



#139-64

# 10-acre Density Application Lands

S 97W

6S 96W

6S 95W

6S 94W

S 97W

7S 96W

7S 95W

7S 94W

Town of Parachute

Rulison 10 Acre  
Application Type Log

Parachute 10 Acre  
Application Type Log

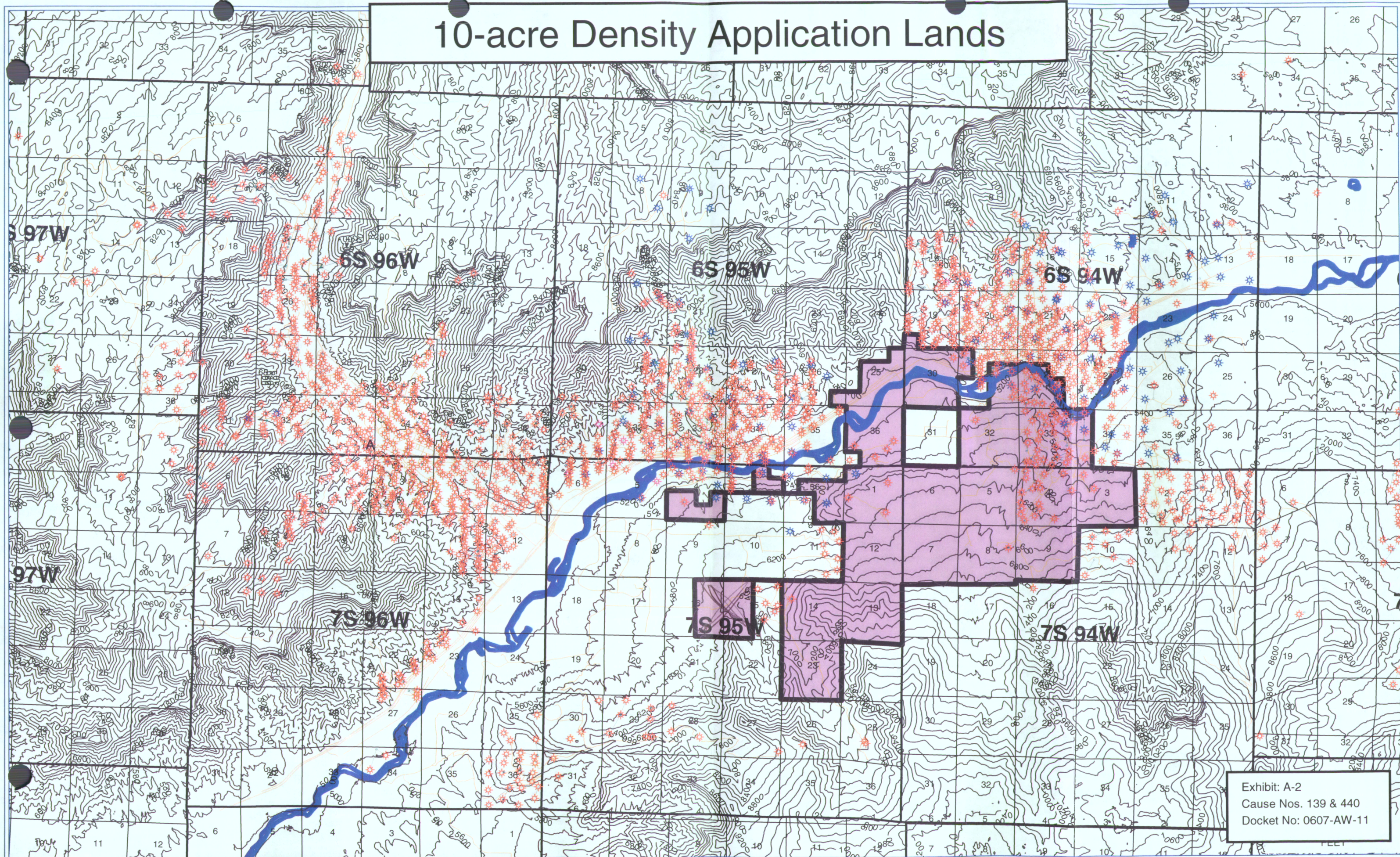
Purple = Application Area  
Green = Approved Federal 10-acre Density  
Red = Approved Fee 10-acre Density  
Blue = 10-acre Pilot Areas (2001)

Exhibit: A-1  
Cause Nos. 139 & 440  
Docket No: 0607-AW-11

I-70

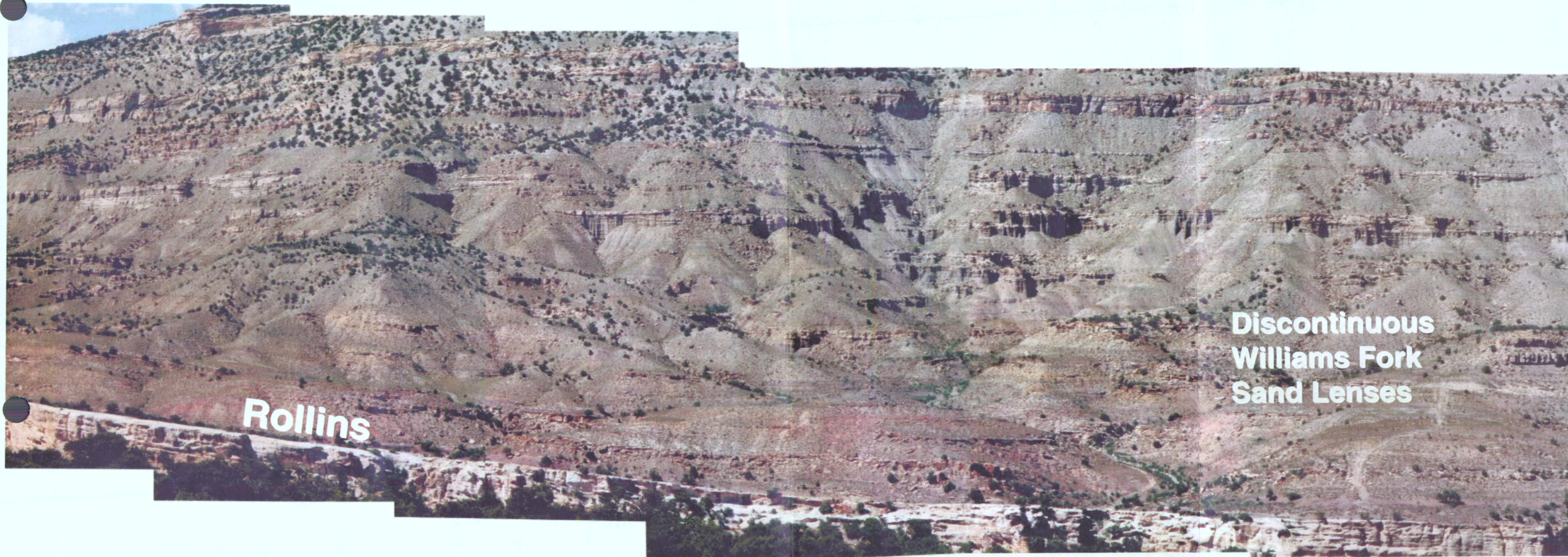


# 10-acre Density Application Lands





# Mesaverde Outcrop, Coal Canyon Near Cameo, Colorado



- Approximately 24 miles southwest of Grand Valley Field, very similar lower Williams Fork section to that producing in Grand Valley, Parachute, and Rulison Fields
- Outcrop study of excellent exposures near Cameo, Colorado was undertaken to gather data on sand body extents



Williams Fork Formation

A

RMV 209-20  
TGS RMV 209-20  
SPUD DATE: 10/01/1991  
BLVD: 10/01/1991  
TD: 17,352

740ft

RWF 534-20  
TGS RWF 534-20  
SPUD DATE: 10/01/1991  
BLVD: 10/01/1991  
TD: 17,376

673ft

A'

RMV 210-20  
TGS RMV 210-20  
SPUD DATE: 10/01/1991  
BLVD: 10/01/1991  
TD: 17,376

Cameo Coal Interval

Cameo Coal Interval

Cameo Coal Interval

Cameo Coal Interval

Cameo Coal Interval

Rollins Sandstone

Rollins Sandstone



Williams Fork Formation

B

1216ft

905ft

B'

Cameo Coal Interval

Cameo Coal Interval

Cameo Coal Interval

Cameo Coal Interval

Cameo Coal Interval

Rollins Sandstone

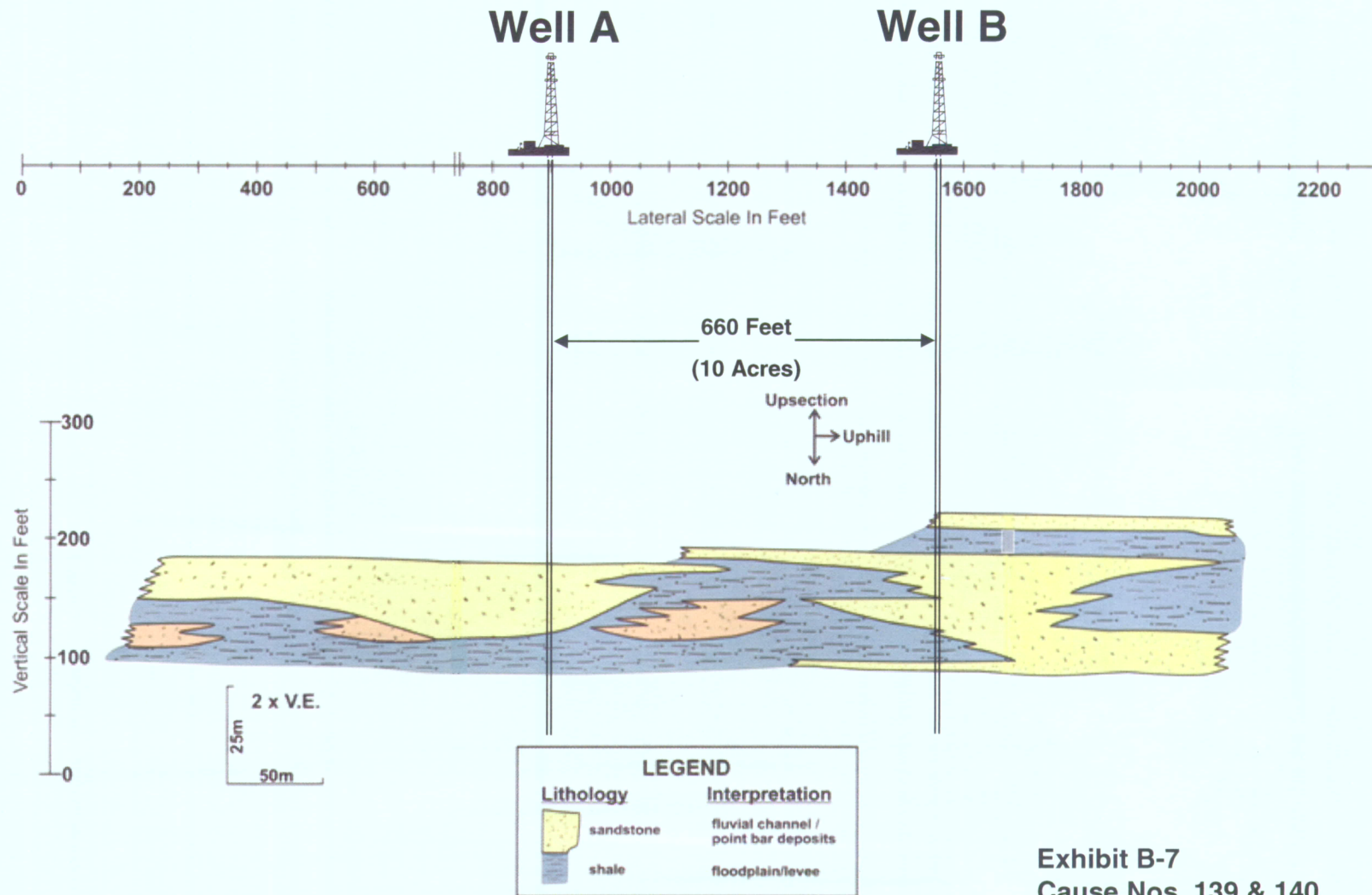
Rollins Sandstone

Exhibit B-6  
Cause Nos. 139 & 140  
Docket No. 0607-AW-11



# Williams Fork Sandstone Bodies With Hypothetical 10-Acre Wells

Eastern Margin of Piceance Basin - Mesaverde Outcrop at Rifle Gap (near Rifle, Colorado)



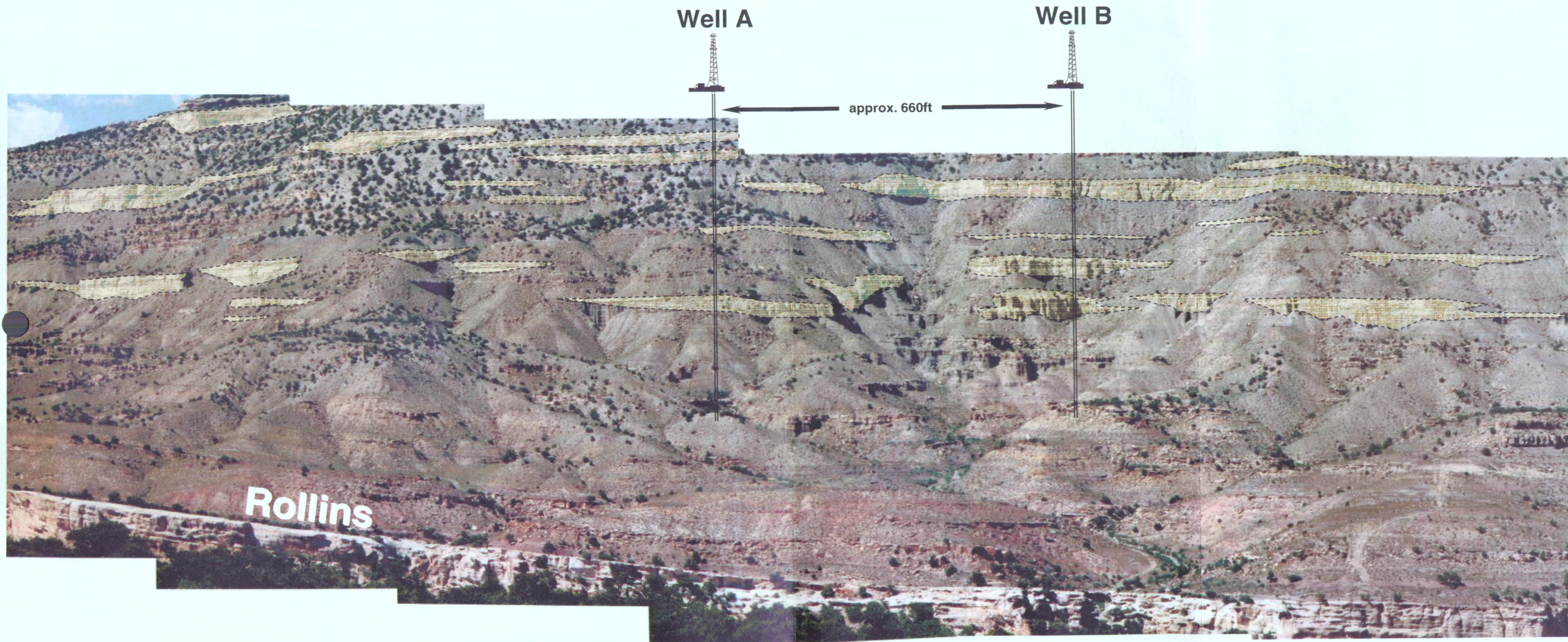
Outcrop of lens 8, west side of Rifle Gap, modified from Lorenz, 1982 (Pg. 28, Fig. 12).

Exhibit B-7  
Cause Nos. 139 & 140  
Docket No. 0607-AW-11



# Williams Fork Sandstone Bodies With Hypothetical 10-acre wells

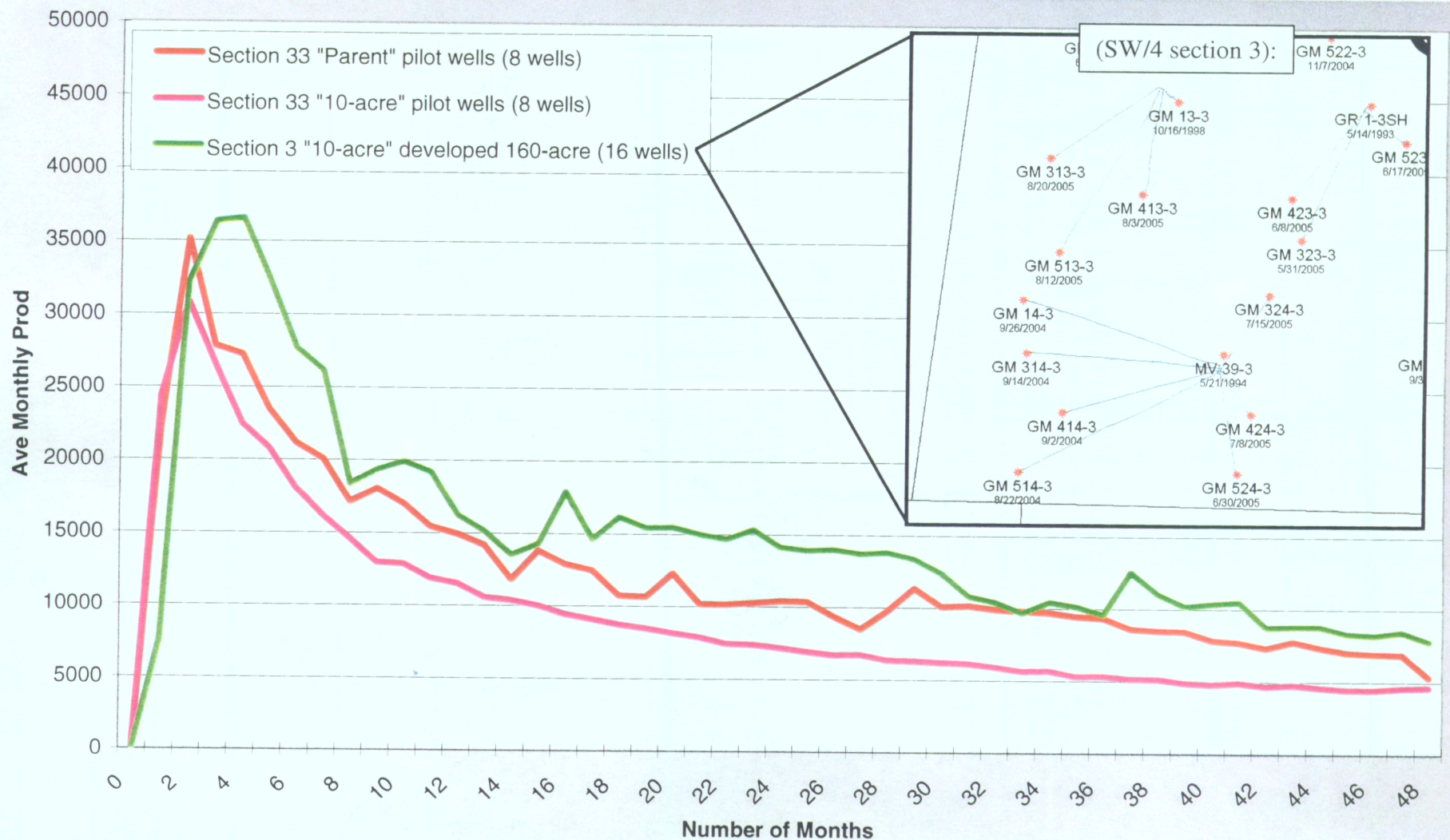
Western Margin of Piceance Basin - Mesaverde Outcrop in Coal Canyon (near Cameo, Colorado)





# Adjacent 160-acre in Grand Valley Field

## Average Monthly Production with "Optimal" Well Placement





# Adjacent 160-acre in Rulison Field

## Average Monthly Production with "Optimal" Well Placement

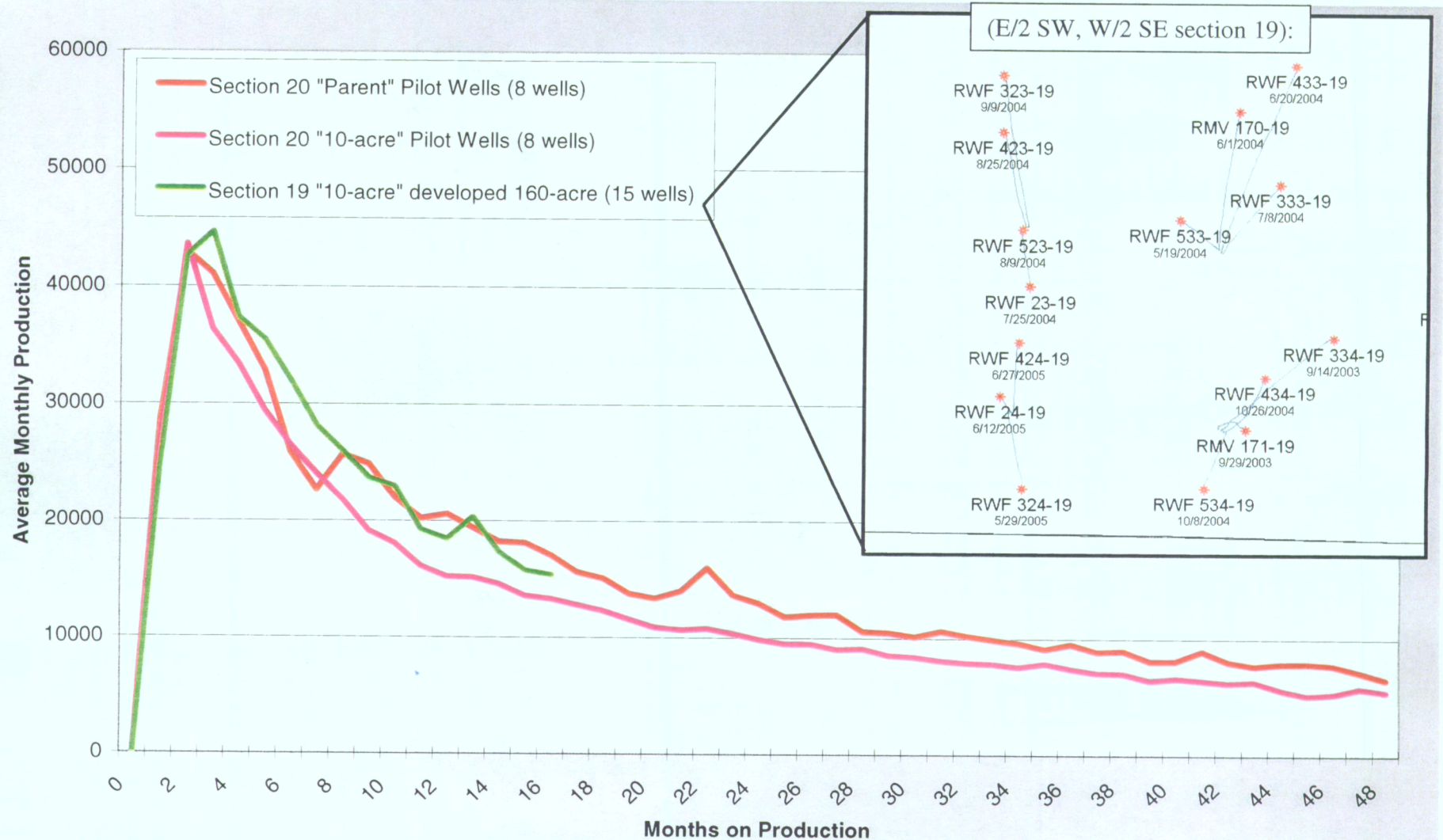


Exhibit: C-10  
Cause Nos. 139 & 440  
Docket No: 0607-AW-11



# Grand Valley Field Average Monthly Production Comparison

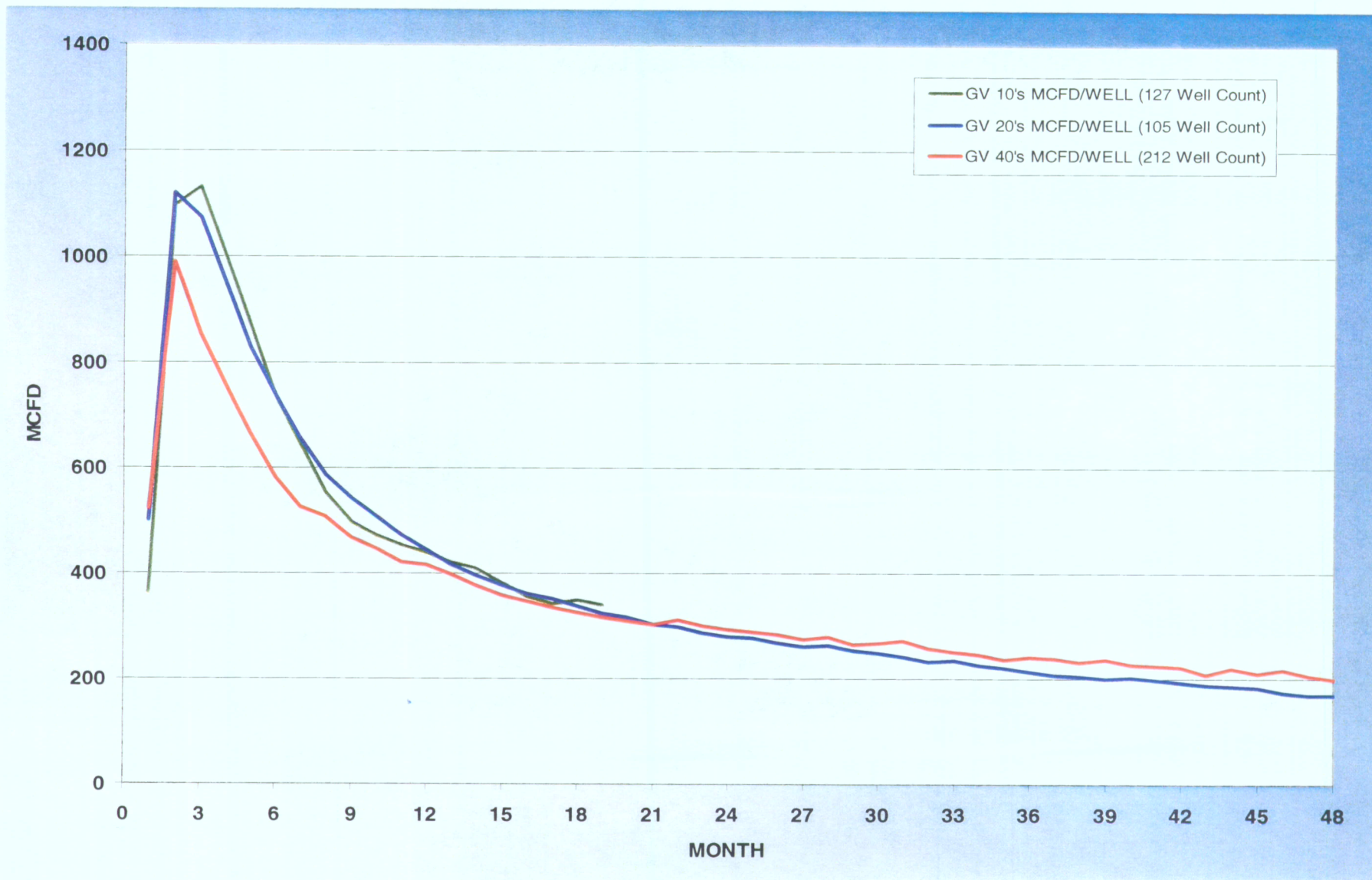


Exhibit: C-11  
Cause Nos. 139 & 440  
Docket No: 0607-AW-11



# Parachute Field Average Monthly Production Comparison

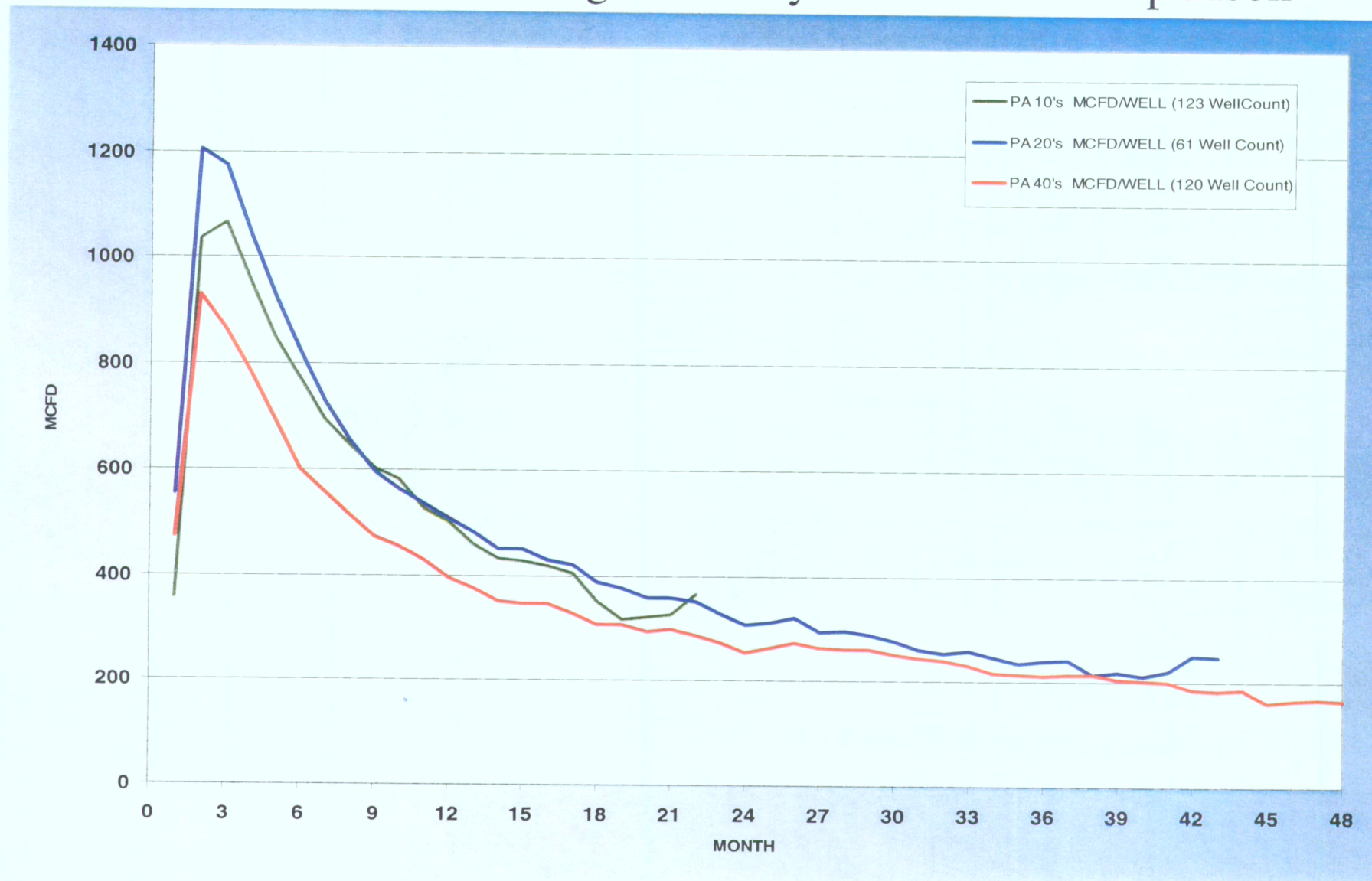


Exhibit: C-12  
Cause Nos. 139 & 440  
Docket No: 0607-AW-11



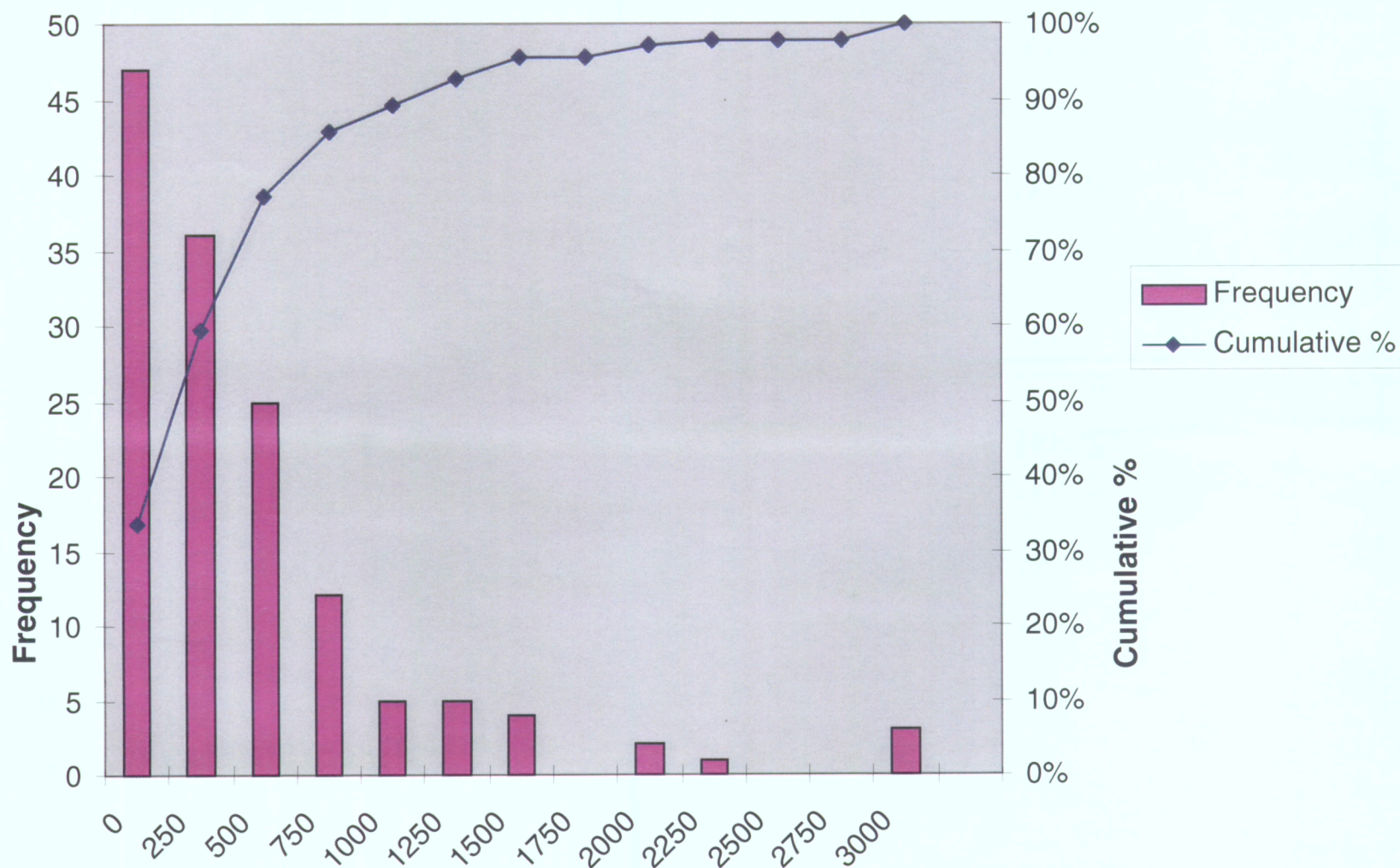
# Rulison Field Average Monthly Production Comparison



Exhibit: C-13  
Cause Nos. 139 & 440  
Docket No: 0607-AW-11



## Williams Fork Outcrop Sand Body Sizes



**Average Extents of 137 Sand Bodies=682 ft**

Exhibit B-4  
Cause Nos. 139 & 140  
Docket No. 0607-AW-11