

440-32

EXHIBIT A

APPLICANT: APOLLO ENERGY CORPORATION  
GARFIELD COUNTY/UN-NAMED FIELD

CAUSE NO. 139  
DOCKET NO. 0603-SP-12

EXISTING SPACING ORDER MAP

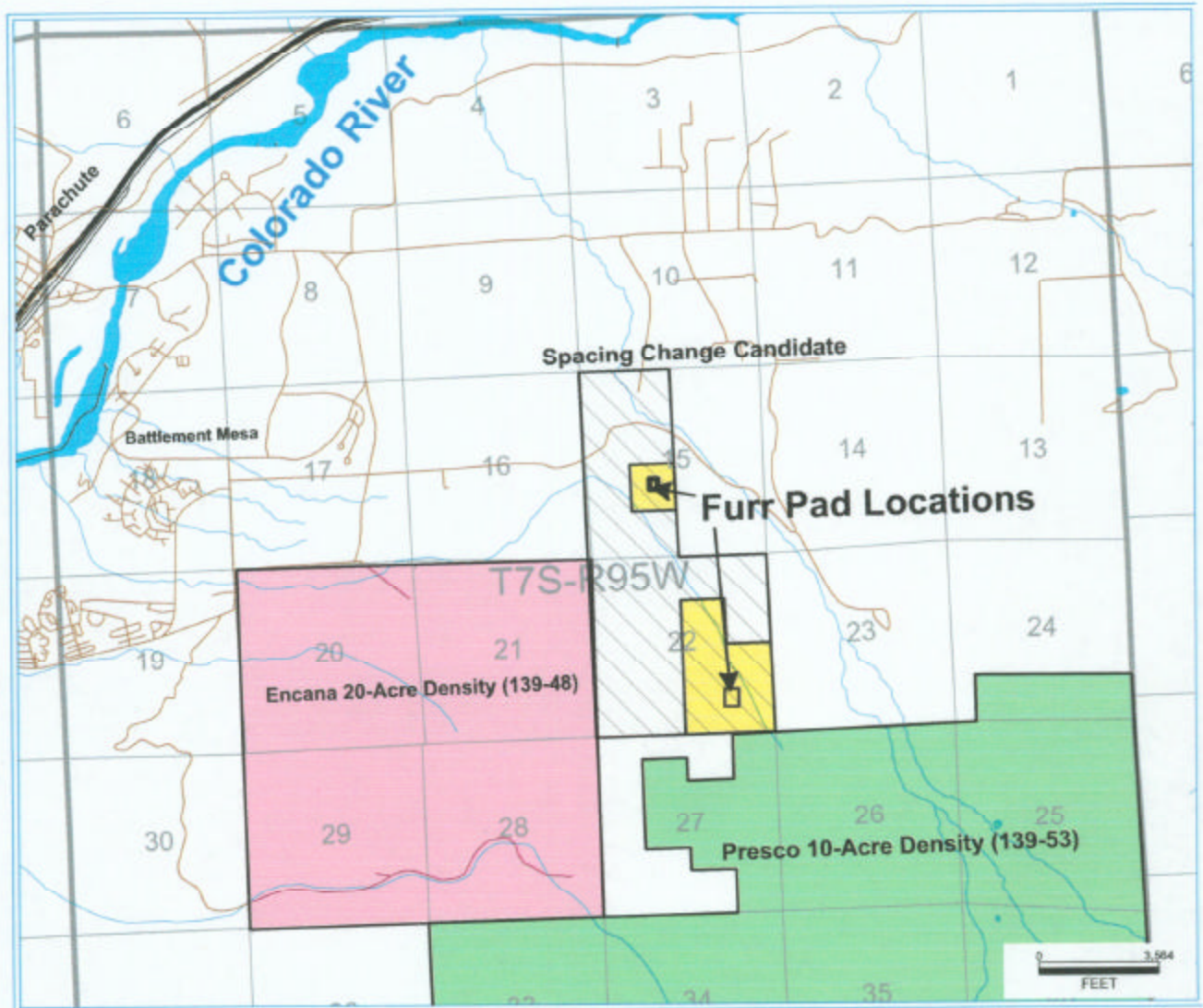


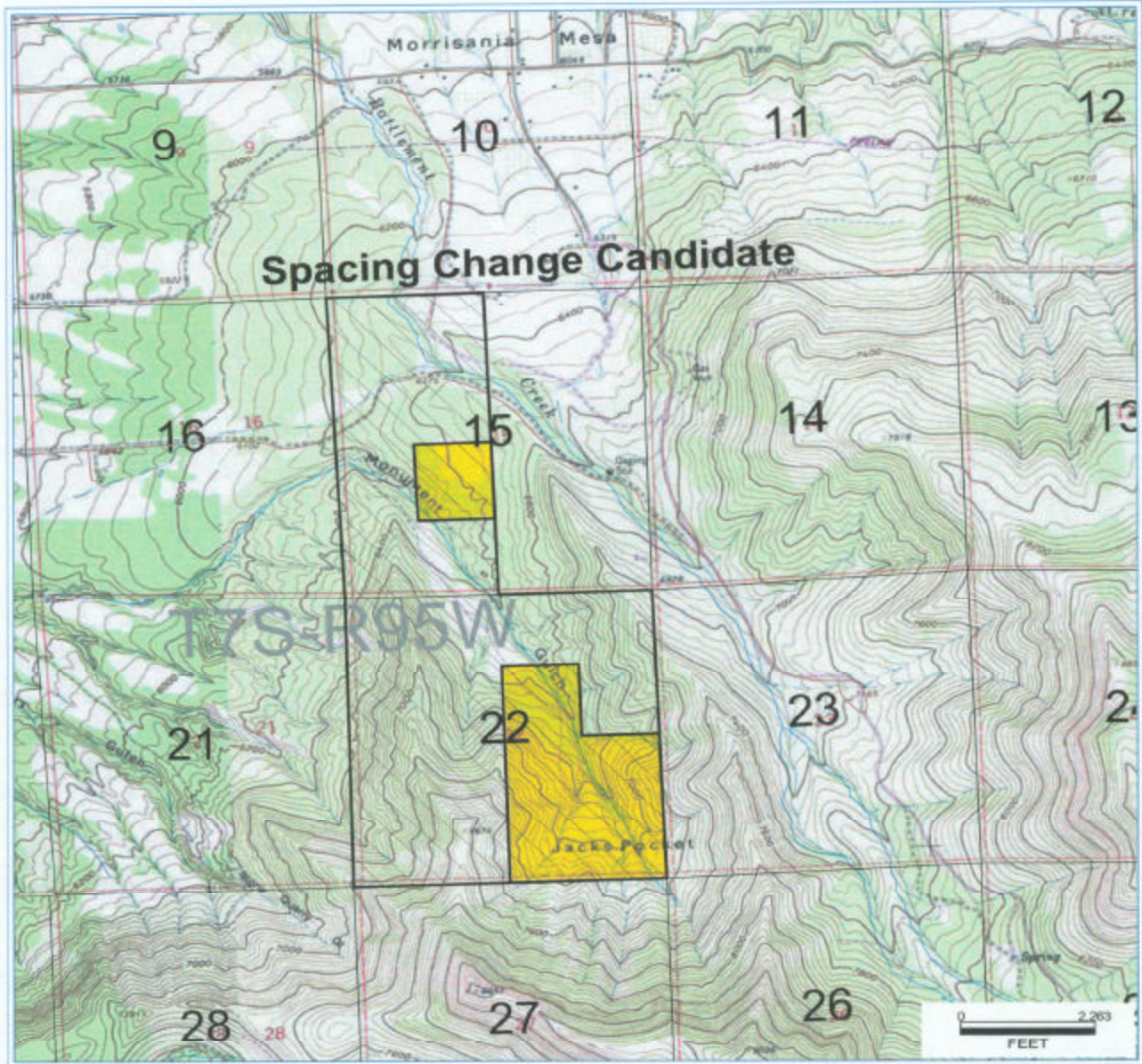


EXHIBIT B

APPLICANT: APOLLO ENERGY CORPORATION  
GARFIELD COUNTY/UN-NAMED FIELD

CAUSE NO. 139  
DOCKET NO. 0603-SP-12

TOPOGRAPHICAL MAP





## PICEANCE BASIN MAP

Stephen P. Camella and Douglas B. Ostby



Figure 2. Map of Piceance Basin showing location of gas fields producing from Williams Fork basin-centered gas reservoirs. Structure contours on top of Rollins Sandstone. Modified from Johnson (1989).

Corcoran and Cozzette regressions are each made up of at least two regressive cycles that exhibit relatively little stratigraphic rise, as indicated by the relatively consistent thickness between the two units (Fig. 6). The trend of the Rollins shoreline was north-northeast to south-southwest based on the top Cozzette to top Rollins isopach trend (Fig. 8) and this single regressive cycle shows pronounced stratigraphic rise (Fig. 6). The nature of the regressions of the Corcoran and Cozzette differs significantly from that of the Rollins. The style of the regressions indicates a change from low to high accommodation between the time of the Corcoran and Cozzette regressions and that of the Rollins regression. The regional cross sections of Hettlinger and Kirschbaum (2002) and Johnson (1989) show a similar style of these regressions. The change from low to high accommodation and the shift of shoreline orientation from northeast to north-northeast suggests a possible tectonically influenced shift in basin subsidence. It

is possible that the change in the nature of the Corcoran-Cozzette and Rollins regressions is related to the initial stages of the Laramide orogeny. The beginning of Laramide tectonism in the Piceance Basin traditionally has been thought to occur near the end of Williams Fork deposition (Johnson, 1989).

Also evident on Figure 6 is the presence of regressive marine cycles above the Rollins east of Rulison Field. These marine tongues are present east of a dramatic stratigraphic rise of the Rollins between the wells on Figure 6 located in Sec. 36, T6S, R94W and Sec. 34, T6S, R93W. Seismic data show that this stratigraphic rise is closely related to faulting (Fig. 7). The stratigraphic rise may be caused by increased accommodation due to more rapid subsidence on the east side of the fault. This dramatic stratigraphic rise extends to the south as shown on Figure 8.

The Cameo coal zone of the Williams Fork Formation overlies the Rollins and was deposited in paludal environments

# EXHIBIT D

APPLICANT: APOLLO ENERGY CORPORATION  
GARFIELD COUNTY/UN-NAMED FIELD

CAUSE NO. 139  
DOCKET NO. 0603-SP-12

## PICEANCE BASIN SCHEMATIC CROSS SECTION

*Stephen P. Cumella and Douglas B. Ostby*

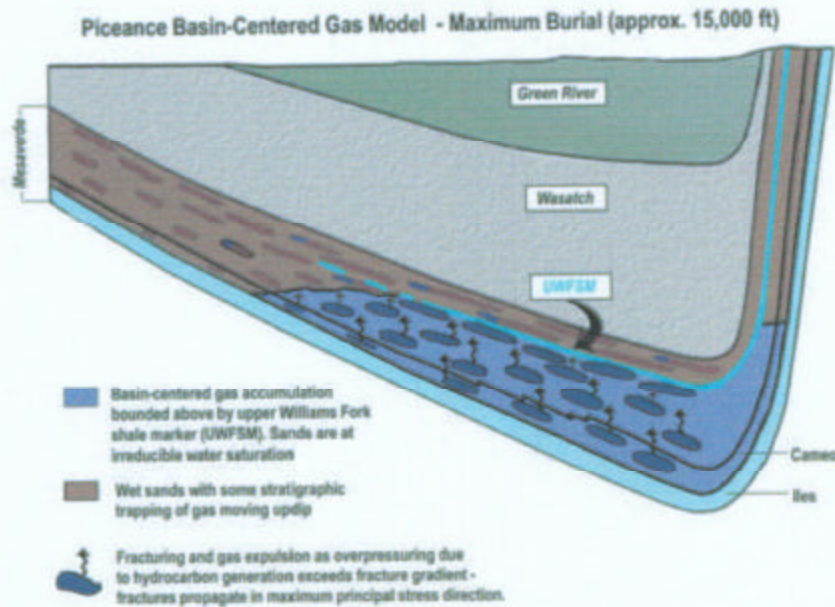


Figure 25. Basin-centered gas model for the Piceance Basin during maximum burial. Line of cross section shown on Figure 26.

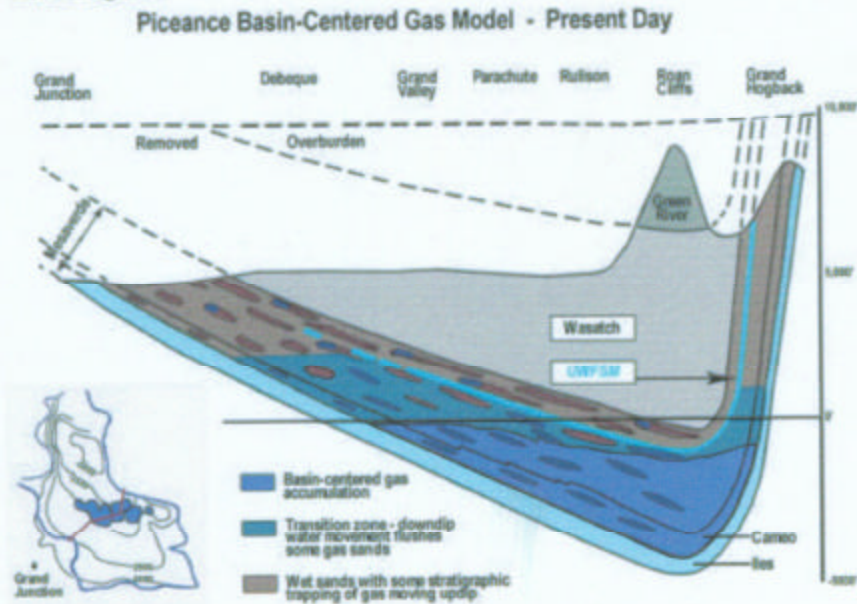


Figure 26. Basin-centered gas model for the Piceance Basin for present day. Line of cross section shown on inset map.



TYPE LOG

*Stephen P. Cumella*

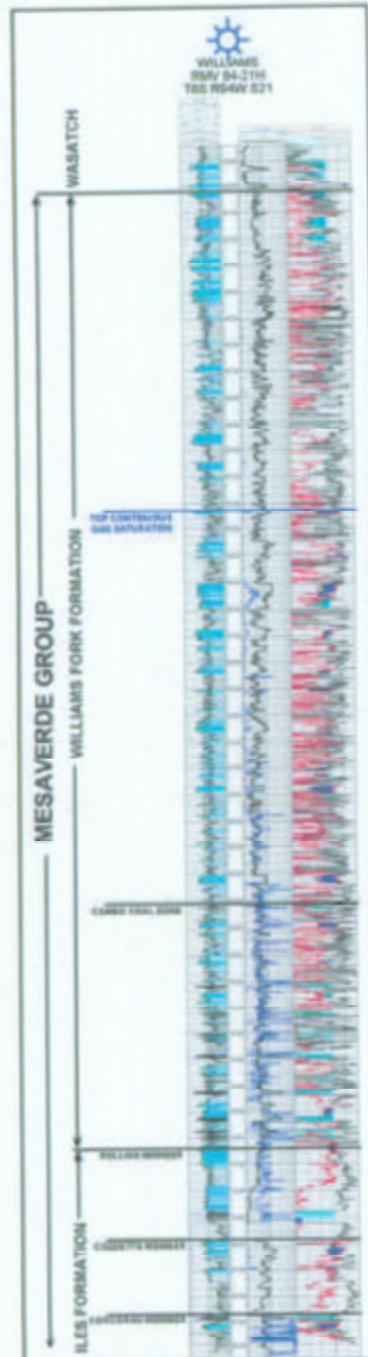


Figure 1. Type log for the Mesaverde Group in the Grand Valley, Parachute, and Rulison area.

# EXHIBIT F

APPLICANT: APOLLO ENERGY CORPORATION  
GARFIELD COUNTY/UN-NAMED FIELD

CAUSE NO. 139  
DOCKET NO. 0603-SP-12

## FLUVIAL SYSTEM REPRESENTATION

*Stephen P. Cumella and Douglas B. Ostby*

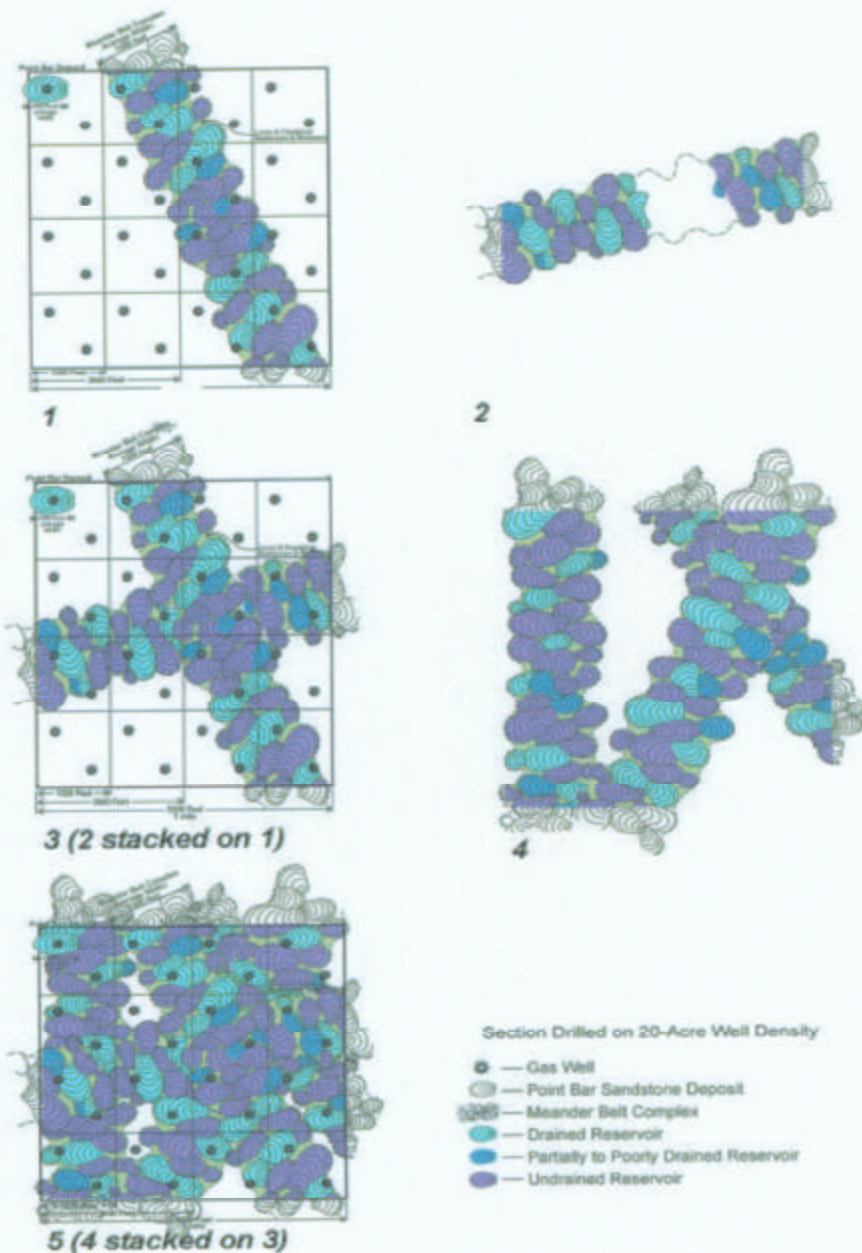


Figure 28. Stacking of hypothetical Williams Fork meanderbelt sandstone reservoirs showing the need for 10-acre density. Figure originally done by Terry Barrett.

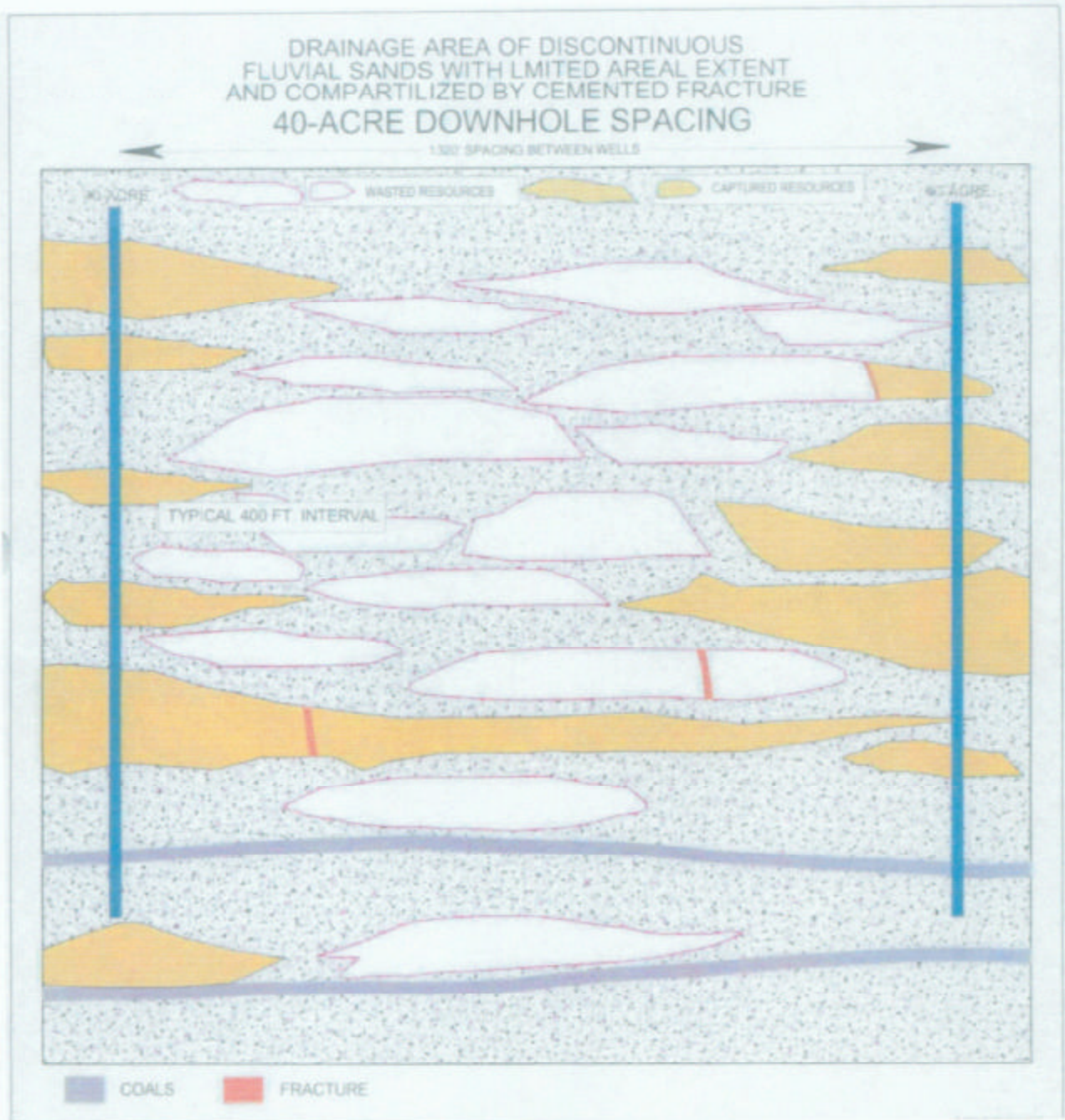


## EXHIBIT H

APPLICANT: APOLLO ENERGY CORPORATION  
GARFIELD COUNTY/UN-NAMED FIELD

CAUSE NO. 139  
DOCKET NO. 0603-SP-12

### WASTED RESOURCE ON 40-ACRE SPACING

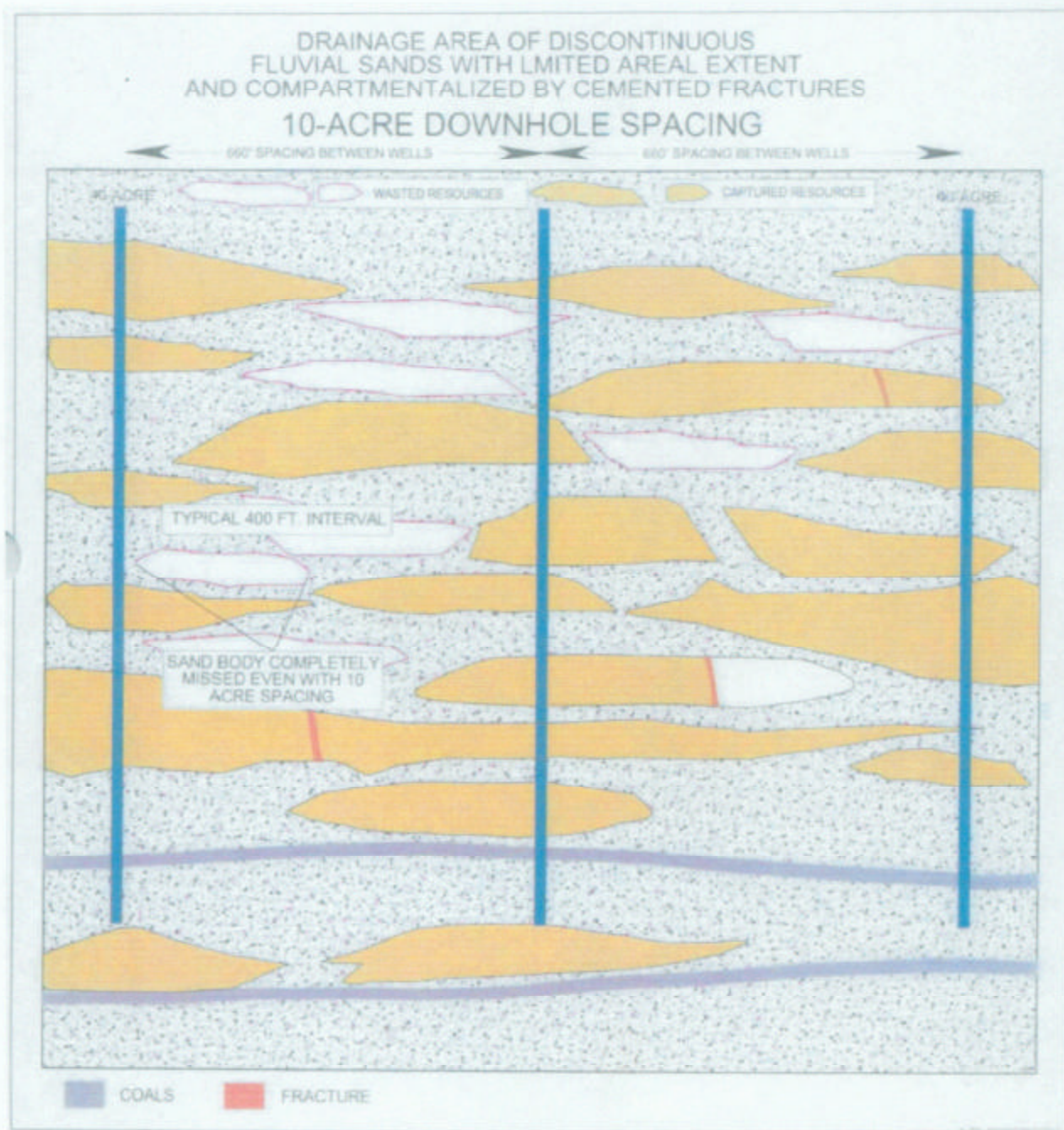


## EXHIBIT I

APPLICANT: APOLLO ENERGY CORPORATION  
GARFIELD COUNTY/UN-NAMED FIELD

CAUSE NO. 139  
DOCKET NO. 0603-SP-12

### WASTED RESOURCE AT 10 ACRE SPACING



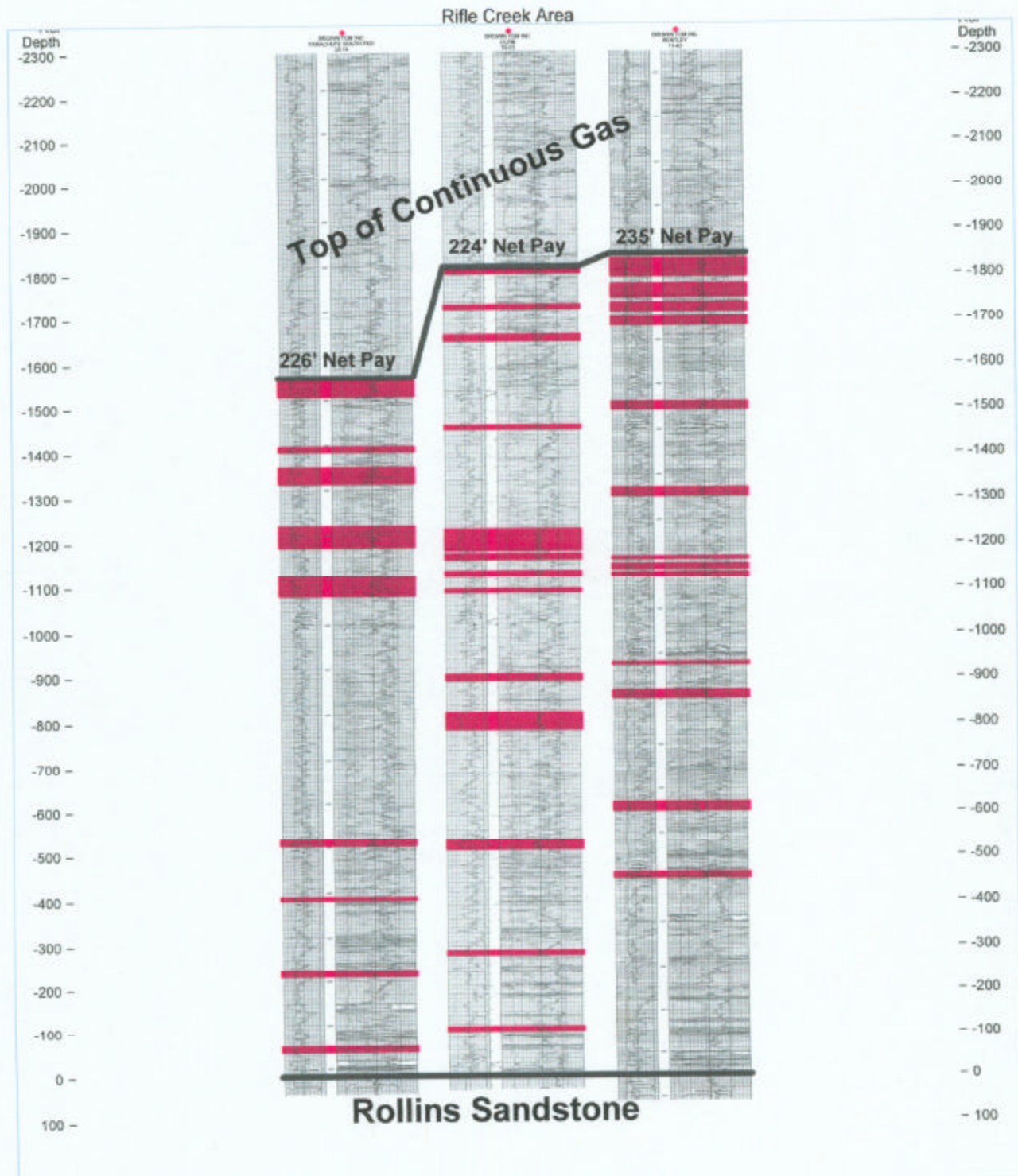


## EXHIBIT J

APPLICANT: APOLLO ENERGY CORPORATION  
GARFIELD COUNTY/UN-NAMED FIELD

CAUSE NO. 139  
DOCKET NO. 0603-SP-12

### LOG CROSS SECTION OF RECENT ADJACENT WELLS

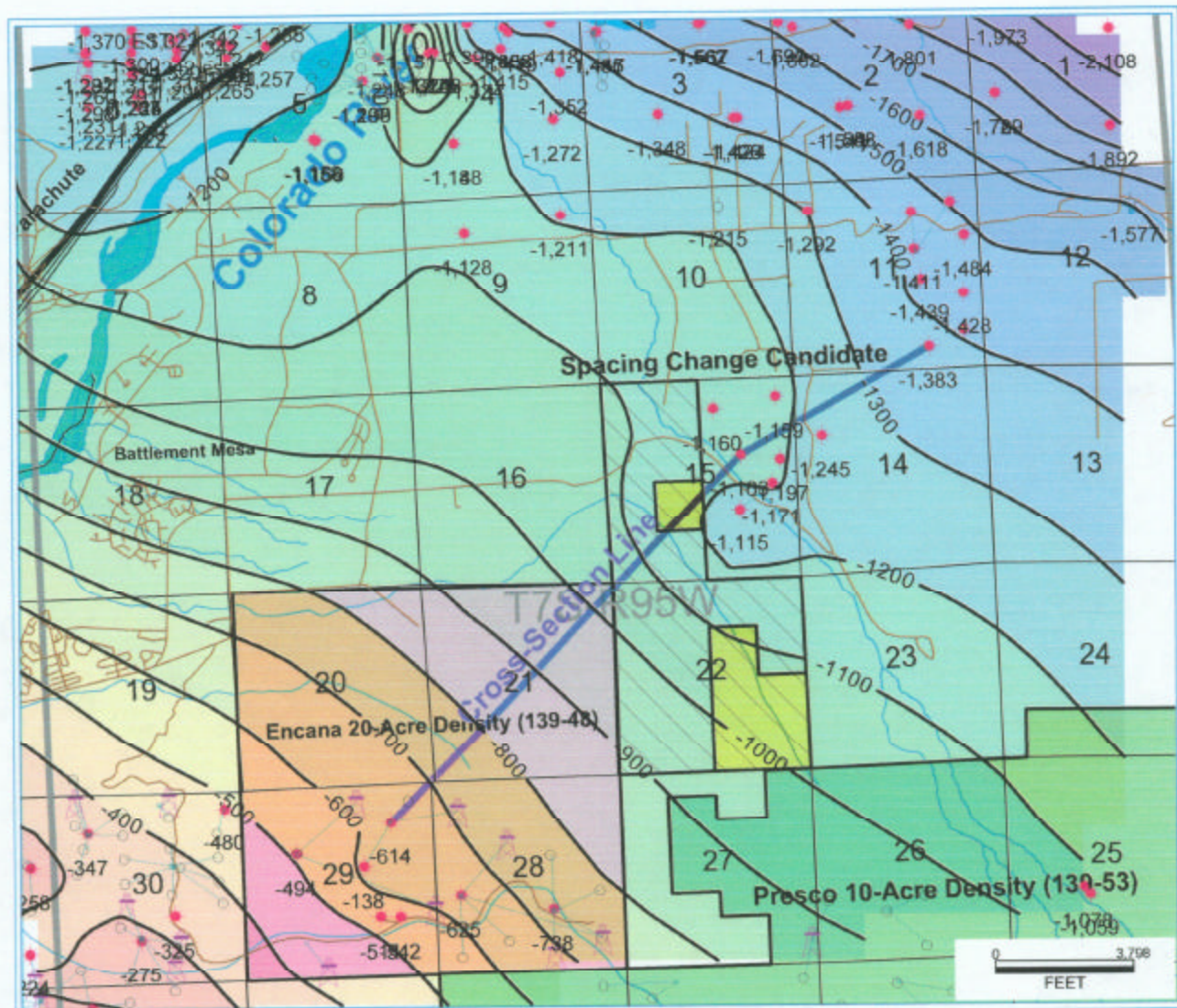


# EXHIBIT K

APPLICANT: APOLLO ENERGY CORPORATION  
GARFIELD COUNTY/UN-NAMED FIELD

CAUSE NO. 139  
DOCKET NO. 0603-SP-12

## STRUCTURE MAP



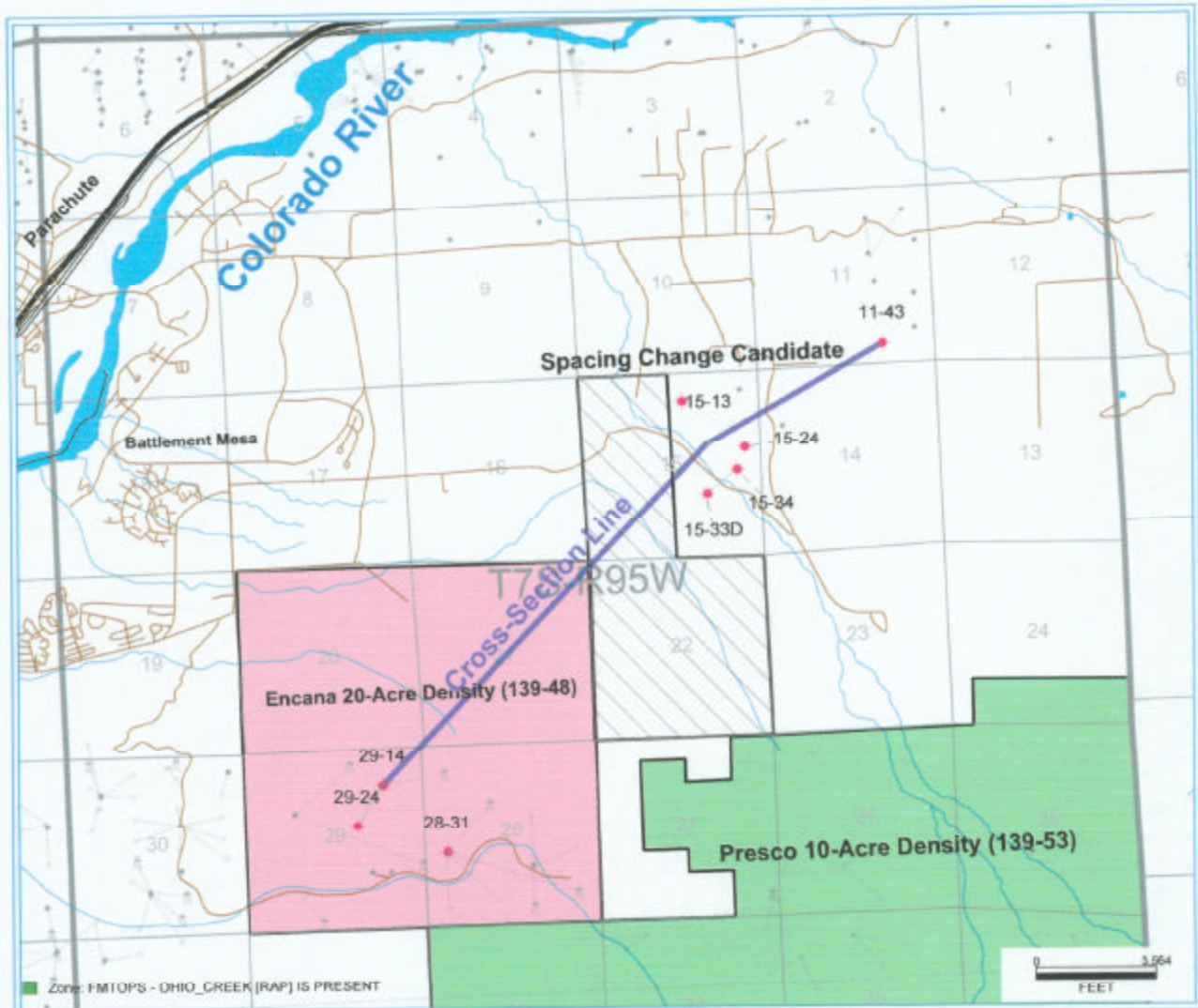


## EXHIBIT P

APPLICANT: APOLLO ENERGY CORPORATION  
GARFIELD COUNTY/UN-NAMED FIELD

CAUSE NO. 139  
DOCKET NO. 0603-SP-12

### WELL LOCATION MAP – PRODUCTION ANALYSIS

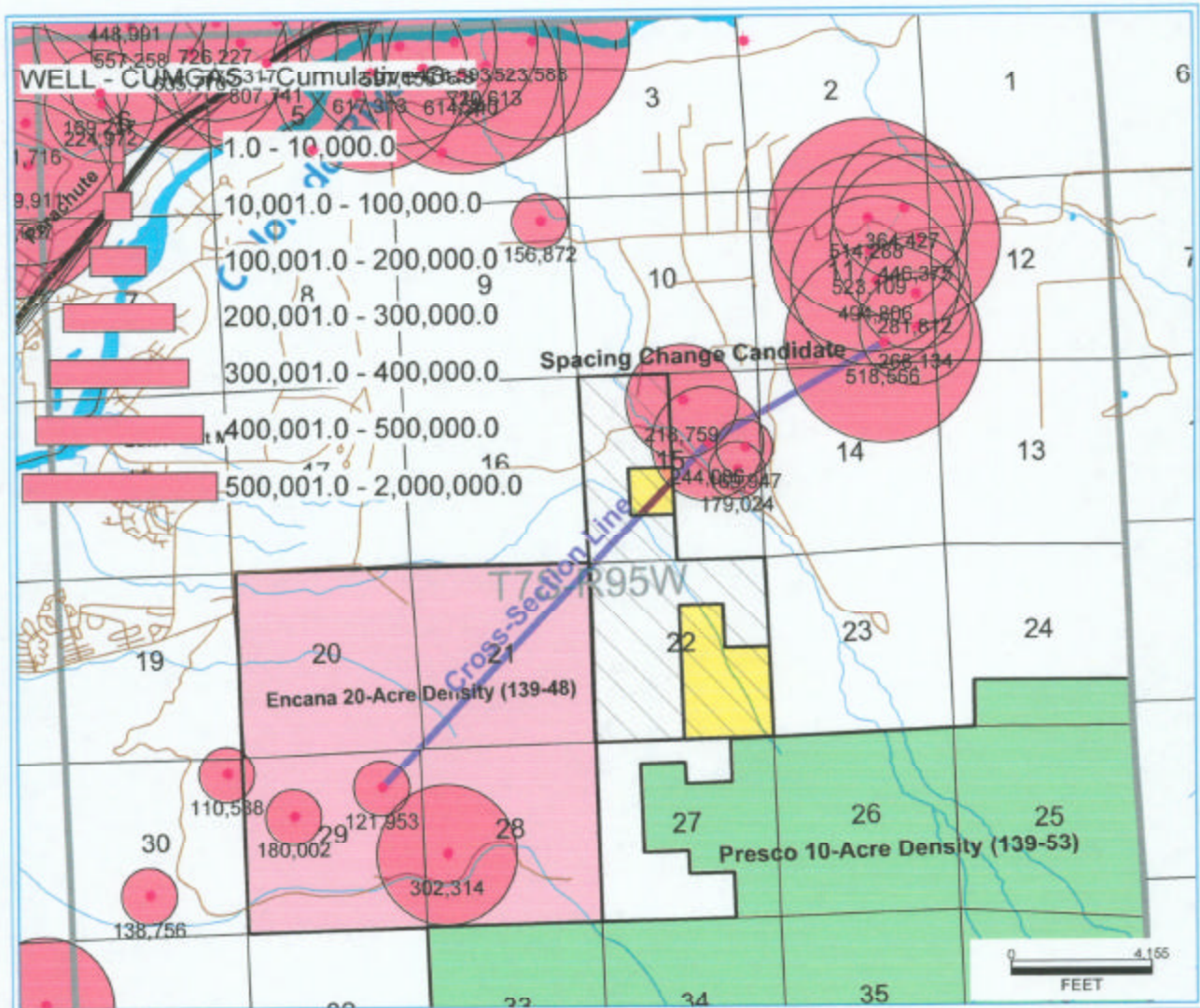


# EXHIBIT Q

APPLICANT: APOLLO ENERGY CORPORATION  
GARFIELD COUNTY/UN-NAMED FIELD

CAUSE NO. 139  
DOCKET NO. 0603-SP-12

## Furr Area Bubble Map of Cumulative Gas Production

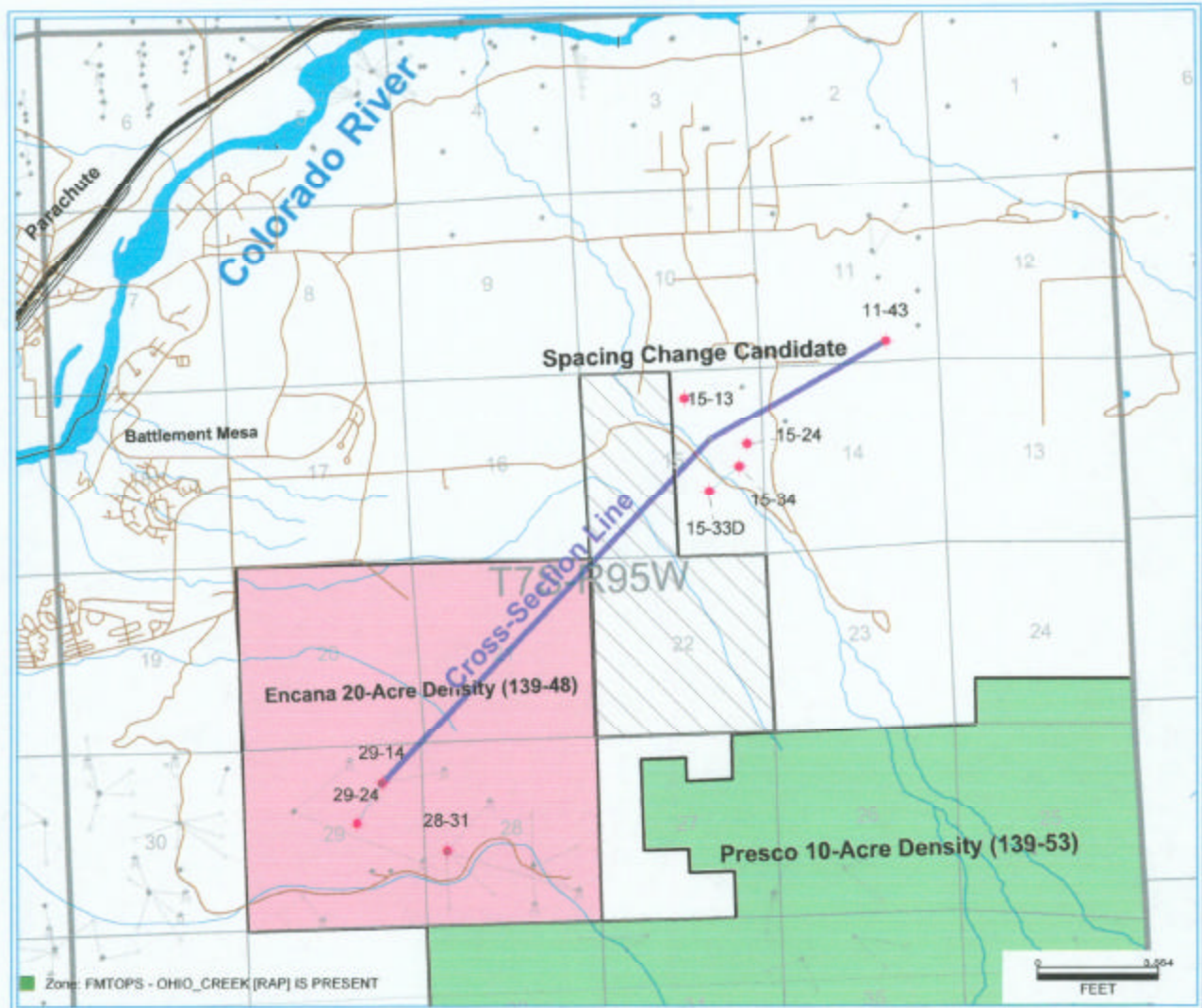




## EXHIBIT R

APPLICANT: APOLLO ENERGY CORPORATION  
GARFIELD COUNTY/UN-NAMED FIELD

CAUSE NO. 139  
DOCKET NO. 0603-SP-12

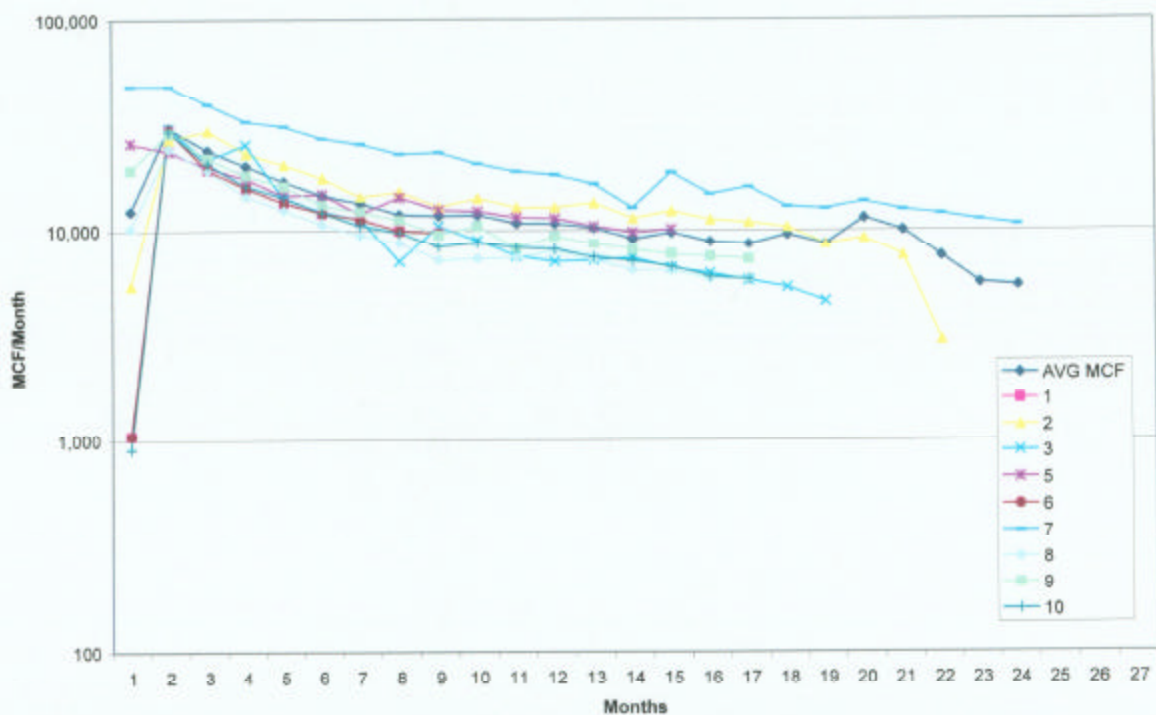


APPLICANT: APOLLO ENERGY CORPORATION  
GARFIELD COUNTY/UN-NAMED FIELD

### EXHIBIT T

CAUSE NO. 139  
DOCKET NO. 0603-SP-12

#### Furr Area Production





APPLICANT: APOLLO ENERGY CORPORATION  
GARFIELD COUNTY/UN-NAMED FIELD

EXHIBIT U

CAUSE NO. 139  
DOCKET NO. 0603-SP-12

