

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

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

Case No. 20671

VERIFIED STATEMENT OF CHARLES CROSBY

COUNTY OF MIDLAND                    )  
  ) ss.  
STATE OF TEXAS                        )

Charles Crosby, being duly sworn upon his oath, deposes and states:

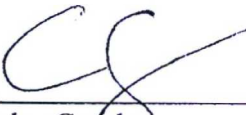
1. I am over the age of 18, and have personal knowledge of the matters stated herein.
2. I am a geologist for Mewbourne Oil Company ("Mewbourne"), and I am familiar with the geological matters involved in this case. I have been qualified by the Division as an expert petroleum geologist.
3. The following geological plats are attached hereto:
  - (a) Attachment A is a structure map of the Top of the Wolfcamp formation. It shows that structure dips gently to the East-Southeast. It also shows a line of cross-section.
  - (b) Attachment B is a gross sand isopach of the Lower 3<sup>rd</sup> Bone Spring Sand, the test zone for the Bourbon Red 11-12 B3DA State Com 1H. It shows that the sand across the well unit has a uniform thickness of approximately 150-190 feet.
  - (c) Attachment C is a west-east cross section. The well logs on the cross-section give a representative sample of the 3<sup>rd</sup> Bone Spring Sand formation in this area. The target zone for the well is the Lower 3<sup>rd</sup> Bone Spring Sand, and that zone is continuous across the well unit.
4. I conclude from the maps that:
  - (a) The horizontal spacing unit is justified from a geologic standpoint.
  - (b) Each quarter-quarter section in the unit will contribute more or less equally to production.

EXHIBIT 2

(c) There is no faulting or other geologic impediment on the area which will affect the drilling of the subject well.

5. Attachment D contains information from other 3<sup>rd</sup> Bone Spring Sand wells drilled in this area. Production for wells with similar completions and similar time online seems to show a preference for laydown orientation, and the completed wells in the area (recent completions) are apparently commercial.

6. Attachment E is the Survey Calculation Report. The producing interval of the proposed well will be orthodox.

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Charles Crosby

VERIFICATION

STATE OF TEXAS                                 )  
  ) ss.  
COUNTY OF MIDLAND                         )

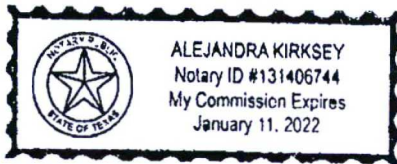
Charles Crosby, being duly sworn upon his oath, deposes and states that: He is a geologist for Mewbourne Oil Company; he is authorized to make this verification on its behalf; he has read the foregoing statement, and knows the contents thereof; and the same is true and correct to the best of his knowledge, information, and belief.

  
\_\_\_\_\_  
Charles Crosby

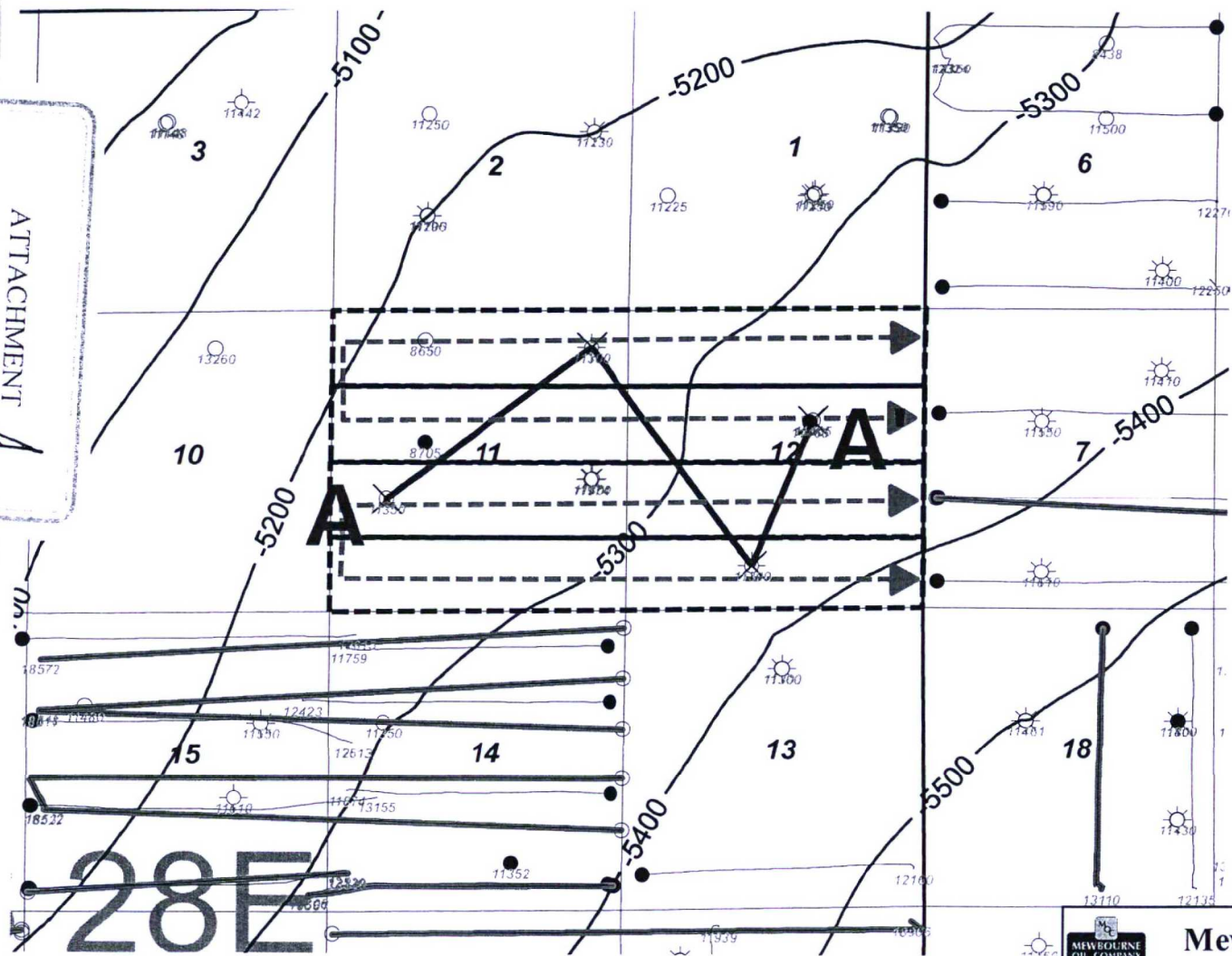
SUBSCRIBED AND SWORN TO before me this 5<sup>th</sup> day of August, 2019 by Charles Crosby.

My Commission Expires: January 11, 2022

  
\_\_\_\_\_  
Notary Public




ATTACHMENT  
A



Horizontal Activity Color Code

3rd Bone Spring Sand



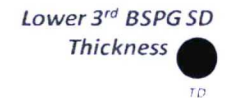

**Mewbourne Oil Company**

Bourbon Red 11-12 Wells  
Horizontal Activity Map  
Top Wolfcamp Structure (C.I. 100')  
Wells TD 8000' filtered out

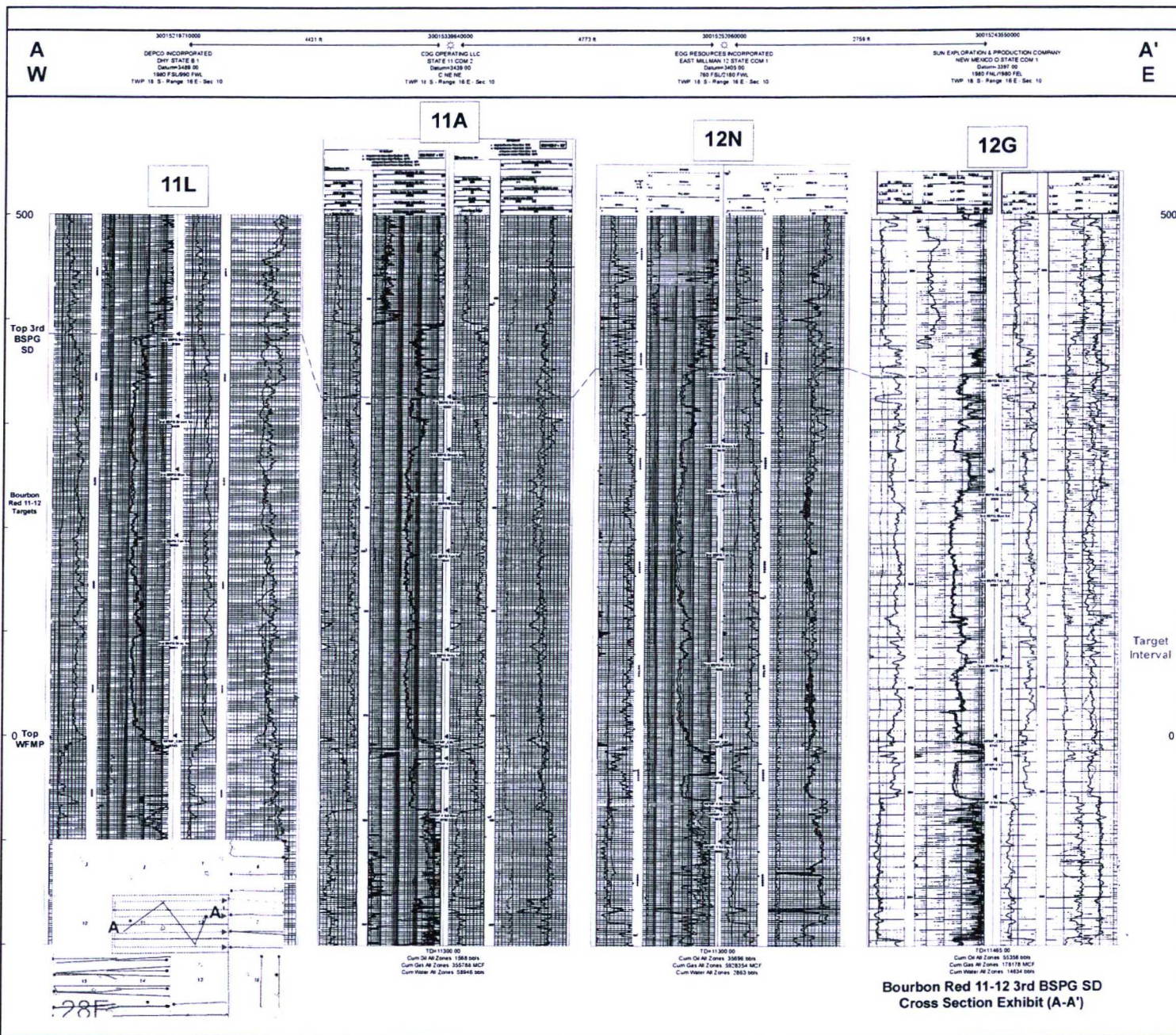
8/5/17	Eddy County	New Mexico
		Geol: C. Crosby



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ATTACHMENT C



**Bourbon Red Area 3rd BSPG SD Production/Activity Table**

Well Name	Operator	API	Location	Completion Date	Cum Oil (Mbo)	Cum Gas (Bcf)	Cum Water (Mbw)	NS/EW	Production Zone
Phantom 18 State 2H	COG	30015382580000	18O-19S-29E	6/21/2011	64.3	0.25	119.1	NS	3rd BSPG SD
Palmillo 14-15 State 301H	Apache	30015440400000	15P-19S-28E	9/8/2017	183.9	0.63	368.8	EW	3rd BSPG SD
Turkey Track 8-7 State 33H	OXY	30015441590000	9L-19S-29E	Pending				EW	3rd BSPG SD
Palmillo 14-15 State 32H	Apache	30015453410000	15L-19S-28E	Pending				EW	3rd BSPG SD
Palmillo 14-15 State 304H	Apache	30015453420000	15E-19S-28E	Pending				EW	3rd BSPG SD
Palmillo 14-15 State Com 305H	Apache	30015453430000	15E-19S-28E	Pending				EW	3rd BSPG SD
Palmillo 14-15 State 303H	Apache	30015453800000	15L-19S-28E	Pending				EW	3rd BSPG SD
Palmillo 14-15 State 307H	Apache	30015453810000	14M-19S-28E	Pending				EW	3rd BSPG SD
Palmillo 14-15 State 306H	Apache	30015453820000	15D-19S-28E	Pending				EW	3rd BSPG SD
Parkchester 24-23 B3AD State Com 2H	Mewbourne	30015460620000	24A-19S-28E	Pending				EW	3rd BSPG SD

ATTACHMENT

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