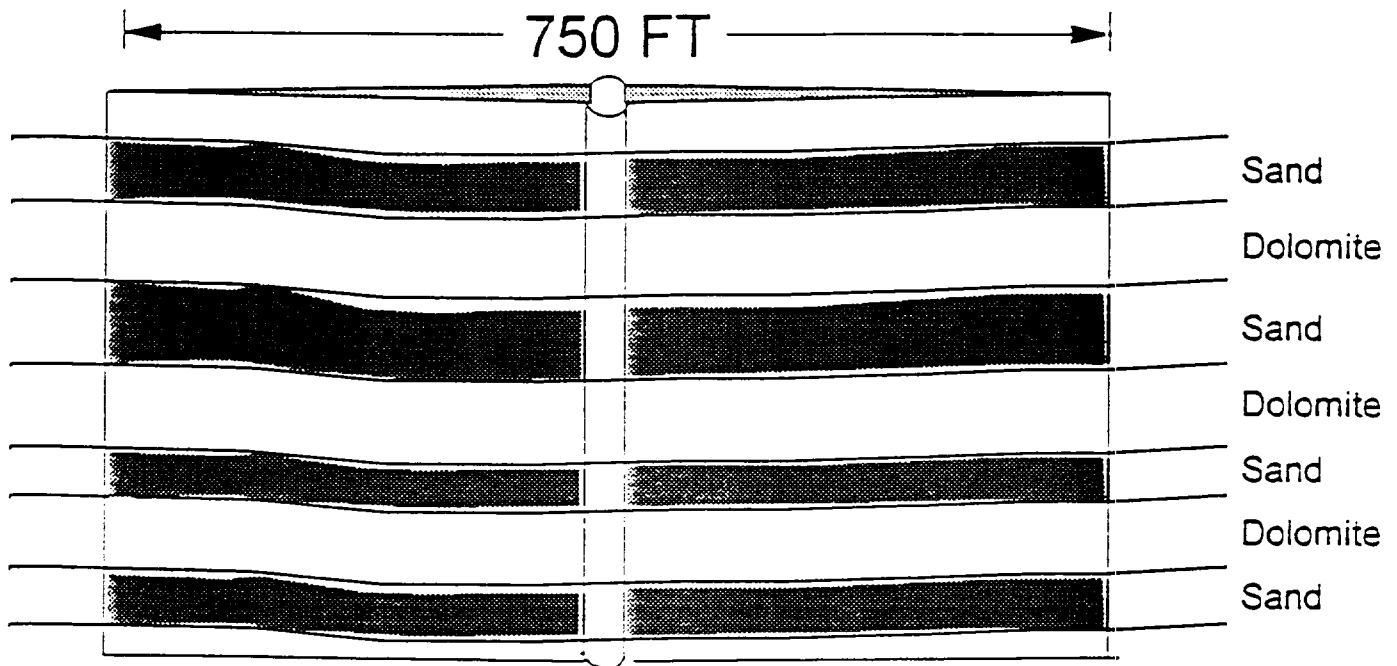
1380 Feet  
407 Feet  
38 Acres

# Rhodes 23 Federal #1

## Individual Sand Contact

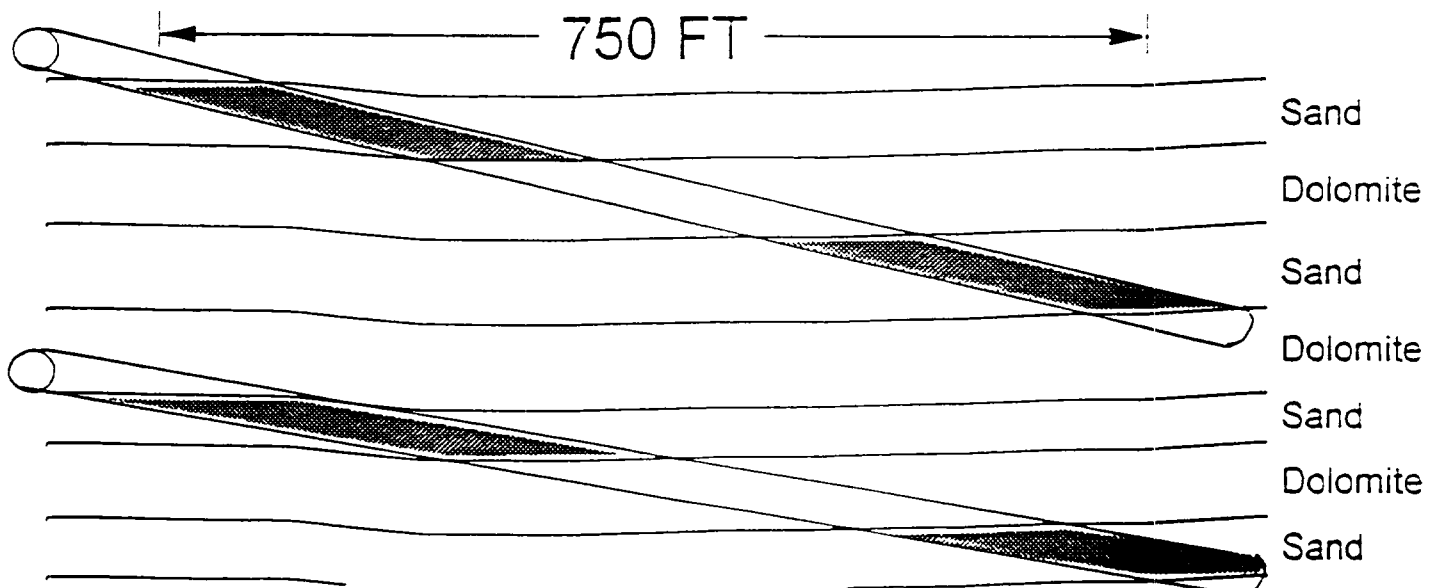
### Hydraulic Fractured Wellbore

100% Vertical Contact



### Horizontal Wellbore

40% Vertical Contact





# **Rhodes 23 Federal #1 Horizontal Well Proposal Reserve and Cost Summary**

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Radius of Drainage Area	407 Feet
Horizontal Lateral	1380 Feet
Average Pay	104 Feet
Individual Sand Contact	40%
EUR	450 MMCF
Investment	\$515M

# Rhodes 23 Federal #1

## Horizontal Well

## Opposition Summary

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- Reserve Development Waste
- Investment Waste
- Vertically Discontinuous Sands Make Horizontal Development Inappropriate
- Increased Mechanical Risk
- Wellbore Unstable Using Openhole Completion Methodology
- Artificial Lift Efficiency Reduced

BEFORE THE  
OIL CONSERVATION DIVISION  
Case No. 11678 Exhibit No. A  
Submitted By:  
*Burlington Oil & Gas Company*  
Hearing Date: December 19, 1996

**KELLAHIN AND KELLAHIN**

ATTORNEYS AT LAW

EL PATIO BUILDING

117 NORTH GUADALUPE

POST OFFICE BOX 2265

SANTA FE, NEW MEXICO 87504-2265

TELEPHONE (505) 982-4285

TELEFAX (505) 982-2047

W. THOMAS KELLAHIN\*

\*NEW MEXICO BOARD OF LEGAL SPECIALIZATION  
RECOGNIZED SPECIALIST IN THE AREA OF  
NATURAL RESOURCES-OIL AND GAS LAW

JASON KELLAHIN (RETIRED 1991)

November 27, 1996

TO:

**ALL INTERESTED PARTIES ENTITLED TO NOTICE  
OF THE HEARING OF THE FOLLOWING NEW MEXICO  
OIL CONSERVATION DIVISION CASE:**

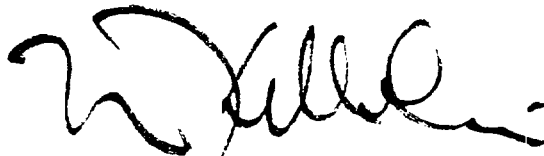
*Re: Application of Burlington Resources Oil & Gas Company  
for Compulsory Pooling,  
Lea County, New Mexico*

On behalf of Burlington Resources Oil & Gas Company (formerly Meridian Oil Inc.), please find enclosed our application for compulsory pooling for its proposed Rhodes "23" Federal Com Well No. 1 to be located in the SW/4 of Section 23, T26S, R37E, NMPM, which has been set for hearing on the New Mexico Oil Conservation Division Examiner's docket now scheduled for December 19, 1996. The hearing will be held at the Division hearing room located at 2040 S. Pacheco, Santa Fe, New Mexico.

As an interest owner who may be affected by this application, we are notifying you of your right to appear at the hearing and participate in this case, including the right to present evidence either in support of or in opposition to the application. Failure to appear at the hearing may preclude you from any involvement in this case at a later date.

Pursuant to the Division's Memorandum 2-90, you are further notified that if you desire to appear in this case, then you are requested to file a Pre-Hearing Statement with the Division not later than 4:00 PM on Friday, December 13, 1996, with a copy delivered to the undersigned. Please direct any questions to Leslyn Swierc (915) 688-6800.

Very truly yours,



W. Thomas Kellahin

cc: Burlington Resources Oil & Gas Company  
Attn: Leslyn Swierc

P 502 236 517

US Postal Service

**Receipt for Certified Mail**

No Insurance Coverage Provided

Ruth Sutton

2826 Moss

Midland, Texas 79705

Postage	\$
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Special Delivery Fee	
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Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
<b>TOTAL Postage &amp; Fees</b>	<b>\$</b>
Postmark or Date	

PS Form 3800 April 1995

P 502 236 520

US Postal Service

**Receipt for Certified Mail**

No Insurance Coverage Provided

Do not use for International Mail (See reverse)

Larry Nermyr

4C-57

Box 4106

Sidney, Montana 59270

Certified Fee	
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Return Receipt Showing to Whom, Date, & Addressee's Address	
<b>TOTAL Postage &amp; Fees</b>	<b>\$</b>
Postmark or Date	

PS Form 3800 April 1995

Is your **RETURN ADDRESS** completed on the reverse side?

<b>SENDER:</b> Complete items 1 and/or 2 for additional services: <input type="checkbox"/> Complete items 3, 4a, and 4b. <input type="checkbox"/> Print your name and address on the reverse of this form so that we can return this card to you. <input type="checkbox"/> Attach this form to the front of the mailpiece, or on the back if space does not permit. <input type="checkbox"/> Write "Return Receipt Requested" on the mailpiece below the article number. <input type="checkbox"/> The Return Receipt will show to whom the article was delivered and the date delivered.		I also wish to receive the following services (for an extra fee): 1. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.	
3. Article Addressed to: exaco Exploration & Production Inc. P.O. Box 3109 Midland, Texas 79702 Attn: Ron Lanning		4a. Article Number P 502 236 516	
5. Received By: (Print Name) X [Signature]		4b. Service Type <input type="checkbox"/> Registered <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> COD	
6. Signature: (Addressee or Agent) X [Signature]		8. Addressee's Address (Only if requested and fee is paid) P 502 236 516 MIDLAND TEXAS 79702	
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3. Article Addressed to: James E. Burr 3803 Wedgewood Court Midland, Texas 79707		4a. Article Number P 502 236 518	
5. Received By: (Print Name) X [Signature]		4b. Service Type <input type="checkbox"/> Registered <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> COD	
6. Signature: (Addressee or Agent) X [Signature]		8. Addressee's Address (Only if requested and fee is paid) P 502 236 518 MIDLAND TEXAS 79707	
PS Form 3811, December 1994		Domestic Return Receipt	

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