

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

APPLICATION OF RIDGE RUNNER RESOURCES
OPERATING, LLC FOR COMPULSORY POOLING,
NON-STANDARD SPACING AND PRORATION UNIT,
EDDY COUNTY, NEW MEXICO.

CASE NO. 20922

AFFIDAVIT

STATE OF TEXAS)
) ss.
COUNTY OF MIDLAND)

Michael Burke, being duly sworn, deposes and states:

1. I am over the age of 18, I am a Geologist for Ridge Runner Resources Operating, LLC, and have personal knowledge of the matters stated herein. I have been qualified by the Oil Conservation Division ("Division") as an expert petroleum geologist.

2. **Exhibit 1** is a structure map of the Top of the Wolfcamp (which is the Base of 3rd Bone Spring). The contour interval used in this exhibit is 50 feet. This exhibit shows that the formation dips to the east. (Exhibit 3 "Cross Section A – A'" is labeled here)

3. **Exhibit 2** is a Gross Interval Isopach of the 3rd Bone Spring. The isopach map shows approximate thickness of the Wolfcamp XY to be 450 feet in the vicinity of Sections 32 and 33. (Exhibit 3 "Cross Section A – A'" is labeled here)

4. **Exhibit 3** is a stratigraphic cross section hung on the top of the 3rd Bone Spring. This identifies 2 vertical wells in the vicinity of the proposed wells, shown by a line of cross-section running from A to A'. The well logs on the cross-section give a representative sample of the 3rd Bone Spring in the area. The target zone is identified by the words "Producing Zone" and the shaded area across the cross section, along with red arrows.



5. **Exhibit 4** is a structure map of the Top of the Wolfcamp (which is the Base of 3rd Bone Spring). The contour interval used in this exhibit is 50 feet. This exhibit shows that the formation dips to the east. (Exhibit 6 "Cross Section A – A'" is labeled here)

6. **Exhibit 5** is a Gross Interval Isopach of the Wolfcamp XY. The isopach map shows approximate thickness of the Wolfcamp XY to be 150 feet in the vicinity of Sections 32 and 33. (Exhibit 6 "Cross Section A – A'" is labeled here)

7. **Exhibit 6** is a stratigraphic cross section hung on the top of the 3rd Bone Spring. This identifies 2 vertical wells in the vicinity of the proposed wells, shown by a line of cross-section running from A to A'. The well logs on the cross-section give a representative sample of the Wolfcamp XY in the area. The target zone is identified by the words "Producing Zone" and the shaded area across the cross section, along with red arrows.

8. I conclude from Exhibits 1 through 6 with respect to both the 3rd Bone Spring and Wolfcamp XY that:

- a. The horizontal spacing units are justified from a geologic standpoint.
- b. There are no structural impediments or faulting that will interfere with horizontal development.
- c. Each quarter section encountered by each of the wells in the proposed unit will contribute more or less equally to production.

9.. In my opinion, the granting of Ridge Runner Resources Operating, LLC's application is in the interests of conservation and the prevention of waste.


MICHAEL BURKE

SUBSCRIBED AND SWORN to before me this 10th day of December, 2019 by
MICHAEL BURKE on behalf of Ridge Runner Resources

Cydnee Phipps
Notary Public

My Commission Expires:
06/07/2022

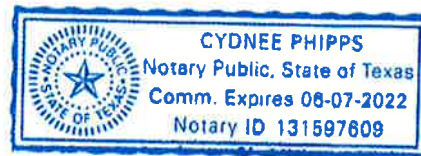


EXHIBIT 1

Affidavit of

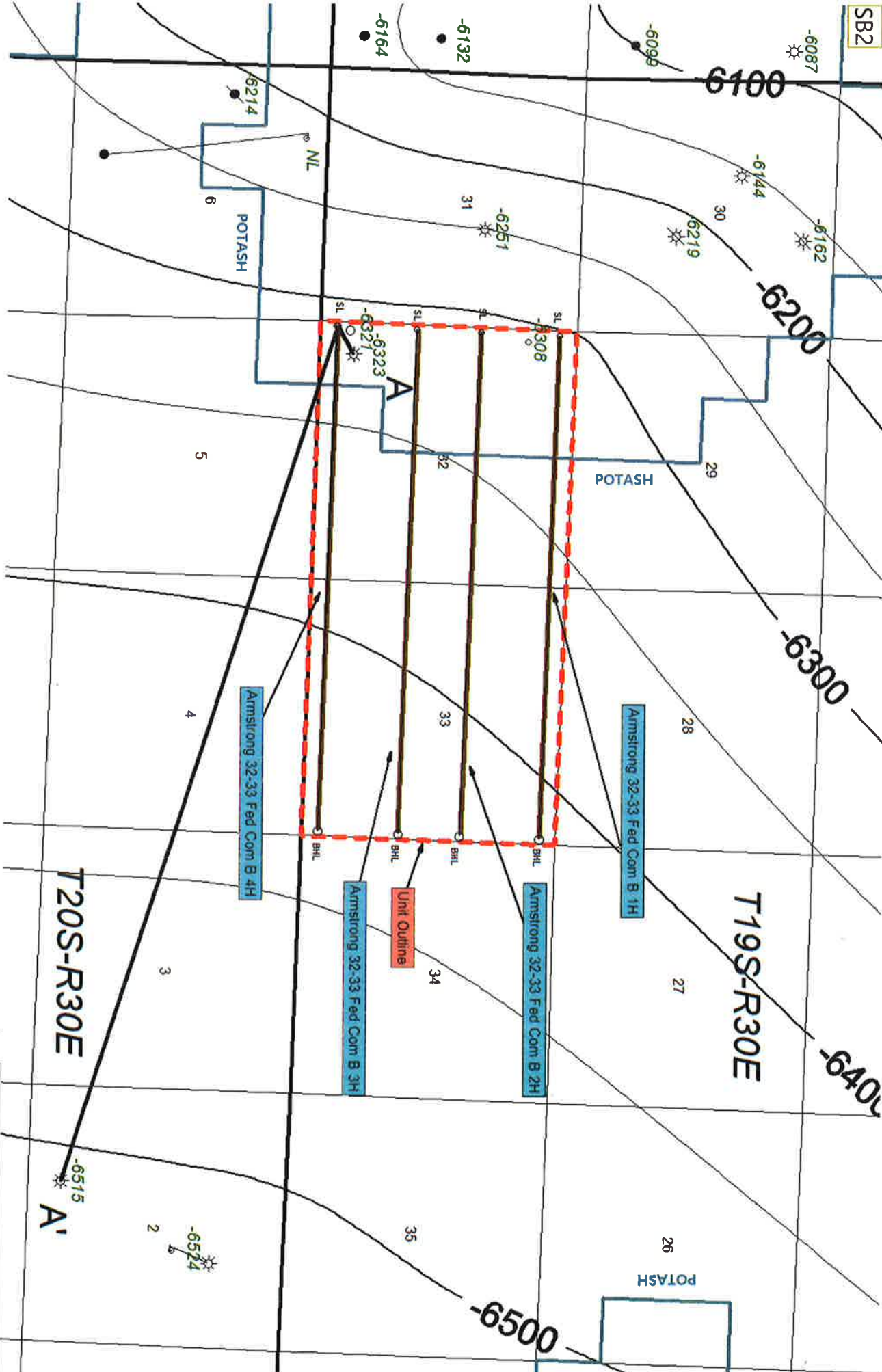
Michael Burke

OCD Case 20922

Ridge Runner Resources Operating, LLC

December 11, 2019

SB2



RR RIDGE RUNNER
R I D G E R U N N E R

Northern Delaware Basin
Top of Wolfcamp Structure
Eddy Co. NM

Author:	Case:	Date:
mburke	1998	8 December, 2019
Walc:	Scale:	C.T.:
TVD = 9000'	1" = 2100'	50'

EXHIBIT 2

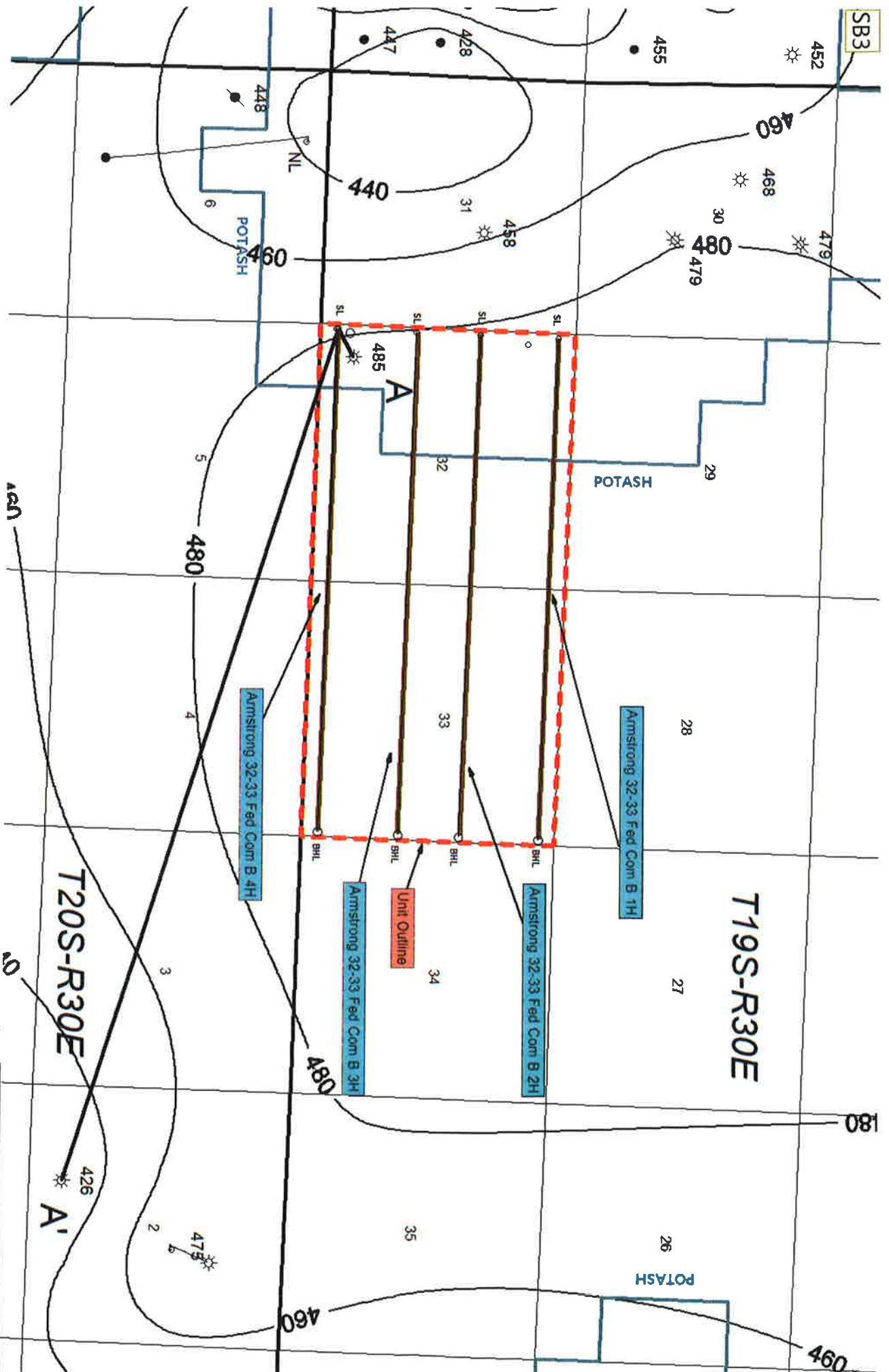
Affidavit of

Michael Burke

OCD Case 20922

Ridge Runner Resources Operating, LLC

December 11, 2019





RIDGE RUNNER

RESIDUARY

Author: Web: YTD: 2000*	Case: Trans: Scam: Y-2700*
Author: Web: YTD: 2000*	Case: Trans: Scam: Y-2700*

EXHIBIT 3

Affidavit of

Michael Burke

OCD Case 20922

Ridge Runner Resources Operating, LLC

December 11, 2019

Stratigraphic X-Section A - A' : Datum; T/Tbgs West - East; Eddy Co., NM

SB4

A

Parent Well ID=3001534068

671 ft

Parent Well ID=N/A

18382 ft

Parent Well ID=3001533397

A'

MARBOB ENERGY CORP
All ID=COG OPER LLC
STRAIGHT JOE STATE 1
3 S - Range: 30 E - Sec

RIDGE RUNNER RESOURC
ARMSTRONG 32-33 FED COM B 4H
330 FSL & 100 FWL
TWP: 19 S - Range: 30 E - Sec. 32

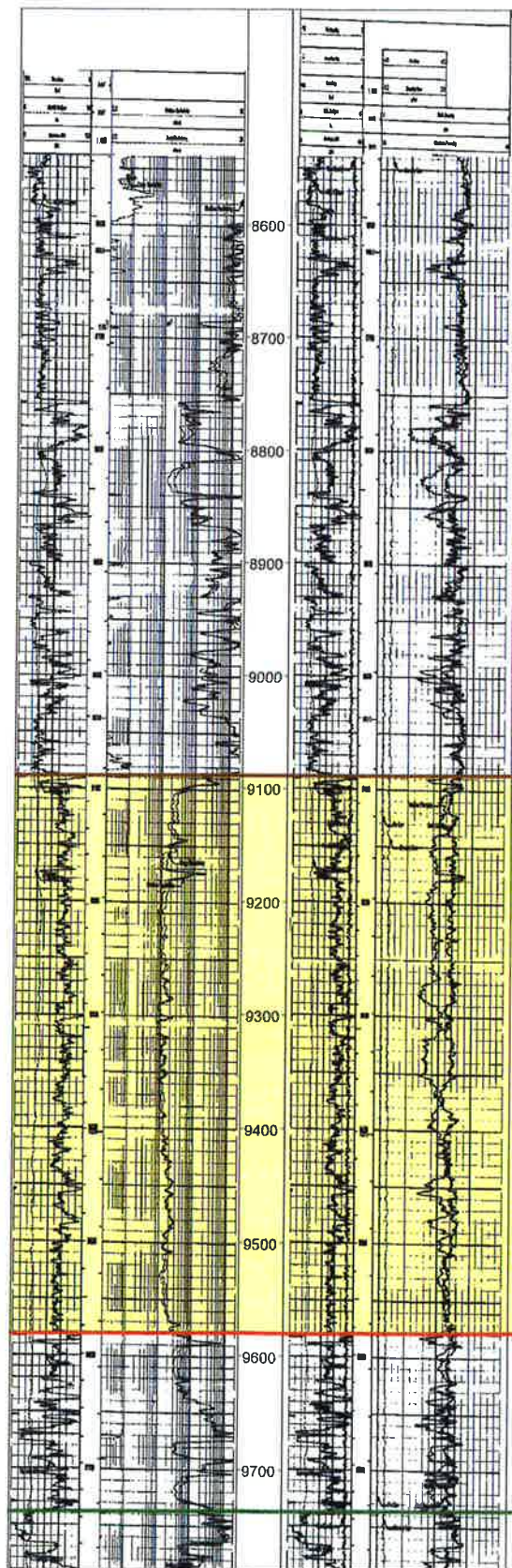
MARBOB ENERGY CORP
All ID=COG OPER LLC
"RETTY VIEW FEE"
S - Range: 30 E -

Resistivity

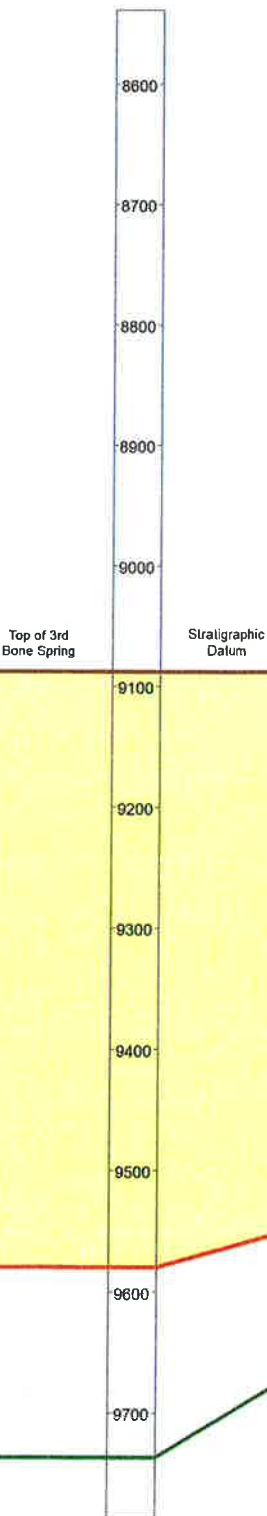
Porosity

Resistivity

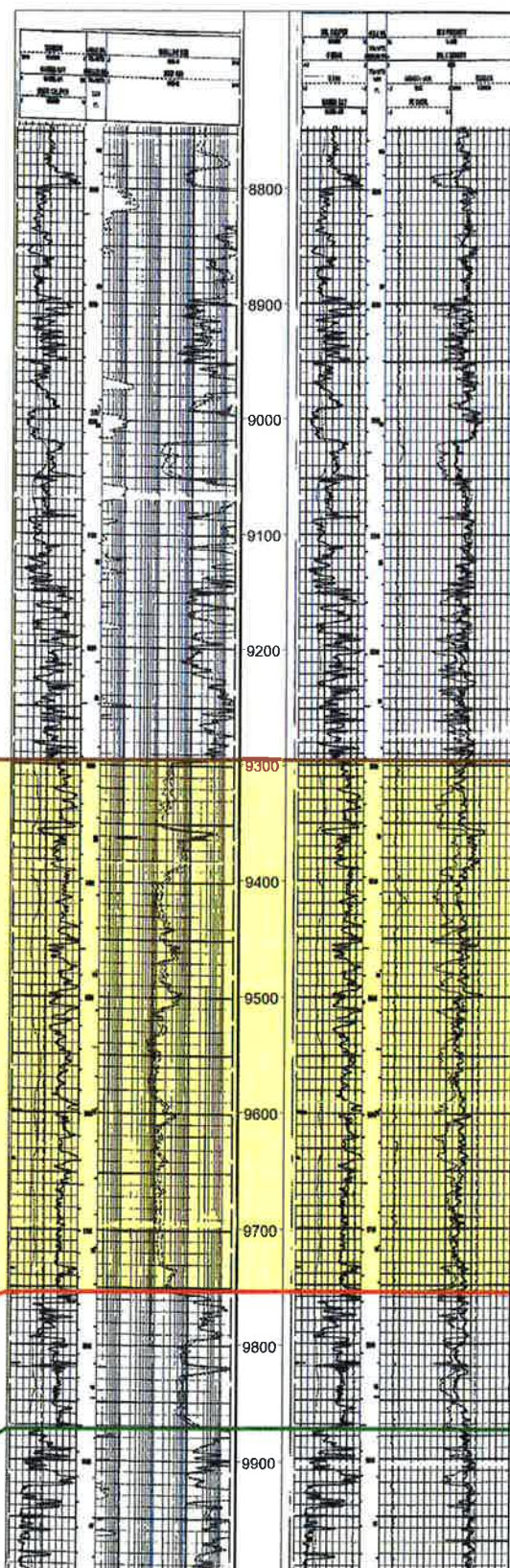
Porosity



TD=12180.00
Comp Date=7/25/2007



TD=19645.00



TD=12350.00
Comp Date=11/13/2004

EXHIBIT 4

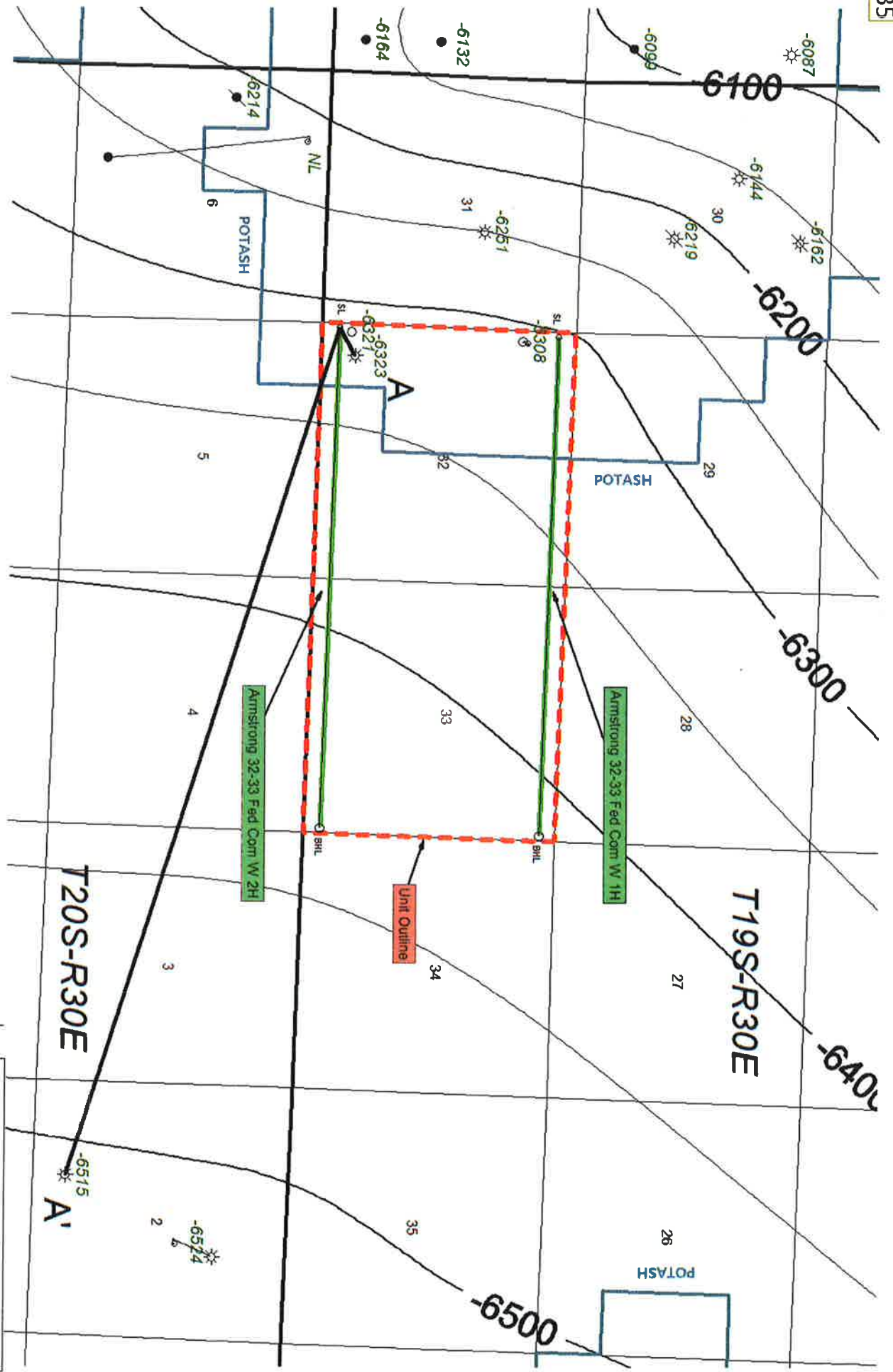
Affidavit of

Michael Burke

OCD Case 20922

Ridge Runner Resources Operating, LLC

December 11, 2019



**RIDGE RUNNER**
RESOURCES

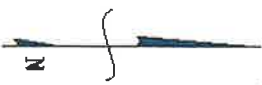
Northern Delaware Basin
Top of Wolfcamp Structure
Eddy Co. NM

Author:	Case:	Date:
Wells:	Wells:	7 Dec 2019
1:10000	1:10000	90°

EXHIBIT 5

**Affidavit of
Michael Burke
OCD Case 20922
Ridge Runner Resources Operating, LLC
December 11, 2019**

SB6



RIDGE RUNNER
R E S U R C E S

Northern Delaware Basin
WolfcampXY Gross Interval Isopach
Eddy Co. NM

Author:	mbw	Date:	7 December 2019
Wells:	Scale:	Cut:	20'
170 > 3000'			

EXHIBIT 6

**Affidavit of
Michael Burke
OCD Case 20922
Ridge Runner Resources Operating, LLC
December 11, 2019**

Stratigraphic X-Section A - A' : Datum; T/Tbgs West - East; Eddy Co., NM

A

Parent Well ID=3001534068

655 ft

Parent Well ID=N/A

18390 ft

Parent Well ID=3001533397

A'

Resistivity

Porosity

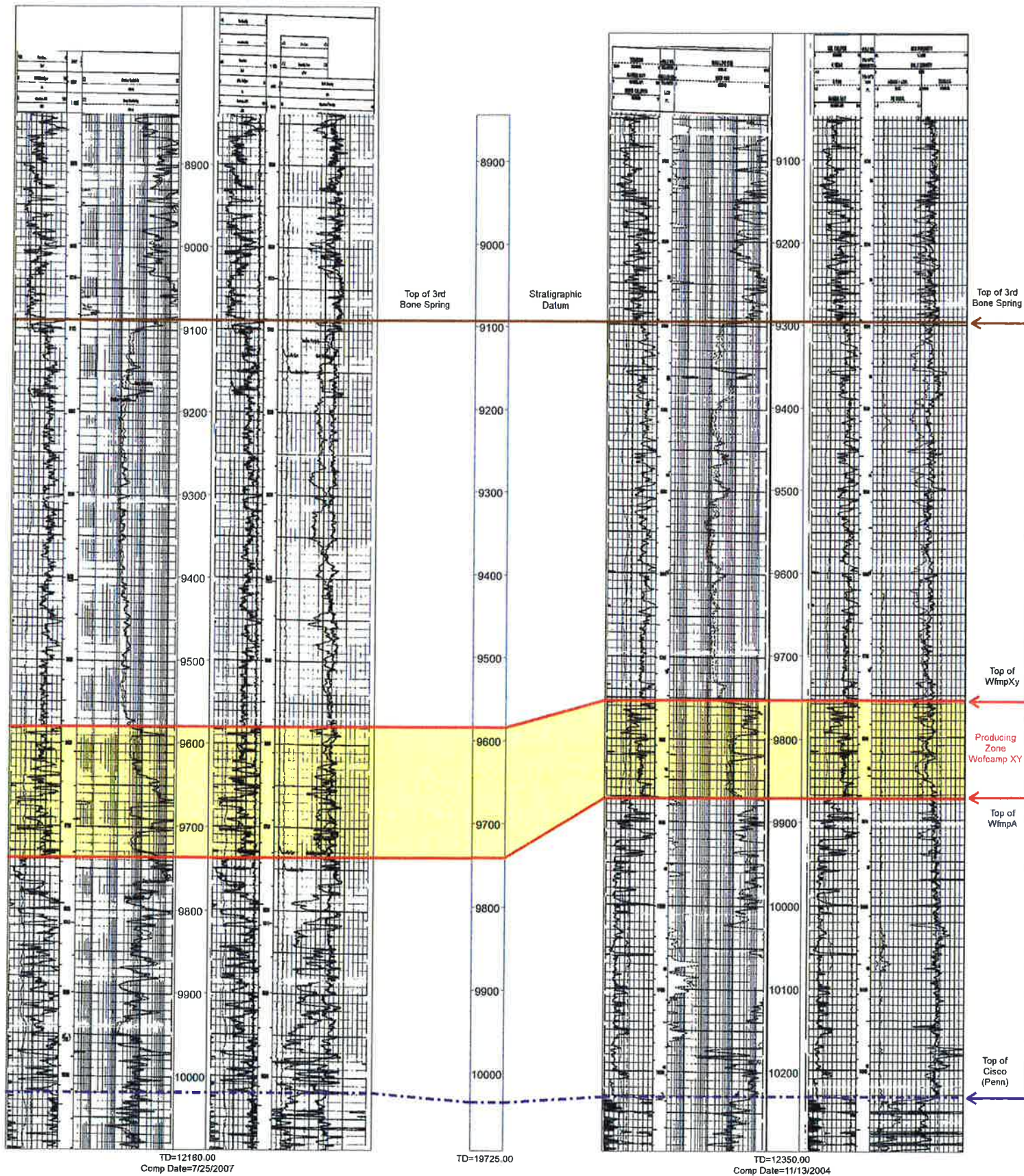
Resistivity

Porosity

MARBOB ENERGY CORP
A/I ID=COG OPER LLC
STRAIGHT JOE STATE 1
S - Range: 30 E - S

RIDGE RUNNER RESOURC
ARMSTRONG 32-33 FED COM W 2H
360 FSL & 100 FWL
TWP: 19 S - Range: 30 E - Sec. 32

MARBOB ENERGY CORP
A/I ID=COG OPER LLC
PRETTY VIEW FEE 1
0 S - Range: 30 E -



TD=12180.00
Comp Date=7/25/2007

TD=19725.00

TD=12350.00
Comp Date=11/13/2004