

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

APPLICATION OF LEGEND NATURAL GAS III, LP  
FOR A NOMENCLATURE ORDER EXPANDING THE  
NORTH HAY HOLLOW-BONE SPRING POOL, EDDY  
COUNTY, NEW MEXICO.

Case No. 15,182

AFFIDAVIT OF DANIEL EMMER

COUNTY OF HARRIS     )  
                              ) ss.  
STATE OF TEXAS        )

Daniel Emmer, 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 Legend Natural Gas III, LP ("Legend"), and I am familiar with the geological matters involved in this case
3. In this case Legend seeks to expand the North Hay Hollow-Bone Spring Pool (the "Pool") so that it includes the following acreage:

Township 25 South, Range 27 East, N.M.P.M.

Section 22: All  
Section 23: All  
Section 24: All  
Section 25: All  
Section 26: E/2

Township 25 South, Range 28 East, N.M.P.M.

Section 7: E/2  
Section 8: All  
Section 17: W/2  
Section 18: All  
Section 19: All  
Section 20: W/2  
Section 29: W/2  
Section 30: All

Oil Conservation Division  
Case No. 15182  
Exhibit No. 2

The pool currently covers only the NE/4 of Section 26, Township 25 South, Range 27 East, N.M.P.M., but has been expanded by the Division's Hobbs District Office due to additional wells drilled in the area of the original pool.

4. The geological plats attached hereto as Attachment 1 show the following:

(a) Page 1 is a structure map on top of the Second Bone Spring sand, which is the primary productive interval of horizontal wells in the Pool. It shows regional east dip with no structural elements impacting continuity of the reservoir across the proposed Pool expansion.

(b) Page 2 is a gross isopach of the Second Bone Spring sand. It shows that there are no major thickness changes or stratigraphic elements impacting continuity of the reservoir across the proposed Pool expansion.

5. I conclude from the plats that the Bone Spring formation is continuous across the Pool's boundaries, and that all acreage described in paragraph 3 above should be included in the Pool.

Daniel Emmer

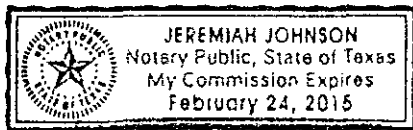
Daniel Emmer

SUBSCRIBED AND SWORN TO before me this 6<sup>th</sup> day of August, 2014 by Daniel Emmer.

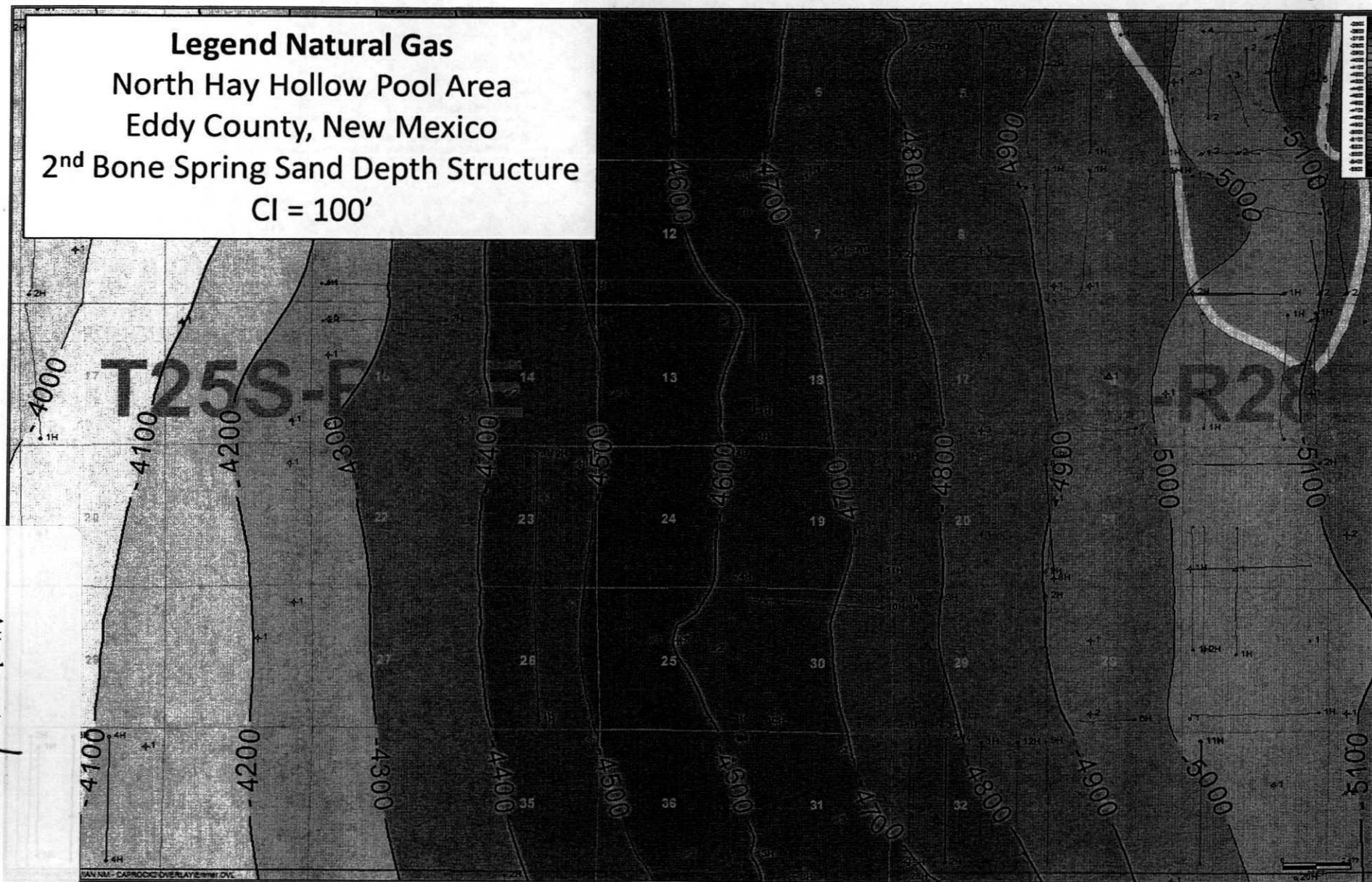
My Commission Expires:

2/24/2015

Jeremiah Johnson  
Notary Public



**Legend Natural Gas**  
 North Hay Hollow Pool Area  
 Eddy County, New Mexico  
 2<sup>nd</sup> Bone Spring Sand Depth Structure  
 CI = 100'



**Legend Natural Gas**  
 North Hay Hollow Pool Area  
 Eddy County, New Mexico  
 2<sup>nd</sup> Bone Spring Sand Gross Isopach  
 CI = 25'

