

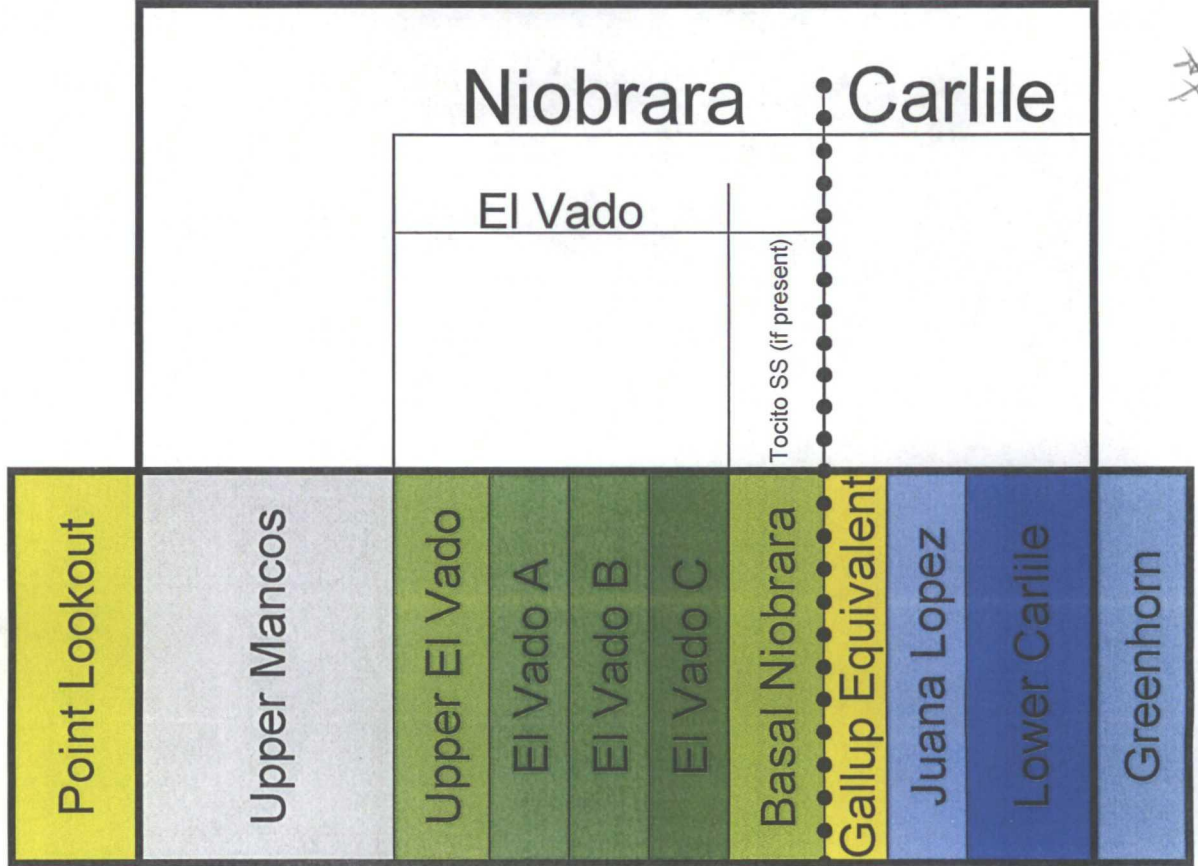
Before the Oil Conservation Division
Exhibit No. 3
Burlington Resources Oil & Gas Company LP
OCD CASE 14773
Hearing: December 15, 2011

Mancos Stratigraphic Terminology Summary

There is a hierarchy of terminology within the Mancos, similar to the Cliff House, Menefee, and Point Lookout within the Mesa Verde Group. The Mancos describes the entire section between the base of the Point Lookout and the top of the Greenhorn. This section is divided into the Upper Mancos (which has no further subdivisions), the Niobrara (which is subdivided into the El Vado and the Basal Niobrara), and the Carlile (which is subdivided into the Gallup equivalent, Juana Lopez, and Lower Carlile).

- Main Target:
 - El Vado (Upper, A, B, & C, variable quality)
- Possible Future Targets:
 - Juana Lopez
 - Lower Carlile
- Basal Niobrara
 - Represents the section where Tocito sands exist
 - The Basal Niobrara can be found with or without the presence of Tocito sands, though is generally not pay without the Tocito sands
- Gallup Equivalent
 - Rocks existing below the Base Niobrara unconformity (dotted line) and above the Juana Lopez
 - These are the only true Gallup age rocks in the basin, and are not sandstones. There is no Gallup sandstone in productive part of the basin.
 - Throughout most of the basin, the unconformity has completely eroded and removed the Gallup equivalent section.

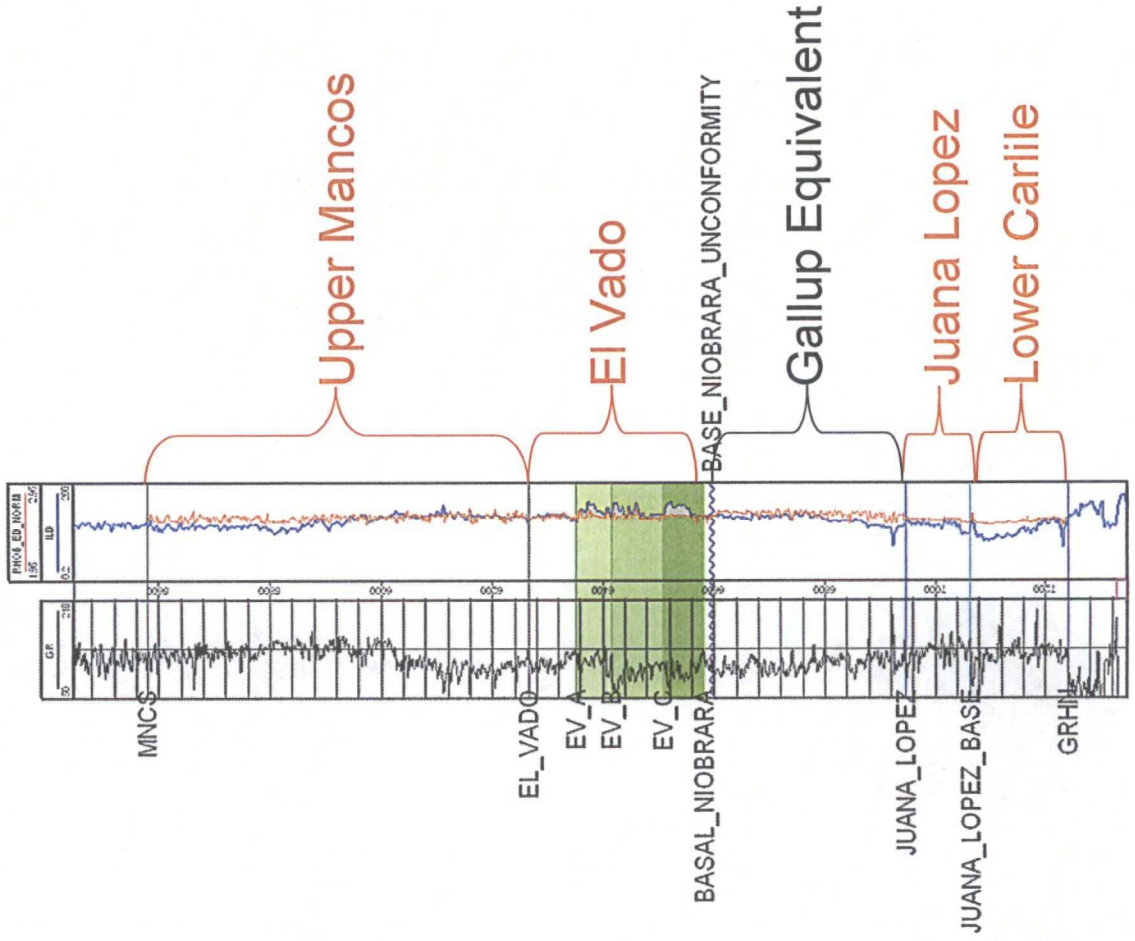
Mancos



Lindrith Type Log

Lindrith B Unit #28

3003923037



- At Lindrith, the Basal Niobrara section is very thin (between bottom of green highlight and purple wavy line), and the Gallup equivalent section is very thick
- Upper El Vado is not pay here, while El Vado A, B, & C are all pay

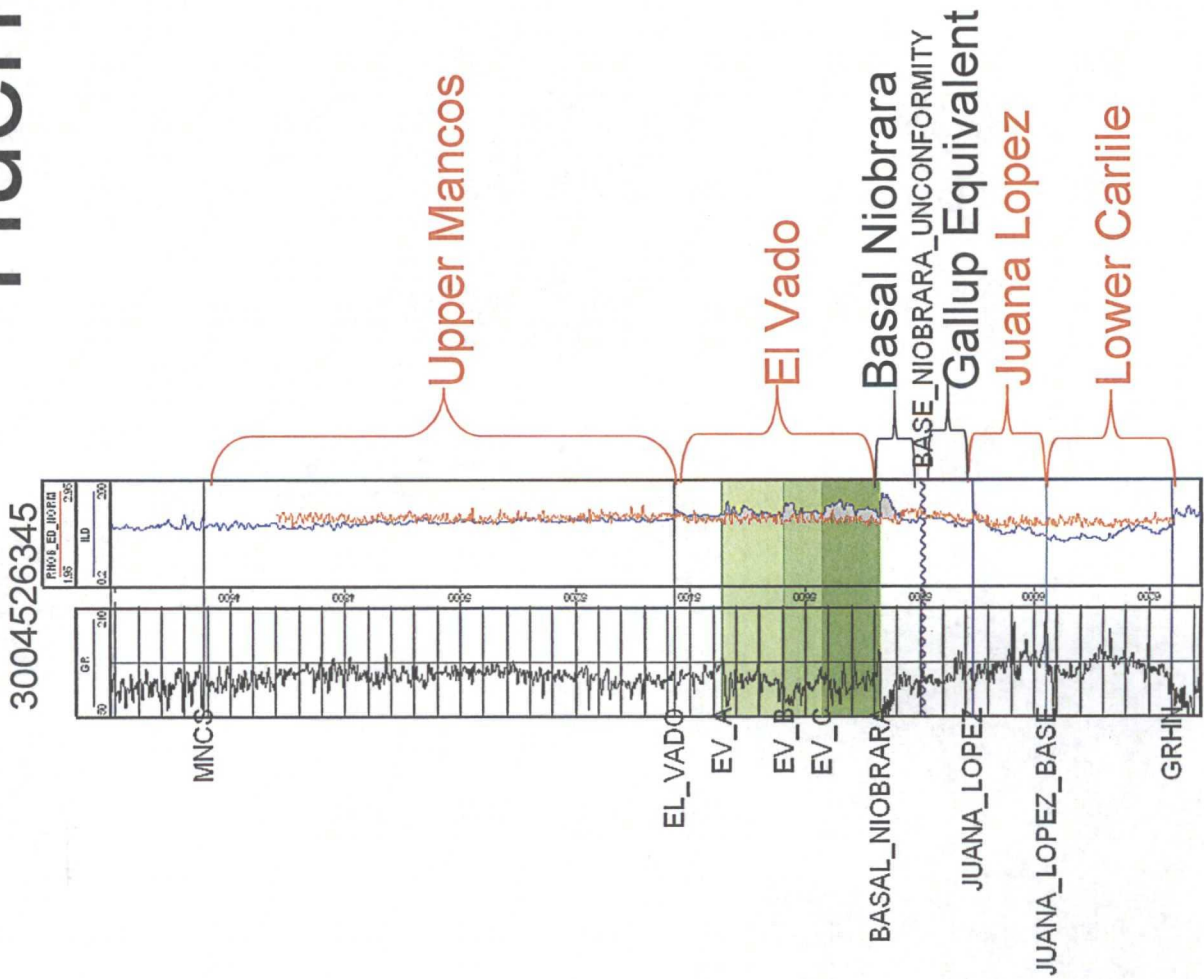
id well log

Grey crossover on log is pay

2. C

Huerfano Unit #106E

Huerfano Type Log



- At Huerfano, El Vado A, B, & C are all pay, as well as the Tocito sand within the Basal Niobrara Section
- The Gallup Equivalent has been eroded much more in Huerfano than Lindrith, resulting in a much thinner Gallup Equivalent and thicker Basal Niobrara

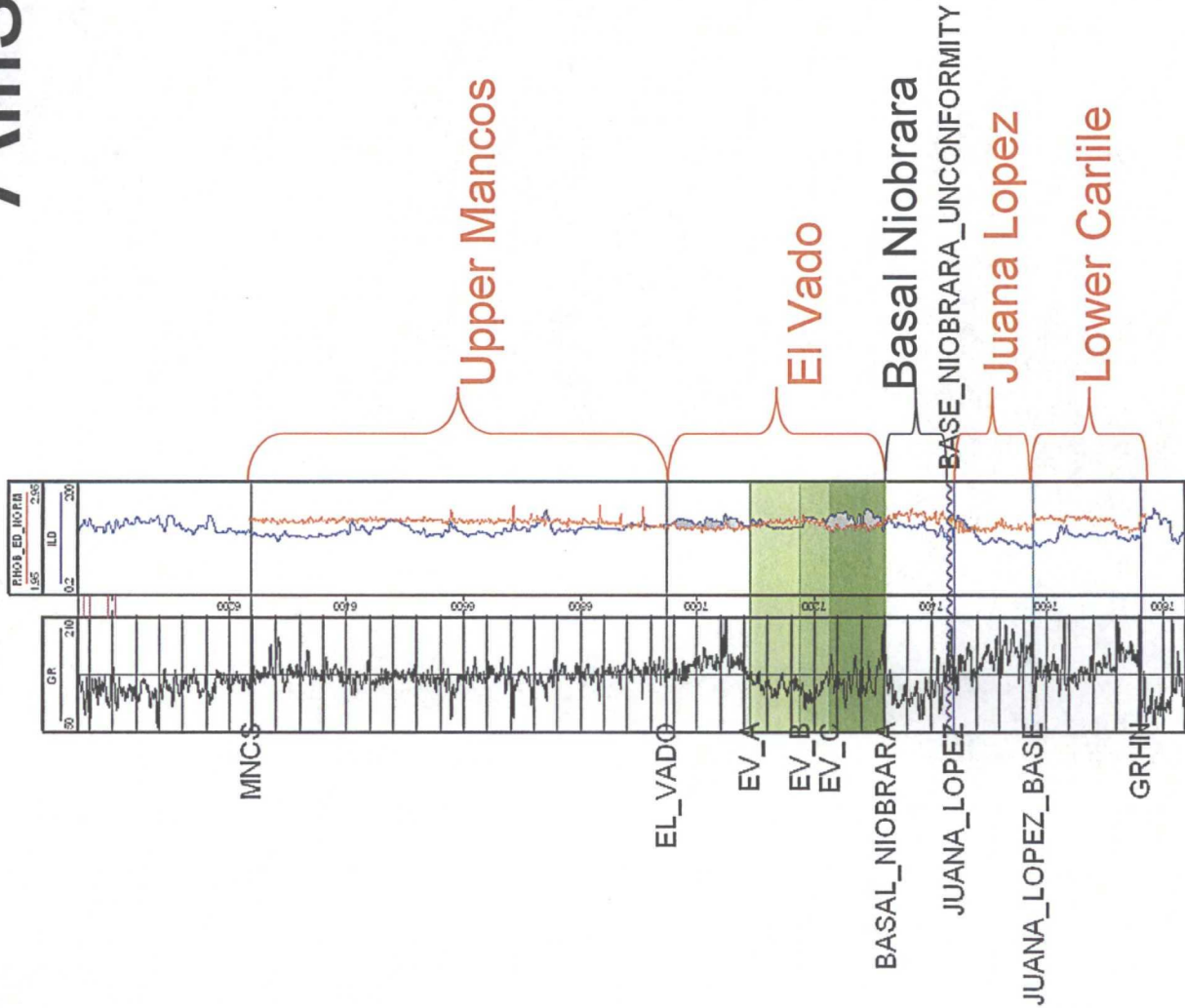
to SW

Grey crossover on log is pay

3-D

Allison Type Log

3004528957



- At Allison, the Base Niobrara unconformity has eroded completely through the Gallup Equivalent section and lies just above the Juana Lopez top. This is how the unconformity exists in most of the basin.
- Here, again, all of the currently identified pay is in the El Vado. Pay zones within the El Vado at Allison:
 - Upper El Vado
 - El Vado B
 - El Vado C
- Mancos stratigraphy in Allison Unit is a carbon copy of that at Rosa Unit

to the top of the

Mancos Terminology

- All of our current targets are El Vado, which specifically describes the silty section with high resistivity in the middle of the Mancos, and specifically excludes the Tocito sands (which are within the Basal Niobrara).
- There are possible pay zones within the Upper Mancos; however, these are secondary to the El Vado targets.
- Other Future targets include the Juana Lopez and the Lower Carlile, which are known to be hydrocarbon-bearing, but are difficult to stimulate.