

Rhodes B Federal #7 EUR Determination

Production Decline Curve Analysis

Rhodes A #3 and #4 Analogies

EUR

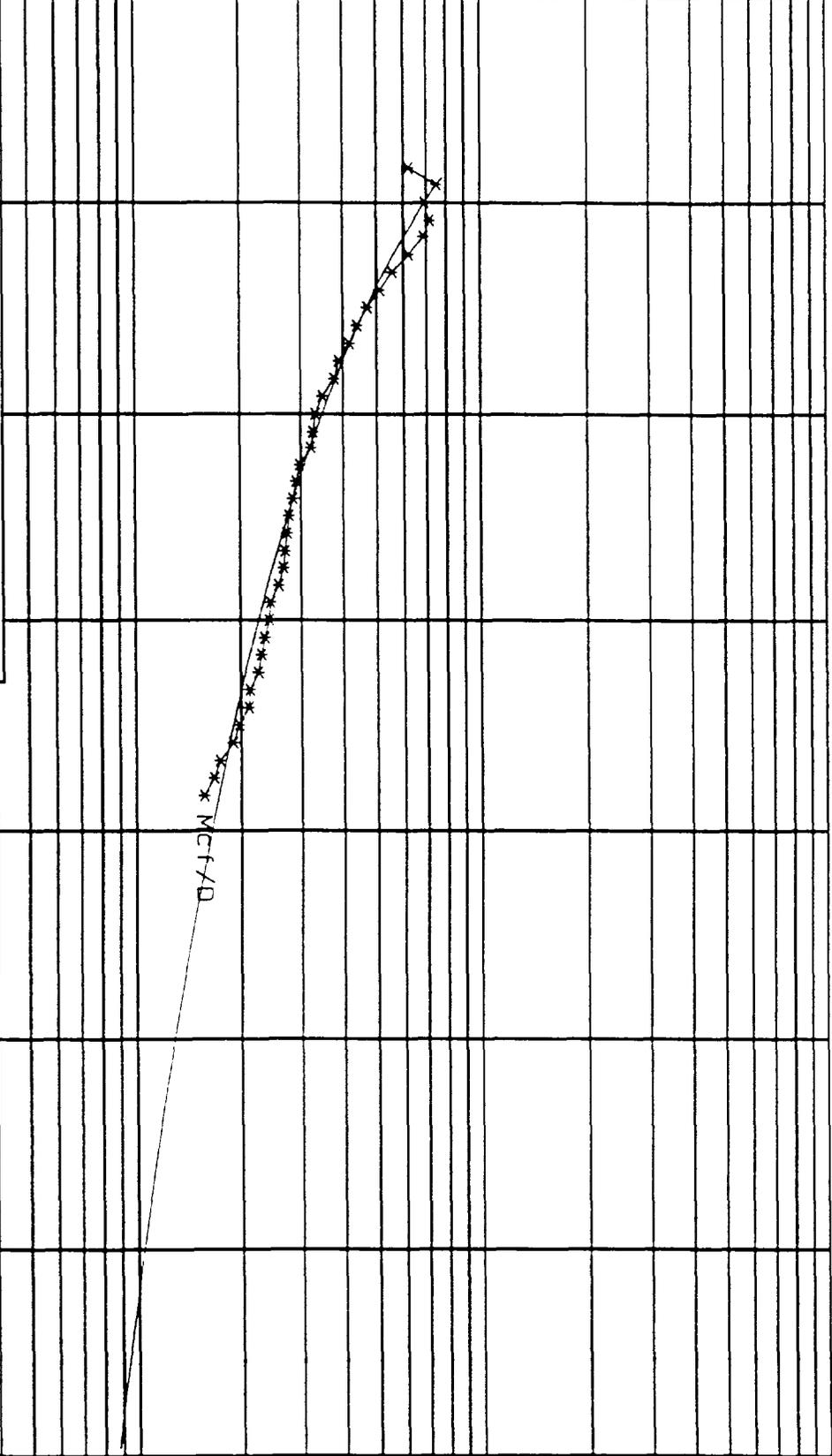
585 MMCF

10 100 1000 Mcf/D 1000 10000

Lease: RHODES A
 Well No.: 3
 Operator: BURLINGTON RESOURCES O&G
 Field: RHODES SEVEN RIVERS
 State: NM County: LEA
 Major Product: GAS Code: 37371A-1

93 94 95 96 97 98 99

DATE



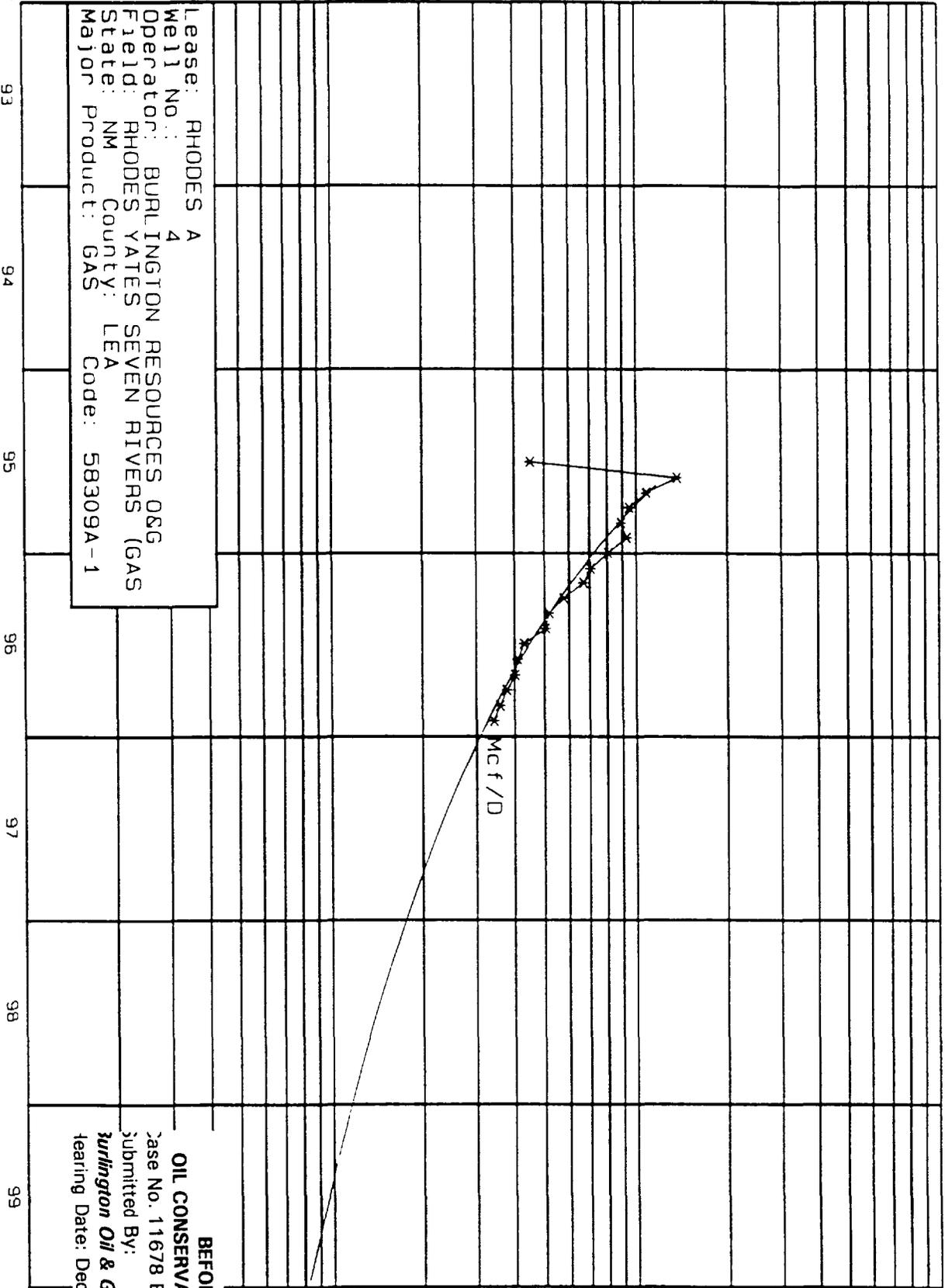
GAS
 (adj)-CURRENT
 Ref= 11/93
 Cum= 19,240 MMcf
 Perm= 760,899 MMcf
 EUR= 780,139 MMcf
 Yrs= 22,164
 Q1= 24806.5 Mcf/M
 Q2= 65,616
 Q3= 836
 Q4= 608.8 Mcf/M

BEFORE THE
 OIL CONSERVATION DIVISION
 Case No. 11678 Exhibit No. 9
 Submitted By:
 Burlington Oil & Gas Company
 Hearing Date: December 19, 1996

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



GAS
 (adj) - CURRENT
 Ref = 08/95
 Cum = 35,746 MMcf
 Rem = 589,731 MMcf
 EUR = 645,477 MMcf
 YRS = 11,583
 Q1 = 37574.59 Mcf/M
 De = 78,120
 n = 1590
 Qad = 610.2 Mcf/M

BEFORE THE

OIL CONSERVATION DIVISION

Case No. 11678 Exhibit No. 10

Submitted By:

Burlington Oil & Gas Company

Hearing Date: December 19, 1996

337 Mcf/d

10000

1000

Mcf/D

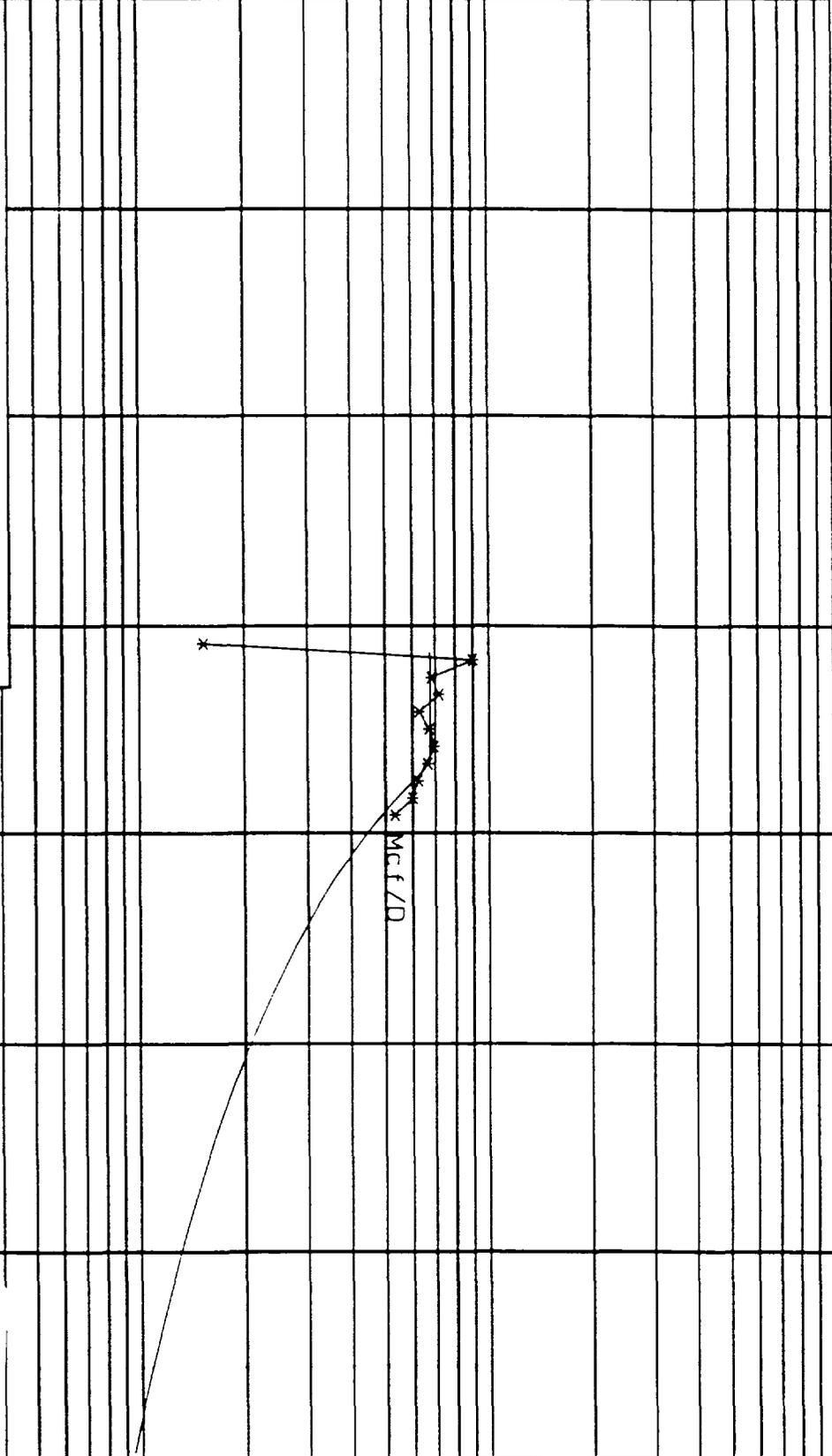
100

10

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

93 94 95 96 97 98 99

DATE



GAS

Qa1 = CURRENT

Ref = 02/96

Cum = 4.763 MMcf

Rem = 579.015 MMcf

EUR = 583.778 MMcf

YFS = 14.832

O1 = 20531.3 MCF/M

De = .000

N = .000

Uab = 606.7 MCF/M

Handwritten note: All good well in good oil pool

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

Rhodes B Federal #7 Drainage Area

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

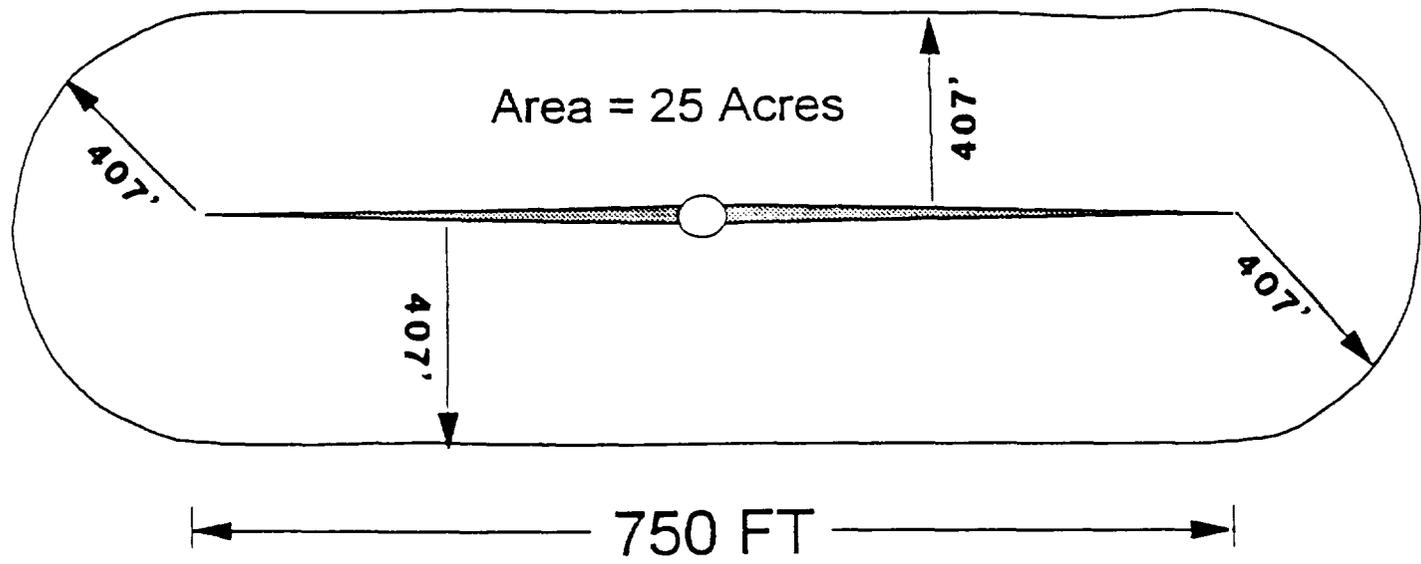
Drainage Area	25 Acres
Average Pay	100 Feet
EUR	710 MMCF
Investment	\$235M

Horizontal Well Drainage Area

Rhodes B Federal #7

Drainage Area 25 Acres

Hydraulic Fracture Length 750 Feet



Hydraulic Fracture Plan View

Radius of Drainage Area 407 Feet

Rhodes 23 Federal #1

Horizontal Lateral 1380 Feet

Radius of Drainage Area 407 Feet

Drainage Area 38 Acres

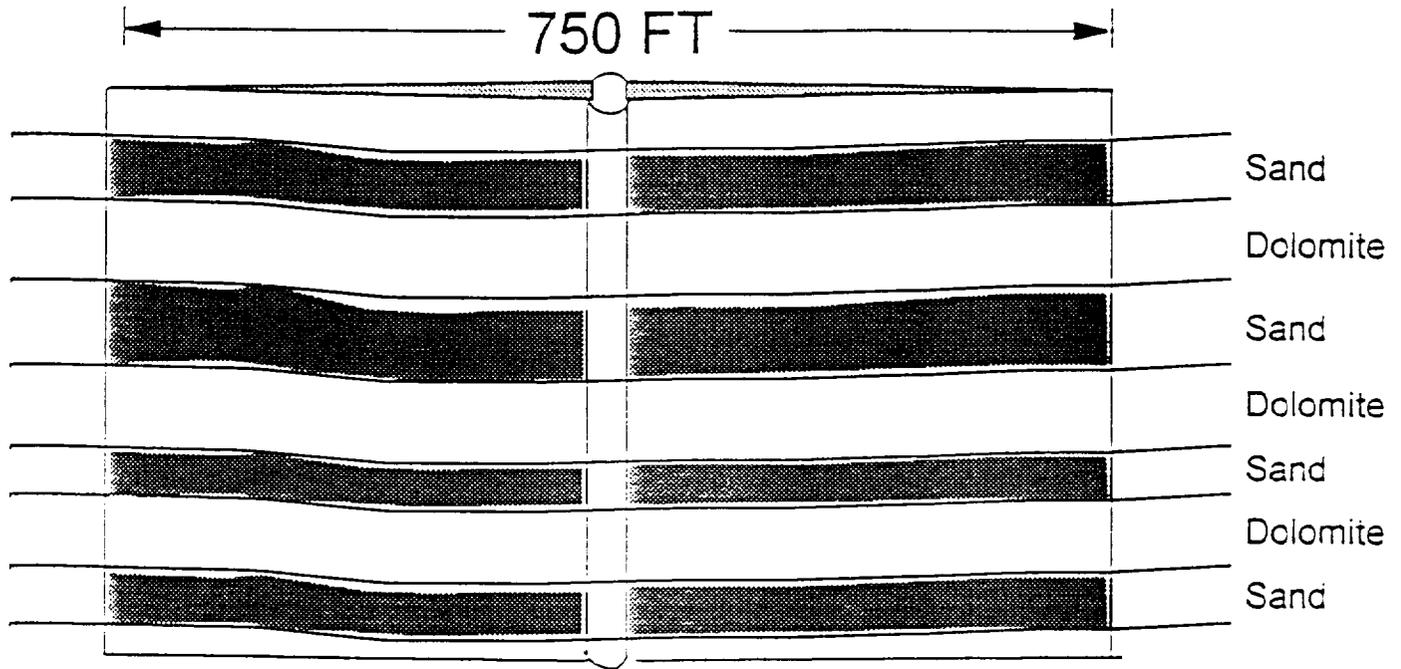
Horizontal Well.

Rhodes 23 Federal #1

Individual Sand Contact

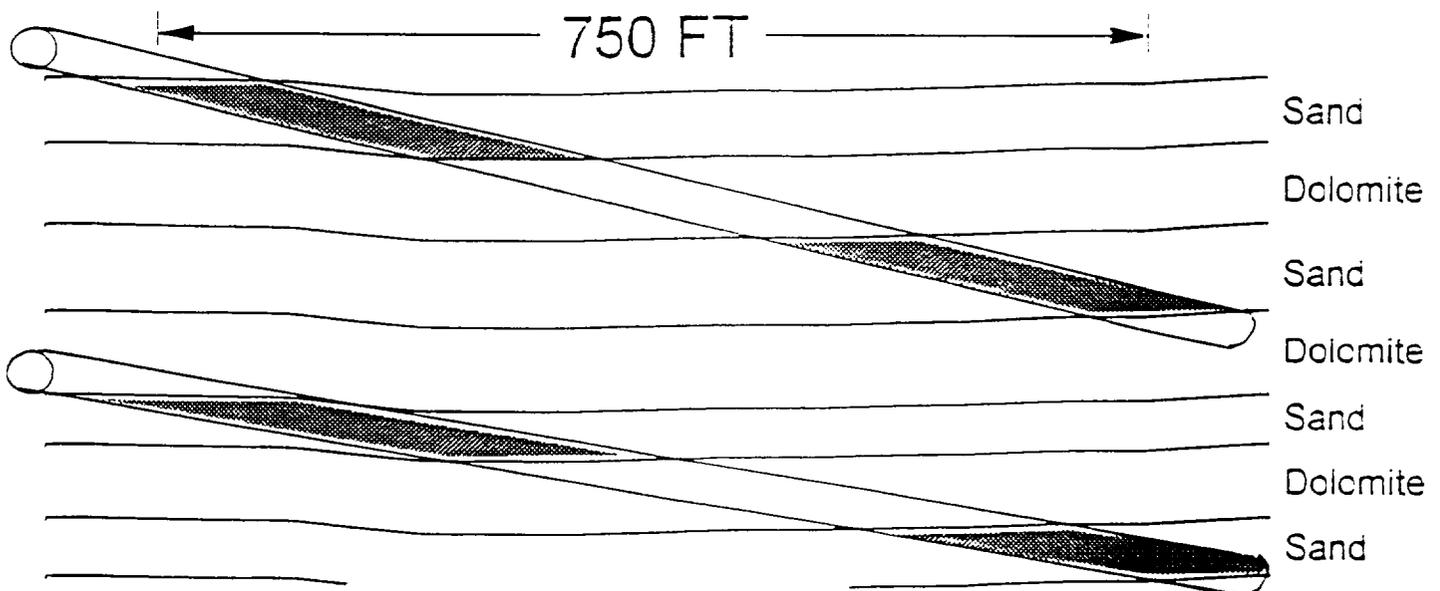
Hydraulic Fractured Wellbore

100% Vertical Contact



Horizontal Wellbore

40% Vertical Contact



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

Radius of Drainage Area	407 Feet
Horizontal Lateral	1380 Feet
Average Pay	104 Feet
Individual Sand Contact	40%
EUR	450 MMCF
Investment	\$505M

Rhodes 23 Federal #1

Horizontal Well

Opposition Summary

- 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