

**STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION**

**IN THE MATTER OF THE HEARING CALLED  
BY THE OIL CONSERVATION DIVISION FOR  
THE PURPOSE OF CONSIDERING:**

**APPLICATION OF MEWBOURNE OIL COMPANY  
FOR A NON-STANDARD OIL SPACING AND  
PRORATION UNIT AND COMPULSORY POOLING,  
EDDY COUNTY, NEW MEXICO.**

Case No. 15,042

**AFFIDAVIT OF JASON LODGE**

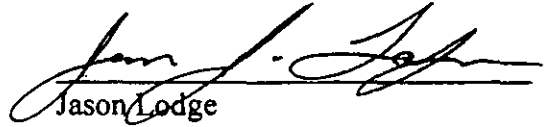
Jason Lodge, being duly sworn upon his oath, deposes and states:

1. I am over the age of 18, and have personal knowledge of the matters stated herein.
2. I am a geologist for Mewbourne Oil Company ("Mewbourne"), and I am familiar with the geological matters involved in this case
3. The geological plats attached hereto as Attachment A show the following:
  - (a) Page 1 is a structure map of the Yeso formation. The formation dips gently to the southeast. It also shows production from offset Yeso producers. The Peterson 7IL Fed Com #1H is highlighted in red and is an east-west 4500' lateral.
  - (b) Page 2 is an isopach of the Yeso formation. This map was created using a 6% neutron porosity cutoff, and shows that Yeso porosity has been developed throughout the area. Yeso formation porosity trends are somewhat difficult to map due to the heterogeneous nature in which the porosity is developed. This trait is a large reason why our development of this reservoir has been primarily horizontal. The isopach map also contains the line of an west-east cross section, which is page 3 of Attachment 1.
  - (c) Page 3 is a west-east cross section. The Yeso formation is a thick and tight dolomite. This exhibit shows the horizontal target of the Peterson 7IL Fed Com #1H and also shows that the Yeso is stratigraphically continuous across the well unit.
4. The project area is justified from a geologic standpoint.
5. Each quarter-quarter section in the project area will contribute more or less equally to production.

Oil Conservation Division  
Case No. 4  
Exhibit No. 4

6. Attachment B is the horizontal well plan. The well was completed in 20 stages with approximately 83,000 gallons of fluid per stage for a total fluid volume of approximately 1,660,000 gallons. The producing interval in the well is orthodox.

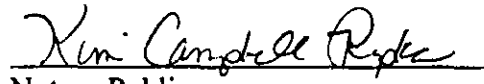
7. Mewbourne desires a laydown unit in order to follow the previously established trend of west-east laterals drilled in the same section. We also believe that laydown units are preferable due to frac orientations.

  
Jason Lodge

COUNTY OF SMITH       )  
                                  ) ss.  
STATE OF TEXAS       )

SUBSCRIBED AND SWORN TO before me this 17<sup>th</sup> day of September, 2013 by Jason Lodge.

My Commission Expires: 9-13-2015

  
Notary Public

