

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

APPLICATION OF MEWBOURNE OIL COMPANY
FOR COMPULSORY POOLING, LEA COUNTY,
NEW MEXICO.

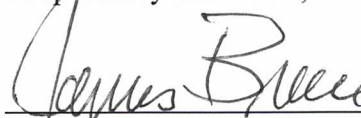
Case No. 22836

NOTICE OF FILING SUPPLEMENTAL EXHIBIT ADDITIONAL EXHIBIT

Attached for filing is Exhibit 3 submitted to the Division in related Case No. 22835, which is the geologic information pertaining to both cases.

In addition, supplemental notices of filing in both cases reference Eddy County, while the cases actually pertain to lands in Lea County.

Respectfully submitted,



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Attorney for Mewbourne Oil Company

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APPLICATION OF MEWBOURNE OIL COMPANY
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Case No. 22836

SELF-AFFIRMED STATEMENT OF JORDAN CARRELL

Jordan Carrell 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 these cases. 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 on the base of the 2nd Bone Spring Sand. It shows that structure dips to the southwest. It also shows Bone Spring wells in the area, and a line of cross-section.
 - (b) Attachment B is a 2nd Bone Spring Sand Gross Thickness Map.
 - (c) Attachment C is a cross section of the 2nd Bone Spring Sand showing the target zones in the North Wilson Deep Unit Well Nos. 6H and 7H. The 6H well will target the lower 2nd Bone Spring Sand, and the 7H well will target the upper 2nd Second Bone Spring Sand.

The well logs on the cross-section give a representative sample of the 2nd Bone Spring Sand in this area. The sand is continuous and uniformly thick across the well units.

4. I conclude from the maps that:
 - (a) The horizontal spacing units are justified from a geologic standpoint.
 - (b) The target zones are continuous and of relatively uniform thickness across the well units.

EXHIBIT 3

(c) Each quarter-quarter section in the well units will contribute more or less equally to production from the target zone.

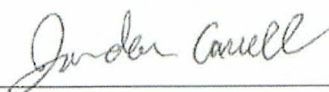
(d) There is no faulting or other geologic impediment in the area which will affect drilling of the subject wells.

5. Attachment D contains production information from other Second Bone Spring Sand wells drilled in this area. The Second Bone Spring wells in this area are all standup wells.

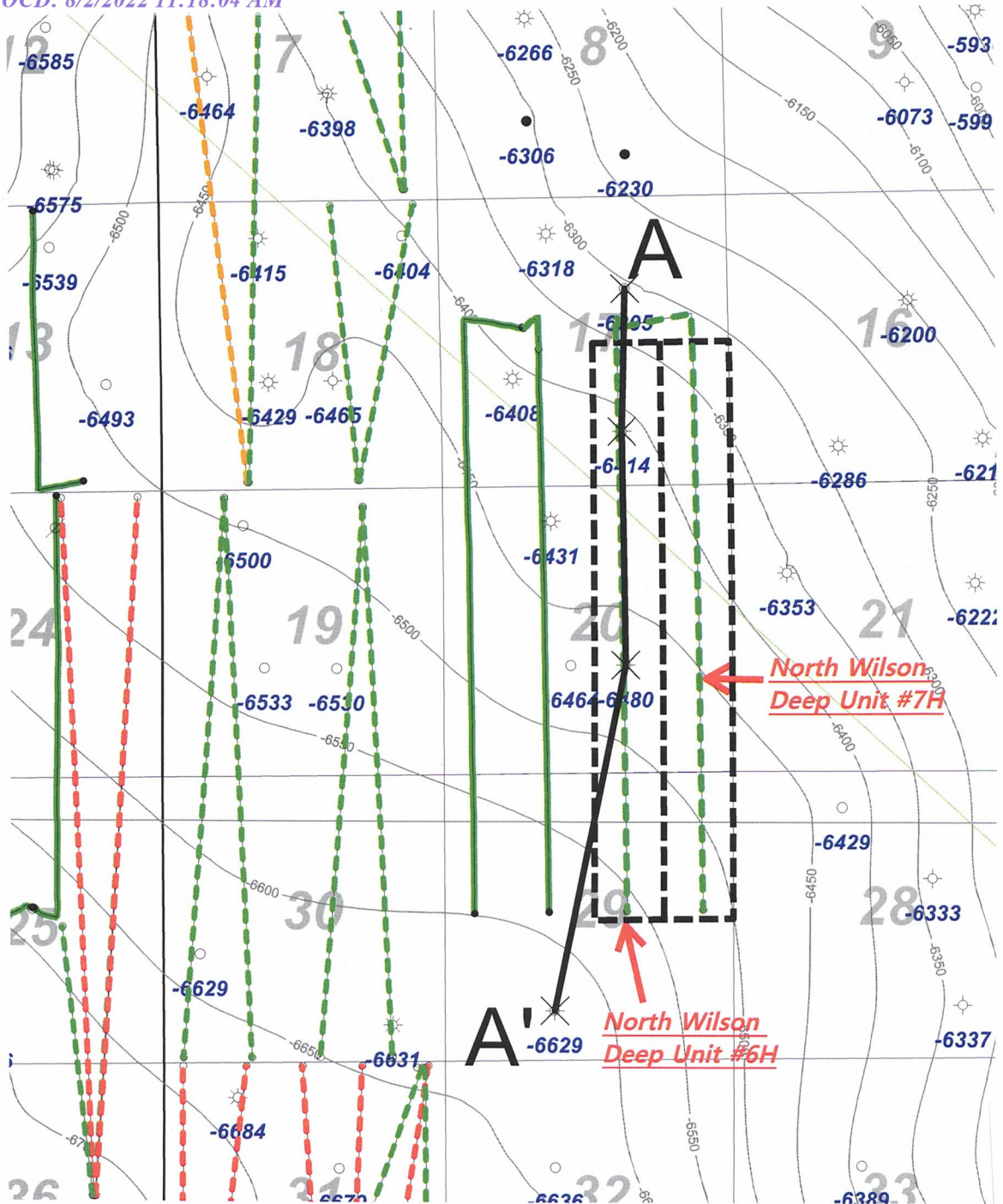
6. Attachment E contains the horizontal drilling plans for the proposed wells. The producing intervals of the wells will be orthodox.

7. I understand that this Self-Affirmed Statement will be used as written testimony in these cases. I affirm that my testimony in paragraphs 1 through 6 above is true and correct and is made under penalty of perjury under the laws of the State of New Mexico. My testimony is made as of the date handwritten next to my signature below.

Date: 5-26-22



Jordan Carrell



Wells deeper than 7000'



TD

2nd BSPG Base
(sub sea ft)

BSPG Horizontal Color Code

- 1st BSPG Sand Permit
- 2nd BSPG Sand Permit
- 2nd BSPG Sand Well
- 3rd BSPG Sand Permit



1 inch = 2300 feet

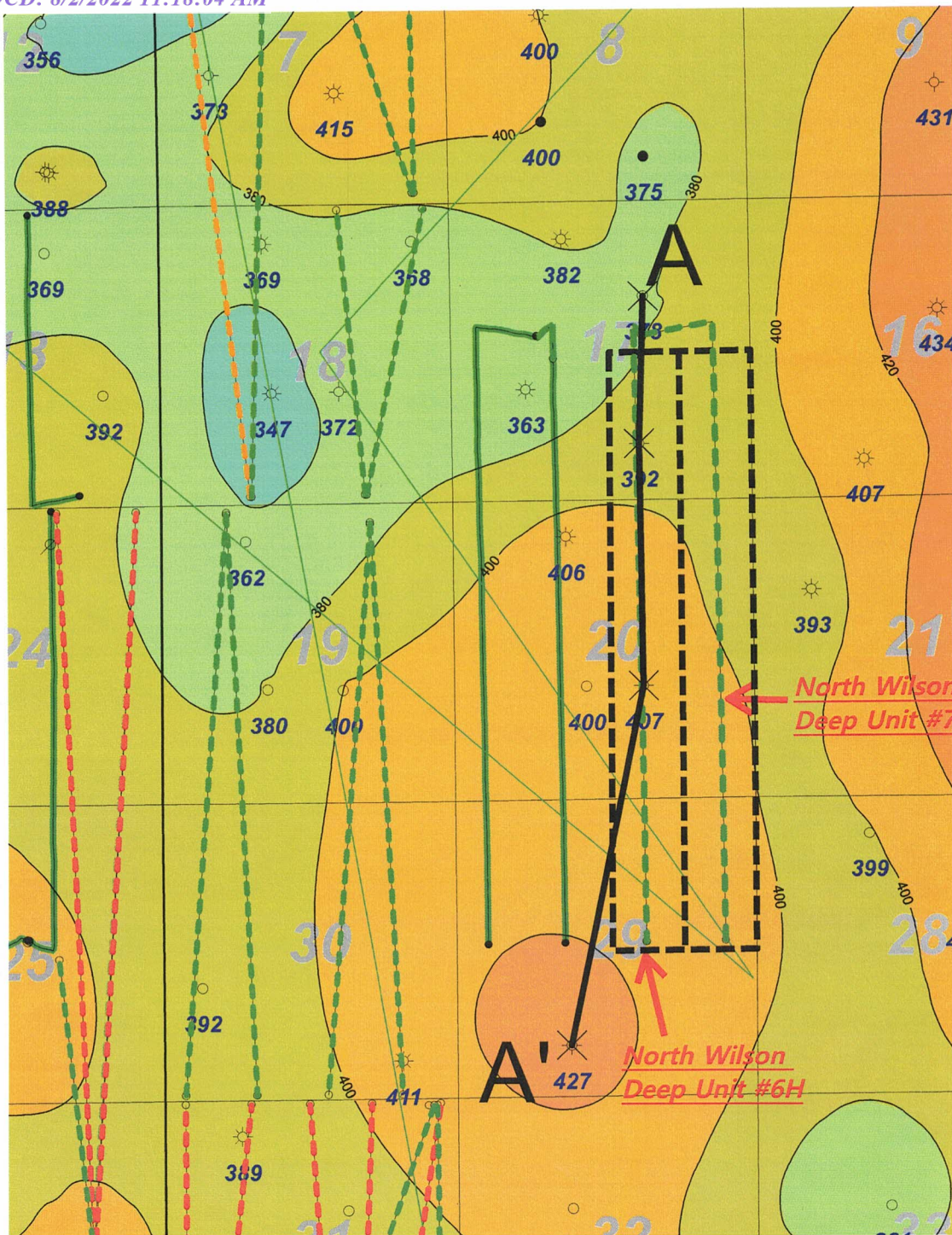
N



A

ATTACHMENT

Mewbourne Oil Company		
North Wilson Deep Unit #6H & #7H Base of 2 nd BSPG Structure Map C.I. = 50'		
5/25/22	Lea County	New Mexico
Scale: 1" = 2300'		



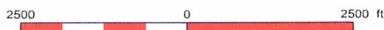
Wells deeper than 7000'



2nd BSPG Sd gross thickness (ft)

BSPG Horizontal Color Code

- - - - - 1st BSPG Sand Permit
- - - - - 2nd BSPG Sand Permit
- 2nd BSPG Sand Well
- - - - - 3rd BSPG Sand Permit

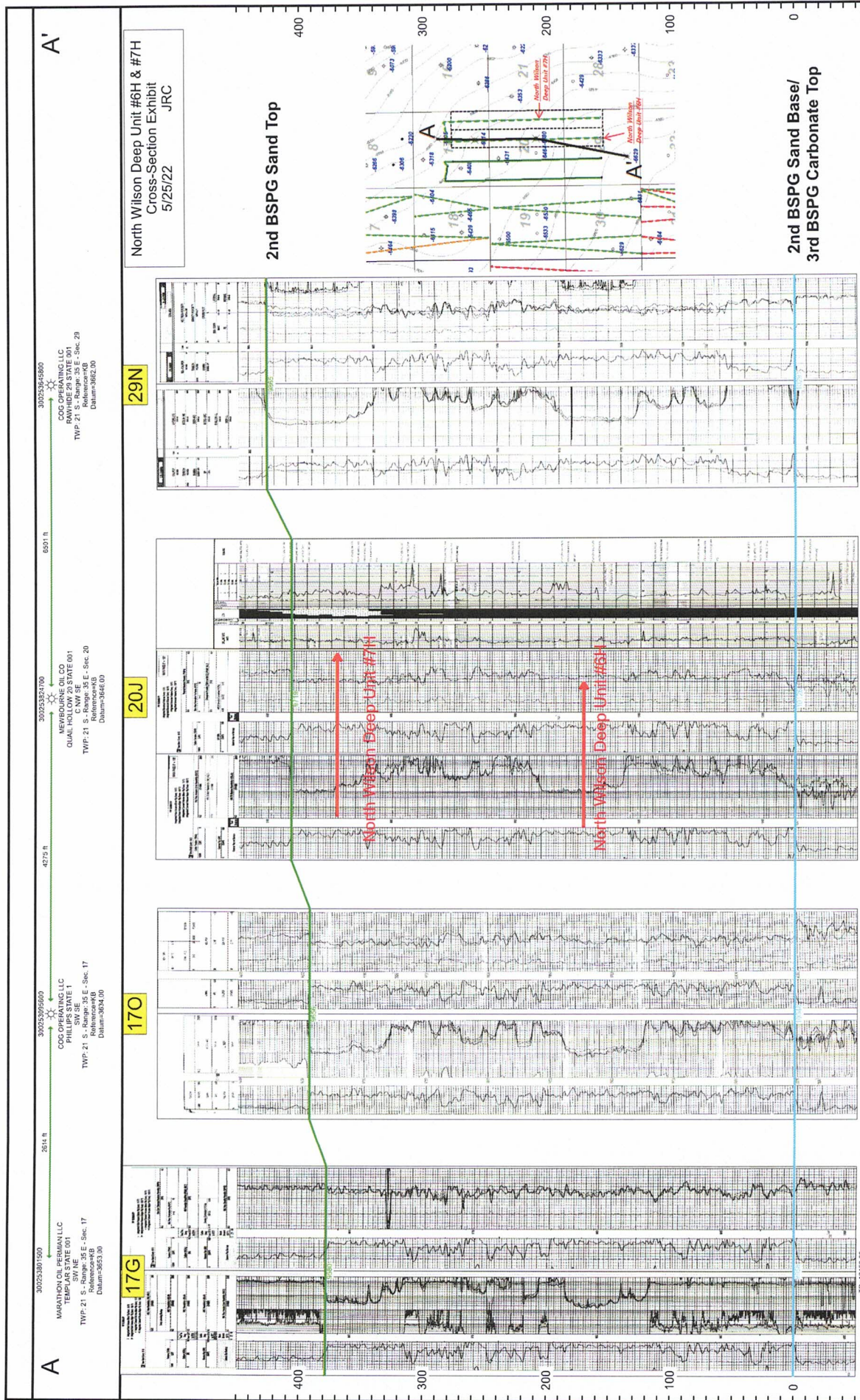


1 inch = 2200 feet



ATTACHMENT B

MOC Mewbourne Oil Company		
North Wilson Deep Unit #6H & #7H 2nd BSPG Sand Gross Thickness Isopach Map C.I. = 20'		
5/25/22	Lea County	New Mexico
Scale: 1" = 2200'		



ATTACHMENT C

2nd Bone Spring Sand Horizontal Production Data Table

Well Name	Operator	API	Location	Comp Date	Cum Oil (MBO)	Cum Gas (BCF)	Cum Water (MBW)	NS/IEW	HZ Target
DOLLY VARDEN 25/24 B2GB ST COM 1H	MEWBOURNE OIL CO	300254540200	25G24B-21S/34E	12/1/2020	287	0.6	278	NS	Lower 2nd BSPG Sd
DOLLY VARDEN 25/24 B2FC ST COM 1H	MEWBOURNE OIL CO	300254540100	25F24C-21S/34E	12/1/2020	260	0.7	260	NS	Lower 2nd BSPG Sd
DOLLY VARDEN 25/24 B2ED ST COM 1H	MEWBOURNE OIL CO	300254540000	25E24D-21S/34E	11/23/2019	360	0.7	428	NS	Lower 2nd BSPG Sd
BRUCE KEPLINGER 13 STATE COM 123H	MATADOR PRODUCTION CO	300254543400	13OB-21S/34E	4/12/2019	87	0.1	123	NS	Upper 2nd BSPG Sd
CAST AWAY 6 B2BW ST COM UNIT 1H	MEWBOURNE OIL CO	300254505900	6BW-21S/35E	3/13/2019	118	0.1	179	NS	Lower 2nd BSPG Sd
CARNE ASADA STATE COM 501H	CENTENNIAL RESOURCES	300254602100	7G6B-22S/35E	10/31/2019	324	0.6	339	NS	Lower 2nd BSPG Sd
CARNE ASADA STATE COM 502H	CENTENNIAL RESOURCES	300254633100	7G6B-22S/35E	10/31/2019	294	0.7	335	NS	Upper 2nd BSPG Sd
SOURSOP 5 STATE COM 2H	CENTENNIAL RESOURCES	300254258300	5NC-22S/35E	11/1/2015	193	0.3	223	NS	Lower 2nd BSPG Sd
NORTH WILSON DEEP UNIT 3H	MEWBOURNE OIL CO	300254942200	17L29E-21S/35E	3/1/2022	17	0.0	74	NS	Lower 2nd BSPG Sd
NORTH WILSON DEEP UNIT 4H	MEWBOURNE OIL CO	300254942300	17K29F-21S/35E	3/1/2022	10	0.0	64	NS	Upper 2nd BSPG Sd

ATTACHMENT 

