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

APPLICATION OF AVANT OPERATING, LLC FOR COMPULSORY POOLING AND OVERLAPPING SPACING UNIT, LEA COUNTY, NEW MEXICO.

CASE NO. 22895

APPLICATION OF AVANT OPERATING, LLC FOR COMPULSORY POOLING, LEA COUNTY, NEW MEXICO.

CASE NO. 22896

NOTICE OF SUPPLEMENTAL EXHIBITS

In accordance with the Division's request at the August 18, 2022 hearing in this matter, Avant Operating, LLC is providing the following supplemental exhibits: (1) Self-Affirmed Statement of Braden Harris (Exhibit D); and (2) Supplemental Self-Affirmed Statement of Shelly Albrecht (Exhibit E).

Respectfully submitted,

HINKLE SHANOR, LLP

/s/ Dana S. Hardy

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jmclean@hinklelawfirm.com

Counsel for Avant Operating, LLC

CERTIFICATE OF SERVICE

I hereby certify that a true and correct copy of the foregoing pleading was sent by electronic mail to the following counsel of record on this 30th day of August, 2022.

Jennifer Bradfute Marathon Oil Permian LLC 990 Town & Country Blvd. Houston, TX 77024 Phone: (505) 264-8740 jbradfute@marathonoil.com

/s/ Dana S. Hardy

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SELF-AFFIRMED STATEMENT OF BRADEN HARRIS

- 1. I am the Senior Vice President of Operations at Avant Operating, LLC ("Avant"). I am over 18 years of age and have personal knowledge of the facts herein. I have previously testified before the New Mexico Oil Conservation Division ("Division"), and my qualifications as an expert in petroleum engineering were accepted as a matter of record.
- 2. At the August 18, 2022 hearing, the Division requested that Avant provide information regarding the well design for the Cutbow 36 1 Fed Com wells to address concerns regarding the Capitan Reef and the Potash Area. Accordingly, copies of the wellbore diagrams for the Cutbow 36 1 Fed Com #601H, #602H, and #603H wells are attached as Exhibit D-1. The same casing design will be used for the Cutbow 36 1 Fed Com #604H, #605H, and #606H wells.
- 3. In accordance with Bureau of Land Management requirements, the wellbore design includes four strings of casing to avoid impacts to potash. Potash and salt are isolated with the 1st intermediate casing, and the Capitan Reef is isolated by the 2nd intermediate casing.
- 4. Avant's AFE's for the wells have been previously submitted as Exhibit A-4 in each case, and they account for the additional strings of casing.

Avant Operating, LLC Case Nos. 22895 and 22896 Exhibit D 5. I understand this Self-Affirmed Statement will be used as written testimony in this case. I affirm that my testimony 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 nest to my signature below.

Braden Harris

08-29-2022

Date

REGULATORY: BLM

PERMIT#

AFE:

Cutbow 36 1 Federal Com 603H

Bone Springs

Lea County, NM

RIG:

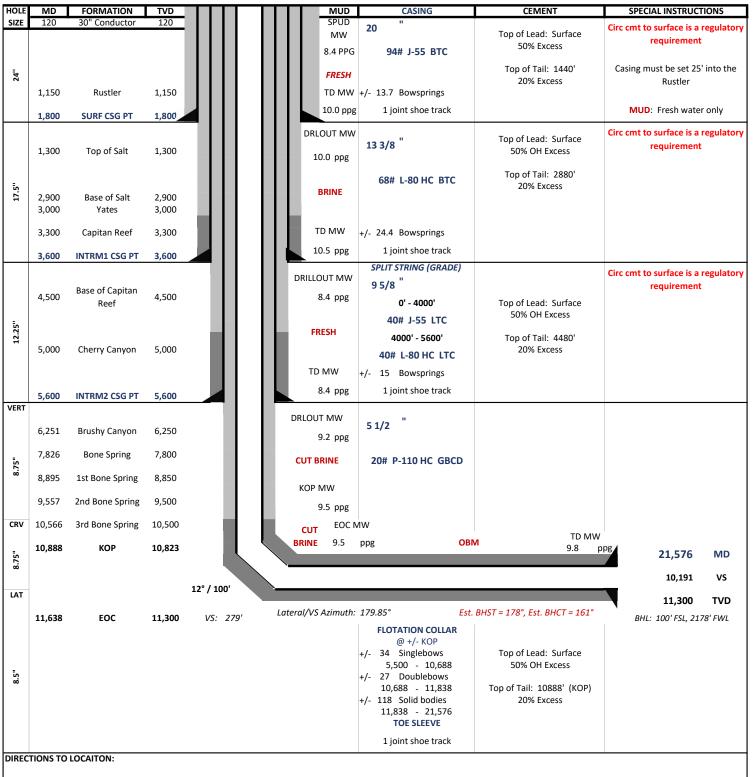
KB: 3602

GL: 3577

SHL:

Sec. 36, T-19S, R-32E; 300 FNL, 1455 FWL

Lat: , Long: (NAD83)



Avant Operating, LLC Case Nos. 22895 and 22896 Exhibit D-1

Braden Harris (406) 600-3310

DATE: 5/25/2022

Released to Imaging: 8/31/2022 8:02:25 AM

API: REGULATORY: BLM

PERMIT#

NATURAL RESOURCES

Cutbow 36 1 Federal Com 602H

Bone Springs

AFE:

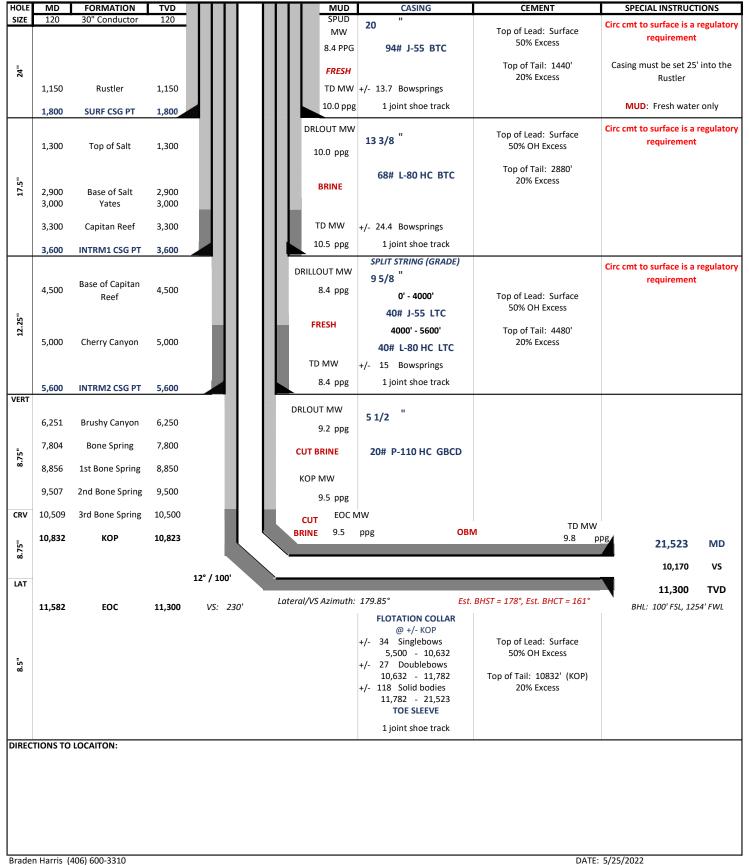
Lea County, NM

RIG:

KB: 3607 GL: 3581 Sec. 36, T-19S, R-32E; 300 FNL, 1422 FWL

Lat: , Long: (NAD83)

SHL:



Released to Imaging: 8/31/2022 8:02:25 AM

REGULATORY: BLM

PERMIT#

Cutbow 36 1 Federal Com 601H

Bone Springs

AFE:

Lea County, NM

RIG:

Sec. 36, T-19S, R-32E; 300 FNL, 1389 FWL KB: 3607 SHL: Lat: , Long: (NAD83) GL: 3582 HOLE MD FORMATION TVD MUD CASING CEMENT SPECIAL INSTRUCTIONS SIZE 120 30" Conductor 120 20 Circ cmt to surface is a regulatory Top of Lead: Surface MW requirement 50% Excess 8.4 PPG 94# J-55 BTC Top of Tail: 1440' Casing must be set 25' into the 24" FRESH 20% Excess Rustler 1,150 TD MW +/- 13.7 Bowsprings 1,150 Rustler MUD: Fresh water only 10.0 ppg 1 joint shoe track 1,800 **SURF CSG PT** 1,800 DRLOUT MW Circ cmt to surface is a regulatory Top of Lead: Surface 13 3/8 " requirement 1,300 Top of Salt 1,300 50% OH Excess 10.0 ppg Top of Tail: 2880' 68# L-80 HC BTC 20% Excess BRINE 2,900 Base of Salt 2,900 3,000 Yates 3,000 TD MW 3,300 Capitan Reef 3,300 +/- 24.4 Bowsprings 10.5 ppg 1 joint shoe track 3,600 INTRM1 CSG PT 3,600 SPLIT STRING (GRADE) Circ cmt to surface is a regulatory DRILLOUT MW 9 5/8 " requirement Base of Capitan 4.500 4.500 8.4 ppg 0' - 4000' Top of Lead: Surface Reef 50% OH Excess 40# J-55 LTC 12.25" **FRESH** 4000' - 5600' Top of Tail: 4480' 5,000 5,000 20% Excess Cherry Canyon 40# L-80 HC LTC TD MW 15 Bowsprings

1 joint shoe track

20# P-110 HC GBCD

FLOTATION COLLAR @ +/- KOP

35 Singlebows 5,500 - 10,768

27 Doublebows

10.768 - 11.918 +/- 118 Solid bodies

> 11,918 - 21,663 TOE SLEEVE 1 joint shoe track

5 1/2

7,852 Bone Spring 7,800 8.75 8,961 1st Bone Spring 8,850 9.636 2nd Bone Spring 9.500 10,646 3rd Bone Spring 10,500 10,968 KOP 10,823

INTRM2 CSG PT

Brushy Canyon

5,600

6.250

5,600

6,251

VERT

8.75

LAT

8.5

12° / 100 11.718 FOC 11,300

Lateral/VS Azimuth: 179.85° VS: 334.47'

8.4 ppg

9.2 ppg

9.5 ppg

9.5

EOC MW

ppg

DRLOUT MW

CUT BRINE

KOP MW

CUT

BRINE

Est. BHST = 178°, Est. BHCT = 161°

OBM

Top of Lead: Surface 50% OH Excess Top of Tail: 10968' (KOP) 20% Excess

TD MW

9.8

DIRECTIONS TO LOCAITON:

DATE: 5/25/2022

MD 21,663 10,226 vs

11,300 TVD BHL: 100' FSL, 330' FWL

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SUPPLEMENTAL SELF-AFFIRMED STATEMENT OF SHELLY ALBRECHT

- 1. I am the Vice President of Land at Avant Operating, LLC ("Avant").
- 2. I previously submitted self-affirmed statements in these matters, which were marked in each case as Avant Exhibit A.
- 3. At the August 18, 2022 hearing, the New Mexico Oil Conservation Division requested that Avant explain the basis for its requested overhead rates of \$10,000 per month during drilling and \$1,000 per month during production. These requested overhead rates are based on the estimated overhead costs that Avant actually expects to incur. Costs have increased significantly over the past two years due to inflation, which has resulted in increased service company costs and increased labor costs. Service company costs have also increased due to demand in the Permian Basin. As a result, these amounts are the same as those included in the Joint Operating Agreement for these units. Based on these facts, it is my opinion that these rates are fair and are comparable to the rates charged by Avant and other operators in the vicinity.
- 4. I understand this Supplemental Self-Affirmed Statement will be used as written testimony in this case. I affirm that my testimony above is true and correct and is made under

Avant Operating, LLC Case Nos. 22895 and 22896 Exhibit E 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.

Shelly Albrecht

Date